MICHIGAN

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607

MICHIGAN



608

TABLE 1.-VALUE OF CONSTRUCTION BUSINESS DURING 1929, AND PRINCIPAL ITEMS OF EXPENDITURE

[Values expressed in thousands]

	ments		OF CONS BUSINE		PRINC	NPAL EX ITURES	KPEND-		ments		OF CONS		PRINC	IPAL EX ITURES	
AREA, CLASSIFICATION OF ES- TABLISHMENTS, AND SIZE OF BUSINESS GROUPS	Number of establishmen	Total	Under general con- tract or di- rectly for owner	Under sub- con- tract	Sub- con- tract work let	Wages paid	Cost of ma- terials	AREA, CLASSIFICATION OF ES- TABLISHMENTS, AND SIZE OF BUSINESS GROUPS	Number of establishments	Total	Under general con- tract or di- rectly for owner	Under sub- con- tract	Sub- con- tract work let	Wages paid	Cost of ma- torials
	1, 501	\$329, 380	\$242, 419	\$86, 961	\$76, 3 87	875, 578	\$115, 481	MICHIGAN-Continued							
Counties and principal cities								Classification of estab- lishments-Continued							
Counties: BaryBaryBaryBaryBaryBerrien	$\begin{array}{c} 4\\ 4\\ 72\\ 3\\ 4\\ 4\\ 7\\ 7\\ 4\\ 4\\ 6\\ 5\\ 411\\ 400\\ 1366\\ 7\\ 12\\ 233\\ 87\\ 3\\ 212\\ 233\\ 87\\ 3\\ 212\\ 422\\ 122\\ 122\\ 5\\ 5\\ 3\\ 3\\ 36\\ 87\\ 3\\ 3\\ 36\\ 36\\ 87\\ 3\\ 36\\ 36\\ 36\\ 36\\ 36\\ 36\\ 36\\ 36\\ 36\\$	$\begin{array}{c} 685\\ 307\\ 1, 725\\ 2, 205\\ 11, 950\\ 318\\ 18, 513\\ 0, 164\\ 1, 079\\ 570\\ 200\\ 319\\ 258\\ 3, 225\\ 225, 471\end{array}$	$\begin{array}{c} 422\\ 204\\ 6,538\\ 407\\ 5,68\\ 11,401\\ 443\\ 443\\ 443\\ 443\\ 443\\ 443\\ 447\\ 1,766\\ 9,748\\ 29\\ 77\\ 8,810\\ 77\\ 9,77\\ 483\\ 177\\ 311\\ 258\\ 2,500\\ 169,45\\ 2,500\\ 169,45\\ 2,500\\ 169,45\\ 2,500\\ 169,45\\ 2,500\\ 169,45\\ 2,500\\ 109,45\\ 2,500\\ 109,45\\ 2,500\\ 109,45\\ 2,500\\ 109,45\\ 2,500\\ 109,45\\ 2,500\\ 109,45\\ 2,500\\ 109,45\\ 2,500\\ 109,45\\ 2,500\\ 109,45\\ 2,500\\ 109,45\\ 2,500\\ 109,45\\ 2,500\\ 109,45\\ 2,500\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ $	$\begin{array}{c} 126\\ \hline \\783\\ \hline \\ 783\\ \hline \\78\\78\\$	$\begin{array}{c} 17\\ 26\\ 36\\ 1,654\\ 1,654\\ 1,822\\ 1,822\\ 2,601\\ 1,622\\ 2,601\\ 1,622\\ 2,601\\ 1,622\\ 2,601\\ 1,622\\ 2,603\\ 1,622\\ 2,603\\ 1,622\\ 3,16\\ 2,603\\ 1,622\\ 3,162\\ 1,622\\ 3,162\\ 3$	$ \begin{array}{c} 607\\ 611\\ 718\\ 131\\ 105\\ 2,022\\ 8\\ 8\\ 8\\ 1,666\\ 3\\ 1127\\ 2,022\\ 8\\ 8\\ 128\\ 8\\ 2\\ 8\\ 8\\ 2\\ 8\\ 8\\ 2\\ 8\\ 8\\ 2\\ 8\\ 8\\ 2\\ 8\\ 8\\ 2\\ 8\\ 8\\ 2\\ 8\\ 8\\ 2\\ 8\\ 8\\ 2\\ 8\\ 16\\ 6\\ 6\\ 1\\ 7\\ 10\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12$	$\begin{array}{c} 799\\ 431\\ 1, 308\\ 60\\ 167\\ 149\\ 3, 909\\ 3, 909\\ 3, 220\\ 1133\\ 2, 899\\ 2238\\ 1, 631\\ 2, 893\\ 3, 238\\ 3, 1, 63\\ 2, 323\\ 4, 184\\ 3, 2, 383\\ 5, 415\\ 2, 222\\ 476\\ 320\\ 109\\ 716\\ 893\\ 3, 5, 415\\ 2, 327\\ 4, 184\\ 3, 73\\ 109\\ 716\\ 3, 2, 367\\ 73, 744\\ 420\\ 138\\ 4, 1054\\ 73, 744\\ 3, 890\\ \end{array}$	Subcontractors—Continued. Roofing and sheet-metal Work. Roofing	92 50 18 24 13 7 7 2 6 5 5 7 8 2 100 0 6 5 5 7 8 3 13 14 6 5 7 10 13 13 14 16 5 11 12 08 20 3 11 10 10 10 10 10 10 10 10 10 10 10 10	$ \begin{array}{c} 4, 709 \\ 2, 790 \\ 2, 552 \\ 12, 743 \\ 1, 680 \\ 2, 552 \\ 12, 743 \\ 1, 680 \\ 2, 102 \\ 210 \\ 80 \\ 1, 251 \\ 2, 102 \\ 2, 102 \\ 2, 102 \\ 2, 102 \\ 1, 251 \\ 2, 102 \\ 2, 102 \\ 1, 251 \\ 2, 102 \\ 2, 102 \\ 1, 251 \\ 2, 102 \\ 2, 102 \\ 1, 251 \\ 2, 102 \\ 2, 102 \\ 1, 251 \\ 2, 102 \\ 2, 102 \\ 1, 251 \\ 2, 102 \\ 2, 102 \\ 1, 251 \\ 2, 102 \\ 2, 102 \\ 1, 251 \\ 2, 102 \\ 2, 102 \\ 1, 251 \\ 2, 102 \\ 2, 102 \\ 1, 251 \\ 2, 102 \\ 1, 251 \\ 2, 102 \\ 1, 251 \\ 2, 102 \\ 1, 251 \\ 2, 102 \\ 1, 251 \\ 2, 102 \\ 1, 251 \\ 2, 102 \\ 1, 251 \\ 2, 102 \\ 1, 251 \\ 2, 102 \\ 1, 251 \\ 2, 102 \\ 1, 251 \\ 2, 102 \\ 1, 251 \\ 2, 102 \\ 1, 251 \\ 2, 102 \\ 1, 251 \\ 2, 102 \\ 1, 251 \\ 2, 102 \\ 1, 251 \\ 2, 102 \\ 1, 251 \\ 1, 251 \\ 2, 102 \\ 1, 251 \\ 1, 251 \\ 2, 102 \\ 1, 251 \\ 1, 251 \\ 2, 102 \\ 1, 251 \\ 1, 251 \\ 2, 102 \\ 1, 251 \\ $	$\begin{array}{c} 1, 838\\ 1, 432\\ 640\\ 4, 064\\ 48\\ 885\\ 265\\ 265\\ 205\\ 33\\ 3344\\ 66\\ 207, 577\\ 6, 574\\ 18, 777\\ 26, 708\\ 38, 706\\ 36, 911\\ 84, 751\\ 149, 33\\ 36, 006\\ 36, 911\\ 84, 751\\ 149, 33\\ 5, 006\\ 36, 911\\ 21, 022\\ 5, 08\\ 26, 300\\ 61, 411\\ 34, 843\\ 3, 54\\ 5, 900\\ 38, 855\\ 81\\ 5, 900\\ 38, 855\\ 81\\ 5, 900\\ 38, 855\\ 81\\ 5, 900$	$ \begin{array}{c} 1,358\\ 1,912\\ 8,659\\ 2,800\\ 2,800\\ 2,800\\ 2,800\\ 2,800\\ 2,800\\ 2,800\\ 2,800\\ 2,800\\ 3,800\\ 1,400\\ 1,200\\ 1,200\\ 1,400\\ 1,200\\ 1$	$\begin{array}{c} 6\\ 4\\ 1\\ 1544\\ 939\\ 2c5\\ 98\\20\\$	$\begin{array}{c} 330\\ 1,106\\ 504\\ 876\\ 504\\ 876\\ 140\\ 140\\ 140\\ 140\\ 140\\ 140\\ 140\\ 140$	$\begin{array}{c} 632\\ 1, 467\\ 539\\ 220\\ 239\\ 1, 441\\ 296\\ 2, 214\\ 2, 296\\ 2, 214\\ 2, 296\\ 2, 214\\ 2, 214\\ 4, 289\\ 2, 214\\ 2, 246\\ 2, 214\\ 10, 109\\ 23, 492\\ 41, 648\\ 5, 3, 360\\ 6, 050\\ 6, 050\\ 6, 050\\ 6, 050\\ 6, 055\\ 5, 150\\ 0, 6, 55, 150\\ 0, 4, 222\\ 7, 374\\ 6, 798\\ \end{array}$
Detroit Flint Grand Rapids	681 70 133	9,240	6, 76	50, 873 2, 470 3, 480	59,96 1,65 2,59	1 46, 936 2, 008 3 3, 673	5 3,937	\$200,000 to \$499,999 \$500,000 to \$999,999 \$1,000,000 and over DETROIT		15, 359	5, 680 9, 739) 9, 679 30, 185	78 12	3,660 8,271	5 8, 272 18, 893
Classification of estab- lishments							0.040	Classification of estab- lishments							
Operative builders			1	4 7 9 41	8, 76 1 65, 18			Operative builders	67	12, 539	12, 539	9			
General contractors. Building Building not specialized. Commercial building only	485 306	134, 822 113, 974		0 661	3 56, 74 47, 75	3 25, 768 23, 20	3 37, 805 7 31, 649	General contractors. Building Building not specialized. Commercial building	256 200 110	0 92,732 79,891	92, 23 79, 30	2, 738 2 500 1 500	1	7 27, 23 6, 16, 28 8 15, 06 0 22	1.11
Manufacturing building only	155 7(10 11 30 31 4 11	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5 1 28 2 2 6 4 9 98 5 8 9 98 5 8 9 10 0 1, 12	$\begin{array}{c} 8,43\\ 7 4,133\\ 4\\ 2 13\\ 7 3,14\\ 9 55\\ 1\\ 9 16\\ 9 14\\ 9 14\\ \end{array}$	7 2,090 8 3,74 5 30 2 34 3 3,63 8 6,31 5 16 9 75 0 1,31	0 5,482 1 4,407 1 265 4 108 5 5,692 4 5,544 79 79 5 1,384 8 493	only Residential building only Street paving Street paving Sewer, gas, water, conduit Waterworks, dam, and reservoirs, dam, and reservoirs, dam, and condation Other classes ¹¹ Subcontractors Carpentering and wood	8 1 2	5,641 11,599 13,913 1,745 1,226 1,226 2,56 2,268 3,258	11, 77 5, 62 10, 63 13, 82 1, 74 1, 22 88 1, 47	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c} 6, 16\\ 3, 24\\ 2, 82\\ 0 52\\ 17\\ 2\\ 3 2, 03\\ \end{array} $	8 98 7 65 3 2, 35 1 5, 84 1 50 1 52 8 22 8 22 8 22 8 20 8 0 10, 09	6 2, 806 1 617 1 3, 853 4 4, 802 5 786 1 170 1 355 4 42 0 30, 664
Railroad Other classes ⁶	71° 11 10 29 6 13 13 9 34 4 1	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 1, 48\\ 7 & 1, 13\\ 8 & 34, 84\\ 4 & 422\\ 9 & 200\\ 5 & 5, 59\\ 7 & 38\\ 8 & 13, 94\\ 5 & 4, 07\\ 9 & 3, 98\\ 3 & 5, 39\\ 3 & 5, 39\\ 3 & 5, 39\\ 3 & 5, 11\\ 1, 13\\ 0 & 1,$	7 8 8 83, 55 0 2, 29 5 1, 17 2 7, 21 2 7, 22 7 22 7 22, 13 9 8, 42 8 4, 48 8 9 9 3, 72 9 1, 98	0 2, 48 4 23 4 1 3 55 5 12 0 97 7 11 0 29 8 54 5 2 7 16 7 16 7 12 8 54 9 7 16 7 12 8 54 9 7 16 7 12 9 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7 16	$egin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	flooring Concreting Elevatior construction Heating and plumbing Plumbing Plumbing Plumbing Plumbing Masonry Painting and decorating ? Glass and glazing Plastering and lathing Roofing Sheet-metal work Roofing Sheet-metal work Roofing	5 11 3 5 2 2 2 2 2 1 1 3 1	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	54,043,087,022,182,402,43438142,245641,33	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{ccccccccccccccccccccccccccccccccc$	$\begin{array}{c} - & 44 \\ 3, 000 \\ 6 & 321 \\ 1, 4, 022 \\ 2 & 1, 36 \\ 7 & 1, 77 \\ 2 & 80 \\ 8 & 1, 52 \\ 22 & 1, 16 \\ 72 & 21 \\ 00 & 90 \\ - & 1, 75 \\ - & 76 \\ - & 76 \end{array}$	$\begin{array}{c} 4 \\ 223 \\ 0 \\ 3, 847 \\ 4 \\ 2, 121 \\ 6 \\ 10, 132 \\ 3, 629 \\ 2 \\ 4, 157 \\ 0 \\ 2 \\ 4, 157 \\ 0 \\ 2 \\ 3, 629 \\ 2 \\ 4, 157 \\ 0 \\ 2 \\ 3, 629 \\ 2 \\ 4, 157 \\ 0 \\ 2 \\ 3, 629 \\ 2 \\ 4, 157 \\ 0 \\ 2 \\ 3, 629 \\ 2 \\ 4, 157 \\ 0 \\ 2 \\ 3, 629 \\ 2 \\ 4, 157 \\ 0 \\ 2 \\ 3, 629 \\ 1, 167 \\ 0 \\ 394 \\ 2 \\ 2 \\ 509 \\ 1, 167 \\ 0 \\ 394 \\ 2 \\ 509 \\ 1, 167 \\ 0 \\ 394 \\ 2 \\ 509 \\ 1, 167 \\ 0 \\ 394 \\ 2 \\ 509 \\ 1, 167 \\ 0 \\ 394 \\ 2 \\ 1, 167 \\ 0 \\ 394 \\ 2 \\ 1, 167 \\ 0 \\ 394 \\ 2 \\ 1, 167 \\ 0 \\ 394 \\ 1, 167 \\ 0 \\ 394 \\ 2 \\ 1, 167 \\ 0 \\ 394 \\ 1, 167 \\ 0 \\ 394 \\ 1, 167 \\ 0 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10$

See footnotes at end of table.

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TABLE 1.-VALUE OF CONSTRUCTION BUSINESS DURING 1929, AND PRINCIPAL ITEMS OF EXPENDITURE-Continued

[Values expressed in thousands]

	iments		OF CONS		PRINC	IPAL EJ ITURE			uments		OF CONS N BUSINE		PRINC	IPAL EI ITURES	CPEND-
AREA, CLASSIFICATION OF ES- TABLISHMENTS, AND SIZE OF BUSINESS GROUPS	Number of establishments	Total	Under general con- tract or di- rectly for owner	Under sub- con- tract	Sub- con- tract work let	Wages paid	Cost of ma- terials	AREA, CLASSIFICATION OF ES- TABLISHMENTS, AND SIZE OF BUSINESS GROUPS	Number of establishments	Total	Under general con- tract or di- rectly for owner	Under sub- con- tract	Sub- con- tract work let	Wages paid	Cost of ma- terials
DETROIT-Continued								FLINT-Continued						-	
Classification of estab- lishmenis—Continued								Size of business groups- Continued							
Subcontractors—Continued. Steel erection Stonework Marble and tiling Draamental from Soundproofing Metal work, n. e. s	5 6 3 3	$1,219 \\ 2,888 \\ 699 \\ 2,162 \\ 534 \\ 4,533$	48 867 35 3, 290	$ \begin{array}{c} 1, 171 \\ 2, 021 \\ 664 \\ 2, 162 \\ 534 \\ 1, 243 \end{array} $	\$82 93 24 94 1	834 168 876 140 1,491		General contractors—Cond. Building contractors * \$25,000 to \$49,999 \$50,000 to \$49,999 \$100,000 to \$499,999 \$200,000 to \$499,999 \$500,000 to \$999,999 \$1,000,000 and over	31 8 6 6 3	\$5, 661 284 571 852 2, 215 1, 739	1,739		\$1, 598 32 137 245 402 782	72 118 152 517 244	
Other classes ^k	. 3	1, 251	67	1, 184	202	432	296	Subcontractors \$25,000 to \$49,909	37 8 17	$3,411 \\ 275 \\ 1,106$	1,002 99 228	176	36 3 15	54	1,708 149 474
General contractors	47	1,808 4,963	140, 188 1, 787 4, 946	21	867 2, 353	279 660	36, 919 466 1, 219 2, 287	\$50,000 to \$99,999 \$100,000 to \$199,999 \$200,000 to \$499,990 \$500,000 to \$499,990 \$500,000 to \$999,990 \$1,000,000 and over	9 3	1, 112 918	219 456	893	18 		479
\$50,000 to \$99,999. \$100,000 to \$199,999. \$200,000 to \$199,999. \$500,000 to \$499,999. \$500,000 to \$999,999. \$1,000,000 and over	76 67 30 26	10, 628 20, 396 26, 285 78, 843	10, 550 20, 022 25, 541 77, 342	374 744	9, 384 9, 591	2,808 5,531	2, 287 4, 989 6, 831 21, 125	GRAND RAPIDS Classification of estab- lishments	133	14, 846	11, 188	3, 480	2, 593	3, 673	<u>ð, 287</u>
Building contractors • \$25,000 to \$49,999 \$50,000 to \$99,099 \$100,000 to \$199,900 \$220,000 to \$199,900 \$500,000 to \$499,999 \$1,009,000 and over	59	18,403	1, 634 4, 300 9, 480 15, 878 18, 255	28 310 148	864 2, 341 5, 529 9, 074	230 401 785 1, 801 2, 881	26, 293 415 1, 022 1, 968 3, 189 4, 175 15, 524	Goneral contractors ⁹ Building Residential building only Highway and grading Street paving Other classes ¹⁴	14	9, 792 7, 087 6, 031 1, 056 1, 164 869 672	9,717 7,080 6,024 1,056 1,097 869 672	7 7 67	2, 564 2, 452 2, 073 379 20 92	1, 559 1, 414 145 425	1,960 873 235 351
Subcontractors. \$25,000 to \$49,999. \$50,000 to \$199,999. \$100,000 to \$199,999. \$200,000 to \$199,999 \$500,000 to \$499,999 \$500,000 to \$409,999	858 94 104 74 57 20 9	3, 864 7, 347 10, 628 17, 163 12, 811	850 1,852 1,745 4,843 4,630	5, 495 8, 883 12, 320 8, 181	2, 030 52 188 298 793 642 57	1,043 2,108 3,404 4,524 3,191	$\begin{array}{c} 30,664\\ 1,402\\ 3,213\\ 4,244\\ 7,453\\ 6,853\\ 7,411 \end{array}$	Subcontractors. Electrical Heating and plumbing Heating and piping ¹⁵ Plumbing. Masoury Painting and decorating	67 11	4, 854 576 2, 024 1, 503 521 133 298	$1, 449 \\112 \\926 \\639 \\287 \\14 \\200$	464 1,098 863 235 119	11 	136 397	2, 084 293 1, 070 819 251 62 99
FLINT	70	9, 240	6, 765	2, 475	1, 654	2, 005	3, 937	Roofing and sheet-metal work. Marble, tiling, and plaster-	6	484	96	388		132	178
Classification of estab- lishments	. 4	670	670		65	137	843	Excavating and grading Metal work, n. e. s. ¹⁶	63333	610 374 217 139	10 29 56	345	8	102 102	252 66 65
General contractors 12			1					Other classes ¹⁷	3			105	·		- -
Subcontractors Electrical. Heating and plumbing Heating and piping Plumbing. Plumbing and heating combined.	18 18 3	350 1,566 219 809	201 442 81 128	149 1, 124 138 681	36 8 3 5	87 375 29		General contractors 9	66 18 19 20 6 2 1	9, 792 653 1, 379 2, 810 1, 863 1, 658 1, 429	9, 717 646 1, 375 2, 780 1, 863 1, 625 1, 429	7 4 30 	187 313 704 350	123 322 642 472 492	258 509 976 675 495
Roofing and sheet-motal work. Marble, tiling, and plaster- ing. Other classes ¹² . Size of business groups	6 3 5	468	170	298 247	1 14	101 91	178 93 400	Building contractors * \$25,000 to \$49,999 \$50,000 to \$49,999 \$100,000 to \$199,909 \$200,000 to \$499,999 \$500,000 to \$499,999 \$1,000,000 and over	51 17 15 13 4 1 1	7,087 615 1,043 1,935 1,095 970 1,429	608 1,043 1,935 1,095	7	2, 452 187 303 633 329 450 550	111 219 328 322 256 323	235 425 722 291 370 290
General contractors ⁶ \$28,000 to \$49,999 \$50,000 to \$99,999 \$100,000 to \$199,999 \$200,000 to \$499,999 \$500,000 to \$99,99 \$1,000,000 and over	33 8 10 6 3	5, 820 284 739 852 2, 215 1, 730	233 724 852 2, 215	51 15	1, 618 32 157 245 402 782	72 164 152 516	136 276 311 1,003	Subcontractors \$25,000 to \$49,999 \$50,000 to \$90,099 \$100,000 to \$109,999 \$200,000 to \$409,909 \$600,000 to \$499,009 \$1,000,000 and over	67 37 17 9 4	4, 854 1, 264 1, 149 1, 387 1, 056	1, 449 385 599 465	3, 405 879 550		1, 300 342 348 353 257	523 683

Includes Alger, Aremae, Cass, Charlevoix, Cheboygan, Clinton, Emmet, Gratiot, Hillsdale, Huron, Ionia, Lapeer, Livingston, Manistee, Mason, Mecosta, Midland, Montealm, Ontonagon, Samlao, and Wexford, for which data can not be shown separately without revealing individual operations. From areas other than those listed no reports were received.
Figures are included in respective county totals.
Includes vehicular subway and tunnel.
Includes vehicular station, light and power plant; and foundations.
Includes opentral station, light and power plant; and foundations.
Includes pipe covering and automatic temperature control.
Includes pointing, miscellaneous, n. e. s.
Includes practive builders.
Includes planting; and decorating; steel erection; and conduit.
Includes planting and decorating; steel erection; and grading.
Includes steel erection.
Includes steel erection.
Includes carpentering and wood flooring; and glass and glazing

TABLE 2.—CONSTRUCTION BUSINESS OF REPORTING ESTABLISHMENTS DURING 1929, BY CLASS OF OWNERSHIP AND BY TYPE OF WORK

		CONSTRUCTIO	N BU	SINESS REPO	RTE	D RY-			CONSTRUCTION	N BU	SINESS REPO	RTEL	BY-
CLASS OF OWNERSHIP AND TYPE	A11 esta	classes of blishments		General atractors 1	Sut	ocontractors	CLASS OF OWNERSHIP AND TYPE	Allesta	classes of blishments		General ntractors 1		ubcon- ractors
OF CONSTRUCTION WORK	Number reporting	Value	Number	Valuo	Number	Value	OF CONSTRUCTION WORK	Number reporting	Value	Number reporting	Value	Number reporting	Value
MICHIGAN All construction business Distribution not reported	1, 501 76	\$329, 380, 194 9, 103, 347	14	<u>_</u>	62	4, 673, 132	MICHIGAN—Continued All business under subcon- tract—Continued. Distributed by class of sub-						
Distributed by class of owner- ship	503	234, 710, 262 14, 556, 290 71, 010, 295			657 643 177 213 30	$\begin{array}{c} 113,724,715\\97,728,743\\5,560,650\\10,429,322\\1,170,209\end{array}$	tract—Continued. Distributed by class of sub- contract work—Contd. Stonework. Marble and tiling. Wrecking Excevating High way.	12 30 2 33 11 3	<pre>} 1, 589, 123 2, 343, 813</pre>	; {	(2)	30 2	(2)
Distributed by class of public ownership Federal	32 131 199	2, 157, 746 10, 041, 959 11, 847, 880	113	1, 934, 912 9, 105, 024 10, 345, 140	183 16 39 80 143	222, 834 936, 935 1, 502, 740	Bridge and culvert. Grading Street paving Street paving Sewer, gas, water, conduit. Dredging, river, harbor, etc Soundproofing Foundation	3 3 5 4 5 3 4 5 3 4 5	354, 466	3	(²) 998, 720		174,772
All business under general con- tract or directly for owners Distribution not reported	1, 111		[[207, 571, 190 966, 216	329 1		Metal work, n. e. s Rental of equipment, truck- ing, etc Flooring, n. e. s Other classes 4		1, 547, 639 133, 534 192, 325	2	(3)	5 1 4	1, 547, 639 (2) 192, 325
Distributed by class Building Distribution not reported Distributed by class of	1, 108 911 69	241, 433, 402 182, 496, 540 11, 510, 489	780 591 28	3, 384, 843	·/	34, 039, 449 8, 125, 646	DETROIT All construction business	681	212, 223, 380		142, 923, 693		
building Commercial Educational Hotel Hospital and institu-	42	42, 727, 347 16, 434, 646 1, 122, 471	242 96 14	38, 861, 696 14, 693, 366 1, 007, 522			Distribution not reported Distributed by class of ownership Private Quasi public or community.	660	208, 134, 863	320 280	140, 694, 267 99, 691, 898	'	67, 440, 596 57, 389, 793
tional Manufacturing Military and naval Public: Courts, jails, etc. Religious and memorial. Residential	92 191 7 59 125 654	34, 389, 782 35, 044 889, 357 4, 850, 083	41 108 5 28 61 443	667,753	1 21	7, 680, 337 256, 648 578, 060 7, 643, 224	Public. Distribution not reported. Distributed by class of public ownership. Federal.	165	41, 848, 581 3, 227, 480	6			5, 596, 519
Social and recreational Air transport Rail and water trans- portation Miscellancous	90 20 14			3, 008, 847 408, 093	8 59	230, 345 599, 224 149, 414 '2, 473, 686	State County or township Municipal	$ \begin{array}{r} 15 \\ 22 \\ 65 \\ 142 \end{array} $	4, 375, 962	78 5 27 67	3, 545, 406	10 17 38 75	559.248
Highway and street Railroad and car line Public works and utilities Distribution not reported.	153	1, 692, 239 28, 838, 871	120 13 134 134	28, 132, 280 28, 433, 522 769, 566	19		All business under general contractor directly for own- ers Distribution not reported		161, 350, 393 39, 506	1			
Distributed by class Bridge, tunnel, etc Central station, light and power plant Dock, pier, retaining	152 40	5, 350, 333			3	50, 478	Distributed by class Building Distribution not reported Distributed by class of	452 400 29	124, 833, 021	322 273 13	140, 148, 778 104, 056, 413 2, 058, 318	130 127 16	21, 162, 109 20, 776, 608 6, 445, 979
wall, etc Flood control, irrigation, and land drainage Refuse-disposal plant	14	908, 283 127, 455	12	908, 283	 1 2	(2) (2)	Commercial Educational Hotel Hospital and institu-	371 132 53 10	30, 338, 962 10, 602, 973 126, 017	2	101, 998, 095 27, 846, 944 9, 561, 809 3, 350, 081	8	376, 357
Park, grounds, etc. River and harbor im- provement. Sewage disposal and drainage. Water supply. Miscellaneous.	60	1, 852, 602	7	1, 852, 602 (²) 4, 112, 829			tional. Manufacturing. Public: Courts, jails, etc. Religious and memorial. Residential. Social and recreational.	79 16 52 277	593, 965 3, 077, 682 34, 344, 262	13 42 7 24 205 18 4	$\begin{array}{c} 22,533,772\\ 447,110\\ 2,662,532\\ 31,645,830\end{array}$	l 22 37	5, 220, 323 146, 855 415, 150 2, 698, 432 143, 917
Air transport Miscellancous, n. e. s. ² All business under subcontract	28 649	144, 926 1, 730, 565 86, 961, 031		144, 926 1, 437, 164 3, 411, 148	8		Air transport Rail and water transpor- tation Miscellaneous Highway and street	. 8	346, 540 2, 804, 827		252, 407 1, 150, 135		47, 588 94, 133 1, 654, 692
Distribution not reported Distributed by class of sub- contract work Carpentering and wood		85, 835, 411	65		1		Public works and utilities Bridge, tunnel, etc Central station, light and power plant	58 14	22, 165, 521 4, 275, 211 2, 413, 906	11	() 	- 4	260, 117 (²) 218, 256
Concreting Concreting Electrical Elevator construction Heating and plumbing	- 3) 1, 800, 683 1 7, 131, 983	10 18	427, 210 134, 423	8 21 91 3	1, 666, 260 7, 131, 983 2, 604, 510	Dock, pier, retaining wall, etc. Flood control, irrigation, and hand drainage. Parks, grounds, etc. River and, harbor im-	5	506, 283	52	506, 283	ī	
Heating and piping 4 Pipe covering Plumbing Plumbing and heating	- 15 - 26 - 150			(1)	154 26 154	4 23, 252, 230 5 513, 819 4 (²)	River and harbor im- provement Sewage disposal and drainage Water supply Railroad and car line	. 2	9, 957, 359 3, 015, 113	29 12) 1, 430, 907 9, 957, 359 (²)	l	 (2) (2)
combined Automatic sprinkler sys- tems Painting and decorating Glass and glazing Plastering and lathing Roofing and sheet-metal	- 40	3 13, 215 3, 120, 942 1, 929, 584		137, 893 13, 345	$\begin{cases} 29 \\ 27 \\ 12 \\ 24 \\ 24 \end{cases}$	5, 637, 405	Air transport work. Miscellaneous, n. e. s All business under subcon- tract. Distribution not reported	12	1, 148, 689	24	(*)	1 <u>7</u>	(?) 48, 137, 578
work Roofing Sheet-metal work Roofing and sheet metal	5	7, 583, 671 3, 262, 151 9 2, 915, 648	3	(2) (2)	4	(²) (³) 2, 915, 648 1, 405, 872	Distributed by class of sub- contract work Carpentering and wood flooring	- 22 16	2, 565, 295 1, 492, 557	1.	2, 735, 40 359, 50 3 22, 66	1	47, 446, 225 2, 205, 792 1, 409, 893 5, 278, 441
combined Steel erection See footnotes at end o	1 1	8, 936, 606	3	13, 54		6, 923, 057	Electrical	- 48	5, 278, 441	Ji		_; 40	n 0,278,441

See footnotes at end of table.

- Statistics

TABLE 2.—CONSTRUCTION BUSINESS OF REPORTING ESTABLISHMENTS DURING 1929, BY CLASS OF OWNERSHIP AND BY TYPE OF WORK—Continued

	. (ONSTRUCTIO	N BUS	SINESS REPO	RTE	D BY		(CONSTRUCTIO	N BUS	SINESS REPO	RTEI) BY
CLASS OF OWNERSHIP AND TYPE OF CONSTRUCTION WORK		classes of plishments		leneral ntractors	Sub	contractors	CLASS OF OWNERSHIF AND TYPE OF CONSTRUCTION WORK	All esta	classes of blishments		Jeneral ntractors		Subcon- tractors
	Number reporting	Value	Number reporting	Value	Number	Value		Number reporting	Value	Number	Value	Number	Value
DETROIT—Continued All business under subcon- trach—Continued. Distributed by class of sub- contract work—Contd. Elevator construction	3	492, 993 4, 379, 453 1, 285, 413 2, 855, 490 1, 524, 222 1, 065, 242 1, 867, 080 5, 250, 307 2, 038, 048 2, 102, 305 1, 060, 044 2, 900, 501 1, 134, 650 2, 167, 561 3, 806, 064 2, 340, 610 112, 504 9, 398, 722 354, 466 720, 782 1, 316, 732 9, 239, 954 712, 712 5, 527, 244 7, 434, 451 16, 000 5, 576, 991 16, 000 1, 206, 07- 5,	 	(2) (2) (3) (3) (4) (5) (7) (7) (7) (7) (7) (7) (7) (7	$\begin{array}{c} 3\\ 3\\ -\hline 5\\ 17\\ 66\\ 13\\ 20\\ 9\\ 14\\ -\hline 22\\ 27\\ 8\\ 9\\ 8\\ 201\\ 1-\\ -22\\ 27\\ 8\\ 9\\ 8\\ 201\\ 1-\\ -22\\ 27\\ 8\\ 9\\ 8\\ 201\\ 1-\\ -22\\ 27\\ 8\\ 14\\ 22\\ 8\\ 14\\ 14\\ 14\\ 14\\ 14\\ 14\\ 14\\ 14\\ 14\\ 14$	4, 747, 062 402, 923 (*) 1, 285, 413 2, 773, 458 1, 524, 222 1, 065, 242 1, 065, 242 1, 065, 242 1, 060, 524 2, 088, 018 2, 102, 305 1, 060, 044 2, 960, 591 1, 134, 056 (*) 1, 344, 056 (*) 1, 344, 056 (*) 1, 344, 056 (*) 1, 344, 056 (*) 1, 344, 056 (*) 1, 344, 056 (*) 1, 547, 039 102, 325 342, 978 3, 411, 330 5, 250, 377 360, 350 15, 000 15, 00	FLINT—Continued All business under subcon- tract—Continued. Electrical	$\begin{array}{c} 5\\ 5\\ 13\\ 12\\ 3\\ 4\\ 4\\ 5\\ 133\\ 0\\ 127\\ 112\\ 122\\ 127\\ 112\\ 29\\ 48\\ 4\\ 4\\ 4\\ 4\\ 4\\ 4\\ 20\\ 100\\ 15\\ 59\\ 98\\ 81\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 1$	195, 529 33, 000 298, 103 252, 273 571, 912 14, 645, 053 423, 242 14, 222, 711 9, 652, 348 583, 710 3, 986, 653 3, 505, 620 1, 059, 642 1, 059, 642 1, 792, 042 8, 11, 707 683, 340 7, 728, 361 2, 197, 316 672, 241 3, 67, 262 1, 078, 554 2, 197, 316 672, 241 367, 262 1, 078, 554 322, 944 2, 197, 316 672, 241 367, 262 1, 078, 554 322, 944 2, 488, 907 2, 202, 853 3, 480, 111 2, 202, 853 3, 458, 111 131, 144 141, 974 433, 511 131, 140, 974 431, 511 140, 974 1414, 34	$\begin{array}{c}$	(2) (3) (4) (4) (4) (5) (4) (5) (5) (5) (5) (5) (5) (5) (5	5 13 12 3 11 5 3 5 67 61 61 61 61 222 233 1 222 4 4 8 15 329 60 23 31 1 1 5 329 60 23 31 1 1 5 329 60 23 31 1 1 1 5 329 133 329 133 329 133 329 133 329 133 329 133 329 133 329 133 329 133 329 133 329 133 135	66,601 457,719 1,449,037 327,425 955,150 181,143 42,023 195,5150 198,969 22,277 444,124 (2) 108,969 22,277 444,124 (2) 3,405,384 (2) 3,833,884 (3) (403,898 1,055,065 744,042 308,423 79,000 140,070 141,4348
All business under subcontract Carpentering and wood floor- ing Concreting	. 8		3 3	24, 90	0	3 2, 409, 039 1 (²)	Marble, tilling, and plaster- ing Excavating Other classes ¹⁴		600, 79 3 367, 88 3 189, 84	23	(2)	- 5	600, 792 (2) 189, 844

¹ Includes operative builders.
¹ Value omlited in order to avoid disclosing individual operations. The amounts omlited are, however, included in the respective totals.
⁴ Includes 2 general contracting establishments engaged in water-power development work.
⁴ Includes 1 subcontracting establishments engaged in automatic temperature control.
⁴ Includes 1 subcontractors—Power-plant work, 1; and miscellaneous, n. e. s., 2.
⁴ Includes establishments engaged in the following types of work: General contractors—Street paving, 2; rental of equipment, trucking, etc., 1; vehicular subway and tunnel, 1. Subcontractors—Power-plant work; 1; ental of equipment, trucking, etc., 1; vehicular subway and tunnel, 1. Subcontractors—Power-plant work; 1; rental of equipment, trucking, etc., 1; and miscellaneous, n. e. s., 2.
⁴ Includes establishments engaged in the following types of work: General contractors—Street paving, 2; rental of equipment, trucking, etc., 1; vehicular subway and tunnel, 1. Subcontractors—Power-plant work; 1; rental of equipment, trucking, etc., 1; and miscellaneous, unclassified, 3. Subcontractors—Public: Courts, jalls, etc., 1; social and recreational and rail and water transportation, 1; and miscellaneous, unclassified, 3. Subcontractors—Public: Courts, jalls, etc., 1; or lincludes establishments engaged in the following types of work: General contractors—Water supply and sewage disposal and drainage, 1.
⁴ Includes establishments engaged in the following types of work: General contractors—Alter support, 1; miscellaneous, n. e. s., 4.
⁴ Includes establishments engaged in the following types of work: General contractors—Alter support, 1; miscellaneous, n. e. s., 4. Subcontractors—Pawer-plant work, 1; and sewage disposal and drainage, 1.
⁴ Includes establishments engaged in the following types of work: General contractors—Alter support, 1; miscellaneous, n. e. s., 4. Subcontractors—Rail and water trans

TABLE 6.-VALUE OF CONSTRUCTION EQUIPMENT, IN COMPARISON WITH CONSTRUCTION BUSINESS AND WAGES PAID DURING 1929-Continued

	ents	Eq	uipment	Value of			ents	Equ	ipment	Value of	
CLASSIFICATION OF ESTABLISH- MENTS AND PERCENTAGE OF EQUIPMENT OWNED	Establishments reporting	Pur- chased during the year	Inventory value at end of year	construc- tion busi- ness re- ported	Wages paid	CLASSIFICATION OF ESTABLISH- MENTS AND PERCENTAGE OF EQUIPMENT OWNED	Establishments reporting	Pur- chased during the year	Inventory value at end of year	construc- tion busi- ness re- ported	Wages paid
MICHIGAN-Continued.						FLINT	\$60	\$181, 490	8829, 758	\$8,681,094	\$1, 912, 117
Percentage of equipment owned						Classification of establish- ments					
General contractors ⁷	710 111	\$3,146,074	\$13, 756, 026	\$199, 912, 316 16, 377, 476	\$42, 825, 752 825, 983	Operative builders	3	100, 314	1, 789	626, 945	130, 719
1% to 25% 26% to 50% 51% to 75%	17	8, 198 36, 788 30, 541	44, 374 47, 311 237, 891	5, 121, 014 1, 141, 721 5, 303, 794	293, 208 550, 267	General contractors 1		40, 120		4, 894, 650	-
Gendral contractors	$ \begin{array}{c} 120 \\ 411 \\ 24 \end{array} $	879, 129 2, 163, 464 27, 954	3, 355, 365 9, 929, 027 142, 058	\$199, 012, 316 16, 377, 476 5, 121, 614 1, 141, 721 5, 303, 794 56, 983, 228 111, 512, 503 4, 381, 980	14, 486, 864 25, 371, 718 640, 616	Subcontractors Electrical Heating and plumbing	32 4 15	1, 395 10, 945	4,652 51,627	$ \begin{array}{r} 3, 159, 499 \\ 282, 246 \\ 1, 438, 887 \\ \end{array} $	68, 879 350, 270
0.1	0.10	960, 771		104, 984, 187	25, 435, 590	Blectrical Heating and plumbing Plumbing and heating com- bined Roofing and sheet-metal work Marble, tiling, and plastering Other classes ²	9		23, 675	775, 731 663, 156	214, 004 136, 266
1% to 25% 26% to 50%		1,200 3,780	6, 000 10, 783 66, 772	118,500 323,542	34, 398 121, 136 242, 280	Roofing and sheet-metal work Marble, tiling, and plastering Other classes ²	5 3 5	1,270 1,680 25,766	8,560	411, 451 247, 273 779, 642	90,730
Bibcontractors None 26% to 25% 26% to 50% 51% to 76% 70% to 99% 100% Not reported	43 516 20	220, 585 653, 816	720, 139	64, 964, 527	3, 017, 868 17, 194, 357 752, 562	Percentage of equipment owned					
DETROIT		1, 773, 466			43, 365, 378	General contractors 7	28	140, 434	168, 108	5, 521, 595 337, 226	1, 112, 892 43, 922
Classification of establish- ments					·.	1% to 25% 26% to 50% 51% to 75%	2	1, 300		837, 220 148, 282	32, 729
Operative builders		1 ' '				General contractors 7 None 1% to 25% 26% to 50% 51% to 75% 76% to 99% 100% Not reported	20	17, 486 121, 648	26, 030 137, 272	1, 042, 304 3, 093, 783	751,601
General contractors Building Building not specialized Commercial building only Residential building only	232 177 101	258, 481	6, 935, 050 1, 341, 287 1, 287, 329 8, 252	124, 005, 146 86, 528, 117 77, 204, 918	26, 608, 754 15, 703, 701 14, 889, 441	Not reported Subcontractors None 1% to 25% 26% to 50% 51% to 75% 76% to 90% 100% Not reported	32	41, 050	161, 650	3, 159, 499	799, 225
Commercial building only Residential building only Highway ⁸	9 67 8	14, 125 108, 030	45,706 508.999	1, 070, 870 8, 252, 329 5, 640, 950	$\begin{array}{c} 20, 608, 764\\ 15, 703, 701\\ 14, 889, 441\\ 227, 304\\ 586, 896\\ 651, 134\\ 2 200, 108\end{array}$	1% to 25%					
Street paving Sewer, gas, water, conduit Waterworks dam, and reser-	9 22	152, 290	1, 031, 109 1, 846, 751	11, 424, 138 13, 912, 728	2, 209, 108 5, 844, 387	78% to 99%	1 29	13, 050 26, 818	15, 797 143, 148	110, 339 2, 988, 880	53, 779 732, 231
Residential building only Highway 8 Street paving Sewer, gas, water, conduit Waterworks, dam, and reser- voir Railroad Foundation Other classes 8	5 5 3	71, 210 52, 419 48, 265	196, 526 282, 098 179, 047	1, 745, 393 1, 225, 806 938, 713	504, 656 521, 001 220, 691	GRAND RAPIDS	2 121	1, 188 328, 378	2, 705 1, 543, 369	60, 280 13, 841, 850	13, 215 3, 528, 381
Other classes ⁹	3 319	267, 026	1, 549, 173	2, 589, 301 60, 217, 038	804, 076	Classification of establish- ments					
Subcontractors Carpentering and wood floor- ing Concreting Elevator construction Heating and plumbing Plumbing and heating com- Plumbing and heating com- bined.	15	3, 129	1, 607, 447 17, 429 38, 141		566, 366	General contractors ⁷	61 47	202, 925 34, 230	1, 234, 412 221, 657	9, 271, 657 6, 696, 470 5, 773, 158	2, 288, 135 1, 492, 784
Electrical Elevator construction	7 46 4	26, 683 7, 344	183, 646 17, 568	8, 814, 381 2, 697, 867	444, 316 2, 816, 641 246, 385	Building Building not specialized 7 Residential building only Highway and grading Street paving Other classes 4	34 13 5	32, 286 1, 950 103, 642	213, 929 7, 728 510, 482 263, 457 288, 816	5, 773, 158 923, 312 1, 164, 141	1, 363, 844 128, 940 425, 019
Heating and plumbing Heating and piping 4 Plumbing	103 26 55	11, 422	407, 970 122, 411 191, 898	17,063,062 5,978,377 7,044,023	3, 752, 927 1, 300, 423 1, 616, 140	Street paving Other classes 4	5 4 5	50, 657 14, 390		923, 312 1, 164, 141 738, 933 672, 113	184, 809 185, 523
Plumbing and heating com- bined Masonry	22 21	21, 819	93, 661 67, 489	4, 040, 662 3, 797, 986	836, 364 1, 477, 625	Subcontractors Electrical	60 10 20	125,453 1,520 7,145	308, 957 15, 958 105, 786	4, 570, 193 543, 873	$\substack{1,240,246\\129,237\\360,812}$
Painting and decorating and Glass and glazing Plastering and lathing	22 9 11	20, 382 990	84, 238 19, 117 30, 889	3, 797, 986 1, 905, 656 1, 095, 242 1, 301, 027	1, 477, 625 905, 282 213, 189 626, 227	Electrical. Heating and plumbing. Heating and piping. Plumbing.	10 10	7, 145 3, 020 4, 125 935	84, 205 21, 581 3, 400	1, 831, 648 1, 380, 962 450, 680	245, 977 114, 835 47, 215
Masoury. Painting and decorating ⁴ Glass and glazing Plastering and lathing. Roofing and sheet-metal work. Roofing Sheet-metal work	34 15 7	32, 377 13, 677	236, 496 93, 264 72, 211	5, 781, 425 2, 062, 899 1, 984, 411	$\begin{array}{c} \mathbf{1, 642, 248'}\\ \mathbf{367, 639}\\ \mathbf{723, 592} \end{array}$	Painting and decorating Roofing and sheet-metal work	4 6 6	4,004 2,709	12,560 21,401	132, 647 297, 682 483, 970	139, 588
Roofing and sheet metal com- bined	12 9	8 485	71, 021 294, 418			Plumbing Masoury Painting and decorating Roofing and sheet-metal work. Marble, tiling, and plastering Excavating and grading Motal work, n. e. s. ⁴ Other classes ⁶	5000	4, 994 98, 146 6, 000	14, 297 124, 155 10, 525	550, 022 373, 732 217, 235 139, 384	195, 026 101, 860 101, 600 33, 065
Stonework Marble and tiling	4	2,001	67, 095 39, 129	1, 158, 912	249, 763 708, 540	Percentage of equipment	3		875	139, 884	
Excavating Ornamental iron ¹⁰ Other classes ⁶	5 5	58, 818 2, 859 88, 533	70, 628 200, 024	$\begin{array}{c} 1,734,115\\6,126,553\\1,158,912\\2,457,824\\699,381\\2,308,993\\1,487,370\end{array}$	166, 153 887, 602 481, 260	owned General contractors 7	61	202, 925	1, 234, 412	9, 271, 657	2, 288, 135
Percentage of equipment owned			ы. С. С. С. С.			None 1% to 25% 26% to 50%	4			267, 082	4, 386
General contractors 7		1, 349, 670	6, 958, 292	136, 085, 189 13, 221, 600	27, 217, 081 852, 760	Barbarn contractors 1% to 25% 28% to 50% 51% to 75% 76% to 99% 100%	3 5 49	2, 731 14, 543 185, 651	104, 150 28, 802 1, 101, 460	705, 219 585, 220 7, 714, 136	$148,978 \\ 222,373 \\ 1,912,398$
None. 1% to 25%	9 5 5	3, 466	9, 958 27, 535 76, 642	$136,085,189\\13,221,600\\4,430,251\\485,244\\4,127,882\\40,877,817\\70,049,707\\8,600,687$	229, 345 109, 582 244, 902	Subcontractors	 ao	125, 453	308, 957	4, 570, 193	1, 240, 246
76% to 99% 100% Not reported	52 123 14	435, 316	27, 535 76, 642 1, 527, 104 5, 276, 570 40, 483	40, 877, 817 70, 049, 707 2, 892, 688	10, 439, 572 15, 111, 254 229, 665	None 1% to 25% 26% to 50%	3.			278, 897	78, 696
Subcontractors	319 15	423, 796	1, 957, 447		16, 148, 207 1, 027, 423		3 52	12, 893 111, 634	26, 603 280, 116	128, 490 4, 089, 567 73, 780	27, 499 1, 112, 726
Subcontractors	4	3, 315 5, 771 72, 862	9 105		66, 465 229, 301	Not reported	2	926	280, 116 2, 238	73, 780	21, 325
76% to 99% 100% Not reported	24 254 18	72, 862 269, 083 72, 765	56, 487 372, 403 1, 321, 858 197, 594	192, 159 1, 073, 488 8, 092, 408 44, 845, 385 2, 331, 909	2, 016, 629 12, 125, 591 682, 888						
	10	12,100	107,004	2,001,009	002,000			l			

Includes vebicular subway and tunnel.
 Includes levee.
 Includes foundation; and central station, light and power plant.
 Includes pipe covering; and automatic temperature control.
 Includes flooring, miscellaneous, n. e. s.

⁶ Includes bridge and culvert; soundproofing; and foundation.
⁷ Includes operative builders.
⁸ Includes grading, and vehicular subway and tunnel.
⁹ Includes dredging, river and harbor, etc.; and bridge and culvert.
¹⁰ Includes metal work, miscellaneous, n. e. s.

TABLE 4.-CONSTRUCTION BUSINESS OUTSIDE HOME STATE, BY LOCATION

	LOCA T	ION REPORTED	в¥—		LOCAT	ION REPORTED	вт—
STATE OR COUNTRY	All classes of establish- ments	General contractors	Subcon- tractors	STATE OR COUNTRY	All classes of establish- ments	General contractors	Subcon- tractors
MICHIGAN				DETROIT			
Total distributed by State or country 1.	\$31, 685, 319	\$7, 413, 175	\$24, 272, 144	Total distributed by State or country ² -	\$15, 600, 339	\$6, 965, 709	\$8, 634, 630
Total distributed by State or country - Alabama	$\begin{array}{c} 148, 258\\ 841\\ 80, 688\\ 160, 420\\ 463, 978\\ 30, 574\\ 269, 510\\ 202, 042\\ 34, 200\\ 202, 042\\ 202, 042\\ 202, 042\\ 34, 200\\ 202, 042\\ 34, 200\\ 202, 042\\ 34, 200\\ 202, 042\\ 34, 200\\ 202, 042\\ 34, 200\\ 202, 042\\ 34, 200\\ 202, 042\\ 34, 200\\ 34, 200\\ 34, 200\\ 34, 34, 34, 34, 34, 34, 34, 34, 34, 34,$	5, 600 9, 802 	$\begin{array}{r} \$24,\ 272,\ 144\\ 142,\ 668\\ 142,\ 668\\ 166,\ 420\\ 454,\ 610\\ 39,\ 574\\ 269,\ 510\\ 29,\ 600\\ 292,\ 610\\ 29,\ 600\\ 292,\ 610\\ 29,\ 600\\ 292,\ 610\\ 29,\ 600\\ 292,\ 610\\ 29,\ 610\\ 29,\ 610\\ 29,\ 610\\ 29,\ 610\\ 29,\ 610\\ 29,\ 610\\ 29,\ 610\\ 29,\ 610\\ 29,\ 610\\ 29,\ 610\\ 29,\ 610\\ 29,\ 610\\ 29,\ 610\\ 29,\ 610\\ 245,\ 314\\ 40,\ 608\\ 245,\ 314\\ 42,\ 608\\ 6158,\ 607\\ 65,\ 461\\ 42,\ 984\\ 457,\ 602\\ 766,\ 373\\ 5,\ 204\\ 57,\ 602\\ 766,\ 373\\ 70,\ 302\\ 766,\ 373\\ 70,\ 302\\ 766,\ 373\\ 72,\ 610\\ 756,\ 373\\ 142,\ 4984\\ 42,\ 413\\ 70,\ 302\\ 70,\ 302\\ 72,\ 731\\ 19,\ 955,\ 165\\ 174,\ 875\\ 72\\ 16,\ 480\\ 324,\ 607\\ 72\\ 116,\ 480\\ 324,\ 607\\ 72\\ 116,\ 480\\ 324,\ 607\\ 77,\ 626\\ 76,\ 722\\ 726\\ 76,\ 722\ 76,\ 722\ 76,\ 76,\ 722\ 76,\ 76,\ 76,\ 76,\ 76,\ 76,\ 76,\ 76,$	Alabama. Arkansas. California. Connectiout. Delaware. District of Columbia. Florida. Georgia. Inlinois. Indiana. Iowa. Kansas. Kantass. Kantass. Kantass. Kantass. Kantass. Kantass. Mainos. Maryland. Noth Carolina. North Dakota. Ohio. Otha Island. South Carolina. Tennessee. Utah. Vermont. Virginia. Washington. West Virginia. Wisconsin. Other States, n. s. Canada. Other North and Central Americs. FLINT Total distributed by State 4 Ohio.	$\begin{array}{c} 51, 457\\ 841\\ 28, 780\\ 156, 781\\ 14, 655\\ 269, 550\\ 269, 550\\ 269, 550\\ 269, 550\\ 269, 550\\ 128, 700\\ 261, 726\\ 485, 847\\ 330\\ 103, 735\\ 103, 735\\ 203\\ 47, 133\\ 374, 133\\ 374, 133\\ 374, 133\\ 374, 133\\ 374, 133\\ 374, 133\\ 374, 133\\ 374, 133\\ 374, 133\\ 2, 325\\ 109, 489\\ 5, 450\\ 150, 052\\ 1, 950, 760\\ 2, 2856\\ 4, 455\\ 1, 096, 546\\ 1, 998, 578\\ 367, 576\\ 52, 074\\ 52, 074\\ 52, 074\\ 52, 074\\ \end{array}$	86, 500 276, 751 97, 000 853, 087 4, 455 967, 754 4, 312, 587 367, 575	$\begin{array}{c} 51, 457\\ 811\\ 28, 786\\ 1.56, 781\\ 14, 655\\ 2.09, 510\\ 29, 950\\ 128, 700\\ 175, 226\\ 209, 000\\ 128, 700\\ 175, 226\\ 209, 000\\ 1330\\ 350\\ 9, 230\\ 350\\ 350\\ 350\\ 350\\ 350\\ 350\\ 350\\ 3$
				Total distributed by State ' Connecticut. Indiana. Massachusetts. New Jersey. Ohio. Other States, n. s.	9, 302 57, 429 8, 643 7, 380	25, 385 9, 302 8, 643 7, 380	1.50, 31: 57, 42: 51, 41: 47, 46

Number of establishments reporting: ¹ All classes, 68; general contractors, 27; subcontractors, 41. ² All classes, 38; general contractors, 11; subcontractors, 27. ³ All classes, 1; subcontractors, 1. ⁴ All classes, 7; general contractors, 3; subcontractors, 4.

TABLE 5.-NUMBER AND SALARIES OF PROPRIETORS, FIRM MEMBERS, AND SALARIED EMPLOYEES: 1929

anna an tha an t			ETORS MEMBE	AND FIRM RS			·	SALAR	IED EMI	LOYEES				
CLASSIFICATION OF ESTABLISHMENTS	Estab- lish- ments report-	Re- ceiv-	Receiv	ing salaries		salaried ployees	Officient	cers and cal staff		ntendents, nen, etc.	Num	ber repo by sex	rted,	Sex not
	ing	ing no salary	Num- ber	Total annual salaries	Total num- ber	Total annual salaries	Num- ber	Total annual salaries	Num- ber	Total annual salaries	Total	Male	Fe- male	re- port- ed
MICHIGAN	1, 462	860	527	\$1, 831, 102	4, 854	\$14, 543, 696	2, 819	\$8, 984, 922		\$5, 558, 774	4, 255	3,445	810	599
perative builders	85	68	7	27, 830	175	457, 471	131	347, 866		109, 605	165	112 1, 848	53 276	10 314
Peneral contractors. Building not specialized Commercial building only Manufacturing building only Residential building only Highway 1 Bridge and culvert. Grading Street noving	678 473 303 17	484 341 189 20	$ \begin{array}{c} 200 \\ 140 \\ 108 \\ 2 \\ 2 \end{array} $	742, 454495, 758385, 1034, 75011, 649	2,438 1,569 1,370 16	$\begin{array}{c} 7,747,756\\ 5,133,964\\ 4,583,840\\ 29,412\\ 300 \end{array}$	1, 122 773 638 6	4, 183, 182 2, 885, 506 2, 497, 763 7, 440 300	1, 316 798 732 10	3, 564, 574 2, 248, 458 2, 086, 077 21, 972	2,124 1,317 1,137 16	1, 108 1, 108 969 12	209 168 4	252 233
Manufacturing building only Residential building only Highway 1 Bridge and culvert	3 150 75 16	$ \begin{array}{c} 2 \\ 130 \\ 67 \\ 14 \end{array} $	28 22 5	94, 256 86, 540 22, 585	182 263 32	520, 412 606, 676 66, 270	$ \begin{array}{r} 128 \\ 95 \\ 12 \\ 12 \end{array} $	380, 003 291, 404 30, 465	$ \begin{array}{r} 54 \\ 168 \\ 20 \\ 11 \end{array} $	$\begin{array}{r}140,409\\315,272\\35,805\\17,881\end{array}$	$ \begin{array}{r} 164 \\ 251 \\ 30 \\ 17 \end{array} $	$ \begin{array}{r} 127 \\ 236 \\ 28 \\ 17 \end{array} $	37 16 2	
Grading	11 30	10	$ \begin{array}{c} 2 \\ 10 \\ 11 \end{array} $	5,900 41,382 39,546	23 211 179	735, 450	80 77	32, 910 319, 203 273, 633	131 102	416, 253 259, 292	190 171	171 153	19 18	21
GradingStreet pavingSower, gas, water, conduit Dam and reservoir Waterworks Dredging, river, harbor, etc. ² Railroad Other classes ³			$ 11 \\ 4 \\ 4 \\ 2 \\ 2$	31, 272 13, 484 5, 987	16 34 44 46	35, 267 137, 593 176, 011 174, 772	9 17 23 16	22, 696 84, 153 101, 782 88, 370	7 17 -21 30 13	$\begin{array}{c} 12,571\\53,440\\74,229\\86,402\\44,971\end{array}$	$ \begin{array}{r} 10 \\ 30 \\ 41 \\ 46 \\ 21 \end{array} $	10 27 36 44 19	3 5 2 2	4
Other classes ⁸	4	1	320	1, 060, 818	21 2, 241		1, 560		675	1,884,595	1,966	1, 485	481	27
Subcontractors Carpontering and wood flooring Concreting Electrical Elevator construction Elevator construction	699 18 18 109 4	7 8 45	320 8 3 54	25, 536 6, 700 218, 178	47 24 364 12	165, 635 126, 107 1, 129, 504 35, 271	35 17 267 6	124, 804 106, 127 897, 696 13, 130	12 7 97 6	40, 831 19, 980 231, 808 22, 141	34 15 335 12	$ \begin{array}{c} 28 \\ 10 \\ 252 \\ 10 \\ 257 \end{array} $	6 5 83 2 172	2
Elevator construction Heating and plumbing Heating and piping 4 Plumbing Plumbing and heating combined Automatic sprinkler systems	288 55 133 92	140 25 74	149 17 70 62	$\begin{array}{r} 404,703 \\ 53,209 \\ 211,028 \\ 200,406 \end{array}$	612 170 247 186	$1, 601, 158 \\ 481, 660 \\ 691, 979 \\ 462, 440$	453 118 194 136	318, 075 513, 911 329, 038	159 52 53 50	486, 430 163, 591 178, 068 133, 411	529 154 204 162	357 119 130 102 6	172 35 74 60	1 4 2
Automatic sprinkler systems	30	28	6	15,240	9 81	25, 064 295, 319	5 35 67	13, 704 121, 978 190, 594	46	11,360 173,341 101,571	9 72 76	65 58 20	7 18	
Automatic sprinkler systems. Masonry	- 40 - 8 - 20		14 1 12	61, 019 2, 553 45, 180	103 32 46	95, 717 164, 451	20 23	62, 677 64, 701	36 12 23	33, 040 99, 690	76 27 35	29	7	1 1
Plastering and inthing Roofing and sheet-metal work Roofing	- 90 50	23 12	33	92, 268 25, 404	320 209	811, 281 495, 130	227 158	574, 877 383, 419	93 51 12	236, 404 111, 711 26, 846	283 189 28	$ \begin{array}{c} 231 \\ 156 \\ 23 \\ 52 \end{array} $	52 33 5	2
Sheet-metal work Roofing and sheet metal combined	17	5	11 10 4	$34,662 \\ 32,202 \\ 12,600$	38 73 226 43	90, 001 226, 150 677, 643	26 43 160	63, 155 128, 303 503, 448	30 60	07, 847 174, 195	$ \begin{array}{c} 28 \\ 66 \\ 211 \end{array} $	52 198 40	14 13	1
Steel erection Stonework	13 7 29 10	129	19 13	57, 360	105	328, 437	30	09, 739 264, 514	13 21	56, 399 63, 923	42 96 30	40 68 24	2 28 6	
Stonework Marbie and tiling. Excavating and wrecking. Ornamental iron. Grading and highway. Soundproofing. Metal work, n, e. s. Other classes ⁶ .	16	12	13	45, 895 8, 060	45 26 9	98, 500	84 20 17 3	43, 620 64, 310 7, 300	25 9 6	83, 658 34, 190 9, 280	15	13	2	1
Grading and highway Soundproofing	- 5		1	5, 460	79	12, 140 117, 255	5	8, 140 117, 255	2	4,000	78	. 9	8 69	
Metai work, n, e. s Other classes ⁶	3				60	77, 890	12	14, 176	48	63, 714 3, 478, 743	60 2,498	60 2,005	493	37
DETROIT	- 659			841,888 23,280	2,875		1,711	6, 121, 650 283, 152	36	88, 953	129	84	45	
Operative builders General contractors	040		5 57	23, 280	1, 375		691			2.057.147	1, 158	996	162 124	21
General contractors. Building not specialized. Commercial building only. Residential building only.	193	123 44	41 30	201,823 152,393	997 871	3, 500, 083 3, 138, 468		2, 811, 303 2, 117, 655 1, 841, 234 5, 200	476	1, 382, 428 1, 297, 229 12, 372	786 678 10	662 583 7	95	19
Commercial building only Residential building only	976	70	9	44,680	10 116 20	344,048	1 91	2/1, 221	20	72, 827	98	72 27	20	1
Highway 7 Street paving	- 10	6	1	4,111	126	495, 582	50 55	195, 459 221, 386	76	300, 123 201, 708	1 196	111 118 18	15 13 3	
Street paving			4	31, 272 5, 987	23 33 14	69, 989 136, 072	14	67,670	0 22	25, 440 68, 402 29, 604		18 31 13		
Foundation	3				14	61, 424 69, 872	12		9 6	29, 604 23, 042	18	16	2	
Subcontractors.	346	6	5	16, 956 6, 760	1, 364 45 20		33 10	122,038	12	40, 831	32	9		
Electrical	- 55				227 12 319	35, 271	11 6	13, 130	6	22,141	12 283	10 209	1 2	. 1
Heating and plumbing Heating and piping	- 109	15	4	16, 222.	110	338, 159	229 73 109	727, 061 212, 230 345, 501	34	125, 929	104	83	37	7
Plumbing Plumbing and heating combined	25	32 12 19	22 19 4	65 861	11 66	214, 098	47	169, 330	43	44, 768	69	62	10	7
Painting and decorating 5	20	11	6	2,553	83	89,717	1 19	56, 677	12	94, 375 33, 040 83, 262	26	19	14	4 I C
Masonry Painting and decorating ⁴ . Glass and glazing Plastering and lathing Roofing and sheet-metal work.	14 35 17	5 11	9	1 46.572	·II 141	420, 874		271,666	46	149, 208	130	108 83	2 1	3
Roofing Sheet-metal work Roofing and sheet metal combined	!	7 2	5 4 4	17,430	80 19 42	46, 397 144, 758	23	36, 437 70, 764	4	9,960 73,989		13	2 1 1 1	2 7 1
Steel crection	-		3	10, 200	- 30	250.415	29	78, 213	24 12	81, 291 52, 225 57, 003	69 5 39 3 68	3		i
	1	51 S	12	38, 386	1 70	3 264, 610	58	207,607	1 ⁴ 9					3
Marble and tiling Excevating Ornamental iron		5 5	1 2	10, 517	1 1	5 19, 711 203, 311		16,495		3, 210 34, 190	5 8) 6	8

⁶¹⁵

		PROFR	letors Membe	AND FIRM RS				SALAR	IED EM	PLOYEES				
CLASSIFICATION OF ESTABLISHMENTS	Estab- lish- ments report-	Re-	Receiv	ing saláries		salaried ployees	Offi cleri	cers and lcal staff		ntendents, nen, etc.	Num	ber repo by sex	orted,	Sex
	ing	ing no salary	Num- ber	Total annual salaries	Total num- ber	Total annual salaries	Num- ber	Total annual salaries	Num- ber	Total annual salaries	Total	Male	Fe- male	re- port- ed
FLINT	68	49	20	\$60, 552	149	\$382, 711	97	\$238, 075	52	\$144, 636	123	79	44	26
Operative builders	4	5	1	650	8	17, 440	3	4, 800	5	12, 640	8	6	2	
General contractors 10	28	25	2	6, 750	65	184, 512	35	101, 823	30	82, 689	45	30	15	20
Subcontractors. Electrical Heating and plumbing. Plumbing. Plumbing and heating combined. Roofing and sheet-metal work. Marble, tiling, and plastering. Other classes u	17 10 7 6	$ \begin{array}{r} 10 \\ 2 \\ 10 \\ 6 \\ 4 \\ $	17 3 10 4 6 2 2	53, 1529, 100 $32, 7529, 83622, 9164, 8006, 500$	76 13 32 19 13 20 1 10	$180,759 \\ 23,109 \\ 71,600 \\ 46,902 \\ 24,698 \\ 47,274 \\ 1,000 \\ 37,776 \\ 180,000 \\ 10$	59 9 28 17 11 16 1 5	$131, 452 \\ 16, 160 \\ 61, 006 \\ 41, 902 \\ 19, 104 \\ 34, 630 \\ 1, 000 \\ 18, 656 \\ 1, 000 \\ 18, 656 \\ 1000 \\$	17 4 2 2 4 5	49, 307 6, 949 10, 594 5, 000 5, 594 12, 644 19, 120	70 13 29 17 12 17 1 17 1	43 10 11 8 3 13 9	$27 \\ 3 \\ 18 \\ 9 \\ 9 \\ 4 \\ 1 \\ 1$	6
GRAND RAPIDS	181	76	62	173, 448	337	923, 161	203	576, 042	134	347, 119	298	234	64	39
General contractors ¹² Building Building not specialized ¹² Residential building only Highway and grading Street paving Other classes ¹³	51 37 14 5	$47 \\ 37 \\ 24 \\ 13 \\ 4 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ $	32 25 20 5 2 2 3	93, 754 68, 980 59, 080 9, 900 12, 094 5, 660 7, 020	$165 \\ 114 \\ 102 \\ 12 \\ 24 \\ 13 \\ 14$	521, 597 360, 462 332, 978 27, 484 57, 351 57, 108 46, 676	77 53 40 7 12 5 7	277, 233 181, 472 105, 348 16, 124 33, 731 38, 070 23, 960	88 61 56 5 12 8 7	244, 364 178, 990 167, 630 11, 360 23, 620 19, 038 22, 716	154 109 97 12 20 11 14	135 95 85 10 17 10 13	19 14 12 2 3 1 1	11 5 5 4 2
Subcontractors Electrical Heating and plumbing Heating and piping ¹¹ Plumbing Masonry Painting and decorating Roofing and sheet-metal work Marble, tilling, and plastering Metal work, n. e. s. ¹⁸ Other classes ¹⁶	4	29 3 10 2 8 3 5 5 4 2 2	30 6 11 4 7 2 3 	79, 694 16, 918 25, 030 7, 720 17, 310 4, 940 14, 766 5, 460 12, 580	$172 \\ 32 \\ 52 \\ 37 \\ 15 \\ 3 \\ 4 \\ 31 \\ 24 \\ 10 \\ 16$	$\begin{array}{c} 401,564\\ 60,179\\ 123,851\\ 95,115\\ 228,736\\ 4,500\\ 5,280\\ 88,369\\ 59,557\\ 10,044\\ 40,784\\ \end{array}$	126 23 30 28 11 	208, 809 40, 766 89, 581 72, 225 17, 366 3, 200 72, 303 48, 577 19, 044 25, 288	46 9 13 9 4 3 1 10 3 7	102, 755 19, 423 34, 270 22, 890 11, 380 4, 500 2, 080 16, 008 10, 980	144 32 28 14 3 31 24 6 3	99 20 22 7 3 1 24 17 8 2	45 12 13 6 7 7 7 3 1	28 10 9 1 1 1 1 3

Includes vehicular subway and tunnel.
Includes levee.
Includes foundation; and contral station, light and power plant.
Includes pipe covering; and automatic temperature control.
Includes flowing, n. e.s.
Includes bridge and culvert; and foundation.
Includes prading; and vehicular subway and tunnel.
Includes bridge and culvert; and dredging, river, harbor, etc.

Includes metal work, n. e. s.
Includes building; highway; and sewer, gas, water, and conduit.
Includes painting and decorating; steel erection; excavating; and grading.
Includes operative builders.
Includes bridge and culvert; and sewer, gas, water, and conduit.
Includes plumbing and heating combined.
Includes steel erection.
Includes steel erection.
Includes carpentering and wood flooring; excavating; and grading.

TABLE 6.-VALUE OF CONSTRUCTION EQUIPMENT, IN COMPARISON WITH CONSTRUCTION BUSINESS AND WAGES PAID DURING 1929

	nents g	Eq	uipment	Value of	1	(ents g	Equ	ipment	Value of	
CLASSIFICATION OF ESTABLISH- MENTS AND PERCENTAGE OF EQUIPMENT OWNED	Establishments reporting	Pur- chased during the year	Inventory value at end of year	construc- tion busi- ness re- ported	Wages paid	CLASSIFICATION OF ESTABLISH- MENTS AND PERCENTAGE OF EQUIPMENT OWNED	Establishments reporting	Pur- chased during the year	Inventory value at end of year	construc- tion busi- ness re- ported	Wages paid
MICHIGAN	1, 327	\$4,108,845	\$17, 272, 224	\$804, 896,503	\$68, 261, 342	MICHIGAN-Continued.		~			
Classification of establish- ments						Classification of establish- ments-Continued					
Operative builders	$\begin{array}{c} 629\\ 429\\ 279\\ 17\\ 3\\ 130\\ 73\\ 16\\ 11\\ 28\\ 38\\ 6\\ 7\end{array}$	$\begin{array}{c} 3, 032, 938\\ 550, 527\\ 497, 381\\ 10, 727\\ 1, 791\\ 40, 628\\ 903, 281\\ 56, 520\\ 69, 295\\ 300, 192\\ 459, 978\\ 12, 200\\ 88, 000\\ 88, 000\\ 56, 557\end{array}$	$\begin{matrix} 13,724,192\\2,496,833\\2,317,581\\38,452\\3,876\\136,924\\3,141,807\\205,453\\317,380\\1,886,541 \end{matrix}$	875, 984 1, 097, 788 16, 150, 843 15, 677, 684	$\begin{array}{c} 41, 947, 401\\ 24, 743, 590\\ 22, 698, 424\\ 400, 328\\ 55, 452\\ 355, 452\\ 300, 966\\ 344, 402\\ 3, 564, 357\\ 6, 311, 206\\ 162, 541\\ 665, 493\\ \end{array}$	Subcontractors-Continued. Elevator construction. Heating and plumbing. Plumbing and plaing ' Plumbing and heating com- bined. Automatic sprinkler systems. Masonry Painting and decorating ' Glass and glazing. Plastering and lathing. Roofing and sheet-metal work. Roofing and sheet metal work. Roofing and sheet metal com- bined. Steel erection.	119 72 3 29 36 11 17 80 45 14	\$7, 344 151, 685 19, 243 75, 216 53, 345 3, 781 27, 961 1, 290 10, 195 101, 620 130, 430 14, 710 147, 035 2, 376	988, 745 280, 587 396, 246 319, 758 12, 154 85, 253 118, 122 21, 480 46, 264 369, 048 152, 138 106, 315 110, 595 569, 896	25, 654, 688 10, 837, 577 8, 636, 755 483, 025 4, 109, 878 2, 633, 626 1, 109, 960 1, 935, 986 9, 109, 643 4, 008, 574 2, 380, 874 12, 131, 180	\$246, 385 9, 292, 744 4, 743, 338 2, 560, 975 1, 872, 111 116, 320, 787 1, 200, 787 235, 317 885, 580 2, 367, 223 788, 552 882, 066 736, 635 1, 670, 143 258, 933
Subcontractors. Carpentering and wood floor- ing. Concreting. Electrical	617 17 12 91	·			· · · //	Steel erection Stonework. Marble and filing Dxeavating and wrecking Ornamental iron Grading Metal work, n. e. s Other classes 6	24 16 6 3	2, 376 17, 799 234, 215 2, 859 13, 800 88, 533	79, 931 98, 378 459, 992 09, 964 39, 000 1, 189 209, 024	1, 242, 706 3, 165, 828 1, 689, 880 2, 162, 183 210, 472 236, 562 1, 487, 370	268, 939 954, 767 503, 953 876, 288 72, 086 49, 891 481, 260

TABLE 6.-VALUE OF CONSTRUCTION EQUIPMENT, IN COMPARISON WITH CONSTRUCTION BUSINESS AND WAGES PAID DURING 1929-Continued

	ents	Eq	uipment	Value of			ents	Equ	ipment	Value of	
CLASSIFICATION OF ESTABLISH- MENTS AND PERCENTAGE OF EQUIPMENT OWNED	Establishments reporting	Pur- chased during the year	Inventory value at end of year	construc- tion busi- ness re- ported	Wages paid	CLASSIFICATION OF ESTABLISH- MENTS AND PERCENTAGE OF EQUIPMENT OWNED	Establishments reporting	Pur- chased during the year	Inventory value at end of year	construc- tion busi- ness re- ported	Wages paid
MICHIGAN-Continued.						FLINT	\$60	\$181, 490	8829, 758	\$8,681,094	\$1, 912, 117
Percentage of equipment owned						Classification of establish- ments					
General contractors ⁷	710 111	\$3,146,074	\$13, 756, 026	\$199, 912, 316 16, 377, 476	\$42, 825, 752 825, 983	Operative builders	3	100, 314	1, 789	626, 945	130, 719
1% to 25% 26% to 50% 51% to 75%	17	8, 198 36, 788 30, 541	44, 374 47, 311 237, 891	5, 121, 014 1, 141, 721 5, 303, 794	293, 208 550, 267	General contractors 1		40, 120		4, 894, 650	-
Gendral contractors	$ \begin{array}{c} 120 \\ 411 \\ 24 \end{array} $	879, 129 2, 163, 464 27, 954	3, 355, 365 9, 929, 027 142, 058	\$199, 012, 316 16, 377, 476 5, 121, 614 1, 141, 721 5, 303, 794 56, 983, 228 111, 512, 503 4, 381, 980	14, 486, 864 25, 371, 718 640, 616	Subcontractors Electrical Heating and plumbing	32 4 15	1, 395 10, 945	4,652 51,627	$ \begin{array}{r} 3, 159, 499 \\ 282, 246 \\ 1, 438, 887 \\ \end{array} $	68, 879 350, 270
0.1	0.10	960, 771		104, 984, 187	25, 435, 590	Blectrical Heating and plumbing Plumbing and heating com- bined Roofing and sheet-metal work Marble, tiling, and plastering Other classes ²	9		23, 675	775, 731 663, 156	214, 004 136, 266
1% to 25% 26% to 50%		1,200 3,780	6, 000 10, 783 66, 772	118,500 323,542	34, 398 121, 136 242, 280	Roofing and sheet-metal work Marble, tiling, and plastering Other classes ²	5 3 5	1,270 1,680 25,766	8,560	411, 451 247, 273 779, 642	90,730
Bibcontractors None 26% to 25% 26% to 50% 51% to 76% 70% to 99% 100% Not reported	43 516 20	220, 585 653, 816	720, 139	64, 964, 527	3, 017, 868 17, 194, 357 752, 562	Percentage of equipment owned					
DETROIT		1, 773, 466			43, 365, 378	General contractors 7	28	140, 434	168, 108	5, 521, 595 337, 226	1, 112, 892 43, 922
Classification of establish- ments					·.	1% to 25% 26% to 50% 51% to 75%	2	1, 300		837, 220 148, 282	32, 729
Operative builders		1 ' '				General contractors 7 None 1% to 25% 26% to 50% 51% to 75% 76% to 99% 100% Not reported	20	17, 486 121, 648	26, 030 137, 272	1, 042, 304 3, 093, 783	751,601
General contractors Building Building not specialized Commercial building only Residential building only	232 177 101	258, 481	6, 935, 050 1, 341, 287 1, 287, 329 8, 252	124, 005, 146 86, 528, 117 77, 204, 918	26, 608, 754 15, 703, 701 14, 889, 441	Not reported Subcontractors None 1% to 25% 26% to 50% 51% to 75% 76% to 90% 100% Not reported	32	41, 050	161, 650	3, 159, 499	799, 225
Commercial building only Residential building only Highway ⁸	9 67 8	14, 125 108, 030	45,706 508.999	1, 070, 870 8, 252, 329 5, 640, 950	$\begin{array}{c} 20, 608, 764\\ 15, 703, 701\\ 14, 889, 441\\ 227, 304\\ 586, 896\\ 651, 134\\ 2 200, 108\end{array}$	1% to 25%					
Street paving Sewer, gas, water, conduit Waterworks dam, and reser-	9 22	152, 290	1, 031, 109 1, 846, 751	11, 424, 138 13, 912, 728	2, 209, 108 5, 844, 387	78% to 99%	1 29	13, 050 26, 818	15, 797 143, 148	110, 339 2, 988, 880	53, 779 732, 231
Residential building only Highway 8 Street paving Sewer, gas, water, conduit Waterworks, dam, and reser- voir Railroad Foundation Other classes 8	5 5 3	71, 210 52, 419 48, 265	196, 526 282, 098 179, 047	1, 745, 393 1, 225, 806 938, 713	504, 656 521, 001 220, 691	GRAND RAPIDS	2 121	1, 188 328, 378	2, 705 1, 543, 369	60, 280 13, 841, 850	13, 215 3, 528, 381
Other classes ⁹	3 319	267, 026	1, 549, 173	2, 589, 301 60, 217, 038	804, 076	Classification of establish- ments					
Subcontractors Carpentering and wood floor- ing Concreting Elevator construction Heating and plumbing Plumbing and heating com- Plumbing and heating com- bined.	15	3, 129	1, 607, 447 17, 429 38, 141		566, 366	General contractors ⁷	61 47	202, 925 34, 230	1, 234, 412 221, 657	9, 271, 657 6, 696, 470 5, 773, 158	2, 288, 135 1, 492, 784
Electrical Elevator construction	7 46 4	26, 683 7, 344	183, 646 17, 568	8, 814, 381 2, 697, 867	444, 316 2, 816, 641 246, 385	Building Building not specialized 7 Residential building only	34 13 5	32, 286 1, 950 103, 642	213, 929 7, 728 510, 482 263, 457 288, 816	5, 773, 158 923, 312 1, 164, 141	1, 363, 844 128, 940 425, 019
Heating and plumbing Heating and piping 4 Plumbing	103 26 55	11, 422	407, 970 122, 411 191, 898	17,063,062 5,978,377 7,044,023	3, 752, 927 1, 300, 423 1, 616, 140	Street paving Other classes 4	5 4 5	50, 657 14, 390		923, 312 1, 164, 141 738, 933 672, 113	184, 809 185, 523
Plumbing and heating com- bined Masonry	22 21	21, 819	93, 661 67, 489	4, 040, 662 3, 797, 986	836, 364 1, 477, 625	Subcontractors Electrical	60 10 20	125,453 1,520 7,145	308, 957 15, 958 105, 786	4, 570, 193 543, 873	$\substack{1,240,246\\129,237\\360,812}$
Painting and decorating and Glass and glazing Plastering and lathing	22 9 11	20, 382 990	84, 238 19, 117 30, 889	3, 797, 986 1, 905, 656 1, 095, 242 1, 301, 027	1, 477, 625 905, 282 213, 189 626, 227	Electrical. Heating and plumbing. Heating and piping. Plumbing.	10 10	7, 145 3, 020 4, 125 935	84, 205 21, 581 3, 400	1, 831, 648 1, 380, 962 450, 680	245, 977 114, 835 47, 215
Masoury. Painting and decorating ⁴ Glass and glazing Plastering and lathing. Roofing and sheet-metal work. Roofing Sheet-metal work	34 15 7	32, 377 13, 677	236, 496 93, 264 72, 211	5, 781, 425 2, 062, 899 1, 984, 411	$\begin{array}{c} \mathbf{1, 642, 248'}\\ \mathbf{367, 639}\\ \mathbf{723, 592} \end{array}$	Painting and decorating Roofing and sheet-metal work	4 6 6	4,004 2,709	12,560 21,401	132, 647 297, 682 483, 970	139, 588
Roofing and sheet metal com- bined	12 9	8 485	71, 021 294, 418			Plumbing Masoury Painting and decorating Roofing and sheet-metal work. Marble, tiling, and plastering Excavating and grading Motal work, n. e. s. ⁴ Other classes ⁶	5000	4, 994 98, 146 6, 000	14, 297 124, 155 10, 525	550, 022 373, 732 217, 235 139, 384	195, 026 101, 860 101, 600 33, 065
Stonework Marble and tiling	4	2,001	67, 095 39, 129	1, 158, 912	249, 763 708, 540	Percentage of equipment	3		875	139, 884	
Excavating Ornamental iron ¹⁰ Other classes ⁶	5 5	58, 818 2, 859 88, 533	70, 628 200, 024	$\begin{array}{c} 1,734,115\\6,126,553\\1,158,912\\2,457,824\\699,381\\2,308,993\\1,487,370\end{array}$	166, 153 887, 602 481, 260	owned General contractors 7	61	202, 925	1, 234, 412	9, 271, 657	2, 288, 135
Percentage of equipment owned			ы. С. С. С. С.			None 1% to 25% 26% to 50%	4			267, 082	4, 386
General contractors 7		1, 349, 670	6, 958, 292	136, 085, 189 13, 221, 600	27, 217, 081 852, 760	Barbarn contractors 1% to 25% 28% to 50% 51% to 75% 76% to 99% 100%	3 5 49	2, 731 14, 543 185, 651	104, 150 28, 802 1, 101, 460	705, 219 585, 220 7, 714, 136	$148,978 \\ 222,373 \\ 1,912,398$
None. 1% to 25%. 26% to 50%. 51% to 75%. 76% to 99%. 100%. Not reported.	9 5 5	3, 466	9, 958 27, 535 76, 642	$136,085,189\\13,221,600\\4,430,251\\485,244\\4,127,882\\40,877,817\\70,049,707\\8,600,687$	229, 345 109, 582 244, 902	Subcontractors	 ao	125, 453	308, 957	4, 570, 193	1, 240, 246
76% to 99% 100% Not reported	52 123 14	435, 316	27, 535 76, 642 1, 527, 104 5, 276, 570 40, 483	40, 877, 817 70, 049, 707 2, 892, 688	10, 439, 572 15, 111, 254 229, 665	None 1% to 25% 26% to 50%	3.			278, 897	78, 696
Subcontractors	319 15	423, 796	1, 957, 447		16, 148, 207 1, 027, 423		3 52	12, 893 111, 634	26, 603 280, 116	128, 490 4, 089, 567 73, 780	27, 499 1, 112, 726
Subcontractors	4	3, 315 5, 771 72, 862	9 105		66, 465 229, 301	Not reported	2	926	280, 116 2, 238	73, 780	21, 325
76% to 99% 100% Not reported	24 254 18	72, 862 269, 083 72, 765	56, 487 372, 403 1, 321, 858 197, 594	192, 159 1, 073, 488 8, 092, 408 44, 845, 385 2, 331, 909	2, 016, 629 12, 125, 591 682, 888						
	10	12,100	107,004	2,001,009	002,000			l			

Includes vebicular subway and tunnel.
 Includes levee.
 Includes foundation; and central station, light and power plant.
 Includes pipe covering; and automatic temperature control.
 Includes flooring, miscellaneous, n. e. s.

⁶ Includes bridge and culvert; soundproofing; and foundation.
⁷ Includes operative builders.
⁸ Includes grading, and vehicular subway and tunnel.
⁹ Includes dredging, river and harbor, etc.; and bridge and culvert.
¹⁰ Includes metal work, miscellaneous, n. e. s.

TABLE 7.-WAGE EARNERS, BY MONTHS, AND WAGES PAID DURING 1929

	Estab-		NUMBER	EMPLOY	ED ON 1	5TH DAY	OF THE M	10NTH 0	R NEARE	ST REPRI	ESENTAT	IVE DAY-	-	
CLASSIFICATION OF ESTABLISHMENTS AND LENGTH OF WORKING WEEK	lish- ments report- ing	Janu- ary	Febru- ary	March	April	May	June	July	August	Sep- tember	Octo- ber	Novem- ber	Decem- ber	Wages paid during year
MICHIGAN	1, 286	25, 107	23, 921	26, 682	81, 940	37, 702	42, 341	44, 780	46, 689	45, 618	42, 221	35, 987	26, 399	\$68, 749, 940
Classification of establishments							•			-	·		· · · · · · · · · · · · · · · · · · ·	
Operative builders	32	283	298	333	. 331	441	488	521	552	453	335	258	183	814, 937
General contractors Building Building not specialized Commercial building only Manufacturing building only	592 309 273 13 3	12. 933 9, 133 8, 375 84 35	12. 639 9, 122 8, 396 59 17	14, 890 10, 938 9, 957 117 25	19,274 12,834 11,592 147 28	23, 680 14, 413 12, 898 274 55	27, 945 15, 292 13, 715 294 40	30, 347 15, 866 14, 158 387 49	31,740 16,370 14,710 387 40	30, 269 15, 116 13, 495 398 40	26, 750 13, 603 12, 391 221 50	21, 738 12, 292 11, 210 163 43	14, 731 9, 412 8, 631 145 33	$\begin{array}{r} 41, 480, 773\\ 24, 435, 952\\ 22, 104, 941\\ 357, 798\\ 55, 452\end{array}$
General contractors Building Building not specialized Commercial building only Manufacturing building only Residential building only Highway ¹ Bridga and culvert Grading Street paving Sewer, gas, water, conduit Dam and reservolr Waterworks	110 71 15 11 28 35 5	639 459 32 74 645 1,707 40	650 381 29 61 700 1, 681 25	839 561 96 101 603 1, 722 37	$1,067 \\ 1,367 \\ 166 \\ 160 \\ 1,183 \\ 2,207 \\ 62$	1, 186 2, 609 205 247 1, 935 2, 555 62	1,2433,9542912732,9543,03469	1,2724,6962813113,3263,500121	$\begin{array}{c c}1,238\\5,225\\321\\329\\3,529\\3,523\\106\end{array}$	$1,183 \\ 5,129 \\ 345 \\ 283 \\ 3,363 \\ 3,469 \\ 121$	941 4,098 375 284 2,881 3,015 104	$\begin{array}{r} 876 \\ 2,238 \\ 248 \\ 195 \\ 2,002 \\ 2,627 \\ 79 \end{array}$	603 727 169 97 860 2,136 52	$\begin{smallmatrix} 1, 917, 761\\ 3, 635, 346\\ 265, 742\\ 344, 402\\ 3, 562, 629\\ 6, 199, 643\\ 156, 102 \end{smallmatrix}$
Dredging river, harbor, etc. ³ Railroad Other classes ³	11 6 4	168 400 138 137	$187 \\ 260 \\ 65 \\ 128$	135 375 95 137	283 658 213 141	328 833 291 202	450 854 592 182	449 979 679 139	031 813 748 145	673 871 737 162	033 907 705 145	486 836 504 171	329 559 254 136	665, 493 1, 235, 200 686, 001 294, 263
Subcontractors Carpentering and wood flooring Concreting Electrical Heating and plumbing Heating and plumbing Plumbing Plumbing and heating combined Automatic sprinkler systems Masonry.	$ \begin{array}{c} 11\\ 102\\ 5\\ 264\\ 57\\ 119\\ 85\\ \end{array} $	$11, 891 \\ 287 \\ 198 \\ 1, 945 \\ 214 \\ 4, 270 \\ 2, 013 \\ 1, 281 \\ 907 \\ 69 \\ 421$	10, 984 297 237 1, 546 202 3, 908 1, 910 1, 072 851 69 429	11,4592942151,6342143,7471,7721,08683950475	$12, 335 \\ 334 \\ 249 \\ 1, 599 \\ 202 \\ 4, 088 \\ 1, 803 \\ 1, 283 \\ 033 \\ 69 \\ 721 \\ 852$	13, 581 303 337 1, 708 195 4, 414 1, 932 1, 423 908 61 980	13,908 338 303 1,718 4,718 2,163 1,388 1,109 58 952	13,9124154201,5581884,8632,3531,3841,09234922	14,3973995541,5471825,2272,7181,4111,07627848	14, 806 359 355 1, 494 5, 808 3, 213 1, 434 1, 124 37 844	15,1363143581,4471886,3953,8191,3201,3201,3201,10453904	$13,991 \\ 317 \\ 249 \\ 1,454 \\ 207 \\ 5,766 \\ 3,297 \\ 1,268 \\ 1,099 \\ 102 \\ 1,051 \\ 1,0$	11,4852331,731,2664,7462,6541,08095755742	$\begin{array}{c} 26,454,230\\ 596,842\\ 548,301\\ 3,742,396\\ 323,901\\ 9,647,332\\ 4,801,218\\ 2,715,548\\ 2,014,246\\ 116,320\\ 1,625,177\end{array}$
Automatic sprinkler systems Painting and decorating s Glass and glazing Plastering and lathing Roofing and sheet metal work Roofing and sheet metal combined Steel erection Marble and tiling Excavating and weeking Ornamental iron Grading and highway Soundproofing Metal work, n. e. S	40 8 19 88 48 17 23 13 7 27 16 5 3 3 4 3	$\begin{array}{c} 632\\ 105\\ 374\\ 1,061\\ 316\\ 400\\ 345\\ 1,090\\ 174\\ 480\\ 104\\ 211\\ 2\\ 62\\ 16\\ 155\\ 165\end{array}$	614 93 415 1,104 352 420 332 957 133 480 219 153 6 73 4 40 219 0 73 4 104	$\begin{array}{c} 722\\ 91\\ 480\\ 1,190\\ 447\\ 389\\ 354\\ 1,036\\ 143\\ 470\\ 308\\ 176\\ 15\\ 63\\ 15\\ 162\\ \end{array}$	852 88 387 1,323 551 420 352 1,038 220 468 355 139 60 56 16 140	928 89 506 1, 376 033 858 385 1, 052 186 435 416 137 80 61 18 300	$\begin{array}{c} 933\\ 92\\ 428\\ 1,418\\ 657\\ 361\\ 400\\ 1,003\\ 172\\ 452\\ 393\\ 126\\ 85\\ 61\\ .17\\ 361\\ \end{array}$	875 89 533 1, 377 637 360 374 1,088 177 537 450 120 87 58 58 19 19 136	$\begin{array}{r} 857\\ 94\\ 705\\ 1,429\\ 623\\ 413\\ 398\\ 1,085\\ 180\\ 546\\ 411\\ 117\\ 91\\ 55\\ 19\\ 251\\ \end{array}$	$\begin{array}{r} 842\\ 95\\ 630\\ 1,415\\ 588\\ 392\\ 435\\ 1,078\\ 238\\ 500\\ 136\\ 80\\ 59\\ 21\\ 190\\ \end{array}$	840 80 624 1, 832 372 428 1, 092 184 502 406 110 60 83 21 97	$\begin{array}{c} 609\\ 84\\ 458\\ 1,329\\ 482\\ 389\\ 458\\ 987\\ 176\\ 483\\ 327\\ 116\\ 39\\ 72\\ 26\\ 241\\ \end{array}$	$502 \\ 84 \\ 386 \\ 1,094 \\ 878 \\ 324 \\ 302 \\ 772 \\ 106 \\ 459 \\ 192 \\ 109 \\ 24 \\ 56 \\ 26 \\ 270 \\ 109 \\ 24 \\ 56 \\ 270 \\ 109 \\ 24 \\ 56 \\ 270 \\ 100 \\ 270 \\ 100 \\ 100 \\ 20 \\ 270 \\ 100 \\ 100 \\ 20 \\ 270 \\ 100 \\ $	1, 471, 695 105, 401 1, 138, 960 2, 485, 208 899, 763 768, 678 1, 765, 668 330, 061 1, 057, 110 603, 053 327, 331 72, 086 140, 301 492, 366
Length of working week	Ŭ	100			110	000	001						. 210	402,000
General contractors 7 40-hour, 5-day week	2	$13,216 \\ 123 \\ 14 \\ 14 \\ 14 \\ 14 \\ 14 \\ 14 \\ 14 \\ 1$	12,937 170 17 17 17	15, 223 167 18 14	19, 605 166 17 18	24, 121 216 17 29	28, 433 251 25 32	30, 868 309 23 57	32, 292 323 23 56	30, 722 280 29 55	27, 085 855 21 36	21, 09 6 217 15 28	14, 914 139 10 17	42, 295, 710 391, 488 28, 473 57, 113
All other 5-day week 44-hour, 51/2-day week 49/2-hour, 51/2-day week 55-hour, 51/2-day week All other 5/2-day week 48-hour, 6-day week 54-hour, 6-day week 60-hour, 6-day week All other 6-day week All other of dasignated Not reported	159	2, 649 810 75 2, 675 609 3, 961 1, 272 800 200 14	2, 744 848 30 2, 558 518 4, 227 1, 185 456 143 24	$\begin{array}{c} 3,230\\ 038\\ 60\\ 3,025\\ 677\\ 4,918\\ 1,464\\ 518\\ 148\\ 46\\ \end{array}$	$\begin{array}{c} \textbf{3,773}\\ \textbf{1,191}\\ \textbf{70}\\ \textbf{3,444}\\ \textbf{783}\\ \textbf{6,320}\\ \textbf{2,698}\\ \textbf{789}\\ \textbf{264}\\ \textbf{72} \end{array}$	4,401 1,039 90 8,591 1,017 7,714 4,811 1,271 315 110	$\begin{array}{r} 4,708\\ 1,180\\ 98\\ 3,890\\ 1,105\\ 8,742\\ 6,257\\ 1,570\\ 356\\ 225 \end{array}$	$\begin{array}{r} 4,672\\993\\09\\4,075\\1,304\\9,932\\7,254\\1,542\\305\\213\end{array}$	4,598 1,143 104 4,550 1,369 10,124 7,717 1,712 384 189	4, 372 1, 131 107 4, 230 1, 253 9, 477 7, 673 1, 638 372 105	$\begin{array}{c} 4,125\\ 1,264\\ 118\\ 3,549\\ 1,290\\ 7,634\\ 6,716\\ 1,490\\ 362\\ 125\\ \end{array}$	$\begin{array}{c} 3,823\\ 1,301\\ 120\\ 3,416\\ 1,148\\ 6,014\\ 4,501\\ 1,035\\ 260\\ 112\\ \end{array}$	$\begin{array}{c} 2,797\\ 930\\ 78\\ 2,958\\ 736\\ 4,200\\ 2,090\\ 764\\ 133\\ 56\end{array}$	$\begin{array}{c} 6, 604, 576\\ 2, 008, 382\\ 141, 506\\ 6, 238, 359\\ 1, 822, 954\\ 15, 457, 521\\ 6, 867, 450\\ 1, 857, 346\\ 420, 397\\ 220, 085 \end{array}$
Subcontractors	662 40 2 1	11, 891 658 7 2	10, 984 720 6 1	11,459 711 8 1	12, 385 655 11 2	18, 581 656 13 2	13, 908 024 17 2	13, 912 670 17 2	14, 397 686 15 2	14, 896 690 22 2	15, 136 637 24 2	13, 991 526 19 2	11, 485 557 14 2	26, 454, 230 1, 321, 202 22, 780 4, 215
50-hour-5-day week All other 5-day week 44-hour, 51%-day week 55-hour, 51%-day week All other 54%-day week All other 54%-day week 54-hour, 6-day week 54-hour, 6-day week All other for day week All other for day week All other for day week	394 17 3 75 51 30 15 14 2 9	$\begin{array}{c} 6,479\\ 248\\ 30\\ 1,919\\ 633\\ 1,577\\ 96\\ 169\\ 5\\ 68\\ \end{array}$	5,685 304 30 1,767 539 1,599 94 151 6 82	6,010 275 40 1,846 616 1,554 113 168 43 74	6, 629 273 32 1, 955 631 1, 617 207 193 42 88	7, 350 314 33 1, 921 821 1, 824 277 200 58 106	7, 344 323 33 1, 991 037 2, 012 246 213 67 99	7, 136 334 41 2, 042 808 2, 225 251 213 71 102	7, 100 302 44 2, 133 918 2, 493 260 216 62 106	7, 238 343 49 2, 122 877 2, 877 272 216 112 76	7, 826 813 59 2, 021 728 3, 867 236 204 120 99	7, 121 328 44 1, 797 814 2, 789 149 178 110 114	5, 733 254 28 1, 517 760 2, 259 05 163 30 73	14, 485, 603 559, 087 103, 769 3, 030, 101 1, 567, 793 3, 880, 634 324, 285 348, 017 69, 004 142, 140

TABLE 7.-WAGE EARNERS, BY MONTHS, AND WAGES PAID DURING 1929-Continued

Deccm- ber 14, 028 122 7, 722 4, 373 3, 905 109 209 119 497 1, 904 204 80 345 6, 184	\$43, 458, 515 540, 492 20, 373, 745 16, 544, 609 14, 446, 923 22, 651, 134 870, 322 (61, 134 2, 299, 108 5, 768, 470 504, 666
122 7, 722 4, 373 3, 095 109 269 119 497 1, 904 200 204 80 345	540, 492 26, 373, 745 16, 544, 609 14, 446, 923 227, 364 870, 322 651, 134 2, 299, 108 5, 768, 470 504, 656
$\begin{array}{c} 7,722\\ 4,373\\ 3,095\\ 109\\ 269\\ 119\\ 497\\ 1,904\\ 200\\ 204\\ 80\\ 345 \end{array}$	$\begin{array}{c} 26, 373, 745\\ 16, 544, 609\\ 14, 446, 923\\ 227, 364\\ 870, 822\\ 651, 134\\ 2, 299, 108\\ 5, 768, 470\\ 504, 656\end{array}$
$\begin{array}{c} 7,722\\ 4,373\\ 3,095\\ 109\\ 269\\ 119\\ 497\\ 1,904\\ 200\\ 204\\ 80\\ 345 \end{array}$	$\begin{array}{c} 26, 373, 745\\ 16, 544, 609\\ 14, 446, 923\\ 227, 364\\ 870, 822\\ 651, 134\\ 2, 299, 108\\ 5, 768, 470\\ 504, 656\end{array}$
4, 373 3, 995 109 269 119 497 1, 904 200 204 80 345	
3,095 109 269 119 497 1,904 200 204 80 345	14, 446, 923 227, 364 870, 322 651, 134 2, 299, 108 5, 768, 470 504, 656
269 119 497 1,904 200 204 80 345	870, 322 651, 134 2, 299, 108 5, 768, 470 504, 656
497 1,904 200 204 80 345	2, 299, 108 5, 768, 470 504, 656
200 204 80 345	504, 656
80 345	521, 001
6, 184	220, 691 864, 076
1 7 2 2 2 2	16, 544, 278
223 142	573, 843 444, 316
801 185	2, 895, 921 323, 961
$1,336 \\ 481 \\ 529$	3, 821, 703 1, 324, 459
529 326 698	1,662,937 834,307
354	1, 488, 705 1, 107, 490 184, 925
304	899, 607 1, 681, 203
182	1, 031, 203 406, 594 723, 592
292	551, 017
120	278, 938 802, 868
90	166, 153
56	338, 645 140, 301 432, 366
7, 844	26, 014, 237
10	163, 089 28, 473
	8, 113
425	3, 313, 177 1, 562, 127
1,422	6,000 3,363,862 1,523,558
3, 307	13, 526, 865 2, 288, 018
401	985, 800
3	20, 056
6, 184 458	16, 544, 278
5	
3,901	10, 836, 090
26	276, 926 87, 769
592	87, 769 2, 203, 462 1, 252, 245 385, 112 102, 278
:89	385, 112 102, 278
	195, 739 52, 031
	1,960,437
18	136, 960
520	1, 011, 510
364	811, 967
170	811,967 87,001 380,554 214,558 115,990
418 62	114, 558 115, 996 100, 992 90, 730 202 690
26 79	100, 982
	354 78 78 304 609 182 195 292 383 301 90 114 56 270 7,844 39 00 7 7,844 30 7 7 425 2 1,422 1,50 1 111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

See footnotes at end of table.

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TABLE 7.-WAGE EARNERS, BY MONTHS, AND WAGES PAID DURING 1929-Continued

OF LOUDINAMIAN AN NOW LAT ANY ANY ANY	Estab- lish-	·	NUMBER	EMPLOY	ED ON 15	TH DAY	of the M	ONTH OI	NEARE	ST REPRE	SENTAT	IVE DAY-	-	Wages paid
CLASSIFICATION OF ESTABLISHMENTS AND LENGTH OF WORKING WEEK	ments report- ing	Janu- ary	Febru- ary	March	April	May	June	July	August	Sep- tember	Octo- ber	Novem- ber	Decem- ber	during year
FLINT-Continued.														
Length of working week														
General contractors 7	33	498	423	497	690	716	875	1,008	1,074	1,038	.940	808	538	\$1, 148, 470
40-fibur, 5-day week				······										
All other 5-day week		010	150	128	201	184	276	279	274	250	373	341	245	
491/2-hour, 51/2-day week				50	51	41	40	33	35		44	41		470, 362
All other 5/2-day week	7	63	43	83 20	95 35	84 37	$125 \\ 41$	148 65	196 67	179 61	137 40	100 29	100 10	66, 131 140, 049
54-hour, 6-day week	7	126	178	202 14	279 21	315 48	288 100	400 77	417 79	414 97	303 50	275 22	$153 \\ 17$	64, 591 337, 240 65, 876
All other 6-day week	í					7	5	6	6	4	2			4, 221
General contractors 7														
Subcontractors. 40-hour, 5-day week. 45-hour, 5-day week. 50-hour, 5-day week. 41-hour, 54-day week. 41-hour, 54-day week. 40-y-hour, 54-day week. 55-hour, 54-day week. All other 54-day week. 48-hour, 6-day week. 54-hour, 6-day week. 54-hour, 6-day week. All other 6-day week. All other 6-day week. All other not designated. Not reported.	34	. 417	363	371	401	430	423	468	556	502	509	422		811,967
45-hour, 5-day week														
All othér 5-day week44-hour, 5½-day week	23	296	240	236	252	254	258	282	359	310	854	282	274	508, 499
49½-hour, 5½-day week 55-hour, 5½-day week	2	49	53	41	35	42	58	73	68	. 69	27	45	30	95, 690
All other 5½-day week 48-hour, 6-day week	2	18 28	19 20	20 20	20 19	· 27 20	22 19	17 27	26 29	28 24	28 31		11 20	50, 869 62, 799 20, 075 59, 263
54-hour, 6-day week60-hour, 6-day week	1	5 21	3 24	13 35	$\frac{24}{41}$	25 46	20 32	17 37	14 44	10 45	11 44	9 27	7	20, 075 59, 263
All other 6-day week All other not designated														
							14	15	21	16	14	17	5	14,772
GRAND RAPIDS	123	1,493	1, 468	1, 622	1,979	2,095	2, 383	2, 893	2, 685	3,012	2, 890	2, 435	1, 914	3, 541, 803
Classification of establishments General contractors ⁷		000	0.57	000	1.004	1 010	1	1.00	1 070	0 107	0.017	1 007	1, 284	0.070.700
		869 708 650	857 687 623	903 732 660	1, 234 899	1, 316 928 841	1, 588 1, 021 924	1, 621 958 863	1,952 1,124	2, 187 1, 241 1, 153	2, 047 1, 297 1, 221	$1,677 \\ 1,248 \\ 1,177$	1,061 995	2, 272, 723 1, 483, 100 1, 338, 500
Residential building only	13	58 114	64 103	72 114	819 80 200	87 201	07 281	95 319	1,030 94 382	451	76 400	1, 177 71 224	66 117	144,600
Building not specialized ⁷ Residential building only Highway and grading Street paving Other classes ¹³	54	15 32	14 53	16 41	54 81	201 71 116	119 167	191 153	302 144	335 160	213 137	89 116	14 92	425, 019 204, 081 160, 523
Subcontractors		624	609	719	745	779	795	772		825		758	630	
Electrical	1 11	76 235	64 193	66 197	74 198	76 192	74 215	72 209	733 71 217	84 249	843 87 275	80 264	78 221	1, 269, 080 136, 459 382, 424
Heating and plumbing Heating and piping Plumbing Masonry	11 12	165 70	126 67	139 58	128 70	125 67	148 67	151 58	162 55	181 68	210 65	201	154 67	258, 592 123, 832
Masonry Painting and decorating	4	21 45	25 56	47	45 107	38 120	46 118	$\frac{23}{100}$	24 91	24 88	275 210 65 28 93	28 70 74	$12 \\ 59$	47, 215 139, 588
Painting and decorating Roofing and sheet-metal work Marble, tiling, and plastering	6 5	47 84	47 98		69 85	76 85	79 89	85 126	85 113	90 144	78 135	104	64 99	131, 843 195, 026
Marble, tiling, and plastering. Excevating and grading. Motal work, n. e. s ¹⁴	3	66 40	68 45	53 101	79 72	84 92	81 76	93 36	87 14	91 30	92 35	76 39	40 41	101,860 101,600
	3	10	13	13	16	16	17	.28	31	25		23	16	33, 065
Length of working week General contractors '			6 . . .				1 100	1 001		0.10	2,047	1, 677	1, 284	2, 272, 723
40-hour, 5-day week		869	857	903	1, 234	1, 316	1, 588	1, 621	1, 952	2, 187	2,047	1,0//	1, 201	
45-hour, 5-day week 50-hour, 5-day week	((
All other 5-day week 44-hour, 5½-day week 49½-hour, 5½-day week	3	6	6	10	10	12	26	71	70	96	112	83	73	73, 279
55-hour, 5½-day week						814	789	697	867	997	984	966	849	1, 120, 878
All other 514-day week 48-hour- 6-day week		628	573	602	785				462	504	401	225	111	402.437
54-hour, 6-day week	6	94 124	112 139 4	136 113 4	170 210 4	$ \begin{array}{r} 187 \\ 242 \\ 6 \end{array} $	287 339	346 369	421	488 40	409 40	272 30	172 20	476, 318 33, 600
All other 6-day week All other not designated	1 1 2	4 7 6	· 7 16	7 31	8 47	8 47	6 8 133		20 8 104	8 54	7 94	7 94	-7 52	9, 551 156, 660
Not reported		624	609	719	745	779	795	772	733	825	843	758	630	1, 269, 080
40-hour, 5-day week 45-hour, 5-day week	6	64	63	75	49	46	48	86	66	115	112	82	83	133, 759
50-hour, 5-day week														
44-hour, 51/2 day week 491/2 hour, 51/2 day week	36	276	257	292	334	329	348	314	310	331	356	845	286	523, 459
55-hour, 5½-day week		166	168	190	205	218	231	230	248	249	235	213	181	387, 358
All other 51/2-day week 48-hour, 6-day week 54-hour, 6-day week	15 1 4	100 2 99	103 2 105	2 139	200 4 131	161	6 141	10 110	$\frac{4}{83}$	4 100	6 106	4 96	2 59	6, 240 171, 392
DT-HOULT, D-URY WEEK		2	105	139	10	8	13 8	12	10	14	16	12	:19	22,916
60-hour, 6-day week	$1\\1$	15	$1\bar{2}$	12	12	12	8	10	12	12	12	6		23, 965

Includes vehicular subway and tunnel.
Includes levee.
Includes central station, light and power plant; and foundation.
Includes pipe covering, and automatic temperature control.
Includes flooring, miscellaneous, n. e. s.
Includes bridge and culvert; and foundation.
Includes operative builders.
Includes grading; and vehicular subway and tunnel.

Includes bridge and culvert; dredging, river, harbor, etc.
Includes metal work, miscellaneous, n. e. s.
Includes building; highway; and sewer, gas, water, and conduit.
Includes bridge and culvert; sewer, gas, water, and conduit.
Includes bridge and culvert; sewer, gas, water, and conduit.
Includes bridge and culvert; sewer, gas, water, and conduit.
Includes steel erection.
Includes carpentering and wood flooring; glass and glazing.

TABLE S.-EXPENDITURES OF REPORTING ESTABLISHMENTS: 1929

	ę.		PRINCIPAL I	TEMS OF EX	PENDITURE			OTHEI	R ITEMS O	F EXPENI	DITURE		
	tents 1g	Value of construc-				Sal	aries	Ren	t for			Com-	
CLASSIFICATION OF ESTABLISHMENTS	Establishments porting	tion business reported	Subcon- tract work let	Wages paid	Cost of materials	Proprie- tors and firm mem- bers	Employ- ees	Equip- ment	Offices, *etc.	Interest	Contract bond pre- miums	pensa- tion and liability insur- ance pre- miums	All other overhead expenses
MICHIGAN	·	\$297, 585, 818	\$72, 060, 000						\$1,421,345	\$1,499,801		\$1,864,035	\$18, 576, 306
Operative builders		12, 154, 132 187, 695, 450	6, 941, 000 62, 687, 000	-	3, 054, 279 54, 195, 001	u ·		J	30, 432 384, 328	· ·	891	15,446	372, 143
General contractors	614 431	128, 835, 170	54, 340, 000	24, 592, 406	36, 193, 499	691, 995 473, 618	5,037,195	93,002	256,048	395, 214	246,468	627, 243	8,935,250 3,097,818
Commercial building only	276	1, 267, 819	401,000	256,700	468,848	380, 912 4, 750	27, 312	3,207	1,500	9,629	305	5,946	2,422,947 22,296
Highway 1	142 70	16, 135, 400	7, 412, 000 4, 107, 000	3, 559, 919	4, 216, 913	87,956 86,540	514, 268 591, 796	294,034	53, 804 30, 447	89, 380	136,068	104,784	652, 575 1, 661, 485
Grading	14	841, 934	129,000	258, 493 234, 090	105,662	11 3,900	42, 199	5,342	1 600	3, 754	2,403	4.496	72, 287 210, 362
Sever, gas, water, conduit	27	15, 411, 610	3, 143, 000 549, 000	3, 590, 458 6, 205, 731 156, 102	5, 655, 680 5, 449, 584 64, 077	26, 526	524, 925	63, 640	28, 597	92,871	186, 900 185, 568 3, 859	134,869	1,407,359 910,822
Waterworks	5 8 10	2,904,112	5,000 169,000 140,000	755, 493	1, 383, 936	31, 272	35, 267 166, 393 166, 111	23, 761	2, 136	16,534	24,896	41,909	71, 519 209, 575 1, 120, 689
Genoral contractors Building Building not specialized Commercial building only Residential building only Bridge and culvert Grading Street paving Sower, gas, water, conduit Dam and reservoir Waterworks Dredging, river, harbor, etc. ² Railroad Other classes ³	6		71,000	686, 001	222, 279	5, 987	174, 772	2) - 36, 396	9,036	4,796	2, 739	30,086	121, 284
Subcontractors	661			25, 234, 253	44, 923, 379		6, 317, 790	326, 900	1, 006, 585	676, 721	76.572	552,701	9,268,913
Subcontractors	17	1, 218, 226	233,000 14,000	497, 567	332, 865	II 6,760) 99,107	7 1,047	6, 149	2,812	2, 432	10,445 7,168	81, 088 128, 788
Concreting Electical Elevator construction Heating and plumbing Heating and piping Plumbing Plumbing and heating combined. Automatic sprinkler systems	97 5	2,986,664	126,000	323, 961	2, 121, 033		35, 271	l	2,789	1	440	10, 118	27,408
Heating and plumbing Heating and piping '	275	9, 195, 187	93, 000	1, 914, 720	17, 244, 091 5, 409, 892	53, 200	468,866	3 850	74,603	23, 804	10, 21	1 28,797	460, 037
Plumbing and heating combined.	128 90	11, 904, 092 9, 647, 210	297, 000 540, 000	[2, 122, 813]	5, 123, 728	198, 516	503, 158	31,637	69,449	38, 169	11, 542	38,411	535, 528
Automatic sprinkier systems Masorry Painting and decorating ⁵ . Class and glazing Plostering and lathing Roofing and sheet-metal work Roofing and sheet metal combined. Steel arcetion. Stonework	25	483, 025 4, 080, 132	168,000	1, 594, 438	186, 185 1, 781, 395	15,240	25, 064 295, 319	99,777		320 409, 100	1, 292	1, 677 32, 175 21, 074	19, 036 139, 986
Class and glazing	35 10 20		2,000 72,000 217,000	1, 288, 447 228, 317 1, 158, 900	577, 485	2,553	95, 717	' 10,000	16,866	11, 143 2, 597 7, 746	2, 100 27 1, 032	4,391	92, 784
Roofing and sheet-metal work	20 87 47	9, 638, 357 4, 411, 237	10,000	2, 466, 475	3, 951, 741	85,608	164, 451 857, 504 477, 837	18	103, 584	53, 787	2, 225	76,078	1,002,768
Sheet-metal work	17	2, 763, 112 2, 464, 008	3,000	918, 706 • 762, 973	1, 998, 109 1, 003, 228 950, 404	33, 202 27, 002	154, 557 225, 110		35,067	11, 782 14, 425		23, 815	293, 771
Steel erection	13	12, 743, 307 1, 453, 879	154,000 93,000		6, 596, 388 632, 234	12,600	677, 643 156, 138	11, 280	14, 373	20, 550	1,661	106, 389	1, 763, 191 70, 354
Marble and tiling	28 14	3, 655, 711	25,000	1, 007, 107	1, 456, 850 34, 613	57, 366	328, 367	169	62, 481	7, 969 14, 804	251	10, 179	367, 681 497, 333
Stonework Marble and tiling Excavating and wreeking Ornamental iron Metal work, n. e. s Other classes ⁶	6	2, 162, 183		876, 288 1, 529, 217	539, 099 1, 440, 588	8,060 5,466	169, 023	497	20, 469	9,044		18, 180 14, 284	275, 695 1, 874, 759
Other classes 6	<u>6</u>	1, 540, 370	216,000	496, 032	417, 815		93, 010	18, 449	8, 846	4, 988	17, 156	38,088	210, 172
DETROIT		203, 681, 070	56, 794, 000 6, 197, 000	45, 448, 335 475, 414	65, 202, 188 2, 109, 728	803, 989 23, 280	9, 515, 949		877, 544	648, 248 81, 614	·	1, 102, 785	12, 146, 407 340, 813
General contractors	232		48, 619, 000 41, 790, 000	26, 556, 630 15, 806, 062	33, 204, 365 22, 870, 664	279, 183	4, 789, 350 3, 454, 823	298, 273 73, 807	291, 912 199, 046	398, 152 203, 806	482, 283 146, 740	691, 248 415, 610	5, 089, 808 1, 944, 281
Building Building not specialized	103	78, 177, 210	36, 147, 000	14, 744, 065	19, 977, 643	152, 393	3, 104, 603	68.549	154,092	113,050	146,080	390, 899 3, 625	1, 516, 311 19, 545
Commercial building only Residential building only Highway ?	71	10, 655, 045	5, 336, 000	922, 633	2, 690, 353	42, 280	334, 748	2,436 103,926	10,456	82, 037 10, 552	660	21, 086 20, 359	408, 425 316, 107
Street paving		11, 599, 138	2, 823, 000 512, 000	2, 351, 274	3, 853, 321 4, 724, 385	4, 111 13, 520	495, 582 415, 094	5, 144	35, 878 26, 245	63, 084 83, 448	136, 650 161, 460	36,540 110,429	978, 886 742, 125
Waterworks, dam and reservoir Railroad	5		171.000	504,656	786, 021 170, 479	31,272	69, 989 136, 072	18, 835	2, 536 7, 836	14, 734 2, 196 20, 332	14,859	34, 694 27, 426	70, 462 88, 284 949, 663
Other classes 8	. 4 336	2, 928, 625	8,000	978, 252 18, 410, 201			102, 736	35, 193	9, 915	20, 332			949, 663 6, 715, 786
Subcontractors Carpentering and wood flooring Concreting	10		233, 000		1,437,529	16,958	140, 496	2,720	14, 916 5, 520	8, 196 1, 173		9,842 5,252	75, 058
Concreting Electrical Elevator construction	51 5	8, 949, 467 2, 986, 664	44,000 120,000	2, 859, 745 323, 961	222, 493 3, 614, 981 2, 121, 033		876, 772 35, 271		88, 969 2, 789 123, 400	13, 093	6, 506	45,309	489, 345 27, 408
Heating and plumbing. Heating and piping 4	109 29	17 010 100	0 CO 000	3.962.197	2, 121, 033 9, 929, 145 3, 588, 905	$153, 612 \\ 16, 222 \\ 73, 479$	1, 037, 704 338, 159	1, 546 250	40, 309	52,576 13,641	15, 087 2, 275	10, 118 63, 827 18, 287 28, 568	942, 537 286, 227
Heating and plumbing Heating and plumbing Plumbing Plumbing and heating combined	55 25	7, 467, 334 4, 235, 272	256,000 361,000	1, 363, 199 1, 724, 668 874, 330	4, 047, 555 2, 292, 685	73, 479 63, 911	240, 287	96 1, 200	67,091 16,000	19,447 19,488	8, 241 4, 571	28, 568 16, 972 30, 009	489, 345 27, 408 942, 537 286, 227 447, 390 208, 914
Plumbing and learing combined Masonry- Painting and decorating s. Plastering and lathing Roofing and sheet-metal work Roofing and sheet-metal work Roofing and sheet-metal com- bined	19 22	0, 207, 592 7, 467, 334 4, 235, 272 3, 825, 882 2, 034, 008	166, 000 2, 000	874, 330 1, 483, 070 971, 279 206, 189	9, 029, 140 3, 588, 905 4, 047, 555 2, 292, 685 1, 680, 879 445, 145 527, 131 393, 576 2, 422, 008 1, 079, 531 602, 628	10, 300 30, 683 2, 553 39, 720 46, 572 11, 700	290, 819 205, 788	10, 085	16,068	8,377	15, 087 2, 275 8, 241 4, 571 1, 292 2, 100	30,009 16,693	132, 976 160, 946 83, 237 70, 386
Glass and glazing Plastering and lathing	22 8 14	1, 910, 065	190, 000	899.0071	527, 131 393, 576	2, 553 39, 720	89,717 131,143	1, 073	14, 850 11, 801 76, 243	2, 350 5, 082	961	3,937	83, 237 70, 386
Roofing and sheet-metal work	35	5, 975, 251 2, 186, 050		1, 676, 429 381, 827	2, 422, 008 1, 079, 531	46,572	472, 760 216, 755		76, 243 24, 723 29, 510	31,084 11,473	1, 441 135	12,848	616, 912 199, 909 220, 237
Roofing and sheet-metal com-	8	2, 055, 086		743, 585	002, 020	1, 100	111, 252				1 90.0	19,753 17,578	
Steel erection	12	1,734,115 6,126,553 1,218,502	82,000	551, 017 963, 773 278, 938 834, 368 166, 153 876, 288 1, 490, 640	649, 909 2, 929, 559	17, 442 10, 200	144, 753 250, 415	18 6, 824 5, 485 150	22, 010 13, 087 11, 931	8, 703 4, 125 737	1, 306 1, 661 485	62,777 5,156 8,337	196, 766 1, 084, 265 51, 823
Marble and tiling	5 19	1, 218, 506 2, 887, 707	93, 000 24, 000	834, 368	1, 174, 152	38, 386 10, 517	130, 438 264, 610 19, 711	150	54, 033.	3, 574 7, 989	175 254	8, 337 3, 654	51, 823 272, 379 241, 424
' Ornamental iron	5	699, 381 2, 162, 183 4, 532, 751	94, 000 	876, 288	2, 929, 339 517, 858 1, 174, 152 13, 508 539, 099 1, 419, 357 410, 582	8,060 5,466	169, 023 104, 811	110, 878 407	26, 469 65, 389 8, 486	9,044 5,659		18,180 13,937	275, 695 1, 867, 437 200, 172
Steel erection Stonowork Marble and tiling. Excavating. Ornamental iron. Metal work, n. e. s. Other classes 9.	35	1, 487, 370	203, 000	481, 260	410, 582		86, 190	18, 449	8, 486	4,988	17, 156	37, 688	200, 172
FLINT	64	8, 760, 899	1, 594, 000	1, 876, 567	8, 716, 311	59,772	348, 875	1, 384	48, 875	26, 071 980	13, 242	43, 640	454, 172
Operative builders General contractors ¹⁰	8 27	532, 770 5, 016, 773	15, 000 1, 543, 000	116, 960 968, 412	302, 807 1, 810, 942	650 6,750	10, 240 172, 312	1, 240	660 8, 192		10, 357	1,975	214, 824
Subcontractors	34			791, 195	1, 602, 562	52, 372 9, 100	166, 323 23, 109	144	$ \begin{array}{r} 40,023 \\ 10,920 \end{array} $	8, 977 929	2, 885 839	22, 880 853	232, 227 29, 656
Electrical Heating and plumbing Plumbing	5 16 9	3, 210, 856 350, 138 1, 473, 540 776, 704	8, 000 5, 000	857, 119 214 559	826, 563 415, 042	31,972 9,056	23, 109 71, 600 46, 902	109	20, 692	3, 189	1, 080 1, 080	5.230	29, 656 77, 881 33, 820
Plumbing and heating combined. Roofing and sheet-metal work	7			701, 195 87, 001 357, 119 214, 558 142, 561 100, 992 90, 790	411, 520 178, 221	22,916 4.800	24, 698 47, 274	1091	8, 449 12, 243 4, 547	715	445	2,337 3,158	44,061 76.902
Plumbing Plumbing and heating combined. Roofing and sheet-metal work Marble, tilling, and plastering Other classes ¹¹ .	34	468, 129 247, 273 671, 776	14,000 13,000	90, 780 155, 353	$1, 810, 942 \\1, 602, 562 \\143, 444 \\826, 563 \\415, 043 \\411, 520 \\178, 221 \\93, 002 \\361, 242$	6, 500	1,000 23,340		504 3, 360	461	71	984 12, 655	7,002
	+ T	· · ·	. <u> </u>		· • •	ı i	1						

TABLE S.--EXPENDITURES OF REPORTING ESTABLISHMENTS: 1929-Continued

	reporting		PRINCIPAL I	TEMS OF EX	PENDITURE			OTHE	R ITEMS (OF EXPEN	DITURE		
		Value of construc-				Sal	aries	Ren	t for			Com- pensa-	
CLASSIFICATION OF ESTABLISHMENTS	Establishments	121 \$18, 488, 710	Subcon- tract work let	Wages paid	Cost of materials	Proprie- tors and firm mem- bors	Employ- ees	Equip- ment	Offices, etc.	Interest	Contract bond pre- miums	tion and liability insur- ance pre- miums	All other overhead expenses
GRAND RAPIDS	121	\$18, 488, 710	\$2, 433, 000	83, 343, 417	84, 935, 870	\$157, 588	\$892, 101	\$40, 061	\$58, 089	\$74, 737	\$51, 776	\$98, 359	\$1, 107, 849
General contractors ¹² Building not specialized ¹² Residential building only Highway and grading Street paving Other classes ¹³	59 45 32 13 5 4	6, 431, 770 5, 508, 458 923, 312	2, 404, 000 2, 292, 000 1, 946, 000 346, 000 20, 000 92, 000	$\begin{array}{c} \textbf{2, } 153, \textbf{199} \\ \textbf{1, } 350, 576 \\ \textbf{1, } 221, \textbf{636} \\ \textbf{128, } 940 \\ \textbf{425, } 019 \\ \textbf{204, } 081 \\ \textbf{173, } 523 \end{array}$	2, 166, 467 1, 835, 031 331, 436 235, 199 351, 229	77, 894 60, 140 50, 240 9, 900 12, 094 5, 660	340, 242 312, 758 27, 484 57, 351	3, 794 19, 615	720 1, 844 2, 042	17,242 14,505 11,281 3,895	15, 364 56 9, 408 9, 296	41, 447 37, 209 4, 238 15, 878 9, 154	114,07622,409349,562107,832
Subcontractors Electrical Heating and plumbing Plumbing Painting and decorating Rooiing and sheet-metal work. Marble, tiling, and plastering Metal work, n. e. 8. ¹⁶ Other classes ¹⁶	11 22 12	1, 631, 886 1, 195, 085 436, 801 105, 147 207, 682	11,000 11,000 8,000	$\begin{matrix} 1, 190, 218\\ 136, 459\\ 323, 927\\ 217, 349\\ 106, 578\\ 33, 254\\ 139, 588\\ 131, 843\\ 211, 538\\ 101, 600\\ 112, 009 \end{matrix}$	293, 430 907, 021 693, 499 213, 522 51, 730 09, 246 177, 790 251, 714 65, 691	14,766 5,460	115,09190,11524,9764,5005,28088,369	600 600 60 19	5, 550 960 1, 921 7, 794	7, 323 6, 137 1, 186 134 321 5, 445 3, 725	484 5, 054 5, 054 292 76	$\begin{array}{c} 6,710\\ 4,273\\ 2,437\\ 904\\ 2,240\\ 4,136\\ 2,278\\ 1,802\\ \end{array}$	107,973 71,491 36,482 1 850

Includes vehicular subway and tunnel.
Includes levee.
Includes foundation; and central station, light and power plant.
Includes pipe covering and automatic temperature control.
Includes doring, miscollaneous, n. e.s.
Includes grading; and vehicular subway and tunnel.
Includes grading; niver and harbor, etc.; and foundation.

Includes bridge and culvert; soundproofing; and foundation.
Includes building; highway; and sewer, gas, water, and conduit.
Includes painting and decorating; steel erection; excavating; and grading.
Includes operative builders.
Includes bridge and culvert; sewer, gas, water, and conduit.
Includes plumbing and heating combined.
Includes steel erection.
Includes steel erection.
Includes carpentering and wood flooring; glass and glazing; and excavating.

TABLE 9.—COST OF MATERIALS FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929, BY KIND

	COST	OF M.	TERIAI.	S REPORTEI) BY		COST O	F MA	TERIALS	REPORTED	вт
	All classes me	of est onts	ablish-				All classes me	of est onts	ablish-		
KIND OF MATERIAL	Amount	Per cent dis- tribution	Per \$1,000 construction ¹	General contrac- tors ²	Subcon- tractors	KIND OF MATERIAL	Amount	Per cent dis- tribution	Per \$1,000 construction ¹	General contrac- tors ²	Subcon- tractors
MICHIGAN						MICHIGAN-Continued					
All kinds of material Distribution not reported	\$115, 430, 564 19, 365, 758	16.8	\$456, 26	\$00, 280, 844 11, 702, 972	\$55, 149, 720 7, 662, 786	All kinds of material—Continued. Distributed by kind—Contd. Electrical appliances and sup-	:		н н. Н н.		
Distributed by kind. Sand, gravel, stone, slag, cin-	96, 064, 806	100, 0		48, 577, 872	47, 486, 934	pliesElevators, dumb-waiters, and	\$5, 676, 129	5.9	\$26, 96	\$358, 137	\$5, 317, 992
ders, etc. Brick (face, common, fire, pay-	9, 043, 061		}			equipment Pipe: Draintile, vitrified, con-	2, 169, 886	2,3	10, 31	28, 776	2, 141, 110
ing, etc.) Tile (fireproofing) Tile, facing, terra cotta, floor	4, 874, 728 1, 130, 411	5.1 1,2	23, 15 5, 37	4, 667, 883 519, 462	206, 845 610, 949	crete, segment tile, corru- gated Pipe: Cast-iron, sheet and tube	1, 986, 194	2, 1	9, 44	1, 931, 801	54, 393
The, facing, terra colta, floor and wall Concrete and einder block	1, 044, 439 792, 891	1.1	4, 96 3, 76	433, 348 599, 848	193.043	Wire cable, guards, and fencing_ Bituminous paying materials,	1, 341, 867 154, 662	1,4	6.37 .73	994, 882 100, 765	346, 985 53, 897
Out stone, granite, and marble. Riprap, rubble, etc Cement	2, 197, 510	2,3 (3)	10.44	1, 305, 097 25, 098	892, 413 7, 570	ter asphalt, and oil	859, 600 80, 648	1	4,08	848, 187	11,413
Lime	309.939	3	1.47	8, 166, 079 200, 919 878, 452	109.020	Wood piling and timber Ready-mixed concrete	80, 648 145 721, 915	(8)	1 (1)	145	
Plaster, etc Structural steel Reinforcing steel Cast iron, miscellaneous (ex-	1, 148, 742 7, 857, 138 2, 224, 398	1.2 *8,2 2,3	37.32 10,57	1, 976, 089	5, 881, 049 84, 452	Machinery Freight, hauling or trucking to job	117, 944	. 1	56		75, 717
cluding pipe)	447, 245		1 11	185, 153		job Cast forms, beads, etc. Chomicals and chemical prod- ucts.	602 1, 739	(· · ·)	(4)	77	602 1,662
Metal doors, windows, and trim	819, 252 362, 821	.9	3.89 1.72	445, 593 237, 937		Metal products, n. e. s. (in- cluding metal furniture)	1, 092, 748	1		100 B (100 B)	
Ornamental motal work	651,875 7,758,061	.7	3, 10	311, 871	340,004	Minoral modulets (nonmatal.	4, 502 34, 886	(3)	. 02	1,937	
Lath, shingles, and shakes (wood) Millwork	356, 938 2, 909, 464	.4 3.0	$1.70 \\ 13,82$	227, 368 2, 087, 633	129,570 821,831	lic), n. e. S. Sealing materials. Textiles and calking materials Miscellancous	34, 886 16, 642 1, 937, 450	(3)	. 16 . 08 . 9, 20	6,642	10,000
Composition board Waterproofing materials Hardware, rough and finished.	392, 563	$^{+4}_{-2}$	1,87	151, 994 123, 705	240, 569 80, 916	DETROIT					
Paints, varnishes, glass Roofing and sheet metal	$\begin{array}{r} 962,258 \\ 1,810,638 \\ 4,313,426 \end{array}$	1.9	8.60	875, 774 552, 523 273, 420	1,258,115	All kinds of material Distribution not reported	67, 582, 604 9, 169, 671	13.6	443.86	36, 918, 657 5, 057, 239	30, 663, 947 4, 112, 432
Finished flooring other than ce- ment, wood, or tile	417, 585 524, 003	. 4	1.98 2.49	289, 248 96, 203	128,337 427,800	Distributed by kind Sand, gravel, stone, slag, cin-	58, 412, 933	100. 0		31, 861, 418	26, 551, 515
Screens, shades, awnings, etc Heating and ventilating equip- ment.	15, 386, 667			90, 203 289, 347	1	ders, etc Brick (face, common, fire, pay-				5, 447, 470	
Plumbing and gas-fitting equip- ent	5, 415, 946			· · ·	4, 874, 003	ing, etc.) Tile (fireproofing)	3, 852, 849 923, 922	6.6 1.6	29.28 7.02	3, 669, 377 313, 590	183, 472 610, 3 3 2

TABLE 9.—COST OF MATERIALS FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929, BY KIND—Continued

	COST (DF MA	TERIALS	REPORTED	BY-		COST O	F MAT	FRIALS	REPORTED	BY
	All classes						All classes			<u>MEIOMIED</u>	
		nts			ĺ			nts			
KIND OF MATERIAL		Per cent dis- tribution	Fer \$1,000 construction ¹	General contrac-	Subcon- tractors	KIND OF MATERIAL		Per cent dis- tribution	Per \$1,000 construction ¹	General contrac-	Subcon- tractors
	Amount	cent	struc	tors ²	. drastors		Amount	cent	ar \$1, struc	tors ²	tractors.
		Per	Pe					Per	COLE COLE		
DETROIT-Continued						FLINT-Continued					
All kinds of material—Continued. Distributed by kind—Contd.						All kinds of material-Continued. Distributed by kind-Contd.					
Tile, facing, terra cotta, floor, and wall- Concrete and cindor block	\$741, 315 531, 031	1,3 .9		\$258, 568 359, 372	\$482, 747 171, 659	Lath, shingles, and shakes (wood)	\$16, 460	0.6 2.3	\$3.23 11.76	\$16, 466	
Cut stone, granite, and marble.	1, 608, 321 8, 267	28	4, 03 12, 22 , 06	859, 667 697	748, 054 7, 570	Millwork Composition board Waterproofing materials	59, 978 1, 433 2, 982	. 1		1,433	
Riprap, rubble, etc Coment Lime	4,087,707	(3) 7.0	31.06 1.12	3, 838, 176	249, 531 72, 808	Hardware, rough and finished Paints, varnishes, glass	38, 590 76, 296	1, 5	7.57 14.96	38, 590 25, 496	\$50, 800
Plaster, etc	911, 431 3, 704, 216 1, 345, 246	1.6	$\begin{array}{c} 6.92 \\ 28.15 \end{array}$	74, 915 742, 361 1, 498, 803	169,070 2,205,413	Hardware, rough and finished_ Paints, varnishes, glass Roofing and sheet motal Finished flooring, other than	193, 434	7.3	37, 93	23, 441	169, 993
Reinforcing steel Cast iron, miscellaneous (ex-	1, 345, 246			1, 266, 272	78, 974	Sereens, shades, awnings, etc.	11, 540 2, 404	.1	2.26 .47	11, 540 2, 404	
Plaster, etc. Structural steel. Reinforcing steel. Cast iron, miscellaneous (ex- cluding pipe). Metal doors, windows, and trib	340, 996 647, 138		2, 59 4, 92	82, 615 275, 006	258, 381 372, 132	Heating and ventilating equip- ment. Plumbing and gas-fitting	245, 163	*9, 3	48.07	19, 059	226, 104
trim Metal and wire lath and fur- ring	231, 289			188, 870	49 410	equipment. Electrical appliances and sup-	437, 518	*16, 5	85, 80	75, 342	362, 171
Ornamental metal work	581, 134 4, 944, 292	1.0 8.5	4,42	248, 157 4, 494, 718	332, 977	Elevators, dumb-waiters, and	176, 399	1	1.1		
(wood)			2.00	138, 500	124, 400	Pipe: Draintile, vitrified, con-	. 32	4 (⁸)	.06	324	
Millwork Composition board	262, 900 2, 002, 297 293, 986 150, 447 555, 093 1, 406, 548 2, 598, 148	3.4 .5 .3	15.22 2.23	1, 206, 555 70, 014 72, 451	795, 742 223, 972	crete, segment tile, corru- gated Pipe: Cast-iron, sheet and	7, 169	. 1	1, 41	7, 169	
Hardware, rough and finished.	555, 093	1.0 2.4 4.4	$1.15 \\ 4.22 \\ 10.69$	471, 746	83, 847	tube steel, etc	25, 327	7 1.() (³) 2 (³)	4.97	22, 327 200	3,000
Waterproofing materials Hardware, rough and finished Paints, varnishes, glass Roofing and sheet metal Finished flooring, other than	1			365, 509 91, 468	2, 506, 680	Cast forms, beads, etc	. 602		.12 7.80		602
Screens, shades, awnings, etc	318, 649 487, 882	.5	2, 42 3, 71	192, 363 67, 479	120,286 420,403	GRAND RAPIDS					
Heating and ventilating equip-	4, 420, 047			177, 506	4, 242, 541	All kinds of material Distribution not reported	5, 286, 802 981, 071	18.6	438, 63	3, 202, 842 727, 678	2, 083, 960 253, 397
Plumbing and gas-fitting equip-	3, 034, 488	5.2	23, 06	274, 206	2, 760, 282	Distributed by kind	4, 305, 727			2, 475, 164	1,830,563
Electrical appliances and sup- plies Elevators, dumb waiters, and	3, 950, 025	6.8	30, 01	238, 124	8, 711, 901	Sand, gravel, stone, slag,	396, 714			383, 209	13, 415
equipment. Pipe: Drain tile, vitrified, con-	2, 149, 520	3.7	16, 33	8, 410	2, 141, 110	Brick (face, common, fire, paving, etc.) Tile (fireproofing)	180, 742	4.2	18, 41 2, 91	167, 107 28, 208	13, 635 400
crete, segment tile, corru-	1, 186, 441	2,0	9, 01	1, 147, 933	38, 508	Tile, facing, terra cotta, floor and wall	28,608				
Pipe: Cast-iron, sheet and tube steel, etc.	807, 818 109, 336		6.14	567, 877	$239,941 \\51,897$	Concrete and einder block	89, 118 7, 510 50, 538	2.1 .2 1.2	.76 5.15	4,810	2,700 11,497
Wite cable, guards, and fencing Bituminous paving materials, tar, asphalt, and oil			, 83 4, 37	57,439 563,112	11, 413	Cut stone, granite, and marble. Riprap, rubble, etc Cement	500 349, 222	(3) 8.1 .7	. 05 35. 58	337, 307	11, 915
Wood piling and timber Machinery	574, 525 70, 477 715, 672	1, 2	. 54	70, 477 549, 672	166,000	Lime Plaster, etc Structural steel	50, 538 500 349, 222 28, 364 60, 905 139, 147 81, 460	.7 1.4 3.2	0.21	16, 769 13, 921 93, 277	12,595 46,984
Freight, hauling or trucking to job	80, 266		. 61	5, 659	74, 607	Reinforcing steel Cast iron, miscellaneous (ex-	139, 147 81, 460	3.2	8, 30	80, 910	45, 870 550
Chemicals and chemical prod-	1, 705	(8)	. 01	43	1, 662	cluding pipe)	8, 874	.2	. 90	8, 874	
Metal products, n. e. s. (in- cluding metal furniture) Mineral products (nonmetal-	1, 074, 750	1.8	8, 17	151, 131	923, 619	trim. Metal and wire lath and fur-	36, 761				200
lic), n. e. s	1, 012 34, 783	1	. 01 . 27 . 12	1, 012 34. 783		ornamental metal work	19, 590 4, 990 552, 519	1 1	2,00 .51	3,094	16,813 1,896
Textiles and caulking materials. Miscellaneous	15, 942 1, 778, 962	(*)	$12 \\ 13.52$		10, 000 65, 589	Lumber, rough and finished Lath, shingles, and shakes (wood)	01.000	, r			10, 772 5, 170
FLINT	0.000.005		518.94	2, 228, 855	1, 7 77, 830	Millwork.	168, 689 26, 377 1, 139 52, 367 89, 581 180, 866	3.9 0	17.19	142,900 15,482	25, 789 10, 895
All kinds of material Distribution not reported	3, 936, 685 1, 290, 332	32.8	010.94	980, 835	309, 497	Hardware, rough and finished	1, 139 52, 367	.6 (3) 1,2 2,1 4,2	5. 33	774 52, 216	365 151
Distributed by kind	1			1, 248, 020	1, 398, 333	Roofing and sheet metal	89, 581 180, 866	2.1 4.2	9, 13 18, 43	13, 895 13, 466	75, 686 167, 400
cinders, ctc Brick (face, common, fire, paving, etc.)	72, 498		14, 22	63, 969	8, 529	Finished flooring, other than cement, wood, or tile	4, 005 12, 803	1	, 40 1, 30	3,200 5,406	805 7, 39 7
Tile (fireproofing)	68, 976 10, 627	2,6 .4	$13.52 \\ 2,09$	68, 976 10, 627	*****	Heating and ventilating equip- ment	684, 133		M	28, 413	655, 720
Tile, facing, terra cotta, floor and wall	57,800	2.2 1,4	11, 33 7, 23	15, 800 36, 881	42, 000	Plumbing and gas fitting equipment	851, 761	· · ·	1.1	33, 778	317, 983
Concrete and cinder block Cut stone, granite, and marble_ Cement	36, 881 14, 474 65, 788	2.5	2,84	9,874 60,521	4,600 5,267	Electrical appliances and sup- plics Pipe: Drain tile, vitrified, con-	325, 188		33, 13	24, 072	301, 116
Lime	65, 788 10, 175 50, 995 343, 687	.4 1.9	1.99	7,917 21,126	5, 267 2, 258 29, 869	crete, segment tile, corrugated.	247, 456	5.7	25, 21	245, 577	1, 879
Plaster, etc Structural steel Reinforcing steel	343, 687 11, 076	†13.0 .4	67.39 2,17	10, 087 10, 876	833, 600 200	Pipe: Cast-iron, sheet and tube steel, etc	12, 293 9, 863	. 2	$1,25 \\ 1,00$	2, 335 9, 803	9, 958
Cast iron, miscellaneous (ex- cluding pipe)	2, 208		1.1	530	1, 678	Bituminous paving materials	56, 009	1.3	5.71	56,009	
Metal doors, windows, and trim Motal and wire lath and furring	2, 800		. 55	2, 800		ucts Metal products, n. e. s. (in-	34		(⁴)	34	1 104
furring Ornamental metal work	8, 783 7, 434	1.31	1, 72 1, 46	3, 158 7, 434	5, 625	cluding metal furniture)	4, 184 103 21, 415	(3)	. 43 . 01 2, 18	103	4, 184 2, 281
Lumber, rough and finished	546, 252	20.6	107, 12	·····		Miscellaneous	····	· · · · · ·	أحصبهم		

¹ The value of construction work done is obtained from figures presented in Table 1 by subtracting the value of subcontract work let from the total value of construction business. ³ Includes operative builders. ⁴ Loss than one-tenth of 1 per cent ⁴ Less than 1 cent. ⁶ The high percentage of total cost shown for this item is due to the fact that business of establishments reporting this material constituted a large part of the total business reported for this area. ⁶ The percentage of total cost shown for this item is high because establishments located within this area reported that a large part of their construction work (on which this material was used) was done on contracts outside this area.

TABLE 10.—COMPARISON OF COST OF DESIGNATED MATERIALS FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929, WITH COST OF MATERIALS AND VALUE OF CONSTRUCTION BUSINESS

[Based exclusively upon reports of establishments which gave the distributed cost of materials]

							to which gave the distribution of						
	2	COST OF D MAT	ESIGI			of all 7 own			COST OF D MAT	ESIG1 ERIAL			of all own
	Cost of all			cent	Value of	per cent c s done by		Cost of all			cent f	Value of	per cent of done by
KIND OF MATERIAL AND CLAS- SIFICATION OF ESTABLISH-	materials distrib-			[construc- tion busi-	per don	KIND OF MATERIAL AND CLAS- SIFICATION OF ESTABLISH- MENTS	materials distrib- uted by				construc- tion busi-	per s doi
MENTS	uted by kind	Amount	cost	of all buted rials	ness	ated iness e ¹	MENTS	kind	Amount	l cost	of a bute erials	ness	sines ce 1
			Total	Cost of all distributed materials		Indicated p business (force ¹				Total	Cost of all distributed materials		Indicated p business force 1
						I	MICHIGAN-Continued						
MICHIGAN Sand, gravel, stone slag,							Cut stone, granite, and						
cinders, etc.							marble	000 004 000	AD 107 #10	100.0		100 100 OF9	70.0
All classes					\$267, 190, 052		All classes					\$267, 190, 052	
General contractors ² Building Building not specialized ²	48, 577, 872 32, 710, 012 28, 711, 587	8, 673, 021 2, 753, 948 2, 579, 020	30.5	8.4	116, 942, 497	56.3	General contractors ² Building Building not specialized ²	32, 710, 012	1, 305, 097 1, 229, 161 1, 175, 866	55.9 53.5	3.8 4.1	⁵ 167, 299, 657 116, 942, 497 104, 761, 295 790, 337	56.3 56.2
Commercial building only. Manufacturing building	355, 122	27, 116		7.6	790, 337		Manufacturing building	300, 122	16, 100	.8	[]		
only Residential building only	29, 354 3, 613, 949	141, 330	1 1 6	22.1 3.9	78, 277 11, 312, 588	66.3 55.3 91.4	only Residential building only Street paving	29, 354 3, 613, 949 4, 907, 040	291 34, 848 71, 076	(³) 1.6 3.2		78, 277 11, 312, 588 14, 513, 941 14, 042, 657 1, 968, 376 938, 713	66.3 55.3 80.9
Highway Bridge and culvert Grading	211, 558	76,020	(3)	54.1 35.9 43.4	741,884	88.0	Sewer, gas, water, conduit Waterworks Foundation	4, 909, 310 873, 323	$\frac{128}{4,618}$	(*)	(⁸) . 5	14, 042, 657 1, 968, 376	96.4 94.2
Street paving Sewer, gas, water, conduit Dam and reservoir	7,999 4,907,040 4,909,310	1,940,130 1,554,886	17.2	39.5 31.7	14, 513, 941 14, 042, 657	80.9 96.4			114		(3)		
Dam and reservoir Waterworks	39, 904 873, 323	1, 235		8.1 6.3 70.2	105,492	1 98.9	Subcontractors Concreting Masonry Stonework Marble and tiling	1 642 697	892, 413 1, 395 57, 817 583, 999 249, 202	40.6 1 2.6	1.9 .6 3.5	*99,890,305 858,789 3.647,110	1 99.0
Waterworks Dredging, river, harbor, etc Levce Railroad	103, 502 248, 853 200, 370	36, 261	.4	14.6 28.6	804,866	83.9	Stonework Marble and tiling	632, 234 1, 263, 208	583, 999 249, 202	26.6 11.3	92.4	1,394,285	93.6 99.3
Central station, light and	000,402	41,601		11. 1	938, 713	99.1	Cement					-	
power plant. Vehicular subway and tun-	82, 035						All classes				6.7	267, 190, 052	76.8
nel	110, 428 447, 486, 934			· .	⁵ 99, 890, 395		General contractors ² Building Building not specialized ² . Commercial building only. Manufacturing building	48, 577, 872 32, 710, 012	6, 166, 079 2, 685, 606	95.2 41.5	12.7 8.2	⁸ 167, 299, 657 116, 942, 497 104, 761, 295	65. 0 56. 3
Concroting Heating and plumbing	222, 528 120, 449, 349	67, 380 526	1 . 1	7 30.3 (3) (3)	858, 789 37, 534, 424	99.0 98.0	Building not specialized ² Commercial building only.	28, 711, 587 355, 122	2, 584, 650 16, 649	39.9 .3	9.0 4.7	104, 761, 295 790, 337	56. 2 72. 6
Concreting Heating and plumbing Plumbing Plumbing_ and heating combined	5, 470, 570 1, 175, 765			1.32	10,005,220		nlyResidential building only				22, 5 2, 2	11.312.588	55.3
Masonry Plastering and lathing Roofing and sheet-metal	1, 642, 697 556, 970	154,790	1.1	(³) 9.4 9.8	2, 036, 796 3, 647, 110 1, 757, 533	96.0 91.5	Highway	3, 818, 046	77, 709 739, 638 17, 854	.3	19.4 8.4	11, 556, 840 741, 884	91.4 99.4
Roofing and sheet-metal work	4 3, 951, 179	1, 504	(3)	(³)	4 9, 654, 355 2, 689, 229		Grading Street paying	211, 558 7, 999 4, 907, 040 4, 909, 310	73 1, 708, 345 850, 555	(3) 26,4 13,1	$34.8 \\ 17.3$	$\begin{array}{c} 330, 241 \\ 14, 513, 941 \\ 14, 042, 057 \\ 105, 492 \\ 105, 492 \end{array}$	88.0 80.9 96.4
Roofing and sheet-metal	975, 897 890, 126	1	í l				Dam and reservoir	39,904	1 529	(3)	3.8	. 908. 870	1 191.A
Stonework Marble and tiling	890, 120 632, 234 1, 263, 208	1, 270 8, 751 43, 351		51 8.4	3, 138, 261	1 99.8	Levee Railroad	873, 323 248, 853 200, 370	34,429	.3	6.9 17.2	1, 286, 199	95, 2
Roofing and Sheet-metal work Sheet-metal work Roofing and sheet-metal combined stonework Marble and tiling Excavating Bridge and culvert Foundation Flooring, n. e. s	27, 658	5 14;732 3,600	(³)	2 58.8 24.2 1.5	572, 089 118, 500 477, 062	93.9 100.0 87.0	Bridge and culvert Grading Street paving Sewer, gas, water, conduit Dam and reservoir Waterworks Railroad Foundation Central station, light and power plant Vehicular subway and tun- nel	355, 492 82, 035				938, 713 277, 878	
Foundation	114, 990 180, 872 42, 208	18, 557	1.5	2 10, 3	774, 312	81.9	Vehicular subway and tun- nel	110, 428			1		
Brick (face, common, fire,					/		Subcontractors	447, 486, 934	311, 880	4.8	.7	\$ 99, 800, 395 858, 789	97. 9 99. 0
paving, etc.) All classos	00.004.804	4 874 799	100 (5.1	267, 190, 052	76,8	Subcontractors Concreting Heating and plumbing Heating and piping Plumbing and heating combined Masonry	222, 528 420, 449, 349 13, 508, 951	60, 530 1, 018 550	1 (3)	27.2 (³) (³)	37, 534, 424 24, 605, 537 10, 005, 220	
							Plumbing Plumbing and heating	5, 470, 570	462				1
General contractors ² Building Building not specialized ² . Commercial building only	32, 710, 012 28, 711, 587	2 4, 325, 678 3, 999, 725	88. 82.		⁵ 167, 299, 657 116, 942, 497 104, 761, 295 790, 337	56.3	combined Masonry Plastering and lathing	1, 175, 765 1, 642, 697 556, 970	6 144, 844 5, 670	(³) 2.2	(³) 8.8 1.0	2,036,796 3,647,110 1,757,533	96.0
Manufacturing building only					1		Stonework Marble and tiling	632, 234 1, 263, 208	11,709 48,518		1.9	1, 394, 285	93. 6 99. 3
Residential building only Highway	29, 354 3, 613, 949 3, 818, 040 211, 558 4, 907, 040 4, 909, 310 89 904	4, 830 273, 698 30, 214	l .(3 7.6	11, 312, 588	55.3	Excavating Highway Bridge and culvort	. 27.655	3, 509 3, 960	.2 .7 .1 .1 .1	12.7 26.6	572,080 118,500	93.9
Bridge and culvert Street paving	211, 558 4, 907, 040	8 80 80,861) (3)		14, 513, 941	99.4 80.9	Bridge and culvert Soundproofing Foundation	. 139, 361	3,727 3,281 24,090		8.2 2.4 13.3	118,500 477,062 353,470 774,312 125,139	87.0 99.8 81.9
Sewer, gas, water, conduit Dam and reservoir Waterworks	. 00,005	245, 946 90 19, 750) (³)	1 .2	105,492	96,4 98,9 94,2	Flooring, n. e. s	42, 208	24, 089 1, 025	(3)	2.4	125, 139	100.0
Levee Railroad	. 200,870	4	2 (³)	1 2.1 (⁸)	804, 866 1, 286, 199	83.9	Structural steel *			100.0		007 100 055	2 76.8
Foundation Central station, light and	355, 495	1.1.1		1.1		1 .	All classes General contractors ²		7, 857, 138			267, 190, 052 \$ 167, 299, 657	65 0
power plant	82, 034		1		\$ 99. 890, 39	5 97.9	Building Building not specialized ² -	32,710,012	1,842,234	23.4	5.6	116, 942, 497 104, 761, 295	56.3 56.2
Concreting Heating and plumbing	222, 528	9,366 40) (3)	(8)	858,78	999.0	Commercial building only Manufacturing building	355, 122	2 37, 302			790, 337	72.6
Plumbing Plumbing and heating combined	1 175 765) 20 . 20		(3) (3)	10, 005, 220	97.6	only Residential building only Highway	20, 354 3, 613, 949 3, 818, 040	36, 075 33, 509	5 . 5	3.4 5 1.0 4 .9	11, 312, 588 11, 556, 840	55.3 91,4
Masonry	1, 642, 697	189, 320	3.9	2, 1, 2	3, 647, 110 1, 394, 288	96.0 93.6	Highway Bridge and culvert Street paving Sewer, gas, water, conduit.	211.55	6,428 11.693		3.0	741, 88 14, 513, 94	1 99.4 1 80.9
Stonework Marble and tiling Excavating	. 27,655	187 232	(⁸) (⁸)	(⁸) .8	3, 138, 261	99.3 93.9	Waterworks	873, 323	1,953 35,139	3 (*) 3 .4	4.0	$\begin{array}{c} 78, 27;\\ 11, 312, 588\\ 11, 556, 84(\\741, 884\\ 14, 513, 94;\\ 14, 042, 65;\\ 1, 908, 37(\\1, 280, 196\end{array}$	7 96.4 8 94.2 9 95.2
Foundation	180, 872	255	м (с)	1	1 774, 312	81.9	Railroad	-1 :200,370	9,600	4 •	-1 - -	-, -, -, -, 101	

TABLE 10.—COMPARISON OF COST OF DESIGNATED MATERIALS FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929, WITH COST OF MATERIALS AND VALUE OF CONSTRUCTION BUSINESS— Continued

[Based exclusively upon reports of establishments which gave the distributed cost of materials]

		COST OF D MAT	ESIGN			of all own			COST OF D MAT	ESIGN			of all own
KIND OF MATERIAL AND CLAS-	Cost of all materials		Per	cent	Value of	per cent o	KIND OF MATERIAL AND CLAS-	Cost of all materials		Per	cent	Value of	per cent o s done by
RING OF MATERIAL AND CLASS SIFICATION OF ESTABLISH- MENTS	distrib- uted by kind	Amount	Total cost	Cost of all distributed materials	construc- tion busi- ness	Indicated per business dor force ¹	SIFICATION OF ESTABLISH- MENTS	distrib- nted by kind	Amount	Total cost	Cost of all distributed materials	construc- tion busi- ness	Indicated per business do force ¹
MICHIGAN-Continued					1.1		MICHIGAN-Continued						
Structural steel-Contd.							Lumber, rough and finished—Contd.					• • •	
General contractors—Oontd. Foundation	\$355, 492	\$4,800	0.1	1.4	\$938, 713	99. 1	Subcontractors Carpentering and wood	4\$47,486,934	\$464, 936	6.0	1.0	s \$99,890,395	07, 9
Central station, light and	82, 035		.3	24.0	277, 878	92. 1	Carpentering and wood flooring	1, 447, 318	380, 691	4.9		2, 550, 208	91.4 99.0
Vehicular subway and tun- nel	110, 428	· ·		1	2, 704, 000	1	Carpentering and wood flooring	5, 064, 619	4, 134 4, 134 176 6, 880	(3)		2, 550, 208 858, 789 11, 891, 375 37, 584, 424 24, 665, 537 10, 005, 220	99.6 98.0
Subcontractors. Carpentering and wood		5, 881, 049	1	12.4		1	Heating and piping Plumbing	13, 508, 951 5, 470, 570	4,750 2,100	(3)	() () () () () () () () () () () () () (24, 665, 537 10, 005, 220	99.6 97.6
flooring Concreting Electrical	1, 447, 318 222, 528 5, 064, 619	900 6, 735 140	(³) (³)	3, 0 (³)	2,550,208 858,789 11,891,375	99, Ö 99, G	Plumbing and heating combined Masonry	1, 175, 76	5 30 7 32, 280	(3)	(³) 2.0		94.5
Heating and Dhimping	1 20, 449, 549	26,163 26,163		$\frac{1}{3}$.2	⁵ 37, 534, 424 24, 665, 537	99.0	Stonework Marble and tiling Excavating	032, 23 1, 263, 20	1 140	SL (3)		1,304,283 3,138,261	5 93.6 1 99.3
Heating and piping Masonry Roofing and sheet-metal work	1, 642, 697	21, 115		1.3	3, 647, 110		Excavating	27,65	5 239 0 1,800		12.1	572,08	0 93,9 0 100.0
work Roofing and sheet metal combined	4 3, 951, 179 890, 126		1.1	1	⁴ 9, 654, 355 2, 307, 835	1	Flooring, n. 6. S.	180, 873	2 37, 553 8 72{	(3)	5 20.8 1.7	774, 31 125, 13	2 81.9 9 100.0
Ota-1 exection	0 409 100	5, 625, 387 10, 741	71.6	86.6	12, 527, 601	98.8	Millwork		the second				
Stonework Marble and tiling Excevating Ornamental iron Highway Bridge and culvert	1, 263, 208 27, 655	61 10 62		(3)	3, 138, 261 572, 089 1, 005, 115	99.3 93.9 100.0	All classes					267, 190, 05	
Ornamental iron Highway	539,099 14,860 114,990	008 (1 (3)	8.7 4.0 95.0	118, 500	100.0 100.0 87.0	General contractors ² Building Building not specialized ² .	48, 577, 87 32, 710, 01 28, 711, 58	2 2.078.762	71.		\$167, 299, 65 116, 942, 49	7 56.3
roundation	180, 872	109, 220 2 2, 752	(3)	1. 6	774, 312	81.9	Commercial building only Manufacturing building	355, 12	7 1, 795, 446 2 20, 304		5.7	104, 761, 29 790, 33	5 56, 2 7 72, 6
Reinforcing steel	96, 064, 806	2, 224, 398	100. 0		267, 190, 052		only Residential building only.	29, 354	262, 278	9.0	2,5	11, 312, 58	7 66.3 8 55.3
General contractors ² Building	1 52.710.014	2 2, 139, 940 2 1, 221, 055 1, 198, 910	06.2 54.9	4.4	4167, 299, 657 116, 942, 497	65. 0 56. 3	Highway Bridge and culvert	211, 55	R 150	(3)	(³)	741.88	4 99.4
Building not specialized ² . Commercial building only. Manufacturing building	28, 711, 587 355, 122	1, 198, 910 10, 515	53.8	0 4,2 5 3,0	116, 942, 497 104, 761, 295 790, 337	$56.2 \\ 72.6$	Street paving Sewer, gas, water, conduit Central station, light and	4, 907, 040 4, 909, 310	5 8, 000 5 251	(3)	(3)	14,013, 64	7 96.4
only	29,304			2, 3	78, 277 11, 312, 588	66. 3 55. 3	power plant	. 82, 03		1.1	.1		
Highway Bridge and culvert	3, 818, 040 211, 558	64, 474 40, 028	20, 1				Subcontractors Carpentering and wood flooring	47, 486, 93			1	4 99, 890, 39.	
Grading. Street paving	7,999	125,701	(³) 5.7	2.0	330, 241 14, 513, 941	88.0 80.9 96.4			2 300	1 (3)	(3)	858, 78	4 98.0
Waterworks	4, 909, 310 873, 323 248, 853	3 46,044	2.1	1 5.3	1,968,376 804,866	94. 2 83. 9	Heating and plumbing Plumbing	5, 470, 570		(3)	(3)	10,005,22 3,647,11 1,757,53	0 97.6 0 96.0
Residential billing only Highway. Bridge and culvert. Street paving. Street paving. Waterworks. Levee. Railroad. Foundation. Contral station. light and	200, 370	6, 984	I .S	3 3, 5	1,200,100	95.2 99.1	Masonry Plastering and lathing	556, 970) 25	(3)	(³)	1, 757, 53	3 91, 5
Central station, light and power plant		5 9,430	.4	11.0		1	Paints, varnishes, glass All classes	98, 064, 80(1, 810, 638	100. (1.9	267, 190, 05	2 76.8
nei	. 110, 428	8 18, 673			2, 704, 000	18.6			552, 523	30.1			_
Subcontractors Concreting Masonry Steel erection	47, 486, 934 222, 528	84,452 8 8,189 7 41,904		1 3.7	• 09, 890, 300 858, 780 2 647 110	97.9 99.0 96.0	General contractors ² Building Building not specialized ²	.1 28.711.08	7 484 183	26.	$ \begin{array}{cccc} 1.7 \\ 7 \\ 1.7 \\ 1.4 \\ 1.4 \end{array} $	⁵ 167, 299, 65 116, 942, 49 104, 761, 29 790, 33	7 56.3 5 56.2 7 72.6
Steel erection	6, 498, 100 632, 234	4 3, 160 4 130)		12, 527, 601	98.8 93.6	Manufacturing building	000,12	1.1				0
Marble and tiling	1, 263, 208	5 1, 373		1 5.0	572, 080	99.3	only Residential building only Highway	3, 613, 94 3, 818, 04	9 58,197 6 996	3.	11 (3)	11, 312, 58 11, 556, 84	8 55.3 9 91.4
Highway Foundation Flooring, n. e. s	14, 860 180, 87	2 26, 553	2 1.5	2 14.7	118, 500	100.0 81.9 100.0	Bridge and culvert	. 211.55	0 30	(1)	L .0 4 2 .1	741,88	4 99.4 1 88.0 1 80.9
Lumber, rough and	42, 20	004			120,100	100.0	Grading Street paving Sewer, gas, water, conduit Waterworks	4, 907, 04 4, 909, 31 873, 32	0 273			14,042,65	7 96, 4 6 94, 2
finished All classes	96, 064, 80	6 7, 758, 06	1 100. (0 8.1	267, 190, 052	76.8	Railroad Foundation	200, 37	2,500	4 + 4	1.2		9 95.2 3 99.1
General contractors ²	48, 577, 87	2 7, 293, 124 2 6, 829, 555 7 5, 123, 24 2 86, 655	5 94.0 3 88.0	0 15.0	167, 299, 657 116, 942, 497	65. 0 56. 3	Subcontractors. Carpentering and wood		4 1, 258, 115	69. 8	5 2.6	^{\$} 99, 890, 39	1
Building Building not specialized ² Commercial building only Manufacturing building	28, 711, 58 355, 12	$\begin{bmatrix} 5, 123, 24\\ 86, 658 \end{bmatrix}$	7 66. (3 1.]	$ \begin{array}{ccc} 0 & 17.8 \\ 1 & 24.4 \\ \end{array} $		56. 2 72, 6			8,020 732	(3)	1.3	858.78	8 91.4 9 99.0
Manufacturing Duliding only Residential building only	29, 354	4 4, 420		1 15.1	78, 277 11, 312, 588	66. 3 55. 3	Concreting Electrical Heating and plumbing Plumbing Display and heating	222, 528 5, 064, 619 4 20, 449, 349	61 3,070	(^a)	$2 \begin{pmatrix} 3 \\ 3 \end{pmatrix}$	11, 891, 37 37, 534, 42 10, 005, 22	5 99.6 4 98.0
Highway Bridge and culvert	211, 558	4 4, 420 9 1, 615, 228 6 42, 220 8 39, 396		$ \begin{bmatrix} 5 & 1.1 \\ 5 & 18.6 \end{bmatrix} $	11, 556, 840 741, 884	91.4 99.4	Plumbing Plumbing and heating combined	5, 470, 570			1		
Grading	3, 818, 040 211, 558 7, 999 4, 907, 040	59, 290		8 1.2	14, 513, 941	80.9	Masoniy Painting and decorating	1, 175, 760 1, 642, 69 653, 614	180	(⁸)	(3) (3) 1 99.1	2, 036, 79 3, 647, 11 2, 927, 57 1, 124, 59	0 96.0 1 99.3
Dam and reservoir	4,909,310	4 6) (3)	. 2	14,042,657 105,492 1,968,370	98.9 94.2	Glass and glazing	. 577, 488	5 577,488	5 31.9	P 100.0		
Waterworks Dredging, river, harbor, etc Levee	103, 50	2 14.600	1.5	2 14.1 1 4.8	1,086,073	99.7 83.9	Roofing Sheet-metal work	3, 951, 179 2, 085, 150 975, 89	9 1,756 3 1,250 7 92	2 (³)	1 (³) 1 .1	9, 654, 35 4, 657, 29 2, 689, 22	5 99.9 1 99.9 9 99.9
Levee	200, 370 355, 493	3 10, 78 0 33, 48 2 53, 38		16.7 7 15.0		95. 2 99. 1	Roofing and sheet metal	890, 12	1	1	1		
vehicular subway and tun-	. 82, 03	5 18, 172	2	2 22. 2			Marble and tiling Soundproofing	1, 263, 20	1 9,763	(³)	(³) (³) 5 7.0		1 99.3 6 99.8
nel	.1 110, 428	8 50, 200). (6 ¹ 45.6	2, 704, 000	18,6	I Flooring, n. e. S	1 42,20	si 3, 578	3	2 8.1	η 120,14	a 100 . 0

See footnotes at end of table.

South Street Street

TABLE 10.—COMPARISON OF COST OF DESIGNATED MATERIALS FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929, WITH COST OF MATERIALS AND VALUE OF CONSTRUCTION BUSINESS— Continued

[Based exclusively upon reports of establishments which gave the distributed cost of materials]

		COST OF I MAT	ESIG			of all own			COST OF I MAT	DESIG			of all own
KIND OF MATERIAL AND CLAS-	Cost of all materials			cent	Value of	per cent c done by	KIND OF MATERIAL AND CLAS-	Cost of all materials			cent	Value of	per cent c done by
SIFICATION OF ESTABLISE- MENTS	distrib- uted by kind	Amount	Total cost	Cost of all distributed materials	tion busi- ness	Indicated per business dor force ¹	SIFICATION OF ESTABLISH-	distrib- uted by kind	Amount	Total cost	Cost of all distributed materials	construc- tion busi- ness	Indicated per business dor force ¹
MICHIGAN-Continued							MICHIGAN-Continued	.					
Roofing and sheet metal							Plumbing and gas-fitting						
All classes	\$96, 064, 806	\$4, 313, 426	100. 0	4. 5	\$267, 190, 052	76.8	equipment—Continued Subcontractors—Continued.				- x -		e, i
General contractors ² Building Building not specialized ² . Commercial building only. Manufacturing building			5.7 4.0 .5	.8 .6 5.6	1 A A	56. 8 56. 2 72. 6	Roofing and sheet-metal work Roofing and sheet metal combined	4 \$3, 951, 179 890, 126	,		(⁸) 0, 1	4 \$9, 654, 355 2, 307, 835	· .
only Residential building only. Highway	3, 613, 949	122 53, 596 968	1 2	1.5 (3)	78, 277 11, 312, 588 11, 556, 840	66.3 55.3 91.4	Electrical appliances and supplies						
Street paving Sewer, gas, water, conduit Waterworks	4,907,040 4,909,310	14, 500 17	8	(3)	14, 513, 941 14, 042, 657	80. 9 96. 4	All classes					267, 190, 052	76.8
Waterworks Foundation Vehicular subway and tun-	873, 323 355, 492	7,722 46	2	(3) (3)	10, 277 11, 312, 588 11, 556, 840 14, 513, 941 14, 042, 657 1, 968, 376 938, 713	94, 2 99, 1	General contractors ² Building Building not specialized ²	48, 577, 872 32, 710, 012 28, 711, 587	341.6930	6.0	.7 1.0	\$167, 299, 657 \$116, 942, 497 104, 761, 295 790, 337 11, 312, 585 11, 556, 840 14, 513, 941 14, 042, 657 1, 969, 976	65, 0 56, 3 56, 2
nel	1 S S S S S S S S S S S S S S S S S S S			2.7			Besidential building only.	3 613 949	4,230	1.4	1, 2 2, 2	790, 337 11, 312, 588	72.6 55.3
Subcontractors Carpentering and wood	447, 486, 934			-	4 99, 890, 395		Tighway Street paving	3, 818, 040 4, 907, 040	2,000 9,133	(³) .2 .1	.1	11,556,840 14,513,941	91.4 80.9
flooring. Heating and plumbing Heating and pluing Plumbing and heating combined	1, 447, 318 ⁴ 20, 449, 340 13, 508, 951 5, 470, 570	98, 058 65, 613	2.3 1.5 .7	(³) .5 .5	2, 550, 208 37, 534, 424 24, 665, 537 10, 005, 220	91, 4 98, 0 99, 6 97, 6	Highway Street paving Sewer, gas, water, conduit Waterworks Foundation	4, 909, 310 873, 323 355, 492	501	(8) (3)	.1	938, 713	96.4 94.2 99.1 97.9
combined Masonry Roofing and sheet-metal	1, 175, 765 1, 642, 697	500 1,610	(3) (3)	(³)	2, 036, 796 3, 647, 110	94, 5 96, 0	Subcontractors. Electrical Heating and plumbing Heating and piping Plumbing	5, 064, 619 120, 449, 349	5, 038, 402 55, 358	88, 8 1, 0	99.5 .3 .3 .3	11,891,375 * 37,534,424	99.6 98.0
work	3, 951, 179 2, 085, 156	3, 623, 826 2, 001, 193 930, 833		91. 7 96. 0	9, 654, 355	99, 9	Heating and piping Plumbing Plumbing and heating combined	13, 508, 951 5, 470, 570			.3	24,665,537 10,005,220	99. 6 97. 6
Roofing Sheet-motal work. Roofing and sheet metal combined. Steel erection Sound proofing	975, 897 890, 126 6, 498, 100	691, 800 280, 000	16.0 6.5	77.7 4.3	2, 689, 229 2, 307, 835 12, 527, 601	100.0	combined Masonry Marble and tiling Foundation	1, 175, 765 1, 642, 697 1, 263, 208 180, 872	2,608 290 222, 413 1, 529	(3)	(³) 17.6 .8	$\begin{array}{c} 2,036,796\\ 3,647,110\\ 3,138,261\\ 774,312 \end{array}$	94. 5 96. 0 99. 3 81. 9
Heating and ventilating	139, 361	36, 222	.8	26. 0	353, 476	99. 8	Elevators, dumb-waiters and equipment						
equipment † All classes	04 044 906	15 986 667	100.0	18.0	267, 190, 052	76.8	All classes	⁶ 96, 064, 806	2, 169, 886	100. 0	2. 3	⁷ 267, 19 0, 052	76.8
			1.0			65.0	General contractors Building Building not specialized Residential building only	445, 834, 213 429, 966, 353	28, 776 28, 776	1, 3 1, 3	.1	157, 640, 036 107, 282, 876	66.7 67.9
General contractors ² Building Building not specialized ² . Commercial building only. Residential building only.	432,710,012 28,711,587 355,122 3,613,949	285, 847 287, 807 174, 193 3, 500 109, 614	1.9 1.1 (³) .7	, 9 . 6 1. 0 3. 0	\$ 167, 299, 657 \$ 116, 942, 497 104, 761, 295 790, 337 11, 312, 588 1, 968, 376	56.3 56.2 72.6 55.3					1	4 157, 640, 036 107, 282, 876 95, 101, 674 11, 312, 588 4 99, 890, 395	58.1 55.3 97.9
Water works	010,020	2,040	(8)			94.2	Subcontractors Carpentering and wood flooring	1, 447, 318	327	(3)			
Subcontractors Heating and plumbing Heating and piping Plumbing Plumbing and heating	47, 486, 934 420, 449, 349 13, 508, 951 5, 470, 570	15, 097, 320 14, 788, 379 12, 435, 892 1, 737, 260	98, 1 96, 1 80, 8 11, 3	31, 8 72, 3 92, 1 31, 8	 ⁵ 99, 890, 395 ⁵ 37, 534, 424 24, 665, 537 10, 005, 220 	97.9 98.0 99.6 97.6	flooring Elevator construction Heating and plumbing Plumbing	2, 121, 033 4 20, 449, 349 5, 470, 570	2, 121, 033 19, 750 19, 750	97, 7 . 9 . 9	100.0 1 .4	2,550,208 2,986,664 \$ 37,534,424 10,005,220	95.8 98.0 97.6
Combined Automatic temperature	1, 175, 765	507, 349	3, 3	43. 2	2, 036, 796	94.5	Pipe: Drain tile, vitrified, concrete, segment tile, corrugated						
Roofing and sheet-metal work	107, 878 1, 642, 697	107, 878 360		100. 0 (³)	343, 846 3, 647, 110	100. 0 96. 0	All classes	96, 064, 806	1, 986, 194	100. 0	2. 1	267, 190, 052	76.8
Roofing and Sheet-Hetat Roofing and sheet metal combined Steel cretion Steel cretion	3, 951, 179 2, 085, 156 975, 897	133, 398 8, 228 38, 247	.9 .1 .2	8,4 .4 3,9	9, 654, 355 4, 657, 201 2, 689, 229	99. 9 99. 9 99. 9	General contractors ² Building Building not specialized ² Commercial building only Manufacturing building	⁴ 48, 577, 872 32, 710, 012 28, 711, 587 355, 122	1, 931, 801 137, 002 126, 433 200	97.3 6.9 6.4 (³)	4.0 .4 .4	167, 299, 657 116, 942, 497 104, 761, 295 790, 337	65.0 56.3 56.2 72.6
combined Steel erection	890, 126 6, 498, 100 632, 234	86, 923 175, 000 183	1, 1	9.8 2.7 (³)	2, 307, 835 12, 527, 601 1, 394, 285	100.0 98.8 93.6	Manufacturing building only Residential building only	29, 354	180 10, 189	(³)	. 6	78, 277 11, 312, 588 11, 556, 840	66. 3 55. 3
Plumbing and gas-fitting equipment	002,203	100	()		1, 001, 200		Hignway	3, 818, 046	128, 974	6.5	3. 4 (³)	741.8841	91. 4 99. 4
All classes	96, 064, 806	5, 415, 946	100, 0		267, 190, 052	76.8	Grading Street paving	7,999 4,907,040 4,909,310	50 2, 135 80, 755 1, 317, 059	.1 4.1 66.3	26.7 1,6 26.8	330, 241	88.0 80.9 96.4
General contractors ²	448, 577, 872 32, 710, 012	541, 943 478, 489	8.8	$1.1 \\ 1.5$	167, 299, 657 116, 942, 497	65, 0 56, 3	Dam and reservoir Waterworks	39, 904 873, 323 248, 853 200, 370	189, 473	9.5	77.5 21,7	14, 042, 657 105, 492 1, 968, 376	98.9 94.2
Building Building not specialized ² Commercial building only. Residential building only.	28,711,587 355,122	282, 354 3, 992 192, 143	5.2 1 3.5	1,0 1,1	104, 761, 295	56.2 72.6	Levee Railroad	248, 853 200, 370	38, 707 5, 695	1.9	15.6 2.8 .2	804, 866 1, 286, 199	83.9 95.2
Street paving Sewer, gas, water, conduit Waterworks Foundation	4, 907, 040 4, 909, 310	192, 143 30, 103 18, 629 7, 600	.6 .3	. 6	14, 513, 941	55, 3 80, 9 96, 4	Bridge and culvert Grading Street paving Dam and reservoir Waterworks Levee Railroad Foundation Central station, light and power plant	355, 492 82, 035	807 225	(³) (³)	. 3	938, 713 277, 878	99. 1 92. 1
		7, 122	. 1 . 1	2. 0	*167, 299, 657 *116, 942, 497 104, 761, 295 700, 337 11, 312, 588 14, 513, 941 14, 042, 657 1, 968, 376 938, 713	94.2 99.1				2.7		4 99, 890, 395 858, 789	97.9
Subcontractors Heating and plumbing Plumbing and piping Plumbing and heating combined.		4, 874, 003 4, 871, 553 595, 935 3, 511, 901	90.0 89.9 11.0 64.8	10.3 23.8 4.4 64.9	^{\$} 99, 890, 395 ^{\$} 37, 534, 424 24, 665, 537 10, 005, 220	97. 9 98. 0 99. 6 97. 6	Subcontractors Concreting Heating and plumbing Plumbing and heating combined Stonework Highway	222, 528 20, 449, 349 13, 508, 951 5, 470, 570	10, 500 30, 447 1, 165 20, 769	,5 1,5 ,1 1,0	(³).4	24,605,537 10,005,220	99. 0 98. 0 99. 0 97. 6
Plumbing and heating combined Automatic sprinkler sys- tems. Masorry		168, 427	11. 0 3. 1	50, 6 90, 5	2, 036, 796 483, 025	94. 5 95. 9	combined Masonry Stonework Excavating	1, 175, 765 1, 642, 697 632, 234 27, 655	8, 513 3, 516 422 7, 508	(³) (³) (⁴)	.7 .2 .1 27.1	2,036,796 3,647,110 1,394,285 572,089 118,500	94. 5 96. 0 93. 6 93. 9
Masonry See footnotes at end o		.1, 650	(a)	. 11	3, 647, 110	96.0	Highway	14, 860	2,000	· , 1 ¹	.13. 5	118, 500	100.0

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TABLE 10.—COMPARISON OF COST OF DESIGNATED MATERIALS FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929, WITH COST OF MATERIALS AND VALUE OF CONSTRUCTION BUSINESS— Continued

[Based exclusively upon reports of establishments which gave the distributed cost of materials]

<u>.</u>		COST OF D	ESIGN			of all own			COST OF D	ESIGN			of all own
	Cost of all		Per	cent	Value of	per cent of s done by o		Cost of all		Per	cent	Value of	Indicated per cent of business done by o force ¹
KIND OF MATERIAL AND CLAS- SIFICATION OF ESTABLISH- MENTS	materials distrib- uted by	Amount			construc- tion busi- ness	d per ss don	KIND OF MATERIAL AND CLAS- SIFICATION OF ESTABLISH- MENTS	materials distrib- uted by kind	Amount	cost	all ted	construc- tion busi- ness	d per ss dor
	kind		Total co	Cost of all distributed materials		Indicated p business force ¹		, in the second s		Total co	Cost of all distributed materials		dicate busine force ¹
MICHIGAN—Continued						<u>я</u>	DETROIT—Continued			<u> </u>			<u>ц</u>
Pipe: Cast-iron, sheet and tube steel, etc.							Brick (face, common, fire, paving, etc.)					t est	
All classes	\$96, 064, 806	\$1, 341, 867	100. 0		\$267, 190, 052		All classes	\$58, 412, 933	\$3, 852, 849	100. 0	6. 6	\$177, 251, 758	71.7
General contractors ² Building Building not specialized ² Residential building only	448, 577, 872 432, 710, 012	994, 882 55, 352	4.1	2.0	\$ 167, 299, 657 \$ 116, 942, 497	65.0 56.3 56.2	General contractors ² Building Building not specialized ² . Commercial building only.	431, 861, 418 23, 010, 982 20, 826, 505	3,391,929	95. 2 88. 0 82, 3	14.7	118, 281, 000 87, 990, 924 80, 208, 345	51.5
Residential building only.	3, 613, 949 3, 818, 040 211, 558	50, 174 5, 178 21, 727 19	.4	(3)	³ 167, 299, 657 ³ 116, 942, 497 104, 761, 295 11, 312, 588 11, 556, 840 741, 884 14, 513, 941	55.3 91.4 99.4	Commercial building only. Manufacturing building only	08, 950 29, 354	10, 279	.8		239, 606 78, 277	65.5 93.6
Residential building only Highway Bridge and culvert Street paving Sewer, gas, water, conduit Dam and reservoir Waterworks Levee Railroad Foundation Central station, light and power plant	4, 907, 040 4, 909, 310 4, 909, 310 39, 904	80, 989 513, 880	2.3 38.3	10.5	14,042,657	80. 0 96. 4 98. 9	Manufacturing building only Residential building only Highway Bridge and culvort		205, 235 25, 000 80	1 (0)	9.8 6.1	7, 466, 696 1, 354, 698 78, 000	47.6 93.0 100.0
Levee	873, 323 248, 853 200, 370	254,803	19.0 7.8	29.2 42.1	1, 968, 370 804, 866 1, 286, 199	94. 2 83. 9 95. 2	Street paving Sewer, gas, water, conduit. Waterworks Railroad Foundation	3, 080, 624 4, 206, 158 500, 799	1,895 234,739 12,690	6.1	1 2.5	$ \begin{array}{r} 0, 697, 530 \\ 12, 394, 942 \\ 1, 261, 212 \end{array} $	75.7 96.3 89.8
Foundation Central station, light and	355, 492 82, 035	5,058	.4	1.4	1, 286, 199 938, 718 277, 878				3,042	(*)	(3)	1, 026, 399 938, 719	94.2 99.1
Vehicular subway and tun-	110, 428	2,490	.2	2, 3	2, 704, 000	18.6	Subcontractors Masonry Stonework Marble and tiling Foundation	+26, 551, 515 1, 569, 795 517, 858	183, 472 175, 720 7, 445	4.0	11.2	1, 158, 912	95.8 92.4
Subcontractors	447, 486, 984	846, 985 5, 500 322, 776 155, 024	25.9 .4 24.1	.7 .1 1.6	 ◊ 99, 890, 395 11, 891, 375 ◊ 37, 534, 424 	97.9 99.6 98.0	and the second	1, 093, 559 180, 872	52 255	(³)	(3) . 1	2.677.752	99.2
Heating and piping	13, 508, 951 5, 470, 570	155, 024 93, 700	11. 0 7. 0	1,1	24, 665, 537 10, 005, 220	99. 6 97. 6	Tile (fireproofing) All classes	58, 412, 933	923, 922	100. 0	1.6	177, 251, 758	71.7
Subcontractors Electrical. Heating and plumbing Plumbing and heating combined Automatic sprinkler sys- tems.	. 1, 175, 76/ . 186, 18/	56, 204 17, 758			483 025	95.9	General contractors ² Building Building not specialized ² Commercial building only. Manufecturing building	431, 861, 418 23, 010, 982	313, 590 313, 590 301, 334	33.9	1.4		59.5 51.5 51.8
Masoury Noofing and sheet-metal work Roofing and sheet metal combined Steel erection Stonework Foundation	1, 642, 697	410	(3)	(8) (8)	3, 647, 110 ↓ 9, 654, 355	96.0			289	(3)	.4	239, 606	65.5
Roofing and sheet metal combined	890, 120 6, 498, 100	175 12,679	(8)	⁽³⁾ .2	2 307 835	1	only Residential building only. Subcontractors	2, 086, 173	11, 751	1.3	.6		
Stonework Foundation	632, 23 180, 872	16 5,429	(8)	1.169	1, 394, 285 774, 312	93. 6 81, 9	Heating and plumbing Heating and plumbing Masonry Plastering and lathing	4 7, 271, 493 3, 108, 397 1, 569, 795	1, 307		(3) (3) 38.6	 ⁵ 58, 970, 758 ⁵ 12, 839, 306 4, 978, 064 3, 505, 610 1, 306, 132 1, 158, 912 2, 677, 752 	96. 3 98. 9 95. 8
DETROIT							Plastering and lathing Stone work Marble and tiling	293, 091 517, 858 1, 093, 559	3, 560 98 25	(3) 4	1.2 (3) (3)	1, 306, 132 1, 158, 912 2, 677, 752	90, 1 92, 4 99, 2
Sand, gravel, stone, slag, cinders, etc.*						-	Tile, facing, terra cotta, floor, and wall						
All classes		5, 724, 387	· · · · · · · · · · · · · · · · · · ·		177, 251, 758 118, 281, 000		All classes	58, 412, 933	741, 315			177, 251, 758	
General contractors ² Building Building not specialized ² Commercial building only.	31, 861, 418 23, 010, 982 20, 826, 508 08, 950	2, 190, 896 2, 069, 208 6, 961	38.3 36.1	9.5 9.9 10.1		51, 5 51, 8	General contractors ² Building not specialized ² . Commercial building only. Manufacturing building	*31, 861, 418 23, 010, 982 20, 826, 505	258, 568 258, 490 214, 574 775	34.9 34.9 28.9	.8 1,1 1,0	⁵ 118, 281, 000 87, 990, 924 80, 206, 345 239, 606	59.5 51.5 51.8 65.5
Manufacturing building only Residential building only Histoway	29, 354	0, 482	.1	22, 1 5, 2	1 354 698	47.6	Manufacturing building only	29, 354 2, 086, 173		.2		78, 277	93.6
Highway Bridge and culvert Street paving Sewer, gas, water, conduit	20, 653 3, 080, 624 4, 206, 158	4, 010 1, 384, 690 1, 485, 748	$ \begin{array}{c} 1 \\ 24.2 \\ 26.0 \\ \end{array} $	19.4 44.9 35.3	78,000 9,697,539	100. 0 75. 7 96. 3	Railroad	148,570				\$ 58 970 758	07 1
Waterworks Dredging, river, harbor, etc. Railroad	500, 799 21, 000 148, 570	$\begin{array}{cccccccccccccccccccccccccccccccccccc$.9	10.0 28.6	1, 026, 399	94.2	Subcontractors Masonry Stonework Marble and tiling	1, 569, 795 517, 858 1, 093, 559	482, 747 52, 065 103 430, 579	(³) 58, 1	0. 3 (1) 39. 4	3, 505, 610 1, 158, 912 2, 677, 752	95.8 92.4 99.2
Foundation Vehicular subway and tun- nel	000,404	11,001	''		938, 713 2, 704, 000	99, 1	Cut stone, granite, and marble						
Subcontractors	126, 551, 514	276, 867	4.8	1.0 26.5	568,832	100.0	All classes General contractors ²					\$ 118, 281, 000	·]
Concreting Heating and plumbing Plumbing Masonry		N 500	(8) (3) 2.6	(3) (3) 9,4	⁵ 12, 839, 308 6, 491, 149 3, 505, 610	96.3	Building Building not specialized ² - Commercial building only.	23, 010, 982 20, 826, 505 68, 950	859, 667 792, 442 761, 870 966	49.3 47.4 .1	8.4 3.7 1.4	87, 990, 924 80, 206, 345 239, 606	51.5
Plastering and lathing Roofing and sheet-metal work	293, 091	854	(š)		1, 306, 132 ⁶ 6, 085, 991 2, 055, 086		Manufacturing building only Besidential building only	29, 354 2, 086, 173	291 29, 315	(3) 1.8	1.0 1.4	78, 277 7, 466, 696	93.6 47.6
Massoury Plastering and lathing Roofing and sheet-metal work. Sheet-metal work. Roofing and sheet metal combined.	692, 628 601, 87	225 629	(3)	.1			Street paving Sewer, gas, water, conduit Waterworks	8, 030, 624 4, 206, 158 500, 799	62, 436	3 9	2.0	9,697,539	75.7 96.3 89.8
Marble and tiling	1, 093, 559	8, 751 41, 105 5, 000	.2	1.7 3.8 87.0	350, 499	92, 4 99, 2 86, 6	Foundation	800,492 498 551 515	748, 654	46 5	2.8	938, 713 \$ 58, 970, 758	99.1 97.1
Excavating Bridge and culvert Foundation Flooring, n. e. s	1 114,990	1,731 18,557	3	1.5 10.3 1.2	125, 139	100.0	l Marhle and filing	1, 509, 795 517, 858 1, 093, 559	53, 217 469, 628 225, 814	29.2 14.0	90. 7 20. 6	1, 158, 912 2, 677, 752	02.4
See footnotes at end		:			ulas da sera 1913 - La sera 1914 - La sera				•				

TABLE 10.—COMPARISON OF COST OF DESIGNATED MATERIALS FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929, WITH COST OF MATERIALS AND VALUE OF CONSTRUCTION BUSINESS— Continued

[Based exclusively upon reports of establishments which gave the distributed cost of materials]

		COST OF D	ESIGN	ATED		H 8			COST OF L				of all own
	Cost of all	MAT		cent	Value of	ent of all e by own		Cost of all		ERIAL Per 0	cent f	Value of	per cent of s done by o
KIND OF MATERIAL AND CLAS- SIFICATION OF ESTABLISH- MENTS	materials distrib- uted by kind	Amount		Cost of all distributed materials	construc-	Indicated per cent of business done by force 1	KIND OF MATERIAL AND CLAS- SIFICATION OF ESTABLISH- MENTS	materials distrib- uted by kind	Amount	Total cost	Cost of all distributed materials	construc- tion busi- ness	Indicated per business don force ¹
DETROIT—Continued					×		DETROIT-Continued						
Cement							Reinforcing steel						
All classes					\$177, 251, 758	71. 7	All classes					\$177, 251, 758	·
General contractors ² Building Building not specialized ² . Commercial building only. Manufacturing building	*31, 861, 418 23, 010, 982 20, 820, 505 68, 950	3, 838, 176 1, 916, 944 1, 868, 055 3, 632	93, 9 46, 9 45, 7 , 1	12.0 8.3 9.0 5.3	³ 118, 281, 000 87, 990, 924 80, 206, 345 239, 606	59. 5 51. 5 51. 8 65. 5	General contractors ² Building Building not specialized ² Commercial building only Manufacturing building	31, 861, 418 23, 010, 982 20, 826, 505 68, 950		68.4 67.9 (³)			51.5 51.8 65.5
Manufacturing building only	$\begin{array}{r} 29,354\\ 2,086,173\\ 406,712\\ 20,653\\ 3,080,624\\ 4,206,158\\ 500,799\end{array}$	38, 659 35, 450 6, 373 972, 023 788, 187	9 9 23.8 19.3	1.9 8.7 30.9 31.6 18.7 13.5	$\begin{array}{r} 7,466,696\\ 1,354,698\\ 78,000\\ 9,697,539\\ 12,394,942\\ 1,261,212 \end{array}$	93.0 100.0 75.7 96.3 89.8	only. Residential building only. Highway. Bridge and culvert. Street paving. Sewer, gas, water, conduit. Waterworks. Reliroad. Foundation. Vehicular subway and tun- nel.	$\begin{array}{r} 29,354\\ 2,086,173\\ 406,712\\ 20,653\\ 3,080,624\\ 4,206,158\\ 500,799\end{array}$	$\begin{array}{r} 685\\ 5,772\\ 61,020\\ 4,274\\ 41,822\\ 148,202\\ 148,202\\ 46,044\\ 584\\ 6,044\\ 584\\ 46,044\\ 584\\ 6,044\\ 584\\ 6,044\\ 584\\ 6,044\\ 584\\ 6,044\\ 584\\ 6,044\\ 584\\ 6,044\\ 584\\ 6,044\\ 584\\ 6,044\\ 584\\ 6,044\\ 584\\ 6,044\\ 584\\ 6,044\\ 584\\ 6,044\\ 584\\ 6,044\\ 584\\ 6,044\\ $.3 3.1 11.0	15.0 20.7 1.4 3.5 9.2	78,000 9,697,539 12,394,942 1,261,212 1,026,309	47.6 93.0 100.0 75.7 96.3 89.8
Railroad Foundation Vehicular subway and tun- nel	148, 570 355, 492 110, 428	28, 829 13, 887 8, 885		19,4 3.9	938, 713	99. 1	Railroad Foundation Vehicular subway and tun- nel	148, 570 355, 492 110, 428		1.4	5, 9 16, 9	938, 713	18,6
Subcontractors Concreting Heating and plumbing Heating and piping Plumbing Plastering and lathing Stonework. Marbie and tiling Bridge and culvert Sound proofing Foundation Flooring, n. e. S	426, 551, 515 120, 424 47, 271, 493 3, 108, 397 3, 558, 260 1, 569, 795 293, 091 517, 858	249, 531 20, 104 950 550 400 138, 174 2, 674 11, 700	(3) (3)	24. 2 (³) (³) (³) 8. 5 . 9 2. 3	5 12,839,306 4,978,064 6,491,149 3,505,610 1,306,132 1,158,912	100. 0 96. 3 98. 9 98. 7 95. 8	Subcontractors Concreting Masonry Steel erection Stonework. Marble and tiling Excevating. Foundation Flooring, n. e. S		78,9744,53441,3543,10913001,3731,00026,552862	3.1 3.1 (³) 1 2.0	3.8 2.6 .1 (⁸) .1 7.4 14.7	508, 832 3, 505, 610 5, 910, 847 1, 158, 912 2, 677, 752 350, 499 774, 312	100.0 95.8 92.4 99.2 86.6 81.9
Marble and tiling Bridgo and culvert Soundproofing Foundation Flooring, n. e. s	1, 093, 559 114, 990 139, 361 180, 872 42, 208	30, 798 3, 727 3, 281 24, 089 1, 025		3.2	477,062 353,476 774,312	99.8	Lumber, rough and finished				- 12 - 12 - 12	177, 251, 758	
Plaster, etc.			•				All classes					\$118 281 000	50.5
All classes			81.4	2.3	177, 251, 758 118, 281, 000 87, 990, 924	59.5	General contractors ¹ Building Building not specialized ¹ Commercial building only. Manufacturing building	23, 010, 082 20, 826, 505 68, 950	4, 404, 718 4, 228, 583 3, 373, 750 27, 696	85.5 68.2	18.4 16.2	87, 990, 924 80, 206, 345	51.5 51.8 65.5
General contractors ³ Building Building not specialized ² Residential building only Waterworks Foundation	20, 826, 505 2, 086, 173 500, 799 355, 492	717, 550 3 24, 382 2 178	78.7 2.7 (³)	(³ , 4 1, 2 (³) . 1	80, 206, 345 7, 466, 696 1, 261, 212 938, 713	51.8 47.6 89.8 99.1		0 000 179	822, 717 4, 648 1, 857 30, 859	16.0 .1 (³)	. 1, 1 9.'0	7,466,090 1,354,698 78,000 9,697,539	3 47.6 93.0 100.0 75.7
Subcontractors Masonry Plastering and lathing Marble and tiling	⁴ 26, 551, 516 1, 569, 795 293, 091 1, 093, 559	5 169,070 5 9,000 1 158,575 6 1,490) 1. (17. 4	1 54.1		1 80.1	Residential outleng only Highway. Bridge and culvert. Street paving. Sewer, gas, wator, conduit Waterworks. Railroad. Foundation. Vehicular subway and tun- nel	4, 206, 158 500, 799 148, 570 355, 492	99,696	2.0 (³)	5 16.1 15.0	1, 261, 212 1, 026, 399 938, 713	9 94.2 3 99.1
Structural steel					100 001 000	71 7					,		
All classes					177, 251, 758 118, 281, 000		Subcontractors Carpentering and woodfloor-	26, 551, 510		1.1		58, 970, 758 2, 460, 687	1
Géneral contractors ¹ Building not specialized ¹ Commercial building only. Manufacturing building only Residential building only.	20, 826, 501	$ \begin{array}{c} 1,430,023\\ 5,1,402,260\\ 6,470\\ 1,000 \end{array} $) 37. 9) 37. 9) . 5	0 0.7 0 0.7 2 9.4 8.4	2 87, 990, 924 80, 206, 345 239, 600 78, 277	51. 5 51. 8 65. 5 93. 6	Concreting Electrical	1, 407, 524 120, 424 3, 483, 508	2, 380 170 6, 750 4, 750) (3) 5 (3)	(³)	568, 832 8, 660, 337 12, 839, 306 4, 978, 964	2 100.0 7 99.5 6 96.3
Lighway Street paving Sewer, gas, water, conduit	406, 71 3, 080, 62 4, 206, 158 500, 79	2 650 4 7, 145 3 865 9 28, 714 9, 600	(3) 5 (8) 6 (8)	$ \begin{bmatrix} 1 \\ 2 \end{bmatrix} $ $ \begin{bmatrix} 3 \end{bmatrix} $ $ \begin{bmatrix} \end{bmatrix} $ $ \begin{bmatrix} 3 \end{bmatrix} $ $ \begin{bmatrix} \end{bmatrix} $ $ \begin{bmatrix} 3 \end{bmatrix} $ $ \begin{bmatrix} \end{bmatrix} $ $ \end{bmatrix} $ $ \begin{bmatrix} \end{bmatrix} $ $ \begin{bmatrix} \end{bmatrix} $ $ \begin{bmatrix} \end{bmatrix} $ $ \end{bmatrix} $ $ \begin{bmatrix} \end{bmatrix} $ $ \begin{bmatrix} \end{bmatrix} $ $ \end{bmatrix} $ $ \end{bmatrix} $ $ \begin{bmatrix} \end{bmatrix} $ $ \end{bmatrix} $ $ \end{bmatrix} $ $ \end{bmatrix} $ $ \begin{bmatrix} \end{bmatrix} $ $ \end{bmatrix} $ $ \end{bmatrix} $ $ \begin{bmatrix} \end{bmatrix} $ $ \end{bmatrix} $	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	02 0	Heating and piping Heating and piping Masonry	1, 560, 798 517, 858 1, 093, 559 180, 875 42, 208	140 130 37,553		$ \begin{array}{cccc} 3 & 1.7 \\ (3) \\ (8) \\ 3 & 20.8 \\ 1.7 \\ \end{array} $	1, 158, 912 2, 677, 753 774, 312	0 95.8 2 92.4 2 99.2 2 81.9 9 100.0
Railroad Foundation Vehicular subway and tun- nel	355, 499 110, 428					÷ .	Millwork					177 051 75	8 71.7
Subcontractors Carnentering and woodfloor-	26, 551, 515	5 2, 205, 413	59. 1	5 8.8	\$ 58, 970, 758	97.1	All classes General contractors ²	431, 861, 418	2, 002, 29 3 1, 206, 55 1, 206, 30	5 60.1	3 3.8	4 177, 251, 754 8 \$ 118, 281, 00 2 87, 990, 92	0 59.5
Electrical Heating and plumbing Heating and plumbing	3, 483, 508 4 7, 271, 493 3, 108, 397	7 -26,163	(°) 8	(³) 7 5 1.5	2, 460, 687 8, 660, 337 5 12, 839, 306 4, 978, 064 3 3, 505, 610	91. 1 99. 5 96. 3 98. 9 95. 8	Building not specialized ² Commercial building only Manufacturing building only Residential building only.		5 1,050,44) 20 4 73	9 (9)		3 239,60 5 78,27	
Masonry Roofing and sheet-metal work Roofing and sheet metal	4 2, 461, 088	30, 374		3 1.5		1	Sewer, gas, water, conduit	4, 206, 15	1.1	1 (3)	(3)		
Roofing and sheet metal combined Steel erection Stonework Ornamental iron Bridge and culvert Foundation	2.831.27	1,958,558 10,741 46,844 109,220	52. 1 1. 1.	0 69.2 3 2 1 3 8.1 9 95.0	2 5, 910, 847 1, 158, 912 7 1, 005, 115 477, 062	98.7 92.4 100.0 87.0	Pluinoing	1,407,52 47,271,49 3,558,26	9 795,56 8 15 0 15	7 39. 0 (³)		0 5 58, 970, 75 5 2, 460, 68 5 12, 839, 80 6, 491, 14 1, 806, 13	

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See footnotes at end of table.

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TABLE 10.—COMPARISON OF COST OF DESIGNATED MATERIALS FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929, WITH COST OF MATERIALS AND VALUE OF CONSTRUCTION BUSINESS— Continued

[Based exclusively upon reports of establishments which gave the distributed cost of materials]

		COST OF D				of all own			COST OF D	ESIGN			of all own
	0	MATI	Per	cent		by o		Cost of all		Per	cent	Walus	by c
KIND OF MATERIAL AND CLAS- SIFICATION OF ESTABLISH-	Cost of all materials distrib-		of		Value of construc- tion busi-	done	KIND OF MATERIAL AND CLAS- SIFICATION OF ESTABLISH-	materials distrib-	-			Value of construc- tion busi-	per cent o s done by
MENTS	uted by kind	Amount	cost	of all outed rials	ness	ted I	MENTS	uted by kind	Amount	cost	of all buted	ness	ated iness e ¹
			Total	Cost of all distributed materials		Indicated per cent of business done by o force ¹				Total	Cost of all distributed materials		Indicated p business o force ¹
DETROIT-Continued							DETROIT—Continued						
Paints, varnishes, glass							Plumbing and gas-fitting equipment						
All classes	\$58, 412, 933	\$1, 406, 548	100.0	2.4	\$177, 251, 758		All classes	\$58, 412, 933	\$3,034,488	100. 0	5.2	\$177, 251, 758	71.7
General contractors ² Building	431, 861, 418 23, 010, 982		25.8	1.6	4118, 281, 000 87, 990, 924	51.5	General contractors ²	131, 861, 418	274, 206	9.0	. 9	\$118, 281, 000 \$ 87, 990, 924	59.5
Building not specialized ³ Commercial building only. Manufacturing building	20, 826, 505 68, 950	327, 991 690	23.3 (⁸)	1.6 1.0	80, 206, 345 239, 606	65.5	General contractors ? Building not specialized ? Residential building only Sewer, gas, water, conduit Waterworks Foundation	23, 010, 982	243, 915 125, 554 118, 301	4.1	.6	80.206.345	0 51.8
Peridential building only.	2, 086, 173	· 33.497	(⁸) 2.4	.7 1.6	78, 277 7, 466, 696	47.6	Sewer, gas, water, conduit	4, 206, 158	118, 361 17, 369 5, 800	.6 .2 .2	.4 1.2 2.0	7, 466, 696 12, 394, 942 1, 261, 212 938, 713	2 96.3 89.8
Sewer, gas, water, conduit Waterworks	4, 206, 158 500, 799	88 200	(3)	(8) (3)	12, 394, 942 1, 261, 212 1, 026, 399	96.3 89.8	Foundation	355, 492	5, 800 7, 122			938, 713	99.1
Sower, gas, water, conduit Waterworks Railroad Foundation	148, 570 355, 492	2, 500 343	(³⁾ (³⁾	1.7	938, 713	94, 2 99, 1	Subcontractors	4 7, 271, 49	$\begin{bmatrix} 2,760,282\\ 2,760,282 \end{bmatrix}$	2 91.0 2 91.0	10.4 38.0	4 58, 970, 758 4 12, 839, 300	06.3
		1, 041, 039		3. 9	s 58, 970, 758		Subcontractors Heating and plumbing Plumbing Plumbing and heating combined Automatic sprinkler sys- tems	3, 108, 39 3, 558, 26	7 363, 178 0 2, 090, 701	3 12.0 1 68.9	11.7 58.8		4 98.9
Subcontractors Carpentering and wood flooring Electrical. Heating and plumbing Plumbing Mascury Painting and decorating Class and glaging	1, 407, 529 3, 483, 508	8, 020 61	(3)	(³)	2, 460, 687 8, 660, 337 \$ 12, 839, 306	91. 1 99. 5	Plumbing and heating combined	368, 62	178, 007	7 5.8	48.3	668, 855	2 91.6
Heating and plumbing	47, 271, 493 3, 558, 260	3,000 3,000	(3)	1 1	6 491 149	96.3	Automatic sprinkler sys- tems	128, 33	128, 33€	3 4.2	2 100. 0	357, 39	5 95.0
Masonry Painting and decorating	1, 569, 795	3,000 100 487,728 527,131	(*) 34.7	(*) 100, 0 100, 0	3, 505, 610 2, 266, 615 1, 019, 868	95.8 99.0 93.4	Electrical appliances			1	1		
Painting and decorating Glass and glazing Roofing and sheet-metal work. Sheet-metal work Marble and tiling. Soundproofing Flooring, n. e. s.	1 2 461 089	1, 342	1		♦ 6, 085, 991	100.0	All classes	58, 412, 933	3, 950, 025	5 100. 0	6.8	177, 251, 75	8 71.7
Roofing Sheet-metal work	1, 166, 578	1, 250 92	(3)	(3)	2,432,104	100.0	General contractors ²			6.0	.7	^{\$118, 281, 000} ^{\$87, 990, 924}	-
Marble and tiling	1,093,559 139,361	321 9,763 3,573	(³) .7	(³) (8) 7.0	2, 677, 752 353, 470	99.8	Building Building not specialized 2	20, 826, 50	2 233, 611 5 183, 233	3 4.6	i .9	⁵ 87, 990, 92 80, 206, 34	4 51.5 5 51.8
	42, 208	3 3, 573		8.5	125, 139	100.0	Commercial building only Residential build only	2,080,17	1,000 49,378	3 1.3	1.5 2.4	239, 000 7, 466, 690 12, 304, 949	6 65.5 6 47.6 2 96.3
Roofing and sheet metal All classes	58, 412, 93	3 2, 598, 148	100. 0		177, 251, 758		General contractors ² Building Building not specialized ² Commercial building only Residential build only Sewer, ges, water, c Lit Waterworks Foundation	- 4, 200, 100 500, 791 355, 493	3, 762 250 2 501	$ \begin{bmatrix} 1 & (3) \\ 1 & (3) \end{bmatrix} $	(8)	80, 206, 344 239, 600 7, 466, 690 12, 394, 945 1, 261, 215 938, 715	2 89.8 3 99.1
General contractors 2	⁴ 31, 801, 418 23, 010, 985	21 81.420) 3.1	4	\$118, 281, 000 87, 990, 924	51.5	Foundation	406 551 51		1		1 58 970 75	8 07 1
Building Building not specialized ² Commercial building only Manufacturing building	20, 826, 50	5 51,855	5 2. () . J	2.9	80, 206, 345 239, 600	5 51.8 65.5	Electrical	3,483,501	$5 \\ 8,711,901 \\ 8 \\ 3,460,791 \\ 27,168 \\ 27,16$	1 87.6	99.3	8, 660, 33 \$12, 839, 30	7 99.5 6 96.3
Manufacturing building only	29, 85	1 122 3 27, 448		1.9	78, 277 7, 466, 690	93.6	Subcontractors Electrical Heating and plumbing Heating and piping Marble and tiling Foundation	3, 108, 39	222.410	5.6	20.0	4,078,06	4 98.9 2 99.2
Highway Waterworks	2, 086, 17 406, 71 500, 79	2 500		.1	1,354,698 1,261,212	8 93.0 8 89.8		180, 87	2 1, 529	9 (⁸)	.8	774, 81	2 81.9
Manuacturing building nly	355, 49	2 40	3 (*)	(3)	038, 713	3 99.1	and equipment						
AV1.11111111111111111111111111111111111			1		2, 704, 000 \$ 58, 970, 758				3 2, 149, 520	0 100. 0	8.7	7177, 251, 75	8 71.7
Subcontractors Carpentering and wood	1 407 52	5 2, 506, 680 9 290		(1)	0 400 000	01 1	General contractors Building Building not specialized	⁴ 29, 463, 72 ⁴ 20, 613, 28	5 8, 410 9 8, 410 2 8, 410	0 .4 0 .4		5109, 389, 42 579, 099, 35 71, 314, 77	9 61.5 3 53.2
Heating and plumbing	1,407,52 7,271,49 3,108,39	20, 700 7 10, 700	3. (C		² , 400, 08 ⁴ 12, 839, 300 4, 978, 064 6, 491, 149	96. 3 98. 9	11	18, 428, 81	8, 410	5 .4	(3)	71, 314, 77	4 53.8
Carpentering and wood flooring Heating and plumbing Plumbing Roofing and sheet-metal	3, 108, 39 3, 558, 26	10,000	۰. I		1.		Subcontractors Carpontering and wood-	426, 551, 51	5 2, 141, 110			\$ 58, 970, 75	
Boofing	2, 461, 08 1, 166, 57 692, 62	8 2, 169, 468 8 1, 097, 132 8 660, 811	2 42. 3	2 94.0	2, 432, 10	£ 100.0	Elevator construction	2, 121, 03	3 2.121.03	7 (3) 3 98. j	(¹) 100. 0	2, 460, 68 2, 986, 66 • 12, 839, 30	7 91.1 4 95.8
Sheet-metal work Roofing and sheet metal combined	601, 87		1	68.4	1, 598, 80		Heating and plumping	3, 558, 26	3 19,75 0 19,75	0.0		6, 491, 14	6 96.3 9 96.7
Steel erection	2, 831, 27 139, 30	1 280,000	0 10.8 2 1.4	9.9	5, 910, 84 353, 47	7 98.7 3 99.8	Pipe: Drain tile, vitrified,						
Heating and ventilating	1						concrete, segment tile, corrugated					1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
equipment	58, 412, 93			7.6	177, 251, 75	3 71,7	All classes		3 1, 186, 44			177, 251, 75	- I
General contractors ² Building Building not specialized ² .	431, 861, 41 423, 010, 98	8 177, 500 2 175, 460	6i 4 I). (3. (³ 118, 281, 000 ⁴ 87, 990, 924 80, 206, 344 239, 600 7, 466, 690 1, 261, 212	59.5 1 51.5	Building	131, 861, 41 123, 010, 98	8 1, 147, 93 2 110, 52 5 102, 609	3 96.8 9 9.3	3 3. 0	⁴ 118, 281, 00 ⁵ 87, 990, 92 80, 206, 34	0 59.5 4 51.5
Commercial building only.	. 68,95	5 101, 39	1 2.3	3 . l 1. l 7 . 3. l	80, 206, 34 239, 60	5 51.8 5 65.5 0 47.6	Building not specialized ² Manufacturing building				3 .6		
Residential building only. Waterworks	2, 086, 17 500, 79	3 73,07 9 2,04	0 (3)				Residential building only	29, 35 2, 086, 17 406, 71	91 7 746	0 ľ		7,466,69	6 47.6 98 93.0
Subcontractors Heating and plumbing	426, 551, 51 7, 271, 49	5 4, 242, 54 3 3, 955, 59 7 2, 345, 51	1 96. 4 89.	0 16.0 5 54.4	58, 970, 75 12, 839, 30 4, 978, 06	8 97.1 8 96.3	Street paving Sewer, gas, water, conduit	3,080,62 4,206,15	4 22,76 8 935,70	3 1. 9 78.		78, 27 7, 406, 69 1, 354, 69 9, 697, 53 2 12, 394, 94 3 1, 261, 21 3 1, 026, 39 2 938, 71	98 93,0 39 75.7 12 96.3
Heating and mining	3, 108, 39 3, 558, 26	7 2, 345, 51 0 1, 325, 03	2 53. 9 30.	1 75.4 0 37.5	4, 978, 06 2 6, 491, 14	4 98.9 9 96.7	Waterworks Railroad	500, 79	0[2,09	a .	$ \begin{array}{c} 0 & 11, 8 \\ 2 & 1, 8 \\ \end{array} $	1, 261, 21 1, 026, 39	12 89.8 99 94.2 13 99.1
Plumbing and heating combined	368, 62	2 177, 16	5 4.	0 48. 3	668, 85	2 91.6	1					1 10 070 71	07 1
Automatic temperature control Roofing and sheet-metal work	1	8 107, 87	8 2.	4 100.		6 100.0	Concreting	120, 42	4 10.50	0 .	41 9	000,00	58 97.1 32 100.0 56 96.3
workSheet-metal work	4 2, 461, 08	3 111,76 8 30,00	42.		5 * 6, 085, 99 2, 055, 08	1 100.0 6 100.0	Heating and plumbing Heating and piping	3, 108, 39	7 51	2 (8)	4 (3)	7 568, 83 568, 83 2 5 12, 839, 30 4, 978, 00 5 6, 491, 14 2 3, 505, 61	10 90. a 14 98. 9 19 96. 7
Roofing and sheet-metal combined	601.87	7 81.78	4 1.	8 13.	1, 598, 80	1	1 FIUID UDKeessessessessesses	1, 569, 79	5 3,19 8 42	16 22 (3)		TI 1'100'A1	IZ 92.4
Steel erection Stonework	2,831,27	1 175,00 S 18	0 4. 3 (³)	0 6. (⁸)	1, 158, 91	2 92.4	Excavating		8 7,50	8	6 55.	31 350, 49	99] 86.0

TABLE 10.—COMPARISON OF COST OF DESIGNATED MATERIALS FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929, WITH COST OF MATERIALS AND VALUE OF CONSTRUCTION BUSINESS— Continued

[Based exclusively upon reports of establishments which gave the distributed cost of materials]

		COST OF D MAT	ESIGN		<u></u> 2	of all own			COST OF D MAT	ESIGN			of all own
	Cost of all		Per	cont	Value of	per cent ol s done by c		Cost of all materials			cent	Value of	indicated per cent of business done by force
KIND OF MATERIAL AND CLAS- SIFICATION OF ESTABLISH- MENTS	materials distrib- uted by	Amount			construc-	l per ss don	KIND OF MATERIAL AND CLAS- SIFICATION OF ESTABLISH- MENTS	distrib- uted by	Amount	st	all	construc- tion busi- ness	d per iss do
	kind	Amount	tal cost	Cost of all distributed materials	1000	Indicated p business (force ¹		kind	111101110	Total cost	Cost of all distributed materials		dicate busine force
			Total	99 e 		E C C				T TC	39 F		E
DETROIT—Continued <i>Pipe: Cast-iron, sheet and</i>							FLINT—Continued Tile, facing, terra cotta,						
tube steel, etc.	\$58 412 933	\$807, 818	100.0	1.4	\$177, 251, 758	71.7	foor and wall All classes	¢ \$2. 646. 353	\$57,800	100.0	2, 2	7 \$6, 070, 915	82. 2
General contractors i	131, 861, 418	567 877	70.8						15, 800 15, 800 11, 000	27.3 27.3	1.3 1.4	4 3, 170, 693 5 3, 002, 393 1, 560, 264	60.9 69.3
Building not specialized ² Residential building only	20, 826, 505	51, 864 47, 348 4, 516 16, 161 19	5.9 .6 2.0	2	⁵ 118, 281, 000 6 87, 990, 924 80, 200, 345 7, 406, 696 1, 354, 696 78, 000 9, 697, 539 12, 304, 942 1, 261, 212 1, 026, 399	51.8 47.6 93.0	General contractors. Building Building not specialized Residential building only.			8,3	2.3 .7	1, 560, 264 1, 374, 493	66. 9 71, 5
Highway Bridge and culvert Street paving	406, 712 20, 653 3, 080, 624	2.052	.3	4.0 .1	1, 554, 008 78, 000 9, 697, 539	100.0 75.7 96.3	Subcontractors Marble and tiling	4 1, 398, 333 49, 520	42,000 42,000	72.7 72.7	3, 0 84, 8	^{\$} 2, 835, 222 137, 000	98.9 99.3
Sewer, gas, water, conduit Waterworks Railroad	4, 206, 158 500, 799 148, 570	82, 803 132	10.3 (³)				Cement All classes	0 646 959	65, 788	100.0	2.5	6, 070, 915	82.1
Foundation Vehicular subway and tun- nel	355, 492 110, 428			1.4 2.3	938, 713 2, 704, 000	99. 1 18. 6						⁶ 3, 235, 693 3, 067, 393 1, 625, 204	
Subcontractors	426, 551, 515 3, 483, 508	239, 941 2, 000 219, 817	29.7	- a	⁵ 58, 970, 758 8, 660, 337 ⁵ 12, 839, 306	97. 1 99. 5	General contractors ² Building Building not specialized ³ . Commercial building only. Residential building only. Source gas water conduit	514, 591 31, 506	37,898 1,960	57.6	7.4	67,638	88.5
Electrical Heating and plumbing Heating and plumbing Plumbing.	3, 483, 508 7, 271, 493 3, 108, 397 3, 558, 200	219, 817 141, 277 65, 150	27.2 17.5 8.1	8.0 4.5 1.8	4,978,064	96. 3 98. 9 96. 7	bower, gas, water, containt		1, 110	2.2	3.6	1, 374, 493 88, 300	
Plumbing and heating combined	368, 622	13, 390	1.7	3 . 6	668, 852 5, 910, 847	91. 6 98. 7	Subcontractors Plastering and lathing Marble and tiling	4 1, 398, 333 43, 572 49, 520	5, 267 607 2, 260	.9 3,4	4, 6	⁶ 2, 835, 222 110, 273 137, 000	99, 3
Foundation	1 011,000	16 5,429	(8)	(3)	1, 158, 912 774, 312	02.4 81.9	Excavating Plaster, etc.	8, 129	2, 400	3.0	29.7	110, 339	100.0
Machinery All classes			100.0		7 177, 251, 758		All classes		50, 995		1.9	6, 070, 915	
General contractors Building Building not specialized	¹ 20, 463, 725 ¹ 20, 613, 289 18, 428, 812	549, 672 549, 672 549, 672	76, 8 76, 8 76, 8	1.9 2.7 3.0	^{\$} 109, 389, 429 ^{\$} 79, 099, 353 71, 314, 774	61.5 53.2 53.8	General contractors ² Building Building not specialized ²	1, 191, 085 514, 591	21, 126 21, 120 7, 695	41.4	1.5	³ 3, 235, 693 3, 067, 393 1, 625, 264	71.8
	1	166.000	23.2	1	^{\$} 58, 970, 758 ^{\$} 12, 839, 300 4, 978, 064		Commercial building only_ Residential building only_	31, 500 644, 988	13, 011	25.5		67, 636 1, 374, 493	1.1
Heating and piping Metal products, n. e. s. (including metal furni-	3, 108, 397	166,000	23.2	5.3	4, 978, 064	98.9	Plastering and lathing	4 1, 398, 333 43, 572	29, 869 29, 869	58.6 58.6	2.1 68. fi	⁸ 2, 835, 222 110, 273	98.9 88.2
(Including metal furni- ture) All classes	58, 412, 933	1, 074, 750	100.0	1.8	177, 251, 758	71.7	Structural steel † All classes	⁶ 2, 646, 353	343, 687	100. 0	13. 0	7 6, 070, 915	82.1
			14.1		\$118, 281, 000 \$87, 990, 924	59.5 51.5	General contractors Building	1 1 160 145	10, 087 10, 087 7, 383	2. 9 2. 9			69.9 69.3
Building not specialized 2 Residential building only Waterworks	20, 826, 505 2, 086, 173 500, 799	409 1,008 28,729	(3)		\$118, 281, 000 \$87, 990, 924 80, 206, 345 7, 466, 696 1, 261, 212	51, 8 47, 6 89, 8	Building not specialized Commercial building only Residential building only	1, 160, 145 483, 651 31, 500 644, 988	1,004	I D	1, 5 5, 1 , 2	1, 560, 264 67, 686 1, 374, 493	j 98.5
General contractors ² Building Building not specialized ² Residential building only. Waterworks Railroad Foundation	148, 570 355, 492	1,008 23,729 24,283 101,612	2.3 9.5	16.3 28.6	1,040,000	94. 2 99. 1	Subcontractors Steel erection	4 1, 398, 333	333, 600 333, 600	97.1		^{\$} 2, 835, 222 452, 074	98.9 100.0
Subcontractors Carpentering and wood					⁶ 58, 970, 758 2, 460, 687	97. 1 91. 1	Lumber, rough and finished				18 	х.	
flooring Marble and tiling Foundation Metal work, n. e. s	1, 093, 559 180, 872 1, 335, 974	5, 355 35, 086	.5 3.3	.5 19,4	2,677,752	99.2 81,9 100.0	All classes	í				\$ 6, 070, 915	. <u> </u>
FLINT	1,000,011			00.1	1, 201, 002		General contractors ² Building Building not specialized ²	1, 191, 080	544, 252 136, 202	99, 6 24, 9	45.7 26.5 35.2	3, 235, 693 3, 067, 393 1, 625, 264 67, 636	72.2 71.8 71.4
Sand, gravel, stone, slag, cinders, etc.	0 040 929	79.409	100.0	07		82, 1	Building Building not specialized 4. Commercial building only. Residential building only. Sewer, gas, water, conduit	31, 506 644, 988 36, 930	1 396,961	12,1	61. 5	1, 374, 493	5 (1,0
Alt classes General contractors * Building	2, 646, 353 1, 248, 020 1, 191, 085	72,498 63,969 41,369	88, 2	2.7 5.1 3.5	3 235 693	72.2	Millwork All classes		59, 978	100.0	2.3	₽ 6, 070, 915	5 82, 1
Building Building not specialized ² . Commercial building only Residential building only.	$\begin{array}{c} 1, 248, 020\\ 1, 191, 085\\ 514, 591\\ 31, 506\\ 644, 988\\ \end{array}$	28, 019 2, 482 10, 868	38.6 3.4 15.0	5.4 7.9 1.7	1, 625, 264 67, 636	71.4 98.5 71.5	General contractors 2		59,978	·			
Highway Sewer, gas, water, conduit	20,000	63, 969 41, 369 28, 019 2, 482 10, 868 20, 000 2, 600	27. 6 3. 6	100.0	88, 300	100.0	Building Building not specialized ² . Commercial building only	514, 591	52,760	88.0	10.3	1, 625, 264	1 71.4 98.5
Subcontractors Plastering and lathing	+ 1, 398, 333 43, 572 8, 129	8, 529 3, 000	11.8	6.9		98.9 88.2 100.0	Residential building only. Paints, varnishes, glass	644, 988	υ, υθί	10.0	0.	1, 374, 493	3 71.5
Excluding Brick (face, common, fire, paving, etc.)		0,029		00.0	110,000		All classes	2, 646, 353	- 				<u> </u>
All classes	\$ 2, 646, 353	68 07E	100 0	5:5	1 3 235 693	72.2	General contractors ² Building Building not specialized ² .	1, 248, 020 1, 191, 084 514, 59	25, 496 25, 496 16, 459	33.4 33.4 21.t	2.0 2.1 3.2	3,067,393 1,625,264	3 72.2 3 71.8 4 71.4
General contractors ² Building Building not specialized ² Commercial building only.	1, 191, 085 514, 591 31, 506	68,076 57,115	98.7 82.8 2.9	5.7 11.1 6.4	3,067,393 1,625,264		I Germanoial building on n	. 81, 500 . 644, 98	8 8, 571	11.	1.5 1,8	1, 5/4, 490	0 11.0
Residential building only Sewer, gas, water, conduit	36, 935	8, 943 900	13, 0 1, 3	1.4 2.4	1, 374, 493 88, 300	71.5 100.0	Subcontractors Painting and decorating	1, 398, 33 50, 80	50, 800 50, 800	0 66.0 0 66.0	3.6 100.0	\$ 2, 835, 22 104, 22	2 98.9 2 100.0

TABLE 10.—COMPARISON OF COST OF DESIGNATED MATERIALS FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929, WITH COST OF MATERIALS AND VALUE OF CONSTRUCTION BUSINESS— Continued

[Based exclusively upon reports of establishments which gave the distributed cost of materials]

		COST OF D MATI	ESIGN			of all own			COST OF D MAT	ESIGN			of all own
	Cost of all materials		Per	cent	Value of	per cent done by	KIND OF MATERIAL AND CLAS-	Cost of all materials	a an tao an Aistria		cent	Value of	Indicated per cent of business done by orce ¹
KIND OF MATERIAL AND CLAS- SIFICATION OF ESTABLISH- MENTS	distrib- uted by kind		·····		construc- tion busi- ness	per s don	SIFICATION OF ESTABLISH MENTS	distrib- uted by	Amount	ŝt	ls de ll	construc- tion busi- ness	i per
		Amount	al cost	Cost of all distributed materials	1699	Indicated F business of force ¹		kind	mount	al cost	Cost of all distributed materials		icated usine urce 1
			Total	Cosi distr ma		Indi bu for				Total	B dig		par o
FLINT-Continued							GRAND RAPIDS-Continued					witi î î	egi et
Roofing and sheet metal							Brick (face, common, fire, paving, etc.)			×.		an an a' a' a' An an an	
All classes	\$2, 646, 353				\$8,070,915		All classes			100.0	4.2	\$11, 519, 047	82, 3
General contractors ² Building Building not specialized ² Commercial building only. Residential building only.		23,441 6,724	19.1	$ \begin{array}{c} 1,9 \\ 2.0 \\ 1.3 \\ 3.9 \\ 2.4 \\ \end{array} $	⁴ 3, 235, 693 3, 067, 303 1, 625, 264 67, 630 1, 374, 493	71.4 98.5	General contractors ² Building Building not specialized ² Residential building only Street paving Sewer, gas, water, conduit		107, 107 164, 061 152, 882 11, 179	90.8	10.1 11.3	³ 7, 636, 399 5, 089, 365 4, 362, 993 726, 372	$\begin{array}{c} 65.4\\ 65.6\\ 64.1 \end{array}$
	4 1, 398, 333			1 1			Street paving Sewer, gas, water, conduit	351, 220 262, 244	2, 103 943	1.2	.6	868, 630 517, 865	89.4 100.0
Subcontractors Roofing and sheet-metal work Roofing Sheet-metal work	178, 221	169, 993	87 0	05.4		9 09.8 99.6 100.0	Subcontractors. Masonry. Marble and tiling	4 1, 830, 565	3 13,635) 13,500) 7.6	28.3	96, 500	99.4 100.0 100.0
Sheet-metal work Roofing and sheet metal combined	32, 075				70, 500	100.0	Tile, facing, terra cotta, Roor, and wall					an a	
Heating and ventilating equipment *							All classes	4, 305, 72	7 89, 118	3 100. (0 2.1	11, 519, 047	82, 3
All classes	2, 646, 353	245, 168	100. 0	9, 3		1	General contractors ² Building	. 1, 616, 993	2 84, 370	il 38.6	6 2.1	5, 089, 360	51 65.4
General contractors ² Building	4 1, 248, 020 1, 191, 080	19.059	7.8	1.6	3,067,393	72.2	Building not specialized ² Residential building only. Highway	1,851,143	3 27, 381	30.1	3 2,6	726, 379	8 65,6 2 64,1 4 98,1
Building not specialized ² Commercial building only Residential building only	31, 506	2,506	1.0	6, 3 2, 3	1, 625, 264 67, 630 1, 374, 492	71.4 98.5 71.5		1					
		226, 104	62, 2	16.2	\$ 2, 835, 222		Subcontractors Masonry Marble and tiling	47,650 69,038	1, 500 5 53, 042	1.1 2 59.8	76,8	96, 500 149, 928	5 100, 0
Subcontractors Heating and plumbing Ueating and piping	1 133, 805	109,297	88.9	36.9 81.7 20,4	219, 380	09.5 98.6 99.4	Cement						
Plumbing and heating combined Roofing and sheet-metal	72, 201	1 i		1			All classes					7 11, 519, 047	
WORK	110,64	8, 228 8, 228	3.4 3.4	4, 6 9, 4		99.8 99.6	General contractors Building Building not specialized	1, 556, 592	2 159, 568 153, 277	45, 1	$\begin{bmatrix} 10, 3 \\ 0 \end{bmatrix} \begin{bmatrix} 10, 3 \\ 11, 9 \end{bmatrix}$	4, 961, 365	66.0 66.4
Roofing Plumbing and gas-fitting equipment *	1.	0,220					Building_ Building not specialized_ Residential building only. Highway_	205, 849 235, 199 351, 220	0, 291 59, 554	1.2	1 25, 3	720, 372	2 64.1 98.1 89.4
All classes		437, 518	100.0	16, 5	6, 070, 918	82.1	Street paving Sewer, gas, water, conduit	262, 244	13,922		5.8		1 .
General contractors ² Building	1 1.191.08	75, 342 75, 342	17.2 17.2	6, 0 6, 3	5 3, 235, 092 3, 007, 393	72, 2 71, 8	Subcontractors. Masonry Plastering and latbing	4 1, 830, 563 47, 650 91, 128) 7,480	2.1	15,7	* 3, 882, 648 96, 500 209, 271	99.4 100.0 96.2
Building not specialized ² Commercial building only Residential building only	514, 591 31, 500 644, 988	3 2, 192	8.3	5 7.1 5 7.0 5.7	3, 230, 092 3, 007, 393 1, 625, 204 67, 630 1, 374, 492	71.4 98.5 71.5	Marble and tiling	69,038	3, 401	1.0		149, 920	100.0
Subcontractors	4 1, 398, 38	362, 171		1.1	\$ 2, 835, 222	1.1.1.1.1	Plaster, etc.	6 4 305 797	60, 905	 100 (14	7 11, 519, 047	82.3
Heating and plumping	133, 803		5.6	18.3	219, 385	j 98.6	General contractors	1 2, 414, 764	13, 921	22 0	0 0		
Plumbing and heating combined	1.1.1		1				Building not specialized	1, 556, 592	12, 457	22. 1 20, 1 2, 4	9 5 1.0	4, 234, 993	5 66.0 3 66.4 2 64.1
Electrical appliances and supplies							Residential building only.						
All classes						-	Masonry Plastering and lathing	47,650 91,128		78.9	2 .3 51.4	5 3, 882, 648 96, 500 209, 271	96.2
General contractors ² Building	1, 248, 020 1, 191, 08 514, 59	5 24,955	14.1	L 2.0 L 2.1	4 3, 235, 698 3, 067, 393 1, 625, 264	72.2 71.8 71.4	Structural steel					ار مراجع می ا	
Building. Building not specialized ² . Commercial building only. Residential building only.	31, 50	2,030	1.	$ \begin{array}{ccc} 1.4 \\ 2 \\ 6.4 \\ 3 \\ 2.4 \end{array} $	8,067,393 1,625,264 67,030 1,374,493	98.5 71.5	All classes		- l				
Subcontractors	11, 398, 33				\$ 2, 835, 222		General contractors ² Building Building not specialized ² . Residential building only.	1, 616, 992	93, 277 93, 277 90, 577 90, 577 2, 700	67.0	5.8	5, 089, 360 4, 362, 998	65.4 65.6
Electrical Heating and plumbing Plumbing	143, 44 591, 04 385, 04	3 151, 444 4 143, 444 7 8, 000 3 8, 000	4.	5 1.4 5 2.1	³ 1, 043, 040 713, 65) 99.5 99.4	Residential building only.	205, 840					
GRAND RAPIDS			1				Subcontractors Masonry Steel erection Marble and tiling	4 1, 830, 563 47, 650 44, 460	45,870 1,400 44,460	32.0	2.9	96, 500 127, 48	100. 0 100. 0
Sand, gravel, stone, slag, cinders, etc. †					1,11	÷.,		69, 038	i 10	(8)	(3)	149, 926	5 100, 0
All classes General contractors							Reinforcing steel All classes	4, 305, 727	81,460	100.0) 1.9	11, 510, 04	82, 3
Building Building not specialized Residential building only.	1, 556, 59 1, 290, 74 265, 84	1 383, 296 2 104, 563 3 100, 976 3 584 9 3, 584 9 126, 000 9 129, 416 4 22, 420	26.	1 6.7 5 7.8	4,961,364	66.0 66.4				Sec. 20. 20. 2	S	a sim maintaine	e 1 *
Residential building only. Highway	265, 84 235, 19 351, 22	3, 584 126, 000	32,	1.3 54.0 36.8	726, 875	2 64.1 98,1 98,4	General contractors ² Building	1, 616, 992 1, 351, 143 265, 849	37,758 600	46.	2.9 3 2.8 7 .2	4, 362, 99	85.6 64.1
Highway Street paving Sewer, gas, water, conduit							Street paving	235, 199 351, 229 262, 244	22.128	3 27.1 20.1	2 0.4 9 4.9 1 1.3	1,044,304	98.1 989.4 100 0
Subcontractors Masonry Plostoring and lathing	4 1, 830, 56 47, 65 91, 12	13, 415 1, 500 10, 890 1, 010	3.4	$\begin{array}{ccc} 1 & .7 \\ 1 & 3.1 \\ 7 & 12.0 \end{array}$	96, 500	8 99.4 0 100.0 1 96.2				b .:		1 .	8 99.4
Masonry Plastering and lathing Marble and tiling	69, 03	1,010	í .	12.0	149, 92	100.0	Subcontractors	47,65	550	oj .:	7 1.2	96, 50	Di 100. 0

TABLE 10.—COMPARISON OF COST OF DESIGNATED MATERIALS FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929, WITH COST OF MATERIALS AND VALUE OF CONSTRUCTION BUSINESS— Continued

[Based exclusively upon reports of establishments which gave the distributed cost of materials]

		COST OF I MAT	ESIGI ERIAI			of all 7 own			COST OF I MAT	DESIG ERIA			of all own
AND OF MATERIAL AND CLAS- SIFICATION OF ESTABLISH-	Cost of all materials distrib-		0		Value of construc-	per cent o done by	KIND OF MATERIAL AND CLAS- SIFICATION OF ESTABLISH-	Cost of all materials distrib-			cent	Value of construc-	per cent done by
MENTS	uted by kind	Amount	Total cost	Cost of all distributed materials	tion busi- ness	Indicated pe business of force ¹	MENTS	uted by kind	Amount	Total cost	Cost of all distributed materials	ness	Indicated p business
GRAND RAPIDS-Continued							GRAND RAPIDS-Continued						
Lumber, rough and finished							Heating and ventilating equipment—Continued						
All classes	\$4, 305, 727	\$552, 519			<u> </u>		Subcontractors.	4\$1, 830, 563	\$655, 720 655, 360	95. 8 95. 8	35.8 66.0	*\$3, 882, 648 * 1, 873, 045	3 09. 5 99.
General contractors ¹ Building. Building not specialized ² . Residential building only Highway.	4 2, 475, 164 1, 616, 992 1, 351, 143 265, 849 235, 199	541, 747 530, 831 394, 860 135, 965 2, 700	96, 1 71, 5 24, 6	32.8 29.2 51.1	5, 089, 365 4, 362, 993	65.4 65.6 64.1	Subcontractors Heating and plumbing Heating and piping Plumbing. Masonry	762, 857 184, 928 47, 650	643, 860 11, 500 360	04.1	84.4 6.2	1, 406, 062 376, 353	2 99. 3 100.
Street paving Sewer, gas, water, conduit	351, 229 262, 244	1,911	.3	.5	868, 630	89, 4 100, 0	Plumbing and gas-fitting equipment †						
Subcontractors Carpentering and wood	4 1, 830, 563	10, 772	1.1				All classes		351, 761 33, 778			7 11, 519, 047 7, 508, 399	
fioring Masonry Marble and tiling <i>Millwork</i>		4,400	. 8	15.6 9.2 .2	96, 500	100.0	General contractors Building Building not specialized Residential building only. Street naving	1, 550, 592 1, 290, 743 265, 849	28, 225 18, 175 10, 050	8.0 5.2 2.9	1.8 1.4 3.8	4, 961, 365 4, 234, 993 726, 372	66. 66. 64.
All classes	4, 305, 727	168, 689	100. 0	3.9	11, 519, 047	82.3	Street paving Sewer, gas, water, conduit		5, 433 120		(3)	517, 865	100.
General contractors ² Building Building not specialized ² Residential building only	4 2, 475, 164 1, 616, 992 1, 351, 143	142, 900 142, 900 102, 930	84. 7 84. 7 61. 0 23. 7	5.8 8.8 7.6 15.0	^b 7, 636, 399 5, 089, 365 4, 362, 993	73.8	Subcontractors Heating and plumbing Plumbing Automatic sprinkler sys- tems	4 1, 830, 563 993, 634 762, 857 184, 928	317, 983 316, 333 110, 898 165, 349	89.0	31.8 14.5	3, 882, 648 1, 873, 045 1, 406, 062 376, 353	99.
Subcontractors Carpentering and wood	4 1, 830, 563	1	1				tems Masonry	45, 849 47, 650	40, 091 1, 650	11.4	87.4 3.5	90, 630 96, 500	100. 100.
flooring	39, 789 47, 650	22, 789 3, 000	13. 5 1. 8			100, 0 100, 0	Electrical appliances and supplies						
Paints, varnishes, glass		. •						A 4 905 707	205 100	100 0	7.6	7 11 510 047	. 00
All classes		89, 581				82.3 74.5	All classes General contractors	1 2, 414, 764	325, 188 24, 072	74	1.0		74.
Building not specialized Residential building only.	1,556,592 1,290,743	2 13, 895 12, 271	10,7	1 1.0	4, 961, 365 4, 234, 993	66.0	General contractors. Building Building not specialized Residential building only. Sewer, gas, water, conduit.	1, 556, 592 1, 290, 743 265, 849 262, 244	23, 774 17, 712 6, 062 298	7.8	1.5 1.4 2.3 .1	4, 961, 365 4, 234, 993 726, 372 517, 865	66. 64.
Subcontractors Masonry Painting and decorating Glass and glazing Marble and tiling	47,650	60 50,673 24,820	56.6 27.7	98.9 100.0	96, 500 230, 668 49, 863	100. 0 100. 0 80. 0	Subcontractors Electrical Heating and plumbing Heating and piping Masonry	4 1:830.563	301, 116 293, 430 7, 396	1 90 2	L 100. 01	576, 073 1, 873, 045	100. 99. 99.
Roofing and sheet metal All classes		180, 866	106.0	4 9	7 11, 519, 047	82.3	Pipe: Drain tile, vitrified,						
General contractors	4 2, 414, 764	13, 466	7.4	. 6	A 7 508 200	74.5	concrete, segment tile, corrugated						
Building Building not specialized Residential building only	1, 556, 592 1, 290, 742 205, 849	11,077	6.1	9	1 9.209.993	66, 0 66, 4 64, 1	All classes	4, 305, 727	247, 458			11, 519, 047	
Sewer, gas, water, conduit	262, 244	17	(3)	(3)	\$ 3, 882, 648	99.4	General contractors ² Building Building not specialized ² Residential building only.	1,616,992	245, 577 5, 040 4, 798	2.0	3	5, 089, 365 4, 362, 993	5 65. 8 65.
Heating and plumbing Plumbing Masonry Roofing and sheet-metal	1 993, 634 184, 928 47, 650	2,000 2,000 1,610	1.1 1,1 .9	.2 1.1 3.4	\$ 1, 873, 045 376, 353 96, 500	99.5 100.0 100.0	Highway Street paving Sewer, gas, water, conduit	205, 849 235, 199 351, 229 262, 244	15,850	6.4 6.5	6.7 4.6	1, 044, 394 868, 630	98, 89,
work Roofing Roofing and sheet metal combined	163, 790 83, 655 80, 135	83, 655	46.3	100.0 100.0 100.0	255, 769	100, 0	Subcontractors Heating and plumbing Plumbing	4 993, 634	1, 879 1, 879 1, 879	1.8	.1 .2 1.0	5 3, 882, 648 5 1, 873, 045 376, 353	99. 99. 99. 100.
Heating and ventilating equipment † All classos	¢ 4, 305, 727	684.198	100.0	15.9	7 11, 519, 047	82, 3	Bituminous paving ma- terials, tar, asphalt, and oil						
General contractors	4 2, 414, 764	28, 413	4.2	1.2	\$ 7, 508, 399	74.5	All classes		56, 009			7.911, 519, 047	-1
Building Building not specialized Residential building only	1, 556, 592 1, 290, 743 265, 849	21,713	3. 2 1. 0	1.7	4, 234, 903	66. 4 64. 1	General contractors Street paving	4 2, 414, 764 351, 229	56, 009 56, 009	100. 0 100. 0	2.3 15.9	5 7, 508, 390 868, 630	

¹ Based upon the difference between the total value of all construction work reported and the value of subcontract work let.
³ Includes operative builders.
³ Less than one-tonth of 1 per cent.
⁴ Includes cost of materials reported by establishments which did not include designated material in their distributed lists.
⁵ Includes construction work reported by establishments which did not include the designated material in their distributed lists.
⁵ See note * of Table 9, on p. 623.

Includes cost of materials reported by operative builders who did not include the designated material in their distributed lists,
Includes construction work reported by operative builders who did not include the designated material in their distributed lists,
Includes cost of materials reported by subcontracting establishments which did not include the designated material in their distributed lists,
Includes construction work reported by subcontracting establishments which did not include the designated material in their distributed lists,

TABLE 11.-COST OF MATERIAL FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929

[This table is made up in three sections; the second section begins on p. 635, the third section on p. 637]

	This table is	mado dp m												
	Total cost	COST OF MATERI DISTRIBU BY KIN	ALS TED	Sand, gravel, crushed	Brick (face, common,	Tile, (fire-	Tile, facing terra	Con- crete	Cut stone,	Rip- rap,	: · · · ·		Plaster,	Struc-
CLASSIFICATION OF ESTABLISH- MENTS	of all materials	Amount	Per cent of total	stone, slag, cinders, etc.	fire, paving, etc.)	proof- ing)	cotta, floor, and wall	and cinder block	granite, and marble	rub- ble, etc.	Cement	Lime	etc.	tural steel
MICHIGAN	\$115, 480, 564	\$96, 064, 806	83, 2	*\$9.043.061	\$4, 874, 728	\$1,130,411	\$1,044,439	\$792, 891	\$2, 197, 510	\$32, 668	\$6, 477, 959	\$309, 939	\$1,148,742	*\$7,857,138
Operative builders		2, 743, 659	71.4	75, 346	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·					60, 823	12	1	16,720
General contractors	56 437 451	45, 834, 213	81.2	8, 597, 675	4, 486, 076	518, 113	415, 401	502, 693	1, 276, 649	25, 098	6, 105, 256	195, 981 178, 689	814, 754	1, 959, 369 1, 825, 514 1, 751, 130
Building not specialized	$\begin{array}{c} 56, 437, 451\\ 37, 804, 976\\ 31, 649, 284\\ 624, 614\end{array}$	29, 966, 353 25, 967, 928	79.3	2, 678, 602 2, 503, 674	4, 143, 871 3, 817, 918	490,692	352, 412	349.457	1,200,713 1,147,418	12,040	6, 105, 256 2, 624, 783 2, 523, 827 16, 649	175,088 151,030	757.801	1, 825, 514 1, 751, 130 87, 302
Building Building not specialized Commercial building only Manufacturing building only Residential building only	49,354	355, 122 29, 354 3, 613, 949	59.5	27, 116 6, 482 141, 330	4,835	216	4, 775 1, 139 56, 803		201	300	6:598	7,380 398 19,866	50,062	1,007
Highway Bridge and culvert	4, 296, 976 264, 994	3, 818, 046	88.9	2, 064, 660	30, 214		200	16,984			739,038	14,869		
Residential building only. Highway. Bridge and culvert. Grading. Street paving. Sewer, gas, water, conduit. Dan and reservoir. Waterworks. Dredging, river, harbor, etc. Levee Railroad Foundation. Central station, light and power plant.	107, 999 5, 691, 737 5, 544, 083	11 7.999	7.4 86.2	3,472	30, 861	8,759		3,470	71,076	500 500	1 79	600		11,693
Sewer, gas, water, conduit Dam and reservoir	5, 544, 083				245,946 90			1,796 1,230	128	500	1, 529			1,953 35,139
Waterworks Dredging, river, harbor, etc	1, 383, 936 244, 586 248, 853	103, 502	63.1 42,3	54, 832 72, 702 36, 261	19,700				4,010					
Railroad	222, 279 355, 492	200, 370	90.1	57,261	2 3,042		72	12 872	114		34,429)	178	9,606 4,800
Central station, light and power	82,035			9, 263	1	1		1	1	103	10, 95	1, 183		19.727
Vehicular subway and tunnel	110, 428	110, 428		7, 300	1		1				8,880			11,000
Subcontractors Carpontering and wood flooring. Concreting	¹ 55, 149, 720 1, 512, 354	47, 486, 934 1, 447, 318	86, 1 95, 7	370, 040	206, 845	610, 949	611, 091	103,043	892, 413	7, 570	311,880 60,530		270, 290	900
Electrical Electrical Heating and plumbing Heating and piping Plumbing Plumbing and heating com- bined Automatic temperature con- trol	1 55, 149, 720 1, 512, 354 361, 691 5, 503, 606 2, 121, 033 2 26, 387, 550 13, 995, 036 6, 755, 664	222, 528 5, 064, 619	61, 5 92, 0 100, 0	67, 389	9, 200				1,000					140
Heating and plumbing	² 26, 387, 550 13, 995, 036	2, 121, 033 20, 449, 349 13, 508, 951	77.5 96.5	525	40	1,524 1,307					1,018 550 462			26,163 26,163
Plumbing and heating com-	6, 755, 664	13, 508, 951 5, 470, 570	81,0	505		217					462			20, 103
bined Automatic temperature con-	5, 268, 345		22.3	20	1 N N N N N N N N N N N N N N N N N N N					1	1			
Automatic sprinkler systems			100.0 100.0	154 700	120 220	805 749	59 585	86 808	57 917	7.570	144 844	51.964	9 150	21.115
Masonry Painting and decorating	186, 185 1, 866, 663 701, 614 616, 161		88.0 93.2 93.7	104,700	100, 020									
Alass and glazing Plastering and lathing Roofing and sheet-metal work	657, 455 4, 112, 542	556, 970 3, 951, 179 2, 085, 156 975, 897	84.7 96.1	54, 579 1, 504	189, 320	3, 560					5,670	51, 257	258, 463	30, 374
		2, 085, 156 975, 897	98.6 96.4	225										
Sheet-metal work. Roofing and sheet metal combined	985, 158	800 126	90.4		· · ·					1.	1. S. S. S.	[1] T. M. K. K.	10000000	90 974
Steel erection	6, 596, 388 632, 234	6, 498, 100 632, 234 1, 263, 208	98, 5 100, 0 86, 1	8, 751 43 351	7,445	98 25	103 557, 405	4, 330	583, 999 249, 202		11,709 48,518	2, 232 2, 083	1, 541	10,741
Excavating	1, 466, 885 27, 689 539, 099	27,655	99.9 100.0	14, 732	232						3, 509			40,044
Highway Bridge and culvert	14,860 114,990	14,860	100.0 100.0	3, 600 1, 731	 7, 445 187 232 255						8,960 3,727			600 109, 226
Soundproofing Foundation	239, 081 180, 872 1, 440, 588	139, 361 180, 872 1, 347, 555	58.3 100.0	18, 557	255						3, 281 24, 089	15	2000000	2,752
Steie erection Stonework Marble and tiling Excevating Ornamental iron Highway Bridge and culvert Soundproofing Foundation Metal work, n. e. s Flooring, n. e. s	1, 440, 588 42, 208	1, 347, 555 42, 208,	100. OJ	040										
DETROIT	67, 582, 604	58, 412, 933	86.4	*6, 724, 337	3, 852, 849					<u> </u>				
Operative builders	2, 810, 945		85.3	67, 930		1, 349	1.1				51,672	1, 555		
General contractors Building Building not specialized	³ 34, 107, 712 23, 481, 526	20.613.289	86.4 87.8	5, 379, 540 2, 122, 966 2, 001, 278	3, 500, 470 3, 223, 022 3, 002, 673	312, 241 312, 241 299, 985	241 140	269, 914 268, 874 193, 980	784, 194	697	3, 786, 504 1, 865, 272 1, 816, 383	73, 157	683, 677 659, 204	1, 482, 683 1, 410, 905 1, 886, 140
Commercial building only	281.168	18, 428, 812 68, 950 29, 354	90.5 24.5 100.0	2,001,278 6,961 6,482	10,279	299, 985 289 216	775	2, 220	966 291		3, 682 6, 598	308		6,470 1,007 26,288
Manufacturing building only. Residential building only. Highway	1 2.806.287	2, 086, 173 406, 712	74.3 100.0	108, 245 245, 926	205, 235 25, 000	11, 751	42,008	72, 674	29, 315	300	38,659 35,450	14, 394	24, 383	26, 288 650
Highway Bridge and culvert Street paving	20,653 3,853,321	20,653	100.0 79.9	4,010 1,384,690					62, 436		6, 378 972, 023			7, 145 863
Sewer, gas, water, conduit Waterworks	761,848	500, 799	87.6 65.7	1, 485, 748 50, 032	234, 739 12, 690		72	150	4, 618		788, 187 67, 598		250	28,714
Dredging, river, harbor, etc Railroad Foundation	170, 479	148.570	100.0 87.1 100.0	6,000 31,261 41,601	2 3.042		72	12 872	114		28, 829 13, 887 8, 885	15	178	9,606 4,800
Vehicular subway and tunnel.	355, 492 110, 428	355, 492 110, 428	100.0	7, 300										11,000
Subcontractors	and the set	26, 551, 515	86.6	276, 867			482, 747				1.2.1	72, 808	169, 070	2,205,413 900
ing Concreting	1, 472, 565 223, 293	1,407,529 120,424	95.6 53.9	31, 905							29, 104			140
Elevator construction Heating and plumbing	2.121.033	11 2.121.0331	90.6 100.0 30.7	500		1 307					950			26, 163
Heating and Diping	3, 446 585 4, 029, 342	3, 108, 397	90, 2	500		1, 307					550 400			26, 163
Plumbing Plumbing and heating com- bined	2, 345 827	368, 622	15.7								1.1.1.1.1.1.1.1.1 ••••••••••	(:) \i		
Automatic temperature con-	107.878	l ·	100.0											
Automatic sprinkler systems. See'tootnotes on p. 634.	. 128, 336	128, 836	100,0]	•								and a start	 * * ````	

See'footnotes on p. 634.

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TABLE 11.-COST OF MATERIAL FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929-Continued

[See note at head of this table]

	·· · ·	ta di se		[See n	ote at nead		uniel	··· . ·	1					
CLASSIFICATION OF ESTABLISH- MENTS	Total cost of all materials	COST OF MATERI. DISTRIBU BY KIN	ALS TED D Per cent of	Sand, gravel, crushed stone, slag, cinders, etc.	Brick (face, common, fire, paving, etc.)	Tile, (fire- proof- ing)	Tile, facing, terra cotta, floor, and wall	Con- crete and cinder block	Cut stone, granite and marble	Rip- rap, rub- ble, etc.	Cement	Lime	Plaster, etc.	Struc- tural steel
and produce and the			total				·							
DETROIT-Continued.		-												
Subcontractors-Continued.	\$1, 741, 197	\$1, 569, 795	90.2	\$148, 106	\$175,720	\$605, 342	\$52, 065	\$70, 406	\$53, 217	\$7, 570	\$133, 174	\$50, 474	\$9, 000	\$19, 715
Masonry Painting and decorating Glass and glazing	487.728	\$1,569,795 487,728 527,131	100. 0 93. 2									19 336	158 575	
Glass and glazing Plastering and lathing Roofing and sheet-metal work.	393, 576	293, 091 2, 461, 083	98.1	19, 833 854		3,000					2, 674			30, 374
Roofing Sheet-metal work Roofing and sheet metal com-	1, 166, 578 692, 628	1, 100, 578 692, 628	100.0	225									•••••	
Steel erectionStonework	649, 909 2, 929, 559	2,831,271	96.6	629										30, 374 1, 958, 558 10, 741
Stonework. Marble and tiling	517,858 1,174,152	517,858	100.0	8, 751 41, 105 5, 000	7,445	98 25	430, 579				11, 709 39, 798	1,726	1, 495	10, 741
Marble and tiling Marble and tiling Excavating Ornamental iron Bridge and oulvert Samuencofing	13, 508 539, 099 114, 990	539,099	100.0 100.0 100.0	1. 731							3 727			46, 844
Soundproofing	239, 081 180, 872 1, 419, 857	139,361	58, 3	18, 557	255						3, 281 24, 089	15		2, 752
Soundproofing Foundation Metal work, n. e. S Flooring, n. e. S	1,419,357 42,208	1, 335, 974	94, 1 100, 0	525							1,025	25		
FLIN T		2, 646, 353	67. 2	72, 498		10, 627	57, 800	· · ·			65, 788		·	†\$43, 687
Operative builders		30, 940		1, 300			15 000	1, 300			1,950	1	2,600 18,526	10,087
General contractors. Building. Commercial building only Residential building only Hichway.	1 829, 113 858, 339 31, 506 939, 268	1, 160, 145 483, 651 31, 506 644, 988 20, 000	63.4 56.3 100.0 68.7	26,719 2,482 10,868 20,000	67, 946 56, 985 2, 018 8, 943	10,027 8,7 2 3 1,124 780	4, 800	85, 581 17, 022 65 18, 494	9, 874 9, 500 374		1,960 19,218	0, 108 140 809	18, 526 5, 095 420 13, 011	10,087 7,383 1,604
Highway Sewer, gas, water, conduit				2,600 8,520					4, 600					333, 600
Subcontractors Electrical Heating and plumbing Heating and piping Plumbing and heating com-	143, 444 893, 311 133, 803 435, 043	143, 444 591, 047 133, 803	100, 0 66, 2 100, 0 88, 5								5, 267			
Planting and decorating Plastering Roofing and sheet-metal work Roofing Sheet-metal work Roofing and sheet metal com-	324, 465 50, 800 43, 572 178, 221 87, 817	50, 800 43, 572 178, 22 87, 812	22.3 100.0 100.0 100.0 100.0 100.0	3, 000							607	2, 098	29, 869	
Roofing and sheet metal com- bined	32, 075 333, 600 49, 520	32, 075 333, 600 49, 520	100. 0 100. 0 100. 0	11				1			2, 200 2, 400	160		333,600
GRAND RAPIDS			i	<i>`</i>	· · · ·			ļ	50, 588	500	349, 222	28, 364	60, 905	
Operative builders			· ·	383, 299	6,400		600 33, 976		39, 041	500	337, 307	15, 769	13, 921	500 92, 777
General contractors. Building not specialized. Residential building only Highway. Bridge and culvert.	2, 224, 714 1, 851, 824 372, 890	1, 556, 592 1, 290, 743 265, 849 235, 199	71.3	104, 563 100, 979 3, 584 126, 900	157, 661 146, 482 11, 179	28, 208	33, 776 26, 781 6, 995	3, 490 3, 490	39,041 38,541		159, 568 153, 277 6, 291	15, 706 14, 563 1, 143	13, 921 12, 457 1, 464	92,777
Street paving. Sewer, gas, water, conduit	351, 229	351, 229	100.0	129, 416 22, 420	2, 103 943			1, 320		500	104, 263 13, 922			
Subcontractors Carpentering and wood flooring.	2, 083, 960	1, 830, 563		13, 415		400		2, 700	11, 497		11, 915	12, 595	46, 984	
Electrical Heating and plumbing	293,430	293, 430 993, 634	100, 0 92, 9											
Heating and piping Plumbing Automatic sprinkler systems_	293, 430 ⁵ 1, 069, 800 775, 857 204, 928	762, 857 184, 928	98.3 90.2											
Automatic sprinkler systems. Masonry Painting and decorating	45, 849 61, 680 00 246	40, 849 47, 650 51, 246	100.0 77.3 51.6		13, 500	400	1, 500	2, 700	4, 600		7, 480	1, 180	150	1, 400
Glass and glazing Plastering and lathing Boofing and sheet-metal work	45, 849 61, 680 99, 246 24, 820 91, 128 177, 790 83, 655	293, 430 993, 634 762, 857 184, 928 45, 849 47, 650 51, 246 24, 820 91, 128 163, 790 83, 655	100. 0 100. 0 92. 1 100. 0									11, 352	46, 834	
Roofing Roofing and sheet metal combined Steel erection Marble and tiling Metal work, n. e. s	94, 135 44, 460 160, 586 21, 231	80, 135	1	1, 019	135		53, 042		6, 897		. 3,401			44, 460 10
	<u> </u>	1		1	1	1	1	<u>1 · · · · · </u>	I ···	1	1.	<u>1 · · · · · · · · · · · · · · · · · · ·</u>	<u> </u>	<u> </u>

Certain establishments did not give a distribution of the cost of their materials by soparate items. The total cost of materials reported by such establishments is, however, included in totals in the column which carry a footnote to that effect. ¹ Wreeking, \$6,094; grading \$7,233. ² Pipe covering, \$70,442. ³ Grading, \$7,233. ⁴ Jumbing and heating combined, \$43,166. ^{*} See footnote * of table 9, p. 623. ⁴ Jsee footnote † of table 9, p. 623.

TABLE 11.—COST OF MATERIAL FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929—Continued

[See note at head of this table]

CLASSIFICATION OF ESTABLISH- MENTS	Reinforc- ing steel		- and	Metal and wire lath and furring	Orna- mental metal work	Lumber, rough and finished	Lath, shingles, and shakes	Millwork	Compo sition board	Water- proof- ing ma terials	Hard- ware, rough and finished	raints, var- nishes,	and sheet	Fin- ished floor- ing n. e. s.	Screens, shades, awn- ings, etc.
MICHIGAN	\$2, 224, 398	8 \$447, 244	5 \$819, 252	\$362, 82:	\$651, 875	\$7, 758, 06	1 \$356, 938	\$2, 909, 464	\$392, 565	\$204, 621	\$962, 25	8 \$1,810,63	8 \$4, 313, 426	\$417, 585	\$524, 003
Operative builders						1, 464, 536			·	·	·				
General contractors	2, 129, 869	9 184, 02/	436, 301	236, 45	306, 444	5, 828, 58	158, 893	1, 916, 444		117, 880	786, 98 708, 90	8 506, 99	4 254, 158	252, 539	84, 371
Building Building not specialized Commercial building only	1, 210, 978 1, 188, 833 10, 514	8 87, 804 3 85, 702	2 414, 713	228, 54	5 285, 384	3,658,71	1 84.336	1, 624, 257	79, 702	96, 574	558,950	8 438,65	$ \begin{array}{ccccccccccccccccccccccccccccccccccc$	223, 892	54, 285
Manufacturing building only Residential building only	10, 51	5				4,420		734	701	113	15,428	3 1, 3 03	122		28,960
Highway Bridge and culvert	10, 943	4 2, 384	4 650	5, 691 178	20, a00	1, 615, 228 42, 220 30, 390	3 73, 764	400 150	2,429	525	45,423	7 09/	5 968	23, 772	*0, 800
Grading Street paving	4	1				59, 290	0	8,000	500	1, 284	6, 624	- 30)	4, 875	1, 000
Sewer, gas, water, conduit Dam and reservoir	172, 532	43, 272	2 234			133, 60	1 83	251	000	371		2 27	14,000		26
Waterworks Dredging, river, harbor, etc	46, 044		300			7,800	0ł			100	5,900	0 200	7, 722		
Levce Railroad	14, 218 6, 984					10, 78	5			7, 163	4, 27				
Foundation. Central station, light and pow-	20, 797	7				53, 38	8 390		48	468	2,48				
er plant Vehicular subway and tunnel	9, 436 18, 673					18, 172	2	70			1,00	0	3, 030		
Subcontractors Carpentering and wood flooring			373, 659	124, 884	340, 004	464, 930	3 129, 570	821, 831		80, 916	86, 48	4 1, 258, 11	5 4, 040, 000 290	128, 337	427, 800
Concreting	1 8 189	683	14, 984 1, 087	640	148	4,164	30,000	300	34, 505	6, 233 39, 783	1,04	9 78	0 29(2	70, 283	1, 270
Electrical Heating and plumbing Heating and piping		16, 001		200		6,880		150	25, 050		140 200	0 3, 070	98,058		
Plumping	'	14, 651		200		2, 100)	150	25, 050			3, 04			1
Plumbing and heating com- bined	41 004	1, 150	8, 320	100	100	32 280)	3, 000	80, 949	4, 516	200 761		5 500		
Painting and decorating	41, 804									4, 010		653, 041 577, 488			
Plastering and lathing Roofing and sheet-metal work		1, 678	28, 250	110, 819	5, 131		33, 530 65, 000	25	2,805	4, 043 14, 940	1, 647			24.381	
Roofing Sheet-metal work						·			31, 615 3, 000 1, 500	2, 550	1, 498		2,001,193		
Sheet-metal work. Roofing and sheet metal com- bined. Steel erection. Stonework. Marble and tiling. Even varius.				_	131				27, 115	12, 300	150	414	691, 800	24, 381	
Steel erection Stonework	3, 169 130	6, 339	292, 281	6, 339		140				135	1,328 235		280, 000		
Marble and tiling	1, 373 1, 373		231	6, 986	15, 555	302 239	1,040		147	39 3	1, 031	454			
Ornamental iron Highway	900	236, 066			255, 189	1, 800				1,000					
Soundproofing						87, 558			65, 498	806 2, 221		9, 763	36, 222	12, 376	
Marble and thing Granamental iron Highway Bridge and culvert Soundproofing Foundation Motal work, n. e. s Flooring, n. e. s	20, 502		28, 500			729				1, 561 5, 785	10, 136	3, 573		19, 296	426, 530
DETROIT				231, 289	581, 134		262, 900	2, 002, 297	293, 986	150. 447	555.098	1, 406, 548			487, 882
Operative builders	8, 459		9, 192	1, 214	4, 967	1, 321, 627	61, 775	130, 838	12, 595	3, 622	75, 882	38, 106	9, 379	30, 608	9,772
General contractors		81, 637	265, 814	187, 656	243, 190	3, 173, 091	76, 725	1, 075, 717 1, 075, 466	57, 419	68, 829	395, 864	327, 403 324, 272	82, 089 72, 041	161, 755 161, 755	67, 707
General contractors. Building Building not specialized Commercial building only Manufacturing building only.	911, 597 904, 975	31, 192	265, 814 265, 413 255, 581	187, 542 185, 127	243, 190 243, 190 231, 405	3, 173, 091 2, 900, 956 2, 052, 123 27, 696	76, 252 32, 005	919, 604 200	57,371 28,240	60, 225 52, 784	386, 054 308, 044	289,880	42, 041 42, 476	152, 833	57, 681 37, 397
Manufacturing building only.	165 685		855		!	4, 420 822, 717		734 154, 928	380 701	108 113	3, 150 866	690 200 22 407	122	8, 922	20 284
Residential building only Highway Bridge and culvert	5, 772 61, 020		0, 977	2,410	11, 685	4, 648	44, 247		27, 960	7, 220	73, 994	33, 497			
Street paving Sewer, gas, water, conduit	4, 274 41, 822 148, 202	94 39, 222	101			30, 859 99, 696	83	251		734 139	1,406 966 521				26
Waterworks Railroad	46, 044 5, 384	8, 307	300	114		1,600 23,887				100 7, 163	521 150 4, 278	200 2, 500	6, 472		
Foundation Vehicular subway and tunnel	20, 797 18, 673	1, 200				53, 388 50, 200	390		48	408	2, 489	843	46 3, 030		
Subcontractors	78, 974		372, 132	42, 419	332, 977	449, 574	124, 400	795, 742	223, 972	77, 996		1, 041, 039	2, 506, 680	126, 286	420, 403
Carpentering and wood flooring. Concreting	4, 534		14, 984		148	374, 491 2, 380	30, 000	795, 567	23, 705	6, 233 39, 767	69, 959	8, 020	290	70, 233	1, 270
Heating and plumbing		14, 651		200		$ \begin{array}{c} 176 \\ 6,750 \\ 750 \end{array} $		150	25, 000		140	61 3, 000			
Heating and piping Plumbing	41, 354	14, 651		200		4,750 2,000		150	25,000		540	3,000	10,000		
Masonry Painting and decorating			7, 886	100	100	27, 219			80, 949	4, 283	549	100 487, 728 527, 131			
Plastering and lathing			28, 250	31, 041			28, 360	25	500 28, 320	1, 937 14, 740		1, 342	2, 169, 468	24, 381	
Roofing and sheet-metal work.									1, 500	2, 550		1, 250 92	1, 097, 132 660, 811	23,001	
Roofing and sheet metal com- bined									26, 820	12, 190			411, 525	24, 381	
Steel erection	3, 169 130		292, 281	6, 339	63, 881	146				135	1, 328 235		280, 000		
Marble and tiling Excavating	1, 373 1, 000		231	4, 739	13, 659	130				28	1,000	321			
Ornamental iron Bridge and culvert		236, 066			255, 189					1,000 306					
Soundproofing							-		65, 498]	2, 221		9, 763	86, 222	12, 376].	

TABLE 11.-COST OF MATERIAL FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929-Continued

				I	See note	at head of	this tab	le]							
CLASSIFICATION OF ESTAB- LISHMENTS	5	Cast iron, miscel- laneous, (exclud- ing pipe)	and	Metal and wire lath and furring	Orna- mental metal work	Lumber, rough and finished	Lath, shingles, and shakes	Millwork	Compo- sition board	Water- proof- ing ma- terials	Hard- ware, rough and finished	Paints, var- nishes, and glass	Roofing and sheet metal	Fin- ished flooring n, e. s,	Screens shades, awn- ings, etc.
DETROIT-Continued.		1.41										1 .			14.1
Subcontractors—Continued. Foundation Metal work, n. e. s. Flooring, n. e. s.	\$26, 552 862	[\$28, 500							\$1, 561 5, 785	\$10, 136				\$419, 133
FLINT							\$16, 466		\$1,433	2, 982	38, 590		\$193, 484	1 . · · ·	
Operative builders						7, 800		8, 900			1, 300	650	3, 900		
General contractors Building Oommercial building only Residential building only Sewer, gas, water, conduit	8,946 80	530 530	2,800 1,800	3, 158 3, 158 2, 028 470 660	7,434 7,249 185	536, 452 128, 402 11, 089 396, 961	16, 466 7, 194	1, 218	1, 433 298	2, 982 2, 472	36, 690 16, 081 925	24, 846 15, 809 462 8, 575	2,824	11, 540 3, 430 8, 110	2,404
Subcontractors Painting and decorating Plastering Roofing and sheet-metal work Roofing	200	1, 678 1, 678		5, 625 5, 125								50, 800 50, 800	169,993		
Sheet-metal work Roofing and sheet metal com- bined Marble and tiling Excavating								**************************************					58, 329 32, 075		
Excavating	200	 		0U0											
GRAND RAPIDS	81, 460	8, 874	\$6, 761	19, 590	4, 990	552, 519	21, 899	168, 689	26, 377	1, 189	52, 367	89, 581	180, 866	4,005	12, 803
Operative builders	200					40, 000	2, 000	8,000	2,000						350
General contractors Building Building not specialized Residential building only Highway.	38, 161 37, 555 606 22, 128	300	36, 428 35, 578 850	2, 777 2, 038 739	1,055	490, 831 354, 866 135, 965 2, 700	14,729 10,599 4,130	39, 970	12,482 9,388 3,094 1,000	767 529 238	47, 700 31, 904 15, 796 57	13, 895 12, 271 1, 624	13, 449 11, 077 2, 372	3, 200 3, 200	2,850 2,200
Street paving Sewer, gas, water, conduit	17,047	6, 122 2, 452	133			1,911					4,368		17		
Subcontractors Carpentering and wood flooring Heating and plumbing	550		200	16, 813	1, 896	10, 772 6, 200								805	7, 391
Oarpentering and wood ilooring_ Heating and plumbing	550		200			4,400		3, 000			120	60 50, 673 24, 820	2,000 1,610		
Plastering and lathing Roofing and sheet-metal work_ Roofing Roofing and sheet-metal com-				15, 842 			5, 170						163, 790 83, 655		
Marble and tiling Metal work, n. e. s				971	1, 890	172			95						7, 397

TABLE 11.—COST OF MATERIAL FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929—Continued

[See note at head of this table]

	······································				note at n					····					
CLASSIFICATION OF ESTAB- LISHMENTS	Heating and ventila- ting cquip- ment	Plumb- ing and gas- fitting equip- ment	Electri- cal appli- ances and supplies	Eleva- tors, dumb- waiters, etc.	Pipe: Drain, tile, vitri- fied, con- crete, etc.	Pipe: Cast iron, sheet and tube steel, etc.	Wire cable, guards, and fenc- ing	Bitu- mi- nous paving mate- rials, etc.	Wood piling and timber	Ma- chin- ery	Freight, haul- ing or truck- ing to job	Metal prod- ucts, n. e. s.	Seal- ing mate- rials	Tex- tiles and caulk- ing mate- rials	Miscel- laneous ⁶
MICHIGAN	†\$15,386,687	\$5, 415, 946	\$5, 676, 129	\$2, 169, 886	\$1,986,194	\$1,341,867	\$154, 662	\$859, 600	\$80, 648	\$721, 915	\$117, 944	\$1,092,748	\$34, 886	\$16, 642	\$1, 944, 438
Operative builders	76, 271	84, 444	26, 512		35, 613	256	1, 867	75				60		250	2, 899
General contractors	213,076	457, 499	331, 625	28,776	1, 896, 188	994, 626	98, 898	848, 112		555, 915	42, 227	164, 385	34,886	6, 392	1, 859, 583
Building Building not specialized Commercial building only Manufacturing building	3, 500	197, 910 3, 992	231, 754 4, 230	28, 776 28, 452	90, 820 200	49, 918		61, 376		555, 915	7, 160 7, 160	1, 447 439 			1,859,583 1,616,794 1,577,396 5,000
niy niy Residential building only Highway Bridge and culvert Grading Street naving	109, 614	192, 143	79,197	324	180 10, 189 128, 974	5,178	2, 183	193			26 846	1,008		34	34, 314 9, 419
Bridge and culvert			2,000		0 125	1 19	1 215		3, 444		4, 159	3, 255			11, 500
Grading		30, 103	9,133		80, 755	30, 989 513, 886	3, 986	660, 357	324		1.750		33,082	5, 639	80, 714 1, 543
Dam and reservoir		7 600			30, 919	3,000			6 125		2 312	23, 729 9, 619 24, 283 101, 612	1,804	700	90, 473
Dredging, river, harbor, etc					38, 707	104,876	15,000		800 5, 603			9,619			
Railroad		7 109	501		5, 695		5,000		8,352			24, 283			41, 490
Foundation Central station, light and power plant		7,122			807 225	1, 550			00,000			440			11, 150
Vehicular subway and tunnel.					220	2,490									7,650
Subcontractors	15, 097, 320	4, 874, 003	5, 317, 992	2, 141, 110	54, 393	346, 985	53, 897	11, 413		166, 000	75, 717	928, 303		10,000	81, 956
Carpentering and wood flooring				327								622 500			10, 780
flooring Concreting Electrical			5, 038, 402		10, 500	5, 500	20, 200	73							2, 161
Elevator construction				2, 121, 033 19, 750	30, 447	322, 776				166,000	1, 110	500			14, 597
Heating and plumbing Heating and piping Plumbing	12, 435, 892 1, 737, 260	595, 935 3, 511, 901	34, 564 18, 186		1, 165	155,024 93,700				166,000	1, 110				7, 337 4, 000
Plumbing and heating combined	507, 349				-	56 904						500			3, 260
Automatic temperature control			• • • •												
Automatic sprinkler		168 497				17.758									
Masonry Painting and decorating	360	168, 427 1, 650	290		3, 516	410					71, 960				6, 085 573
Plastering and lathing	100 000							4 449							2, 491 12, 192
Roofing and sheet-metal work. Roofing	133, 398 8, 228														2, 440
Sheet-metal work Roofing and sheet metal	38, 247					175		4 440							9. 752
Roofing and sheet metal combinedSteel erection	86, 923 175, 000	800				12,679	31, 697	4,442							1 550
Marble and tiling	183		222, 413		422	10					2, 647	5,355			3, 985
Excavating Highway					7, 508		2, 000							10.000	
Soundproofing Foundation			1, 529			5, 429						35,086			17, 358
Sheet-motal work Roofing and sheet metal combined Stonework Marble and tiling Excavating Highway Soundproofing Foundation Metal work, n. e. s Flooring, n. e. s								6, 898				886,740			9, 275
DETROIT	4, 420, 047	3. 034. 488	3, 950, 025	2, 149, 520	1, 186, 441	807, 818	109, 336	574, 525	70, 477	715, 672	80, 266	1, 074, 750	84, 788	15, 942	1, 781, 679
Operative builders			17,839		31, 118										2, 450
General contractors	118, 174	209, 541					55, 572	563, 112		549, 672	5, 659	151,071	-34, 783	5, 692	1, 711, 978
Building	116, 134 42, 059	179, 250 00, 889	220, 285 215, 772 165, 394	8, 410 8, 410	1, 116, 815 79, 411 71, 491	51,608 47,092	35, 454 33, 471	60, 884 60, 691		549, 672 549, 672	865 865	1, 447 439		53 19	1, 711, 978 1, 520, 694 1, 515, 309
Commercial building only Manufacturing building	1,000		1,000												
only Residential building only	73,075	118, 301	49.378		180 7, 740	4, 510	1, 983	193				1,008		34	84 5, 301
Highway. Bridge and culvert					16, 357	16, 161	1,000				2, 482				
Street paving Sewer, gas, water, conduit		17.369	3, 762		22, 763 935, 709	2,052	3, 684	501, 619 609					32, 979	5, 639	51, 520 846
Waterworks Dredging, river, harbor, etc	2, 040	5,800	250		59, 073				6, 135		2, 312	28, 729	1,804		89, 778
Railroad					2, 695 807	132 5,058			8,352			24, 283 101, 612			41, 490
Foundation Vehicular subway and tunnel_		7,122	501			2,490									41, 490 7, 650
Subcontractors Carpentering and wood floor- ing		2, 760, 282	8, 711, 901	2, 141, 110 327			51, 897			168, 000				10, 000 	67, 251 10, 780 2, 161
Concreting			3, 460, 791		10, 500	2,000	20, 200	73							, 101
Electrical Elevator construction Heating and plumbing	3, 955, 594	2,760,282	, .	2, 121, 033 19, 750	16, 882	219, 817				166.000					6, 629
Heating and piping	2, 345, 512	2, 760, 282 363, 178 2, 090, 701	27, 168	19,750	512	141,277				166,000					6, 629
Plumbing Plumbing and heating com- bined	1, 525, 655														
Automatic temperature con-		10,007													
trol Automatic sprinkler sys-	101,018	100 000													
tems		128, 336													

See footnotes on p. 638.

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TABLE 11.-COST OF MATERIAL FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929-Continued

[See note at head of this table]

· · · · · · · · · · · · · · · · · · ·			·····	L											
CLASSIFICATION OF ESTAB- LISHMENTS	Heating and vontila- ting equip- ment	Plumb- ing and gas- fitting equip- ment	Electri- cal appli- ances and supplies	Eleva- tors, dumb- waiters, etc.	Pipe: Drain, tile, vitri- fied con- crete, etc.	Pipe: Cast iron, sheet and tube steel, etc.	Wire cable, guards, and fenc- ing	Bitu- mi- nous paving mate- rials, etc.	Wood piling and timber	Ma- chin- ery	Freight, haul- ing or truck- ing to job	Metal prod- ucts, n. c. s.	Seal- ing mate- rials	Tex- tiles and caulk- ing mate- rials	Miscel- laneous ⁶
DETROIT-Continued.															- :
Subcontractors-Continued.			1.0		\$3, 196						\$71,960			_	\$5, 985 10, 398
Masonry Roofing and sheet-metal work.	\$111, 764				φο, 190 			\$4,442							10, 398 646
Roofing Sheet-metal work Roofing and sheet metal	30, 000														
combined	81,784					\$12, 679	\$31, 697								9,752
Stonework Marble and tiling	183		6000 419			16					2, 647				1, 559 3, 106
Executing			· · · · · · · · · · · · · · · · · · ·		7.508									\$10,000	
Soundproofing. Foundation Metal work, n. e. s			5, 229			5, 429						35, 086 882, 556			17, 358
Metal work, n. e. s Flooring, n. e. s								6, 898							9, 275
FLINT		* \$437,513		\$324	7,169	25,327	200							*i	40, 681
Operative builders	1, 560	3, 250	1, 300							. <u> </u>					
General contractors	17,499 17,499	72, 092 72, 092	23, 655 23, 655	324 324	7,169 1,169	22, 327 327	200			1					39, 486 39, 486
Building not specialized Commercial building only Residential building only	946	33, 270	6.143		899					.	•				11, 318
Residential building only Sewer, gas, water, conduit	14, 553		15, 482		270 6,000	$162 \\ 22,000$	200								
Subcontractors	226, 104	862, 171	151, 444			3, 000	•			1					
Electrical Heating and plumbing	217, 870	362, 171	8,000												
Heating and piping	109, 297 78, 579	24, 506 295, 464	8, 000			3, 000									
Plumbing Plumbing and heating com- bined	30, 000	1							1 .						1, 195
Plastering Roofing and sheet-metal work.	8, 228 8, 228														
GRAND RAPIDS			325, 188		247,456	12, 293	9, 868	58,00				4, 184	\$103		21, 449
Operative builders	<u> </u>				350										
General contractors	28, 413	33, 778	24, 072		245, 227	2, 33	9,863	56,00	9				10	3	19,168
Building Building not specialized Residential building only	28, 413 21, 713	33, 778 28, 225 18, 175	23,774 17,712		4, 690 4, 448	1,120	5 1,290 5 1,290								2, 595 2, 595
Residential building only	6, 700) 10,0 50	6, 062		242 15, 850		6,400		-						9,500
Bridge and culvert		5, 432			16, 101		2,080	56,00	0					3	6, 376
Sewer, gas, water, conduit		120	208	3	208, 586	1				1.					2, 281
Subcontractors	655, 720		293,430)	1,879										2, 281
Electrical Heating and plumbing	. 655, 360	316, 333 110, 893	7, 396	j 	1,879	9, 95									703
Heating and piping		165, 349													
Plumbing Automatic sprinkler sys- tems	36	40,091				5, 75	3		-	-					1,000
Masonry Painting and decorating) 1, 650 													573
Metal work, n. e. s	-	-						1	1	1			<u> </u>	· 1	·

Includes the reported cost of ready-mixed concrete; cast forms, beads, etc.; chemicals, and chemical products; and mineral products (nonmetallic) n.e. s. For total cost of these items see Table 9.

THAN	tion,	Volume of business		Amount		\$116, 051		1, 848, 930	1, 567, 295 116, 387 20, 000	97, 642 36, 800 4, 735	6,071	3, 725, 721	491, 061 267, 539 438, 085	91, 028 229, 773	396, 178	81, 465 1, 296, 307 251, 780		98, 164 17, 000	05, 012 3, 200 10, 629		
LESS	REMAINDER OF STA (1930 population, 2,948,579)	Volu	Num- ber of re-	port- ing estab- lish- ments		14		158	133 10	3 4 -	- 61	471	8819	00 g	22	885 885		© ∾ ı	210		
S OF ISHM	-REMAI (193		Total num- ber active		2, 945	97	2, 848	192	676 45 7	22.0	90	2, 087	302 130 312	2225	300	78 102	н 9	13 º 8	56 09 72	cent.	
USINES ESTABL	APIDS (ation, ()	Volume of business		Amount		\$20,000		207, 690	207, 690			413, 949	157, 019 38, 200	15,000	74, 563 6, 500	66, 667 43, 500				¹ Less than one-tenth of 1 per cent.	THEIR
PER]	GRAND RAPIDS (1930 population, 168,592)	Vol bu	Num- ber of re-	port- ing estab- lish- ments		1		15	15			28	24	11	'¥'	co (~ 4				one-tent	TED
ICTI ME	[]00		Total num- ber active	1929	873	4	869	208 208	204 1	-		663	151 151 60	1862	186	ឌដ្ឋន	2	∞ ç	20	s than o	REPORTED BUSINESS
NSTRU E VOLU	FLINT (1930 population, 156,492)	Volume of business		Amount				\$269, 476	229, 652	39,824	,	171, 224	47, 704 2, 000 20, 214	1		30,000 27,106 10,113			4, 995	¹ Les	ICH OF
A CC RAG	FLIN 30 popu 156,46	00 DIQ		port- ing estab- lish- ments				ន	30	8		53	00 03		П	0040					1929) WH VOLUME
AVE	61)		Total num- ber active	1929	278	8	252	116	105 1	9		136	នាងន	_		128°		0.01			$^{1}_{\rm VOL}$
NTS DC	рЕТЕОІТ (1930 рориlation, 1,568,662)	Volume of business		Amount		\$119, 305		376, 572	376, 572			1, 688, 196	87, 222 9, 548 231, 170	, 1200 25, 120 25, 120 25, 120 25, 120 26, 120	413, 595	72, 665 528, 664 47, 702		112, 807	62,506 9,445	of the State.	THAN \$25,000 in 1929) BY RANGE OF VOLU
HME	DETR(30 popt 1,568,6	οΩ Iq	Num- ber of re-			Ħ		33	8			191	¹ ¹		* 0 7	'8 4 °		80	7Q	der of t	AN \$
BLIS	61)		Total num- ber active	1929 1929	1, 569	151	1,418	278	271 3	F		1, 140	$^{39}_{307}$	142	±≌⊧	:98∷	co	23	133 2	remain	
Y, ESTA ESTABI		orted	Атегаде	per es- tablish- ment		\$9, 821		12, 341	12, 467 11, 639 10, 000			8, 426	6, 692 8, 721 7, 741		,			i w β	7, 645 9, 387 5, 014	hers in the	AS LES
NESS REPORTED BY, ESTABLISHMENTS DOING A CONSTRUCTION BUSINESS OF LESS UMBER OF KNOWN ESTABLISHMENTS, AND AVERAGE VOLUME PER ESTABLISHMENT		Volume of business reported		Amount		\$255, 356		2, 702, 668	2, 381, 209 116, 387 20, 000	137, 466 36, 800	4, 733 6, 071	5, 999, 090	783, 006 279, 087 727, 669	1, 000 137, 134 273 101	904, 445 57, 421	192, 130 1, 918, 744 353, 095		210,971	83, 512 65, 706 25, 069	Rapids, and the others in the remainder	BUSINESS WAS LESS WORK, CLASSIFIED
EPOR OF K	42,325)	ume of 1	1 F	cent of active		9.4		16.1	2002 2000 2000	31.0	33.3	17.7	22.8 21.3 13.4	25.0 21.8	500	21.6 21.6		22.2	4 8 9 4 9 9 9 9	Rapids	
ISS R. BER	MICHIGAN pulation, 4,842,325)	Vol		port- ing estab- lish- ments	957	36	931	219	191 10 2	0.41	161	712 -	1288	-228	130	នន្ទន		철어리	- 1- 10	10 in Grand	(WHOSE UCTION
NUN	Mi (1930 populs	<u>ــــــــــــــــــــــــــــــــــــ</u>		Per cent				25.3	23.3 .9 .1	÷		74.7	9.9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.	1.0	12.4	650 650 650	<u>-</u> е	1.2	3.6 3.6		S (W]
OF BI OTAL	(19	Known contracting establishments	Active in 1929	Num- ber	5, 665 -	278 -	5, 387	1,361	1, 256 50 7	57 - 6	0 W M	4, 026	514 514 702	4 225 237	565	162 980 139	401	8 a f	196	3 in Fli	MENT ONST
JME OF T		nown co establis	Inac-	tive in 1929	187	9	81	8	34	-		43	12 17		9	са са на		I.		Detroit	OF O
VOLI		R		ber ber	5, 752	38	5,468	1, 399	1, 290 53 7	9.78	~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	4,069	531 151 709	4 23 24	673	165 982 140	48	891 891	388	9 are in	STAB. UME
TABLE 12NUMBER OF, AND VOLUME OF BUSI \$25,000 IN 1929, PERCENTAGE OF TOTAL N			TYPES OF WORK		Total establishments canvassed (under \$25,000).	Total establishments, type of work un- known		Total general contractors classified	Building Highway Rridea and cuivert	Sewer, gas, water, conduit Dam and reservoir	Poundaing. Poundaing. Power blank.	Total subcontractors classified	Carpentering Concreting Electrical	Elevators. Heating and ventilating	Painting and decorating Glass and elexing	Plastering Plumbing and heating Sheet metal and roofing	Steel arection Stonework	Marble and tiling	Ercarating and grading Ornamental iron	t Of the inactive group, 29 are in Detroit, 3 in Flint,	TABLE 13ESTABLISHMENTS VOLUME OF CONSTRI

639

\$22,600 to \$24,999

\$12,500 to \$15,000 to \$17,500 to \$20,000 to \$14,999 \$17,499 \$19,999 \$22,499

\$10,000 to \$12,499

\$7,500 to \$9,999

\$5,000 to \$7,499

\$2,500 to \$4,999

Less than \$2,500

Total

CLASSIFICATION

\$∥\$?;1

\$\$ **1**187 --

75 32 2 2

8 84-

H 83.

9 88 9

5 87-

and a state of the state of the

Total general contractors and subcontractors

967 219 25 25

General contractors...... Subcontractors..... Type of contracting unknown.....

ន្ទ នៃគ្ន°

8 837

MINNESOTA

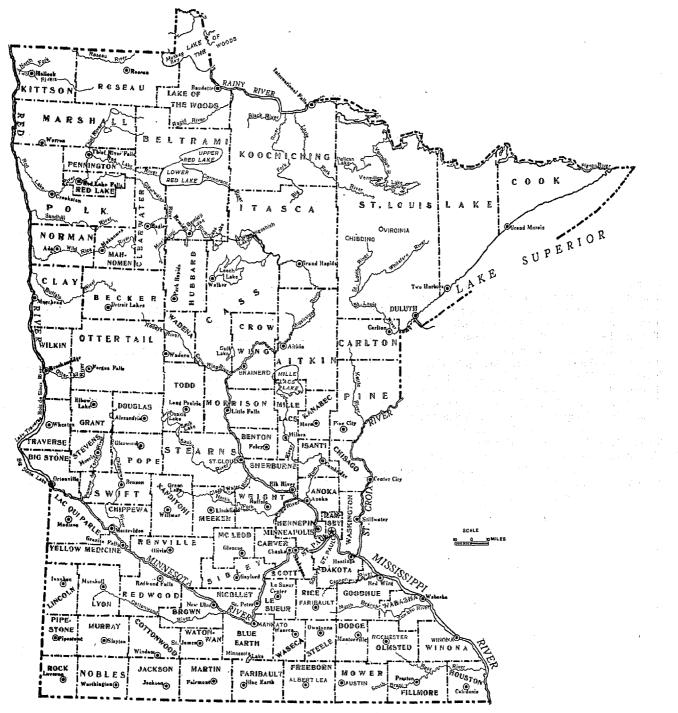
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 $127100 {---} 33 {----} 42$

641





 $\mathbf{642}$

CONSTRUCTION-MINNESOTA

TABLE 1 .- VALUE OF CONSTRUCTION BUSINESS DURING 1929, AND PRINCIPAL ITEMS OF EXPENDITURE

[Values expressed in thousands]

	nents		OF CONS' BUSINE		PRINCI	PAL EX TURES			ments		OF CONS BUSINE			TURES	PENDI-
AREA, CLASSIFICATION OF ESTAB- LISIMENTS, AND SIZE OF BUSI- NESS GROUPS	Number of establishment	Total	Under general con- tract or direct- ly for owner	Under sub- con- tract	Sub- con- tract work let	Wages paid	Cost of mate- rials	AREA, CLASSIFICATION OF ESTAB- LISHMENTS, AND SIZE OF BUSI- NESS GROUPS	Number of establishments	Total	Under general con- tract or direct- ly for owner	Under sub- con- tract	Sub- con- tract work let	Wages paid	Cost of mate- rials
MINNESOTA	561	\$105, 798	\$88, 829	\$16, 969	\$17, 687	825, 739	\$35, 259	MINNESOTA-Contd.							
Counties and principal cities			i					Size of business groups— Continued							
Counties: Aitkin	3 3 13 7 3 4 4 6 217	278 1, 709 436 155 756 214 990	272 238 1, 407 355 155 706 151 934 38, 061	40 302 81 50 63 56 10, 781	10 234 23 21 102 39 20 9, 338	448 108 42 149 34	402 106 505	Subcontractors	79	3,495 5,283 4,505 6,874 555	1, 671 1, 390 2, 115 262	2,173 3,612 3,175	\$001 32 105 164 154 146 613	951 1, 592	\$9,722 1,550 2,251 1,686 2,677 62 1,494 1,867
Kandiyohi Mower	5 4 4	404	331 389	73 4	38 58 20	i 90	165	Classification of establish-							
Beirrami. Biue Earth. Brown	$\begin{vmatrix} 4\\ 19\\ 9\\ 136\\ 7\\ 55\\ 10\\ 3\\ 3\end{vmatrix}$	2, 681 488 36, 184 887 6, 581 1, 131	481 2, 037 463 33, 055 727 5, 376 1, 078 192	644 25 3, 129 160 1, 205 53	358 17 6, 044 94 758 220	758 117 9, 201 192 1, 747 234 75	977 200 10, 189 475 2, 235 346 13	ments General contractors Building Highway and grading Street paving Other classes ¹⁰	9 3 5 5	1, 276 643 477 1, 856	3, 782 1, 276 643 477 1, 387	469	540 320 68 11 141	1, 045 284 208 102 451	1, 451 397 202 212 639
Waseca. Winona	3 11 35	597	$153 \\ 420 \\ 1,842$	171 130	15 41 228	133	41 266 669	Subcontractors Effecting and plumbing Heating and pipe covering.	20 7 3	1, 188 445 108	570 305		73 20	416 107 28	416 212 40
Principal cities: * Duluth Minneapolis	42	5, 440	4, 351	1, 088	613	1,462	1,867	Plumbing and heating combined Painting, decorating, and	- 4	337	805	82	20	79	171
Minneapolis St. Paul	213 133		37, 777 32, 848		9, 332 6, 031	11, 015 9, 153	10, 088	Marble, tiling, and plaster-	4	180		180		73	42
Classification of estab- lishments	:					 		ing Other classes ¹¹	4 5	211 352	64 200	147 151	6 47	67 169	75 87
Operative builders	1		410		185	1.00	144	Size of business groups			0 700	469	540	1, 045	1,451
General contractors. Building. Duilding not specialized Commercial building only . Residential building only . Highway Bridge and culvert.	200 144 21 35 35 15	39, 817 38, 529 3, 905 2, 382 9, 504 5, 825	5,803	52 52 149 22	1, 456 710 1, 787 124	8, 096 6, 970 690 436 1, 685 1, 297	$14,174 \\ 12,095 \\ 1,163 \\ 916 \\ 2,638 \\ 2,741$	General contractors. \$25,000 to \$49,999 \$50,000 to \$49,999 \$100,000 to \$199,999 \$200,000 to \$499,909 \$600,000 to \$499,999 \$1,000,000 and over	22 6 3 6 6 5	4, 251 225 224 954 1, 533 	8, 782 225 220 889 1, 533 915	4 65	25 22 181 192 120	1, 040 65 238 382 382	95 81 181 582 512
Grading- Street paving Sewer, gas, water, conduit- Dam and resorvoir- Dredging, river, harbor, etc Railroad Control station. light and	28 15 8 5	2, 729 1, 056 1, 948 1, 061 14, 048	3,882 2,729 1,055 1,948 951 14,048 874	293 1 110	730 82 59 134 48 2, 688 32	581 837 453 326 4, 683 817	346	Building contractors \$26,000 to \$49,999 \$50,000 to \$49,909 \$100,000 to \$199,999 \$200,000 to \$499,999 \$500,000 to \$499,909 \$1,009,000 and over	9 2 1 4	1, 276 90 05 579 542	90 65 579		320 25 13 181 101	284 17 11 103 153	897 35 24 181 157
power plant. Other classes 4 Subcontractors. Concreting. Electrical Heating and plumping	234	22, 698 518 2, 391	6, 762 258 854	260 1,537	56 17	6, 266 213 612	156 1,187	Subcontractors	20 11 6 3	1, 188 431 402 354	570 138 96 335	293 306	73 5 13 55	128 139	416 165 133 117
Heating and plumbing Heating and piping ⁵ Pipe covering	. 4	2 2, 535 185	1,449 26	1, 086 159 1, 875	107	58	1,342 80 1,608	\$1,000,000 and over							
Plumbing Plumbing and heating combined Masonry Painting and decorating 6	2	2, 424 401 2 1, 346	1, 256 106 297	1, 168 295 1, 049	51 	548 222 661	1, 218 94 308	MINNEAPOLIS Classification of establish- ments	213	48, 553	37, 777	10,778	9, 332	11, 015	17, 161
Plastering and lathing Roofing and sheet-metal work	. 13	1		1,063 1,058	46 12		1	Operative builders			11	1	109		
Roofing Sheet-metal work Roofing and sheet metal		806	346	460		190 141		General contractors Building Building not specialized	102 71 43	34, 436 23, 315 18, 748	34, 208 23, 286 18, 714	227 29 29	5,801	4,199 3,426	7, 818 6, 493
Kooning and sheet metai combined		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	50 485 224 32	1,922 1,384 464	1 152 98	333 382 68	64 1,323 413	Commercial building only. Residential building only. Highway and street paving. Bridge, culvert, and rallroad. Grading. Dredging, river, harbor, otc. ⁵ Other classes ¹⁹	13 15 13 7 6 3 3	2, 22;	2, 221		114	740 562 270 621	1, 035 1, 192 4
Size of business groups						10.100	05 505	Subcontractors Concreting	1 5	235	H 56	182		81	100
General contractors * \$25,000 to \$49,999 \$60,000 to \$99,909 \$100,000 to \$199,999 \$200,000 to \$499,999 \$200,000 to \$499,999 \$600,000 to \$899,999 \$1,000,000 and over		6 16, 806 8 19, 323 1 29, 948		218 400	480 1,074 1,327 4,082 4,561 5,562	758 1,361 1,991 3,632 4,733 2 6,998	1,997 2,498 4,982 5,755 9,055	Electrical Heating and plumbing Heating and plumbing Plumbing combined Masoury Painting and decorating ⁶	13 4 9	3, 941 1, 338 1, 681 922 401 728	824 572 626 106 165	1,920 515 1,109 296 295 563	87 18 18	903 358 394 239 222 334	2, 104 714 980 410 94 173
Building contractors * \$25,000 to \$49,099 \$100,000 to \$199,999 \$200,000 to \$199,999 \$200,000 to \$999,999 \$1,000,000 and over See footnoise at end of	-!	4 2, 277 8 3, 942 5 4, 966 3 10, 172 3 9, 240 4 9, 629	4,966 10,148 9,240	25 24	990 2,853 3,258		14, 318 1, 008 1, 657 1, 846 3, 415 2, 453 3, 939	Plastering and lathing Roofing and sheet-metal work	9 6 5 4	923 580 1, 059 665 2, 146 464	246 33 157 224	1, 026 511 1, 922	2	144 327 212 333 68	267 456 2 1, 323 217

TABLE 1 .- VALUE OF CONSTRUCTION BUSINESS DURING 1929, AND PRINCIPAL ITEMS OF EXPENDITURE-Continued

[Values expressed in thousands]

						[values	expresse	a in thousands							
· · · · · · · · · · · · · · · · · · ·	ments	VALUE	OF CONS BUSIN		FRINC	IPAL EX TURES	PENDI-		ments		OF CON		PRINCI	PAL EXI TURES	PENDI-
AREA, CLASSIFICATION OF ESTAB- LIGHMENTS, AND SIZE OF BUSI- NESS GROUPS	Number of establishments	Total	Under general con- tract or direct- ly for owner	Under sub- con- tract	Sub- con- tract work let	Wages paid	Cost of mate- rials	AREA, CLASSIFICATION OF ESTAB- LISHMENTS, AND SIZE OF BUSI- NESS GROUPS	Number of establishments	Total	Under general con- tract or direct- ly for owner	Under sub- con- tract	Sub- con- tract work let	Wages paid	Cost of mate- rials
MINNEAPOLIS-Contd.								ST. PAUL-Continued.					- 14 - 14		ana a
Size of business groups					1			Classification of establish- ments-Continued							
General contractors • \$25,000 to \$49,999 \$50,000 to \$49,999 \$100,000 to \$109,999 \$200,000 to \$109,999 \$200,000 to \$409,909 \$500,000 to \$399,999 \$1,000,000 and over	107 16 24 20 27 16 4	562 1,762 2,747 8,304 11,364	562 1,692 2,736 8,183 11,340	70 70 11 121 24	200 436 544 2, 473 2, 875	359 587 1,883 2,880	205 600 935 2,074 3,167	Subcontractors Electrical. Heating and plumbing Heating and pipe covering Plumbing Plumbing and heating combined	61 5 30 10 13		448 894 624 216	$156 \\ 1, 129 \\ 343 \\ 369$	101 49 20	140	313 1,075 536 311
Building contractors 9 \$25,000 to \$49,999 \$50,000 to \$00,909 \$100,000 to \$109,999 \$200,000 to \$499,999 \$500,000 to \$999,099 \$1,000,000 and over	19 11 19	562 1,350 1,553 6,148	563 1,35 1,55 6,12 5,60	2 3 4 2 2	206 399 319 1,857	95 243 371 1,412 1,144	205 514 560 1,905 1,365	Painting and decoratingPlastering, marble, and tilingRoofing and sheet-metal work RoofingRoofing and sheet metal combinedOther classes ¹⁶	4	333 373	133 13 100 100	206 360 483 95 388	12	179 176 165 52 113	69 126 257 79 178
Subcontractors	28 38 21 17 2	$\begin{array}{c} 1,016\\ 2,573\\ 2,916\\ 4,964\\ 2,423\end{array}$	34 1,00 58 1,40	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	24 24 41 12:	2 297 761 5 1, 118 2 1, 347 362	482 1, 183 948 2, 033 1, 494	Size of business groups General contractors * \$25,000 to \$49,099 \$50,000 to \$99,099 \$100,000 to \$109,090 \$200,000 to \$409,999 \$200,000 to \$409,999 \$1,000,000 and over	19 12 14 12 8 8 $ 8 $	676 933 1,950 3,646 5,190	933 1,941 3,640 4,990	2	141 212 348 912 1, 326	158 208 552 652 917	242 326 530 1,114 1,459
ST. PAUL Classification of establish-	193	35,981	32, 84	B _ 8, 132	6, 031	9,105	10,088	Building contractors 4 \$25,000 to \$49,999 \$50,000 to \$49,999	1	7, 732	7, 732	2 2 1	2, 337	1,626	
ments General contractors 9 Building not specialized 9 Residential building only Highway Bridge and culvert Grading Street paving Street paving Railroad Other classes ¹³	43 36 7 2 2 2 2	7, 732 7, 389 344 3, 002	$\begin{array}{c} 7,73\\7,38\\2,99\\3,01\\1,07\\0&1,35\\5&60\\7&13,46\end{array}$	$ 2 \\ 4 \\ 3 \\ 4 \\ 2 \\ 2 \\ 194 \\ 5 \\ $	2, 199 2, 014 174 34 541 14 2, 685	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2, 612 2, 514 98 651 1, 477 79 407 248 2, 362	\$25,000 to \$20,999 \$100,000 to \$199,999 \$200,000 to \$199,999 \$1,000,000 to \$199,999 \$1,000,000 to \$999,999 \$25,000 to \$49,999 \$100,000 to \$190,999 \$100,000 to \$190,999 \$500,000 to \$499,999 \$500,000 to \$499,999 \$1,000,000 and over		$\begin{array}{c} 696\\ 1, 467\\ 1, 746\\ 2, 038\\ 1, 309\\ 4, 878\\ 3, 1, 100\\ 1, 101\\ 5, 647\\ 5, 1, 410\\ 5, 556\end{array}$	690 1,467 1,749 2,03 ³ 1,30 ³ 1,955 40 ³ 213 5,27 700	2 2, 920 5 671 5 880 4 371 6 704	212 305 521 729 290 255 20 4 53 32	$\begin{array}{c c} & 148 \\ & 428 \\ & 336 \\ & 420 \\ & 196 \\ & 1,295 \\ & 336 \\ & 336 \\ & 1,295 \\ & 337 \\ & 188 \\ & 260 \end{array}$	262 460 661 460 1,914 515 405 61,914 515 405 61,914 61,914 61,914 515 615 615 616 617 618 619

Includes Anoka, Becker, Benton, Big Stone, Carlton, Carver, Chippewa, Chisago, Goodhue, Jackson, McLeod, Marshall, Martin, Mille Lacs, Morrison, Nobles, Norman, Pennington, Pine, Pope, Redwood, Reaville, Scott, Steele, Todd, Wabasha, and Wright, for which data can not be shown without revealing individual operations.
¹ Data for cities are also included in the figures for the respective counties.
³ Includes listea are also included in the figures for the respective counties.
⁴ Includes automatic temperature control.
⁶ Includes steel erection.
⁸ Includes steel erection.
⁹ Includes steel erection.
⁹ Includes steel erection.
⁹ Includes server, gas, water, conduit; dam and reservoir; waterworks; dredging, river and harbor; and foundation.
¹⁰ Includes dam and reservoir; and deentral station, light and power plant.
¹¹ Includes am and reservoirs; and sound proofing.
¹² Includes waterworks; foundation, isound proofing.
¹³ Includes dam and reservoir; and central station, light and power plant.
¹⁴ Includes waterworks; drading; and sound proofing.
¹⁵ Includes waterworks; drading; and sound proofing.
¹⁶ Includes waterworks; drading; and counted.
¹⁷ Includes waterworks; drading; and counted.
¹⁸ Includes dam and reservoir; and econtrol.
¹⁹ Includes dam and reservoir; and econtrol.
¹⁰ Includes waterworks; drading; and sound proofing.
¹⁰ Includes waterworks; drading; and counted.
¹⁰ Includes waterworks; drading; and counted.
¹¹ Includes waterworks; drading, and foundation.
¹⁴ Includes waterworks; drading, and foundation.
¹⁵ Includes waterworks; drading, and foundation.

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TABLE 2.—CONSTRUCTION BUSINESS OF REPORTING ESTABLISHMENTS DURING 1929, BY CLASS OF OWNER-SHIP AND BY TYPE OF WORK

		CONSTRUCTIO	ON B	USINESS RE	PORT	ED BY		0	ONSTRUCTIO	N BI	JSINESS REI	ORTE	D BY
CLASS OF OWNERSHIP AND TYPE OF CONSTRUCTION WORK	All esta	classes of blishments	Get	neral con- ractors ¹	Sub	contractors	CLASS OF OWNERSHIP AND TYPE OF CONSTRUCTION WORK	Allesta	l classes of blishments	Get	neral con- ractors 1	Subo	ontractors
OF CONSTRUCTION WORK	Number	Value	Number reporting	Value	Number reporting	Value	of construction work	Number reporting	Value	Number reporting	Value	Number	Value
MINNESOTA							MINNESOTA-Continued				20		
All construction business Distribution not reported	561 46	\$105,797,994 4, 771, 049	327 13	\$83, 099, 776 1, 703, 092	234 33	\$22, 698, 218 3, 067, 957	All business under subcontract- Continued.	1		1			
Distributed by class of owner- ship Private Quasi public or community Public Distribution not reported	515 410 106 247 17	101, 026, 945 57, 084, 934 6, 227, 876 37, 714, 135 1, 573, 994	314 224 52 159 6	43, 458, 735 5, 359, 800	201 186 54 88 11	19, 630, 261 13, 626, 199 868, 076 5, 135, 986 468, 261	Distributed by class—Contd. Steel erection. Ornamental iron Marble and tiling. Wrecking Grading. Grading. Bridge and culvert. Sound proofing Metal work, n. e. s. Other classes ³	$ \begin{array}{c} 2 \\ 2 \\ 10 \\ 1 \\ 16 \\ 9 \\ 3 \end{array} $	$\left. \left. \left$	t 1	\$178, 721 } 226, 459 (²)	10 1 10	\$1, 920, 946 1, 400, 595 943, 783 1, 465, 927
Distributed by class of pub- lic ownership Federal	49 113 90 114	3, 800, 585 15, 376, 190 4, 105, 928	75 61	3, 410, 312 12, 836, 031 3, 682, 300	38 20	4, 667, 725 890, 273 2, 540, 159 423, 628 1, 313, 665	Bridge and culvert Sound proofing. Metal work, n. e. s. Other classes s. DULUTH		449, 237	I		3	(2) 30, 617 449, 237 185, 791
All business under general con- tract or directly for owners Distribution not reported	434 5	88, 829, 429 875, 462	329 4	82, 067, 620 803, 762	105 1	6, 761, 809 71, 700	All construction business Distribution not reported	42	5, 439, 507 349, 776	22 1	4, 251, 078 227, 314	20 2	1,188,434 122,462
Distributed by class Building Distribution not reported Distributed by class		87, 953, 967 46, 118, 345 2, 978, 360 43, 139, 985 16, 992, 265				6, 690, 109 5, 324, 439 520, 327 4, 804, 112 1, 383, 944	Distributed by class of owner- ship Private Quasi public or community Public Distribution not reported	39 38 13 24	2, 565, 914 259, 140	21 15 4 15 1	1, 717, 036 144, 877 2, 161, 846	18 18 9	1, 065, 972 848, 878 114, 269 102, 825
Distributed by class Commercial. Educational Hospital and institutional. Manufacturing. Military and naval. Public: Courts, jails, etc Religious and memorial Residential. Social and recreational	27 44 59 7 20 58	5, 170, 671 1, 448, 725 2, 956, 809 3, 205, 427 261, 588 704, 046 1, 731, 413	43 10 23 86 6 15 40	$\left. \left. \begin{array}{c} 4,753,510\\ 1,412,684\\ 2,502,211\\ 2,911,938\\ \right\} 931,165\\ 1,644,142\\ 5,621,627 \end{array} \right.$	$ \begin{bmatrix} 17 \\ 21 \\ 23 \\ \begin{bmatrix} 1 \\ 14 \end{bmatrix} $	$\begin{array}{r} 417,155\\ 36,041\\ 454,598\\ 293,489\end{array}$	Distributed by class of pub- lic ownership Federal State County or township Municipal All business under general con tract or directly for owners	23 0 8 18	2, 142, 304 108, 317 475, 123 227, 102 1, 241, 762	14 8 4 2 10	2, 039, 479 196, 552 670, 416 1, 172, 512	9 3 { 4 6 8	102, 825 1, 765 31, 810 _\ 69, 250
Air transport Rail and water transporta- tion Miscellaneous Highway and street	4 10 70 93	45, 171 408, 603 2, 456, 941 15, 465, 344 15, 153, 776 82, 488	2	445, 209 1, 991, 332 15, 094, 684		8, 565	Distribution not reported Distributed by class Building. Distribution not reported	1 32 22	43, 282	$ \begin{array}{c} 22 \\ 1 \\ 21 \\ 12 \\ 1 \\ 1 \end{array} $	43, 282 3, 738, 428 1, 287, 289		569, 705 569, 705 530, 729 60, 500
Public works and utilities Distribution not reported Bridge, turnel, etc Central station, light, and power plant. Dock, pier, retaining wall, etc Flood control, irrigation, and land drainage	74 2 72 27 14 3 6		61 24 8	14, 282, 811 4, 967, 755 988, 803 384, 000	11 3 6	10, 820 788, 477 48, 988 695, 280	Distributed by class Commercial Educational Hotel. Religious and memorial Military and naval Public: Courts, fails, etc Residential Manufacturing Ped pud desto incourts	20 15 11 7	1, 448, 490 540, 575 278, 670 120, 303 37, 888 140, 049 } 11, 420 303, 516	11 7 6 3 1 2 (1 	978, 267 391, 681 242, 150	9 8 5 4 3 1 3	470, 229 148, 894 36, 520 60, 574
Sewage disposal and drain- age Park, grounds, etc River and harbor improve- ment Water supply	18 0 6 12	2, 589, 074 184, 480 1, 482, 774 1, 865, 375	5	2, 589, 074 3, 512, 185	$\left\{ \begin{array}{c} 1\\ 1\\ 1\\ 1 \end{array} \right\}$	20, 444	Rail and water transporta- tion		10.000	1 1 9	(2) 1, 402, 512	 1	7, 000 7, 000
Refuse disposal plant Miscellaneous Railroad and car line Water power development Air transport work Miscellaneous, n. e. s	3 5 12 1 3 14	3, 367 51, 309 7, 127, 850 1, 117, 565 2, 971, 087	1 2 11	30, 911 11, 020, 789	ìĭí	23, 765 195, 713	Distributed by class. Central station, light, and power plant. Doek, pler, retaining wall, etc. Park, grounds, etc.	9 3 1	1, 402, 512 59, 803 }	9 3 1	1, 402, 512 59, 803		
All business under subcontract Distribution not reported	1	16, 968, 565 207, 840	26	1, 032, 156	188 3	15, 936, 409 207, 840	River and harbor improve-	1 1	430, 817		430, 81 7		
Distributed by class Concreting Masonry Electrical Heating and plumbing Heating and plumbing		16, 760, 725 756, 777 321, 038 1, 551, 593 4, 166, 662	26 7 2	1, 032, 156 } 523, 418		207, 340 15, 728, 569 554, 397 1, 551, 593 4, 166, 662	ment Sewage disposal and drain- age Water supply Highway and street Railroad and car line Miscellaneous, n. e. s	3 3 9 1 1	36, 578 875, 314 1, 080, 603	$\begin{cases} 3\\ 3\\ 1\\ 1\\ 1 \end{bmatrix}$	36, 578 875, 314 (²)	- { -	(2)
Automätic temperature con- trol	44 1 14 49 18 18 3 14 	1, 129, 046 203, 218 1, 772, 761 1, 061, 637 867, 320 55, 060 1, 057, 766 1, 064, 150 372, 367		(2) (2) (2) (2)		1, 129, 046 203, 218 1, 772, 761 1, 061, 637 867, 320 55, 060 (2) (2) (2)	All business under subcontract Heating and plumbing Pipe covering Plumbing and heating com- blued Painting and decorating Glass and glazing Roofing and sheet-metal work Boofing	19 3 2 2 1 3 1 3	170, 455		469, 363	16 $\overline{\left\{\begin{array}{c}3\\2\\1\\1\end{array}\right\}}$ $\left\{\begin{array}{c}2\\1\\1\\3\\1\end{array}\right\}$	618, 729 124, 017 107, 643 16, 374 170, 455 129, 875 37, 644
Roofing Sheet-metal work Roofing and sheet metal combined	15 17 3	372, 367 505, 591 186, 192	1 		14 17 8	505, 591 186, 192	RoofingSheet-metal work Sheet-metal work Marble and tiling Other classes 4	3 4 5	92, 231 154, 152 509, 593			3 4 2	37, 644 92, 231 154, 152 (²)

TABLE 2.—CONSTRUCTION BUSINESS OF REPORTING ESTABLISHMENTS DURING 1929, BY CLASS OF OWNER-SHIP AND BY TYPE OF WORK—Continued

<u> </u>								<u> </u>		<u> </u>			
	· · C	ONSTRUCTIO)N BU	JSINESS RE	PORT	ED BY-	and the second sec		ONSTRUCTIO			ORTE	D BY-
CLASS OF OWNERSHIP AND TYPE OF CONSTRUCTION WORK	All estal	classes of plishments		neral con- actors 1		contractors	CLASS OF OWNERSHIP AND TYPE OF CONSTRUCTION WORK	estal	classes of olishments	tı	neral con- ractors ¹		ontractors
	Number reporting	Value	Number	Valuə	Number reporting	Value		Number reporting	Value	Number reporting	Value	Number reporting	Value
MINNEAPOLIS					100	AND 000 FOL	ST. PAUL	199	\$35, 980, 506	72	\$31, 102, 418	61	\$4, 878, 088
All construction business Distribution not reported Distributed by class of owner-	213 	\$48, 552, 894 2, 022, 293	107	\$34, 662, 110	105	\$13, 890, 784 1, 818, 178	Distributed by class of owner-	12	668, 206		\$31, 102, 418		632, 966
Bip Private Quasi public or community Public Distribution not reported	202 167 42 84 11	30, 561, 485 3, 070, 212 12, 898, 904	106 80 13 41 3	84; 457, 995 21, 969, 400 2, 473, 882 10, 014, 713 928, 010	87	8, 592, 085 596, 330 2, 884, 191	ship Private Quesi public or community Public Distribution not reported	95 24 60	17, 015, 809	71 48 14 42	14, 426, 223 1, 539, 051	50 47 10 18 1	4, 245, 122 2, 589, 586 125, 333 1, 530, 203 24, 500
Distributed by class of public ownership Federal State County or townsbip Municipal	73 25 36 25	11, 549, 127 2, 501, 270 5, 772, 677 938, 464 2, 336, 710	38 10 23 13 10	2 182 887	35 15 13 12 12	318,383 1,473,723	Distributed by class of public ownership	- 59 - 15 - 33 - 19 - 88	916, 938 6, 143, 470 1, 661, 190	8	846, 813 5, 364, 358 1, 577, 769	7	1,505,70370,125779,11283,421573,045
All business under general con- tract or directly for owners Distribution not reported		87, 777, 020 700, 000	107 1	34, 4 85, 393 700, 000	46	3, 341, 627	All business under general con- tract or directly for owners Distribution not reported	97	32, 848, 308 97, 180	72	25, 480	1	1,951,601 71,700 1,879,901
Distributed by class Building	152 125 7		106 80 3	23, 953, 69	B 46 B 45 7 4	3, 114, 711	Distributed by class Building Distribution not reported	- 69	32, 751, 128 8, 809, 675 585, 210	71 47 4	7, 889, 169 530, 54	22	920, 506 54, 670
Distributed by class Commercial Educational	118 64 24	26, 191, 116 13, 213, 660 1, 924, 250		23, 356, 360 12, 169, 300 1, 693, 744	3 41 3 20	1,044,360	Distributed by class Commercial Educational Hotel	- 31	1.797.310			3 9) 4 (3	149, 215 49, 241
Hotel Hospital and Institutional Manufacturing Public: Courts, jails, etc Religious and memorial	20 27	1, 020, 530 1, 803, 911 1, 381, 032 375, 581		1, 218, 44	$ \begin{bmatrix} 5 & 12 \\ 5 & 12 \\ 7 & 10 \\ 8 & 12 \\ 8 & 12 \\ 7 & 11 \\ 7 & 11 \end{bmatrix} $	$\begin{array}{r} 321,244\\ 162,586\\ 4,138\\ 45,475\end{array}$	Hotel Hospital and institutional Manufacturing Military and naval Public: Courts, fails, etc Religious and memorial	- 10	$\left\{egin{array}{cccc} 626, 541 \\ 5 & 1, 239, 238 \\ 2 \\ 429, 559 \end{array} ight\}$	10	$\left\{ \begin{array}{c} 710, 550\\ 1, 148, 990\\ 42\\ 429, 550\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\$	5	00, 239
Religious and memorial Residential Social and reoreational Air transport Rail and water transporta-	02	3, 151, 231	11	2, 373, 73	6 29	777, 495 24, 028 5, 815	Religious and memorial Social and recreational Residential Rail and water transporta-	- 3	$\begin{array}{cccc} 402,066\\ 62,749\\ 3& 1,429,085 \end{array}$	1 22	$\left. \left. \begin{array}{c} 460, 10 \\ 1 \\ 2 \\ 1, 070, 43 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ $		
Rail and water transporta- tion Miscellaneous Railroad and car line Public works and utilities	28 2	3) 3 1,824,70 4,487,330	$ \begin{array}{c c} 1 \\ 4 \\ 5 \\ 2 \\ \end{array} $	4, 487, 33	7 11 8 1	211, 457	tion		$ \begin{array}{ccc} 6,008,248 \\ 6.495,327 \end{array} $	18	8 12, 225, 01		278, 559
Railroad and car line. Public works and utilities Bridge, tunnel, etc. Central station, light and	1'	4,497,76 3 1,657,24		(3) 7 (2) 7 (2)		2 (2) (2)	Public works and utilities Distribution not reported Distributed by class		2 7, 816, 924 1 71, 668		71,66	8	680, 836 680, 836
power plant Dock, pler, retaining wall, etc. Flood control, irrigation, and		1 967, 58	0	067, 58	0		Bridge, tunnel, etc Central station, light and power plant Dock, pier, retaining wall	i '	6 2, 455, 360 7 969, 280		6 2, 455, 36 2 (²)	0 	
land drainage	-1	4 3 1, 235, 54	1.	1) 2 (²)		1 (2)	Flood control, irrigation and land drainage River and harbor improve	-	1 1, 534, 650		1 1, 534, 56	6	
Park, grounds, etc. Sawage disposal and drain- geo. Water supply. Miscollanoous.	-	2 359, 22 2 31	10	2 359, 22 2 2 (2)	9	1 (2)	ment Sewage disposal and drain	-	2) 6 2, 041, 849][:	2 6 2, 041, 84	0	
Miscellaneous, n. e. s	-	$\left\{ \begin{array}{c} 309, 22\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 1\\ 7\\ 1\\ 7\\ 1\\ 1\\ 7\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\$	4 {	1 } (2) 3 212,95	7	14 194, 477	age Park, grounds, etc Water supply Migcellaneous		$\begin{bmatrix} 2, 041, 841\\ 1\\ 2\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\$	lir i	$\begin{bmatrix} 2, 011, 01\\ 1\\ 2 \end{bmatrix}$ (7)	{	
All business under subcontract Distribution not reported	- 9	1 107,84	0	9 226, 71 9 226, 71	-	0 10, 549, 157 1 107, 840 9 10, 441, 317	Air transport work	_	1) 1 3, 620, 954	4	1 1 3, 620, 95 4	4	
Distributed by class Concreting Electrical Heating and plumbing	-	9 235,76 2 1,120,01	4 6 1	220,71 3 ··· 66,11	0 1	6 169, 656	All business under subcontract Distribution not reported	4	7 3, 182, 198 1 45, 000		4 205, 71	_	45,000
Automatic temperature con-		495, 57	1	-	K	8 495, 577	Distributed by class Electrical Heating and plumbing		6 3,087,198 5 156,53 1,084,54	211	4 205, 71	-	5 156, 535 1, 084, 545
trol Pipe covering Plumbing Plumbing and heating com-		$ \begin{array}{cccc} 1 \\ 7 & 115, 41 \\ 4 & 1,064, 66 \end{array} $	1 -			$\begin{bmatrix} 1 \\ 7 \\ 4 \end{bmatrix}$ 115, 417 4 1, 064, 667	Heating and piping Pipe covering Plumbing Plumbing and heating com	- 1	$\begin{bmatrix} 1\\1\\1\\375,72 \end{bmatrix}$	41		-{1 1	1 202, 01
bined Masonry Deinting and decorating	-	$\begin{array}{ccc} 6 & 266, 64 \\ 4 & 298, 96 \\ 8 \\ 1 \\ 9 & 922, 60 \end{array}$	3	-		6 266, 643 4 298, 963 8 398, 253	Plumbing and heating com bined Painting and decorating Glass and glazing	- in	$\begin{pmatrix} 6 & 416, 51 \\ 5 \\ 1 \end{pmatrix}$ 200, 02	11			$\left\{ egin{array}{c} 416, 51 \\ 5 \\ 1 \\ 200, 02 \\ 3 \\ 2 \end{array} \right\} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $
Glass and glazing Plastering and lathing Boofing and sheet-metal work	5	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2			$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Plastering and lathing Marble and tiling Roofing and sheet-metal work	τ.	$\begin{bmatrix} 5\\1\\200,02\\3\\2\\482,80\\482,80 \end{bmatrix}$	4			482.80
Rooting Sheet-metal work	-	$\begin{bmatrix} 1 & 154, 70\\ 5 & 138, 90\\ 2\\ 2 \end{bmatrix}$ 1, 920, 94	8			$\begin{bmatrix} 5 & 138,908\\ 2\\ 2 \end{bmatrix} 1,920,946$	Sheet-metal work Roofing and sheet metal con	 a-	3 79,35 5 217,25	5			79,35 5 217,25 3 180,19
Ornamental iron Marble and tiling Excavating Higbway Grading		$\begin{bmatrix} 2 \\ 4 \\ 5 \\ 8 \end{bmatrix}$ 1, 026, 35 5 471, 50	6	1 1 69, 3	17	$\begin{bmatrix} 4 \\ 1, 026, 859 \\ 4 \\ 2 \end{bmatrix}$ 1, 789, 691	bined Wrecking Excevating		$\begin{array}{ccc} 3 & 186, 19 \\ 1 \\ 4 \\ 4 \\ 3 \\ 1 \\ \end{array} \begin{array}{c} 259, 69 \\ 1 \end{array}$	4	2 205, 7		1 180, 19 2 492, 10
Motol Work D. B. S.		$\left. \begin{array}{c} 3\\2\\3\\3\\8\\200,97 \end{array} \right\} \left. \begin{array}{c} 1,387,41\\449,23\\200,97 \end{array} \right.$	2 { 37	1 3 91, 2	I.	1 3 449, 237 5 109, 681	Highway. Grading Other classes ⁶		$\begin{bmatrix} 3\\1\\3\\3\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\0\\1\\1\\1\\1\\0\\1\\1\\1\\0\\1\\1\\1\\0\\1\\1\\1\\0\\1\\1\\1\\0\\1\\1\\1\\0\\1\\1\\1\\0\\1\\1\\1\\0\\1\\1\\1\\0\\1\\1\\1\\0\\1\\1\\1\\0\\1\\1\\1\\0\\1\\1\\1\\0\\1\\1\\1\\1\\0\\1\\1\\1\\1\\0\\1\\1\\1\\1\\0\\1$		 	",,	1 8 111,50
Grading Metal work, n. e. s Other classes ⁸			37	1	90	3 449, 237 5 109, 681	Grading Other classes ⁸		3 111, 50		J 	¹ ***	8 111,0

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¹ Includes operative builders.
 ⁴ Value omitted in order to avoid disclosing individual operations. The amounts omitted are, however, included in the respective totals.
 ⁵ Value omitted in order to avoid disclosing individual operations. The amounts omitted are, however, included in the respective totals.
 ⁵ Value omitted in order to avoid disclosing individual operations. The amounts omitted are, however, included in the respective totals.
 ⁵ Value omitted in order to avoid disclosing individual operations. The amounts omitted are, however, included in the respective totals.
 ⁵ Value omitted in order to avoid disclosing individual operations. The amounts omitted are, however, included in the respective totals.
 ⁶ Includes establishments reporting the following types of work: General contractors—concreting, 1; highway, 1. Subcontractors—concreting, 1; sewer, 1. Includes establishments reporting the following types of work: General contractors—bridge and culvert, 2; dam and reservoir, 1. Subcontractors—carpentering, 1; sewer, 4. Includes establishments reporting the following types of subcontract work: Masonry, 1; rental of equipment, 1; flooring, n. e. s., 1.
 ⁶ Includes establishments reporting the following types of subcontract work: Masonry, 1; rental of equipment, 1; flooring, n. e. s., 1.

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TABLE 3.-CONSTRUCTION BUSINESS DURING 1929, BY LOCATION

CLASSIFICATION OF ESTABLISH- MENTS	Establishments reporting	Total	In home city	In home State	Outside home State	CLASSIFICATION OF ESTABLISH- MENTS	Establishments reporting	Total	In home city	In home State	Outside home State
MINNESOTA	543	\$101,154,817	\$41, 730, 728	864, 842, 286	\$36, 312, 521	MINNEAPOLIS	200	\$45, 028, 150	822, 725, 110	832, 468, 919	\$12, 559, 281
Operative builders	7	409, 950	409, 950	409, 950		Operative builders	· 5	226, 550	226, 550	226, 550	
General contractors Building Commercial building only Residential building only Bridge and culvert Grading Street paving Sewer, gas, water, conduit Dradging, river, harbor, eta.1 Railroad Central station, light and power plant Other classes ¹	196 141 21	38, 822, 112 32, 684, 724 3, 905, 330 2, 232, 058 9, 293, 602 5, 824, 661 3, 200, 948 2, 728, 682	2, 148, 209 1, 841, 010	29, 897, 246 25, 101, 298 2, 613, 890	$\begin{array}{c} 8,924,866\\7,583,426\\1,291,440\\50,000\\5,558,172\\2,514,130\\1,370,520\\294,343\\220,856\end{array}$	General contractors. Building. Commercial building only. Residential building only. Highway and street paving. Bridge, culvert, and railroad. Grading. Dredging, river, harbor, etc. Other classes 9.	68 41 13 14 12 7 5	$\begin{array}{c} 22, 617, 232\\ 18, 195, 569\\ 3, 429, 950\\ 991, 713\\ 4, 198, 645\\ 2, 604, 172\\ 646, 719\end{array}$	14, 630, 418 11, 968, 446 1, 741, 233 929, 739 203, 933 282, 792 35, 710	16, 678, 935 13, 544, 212 2, 143, 010 991, 713 1, 821, 238 1, 380, 564 545, 481	4, 651, 357 1, 286, 940 2, 377, 407 1, 223, 608 101, 238
Subcontractors	224	874, 480 3, 374, 769 20, 371, 016	77, 480 570, 005	774, 480 2, 000, 761 16, 668, 989	11, 779, 233 100, 000 1, 374, 008	Subcontractors Concreting Electrical Heating and plumbing Heating and piping ¹⁰ Plumbing Plumbing and heating com- bined	1 A	237, 691 901, 539 3, 402, 021 1, 338, 198	177, 691 851, 085 2, 826, 129 848, 306	9, 435, 275 227, 691 898, 099 3, 258, 511 1, 249, 688 1, 390, 166	2, 328, 307 10, 000 3, 440 143, 510 88, 510
Concreting Electrical. Heating and plumbing Teating and plping ³ Pipe covering Plumbing Plumbing and heating com- binubing and heating com-	26 102 21	1,950,9137,345,6812,334,798184,9852,650,074	$\begin{array}{c} 1,702,002\\ 5,683,078\\ 1,400,986\\ 109,959\\ 2,599,067 \end{array}$	1, 921, 378 6, 569, 455 1, 944, 059 165, 867 2, 610, 872	29, 540 776, 226 390, 739 29, 118 39, 202	Painting and decorating ' Plastering and lathing Roofing and sheet-metal work. Marble and tiling	8	299, 363 727, 749 814, 450 580, 147	533, 668 470, 766	187, 883 670, 946 590, 761 562, 547 584, 790	55,000 111,500 56,803 223,689 17,600 38,877
bined. Masonry Painting and decorating 4 Plastoring and latching Roofing and sheet-metal work. Roofing and sheet-motal	3 22 12 20	299, 363 1, 346, 009 1, 016, 208 1, 467, 310 806, 369	$\begin{array}{c} \textbf{1, 573, 000} \\ \textbf{34, 000} \\ \textbf{1, 170, 186} \\ \textbf{685, 379} \\ \textbf{1, 081, 667} \\ \textbf{576, 574} \\ \textbf{348, 593} \end{array}$	750, 614 1, 377, 129 760, 209	$\begin{array}{c} 317, 167\\ 111, 500\\ 58, 741\\ 205, 594\\ 90, 181\\ 46, 160\\ 44, 021\end{array}$	Metal work, n. e. s. ⁴ Other classes ¹¹ ST. PAUL	6 3 191	2, 254, 077 1, 401, 727 35, 483, 508	754, 965 70, 171 9, 794, 138	954, 021 1, 107, 150 16, 423, 207	127, 355 1, 300, 956 294, 577 19, 060, 299
Roofing and sheet-metal combined	3 9 8	174, 740 186, 192 1, 000, 631 1, 406, 614 2, 254, 977 1, 416, 458 282, 459	156, 500 652, 482	186, 192 869, 128 1, 020, 128	137, 503 446, 486	General contractors ¹² Building not specialized ¹² . Residential building only Highway. Bridge and culvert. Grading. Street paving. Sewer, gas, water, conduit Rallroad. Other classes ¹³	42 35 7 7 3 8 5 4	7, 435, 276 7, 091, 670 343, 600 3, 002, 485 3, 016, 272 1, 205, 539 1, 349, 691	343, 606 56, 584 1, 695, 162 70, 691	1, 027, 777 1, 695, 162 388, 794 1, 080, 158 488, 507	1, 321, 110 876, 745 269, 533 176, 245 11, 361, 235
DULUTH		4, 818, 074	2, 395, 393	8, 131, 254		Other classes 13	4	604, 480	319, 480	496, 480	108,000
General contractors Building Street paving Other classes 7	1	1,276,196	1	2, 196, 355 1, 159, 047 451, 780 585, 528	1, 201, 320	Subcontractors Electrical Heating and plumbing Heating and pipe covering. Plumbing	60 5 29 9 13	604, 332 1, 822, 903 767, 240	2, 566, 253 421, 775 1, 092, 995 296, 460 565, 727	3, 689, 653 578, 232 1, 310, 555 457, 059 569, 727	988, 435 26, 100 512, 348 310, 181 15, 000
Subcontractors Heating and plumbing Pipe covering and heating Plumbing and heating com- bined	20 7 3 4	444, 899 107, 845	805, 658 413, 428 83, 679 329, 749	934, 809 423, 733 86, 679 337, 054	253, 535 21, 106 21, 166	Plumbing. Plumbing and heating com- bined. Painting and decorating Plastering, marble, and tiling Roofing and sheet-metal work.	7	470, 936 333, 156 373, 424 583, 478	230, 808 294, 218 193, 283 391, 776	288, 769 331, 218 320, 507 523, 477	187, 167 1, 938 52, 917 60, 001 24, 560
Painting, decorating, and glazing Marble, tiling, and plastering. Other classes	4 4 5	180, 455 211, 298 351, 782	177, 455 84, 602 130, 173	180, 455 123, 684 207, 027	87, 614 144, 755	Plastering, marble, and tiling. Roofing and sheet-metal work. Roofing and sheet metal work. Coofing and sheet metal combined. Other classes ¹⁴	. 4 5 4		257, 718	170, 486 352, 991 625, 664	24, 560 35, 441 335, 131

Includes levee.
Includes dam and reservoir; waterworks; and foundation.
Includes dutomatic temperature control.
Includes flooring, n. e. s.
Includes steel arection; and ornamental iron.
Includes glass and glazing; bridge and culvert; foundation; and soundproofing.
Includes tighway; sower, gas, water, conduit; waterworks; dredging, river, harbor, etc.; and foundation.
Includes concreting; electrical; sheet-motal work; and highway.
Includes dam and reservoir; and central station, light and power plant.
Includes pipe covering; and automatic temperature control.
Includes pipe intervents; dredging, river, harbor, etc.; and foundation.
Includes pipe covering; and automatic temperature control.
Includes operative builders.
Includes waterworks; dredging, river, harbor, etc. and power plant.
Includes waterworks; dredging, river, harbor, etc. and central station, light and power plant.
Includes waterworks; dredging, river, harbor, etc. and central station, light and power plant.
Includes waterworks; dredging, river, harbor, etc. and central station, light and power plant.

TABLE 4.-CONSTRUCTION BUSINESS OUTSIDE HOME STATE, BY LOCATION

	LOCAT	ION REPORTED	BY		LOCATI	ON REPORTED	вү
STATE OR COUNTY	All classes of establish- ments	General contractors	Subcontrac- tors	STATE OR COUNTY	All classes of establish- ments	General contractors	Subcontra tors
MINNESOTA				MINNEAPOLIS-Continued			
Fotal distributed by State or county 1	\$36, 312, 521	\$32, 610, 494	\$3, 702, 027	Total distributed by State or county- Continued.			
Arkansas California	630, 702 1, 478, 535	630, 702 1, 451, 895	26, 640	Connecticut District of Columbia	\$1,258 1,532 1,375		\$1, 2 1, 5 1, 3
Colorado Connecticut District of Columbia	700 1,258 1,532		700 1,258 1,532 1,375	Idaho Illinois Indiana	939,635	\$409,642	529, 210,
Idaho	3 954 981	2, 417, 554	836.707	Iowa Kansas	698, 539 540, 014	552, 226 540, 014	146,
Ininois Indiana Iowa Kansas	201, 415	2, 471, 195 540, 014	201, 415 163, 105 18, 950	Louislana Michigan Mississi pi Missouri	$111,500 \\1,269,448 \\35,185$	917, 194	111, 352, 35,
Louisiana	111, 500 3, 710, 171	3, 278, 396	111, 500 431, 775	Montana	016,438	281, 808 580, 956	330, 9 35, 4
Mississippi	35,185	1,654,155 2,168,997	35, 185 336, 916 39, 420	Nebraska New York North Dakota	995 1,003,502 1,392,801	995 1,003,502 1,329,784	63,
Montana Nebraska New Jersey	995 619, 449	995 619,449	30, 420	Ohlo Oklahoma	169, 179 28, 300		109, 28,
New York	3, 152, 292	1,048,502 2,868,632	283,660	South Dakota Tennessee Texas	32, 996	235, 378	6, 32,
Ohio Okiahoma Oregon	28,300	1,958,208 1,102,065	206, 050 28, 300	Utah Washington	63,000 63,023 114,439	84, 439	63, 30,
Pennsylvania	384, 747 432, 182	384, 747 317, 095	115, 087	Utah Washington Wisconsin Other States	3, 978, 108 401, 686 12, 495	3, 807, 228 364, 758	110, 36,
Tennessee	353.4771	383, 477 539, 039	32, 996 63, 023	Canada ST. PAUL	12,490		12,
Utah Washington West Virginia	756, 429 1, 479, 502	726, 429	30, 000	Total distributed by State or county 4	19, 060, 299	18, 071, 864	988,
		5, 215, 550 123, 934 1, 104, 913	620, 199 60, 768	Arizona California	630, 702 1, 451, 895	630, 702 1, 451, 895 1, 458, 128	
Wyoming Other States, n. s Canada South America, n. s	175, 515 5, 000	120, 049 5, 000	55, 466	Illinois Iowa Kansas	1, 679, 344 556, 430 18, 950	541,638	221, 14, 18
DULUTH				Michigan	1,156,113 1,372,347	1, 078, 202 1, 372, 347 1, 435, 041	18, 77, 8,
otal distributed by State or county ²	1, 686, 820	1, 433, 285	253, 535	Montana New Jersey New York	1, 872, 847 1, 438, 979 619, 449 45, 000	1, 435, 041 619, 449 45, 000	8,
Illinois Michigan	83, 498 1, 251, 610	1, 250, 000	83, 498 1, 610	North Dakota	1,289,412 1,958,208	1, 106, 312 1, 958, 208	183,
North Dakota Ohio Wisconsin	63, 118 36, 871 145, 490	25, 575 66, 136	37, 543 36, 871 79, 354	Dregon Pennsylvania South Dakota	1, 102, 065 384, 747 185, 328	384, 747	108,
Other States Canada	10,464 95,769	1,574 90,000	8, 890 5, 769	Texas	820,477	77, 217 320, 477 539, 039	
MINNEAPOLIS				Washington West Virginia Wisconsin	641,990 1,479,502	641,990 1,479,502 908 341	832,
otal distributed by State or county ¹	12, 559, 231	10, 230, 924	2, 328, 307	Washington West Virginia. Wisconsin. Wyoming. Other States	1, 330, 758 123, 934 687, 581	998, 341 123, 934 672, 581	15.
California Colorado	26, 640 700		26,640 700	Canada South America, n. s	43,049 5,000	30,049 5,000	13, (

I All classes, 16-general contractors, 7; subcontractors, 9.

All classes, 60—general contractors, 37; subcontractors, 23.
 All classes, 55—general contractors, 38; subcontractors, 17.

TABLE 5.--NUMBER AND SALARIES OF PROPRIETORS, FIRM MEMBERS, AND SALARIED EMPLOYEES: 1929

·														
	 		IETORS MEMBI	AND FIRM				SALAR	ied emi	LOYEES		,		
CLASSIFICATION OF ESTABLISHMENTS	Estab- lish- ments report-	Re- ceiving		ving sala- ries		alaried em- oloyees		rs and cleri- al staff		intendents, men, etc.		ber repo by sex	orted,	Sex
·	ing	no salary	Num- ber	Total annual salaries	Total num- ber	Total annual salaries	Num- ber	Total annual salaries	Num- ber	Total annual salaries	Total	Male	Fe- male	re- port- ed
MINNESOTA	547	408	151	\$532, 706	1, 999	\$5, 292, 909	932	\$2, 831, 562	1, 067	82, 461, 347	1, 687	1, 471	216	312
Operative builders	7	4	5	14, 169										
General contractors Building Commercial building only Residential building only Highway Bridge and culvert Grading Street paving Sever, gas, water, conduit Dam and reservoir Dredging, river, harbor, etc.1 Railroad Central station, light and power plant Other classes 1	50 14 28 13 8 3 5		70 42 31 6 5 10 4 1 3	247, 343 160, 001 126, 769 16, 264 16, 968 21, 814 	$\begin{array}{c} 1,501\\ 571\\ 483\\ 60\\ 28\\ 134\\ 117\\ 83\\ 39\\ 18\\ 27\\ 88\\ 433\\ 15\\ 20\end{array}$	$\begin{array}{c} 4, 161, 495\\ 1, 513, 686\\ 1, 331, 660\\ 328, 759\\ 440, 913\\ 189, 336\\ 104, 934\\ 60, 094\\ 99, 400\\ 140, 527\\ 1, 120, 201\\ 55, 445\\ 58, 200\\ \end{array}$	552 268 229 21 18 55 43 40 20 9 23 23 24 49 7 14	$\begin{array}{c} 1,993,845\\ 781,378\\ 702,971\\ 55,002\\ 23,405\\ 155,349\\ 240,590\\ 119,082\\ 59,970\\ 30,563\\ 80,800\\ 111,874\\ 320,489\\ 35,400\\ 58,400\\ \end{array}$	$\begin{array}{c} 949\\ 303\\ 254\\ 39\\ 10\\ 79\\ 74\\ 43\\ 19\\ 9\\ 4\\ 14\\ 384\\ 8\\ 12\\ \end{array}$	2, 167, 660 732, 308 85, 085 17, 934 173, 410 200, 323 70, 304 44, 964 29, 531 18, 653 799, 712 21, 045 39, 800	1, 275 457 376 57 24 106 88 54 25 17 27 27 433 15 26		$ \begin{array}{c} 112 \\ 64 \\ 55 \\ 5 \\ 4 \\ 15 \\ 4 \\ 4 \\ 1 \\ 1 \\ 2 \\ 14 \\ 3 \\ \end{array} $	226 114 107 3 4 28 20 20 14 1
Subcontractors Concreting Electrical Heating and plumbing Heating and plumbing Pipe covering Plumbing Plumbing Plumbing and heating combined	8 26 105 21 4 4	153 5 11 73 7 1 39 26	76 3 14 44 9 20 15	271, 194 9, 502 40, 873 158, 472 31, 142 	498 18 83 195 56 16 67 56	$\begin{array}{c} 1, 131, 414\\ 31, 724\\ 169, 139\\ 485, 637\\ 176, 829\\ 24, 851\\ 152, 678\\ 131, 779 \end{array}$	380 6 70 166 43 12 65 46	$\begin{array}{c} 837,717\\9,350\\142,315\\405,792\\140,284\\15,661\\145,628\\104,219\end{array}$	118 12 13 29 13 4 2 10	293, 697 22, 374 26, 824 79, 845 36, 545 8, 690 7, 050 27, 560	412 18 68 163 47 13 56 47	308 17 53 117 34 9 41 33	104 1 15 46 13 4 15 15 14	86

TABLE 5.--NUMBER AND SALARIES OF PROPRIETORS, FIRM MEMBERS, AND SALARIED EMPLOYEES: 1929-Continued

•		PROPR	ETORS MEMBI	AND FIRM				SALAR	IED EMP	LOYEES				
CLASSIFICATION OF ESTABLISHMENTS	Estab- lish- ments report-	Re-	Recei	ving sala- ries		laried em- loyees	Office	rs and cleri- al staff		intendents, men, etc.	Num	ber repa by sex	orteđ,	Sex
	ing	no salary	Num- ber	Total annual salarics	Total num- ber	Total annual salaries	Num- ber	Total annual salaries	Num- ber	Total annual salaries	Total	Male	Fe- male	rg- port- ed
MINNESOTA—Continued. Subcontractors—Continued. Massoury	$ \begin{array}{r} 13 \\ 20 \\ 11 \\ 6 \\ 9 \\ 4 \\ 9 \\ 5 \\ 4 \\ \hline 41 \\ 22 \\ 0 \\ \end{array} $	$ \begin{array}{c} 2 \\ 17 \\ 14 \\ 0 \\ 6 \\ 3 \\ 1 \\ 15 \\ 11 \\4 \\ 27 \\ 19 \\ 11 \\ 27 \\ 4 \\ 2 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8$	5 3 1 2 1 2 1 8 5 1 3 1 3 1 3	salaries \$33, 052 4, 038 7, 236 1, 200 6, 036 1, 504 5, 527 10, 000 21, 732 11, 232 7, 200 2, 832 1, 200 10, 500	ber 13 24 12 55 56 12 25 11 25 11 25 11 10 121 76 19 16 7 34 45	salaries \$41, 680 55, 120 32, 948 104, 222 64, 415 25, 302 14, 505 88, 432 15, 505 35, 201 15, 132 326, 614 213, 804 40, 572 27, 180 9, 852 130, 200 112, 810	001 0 17 9 44 20 8 7 31 0 11 11 11 11 11 11 11 11 4 22 24 33	salaries \$10, 520 37, 183 24, 441 76, 525 50, 243 14, 777 14, 505 76, 432 7, 530 18, 101 13, 221 5, 247 215, 600 129, 634 10, 134 4, 400 1, 500 105, 600 85, 906	7 7 7 3 11 1 7 4 5 14 0 7 47 35 8 12 5 10 12 12	salaries \$22, 160 16, 937 8, 507 14, 172 10, 525 13, 000 10, 903 37, 405 20, 700 0, 885 111, 014 84, 170 21, 438 21, 780 8, 352 32, 600 26, 844	6 22 7 42 23 12 9 9 25 9 9 25 10 10 10 88 88 57 10 10 88 83 13 33 81	5 17 4 29 15 10 4 20 8 19 11 11 8 72 48 10 0 11 31 24	1 5 8 13 8 2 3 5 1 6 6 2 16 9 4 3 2	7 2 5 13 18 10 2 33 10 5 7 6 1
Heating and plumbing Pipe covering and heating Plumbing and heating combined Plumbing, decorating, and glazing Marbie, tiling, and plastering Other classes ⁸ MINNEAPOLIS	19 7 3 4 4 3 5 208	8 2 1 2 1 3 119	3 2 1 1 1 1 67	10, 800 7, 500 3, 500 4, 000 3, 000 	45 13 6 7 4 9 19 813	112, 810 43, 905 13, 068 30, 837 7, 447 24, 532 36, 926 2, 243, 853	33 11 4 7 3 9 10 456	85, 900 39, 405 8, 568 30, 837 5, 367 24, 532 16, 002 1, 362, 781	12 2 2 1 	20, 844 4, 500 4, 500 2, 080 20, 204 881, 072	81 7 3 4 5 15 682	24 4 2 2 4 14 583	7 3 1 2 1 1 99	14 6 3 3
Operative builders	3 3 103 5 12 42 8 21 13 4	$ \begin{array}{c} 1 \\ 45 \\ 5 \\ 24 \\ 5 \\ 16 \\ 3 \\ 5 \\ 5 \\ 4 \\ 4 \end{array} $	5 30 21 13 3 5 2 32 1 5 33 1 2 11 7 7 1 22 11 7 1 22 11 7 1 12 1 12 1 12 1 12 1 12 1 12 1 4 1	14, 169 111, 314 74, 034 51, 277 13, 564 9, 103 14, 400 10, 247 12, 633 128, 785 5, 502 18, 473 06, 526 5, 482 30, 874 21, 170 27, 352 4, 038 1, 894 	$\begin{array}{c} 531\\ 306\\ 232\\ 58\\ 16\\ 09\\ 64\\ 35\\ 23\\ 34\\ 35\\ 232\\ 28\\ 8\\ 45\\ 97\\ 14\\ 13\\ 282\\ 28\\ 8\\ 45\\ 97\\ 14\\ 13\\ 16\\ 16\\ 11\\ 13\\ 116\\ 16\\ 18\\ 31\\ 31\\ 16\\ 16\\ 18\\ 115\\ 31\\ 31\\ 116\\ 18\\ 116\\ 18\\ 115\\ 31\\ 31\\ 116\\ 16\\ 66\\ 6\\ 18\\ 9\\ 9\\ 411\\ 13\\ 116\\ 16\\ 16\\ 16\\ 7\\ 9\end{array}$	$1, 588, 273 \\ 857, 070 \\ 696, 783 \\ 138, 457 \\ 21, 839 \\ 196, 429 \\ 222, 155 \\ 99, 683 \\ 83, 527 \\ 122, 500 \\ 655, 580 \\ 11, 320 \\ 655, 580 \\ 11, 320 \\ 655, 580 \\ 101, 448 \\ 236, 721 \\ 123, 507 \\ 120, 507 \\ $	$\begin{array}{c} 248\\ 142\\ 113\\ 200\\ 9\\ 0\\ 33\\ 18\\ 10\\ 11\\ 25\\ 208\\ 38\\ 82\\ 33\\ 82\\ 33\\ 32\\ 17\\ 6\\ 11\\ 18\\ 8\\ 23\\ 32\\ 17\\ 6\\ 11\\ 3\\ 264\\ 165\\ 500\\ 57\\ 2\\ 20\\ 10\\ 28\\ 7\\ 11\\ 5\\ 7\\ 20\\ 28\\ 44\\ 4\\ 16\\ 15\\ 7\\ 8\end{array}$	896. 250 468, 928 405, 617 54, 522 8, 789 113, 832 90, 782 85, 484 51, 874 93, 400 466, 531 4, 060 87, 238 196, 341 4, 060 87, 238 196, 341 19, 520 30, 807 23, 761 23, 761 23, 761 135, 547 40, 488 166, 100 1, 036 10, 157 34, 970 24, 768 162, 100 1, 036 10, 157 34, 970 24, 368 203, 527 38, 200 242, 732 122, 576 30, 088 162, 501 15, 496 10, 880 32, 501 15, 496 17, 005 17,	283 164 119 38 7 30 40 16 12 9 9 74 5 7 7 4 3 7 7 4 3 7 7 4 3 7 7 4 3 7 7 4 3 7 7 4 3 7 7 4 3 7 7 7 4 3 7 7 7 4 3 7 7 7 4 3 7 7 7 7 4 3 7 7 7 7 7 7 7 7 7 7 7 7 7	602, 023 388, 161 291, 106 83, 935 13, 050 82, 507 122, 423 83, 050 82, 507 122, 423 83, 050 82, 507 122, 423 83, 010 14, 210 41, 380 22, 100 14, 210 41, 380 22, 100 14, 210 41, 380 22, 100 14, 402 1, 0, 280 16,	448 266 199 55 12 40 57 35 16 85 16 85 16 85 12 10 16 85 15 17 16 15 17 16 15 17 16 15 17 16 86 86 82 23 15 15 15 15 15 15 15 15 15 15	$\begin{array}{c} 405\\ 233\\ 172\\ 51\\ 10\\ 34\\ 50\\ 35\\ 178\\ 7\\ 7\\ 63\\ 24\\ 16\\ 51\\ 7\\ 63\\ 24\\ 16\\ 51\\ 13\\ 11\\ 10\\ 68\\ 24\\ 25\\ 7\\ 11\\ 8\\ 398\\ 8\\ 67\\ 18\\ 27\\ 11\\ 8\\ 398\\ 8\\ 67\\ 18\\ 27\\ 11\\ 8\\ 398\\ 8\\ 67\\ 18\\ 27\\ 11\\ 8\\ 398\\ 8\\ 67\\ 18\\ 27\\ 11\\ 8\\ 398\\ 8\\ 67\\ 18\\ 27\\ 11\\ 8\\ 398\\ 8\\ 67\\ 18\\ 27\\ 11\\ 8\\ 68\\ 8\\ 8\\ 18\\ 27\\ 11\\ 8\\ 398\\ 8\\ 8\\ 18\\ 27\\ 11\\ 8\\ 8\\ 8\\ 18\\ 27\\ 11\\ 8\\ 6\\ 8\\ 8\\ 18\\ 27\\ 11\\ 8\\ 8\\ 8\\ 8\\ 18\\ 27\\ 11\\ 11\\ 6\\ 6\\ 8\\ 18\\ 27\\ 11\\ 11\\ 6\\ 6\\ 8\\ 18\\ 12\\ 11\\ 11\\ 6\\ 6\\ 8\\ 11\\ 11\\ 6\\ 6\\ 8\\ 11\\ 11\\ 6\\ 6\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12$		83 40 33 3 429 7 7 7 48 11 11 11 11 11 11 11 13 3 85 70 200 29 4 22 8 3 41 15 28 4 14 14

¹ Includes levee. ² Includes waterworks; and foundation. ³ Includes automatic temperature control. ⁴ Includes facel receiton; and ornamental iron. ⁴ Includes steel erection; and ornamental iron. ⁵ Includes glass and glazing; bridgo and culvert; soundproofing; and foundation. ⁶ Includes sewer, gas, water, conduit; dam and reservoir; waterworks; dredging, river, harbor, etc.; and foundation.

⁸ Includes concreting; electrical; sheet-metal work; and highway.
⁹ Includes dam and reservoir; and central station, light and power plant.
¹⁰ Includes nighway; grading; and automatic temperature control.
¹¹ Includes highway; grading; and soundproofing.
¹³ Includes waterworks; dredging, river, harbor, etc.; and central station, light and power plant.
¹⁴ Includes excavating; grading; and foundation.

TABLE 6.-VALUE OF CONSTRUCTION EQUIPMENT, IN COMPARISON WITH CONSTRUCTION BUSINESS AND WAGES PAID DURING 1929

		4				Domina 1929					
	ents	EQUI	PMENT	Value of			ents g	equi	PMENT	Value of	
CLASSIFICATION OF ESTABLISH- MENTS AND PERCENTAGE OF EQUIPMENT OWNED	Establishments reporting	Pur- chased during the year	Inventory value at end of year	construc- tion busi- ness re- ported	Wages paid	CLASSIFICATION OF ESTABLISH- MENTS AND PERCENTAGE OF EQUIPMENT OWNED	Establishment. reporting	Pur- chased during the year	Inventory value at end of year	construc- tion busi- ness re- ported	Wages paid
MINNESOTA				\$94, 512, 825	\$23, 254, 802	MINNEAPOLIS	178	\$794, 131	\$2, 612, 510	842, 198, 242	\$9, 668, 758
Classification of establish-						Classification of establish-					
<i>ments</i> Operative builders	 6	750	2, 000	376, 450	39, 480	<i>ments</i> Operative builders	4	500	1,650	193, 050	17, 500
General contractors	275	2, 302, 966				Conord contractors	00	$\begin{array}{c} 662,041\\ 62,225 \end{array}$	1,976,206	32, 485, 196 21, 712, 444	6, 736, 561 3, 902, 804
Building not specialized	170 128	131, 157	1, 017, 700 921, 280	30, 658, 706	6, 324, 105	Building not specialized	62 39 11	53, 642 5, 913	322, 560 52, 935	17, 429, 105	3, 163, 737 574, 519
General contractors. Building Building not specialized Commercial building only Residential building only	15 27	6, 514	$\begin{array}{c} 8,591,657\\ 1,017,700\\ 921,280\\ 63,935\\ 26,485\\ 1,662,114 \end{array}$	3,707,970	6, 324, 105 653, 247 385, 239 1, 628, 806	Building not specialized Building not specialized Commercial building only Residential building only Highway and street paving Bridge, culvert, and railroad Gredtra	12	2,670	9, 901 544, 774	929, 344	164, 548 705, 306
Bridge and culvert	31 14	534,081 251,128				Bridge, culvert, and railroad	11 6 5	28, 025 124, 202	168,448 242,164	2,498,983	703, 861 534, 224
Residential building only Highway Bridge and culvert Grading Street paving Sewer, gas, water, conduit Dam and reservoir Dradging, river, harbor, etc. ¹ Railroad Central station, light and pow- er plant Other classes ¹	24 14	335, 956 144, 384	639, 812	5,717,472 3,993,838 2,195,253 906,346 1,948,322 870,242 14,047,940	1,243,541489,643309,393	Grading Dredging, river, harbor, etc. ¹ . Other classes ¹⁰ .	33	191, 789 32, 707	456, 688 178, 736	750, 242	269, 832 620, 534
Dam and reservoir	5	7,707	203, 505	1,948,322	453, 163	Omboontractors	84 4	131, 590	634, 654 7, 600	0, 519, 996	2, 014, 697 60, 635
Railroad	4	221, 789 528, 219	1, 730, 571	14, 047, 940	290, 832 4, 683, 233	Electrical	10 31	1,775 2,951 7,743	13, 905 65, 806	875, 039	248, 287 611, 534
er plant	3	26, 100	54, 500	665, 480		Heating and piping ¹¹	5	1, 534 2, 849	10, 472 38, 241	486, 308 1, 241, 960	119, 881 298, 202
Subcontractors	183	,	1, 407, 350	16, 633, 472	4, 863, 151	Concreting. Electrical Heating and plumbing Heating and piping " Plumbing and heating com- bined.	9	3, 360	17,093		193,451
Subcontractors	22		22, 989 29, 208 171, 110	483,747	201,600 458,893	Masonry. Painting and decorating 4 Plastering and lathing. Roofing and sheet-metal work. Marble and tiling. Excavating. Metal work, n. e. s. ⁴ Other classes ¹²	4	2,200 7,127	11, 607 28, 912	401, 488	221,866 207,646
Heating and plumbing Heating and piping	77		171,116 48,344	5.491.593	1, 188, 124 211, 339	Plastering and lathing	75	6, 660 3, 547	11,940	686, 228	322, 527 130, 115
Pipe covering Plumbing	3 84	746 7, 236	48, 344 2, 116 67, 992	143, 322 2, 175, 062	45, 643 527, 716	Marble and tiling	53	3, 231 41, 000	30, 537 25, 462 193, 142	1,059,457 520,251	326.619
Plumbing and heating com- bined	25			1, 783, 642 401, 488		Metal work, n. e. s. ⁴	53	3,109 52,241	24, 206 221, 537	793, 618	156, 727 189, 122 340, 619
bined. Masonry. Painting and decorating ' Plastering and lathing. Roofing and sheet-metal work. Roofing. Sheet-metal work. Marble and tilling Excavating. Highway and grading. Metal work, n. e. s. ⁴ .	4 16	11, 176	41, 180	401, 488 1, 073, 711 887, 986	221,866 547,090	Percentage of equipment		• • •			
Roofing and sheet-metal work.	11	7,966 9,151	41, 180 15, 790 69, 914 38, 360	1, 219, 980 716, 328	326.075	General contractors 7	94	662, 541	1, 977, 856	32, 678, 246	8, 754, 061
Sheet-metal work	10 7 9		31,554	503.654	175, 436 150, 639 458, 621	None. 1% to 25%	7			675, 421	121, 761
Marble and tiling	8	111.236	$\begin{array}{r} 41,053\\694,024\\280,991\end{array}$	1, 388, 748 1, 466, 614	423, 554 381, 805	20% to 50% 51% to 75%	4	1, 150 700	2, 522 1, 675	1, 656, 594 145, 057	234, 479 32, 000 2, 020, 628 4, 309, 271 35, 922
Metal work, n. e. s.	4	3, 109 2, 526	24, 206	1, 416, 458 793, 618 233, 459	189, 122 50, 729	76% to 99% 100%	19 58	489, 146	1, 510, 831	145,057 7,002,381 22,933,341 265,452	4, 809, 271
Percentage of equipment	1 A A		0,212	200,400		owned General contractors 7 None 20% to 25% 20% to 50% 51% to 75% 76% to 99% 100% Not reported Subcontractors None	4 84		1, 802 634, 654	9, 519, 996	2, 914, 697
Owned General contractors '	281	2, 303, 716	8, 593, 657	77, 879, 353	18, 391, 651	Suncentractors None 1% to 25%			1 100	150, 834	90 197
None 1% to 25%	10			849, 621		51% to 75%		150 40, 604		64, 682 930, 278	20, 137 13, 582 309, 759
26% to 50% 51% to 75%	5	8, 150 39, 297	58,495	1, 709, 303	247,729 176,578	100%	68 7	89,001 1,809	418, 185 9, 057	7, 389, 256	2, 266, 742 304, 477
76% to 99%	201	854, 574 1, 368, 663 33, 032	5, 208, 836	20, 175, 475 47, 514, 543	176, 578 7, 711, 740 9, 952, 667 155, 826	ST. PAUL	101	1, 165, 479	4, 384, 349	33, 297, 036	8, 486, 218
Subcontractors	183	254, 777	1,407,350	16,633,472	4, 863, 151	General contractors 7 Building	58 35	1, 091, 194 38, 482	3, 835, 742 314, 088 309, 638	29, 536, 110 7, 082, 297	7, 475, 119 1, 418, 170
None 1% to 25%	3			157, 565		Building Building not specialized ' Residential building only	31 4	38,482 36,722 1,760 124,779	309, 638	233, 107	1, 386, 020 32, 150
26% to 50% 51% to 75%		26 6,359	1, 180 25, 226 455, 217	150,834 132,466	20, 137 29, 795	Highway Bridge and culvert	53	124,779 205,801 58,915	514, 486 510, 884	2, 889, 555	401,331 528,971
76% to 99% 100%	11 152	95, 079 141, 468	455, 21, 862, 068	132, 466 1, 856, 501 12, 776, 957 1, 559, 149	$\begin{array}{r} 20, 137\\ 29, 795\\ 507, 199\\ 3, 688, 804\\ 522, 221 \end{array}$	Highway. Bridge and culvert. Grading. Street paving. Railroad. Other classes ¹³ .	3 4 3	55.208	95, 727 335, 951 1, 685, 019	1, 265, 539 816, 262	$\begin{array}{r} 235,617\\ 153,328\\ 4,445,734\end{array}$
DULUTH	35	101, 282			1, 331, 762	Other classes 13	5	92, 290	379, 587	999, 262	291, 968
Classification of establish-						Subcontractors Electrical Heating and plumbing	40	1.658	8,732	547,932	117.607
ments. General contractors	21	91, 973	1, 047, 655 58, 479	4, 060, 484 1, 276, 196 642, 512	1,010,792	Heating and plumping Heating and piping 14	18 9 9		8, 331	828 085	215, 493 115, 360 100, 133
Building Highway and grading	3	24, 596	166, 453	642, 512 476, 590	284, 425 208, 156 102, 301	Heating and ploing " Heating and ploing " Plumbing. Plainting and decorating Plastering, marble, and tiling Roofing and sheet-metal work.	5	835	5, 523 17, 736	217, 772	100, 133 119, 359 175, 831 118, 469 52, 021
Street paving Other classes ⁸	4	27, 994	739, 214	1, 665, 186	415, 910	Roofing and sheet-metal work.	7	, 202 989	25, 504 7, 923	426, 191 195, 046	118,469
Subcontractors Heating and plumbing	14	1,865	55, 545 7, 153 1, 705	866, 936 262, 236 157, 625	320, 970 56, 254 49, 316	Roofing and sheet metal com-	3	606	17,641	I 1	
Marble, tiling, and plastering _ Other classes ⁹	87	315 7, 129	46, 687	447, 075	40, 316 215, 400	bined Other classes ¹⁸	4	61, 822	470, 235	231, 145 960, 795	66, 448 264, 340
Percentage of equipment owned						Percentage of equipment owned	1.1				
General contractors			1, 047, 655	4, 060, 484	1, 010, 792	General contractors 7			3, 835, 742	29, 536, 110 124, 200	7, 475, 119 11, 350
None. 1% to 25%						None 1% to 25% 26% to 50% 51% to 75% 76% to 99% 100% Not reoprted					104 865
51% to 75% 76% to 99%	2	1,800 47,670	8, 300 725, 598	73, 221 1, 942, 174	19, 918 458, 441 532, 433	51% to 75% 76% to 99%	1 18	36, 797 602, 243 419, 969	48, 520	309, 676 16, 490, 548 11, 898, 388	124, 660 5, 011, 310 2, 228, 227
100% Not reported	14	42, 503	318, 757	2,045,089	532, 433	Not reoprted	84 3	32, 185	71, 131	713, 298	99, 572
Subcontractors.	14	9, 309	55, 545	866, 936	320, 970			74, 285	548, 607	3, 760, 926 97, 665	1, 011, 099 21, 824
1% to 25% 26% to 50%						1% to 25% 26% to 50%			00.000		12 019
Subcontractors None						Subcontractors None 1% to 25%	1 2 35	6, 209 45, 599 19, 591	23, 226 227, 256 294, 610	67, 784 687, 288 2, 757, 563	16, 213 194, 973 727, 135
100%. Not reported	13 1	4,659 4,650	19, 045 36, 500	796, 730 70, 206	283, 959 37, 011	Not reported	35	19, 591 2, 886	294, 010 3, 515	2, 787, 565	50, 954
					· · · · · · · · · · · · · · · · · · ·			inting and	decorating	cheat matel	work- and

Includes levee.
Includes waterworks; and foundation.
Includes waterworks; and foundation.
Includes flooring, n. e. s.
Includes steel creation.
Includes steel creation.
Includes bridge and culvert; sound proofing; and foundation.
Includes operative builders.
Includes sever, gas, water, conduit; dam and reservoir; waterworks; and foundation.

Includes concreting; electrical; painting and decorating; sheet-metal work; and highway.
Includes and reservoir; and central station, light and power plant.
Includes sound proofing; grading; and highway.
Includes sound proofing; grading; and highway.
Includes sower, gas, water, conduit; waterworks; dredging, river, harbor, etc.; central station, light and power plant.
Includes pipe covering; and plumbing and heating combined.
Includes excavating; grading; and foundation.

TABLE 7.-WAGE EARNERS, BY MONTHS, AND WAGES PAID DURING 1929

CLASSIFICATION OF ESTABLISHMENTS AND	Estab- lish- ments	NUM	BER EM	PLOYED	ON THE	15TH DA	Y OF THI	E MONTH	OR NEA	REST RE	PRESENT	ATIVE D.	A.Y	Wages paid
LENGTH OF WORKING WEEK	report- ing	Janu- ary	Feb- ruary	March	April	May	June	July	August	Sep- tember	Octo- ber	Novem- ber	Decem- ber	during year
MINNESOTA	ō03	7, 390	7, 944	9, 279	12, 935	17, 265	19, 553	21, 651	22, 389	21, 188	20, 140	16, 148	11, 918	\$23, 622, 838
Classification of establishments General contractors ' Building Commercial building only Residential building only Highway Bridge and culvert Grading Street paving Sever, gas, water, conduit Dam and reservoir Dredging, river, harbor, etc.' Railroad Other classes '	186 138 17 31 29 13 24 15 6 3 5 4 5	5, 035 2, 603 2, 406 91 193 437 483 32 38 81 37 1, 027 104	$5, 365 \\ 2, 596 \\ 2, 395 \\ 109 \\ 92 \\ 214 \\ 440 \\ 461 \\ 47 \\ 61 \\ 159 \\ 42 \\ 1, 241 \\ 104 \\ 10$	$\begin{array}{c} 6,534\\ 3,187\\ 2,817\\ 244\\ 126\\ 320\\ 403\\ 480\\ 58\\ 722\\ 147\\ 74\\ 1,558\\ 109 \end{array}$	9, 946 4, 579 4, 040 852 575 752 156 127 134 210 2, 202 269		$\begin{matrix} 16, 218 \\ 6, 314 \\ 5, 217 \\ 770 \\ 318 \\ 1, 884 \\ 903 \\ 1, 457 \\ 550 \\ 166 \\ 333 \\ 228 \\ 3, 776 \\ 547 \\ 547 \end{matrix}$	$\begin{array}{c} 18,070\\ 7,024\\ 5,858\\ 819\\ 347\\ 2,050\\ 1,148\\ 1,641\\ 826\\ 207\\ 346\\ 274\\ 3,896\\ 658\end{array}$	$\begin{bmatrix} 18, 588\\ 6, 926\\ 5, 683\\ 862\\ 381\\ 2, 158\\ 1, 466\\ 1, 626\\ 821\\ 451\\ 447\\ 273\\ 4, 102\\ 518\\ \end{bmatrix}$	$\begin{array}{c} 17,442\\ 6,420\\ 5,173\\ 879\\ 377\\ 1,752\\ 1,403\\ 1,516\\ 769\\ 225\\ 6600\\ 296\\ 3,809\\ 523\end{array}$	$16, 320 \\ 6, 119 \\ 5, 083 \\ 665 \\ 371 \\ 1, 479 \\ 1, 336 \\ 080 \\ 263 \\ 609 \\ 237 \\ 3, 754 \\ 274 \\ 274$	12,8004,7154,0374302488271,3339163092373412238,718181	9, 178 3, 368 2, 963 206 199 447 1, 044 1, 044 161 161 161 200 64 3, 110 121	$\begin{array}{c} 17, 966, 531\\ 7, 227, 935\\ 0, 212, 184\\ 410, 400\\ 1, 534, 300\\ 1, 534, 300\\ 1, 222, 315\\ 586, 223\\ 301, 776\\ 415, 163\\ 325, 508\\ 463, 163\\ 325, 508\\ 325, 308\\ 9, 036\\ 322, 302\\ 9, 006\\ \end{array}$
Subcontractors. Concreting Electrical. Heating and plumbing Heating and plumbing Plue covering Plumbing Plumbing Plumbing Painting and decorating 6 Plastering and decorating 6 Plastering and decorating 6 Plastering and decorating 6 Plastering and sheet-metal work. Roofing and sheet-metal work. Roofing and sheet-metal work. Roofing and sheet-metal combined Marbie and tiling Excavating Ornamental iron 6 Highway and grading. Metal work, n. e. S Other classes 7 Length of working week 8	$21 \\ 4 \\ 40 \\ 31 \\ 4 \\ 18 \\ 13 \\ 18 \\ 11 \\ 11 \\ 11 \\ 11 \\ 11$	$\begin{array}{c} 2,355\\ 7,77\\ 303\\ 797\\ 180\\ 40\\ 338\\ 230\\ 165\\ 105\\ 105\\ 105\\ 105\\ 105\\ 105\\ 105\\ 10$	$\begin{array}{c} 2,579\\ 73\\ 301\\ 781\\ 204\\ 28\\ 327\\ 222\\ 129\\ 189\\ 203\\ 344\\ 149\\ 74\\ 36\\ 179\\ 200\\ 83\\ 21\\ 23\\ 33\\ 33\\ 33\\ 33\\ 33\\ 33\\ 33\\ 33\\ 33$	$\begin{array}{c} 2,745\\ 107\\ 335\\ 793\\ 205\\ 33\\ 333\\ 222\\ 2280\\ 374\\ 159\\ 877\\ 433\\ 20\\ 197\\ 171\\ 75\\ 133\\ 30\\ 28\\ \end{array}$	$\begin{array}{c} 2, 989 \\ 1509 \\ 207 \\ 760 \\ 2055 \\ 311 \\ 320 \\ 204 \\ 200 \\ 306 \\ 325 \\ 201 \\ 125 \\ 42 \\ 34 \\ 248 \\ 248 \\ 248 \\ 248 \\ 34 \\ 34 \\ 26 \end{array}$	320 709	$\begin{smallmatrix} 3, 335\\ 180\\ 331\\ 854\\ 252\\ 52\\ 340\\ 210\\ 210\\ 210\\ 210\\ 210\\ 210\\ 380\\ 256\\ 255\\ 255\\ 387\\ 120\\ 387\\ 120\\ 30\\ 64\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 10$	$ \begin{array}{c} 3, 581 \\ 101 \\ 354 \\ 1, 003 \\ 322 \\ 58 \\ 300 \\ 244 \\ 109 \\ 373 \\ 297 \\ 165 \\ 766 \\ 205 \\ 390 \\ 147 \\ 123 \\ 32 \\ 32 \\ 58 \\ 58 \\ \end{array} $	$\begin{array}{c} 3, 801 \\ 159 \\ 349 \\ 349 \\ 1, 021 \\ 321 \\ 55 \\ 260 \\ 120 \\ 433 \\ 250 \\ 305 \\ 174 \\ 73 \\ 58 \\ 209 \\ 387 \\ 171 \\ 185 \\ 42 \\ 80 \\ \end{array}$	$\begin{array}{c} 3,740\\ 134\\ 351\\ 1,082\\ 340\\ 60\\ 283\\ 151\\ 347\\ 208\\ 276\\ 146\\ 766\\ 54\\ 222\\ 222\\ 397\\ 181\\ 205\\ 43\\ 59\end{array}$	$\begin{array}{c} 3,820\\ 113\\ 365\\ 305\\ 1,039\\ 373\\ 58\\ 403\\ 255\\ 178\\ 336\\ 178\\ 336\\ 163\\ 282\\ 163\\ 78\\ 301\\ 102\\ 234\\ 452\\ 57\\ 57\end{array}$	$\begin{array}{c} 3,348\\ 08\\ 360\\ 986\\ 308\\ 54\\ 233\\ 267\\ 237\\ 237\\ 237\\ 237\\ 207\\ 48\\ 216\\ 301\\ 188\\ 203\\ 40\\ 331\\ 40\\ 33\\ 40\\ 33\\ 33\\ 33\\ 33\\ 33\\ 33\\ 33\\ 33\\ 33\\ 3$	$\begin{array}{c} 2,740\\ 51\\ 304\\ 014\\ 316\\ 43\\ 840\\ 210\\ 208\\ 108\\ 108\\ 175\\ 213\\ 108\\ 108\\ 108\\ 104\\ 118\\ 108\\ 46\\ 104\\ 114\\ 112\\ 118\\ 36\\ 38\\ 38\\ 38\\ 38\\ \end{array}$	$\begin{smallmatrix} 5, 656, 307\\ 213, 206\\ 607, 012\\ 1, 638, 700\\ 407, 019\\ 57, 642\\ 662, 220\\ 422, 109\\ 423, 109\\ 100\\ 423, 109\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100\\$
General contractors 1	290 1 1 60 2 3 39 38 108 20 9 9 9	5,03584127566175933791,62829444079	5,365988378010166504261,74820642247	$\begin{array}{c} 6,534\\ 1,301\\ 3\\ 1,023\\ 20\\ 671\\ 547\\ 2,082\\ 294\\ 392\\ 103\\ \end{array}$	$\begin{array}{c} 9,946\\ 1,890\\ 6\\ 1,225\\ 40\\ 31\\ 834\\ 808\\ 4,038\\ 431\\ 398\\ 155\end{array}$	14, 138 2, 551 8 1, 471 45 47 1, 120 1, 352 6, 101 735 508 191	$10,218 \\ 2,730 \\ 7 \\ 1,570 \\ 64 \\ 1,387 \\ 1,597 \\ 7,181 \\ 807 \\ 534 \\ 221 \\$	$18,070 \\ 2,702 \\ 9 \\ 1,821 \\ 49 \\ 69 \\ 1,702 \\ 1,650 \\ 8,183 \\ 951 \\ 549 \\ 250 \\ \end{array}$	$18,588 \\ 3,155 \\ 12 \\ 1,858 \\ 73 \\ 75 \\ 2,087 \\ 1,741 \\ 7,824 \\ 937 \\ 582 \\ 244 \\ $	17, 442 2, 987 12 1, 908 90 1, 972 1, 611 7, 902 987 561 211	$\begin{array}{c} 16,320\\ 3,000\\ 14\\ 1,009\\ 112\\ 80\\ 1,920\\ 1,822\\ 5,842\\ 816\\ 506\\ 209 \end{array}$	$12,800 \\ 3,087 \\ 10 \\ 1,493 \\ 45 \\ 55 \\ 1,457 \\ 1,311 \\ 4,103 \\ 597 \\ 462 \\ 180 \\ 180 \\ 12,80 \\ 10,100 \\ 10,1$	0, 178 2, 674 8 1, 132 15 39 896 867 2, 575 386 423 163	$\begin{array}{c} 17, 966, 531\\ 3, 930, 944\\ 9, 000\\ 2, 120, 515\\ 95, 741\\ 56, 700\\ 1, 748, 877\\ 1, 700, 139\\ 6, 350, 853\\ 927, 307\\ 633, 553\\ 293, 902 \end{array}$
Subcontractors ¹ 40-hour, 5-day week 44-hour, 5-day week 48-hour, 6-day week 48-hour, 6-day week 54-hour, 6-day week 60-hour, 6-day week All other 6-day week All other not designated Not reported	$213 \\ 1 \\ 142 \\ 3 \\ 25 \\ 13 \\ 14 \\ 4 \\ 6 \\ 5$	$2,355 \\ 7 \\ 1,445 \\ 59 \\ 317 \\ 171 \\ 219 \\ 17 \\ 54 \\ 66$	$\begin{array}{c} 2,579\\ 12\\ 1,570\\ 70\\ 368\\ 172\\ 249\\ 13\\ 59\\ 66\end{array}$	$2,745 \\ 13 \\ 1,806 \\ 117 \\ 340 \\ 160 \\ 189 \\ 18 \\ 48 \\ 54$	$\begin{array}{c} 2,989\\ 16\\ 1,858\\ 135\\ 347\\ 214\\ 290\\ 23\\ 48\\ 52\\ \end{array}$	$\begin{array}{c} \textbf{3, 127} \\ \textbf{23} \\ \textbf{1, 982} \\ \textbf{97} \\ \textbf{358} \\ \textbf{241} \\ \textbf{315} \\ \textbf{23} \\ \textbf{46} \\ \textbf{42} \end{array}$	$\begin{array}{c} 3,335\\ 30\\ 1,959\\ 73\\ 386\\ 253\\ 405\\ 26\\ 75\\ 68\\ \end{array}$	3, 581 25 1, 994 28 434 321 570 34 86 80	3, 801 22 2, 158 23 405 309 650 27 76 71	$\begin{array}{c} 3,746\\ 17\\ 2,185\\ 30\\ 463\\ 192\\ 669\\ 36\\ 72\\ 82 \end{array}$	3, 820 15 2, 271 32 464 194 694 36 70 44	$\begin{array}{c} 3,348\\ 13\\ 1,958\\ 23\\ 530\\ 173\\ 532\\ 28\\ 41\\ 50\\ \end{array}$	2, 740 17 1, 013 18 481 108 339 28 33 48	$\begin{array}{c} 5, 656, 807\\ 34, 607\\ 3, 576, 202\\ 94, 023\\ 690, 820\\ 358, 370\\ 623, 906\\ 45, 796\\ 106, 450\\ 125, 633\\ \end{array}$
DULUTH	38	508	467	574	807	1, 144	1, 249	1, 378	1, 349	1, 317	897	660	472	1, 344, 579
General contractors Building Highway and grading Street paving Other classes ¹⁰	20 8 3 5 4	338 174 45 3 116	$317 \\ 126 \\ 45 \\ 3 \\ 143$	381 119 55 7 200	573 175 74 71 253	886 140 140 106 500	974 129 171 198 476	1, 152 96 236 193 627	1, 111 146 240 160 565	$1,104 \\ 125 \\ 230 \\ 170 \\ 579$	877 157 148 125 247	458 126 60 64 208	302 118 34 2 148	956, 951 212, 589 208, 156 102, 301 433, 905
Subcontractors Heating and plumbing Painting, decorating, and glazing Marble, tiling, and plastering Other classes 1 Length of working week 9	18 6 4 4 4	$170 \\ 67 \\ 27 \\ 23 \\ 53 \\ 53 \\ 53 \\ 51 \\ 51 \\ 53 \\ 51 \\ 51$	$150 \\ 59 \\ 25 \\ 23 \\ 43$	193 57 31 22 83	234 56 45 31 102	258 50 54 38 110	275 71 61 36 107	226 78 48 46 54	238 76 42 51 69	213 84 34 49 46	220 81 33 49 57	202 78 28 58 38	170 71 26 53 20	387, 628 99, 153 73, 288 66, 537 148, 650
General contractors 44-hour, 554-day week 48-hour, 6-day week 54-hour, 6-day week 60-hour, 6-day week All other 6-day week All other not designated	20 4 4 3 2 3	338 26 62 67 107 76	317 19 89 31 110 68	381 22 100 6 188 65	573 15 125 30 324 27 52	886 16 126 50 535 31 128	$974 \\ 18 \\ 180 \\ 59 \\ 499 \\ 63 \\ 155 \\ $	1, 152 34 245 50 578 105 140	$1, 111 \\ 57 \\ 203 \\ 92 \\ 450 \\ 97 \\ 152$	$1, 104 \\ 54 \\ 269 \\ 79 \\ 455 \\ 112 \\ 135$	677 80 139 60 175 59 158	458 51 164 64 104 20 55	302 51 56 48 104 43	956, 951 56, 120 257, 337 66, 342 364, 524 65, 500 147, 128
Subcontractors	18 1 14 1 1 1 1	$170 \\ 7 \\ 129 \\ 5 \\ 14 \\ 15$	$150 \\ 12 \\ 111 \\ 5 \\ 13 \\ 9$	193 13 155 5 9 11	234 16 190 5 6 11	258 23 208 5 7 15	275 30 219 5 0 15	226 25 171 4 10 16	238 22 173 4 7 82	$213 \\ 17 \\ 158 \\ 4 \\ 4 \\ 30$	220 15 154 8 7 36	202 13 158 6 9 16	170 17 135 4 13 1	387, 628 34, 507 288, 889 10, 000 17, 221 37, 011
MINNEAPOLIS General contractors 1	186	3, 360	3, 757	4, 194	5, 590	6,867	7, 545	8,479	8, 549	8, 283	8, 076	8, 085	4, 566	9, 500, 607
General contractors 1 Building Building not specialized 1 Commercial building only Residential building only	87 63 41 10 12	1,966 1,085 949 90 46	2, 159 1, 147 1, 026 84 37	2,489 1,515 1,250 213 52	8,859 2,302 1,926 295 81	5, 071 2, 885 2, 366 401 118	5, 685 3, 127 2, 424 561 142	6, 445 3, 393 2, 635 604 154	6, 398 3, 340 2, 485 685 170	6, 094 3, 063 2, 128 767 168	5, 790 2, 886 2, 141 594 151	4,016 2,101 1,000 385 116	2,820 1,534 1,249 175 110	5, 993, 533 3, 437, 276 2, 760, 842 502, 126 174, 308

See footnotes at end of table.

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TABLE 7 .- WAGE EARNERS, BY MONTHS, AND WAGES PAID DURING 1929-Continued

	Estab- lish-	אטא	IBER EM	PLOYED	ON THE	15TH DAY	OF THE	E MONTH	OR NEA	REST RE	PRESENT	TATIVE D	AY	Wages paid
CLASSIFICATION OF ESTABLISHMENTS AND LENGTH OF WORKING WEEK	ments report- ing	Janu- ary	Feb- ruary	March	April	May	June	July	August	Sep- tember	Octo- ber	Novem- ber	Decem- ber	during year
MINNEAPOLIS—Continued General contractors—Continued. Highway Bridge, culvert, and railroad Grading Dredging, river, harbor, etc. ² Other classes ¹²	3	36 377 362 37 69	56 443 351 42 120	80 389 330 74 101	314 607 355 186 95	375 881 511 207 212	450 1,022 526 204 356	607 1, 282 574 220 369	734 1, 101 572 221 430	618 1, 038 535 244 596	559 1, 049 519 183 594	265 820 378 135 317	128 575 354 64 165	\$619, 197 703, 861 534, 224 269, 832 429, 143
Subcontractors Concreting Electrical Heating and plumbing Heating and plumbing ¹³ Plumbing and heating combined Masonry Painting and decorating ⁵ Plastoring and lathing Roofing and sheet-metal work Marble and tiling Excavating and grading Ornamental iron ⁶ Metal work, n. e. S Length of working week ⁹	5 12 40 21 11 4 7 9 6 5 4 4	$\begin{array}{c} \textbf{1, 394} \\ \textbf{13} \\ \textbf{181} \\ \textbf{407} \\ \textbf{134} \\ \textbf{191} \\ \textbf{82} \\ \textbf{157} \\ \textbf{111} \\ \textbf{140} \\ \textbf{49} \\ \textbf{134} \\ \textbf{76} \\ \textbf{89} \\ \textbf{37} \end{array}$	1, 598 24 187 407 138 189 80 189 109 294 61 136 85 83 23	$\begin{array}{c} \mathbf{1,705}\\ 29\\ 206\\ 428\\ 147\\ 195\\ 86\\ 183\\ 116\\ 324\\ 68\\ 150\\ 96\\ 75\\ 30 \end{array}$	1, 781 37 179 387 180 70 263 263 263 263 263 263 263 263 263 263	1, 796 48 189 410 131 196 100 161 201 224 100 201 118 111 33	$\begin{array}{c} 1,860\\ 62\\ 179\\ 447\\ 172\\ 200\\ 75\\ 142\\ 191\\ 212\\ 113\\ 196\\ 168\\ 120\\ 30\\ \end{array}$	2,034 60 186 523 208 222 93 100 203 179 125 220 241 147 32	2, 151 64 194 517 200 97 120 224 190 124 213 292 171 42	2, 189 76 203 549 223 225 101 151 151 170 229 112 151 324 181 324 181	$\begin{array}{c} 2,286\\ 60\\ 216\\ 506\\ 258\\ 221\\ 87\\ 147\\ 147\\ 147\\ 149\\ 160\\ 355\\ 192\\ 52\\ \end{array}$	$\begin{array}{c} \textbf{2,049}\\ \textbf{37}\\ \textbf{516}\\ \textbf{221}\\ \textbf{211}\\ \textbf{244}\\ \textbf{233}\\ \textbf{117}\\ \textbf{185}\\ \textbf{104}\\ \textbf{148}\\ \textbf{323}\\ \textbf{133}\\ \textbf{133}\\ \textbf{40} \end{array}$	$\begin{array}{c} 1,740\\ 14\\ 189\\ 499\\ 237\\ 195\\ 67\\ 208\\ 95\\ 143\\ 77\\ 127\\ 246\\ 112\\ 36\\ \end{array}$	$\begin{array}{c} \textbf{3, 507, 074} \\ \textbf{81, 301} \\ \textbf{370, 107} \\ \textbf{911, 890} \\ \textbf{355, 129} \\ \textbf{355, 129} \\ \textbf{355, 284} \\ \textbf{158, 477} \\ \textbf{221, 866} \\ \textbf{221, 048} \\ \textbf{450, 411} \\ \textbf{144, 217} \\ \textbf{320, 619} \\ \textbf{290, 288} \\ \textbf{333, 332} \\ \textbf{333, 332} \\ \textbf{67, 905} \end{array}$
General contractors 1	$ \begin{array}{c} 37 \\ 2 \\ 6 \\ 0 \\ 24 \\ 5 \\ 2 \end{array} $	$1,966 \\ 587 \\ 1 \\ 2 \\ 146 \\ 214 \\ 528 \\ 89 \\ 357 \\ 42$	2,159 609 2 1 178 249 669 95 346 12	2,489 770 19 5 183 352 697 111 320 32	3,859 943 12 11 253 534 1,556 188 311 51	5, 071 1, 153 	5, 685 1, 238 5 29 325 969 2, 439 300 318 62	6, 445 1, 389 28 34 286 918 3, 083 291 346 70	$\begin{array}{c} 6, 398 \\ 1, 444 \\ 63 \\ 40 \\ 268 \\ 903 \\ 2, 966 \\ 293 \\ 365 \\ 56 \end{array}$	6, 094 1, 465 67 64 283 787 2, 637 393 367 31	5, 790 1, 470 72 50 228 902 2, 352 311 374 31	4,016 1,098 23 35 210 507 1,512 267 346 18	2, 820 871 24 149 302 918 194 350 12	$\begin{array}{c} 5, 993, 533\\ 1, 599, 290\\ 22,000\\ 25,000\\ 386, 920\\ 999, 161\\ 2, 074, 182\\ 375, 484\\ 421, 546\\ 80,000\\ \end{array}$
Subcontractors. 44-hour, 5½-day week. All other 5½-day week. 48-hour, 6-day week. 64-hour, 6-day week. All other 6-day week. All other not designated. Not reported.	99 74 7 6 3 8 4 1	1, 394 943 44 130 132 43 16 44 42 2, 332	$1,598 \\ 1,078 \\ 53 \\ 166 \\ 136 \\ 57 \\ 12 \\ 50 \\ 46 \\ 2,504$	1,705 1,194 96 147 129 58 16 37 28 3,051	1, 731 1, 170 112 150 165 45 21 40 28 4, 281	1, 796 1, 256 68 160 180 61 19 38 14 5, 843	1,860 1,228 47 175 179 116 21 66 28 6,743	2, 034 1, 303 161 241 189 28 77 35 7, 502	2, 151 1, 407 175 216 241 20 67 25 8, 244	2, 189 1, 440 217 129 283 33 62 25 7, 683	2,286 1,506 233 136 316 32 57 6 7,628	2,049 1,274 300 119 281 24 31 20 6,825	1, 746 1, 080 268 111 211 26 25 25 5, 333	8, 507, 074 2, 473, 458 52, 986 279, 142 274, 841 239, 402 40, 250 92, 650 54, 345 9, 016, 773
ST. PAUL. General contractors 1 Building not specialized 1 Residential building only Highway. Bridge and oulvert Grading Street paving Sewer, gas, water, conduit Railroad Other classes 14		$\begin{array}{r} 2,32\\ \hline 1,820\\ 758\\ 747\\ 11\\ 57\\ 43\\ 48\\ 12\\ 7\\ 803\\ 2\end{array}$	2, 304 1, 984 715 700 15 44 48 33 17 35 1, 040 2	$\begin{array}{r} 2,69\\ 751\\ 735\\ 16\\ 98\\ 38\\ 75\\ 25\\ 52\\ 1,413\\ 17\\ \end{array}$	3,584 901 876 25 308 134 140 44 64 1,942 51	5, 103 5, 103 1, 082 1, 047 35 406 290 293 127 94 2, 725 86	5, 975 1, 229 1, 186 43 607 430 256 205 101 3, 060 87	6,649 1,545 1,494 51 613 420 364 376 147 3,097 87	7, 335 1, 512 1, 457 55 643 700 345 406 181 3, 481 67	$\begin{array}{c} 1, 323 \\ 6, 790 \\ 1, 459 \\ 1, 411 \\ 48 \\ 475 \\ 675 \\ 266 \\ 384 \\ 155 \\ 3, 309 \\ 67 \end{array}$	6, 751 1, 455 1, 409 46 420 856 189 408 192 3, 143 88	$\begin{array}{c} 3,323\\ 6,090\\ 1,178\\ 1,154\\ 24\\ 304\\ 825\\ 139\\ 153\\ 187\\ 3,201\\ 103\\ \end{array}$	4,816 867 848 19 177 659 130 71 140 2,753 19	7, 800, 297 1, 626, 040 1, 576, 456 49, 584 424, 406 528, 971 235, 617 244, 508 245, 516 4, 445, 734 49, 505
Subcontractors Electrical Heating and plumbing Plumbing Plumbing and heating combined Plumbing and heating combined Plastering, marble, and tiling Roofing and sheet metal work Roofing Roofing Roofing Roofing and sheet metal combined Other classes ¹⁵		512 65 154 58 42 54 56 50 66 15 51 121	$\begin{array}{c} 570\\ 61\\ 149\\ 61\\ 43\\ 45\\ 56\\ 70\\ 79\\ 16\\ 63\\ 155\\ \end{array}$	582 76 149 60 44 45 116 75 80 21 59 86	$\begin{array}{c} 697\\ 67\\ 159\\ 63\\ 47\\ 49\\ 127\\ 87\\ 92\\ 30\\ 62\\ 165\\ \end{array}$	740 79 176 77 49 50 125 70 116 30 77 165	$\begin{array}{c} 768\\ 84\\ 176\\ 72\\ 55\\ 49\\ 109\\ 67\\ 139\\ 41\\ 98\\ 193\\ \end{array}$	$\begin{array}{c} 853\\ 101\\ 213\\ 109\\ 55\\ 49\\ 101\\ 83\\ 139\\ 37\\ 102\\ 216\\ \end{array}$	$\begin{array}{c} 909\\ 94\\ 209\\ 102\\ 56\\ 51\\ 146\\ 95\\ 146\\ 46\\ 100\\ 219\\ \end{array}$	893 89 228 99 66 63 124 91 139 38 101 222	877 94 221 101 71 49 142 79 134 38 96 207	44 108 62 129 39 90	517 60 172 74 46 63 46 109 31 78 67	1, 216, 476 132, 857 380, 339 131, 845 94, 105 104, 380 147, 809 175, 831 165, 300 52, 021 113, 279 264, 340
Length of working week ⁹ General contractors ¹		$1,820\\841\\118\\15\\364\\46\\234\\173\\29$	1, 934 988 134 15 370 78 186 140 23	2,469 1,361 183 15 346 125 231 150 58	$\begin{array}{c} 3,584\\ 1,890\\ 220\\ 20\\ 364\\ 226\\ 610\\ 159\\ 24\\ 71\end{array}$	$5,103 \\ 2,551 \\ 242 \\ 30 \\ 523 \\ 323 \\ 1,033 \\ 275 \\ 42 \\ 84$	5,9752,730356973501,40136844111	6, 649 2, 762 318 35 1, 044 475 1, 452 387 43 133	7,3353,155288351,3585221,42737442134	2, 987 317 35 1, 287 515 1, 173 309 42	1, 429 650 896 273 42	3, 087 296 20 1, 044 555 716 194 42	4, 816 2, 674 177 15 069 399 583 150 18 131	7, 800, 297 3, 930, 944 403, 228 31, 700 903, 838 619, 289 1, 389, 708 368, 852 39, 348 163, 300
Subcontractors. 44-hour, 5½-day week All other 5½-day week 48-hour, 6-day week 60-hour, 6-day week All other not designated Not reported	56 41 1 4 4	512 306 10 41 121 10 24	570 321 12 53 155 9 20	582 394 16 49 86 11 26	24	740 451 24 64 165 8 28	768 441 21 64 193 9 40	9 45	122 219 9 46	498 26 80 222 10 57	24 75 207 13 38	450 17 77 151 10 30	23	1, 216, 476 608, 388 31, 637 137, 023 264, 340 13, 800 71, 288 ctors" for the

¹ Includes operative builders.
² Includes levee.
³ Includes sevents; foundation; and central station, light and power plants.
⁴ Includes matrix temperature control.
⁵ Includes steel erection.
⁶ Includes steel erection.
⁷ Includes steel erection.
⁸ In addition to the caption under "General contractors" shown in this section, the following classifications are included in the complete breakdown: 50-hour, 5-day week; All other, 5-day week; 55-hour, 5½-day week;

See complete classifications in the tabulation for "General Contractors" for the State above.
Includes dam and reservoir; waterworks; dredging, river, harbor, etc.; and foundation.
Includes concreting; electrical; sheet-metal work; and highway.
Includes street paving; and dam and reservoir.
Includes street paving; and dam and reservoir.
Includes waterworks; dredging, river, harbor, etc.; and central station, light and power plant.
Includes excavating; grading; and foundation.

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TABLE 8.-EXPENDITURES OF REPORTING ESTABLISHMENTS: 1929

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and a second	-01		PRINCIPAL	ITEMS OF EX	PENDITURE	21 - 44 1 		1		XPENDITI	JRE	0	<u></u>
CLASSIFICATION OF ESTABLISHMENTS	Establishments	Value of con- struction business reported	Subcon- tract work let	Wages paid	Cost of materials	Sa Proprie- tors and firm members	Em- ployees	Rer Equip- ment	Offices, etc.	Interest	Con- tract bond premi- ums	Compen- sation and liability insur- ance premi- ums	All other overhead expenses
MINNESOTA	463	\$73, 071, 963	\$12, 104, 000	\$18, 178, 495	\$25, 092, 874	\$408, 635	\$3, 839, 986	\$332, 540	\$295, 340	\$292, 931	\$415, 139	\$714, 226	\$5, 977, 007
Operative builders	5	325, 900	170, 000	31, 414	99, 391	8, 169		300	867	4, 354		878	10, 364
General contractors Building Commercial building only Residential building only Highway Bridge and culvert Grading Street paving Street paving Dredging, river, harbor, etc.1 Railroad Central station, light and power plant Other classes 3	253 162 118 17 27 26 11 22 12 5 4 3 3	53, 113, 008 20, 588, 057 24, 405, 817 3, 163, 000 2, 019, 231 7, 748, 718 0, 335, 999 2, 852, 502 1, 706, 610 860, 847 940, 831 2, 201, 285 734, 426	11, 344, 000 8, 630, 000 6, 581, 000 1, 456, 000 593, 000 1, 621, 000 124, 000 135, 000 46, 000 48, 000 431, 000	$\begin{array}{c} 12, 778, 986\\ 6, 635, 651\\ 5, 652, 300\\ 507, 054\\ 376, 288\\ 1, 416, 450\\ 929, 592\\ 1, 000, 390\\ 420, 138\\ 301, 820\\ 304, 508\\ 752, 289\\ 281, 805\\ 737, 334\\ \end{array}$	16, 311, 420 9, 826, 744 8, 245, 139 800, 350 781, 255 1, 990, 282 1, 278, 436 26, 253 612, 232 330, 069 	180, 550 130, 455 110, 091 13, 564 6, 800 17, 814 	$\begin{array}{c} 2,797,450\\ 1,203,689\\ 1,105,510\\ 39,480\\ 295,244\\ 253,613\\ 168,477\\ 90,814\\ 57,244\\ 133,027\\ 255,797\\ 53,445\\ 195,200\\ \end{array}$	194, 924 23, 349 18, 052 3, 302 27, 883 4, 396 101, 297 22, 019 	$151, 042 \\74, 630 \\59, 804 \\11, 079 \\8, 747 \\15, 314 \\8, 766 \\20, 115 \\2, 347 \\2, 064 \\3, 852 \\6, 634 \\2, 977 \\1, 97$	220, 082 79, 768 65, 907 3, 623 10, 238 49, 408 8, 535 36, 529 16, 836 3, 931 7, 652 2, 100 6, 815	379, 372 122, 384 116, 008 6, 138 178 69, 637 13, 903 22, 567 16, 077 16, 803 13, 421 63, 288 1, 400 39, 892	548, 277 228, 651 195, 008 21, 906 11, 677 51, 671 54, 988 41, 031 15, 621 33, 508 10, 769 40, 006 1, 610	4, 218, 515 6,89, 803 871, 541 89, 532 28, 730 1, 512, 596 122, 990 954, 669 295, 518 62, 198 320, 922 75, 974 44, 673
Other classes *	5 205	3, 374, 769	235, 000 590, 000	•	1,400,414	12, 633		10, 150	14, 343	8, 508		70, 332	139, 172
Electrical Heating and plumbing Heating and plumbing Pipe covering Plumbing Plumbing and heating com-	$203 \\ 7 \\ 23 \\ 97 \\ 19 \\ 4 \\ 40$	$19, 632, 965 \\ 483, 747 \\ 2, 132, 319 \\ 7, 617, 511 \\ 2, 403, 853 \\ 184, 985 \\ 2, 774, 649$	56,000 57,000 213,000 107,000 56,000	$5,368,095 \\201,600 \\557,072 \\1,695,537 \\476,920 \\57,542 \\659,116$	8, 081, 563 138, 940 1, 052, 607 4, 029, 995 1, 274, 138 80, 275 1, 547, 552	219, 916 4, 000 36, 153 117, 416 20, 642 55, 858	1, 042, 536 31, 724 148, 079 463, 637 172, 509 24, 351 137, 792	137, 316 350 2, 435 2, 093	143, 431 1, 830 23, 521 58, 205 11, 189 2, 270 25, 989	68, 405 1, 421 6, 200 23, 390 5, 054 552 10, 488	35, 767 925 3, 937 17, 570 7, 794 2, 496	165,071 4,473 18,461 39,031 10,168 1,124 14,207	1, 748, 128 19, 291 161, 060 447, 314 131, 139 19, 299 162, 761
Subcontractors	$ \begin{array}{r} 34 \\ 3 \\ 18 \\ 12 \\ 17 \\ 10 \\ 7 \\ 10 \\ 6 \\ 3 \\ 6 \\ \end{array} $	$\begin{array}{c} 2,254,024\\ 289,098\\ 1,078,172\\ 1,073,360\\ 1,262,064\\ 716,328\\ 545,730\\ 1,442,421\\ 1,288,379\\ 2,030,839\\ 463,716\\ 420,449\\ \end{array}$	50,000 1,000 46,000 2,000 1,000 152,000 152,000 98,000 	501, 950 168, 880 528, 232 534, 556 342, 786 107, 350 475, 842 361, 802 319, 750 67, 995 113, 953	$\begin{array}{c} 1, 128, 030\\ 43, 000\\ 234, 988\\ 270, 282\\ 665, 600\\ 327, 208\\ 238, 452\\ 598, 656\\ 62, 007\\ 1, 289, 084\\ 217, 443\\ 169, 901\\ \end{array}$	40, 916 33, 652 4, 038 7, 236 1, 200 6, 036 1, 894 10, 000 	128, 985 31, 680 51, 380 32, 948 86, 047 61, 915 24, 132 94, 438 37, 355 32, 980 13, 311 18, 057	342 1,000 310 50,042 60,967 2,199 11,013	18,757 490 8,584 2,719 17,158 14,938 2,220 10,218 11,825 1,320 1,393 6,168	7, 296 364 2, 906 6, 043 3, 790 1, 887 1, 903 5, 934 10, 142 1, 432 2, 915 3, 949	7, 286 500 896 1, 644 852 792 600 9, 614 	$\begin{array}{c} 13,532\\ 5,275\\ 11,072\\ 0,212\\ 15,708\\ 8,359\\ 7,349\\ 5,738\\ 25,359\\ 23,346\\ 1,405\\ 5,001\\ \end{array}$	134, 115 9, 748 64, 351 48, 399 123, 005 63, 191 59, 814 89, 911 007, 899 69, 668 51, 521 55, 961
DULUTH	36	4, 518, 058	549, 000	1, 223, 738	1, 508, 378	17, 032	298, 365	17, 772	31, 908	27, 237	22, 610	54, 661	319, 675
General contractors Building Highway and grading Street paving Other classes 7	18 8 3 4 3	$\begin{array}{r} 3,451,924\\ 1,042,800\\ 642,512\\ 172,256\\ 1,594,350 \end{array}$	486,000 259,000 68,000 8,000 121,000	830, 110 212, 589 208, 156 51, 589 303, 770	1, 146, 916 330, 958 202, 474 79, 319 534, 105	10, 032 7, 200 2, 832	190, 704 30, 272 27, 180 1, 252 132, 000	17, 772 250 2, 932 4, 690 9, 900	19,005 5,412 555 150 12,888	20, 157 4, 465 3, 972 722 10, 998	21, 684 8, 784 2, 100 1, 709 9, 091	47, 725 5, 580 2, 087 2, 008 38, 050	242, 195 17, 079 52, 712 6, 272 166, 132
Subcontractors Heating and plumbing Painting, decorating, and glazing Marble, tiling, and plastering Other classes ⁸		$1,064,134\\406,899\\180,455\\211,208\\265,482$	63, 000 20, 000 6, 000 37, 000	387, 628 99, 153 73, 288 66, 537 148, 650	361, 462 192, 074 42, 470 74, 620 52, 292	7,000 4,000 3,000	107, 661 41, 405 7, 447 30, 538 28, 271		12, 901 5, 750 2, 724 3, 598 829	7, 080 1, 044 426 2, 676 2, 934	926 364 	6, 936 2, 014 1, 830 756 2, 336	77, 480 26, 513 12, 132 23, 502 15, 333
MINNEAPOLIS		37, 681, 770	7, 434, 000	9, 200, 049	12, 457, 786	218, 884	1, 969, 626	161, 339	151, 000	145, 023	208, 024	346, 515	2, 460, 421
Operative builders	8	142, 500	94, 000	9, 434	30, 971	8, 169			267	3, 954		383	3, 857
General contractors Building not specialized Commercial building only Residential building only Highway and street paving Bridge, culvert, and railroad Grading Dredging, river, harbor, etc. 1 Other classes 9	61 38 11 12 12 5 3 3	$\begin{array}{c} 25,882,103\\ 15,840,370\\ 12,084,017\\ 2,748,840\\ 1,013,513\\ 4,198,645\\ 1,720,172\\ 1,145,666\\ 750,242\\ 2,221,008 \end{array}$	$\begin{array}{c} 7, 147, 000\\ 5, 744, 000\\ 4, 035, 000\\ 1, 377, 000\\ 332, 000\\ 1, 132, 000\\ 36, 000\\ 73, 000\\ 48, 000\\ 114, 000\\ \end{array}$	$\begin{array}{c} 5, 933, 382\\ 3, 182, 888\\ 2, 597, 031\\ 418, 014\\ 167, 843\\ 718, 078\\ 634, 444\\ 507, 606\\ 269, 832\\ 620, 534\end{array}$	$\begin{array}{c} 6, 992, 036\\ 4, 420, 889\\ 3, 460, 091\\ 000, 687\\ 365, 511\\ 1, 034, 978\\ 629, 667\\ 4, 253\\ \end{array}$	98, 674 71, 641 51, 277 13, 564 6, 800 14, 400 	$\begin{array}{c} 1, 373, 267\\ 714, 132\\ 547, 683\\ 140, 469\\ 10, 980\\ 106, 429\\ 156, 355\\ 93, 324\\ 83, 527\\ 129, 500 \end{array}$	50, 498 17, 197 13, 117 2, 300 1, 780 17, 367 5, 255 10, 439 250	79, 939 50, 114 36, 784 10, 839 2, 491 10, 308 3, 810 9, 394 1, 752 4, 555	$\begin{array}{c} 108, 867\\ 42, 302\\ 34, 637\\ 2, 620\\ 5, 045\\ 33, 629\\ 3, 868\\ 17, 906\\ 2, 938\\ 8, 224 \end{array}$	$\begin{array}{c} 195,689\\ 45,160\\ 38,929\\ 6,138\\ 93\\ 36,478\\ 65,971\\ 6,358\\ 13,421\\ 28,301 \end{array}$	246, 670 110, 413 87, 113 17, 955 5, 345 30, 643 37, 397 26, 175 7, 212 34, 839	$\begin{array}{c} 1, \ 608, \ 859\\ 378, \ 305\\ 277, \ 561\\ 85, \ 463\\ 15, \ 281\\ 551, \ 948\\ 86, \ 938\\ 294, \ 206\\ 210, \ 837\\ 86, \ 625\\ \end{array}$
Subcontractors. Concreting Electrical Heating and plumbing Heating and plumbing Plumbing Plumbing and heating com- bined Masoury	92 4 10 40 8 20	$\begin{array}{c} 11,657,167\\203,045\\1,194,890\\3,843,986\\1,338,198\\1,640,420 \end{array}$	193, 000 17, 000 37, 000 13, 000 18, 000	3, 257, 233 69, 635 335, 365 962, 515 358, 129 379, 656	5, 434, 779 82, 143 586, 181 2, 061, 709 714, 085 967, 815	112, 041 18, 473 60, 284 5, 482 33, 632	596, 359 11, 320 84, 506 229, 751 111, 374 65, 579	110, 841 160	70, 794 1, 200 9, 991 26, 680 6, 614 13, 309	32, 202 581 3, 342 9, 134 2, 677 4, 937	12, 335 230 1, 153 7, 892 5, 462 902	99, 453 1, 629 8, 956 22, 897 7, 708 8, 406	847, 705 10, 050 70, 913 227, 546 92, 074 96, 345
bined Masoury Painting and decorating 4 Plastering and lathing Roofing and sheet-metal work. Marble and tiling Ornamental iron 4 Metal work, n. 6. 8. Other classes 4.	12 38855 5383	$\begin{array}{c} 865,308\\ 289,988\\ 652,785\\ 871,602\\ 490,106\\ 1,059,457\\ 2,080,839\\ 463,716\\ 506,753\\ \end{array}$	6, 000 	$\begin{array}{c} 224,730\\ 168,880\\ 312,648\\ 441,411\\ 130,115\\ 326,619\\ 319,750\\ 67,995\\ 122,300 \end{array}$	$\begin{array}{c} 379,809\\ 43,000\\ 143,084\\ 221,032\\ 227,283\\ 456,175\\ 1,289,084\\ 217,443\\ 107,645\\ \end{array}$	21, 170 27, 352 4, 038 1, 894	52, 798 31, 680 39, 674 32, 268 47, 839 53, 700 32, 980 13, 311 19, 330	160 1,000 310 50,000 2,199 57,172	6, 757 490 5, 940 2, 184 10, 416 4, 755 1, 320 1, 393 6, 425	$1, 520 \\ 364 \\ 1, 593 \\ 3, 623 \\ 111 \\ 4, 005 \\ 1, 432 \\ 2, 915 \\ 5, 102 \\ $	1, 528 480 548 792 100 1, 142	6, 783 5, 275 7, 043 7, 467 6, 683 3, 816 23, 346 1, 495 10, 846	38, 527 9, 748 36, 526 40, 310 50, 847 58, 546 60, 668 51, 521 213, 030
ST. PAUL	111	17, 604, 954	2, 621, 000	4, 201, 564	6, 011, 858	72, 517	1, 027, 463	105, 358	81, 140	66, 034	99, 921	192, 602	1, 979, 926
General contractors ¹² Building Residential building only Highway Bridge, culvert, and railroad Street paying Sewer, gas, water, conduit Other classes ¹³	56 37 32 5 3 4 3 4 5	$\begin{matrix} 13, 025, 589\\ 6, 358, 789\\ 6, 085, 076\\ 273, 713\\ 1, 617, 711\\ 2, 813, 378\\ 691, 953\\ 664, 752\\ 879, 006 \end{matrix}$	2, 366, 000 1, 681, 000 1, 521, 000 100, 000 225, 000 431, 000 9, 000	$\begin{matrix} 3, 107, 844\\ 1, 401, 103\\ 1, 363, 806\\ 37, 387\\ 269, 088\\ 810, 790\\ 134, 535\\ 264, 316\\ 227, 922 \end{matrix}$	4, 188, 021 2, 301, 885 2, 233, 390 68, 495 121, 956 964, 278 273, 792 247, 830 278, 280	34, 784 29, 968 29, 968 4, 816	$\begin{array}{c} 773, 194\\ 292, 796\\ 290, 076\\ 2, 720\\ 40, 855\\ 292, 035\\ 49, 175\\ 43, 368\\ 54, 965\\ \end{array}$	80, 415 4, 887 4, 887 4, 410 3, 130 2, 245 65, 743	41, 859 13, 895 13, 475 420 3, 892 10, 452 442 1, 650 11, 528	46, 289 19, 090 17, 555 1, 535 8, 650 4, 300 2, 211 3, 458 8, 580	84, 987 34, 348 34, 348 17, 305 3, 488 7, 328 15, 042 7, 476	$151, 122 \\ 61, 777 \\ 60, 395 \\ 1, 382 \\ 5, 521 \\ 41, 746 \\ 4, 588 \\ 29, 289 \\ 8, 201 \\ \end{array}$	1, 378, 211 169, 866 167, 999 1, 867 685, 910 102, 729 191, 338 44, 660 183, 708

TABLE 8.-EXPENDITURES OF REPORTING ESTABLISHMENTS: 1929-Continued

	-e-	e di Sterio Stati	PRINCIPAL I	TEMS OF EX	PENDITURE		· · · · · ·	OTHER	ITEMS OF	FEXPEND	ITURE		
	ments rting	Value of con-				Sal	aries	Ren	t for		Con-	Compen- sation	
CLASSIFICATION OF ESTABLISHMENTS	Establishm port	struction business reported	Subcon- tract work let	Wages paid	Cost of materials	Proprie- tors and firm members	Em- ployees	Equip- ment	Offices, etc.	Interest	tract bond premi- ums	and liability insur- ance premi- ums	All other overhead expenses
ST. PAUL-Continued												1 a 2	
Subcontractors Electrical Heating and plumbing Hoating and pipo covering Plumbing_and heating com-	$55 \\ 5 \\ 28 \\ 9 \\ 12$	\$4, 579, 365 604, 332 1, 945, 958 935, 295 539, 727	\$255, 000 101, 000 49, 000 20, 000	\$1, 153, 720 132, 857 356, 551 125, 045 127, 117	\$1, 823, 837 313, 386 1, 039, 602 517, 527 293, 626	\$37, 733 3, 000 15, 906 5, 160 840	\$254, 269 46, 496 135, 071 64, 824 24, 458	\$24, 943 2, 093 2, 093	\$39, 281 5, 513 14, 399 4, 421 7, 100	\$19, 745 1, 683 7, 182 1, 708 3, 034	\$14, 934 2, 011 3, 584 541 1, 120	\$41, 480 6, 565 6, 869 2, 517 2, 256	\$601, 715 50, 393 76, 594 25, 205 30, 115
Planting and decorating Plastering, marble, and tiling Roofing and sheet-motal work Roofing and sheet metal com-	7 5 5 8 4	470, 936 140, 283 373, 424 554, 573 195, 046	32,000 1,000 2,000	104, 389 68, 502 175, 831 155, 639 52, Q21	228, 449 26, 270 126, 105 244, 967 78, 625	9, 906 3, 300	45, 789 7, 666 10, 880 27, 666 15, 496	42	2,878 1,780 2,400 6,382 4,162	2, 440 418 1, 673 2, 675 1, 327	1, 923 20 850 558 160	2, 096 1, 814 2, 911 7, 038 1, 792	21, 274 4, 928 15, 952 52, 039 12, 839
Other classes ¹⁴	4	359, 527 960, 795	151, 000	103, 618 264, 340	166, 342 73, 507	15, 527	12, 170 26, 490	22, 808	2, 220 8, 807	1, 348 6, 114	398 7, 911	5, 246 16, 283	39, 200 401, 809

Includes levee.
 Includes dam and reservoir; waterworks; and foundation.
 Includes duatomatic temperature control.
 Includes flooring, n. e. s.
 Includes flooring; n.e. s.
 Includes statel erection.
 Includes glass and glazing; highway; bridge and culvert; grading; soundproofing; and foundation.
 Includes waterworks; dredging, river, harbor, etc.; and foundation.

⁸ Includes concreting; electrical; sheet-metal work; and highway.
⁹ Includes dam and reservoir; and central station, light and power plant.
¹⁰ Includes phe covering; and automatic temperature control.
¹¹ Includes excavating; and soundproofing.
¹² Includes grading; waterworks; and central station, light, and power plant.
¹⁴ Includes grading; waterworks; and central station, light, and power plant.
¹⁵ Includes grading; grading; and foundation.

TABLE 9.—COST OF MATERIALS FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929, BY KIND

	COST	of Ma	TERIAL	S REPORTEI) BY-		COST C	OF MA	TERIALS	REPORTED	BY
KIND OF MATERIAL	All classe lishi	s of nents	3		-	KIND OF MATERIAL	All classe lish	s of ment:	S		
	Amount	Per cent distribution	Per \$1,000 construction work done ¹	General contrac- tors ²	Subcon- tractors		Amount	Per cent distribution	Per \$1.000 construction work done ¹	General contrac- tors ²	Subcor tractor
MINNESOTA						MINNESOTA-Continued					
kinds of material Distribution not reported		27, 2	\$400, 16	\$25, 536, 554 7, 625, 567	\$9, 722, 074 1, 053, 924	All kinds of material—Continued. Distributed by kind—Continued. Pipe: Cast-iron, sheet, and tube					
Distributed by kind Sand, gravel, stone, slag, cinders, etc	25, 679, 137 2, 450, 674			17, 910, 987 2, 371, 202	7, 768, 150 79, 472	Steel, etc	\$240, 342 33, 256	.1	. 52	33, 256	
Brick (face, common, fire, pav- ing, etc.) Tile (fireproofing) Tile, facing, terra cotta, floor,	673.157	2.6	10, 49	650, 316 169, 580	22, 841	Bituminous paving materials, tar, asphalt, and oll Wood piling and timber Rendy mixed concrete	183, 972 212, 683 21, 362 218, 201	.8	2.87 3,31 .33 3.40	178, 688 201, 183 20, 376 218, 201	11, (
and wall Concrete and cinder block Cut stone, granite, and marble	125, 770 822, 466	.5 3.2	1,96 12,82	220, 661 114, 289 612, 786	242,752 11,481 209,680	Machinery Freight, hauling or trucking to job Chemicals and chemical prod-	218, 201 118, 717	. 5	1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1
Riprap, rúbble, etc Cement Lime	10, 804 2, 854, 689 85 659	(*) \$11.1 .3	1.34	8, 199 2, 693, 668 70, 938	2,605 161,021 14,721	ucts Metal products, n. e. s. (includ- ing metal furniture)	5, 349 189, 858	1	. 08 2. 96		j i
Plaster, etc Structural steel Reinforcing steel. Cast iron, miscellaneous (exclud-	842, 734 1, 725, 754 1, 338, 922	1,3 6.7 5.2	26.89	243, 869 1, 477, 199 1, 322, 226	98, 865 248, 555 16, 696	Mineral products (nonmetallic), n. e. s Textiles and caulking materials Miscellaneous	2, 402 225 164, 988	(3)	.04 (4) 2,57	2, 402 225 162, 028	
ing pipe). Metal doors, windows, and trim. Metal and wire lath and furring.	139, 847	1.3	5.27	41, 175 226, 523 49, 889	98,672 111,514 131,991	DULUTH					
Ornamental metal work	1,505,958 2,252,342	5.9 8.8	23, 47	489, 223	1, 016, 735 17, 204	All kinds of material Distribution not reported	1, 867, 346 594, 624	31.8	386.85	1, 451, 204 501, 886	
Lath, shingles, and shakes (wood) Millwork Composition board	961, 647 177, 703	4 3.7 7	14.99	91, 252 948, 844 69, 125	9,741 12,803 108,578	Distributed by kind Sand, gravel, stone, slag, cinders, etc	1, 272, 722 201, 662		1 1	949, 318 192, 059	323, 9,
Waterproofing materials. Hardware, rough and fluished Paints, varnishes, glass. Roofing and sheet metal	480, 134	1.6	6.54 7.48	51, 843 407, 690 205, 436	42, 043 11, 874 274, 698	Brick (face, common, fire, pav- ing, etc.) Tile (fireproofing) Tile, facing, terra cotta, floor,	26, 642 7, 600	2,1	8.10 2.31		
Finished flooring (other than cement, wood, or tile)	708, 283 62, 436 55, 975	2.8 .2 .2	. 97	268, 237 57, 969 31, 382	440, 048 4, 487 24, 593	and wall Concrete and cinder block Cut stone, granite, and marble	10, 986 2, 700 19, 111	1^{2}	.82 5.81	12, 211	6.
Heating and ventilating equip- ment Plumbing and gas fitting equip-	1, 730, 377	6.7	26.96		1, 477, 808	Cement.	118,962	[₿] 9.3	36.16	111, 955 1, 530	7
ment Electrical appliances and sup- plies Elevators, dumb-waiters, and	1, 870, 521 1, 411, 511	7.3 5.5	29.15 22.00		1, 594, 017 1, 047, 229	Plaster, etc. Structural steel Roin forcing steel Cast iron, miscellaneous, exclud-	11, 781 59, 540	4.7	18, 10	59, 530	
Pipe: Drain tile, vitrified, con-	458, 467	1.8	7.14	450, 467	8, 000	Metal doors, windows, and trim. Metal and wire lath and furring.	5 2, 390 4, 977 3, 002	(3) .2 .4 .2	(4) . 73 1, 51		4
crete, segment tile, corrugated.	239, 199	. 9	3.73	212, 896	26, 303	Ornamental metal work	3,002 388,343	\$ 30, 5	.91 118,04	1, 629	

TABLE 9.—COST OF MATERIALS FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929, BY KIND—Continued

	COST C	OF MA	TERIAL	B REPORTEI) BY		COST C	F MA	TERIALS	REFORTED	ВΥ
	All classe lishr	s of a nents					All classe lishi	es of	estab-		
KIND OF MATERIAL	Amount	Per cent distribution	Fer \$1,000 construction work done 1	General contrac- tors ?	Subcon- tractors	KIND OF MATERIAL	Amount	Per cent distribution	Per \$1,000 construction work done ¹	General contrac- tors ²	Subcon- tractors
DULUTH-Continued			-			MINNEAPOLIS—Continued					
A llkinds of material—Continued. Distributed by kind—Continued. Millwork. Composition board. Waterproofing materials. Hardware, rough and finished. Paints, varnishes, glass. Roofing and sheet metal. Finished flooring (other than cement, wood, or tile). Heating and ventilating equip- ment. Plumbing and gas fitting equip- ment. Electrical appliances and sup- plies. Pipe: Drain tile, vitrified, con- crete, segment tile, corrugated. Pipe: Cast-iron, sheet and tube steel, etc. Wire cable, guards, and fencing. Bituminous paving materials, tar, asphalt, and oil. Freight, hauling or trucking to job. Chemioalsand chemical products.	\$19,089 20,266 2,675 33,060 38,707 24,625 25 82,613 115,274 1,025 1,885 927 6,000 17,000 35,946	1.6 22.8 3.0 1.9 (³) 6.5 9.1 .1 .1 .1 .5 1.3	6. 16 81 10, 05 11, 76 7, 49 .01 25, 11 35, 04 .31 .57 .28 1, 82 5, 17	1, 735 927 6, 000 17, 000 35, 946	1,735 270 38,207 12,207 81,413 114,474 	All kinds of material—Continued. Distributed by kind—Continued. Bituminous paving materials, tar, asphalt, and oll	\$11, 264 198, 192 2, 024 218, 201 15, 827 606 169, 470 225 102, 520 10, 088, 470 4, 020, 485 6, 067, 985 754, 718 218, 169 54, 916	1.4 (3) 1.6 (3) (3) (3) (3) (3) (3) (3) (3) (3) (3)	6. 27 .08 6. 90 .50 .02 5. 36 .01 3. 24 336. 84 	198, 192 1, 638 218, 201 10, 308 246 135, 651 225 101, 214 8, 174, 893 3, 562, 086 4, 612, 807 735, 044 208, 855	956 5, 519 450 33, 819 1, 812 1, 913, 577 458, 399 1, 455, 178 10, 674 9, 814
ing metal furniture)	4, 882 24	(*)			4, 882 24	Wall	60, 182 56, 692	1.(3.34 8.15	35, 340	24, 842
MINNEAPOLIS	17 101 050		107 88	11 001 095	0 1 40 001	Cut stone, granite and marble Riprap, rubble, etc Cement Lime	253, 106 3, 048	4.2	14.05	232, 872 798	20, 234 2, 250
All kinds of material Distribution not reported					986,002	Lime	817, 478 25, 369 41, 483	.4	1.41	778, 779 21, 560 22, 202 507, 737	38, 699 3, 800 19, 281
Distributed by kind. Sand, gravel, stone, slag, cinders,	13, 831, 336			8, 677, 117		Plaster, etc Structural steel Reinforcing steel Cast iron, miscellaneous, exclud-	524, 240 424, 727	8.0	29, 10 23, 58	507, 737 423, 127	16, 503 1, 600
Brick (lace, common, hre, pav- ing, etc.) Tile (freproofing) Tile, facing, terra cotta, floor, and	988, 088 237, 152 117, 909 349, 364	1.7 .9 2.5	7,50 3,73 11,05	958, 305 224, 606 82, 509 142, 440	29, 783 12, 546 35, 400 206, 024	Cast iron, miscellaneous, exclud- ing pipe. Metal doors, windows, and trim. Metal and wire lath and turring. Ornamental metal work. Lumber, rough and finished. Lath, shingles, and shakes (wood).	31, 192 62, 554 16, 863 59, 828 480, 171	1.0	3, 47 . 94 3, 32	31, 192 62, 554 5, 967 53, 810 478, 181	10, 896 6, 018
Concrete and cinder block Cut stone, granite, and marble Riprap, rubble, etc Cement Lime Plaster, etc. Structural steel Reinforcing steel Cast iron, miscellaneous (exclud-	49, 498 415, 031 5, 156 1, 257, 922 38, 438 250, 224 960, 130 571, 255	(³) 9.1 .3	13.13	42, 063 232, 485 4, 801 1, 166, 920 28, 850 177, 954 735, 378 568, 969	7,435 182,546 355 91,002 9,588 72,270 224,752 2,286	Lath, sningles, and shakes (wool). Millwork. Composition board	8, 534 189, 626 22, 641 26, 602 66, 048 85, 380 299, 552	.4 .4 1.1	$1.26 \\ 1.48 \\ 3.66 \\ 4.74$	3, 534 189, 625 20, 566 26, 337 65, 918 25, 605 48, 705	2, 075 325 130
Metal doors, windows, and trim. Metal and wire lath and furring. Ornamental metal work. Lumber, rough and finished. Lath. shingles. and shakes	101, 729 195, 147 133, 805 1, 434, 073 866, 763	6.3 ⁶	4. 23 45. 37 27. 42	859, 145	98, 667 110, 499 116, 118 1, 009, 344 7, 618	rement, wood, or tile) Screens, shades, awnings, etc Heating and ventilating equip- ment Plumbing and gas-fitting equip- ment. Electrical appliances and sup-	14, 380 2, 037 468, 617 279, 651	(3)	. 80 . 11 26. 01 15, 52	14, 380 2, 037 28, 155 22, 426	440, 462 257, 225
(wood) Millwork Composition board Waterproofing materials Hardware, rough and finished Paints, varnishes, glass Roofing and sheet metal Finished flooring (other than cement, wood, or tile)	10, 418 432, 583 106, 353 55, 940 223, 393 239, 642 256, 831	$ \begin{array}{r} 8 \\ 4 \\ $. 33 13. 69 3. 36 1. 77 7. 07 7. 58 8. 13	5, 677 419, 780 16, 971 16, 757 214, 819 104, 440 126, 339	4, 741 12, 803 89, 382 30, 183 8, 574 135, 202 130, 492	plus Elevators, dumb-walters, and equipment. Pipe: Drain tile, vitrified, con- crete, segment tile, corrugated. Pipe: Cast-iron, sheet and tube steel, etc.	276, 238 3, 415 176, 885 34, 647 21, 081	4.6 .1 2.9	. 19 9. 82 1. 92	157, 652 12, 698	206, 886 19, 233 21, 949
Screens, shades, awnings, etc. Heating and youtilating material. Plumbing and gas-fitting equip- ment. Electrical appliances and sup- plies. Elevators, dumb-waiters and	23, 199 52, 438 945, 686 1, 204, 124 938, 470	.2 6.8 8.7 6.8	.74 1.66 29.92 38.09 29.69	18, 732 27, 845 210, 800 238, 528 287, 993	4, 467 24, 593 734, 886 965, 596 650, 477	Wire cable, guards, and fencing. Bituminous paving materials, tar, asphalt, and oil. Wood piling and timber. Ready-mixed concrete. Freight, hauling or trucking to job. Chemicals and chemical prod-	148, 455 11, 500 17, 738 1, 139	2. 4 . 2 . 3 (³)	1, 17 8, 24 . 64 . 98 . 06	148, 455 17, 738 1, 139	11, 500
equipment. Pipe: Drain tile, vitrified, con- crete, segment tile, corrugated Pipe: Cast-iron, sheet and tube steel, etc. Wire cable, guards, and fencing	442, 445 10, 412 193, 064 5, 639	3.2 .1 1.4 (³)	14.00 .33 6.11 .18	434, 445 3, 992 116, 164 5, 639	8,000 6,420 76,900	ucts	1, 765 6, 000 2, 402 18, 857	(³) .1 (³) 3	. 10 . 33 . 13 1. 05		1, 624

¹ The value of construction work done is obtained from figures presented in Table 1, by subtracting the value of subcontract work let from the total value of con-struction business. ¹ Includes operative builders. ² Less than one-tenth of 1 per cent. ⁴ Less than 1 cent. ⁵ The percentage of total cost shown for this item is high because establishments located within this area reported that a large part of their construction work (on which this material was used) was done on contracts outside this area.

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TABLE 10.—COMPARISON OF COST OF DESIGNATED MATERIALS FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929, WITH COST OF MATERIALS AND VALUE OF CONSTRUCTION BUSINESS

[Based exclusively upon reports of establishments which gave the distributed cost of materials]

							· · · · · · · · · · · · · · · · · · ·				_		
		COST OF	DESIGI			Indi-			COST OF	DESIGI TERIAI			
· · ·				nt of-		cated		a por a construction de la construcción de la const		<u> </u>	nt of-		Cated
KIND OF MATERIAL AND	Cost of all materials	· · ·			Value of	cent of all	KIND OF MATERIAL AND	Cost of all materials			<u>^</u>	Value of	cent of all
CLASSIFICATION OF ESTAB- LISHMENTS	distrib- uted by	1		dis-	construc- tion	busi- ness	CLASSIFICATION OF ESTAB- ILISHMENTS	distrib- uted by	ļ		dis -a	construc-	busi
LIGHTENIS	kind	Amount	cost	fed	business	done	1451101 15 19 10	kind	Amount	cost	ed all	business	done
		l	alc	Cost of all tributed		own force 1		1	1	al c	ibut ibut		by own
			Total	0 8 1 3		101.68 .				Total	Cost of all tributed terials		force
MINNESOTA		ļ — .	. •			}	MINNESOTA-Continued						
Sand, gravel, stone, slag, cinders, etc. ¹							Cut stone, granite and marble					· · · ·	
All classes	\$25, 679, 137	\$2, 450, 674	100.0	9.6	\$63, 491, 442	83. 3	All classes	\$25, 679, 137	\$822, 466	100.0	3.2	\$63, 491, 442	83.1
General contractors 3 Building	. 10. 531. 440	2,371,202	96.8 28.1		46, 525, 429 25, 952, 771	79.4 71.8	General contractors ³ Building Building not specialized ³ . Commercial building only	417,910,987	612, 786 610, 459		3.4	5 46, 525, 429 5 25, 952, 771	79.
Building not specialized ³ . Commercial building only.	9, 236, 598 736, 031	620, 567 53, 434	25.3	6.7	22, 783, 768	73.0 62.7	Building not specialized ³ .	9, 236, 598	589, 136 17, 956	71.6	6.4 2.4	⁵ 25, 952, 771 22, 783, 768 1, 718, 449	897
Manufacturing building	21,002	ł .					Residential building only Highway - Bridge and culvert	537, 809 2, 297, 410	3, 367 2, 150	.4	.6 .1	1,388,554	70, 2
Manulacturing building only Residential building only. Highway Bridge and culvert Grading. Street paving Sewer, gas, water, conduit Dam and reservoir Waterworks Railroad Foundation	21,002 537,800 2,297,410	2, 200 11, 276 912, 298	37, 2	2,1	1, 388, 554	70,2			177	(8)	(*)	4, 546, 451	97. 6
Bridge and culvert	2,099,818	226, 329	. 9.2	10,8	4, 546, 451	97.9 82.4	Subcontractors Concreting Glass and glazing Marble and tillng	4 7, 768, 150	209, 680 160	25. 5 (%)	2.7 .2	^{\$} 16, 966, 013 273, 378	97.4 89.2
Street paving Sewer, gas, water, conduit	731,809		9,1	30, 6	2, 173, 424	97. 0 94, 4	Glass and glazing	18,000	1, 000 208, 520	.1	5.6 36.3	49,000 1,382,821	100, 0
Dam and reservoir Waterworks	696, 249 681, 500	4 111 359	4.5	16.0	1,605,000	93. 1 92. 3	Cement 1			-01 -		1,002,021	50,1
Railroad Foundation	681, 500 175, 632 22, 665	15, 800 7, 405	. 6	9.0	581,017	80. 9 98. 9	All classes	25 679 137	2, 854, 689	100.0	11.1	63, 491, 442	83. 3
Central station, light and power plant	256, 480		(·			96.3	General contractors ³	17, 910, 987	2,693,668	94, 4	15.0	46, 525, 429	79.4
Carbonation	1 7 700 110	-	1		⁵ 16, 966, 013	97.4	General contractors ³ Building Building not specialized ³ .	10, 531, 440 9, 236, 598 736, 031	1,010,211 898,293	31.3	9.6 9.7	25, 952, 771 22, 783, 768 1, 718, 449	71.8
Concreting Heating and plumbing Heating and plping Plumbing Plumbing and heating combined Maganaw	98,968	21, 912 645	. 9		273, 378 6, 015, 381	89.2 97.4	Manufacturing building	190,001	11,041	2.7	10.5	1, 718, 449	62.7
Heating and piping	1,058,722	435 10	. (6)	(0) (0)	1, 973, 996 2, 562, 785	95.5 98.1	only	21,002 537,809	6, 902 32, 989	. 2 1. 2	32.9 6.1 29.5	62,000 1,388,554	64. 5 70, 2
Plumbing and heating	547 411	200	·	(0)	2, 302, 783 1, 131, 836	97.9	Highway Bridge and culvert	2, 297, 410 2, 099, 816	678, 022 302, 885 307, 870	23. 8 10. 6	14.4	7, 149, 409	97.9
	50, 896	3,452 100	. 1	6.8	111, 500	100,0	Residential building only Highway Bridge and culvert Street paving Sewer, gas, water, conduit Dam and reservoir Waterworks Railroad Foundation Central station, light and Dower plant	731, 809 297, 486	70, 715	10.8 2.5	42. 1 23. 8 24. 4	2, 173, 424 800, 567	97. 0 94. 4
Glass and glazing Plastering and lathing Roofingandsheet-metalwork.	18,000 264,696 485,720 272,760 136,925	12, 228 236	5	. 6 4. 6	066 966	05.01	Dam and reservoir	696, 249 681, 500	169, 865 91, 000	6.0 3.2	24.4 13.4	1,605,000 1,565,000	93.1
Roonng	272,780	170	(%)	(6) . 1	⁵ 1, 069, 056 598, 522 315, 247	100.0	Railroad Foundation	175, 632 22, 665	19,600 10,500	.7	$ \begin{array}{c} 11.2 \\ 46.3 \end{array} $	581, 017 88, 761	80, 9
Sheet-metal work	35, 640	4/3	(6)	1.3	329, 902	70.3	Central station, light and power plant	256, 480	33, 000	1, 2	12, 9	665, 480	
Steel erection Marble and tiling Excavating Bridge and culvert Soundproofing Flooring, n. e. s	574, 586 63, 507	4,424	. 2	4.7	839, 829	99, 9 90, 6				5, 6		16, 966, 013	
Soundproofing	19,300 107,645	300	(6)	36. 1 3	123, 259	100.0	Subcontractors Concreting Heating and plumbing Plumbing and heating combined Macoury	98, 968 4 3, 157, 894	37, 430 320	1.3	37.8	273.378	89.2
	13, 300	1, 540	.1	11,6	107, 840	100.0	Plumbing and heating	1, 413, 411	170	(⁶) (⁶)	(6) (6)	⁸ 6, 015, 381 2, 562, 785	98, 1
Brick (face, common, fire, paving, etc.)							combined	547, 411 50, 896	150 6, 300	⁽⁶⁾ . 2	(⁶) 12.4	1, 131, 836 111, 500	100.0
All classes	25, 679, 137	673, 157		2.6			Masoury Glass and glazing Plastering and lathing Marble and tiling Excavating Bridge and culvert Soundproofing Flooring, n. e. s	18,000 264,696	250 6, 902	(6)	1.4 2.6	49,000	100.0
General contractors ³ Building Building not specialized ³ .	10, 531, 440	650, 316 533, 890	79,3	5.1	46, 525, 429 25, 952, 771	79.4 71.8	Marble and tiling	574, 586 63, 507	66, 893 24, 166	2.3	11.6 38.1	1, 382, 821 839, 829 38, 500	99. ŭ 90. 6
Commercial building only. Manufacturing building	9, 236, 598 736, 031	498, 665 14, 492	74.1 2.2	5.4 2.0	22, 783, 768 1, 718, 449	73. 0 62. 7	Bridge and culvert	19,300 107,645	5, 625 1, 375	(⁶)	29.1 1.3	38, 500 123, 259	100.0
Manufacturing building onlyResidential building only.	21,002	2, 800 17, 933	.4	13. 3	62, 000 1, 388, 554	64. 5	Flooring, n. e. s.	13, 300	11, 760	.4	88.4	107, 840	100, 0
Highway Bridge and culvert	21, 002 537, 809 2, 297, 410	17,938 38,111	5.7				Structural steel		1 - 1 - 1 - 1 				
Street paving	731,809	27, 039	9 4.0	3.7	4, 546, 451 2, 173, 424	97.9 97.0	All classes	25, 679, 137				63, 491, 442	
Sewer, gas, water, conduit Waterworks	297, 486 681, 500 175, 632	1,889 15,000	$2, \frac{3}{2}$	2.2	1, 565, 000	94.4 92.3	General contractors 3 Building	10.531.440	1, 477, 199 551, 084	85.6 31.9	8.2 5.2	46, 525, 429 25, 952, 771 22, 783, 768	79.4 71.8
Railroad Central station, light and		3, 100	. 5	1.8	581, 017	80.9	Building Building not specialized ³ Commercial building only.	9, 236, 598 736, 031	525, 573 21, 424	30.5	5.7 2.9	22, 783, 768 1, 718, 449	73.0 62.7
power plant	256, 480	25, 000	3.7	9.7	665, 480	96. 3		537, 809 2, 297, 410	4, 087 45, 266	2.6	, 8 2, 0	$\begin{array}{c}1,718,449\\1,388,554\\7,149,409\end{array}$	70.2 81.7
Concreting	4 7, 768, 150 98, 968	22, 841 3, 540	3,4	3.6	 ⁵16, 966, 013 273, 378 ⁶6, 015, 381 1, 973, 996 2, 562, 785 	97.4 89.2	Bridge and culvert Bridge and culvert Street paving Sower, gas, water, conduit Dam and reservoir Raliroad Foundation	2,099,816 731,809	790, 175 4, 231	45.8	37.6	$\frac{4}{2}, \frac{546}{173}, \frac{451}{424}$	97. 9 97. 0
Heating and plumbing Heating and piping Plumbing	4 3, 157, 894 1, 058, 722	12,704 12,494	1.9 1.9	1.2	6, 015, 381 1, 973, 996	97.4 95.5	Sewer, gas, water, conduit Dam and reservoir	297, 486 696, 249	21.6861	$1.3 \\ 2.5$	7.3 6,2	800, 567 1, 605, 000	94, 4 93, 1
Plumbing and heating combined	1, 413, 411	10	(6)	(1)		98.1	Railroad Foundation	175, 632 22, 665	43, 257 21, 000 500	1.2 (⁶)	12,0 2,2	581, 017 88, 761	80, 9 98, 9
Masonry	547, 411 50, 896	200 4, 644	(6)	(⁶) 9, 1	1, 131, 836 111, 500 \$ 966, 266	97.0 100.0	Subcontractors		248, 555	14.4	3.25	18 066 013	97.4
Plastering and lathing Roofing and sheet-metal work Sheet-metal work	264, 696 485, 726	500 56	. 1	2	⁴ 966, 266 ⁵ 1, 069, 056	95, 9 99, 2	Concreting Heating and plumbing	98,968 4 3,157,894	248, 555 7, 000 16, 643	.4 1.0	7.1	273, 378 ⁵ 6, 015, 381 1, 973, 996 2, 562, 785	89, 2 97, 4
Sheet-metal work	136, 925 35, 840	56 1, 352	(⁶) (⁶) 2	(6) 3.8	⁵ 1, 069, 056 315, 247 329, 902	97.5 70.3	Heating and piping	1,058,722 1,413,411	16, 503 140	* ^	1, 6 (6)	1,973,996 2,562,785	95.5 98,1
Steel erection Marble and tiling	574, 586	45	(0)	(6)	1, 382, 821	90.9	Subcontractors Concreting Heating and plumbing Heating and plping Plumbing. Steel erection Ornamental iron Bridge and cultert	35, 640 1, 287, 312	25, 461 197, 000	1.0 (⁶) 1.5 11,4	(⁶) 71, 4 15, 3	329,902	70.3 100.0
Tile, facing, terra cotta, Noor, and wall							Bridge and culvert Metal work, n. e. s	19, 300 217, 443	300 2, 151	(6)	1.6	1, 815, 619 38, 500 463, 716	100.0 100.0
All classes	25, 679, 137	463, 413	100.0		63, 491, 442	83.3	Reinforcing steel		-, 101				
Jeneral contractors 1 Building	17, 910, 978	220, 661 219, 031	47.6 47.3	$\frac{1.2}{21}$	46, 525, 429	79.4 71.8	All classes	25, 791, 137	1, 338, 922	100. 0		63, 491, 442	83. 3
Building not specialized ³ . Commercial building only	9, 236, 598 736, 031	213, 085	46.0	2. 3	25, 952, 771 22, 783, 768 1, 718, 449 1, 388, 554 4, 546, 451	73.0 62.7	General contractors 3	17, 910, 987	1, 322, 226 611, 684	98.8 45.7	7.48	46, 525, 429 25, 952, 771	79.4 71.8
Residential building only. Bridge and culvert.	537, 809 2, 099, 816	5, 104 842 1, 630	. 2	2	1, 388, 554	70.2	Building not specialized ³ Commercial building only. Residential building only.	9, 236, 598	551 927	41.2 4.3	6. 0 7 0	22, 783, 768	78.0
		1,630	.4 50 4		1	97.9	Residential building only.	10, 531, 440 9, 236, 598 736, 031 537, 809 2, 297, 410	58, 031 1, 726 258, 525	. 1	11, 3	40, 520, 429 25, 952, 771 22, 783, 768 1, 718, 449 1, 388, 554 7, 149, 409	62.7 70.2 81.7
Subcontractors	574, 586	242, 752 242, 752	52, 4 52, 4	42.2	16, 966, 013 1, 382, 821	97.4 99.9	Highway Bridge and culvert	2, 297, 410 2, 099, 816	208, 620 276, 844	$19.3 \\ 20.7$	11.5 13.2	4, 546, 451	97.9
See footnotes at end of t	able.												

TABLE 10.—COMPARISON OF COST OF DESIGNATED MATERIALS FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929, WITH COST OF MATERIALS AND VALUE OF CONSTRUCTION BUSINESS— Continued

		COST OF 1 MAT	DESIGN	ATED		Indi- cated	an Arra Maria		COST OF I MAT	DESIGN			Indicate
	Cost of all		Per ce	nt of	Value of	per cent		Cost of all materials		Per ce		Value of	per cent of al
UND OF MATERIAL AND CLASSIFICATION OF ESTAB- LISHMENTS	materials distrib- uted by kind	Amount	Total cost	Cost of all dis- tributed ma- terials	construc-	of all busi- ness done by own	KIND OF MATERIAL AND CLAS- SIFICATION OF ESTABLISH- MENTS	distrib- uted by kind	Amount	Total cost	Cost of all dis- tributed ma- terials	construc- tion business	busi ness done by own force
			Tota	Cost tri		force 1				Tot	C C C C C C C C C C C C C C C C C C C	<u> </u>	10100
MINNESOTA-Continued					• • •		MINNESOTA-Continued					$\gamma_{A} = 1$	
Reinforcing steel-Con.			- 12		14 C		Hardware, rough and finished						1.12
Jeneral contractors—Con. GradingStreet paving Sewer, gas, water, conduit Dam and reservoir Railroad	207, 486 696, 249	\$10, 693 79, 780 19, 961 41, 559 3, 680 3, 500	$\begin{array}{c} 6.0\\ 1.5\\ 3.1\\ \end{array}$	6.7	1,605,000 581,017	93.1	All classes General contractors ³ Building not specialized ³ . Commercial building only.	417,910,987 10,531,440	407, 690 347, 620	97.2 82.9 63,1		\$63, 491, 442 \$46, 525, 429 25, 952, 771 22, 783, 768 1, 718, 449	
Foundation Central station, light and power plant	256, 480	16, 000	1, 2		· ·		Manufacturing building only	21,002 537,809 2,297,410	400 27, 331 9, 297 7, 865	$ \begin{array}{c} .1 \\ 6.5 \\ 2.2 \\ \end{array} $	1.9 5.1	1, 388, 554	64 70 81
Subcontractors Concreting Steel erection Marble and tiling Excavating Bridge and culvert	4 7, 768, 150 98, 968 35, 640 574, 586 63, 507 19, 300	16, 606 11, 150 936 10 1, 600 3, 000	(°) 1	(⁶) 2, 5	1, 382, 821 839, 829	00.0	only Residential building only Highway Bridge and culvert Street paying Sewer, gas, water, conduit Dam and reservoir Waterworks	2, 297, 410 2, 099, 816 731, 809 207, 480 696, 240 681, 500	7, 865 1, 433 8, 615 7, 860 25, 000	2. 1 1. (6. ($\begin{array}{cccc}$	4, 546, 451 2, 173, 424 800, 567 1, 605, 000 1, 565, 000	97 97 94 93 93
Ornamental metal work			100, 0	5, 9	8 63, 491, 44 2	88. 3	Subcontractors Concreting Heating and plumbing	4 7, 768, 150 98, 968 4 3, 157, 894	11, 874 1, 600 1, 237	.4	21 (8)	⁸ 16, 966, 018 278, 378 6, 015, 381	11 97
			32. 5 32, 5	2.8 4.7	\$ 46, 213, b20 \$ 25, 640, 871	79, 6 72, 0	Subcontractors Concreting Heating and plumbing Heating and plumbing Plumbing Plastering and lathing Boofing and sheat-metal	1, 058, 722 1, 413, 411 264, 696	1, 212 25 361	(*)	(0)		1.1
General contractors Building Building not specialized Commercial building only Residential building only Highway	,,		.7 (*) (*)	1.5 (⁶) (⁶)	1, 718, 449 1, 388, 554 7, 149, 409	62, 7 70, 2 81, 7	Plastering and lating Roofing_ and sheet-metal work Sheet-metal work Steel erection Marble and thing Bridge and culvert	485,726 272,760 136,925 35,640 574,586 19,300	6, 235 1, 000 5, 235 816 1, 225	1.2 1.2 .3	2 3.8 2 2.8 2 2.8	4 1,069,050 596,522 315,247 329,902 1,382,821 38,500	2 7
Subcontractors Roofing and sheet-metal work Sheet-metal work	4 485, 726	553	(6)	.1	\$ 1,069,056	99.2	Bridge and culvert Paints, varnishes, glass	19,300	400	1	2.1	38, 500) 10
Sheet-metal work Marble and tiling Ornamental iron	136, 925 574, 586 1, 287, 312	553 6, 870 1, 009, 312	5	1.2 78.4	315, 247 1, 382, 821 1, 815, 619	97, 5 99, 9 100, 0	All classes	25, 670, 187	480, 134	100.0	1, 9	63, 491, 442	8 5
Lumber, rough and finished							General contractors ⁴ Building Building not specialized ⁸ Commercial building only. Desidential building only.	417,910,987 410,531,440	205, 436 187, 448 169, 104	39.0		⁴ 46, 525, 429 ⁵ 25, 952, 771 22, 783, 768	77
All classes			100. 0		63, 491, 442				5, 133 13, 211 8, 253 7, 453	1.1 2.8 1.7	2.5	1, 718, 440	8
eneral contractors ³ Building not specialized ³ Building not specialized ³ Commercial building only. Manufacturing building	780,081	161,000	66.1 47.2 8.1	12.5 14.1 11.5 24.7 21.4	⁸ 46, 525, 429 25, 952, 771 22, 783, 768 1, 718, 449		Bridge and culvert Bridge and culvert Street paving Sewer, gas, water, conduit Dam and reservoir Waterworks	2, 297, 410 2, 009, 816 731, 809 297, 486 696, 249 681, 500	538	.1	(⁶) 2 .2	${}^{\$}46, 525, 422$ ${}^{\$}25, 952, 771$ 22, 783, 768 1, 718, 440 1, 888, 554 7, 140, 409 4, 546, 451 2, 173, 424 800, 567 1, 605, 000 1, 565, 000	
only Residential building only Highway Bridge and culvert Street paving Sewer, gas, water, conduit Dam and reservoir	21, 002 537, 800 2, 207, 410 2, 099, 816 731, 809 297, 486	239, 209 73, 734 216, 877 12, 327 29, 878	3.3 9.6 .5	44.5 3.2 10.3 1.7 10.0	$\begin{array}{c} 1,388,554\\7,149,409\\4,546,451\\2,173,424\\800,567\end{array}$	70. 2 81. 7 97. 9 97. 0 94. 4 93. 1	Subcontractors Heating and plumbing Heating and piping Plumbing and heating combined Deviction and decombing		274, 098 650 200 100	57.2 .1 (⁶) (⁶)	3,5 (6) (0) (0)	^{\$} 16, 966, 013 ^{\$} 6, 015, 381 1, 973, 990 2, 562, 785	
Foundation Central station, light and power plant	22, 065 256, 480	.364, 000 600 700	16.2 (⁶)	2.6	1, 565, 000 88, 761 655, 480	92. 8 98. 9 96. 8	Painting and decorating Painting and decorating Glass and glazing Plastering and lathing Roofing and sheet-metal work	18,000 264,696	13, 550 27	()	(*)	966, 266	i î
Subcontractors Concreting Heating and plumbing Heating and piping Plumbing combined Planteing and lathing	4 7, 768, 150 98, 968 3, 157, 894 1, 058, 722 1, 413, 411	$17,204 \\ 5,100 \\ 800 \\ 150 \\ 550 \\ 550 \\ 500 \\$	(°) (ð)	.2 5.2 (⁶) (⁶) (⁶)	⁵ 16, 966, 013 273, 378 ⁵ 6, 015, 381 1, 973, 996 2, 562, 785	97.4 89.2 97.4 95.5 98.1	Marble and tiling Marble work, n. e. s	4 485, 720 272, 760 574, 586 217, 443	100 827	(*)	(⁸) (⁸) 2, 4	⁶ 1, 069, 056 596, 522 1, 382, 821 463, 716	2 10 9 10
Plumbing and heating combined Plastering and lathing Roofing and sheet-metal	547, 411 264, 696	100 176		(*)	1, 131, 836 966, 266	1	Roofing and sheet metal All classes			<u> </u>		63, 491, 442	
Roofing and sheet-metal work	4 485, 726 136, 925 35, 640 574, 586 63, 507 19, 300 107, 645	3, 133 565 3, 034 3, 000	(0) (0)	L 4.8	839, 829 88, 500	99.9	General contractors ³ Building not specialized ⁴ Commercial building only Residential building only Highway. Bridge and culvert	9, 236, 598 736, 031 537, 809 2, 297, 410 2, 099, 816	220, 198 7, 027 6, 444 12, 137 7, 939	33.0 31.1 1.0	1,5 2,2 2,4 1,0 1,2 5 .4	⁵ 46, 525, 420 ⁵ 25, 952, 771 22, 783, 768 1, 718, 449 1, 388, 554 7, 149, 400 4, 546, 451 1, 605, 000	
Millwork							Dam and reservoir Subcontractors Heating and plumbing	696, 249 4 7, 768, 150 4 3, 157, 894	14, 492 440, 046 14, 703	62.1 2.1	5.7	16, 966, 013 6, 015, 381	3 6
All classes	417, 910, 987	948, 844			63, 491, 442 46, 525, 420 5 25, 952, 771		Bine covering	1,008,722	8,150 3,753	1.2	4.7	1, 973, 996 184, 986	3 9 5 10 5 9
Building not specialized ³ . Commercial building only.	9, 236, 598	948, 844 931, 278 761, 239 46, 207	79.	8.2	22, 783, 768 1, 718, 449	73.0 62.7 70.2	Plumbing Plumbing and heating combined Roofing and sheet-metal	547, 411			.2	1, 131, 836	3
Residential building only Highway Bridge and culvert Street paving	2, 297, 410 2, 099, 816 731, 809	6,000 9,984) 12. (1. (1. () (⁶)	23. U 3 . 3 0 . 5 (6)	146, 525, 420, 525, 420, 525, 952, 771, 525, 952, 771, 525, 771, 718, 440, 51, 388, 554, 77, 149, 400, 54, 546, 451, 22, 173, 422, 500, 567, 567, 567, 567, 567, 567, 567, 567	97.9 97.0	Roofing and Sheet-metal Roofing and sheet-metal combined Steel erection Metal work, n. e. s.		225, 636	31.9 16.1	82, 7 83, 1	596, 522 315, 247	
Sewer, gas, water, conduit		1,000	1.1				combined	76, 041 35, 640	712	10.7	100. 0 2. 0 4. 2	157, 287 329, 902 463, 710	7 1
Soundproofing	107, 64	12, 80	i î.	8 11.0	16, 966, 013 123, 259) 100 . 0	Metal work, n. e. s	217, 443	9,148	1.3	3 4.2	a 403,710	oj 1

See footnotes at end of table.

TABLE 10.—COMPARISON OF COST OF DESIGNATED MATERIALS FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929, WITH COST OF MATERIALS AND VALUE OF CONSTRUCTION BUSINESS— Continued

						· · · · · · · · · · · · · · · · · · ·			<u></u>				
		COST OF I MAT	ESIGN ERIAL	ATED		Indi-			COST OF I MAN	DEFIGI PERIAL			Indi-
			Per ce	nt of		cated per				Per ce	nt of		cated per
KIND OF MATERIAL AND	Cost of all materials			44	Value of	cent of all	KIND OF MATERIAL AND	Cost of all materials			dis- ma-	Value of construc-	of all
CLASSIFICATION OF ESTAB- LISHMENTS	distrib- uted by	Amount		ll dis- ma-	construc- tion business	busi- ness	CLASSIFICATION OF ESTAB- LISHMENTS	distrib- uted by	Amount		E B G	tion	busi- ness
	kind	Amount	cost	of al uted	Dusiness	done by		kind	11 mount	cost	of a als		done by own
			Total	Cost of all tributed terials		force 1				Total cost	Cost of all tributed terials		force 1
			÷	0							<u> </u>		
MINNESOTA-Continued							DULUTH						
Heating and ventilating equipment							Sand, gravel, stone, slag, cinders, etc. ²						
All classes	\$25, 679, 137	\$1, 730, 377	100.0	6.7	\$63, 491, 442	83. 3	All classes	\$1, 272, 722	\$201, 662	100.0	15.8	\$3, 336, 939	88, 7
General contractors ¹	417, 910, 987 410, 531, 440	252, 569 250, 919	14.6 14.5	1.4 2.4	46, 525, 429 25, 952, 771	79.4 71.8	General contractors	949, 318 168, 544	192, 059 12, 912	95, 2 6, 4		2, 513, 880 550, 905	87.3 74.9
Building Building not specialized ⁸ Residential building only	9, 236, 598 587, 800	248, 419 2, 500	14.4	2.7	22. 783. 768	1 73.0	Building Building not specialized Highway	168, 544	12, 912	6.4 52.7	7.7 52.4	550, 905 458, 393	78.8 85.2
Highway. Sewer, gas, water, conduit	2,297,410	1, 100	(⁶) ¹	.2	7, 149, 409 800, 567	94.4	Highway Street paving Waterworks Foundation	44, 135 511, 500	10,552	5.2 27.3	23.9 10.8	100, 821	97.7
Subcontractors	1 1 107 900		85.4	19.0 6.8	⁵ 16, 966, 013 2, 202, 041 6, 015, 381	97.4 99.3		•	7, 405	3.7	32.7		
Heating and plumbing Heating and piping Pipe covering	3, 157, 894 1, 058, 722	1.381.547	79.8	43.7 64.4	6, 015, 381 1, 973, 996	90,0	Subcontractors Heating and plumbing	4 323, 404 4 211, 754	9, 603 200	4.8		⁶ 823, 059 ⁸ 444, 899	
Pipe covering Plumbing	80,275	57,450	3.3 18.9	71.6	184, 985 2, 562, 785	100.0	Plumbing and heating combined Glass and glazing Plastering and lathing	56, 500	200 100		.4	102, 500 49, 000	98.0 100.0
Plumbing Plumbing and heating combined	547, 411	257, 017	14. 9	47.0	1, 131, 886	97. 9	Plastering and lathing Roofing and sheet-metal	18,000 14,470			26.4	48, 418	
Automatic temperature control Roofing and sheet-metal	58, 075	58, 075	3.4	100.0	161, 779	100.0	workSheet-metal work	18, 624 18, 624	66 60	(8)	.4	46,007 46,007	92.4 92.4
work Roofing	4 485, 726 272, 760	17, 829 1, 800	1.0		⁸ 1,069,056 596,522	100 01	Marble and tiling	36, 086	5, 413		15.0		99.4
Sheet-metal work Metal work, n. e. s	136, 925	16, 029	. 9	11.7	315, 247	97.5 100.0	Brick (face, common, fire, paving, etc.)						
Plumbing and gas fitting							All classes	1, 272, 722	26, 642	100.0	2.1	8, 336, 939	88.7
equipment All classes	25 679 137	1, 870, 521	100.0	7.3	63, 491, 442	83. 3	General contractors	1 949, 318	25, 861	97.1	2.7	\$ 2, 513, 880	87.3
the first state of the state of			14.8	1.5	46, 525, 429	79.4	Building Building not specialized Street paving	168,544	24, 361 24, 361	91.4	14.5	550,905	78.8
General contractors ³ Building Building not specialized ³ .	9,236,598	243, 419	13.0	2.3	⁴ 25, 952, 771 22, 783, 788	71.8 73.0		1.1	1,500				
Residential building only. Highway	537,809 2,297,410	2, 517 2, 685	,1	1 1	7. 149. 469	81.7	Subcontractors Heating and plumbing	4 323, 404 4 211, 754 19, 680	781 680 680	2, 6	.3	444, 8 99	95.5
Bridge and culvert Street paving	731,809	57	(6)	(8)	2, 173, 424	97.9 97.0	Heating and piping Roofing and sheet-metal work	18, 624					
Sewer, gas, water, conduit Central station, light and power plant	297, 486			1.4.1			Sheet-metal work Marble and tiling	18, 024	56	.2	.3	46, 007 103, 280	92.4
Subcontractors	256, 480 4 7, 768, 150	1, 594, 017	85.2	20.5	\$10.900.013	97 4					11		
Electrical Heating and plumbing	4 3, 157, 894	1, 587, 959	84.9	50.3	0.015.381	99.3 97.4	Cut stone, granite and marble			1. A.		an Maria ana a	
Heating and piping Plumbing	1,058,722 1,413,411	244, 357 1, 061, 833	13.1 56.8	23.1 75.1	1, 973, 996 2, 562, 785	95. 5 98, 1	All classes	1, 272, 722	19, 111	100.0	1.5		·
Plumbing and heating combined	547, 411	281, 769	15.1	51, 5	1, 131, 836	97. 9	General contractors Building	168, 544	12, 211	63.9	7.2	550, 905	74.9
Roofing and sheet-metal work Sheet-metal work	485, 726	58 58	.(0) (6)	(6) (6)	⁶ 1, 069, C56 315, 247	99. 2 97. 5	Building Building not specialized	168, 544	12, 211	1		and the second	
Electrical appliances and						1.1	Subcontractors. Glass and glazing	4 323, 404 18, 000	1,000	5.2	2 - 5.6		100.0
supplies All classes	25, 679, 137	1, 411, 511	100.0	5.5	63, 491, 442	83, 3	Marble and tiling	36, 086	5, 900	30.0) 16.3	103, 200	,
G	117 010 007	204 000	25.8		⁴ 46, 525, 429	79,4	Cement ²		110.000			0.000.000) - 88.7
Building	10, 531, 440 9, 236, 598	294, 176 285, 305	20.8	2,8 3.1	⁵ 25, 952, 771 22, 783, 768	71.8 73.0	All classes	1, 272, 722	111.055	00		·	
Commercial building only. Residential building only.	736,031 537,809	6, 242 2, 629	. 4	.8	1, 718, 449 1, 388, 554	62.7 70.2	General contractors Building	168, 544	111, 955 17, 879 17, 879	15.0		4 2, 513, 880 550, 904 550, 904	5 74.9
Bridge and culvert	2, 099, 810	50, 659	3.6	2.4	⁶ 46, 525, 429 525, 952, 771 22, 783, 768 1, 718, 449 1, 388, 554 7, 149, 409 4, 540, 451 800, 567 1, 605, 000	81, 7 97, 9 94, 4	Building Building not specialized Street paying Waterworks Foundation	44, 135	18,576	15. 15. 15. 54.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	100,823 1,315,000	01.90.9
Sewer, gas. water, conduit Dam and reservoir Central station, light and	297, 486 696, 249	7, 400 5, 747	. 5	2.5	1, 605, 000	- 93. 1	Foundation	1	1		5 ±0.0	88, 761	1 98.8
Dower plant	256, 480		.4	1,9	665, 480	96.3	Subcontractors	4 323, 404 4 211, 754	7,007	5.		\$ 823, 059 \$ 444, 899	9 93, 9 9 95, 5
Subcontractors. Electrical Heating and plumbing	⁴ 7, 768, 150 1, 107, 309	1,025,809	72.7	13.5 92.6	 ⁶ 16, 966, 013 2, 202, 041 4, 0, 015, 381 1, 973, 996 2, 562, 785 1, 382, 821 	97.4 99.3	Heating and plumbing Plumbing and heating combined Glass and glazing. Plastering and lathing. Marble and tiling.	56, 500	150		1,8	102, 500	98.0 100.0
Heating and plumbing Heating and piping	4 3, 157, 894 1, 058, 722	9,500	1.5	.7	1,973,996	97.4 95.5 98.1	Glass and glazing Plastering and lathing	18,000	382	2	2 1.4 3 2.6 2 17.3	48,41	89.6
Heating and piping Plumbing Marble and tiling	1, 413, 411 574, 586			(1)	1, 382, 821	99.9	Marble and tiling	36, 080	6, 225		2 17.0	100,20	
Elevators, dumb-waiters, and equipment					1. A. A.		Reinforcing steel					0 000 000	00 -
All classes	⁷ 25, 679 , 137	458, 467	100.0		⁸ 63, 491, 442		All classes		-	100.			
General contractors	117, 789, 341	450, 467 450, 284	98. 3 98, 2	2.5	46, 213, 529	79.6	General contractors Building Building not specialized	4 949, 319 168, 544 168, 544	1 5,064	100. 100. 1 8.	5 3.0	550,90	5 74.9 5 78.8
Building Commercial building only. Bridge and culvert	9, 114, 952	400, 284 321, 308 128, 976	70.1	3.5	⁵ 46, 213, 529 ⁵ 25, 640, 871 22, 471, 868 1, 718, 449 4, 548, 451	73. 3 62. 7	Highway	202, 47 44, 13	46, 399	9 77.	9 22, 9	458, 39	3 85.2 1 97.7
			(6)	(8)	4, 548, 451	97.9	Highway Street paving Foundation	1		5.	9 15.4		
Subcontractors Metal work, n. e. s	7, 768, 160 217, 443	8,000 8,000	1.7 1.7	3.7	[≤] 16, 966, 013 463, 716	100.0	Subcontractors Marble and tiling	4 323, 40 36, 08		(6) (6)	(6) (6)	\$ 823, 05 103, 28	9 93.9 0 99.4
	landarite and			<u>محمد م</u>				-, -, -, -, -,	· · · ·			. 1 b - mg	

See footnotes at end of table.

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TABLE 10.—COMPARISON OF COST OF DESIGNATED MATERIALS FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929, WITH COST OF MATERIALS AND VALUE OF CONSTRUCTION BUSINESS— Continued

		COST OF	DESIG. TERIAL			Indi-			COST OF MA	DESIGN TERIAL			Inc
	Cost of all	: ·.	Per ce	ent of-		cated per cent		Cost of all		Per ce	nt of		cat pe cer
KIND OF MATERIAL AND CLASSIFICATION OF ESTAB- LISHMENTS	materials. distrib- uted by kind	Amount	Total cost	Cost of all dis- tributed ma- terials	Value of construc- tion business	ofall	CLASSIFICATION OF ESTAB- LISHMENTS	materials	Amount	Total cost	Cost of all dis- tributed ma- terials	Value of construc- tion business	of a but nes dor by ow force
DULUTH-Continued							DULUTH-Continued	-					
Lumber, rough and finished 1					· · · ·		Heating and ventilating equipment	1				· ·	
All classes	\$1, 272, 722	\$388, 343	100. 0	30, 5	 \$3, 336, 939	88.7	All classes	- \$1, 272, 722	\$82, 613	100, 0	6. 5	\$3, 336, 939	8
General contractors Building	4 949, 318 168, 544	388, 247 20, 597	100.0		\$ 2, 513, 880	87.3 74.9	General contractors. Building	4 949, 318	1, 200	1.5	. 1	\$ 2, 513, 880) 8
Street paying Waterworks	168, 544 44, 135 511, 500	26, 597 1, 050 360, 000	6.8 3 92.7	15.8 2.4 70.4	550, 90/ 100, 821 1, 315, 000	97.7	Building not specialized Subcontractors Heating and plumbing	- 168, 514		1.5	:7	550, 905 550, 905 \$ 823, 059	7
Foundation	22, 665 • 323, 404	600 96	1 A A	2, 6 (4)	88, 761 \$ 823, 050	98.0			19,000	91.2 23.0	35, 6 96, 5	444, 899 38, 000) 10
Roofing and sheet-metal work Sheet-metal work	18, 624 18, 624	40 49	(0) (0)	.2	46, 007 46, 007		Plumbing Plumbing and heating combined Roofing and sheet-metal	- 56, 500	18, 000	21, 8	31, 9		1
Marble and tiling	36, 086	50	(6) (6)	.2 .1	108, 280	99.4	Roofing and sheet-metal work Sheet-metal work	- 18, 624 - 18, 624	6, 029 6, 029	7.3	32, 4 32, 4	46, 007 46, 007	
Millwork All classes	1, 272, 722	10, 089	100. 0	1.5	10 3, 336, 939	88.7	Plumbing and gas fitting equipment			i in s			
leneral cuntractors	1 949, 318	19, 089	100.0	2.0	12, 513, 880	87. 3	All classes.	1, 272, 722	115, 274	100. 0	9, 1	8, 336, 939	
Building Building not specialized Street paying	$168, 544 \\ 168, 544 \\ 44, 135$	18, 989 18, 989 100	99, 5	11.3 11.3 .2		74, 9 78, 8 97, 7	General contractors	4 949, 318 168, 544	800 800	. 7 . 7 . 7	. 1 . 5	\$ 2, 513, 880 550, 905	7
Composition board					100,021		Building Building not specialized Subcontractors		800 800 114, 474		. 6	550, 905 \$ 828, 059	7
All classes	1, 272, 722	20, 266	100. 0	1.6	8, 336, 939	88.7	Heating and plumbing	1 211, 754	114, 416 76, 416	99, 3 66, 3	54. 0 66. 6	444,809 234,554	្រទ
Building Building not specialized	4 949, 318 168, 544 168, 544	3, 145 3, 145 3, 145	15.5 15.5 15.5	1.9	³ 2, 513, 880 550, 905 550, 905	87.3 74.9 78.8	Plumbing and heating combined Roofing and sheet-metal work	56, 500	38, 000	33. 0	67. 3	102, 500	0
nbcontractors. Heating and plumbing Pipe covering. Roofing and sheet-metal	4 323, 404 4 211, 754 20, 774	17, 121 16, 158 16, 158	84.5	5.3 7.6 77.8	⁸ 823, 059 444, 899 69, 845	93, 9 95, 5	Sheel-metal work	18, 624 18, 624	58 58	.1	. 3	46, 007 40, 007	9 9
work Sheet-metal work Marble and tiling	18, 624 18, 624 36, 086	908 908 55	$\begin{array}{c} 4.5 \\ 4.5 \\ .3 \end{array}$	4.9 4.9 .2	46, 007 46, 007 103, 280	92, 4 92, 4 99, 4	Sand, gravel, stone, slag, cinders, etc. ¹						
Hardware, rough and finished					100, 100	01. 1	All classes	4 8, 677, 117	958, 305	100.0 97.0	11 05	33, 119, 166 22, 437, 131 15, 134, 690	
All classes	1, 272, 722	33, 060	100, 0	2.6	3, 336, 939	88.7	Building Building not specialized ³ Commercial building only	5, 787, 788 5, 004, 032	402, 748	$ \begin{array}{c} 40.8 \\ 36.3 \\ \end{array} $	7.0 7.2	15, 134, 890 13, 102, 863 1, 449, 474	6
eneral contractors	4 949, 318 168, 544	32, 790 7, 590	99, 2	3. 5 4. 5	\$ 2, 513, 880	87.3	Manufacturing building	595, 140 21, 002	40, 075 2, 200	4.1	0.7 10.5	1, 449, 474	51 64
Building Building not specialized Highway Waterworks	163, 544 168, 544 202, 474 511, 500	7, 590 200 25, 000	23. 0 23. 0 . 6 75. 6	4.5 4.5 .1 4.9	550, 905 550, 905 458, 393 1, 315, 000	74.9 79.8 85.2 90.9	only Residential building only Highway Bridge and culvert Grading	167,014	2, 157 337, 079 61, 540 2, 024	$ \begin{array}{c} 2 \\ 34.1 \\ 6.2 \\ 2 \end{array} $	1.3 45.3 6.4 47.6	520, 853 2, 240, 060 1, 928, 155 101, 238	60 72 98
ubcontractors	4 323, 404	270	. 8	. 1	4 823, 059	93, A	Street paving Dam and reservoir	4, 255 102, 515 696, 249	27, 755 111, 359	2.8 11.3	27.1 16.0	346, 971 1, 605, 000	82 84 93
work Sheet-metal work Marble and tiling	18, 624 18, 624 36, 080	235 235 35	. 7 . 7 . 1	1, 3 1, 3 , 1	46, 007 46, 007 103, 280	92.4 92.4 99.4	Railroad Subcontractors	175, 632	15,800 29,783 8 475	1.6 3.0 .9	9,0	581,017	100
Paints, varnishes, glass				·			Concreting Heating and plumbing Heating and plping Plumbing	1,802,043 551,819	200 250 10 8, 452	(6) (6) (6)		113, 045 3, 315, 352 1, 020, 240 1, 526, 781 111, 500 764	99
· (-	1, 272, 722	38, 707	100. 0	3, 0	3, 336, 939	88.7	Plastering and lathing	200, 080	10 3, 452 5, 990	(*) .3 .6	(⁰) 6.8) 2 0	1, 526, 781 111, 500 764, 508	98 100 95
eneral contractors Waterworks	4 949, 318 511, 500	500 500	$1.3 \\ 1.3$. 1	2, 513, 880 1, 315, 000	87, 3 90, 9	Marble and tillng Soundproofing Flooring, n. e. s	35, 640 456, 175 107, 645	9, 293 300	(6) (6)	2.9 1.3 2.0	1,059,457	70 100 100
beontractors Painting and decorating Glass and glazing Marble and tiling	4 323, 404 24, 470 18, 000 36, 086	38, 207 24, 470 18, 550 187	98.7 63.2 35.0 .5	11.8 100.0 75.3 .5		93.9 100.0 100.0 99,4	Flooring, n. e. s Brick (face, common, fire, paving, etc.)	13, 300	1, 540	2	11.6	107, 840	100
Roofing and sheet metal		1920-0					All classes	13, 831, 836	237, 152	100.0	1.7	3, 119, 166	80
All classos	1, 272, 722	24, 625	100. 0	1.9	8, 336, 939	88.7	General contractors ¹	4 8, 677, 117	224, 606 185, 852	94.7	2.64	22, 437, 131 15, 134, 690 13, 102, 863	73
Building Building not specialized	4 949, 318 188, 544 168, 544	12, 418 12, 418 12, 418	50, 4 50, 4 50, 4	1.3 7.4 7.4	2, 513, 880 550, 905 550, 905	87, 8 74, 9 78, 8	Building not specialized J. Commercial building only. Manufacturing building	5, 787, 788 5, 004, 632 595, 140	185, 852 172, 792 7, 282	78,4 72,9 3,1	1,2	1, 449, 474	67 68 59
bcontractors	4 323, 404 4 211, 754 20, 774	12, 207 1, 702 1, 702	40. 6 6. 9 6. 9	. .		93, 9 95, 5	Residential building only Highway Bridge and culvert	$\begin{array}{c} 21,002\\ 167,014\\ 744,445\\ 966,235\\ 175,632\end{array}$	2,800 2,978 4,517 6,137 2,100	1.2 1.3 1.9 2.6	1 8	62,000 520,353 2,240,060 1,928,155 581,017	64 66 72 98
Pipe covering Roofing and sheet-metal work Sheet-metal work See footnotes at end of table.	18, 624 18, 624	10, 505 10, 505	42. 7 42. 7	56, 4 56, 4	46, 007 46, 007	92, 4 92, 4	Railroad Central station, light and power plant	178, 632 200, 000	3, 100 25, 000	1, 3 10, 5	1.8 12.5	500,000	

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TABLE 10.—COMPARISON OF COST OF DESIGNATED MATERIALS FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929, WITH COST OF MATERIALS AND VALUE OF CONSTRUCTION BUSINESS— Continued

	· .	COST OF I MAT	ESIGN ERIAL	ATED		Indi-			COST OF I MAI	ERIAL	ATED		Indicate
			Per ce	nt of		cated per cent		Cost of all		Per ce	nt of	Malmo of	per
KIND OF MATERIAL AND CLASSIFICATION OF ESTAB- LISHMENTS	Cost of all materials distrib- uted by kind	Amount	Total cost	Cost of all dis- tributed ma- terials	Value of construc- tion business	of all busi- ness done by own force ¹	KIND OF MATERIAL AND CLASSIFICATION OF ESTAB- LISHMENTS	materials distrib- uted by kind	Amount	Total cost	Cost of all dis- tributed ma- terials	Value of construc- tion business	of a bus nes don by own force
MINNEAPOLIS-Continued							MINNEAPOLIS-Continued	-				6 (C. 0	
Brick (face, common, fire, paving, etc.)—Con.							Structural steel						
	4\$5, 154, 219 44, 143	\$12, 546 3, 540	5.3 , 1.5		\$\$10,682,035 113,045	100 0	All classes General contractors ³					\$33, 119, 166 \$22, 437, 131	
Subcontractors Concreting Heating and plumbing Heating and piping Plumbing Masonry Steel erection	4 1, 802, 043 551, 819 911, 591 50, 896 35, 640	3, 540 3, 010 3, 000 10 4, 644 1, 352	1.3 1.3 (⁶) 2.0	.2 .5 (⁵) 9.1 3.8	⁵ 3, 315, 352 1, 020, 240 1, 526, 781 111, 500	99.1 98.8 98.9 100.0 70.3	General contractors ⁱ Building_not specialized ⁱ Commercial building only. Residential building only. Highway Bridge and culvert Dam and reservoir Railroad	5,787,788 5,004,632 595,140 167,014 744,445 066,235	113, 717 98, 176 14, 593 948 17, 266 540, 138	10.2 1.5 .1 1.8	2.0 2.0 2.5 .6 2.3 55.9	⁵ 22, 437, 131 ⁵ 15, 134, 690 13, 102, 863 1, 449, 474 520, 353 2, 240, 060 1, 928, 155 1, 600	0 67. 3 68. 4 59. 3 60. 3 60. 5 98. 5 98.
Tile, facing, terra cotta, floor, and wall						:	Dam and reservoir	696, 235 696, 249 175, 632	43, 257 21, 000	4.5 2.2	12, 0	581,017	7 100
All classes			100.0	2.5	33, 119, 166	80.8	Subcontractors Heating and plumbing	4 5, 154, 219 4 1, 802, 043	224, 752 140 140	()	4.4 (⁶) (⁶) 71.4	10, 682, 035 3, 315, 352 1, 520, 781	5 98. 2 99. 1 98.
General contractors ^a Building	4 8, 677, 117 4 5, 787, 788 5, 004, 632 595, 140 167, 014	142, 440 140, 810 139, 414 554 842 1, 630	40.3 39.9 2	1.6 2.4 2.8 .1	⁸ 22, 437, 131 ⁵ 15, 134, 690 13, 102, 863 1, 449, 474 520, 353 1, 928, 155	73, 6 67, 4 68, 9 59, 9 66, 4 98, 2	Subcontractors Heating and plumbing Plumbing Steel erection Ornamental iron Metal work, n. e. s Reinforcing steel	35, 640 1, 287, 312 217, 443	25, 461 197, 000 2, 151	20.5	71.4 15.3 1.0	1, 815, 619	2 70. 100. 100.
Subcontractors			59.2	4.0	¹ 10, 682, 035	98.6	All classes			I		33, 119, 166	_
Marble and tiling Cut stone, granite and marble	456, 175	206, 924	59, 2	45.4	1, 059, 457	100, 0	General contractors ³ Building Building not specialized ³ Commercial building only.	4 8, 677, 117 4 5, 787, 788 5, 004, 632 595, 140	568, 969 322, 223 293, 356 27, 541	50.4 51.4 4.8	6.6 5.6 5.9 4.6	⁴ 22, 437, 131 ⁵ 15, 134, 600 13, 102, 863 1, 449, 474 520, 353 2, 240, 653	1 73 0 67 8 68 4 59
All classes	13, 831, 336	415, 031	100. (8.0	33, 119, 166	80, 8			93, 633	16.4	12.0		
General contractors ¹ Building Building not specialized ¹ Commercial building only Residential building only	4 8, 677, 117 4 5, 787, 788 5, 004, 632 595, 140 167, 014	213, 386 16, 686	55.5 51.4 4.0	4.3	⁵ 22, 437, 131 ⁵ 15, 134, 690 13, 102, 863 1, 449, 474 520, 353	68.9 59,9	Residencia binding ony Highway Bridge and culvert Street paving Dam and reservoir Railroad		18, 950 41, 559 3, 680	7.3	2.1	346, 971 1, 605, 000 581, 017	
Highway Bridge and culvert	- 744, 442 966, 235	2, 150 177	(0)	(*)	2, 240, 060 1, 928, 155	72. 0 98. 2	Subcontractors Concreting Steel erection	44, 143 35, 640	1, 350 936	.2	(6) 3.1 2.6	^{\$} 10, 682, 035 113, 045 829, 902	5 100 2 70
Subcontractors Concreting Marble and tiling	4 5, 154, 219 44, 142 456, 175	10U 10U	(6)	.4	^{\$} 10, 682, 035 113, 045 1, 059, 457	100.0	Metal doors, windows and trim					00 110 100	0 00
Cement ¹							All classes		195, 147 84. 648			\$3, 119, 160 \$22, 437, 131	
All classes	- 13, 831, 336	1, 257, 922	100.0	9.1	33, 119, 16 6	80. 8	General contractors ³ Building Building not specialized ³ - Commercial building only.	4 5, 787, 788 5, 004, 632	81, 433 76, 831	41.7 39.4	1.4 1.5	⁵ 22, 437, 131 ⁵ 15, 134, 690 13, 102, 863 1, 449, 474	0 67.
General contractors ³ Building Building not specialized ³ Commercial building only.	4 8, 677, 117 5, 787, 788 5, 004, 632 595, 140	1, 166, 920 620, 224 555, 669 52, 835	92, 8 49, 3 44, 2 4, 2	10.7	⁵ 22, 437, 131 15, 134, 690 13, 102, 863 1, 449, 474	67.4 68.9	Residential building only. Highway Dam and reservoir	167, 014 744, 445 090, 249	3, 545 1, 057 1, 420 1, 795	1.8 .5 .7 .9	.0	2, 240, 060 1, 605, 000	0 72 0 93
Manufacturing building only	21,002	6, 902 4, 818	!		50A 020	68 1	Subcontractors Roofing and sheet-metal work	4 5, 154, 219 4 172, 835	110, 499 1, 365	.7		4 10, 682, 03 5 370, 300	0 99
Manufacturing building only. Residential building only. Highway. Bridge and culvert. Street paving. Dam and reservoir. Railroad. Central station, light and power plant.	- 744, 442 966, 232 102, 512 696, 240 175, 632	67, 244 49, 813 169, 865	17. 5.8 4.(13.8	30.2 7.0 48.0 24.4 11.2	346, 971 1, 605, 000 581, 017	72.0 98.2 84.1 93.4 100.0	Steel erection Metal work, n. e. S	35, 640	1,300	.7	1.0	303, 300 329, 902) 100 2 70 6 100
bouter by municipation		15, 000	1.1	7.8	500, 000	100, 0	All classes	7 13, 981, 986	1, 434, 073	100.0	10.4	*33, 119, 160	8 80
Subcontractors Concreting Heating and plumbing Plumbing Masonry Plastering and lathing Marble and tiling Soundwroefing	4 5, 154, 219 44, 143 1, 802, 043	91,002 18,742 170 170	1.8	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	4 10, 682, 035 113, 045 4 3, 315, 352 1, 526, 781	98.6 100.0 99.1 98.9	General contractors Building Building not specialized Commercial building only.	4 5, 734, 562	424, 729 424, 729 413, 595 11, 134	29, 6 29, 6 28, 8	4.0 7.4 8.4	^{\$} 22, 308, 63 ^{\$} 15, 006, 19 12, 974, 36 1, 449, 47	1 73 0 67 3 69 4 59
MasonryPlastering and lathing Marble and tiling Sound proofing Flooring, n. e. s	50, 896 206, 446 456, 177 107, 643	1 ., 010	3.	5 12.4 4 2.4 8 10.4 1 1.8	500,000 13,045 13,045 1,526,781 1,15,052 1,526,781 1,15,050 1,059,455 1,059,455 1,059,455 1,07,840	100.0 95.8 100.0 100.0	Subcontractors		1.	1		1, 440, 47 10, 682, 03 1, 059, 45 1, 815, 61	
Flooring, n. e. s Plaster, etc.	13, 300) 11,760	. 1	88.9	107,840	, 100.0	Lumber, rough and finished						
All classes	13, 831, 336	5 250, 224	100. (1	33, 119, 166	1.1.1.1	All classes	13, 881, 886	866, 763	100.0	6.8	33, 119, 16	8
General contractors	48 877-117	177, 954	71.				General contractors 3	4 8, 677, 117	859 14	99.1	9.9	⁵ 22, 437, 13 15, 134, 69 13, 102, 86 1, 449, 47	
Building Building not specialized 3 Commercial building only Residential building only Highway Bridge and culvert	-1 167.014	2 166, 900 4, 500 4 3, 740 5 2	66. 1. 1.	(3. 5 5 2. 5 (⁶)	\$ 22, 437, 131 \$ 15, 134, 690 3 13, 102, 868 3 1, 449, 474 2 520, 385 2, 240, 060 3 1, 928, 155	68.9 59.9 66.4 72.0 98.2	Building Building not specialized 3 Commercial building only Manufacturing building only Residential building only.	21,002	1 .		21.4		
Subcontractors	47.000		28.	2 1. 4 7 34. 8 2 1. 4	1, 820, 100 10, 682, 038 764, 508 1 329, 902	98.0 95.8 70.3	Highway Bridge and culvert Street paving	966, 234	5 36,038 5 67,324 5 3,200	4.2 7.8	4, 8 3 7, (1 3, 1	62,00 520,35 2,240,06 1,928,15 346,97 1,605,00	0 7: 5 9: 1 8: 0 9:

TABLE 10.—COMPARISON OF COST OF DESIGNATED MATERIALS FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929, WITH COST OF MATERIALS AND VALUE OF CONSTRUCTION BUSINESS— Continued

		COST OF 1 MAI	DESIGN PERIAL			Indi-			COST OF	DESIGN FERIAL	ATED		Indi-
	Cost of all		Per ce	nt of		cated per cent		Cost of all		Per ce	nt of—		per cent
KIND OF MATERIAL AND CLASSIFICATION OF ESTAB- LISHMENTS	materials distrib- uted by kind	Amount	Total cost	Cost of all dis- tributed ma- terials	Value of construc- tion business	of all busi- ness done by own force ¹	HIND OF MATERIAL AND CLASSIFICATION OF ESTAB- LISHMENTS	materials distrib- uted by kind	Amount	Fotal cost	Cost of all dis- tributed ma- terials	Value of construc- tion business	of all busi- ness done by own force ¹
			T.0	°**						To	C0 1 1 C0		
MINNEAPOLIS—Continued					· · · ·		MINNEAPOLIS-Continued						
Lumber, rough and finished—Continued							Roofing and sheet metal— Continued						
Subcontractors Concreting Henting and plumbing Plumbing Plastoring and lathing Steel erection Marble and tiling Excavating Soundproofing	$\substack{4\$5, 154, 219\\ 44, 143\\ 1, 802, 043\\ 911, 591\\ 206, 446\\ 35, 640\\ 450, 175\\ 1, 500\\ 107, 645 \end{tabular}$	\$7, 618 700 550 170 3, 133 209 1, 500 1, 350	(⁶) (⁶) (⁶) (⁷)	(⁶)	1,059,457 284,625	100.0	Subcontractors. Heating and plumbing. Pipe covering Roofing and sheet metal. Roofing. Sheet-metal work. Steel erection Metal work, n. e. s.	4 \$5, 154, 219 4 1, 802, 043	\$130, 492 3, 851 2, 051 1, 800 116, 781 103, 781 13, 000 712 9, 148	$ \begin{array}{r} 1.5\\ .8\\ .7\\ 45.5\\ 40.4\\ 5.1\\ .3\end{array} $.2 5.2 67.6 71.7 46.4 2.0	61, 684 1, 526, 781 370, 300 303, 300 67, 000 329, 902	99.1
Millwork							Heating and ventilating equipment	1 m	•				
All classes					33, 110, 166		All classes	13, 831, 330	945, 686			33, 119, 166	·
General contractors ³	5,004,032 595,140 167.014	387, 305 32, 407 38, 584	97.0 94.4 78.0 78.0 8.9	. 40.1	⁵ 22, 437, 131 ⁵ 15, 134, 690 13, 102, 863 1, 449, 474 520, 353	73.6 67.4 68.9 59.9 66.4	General contractors ³ Building Building not specialized ³ Residential building only	5, 787, 788 5, 004, 632 167, 014	210, 800 208, 300 2, 500) 22, 3) 22, () 3	3.0 3.0 4.2 3 1.5		$\begin{array}{c} 67.4\\ 68.9\\ 66.4\end{array}$
Highway Bridge and culvert	1	9, 984	2.3	1.0	1, 928, 155		Subcontractors. Heating and plumbing Heating and piping Pipe covering.	4 5, 154, 219 1, 802, 043 551, 819	720,454	1 76.2 35.7	61.2	⁴ 10,682,035 3,315,352 1,020,240	98.6 99.1 98.8
Subcontractors Soundproofing	4 5, 154, 219 107, 645	12, 803 12, 803	3.0 3.0	11. 9	3 10, 682, 035 123, 259	98.6 100.0	Pipe covering. Plumbing	39, 120 911, 591	37,089	3.9	94.8	61, 684	100.0
Hardware, rough and finished				r.	tin ann a'		Plumbing Plumbing and heating combined Automatic temperature	241, 438	112, 869	11.8	46.8	544, 868	99.3
All classes	13, 831, 330	223, 393	100. 0	1.6	33, 119, 166	80, 8	Control Roofing and sheet-metal	58, 075	58, 078	6.1	100.0	ļ '	
General contractor ³		214, 819 198, 519 133, 297	96.2	9 6	⁵ 22, 437, 131 15, 134, 690 13, 102, 863 1, 449, 474	73.6	work Roofing Sheet-metal work Metal work, n. e. s	144,835	1,000		.7 35.7	803,300 67,000	99.7 100.0 97.0 100.0
Manufacturing building		400	.2	1.9	62,000	64.5	Plumbing and gas fitting equipment						
only Residential building only Highway	167,014	2.231	5.9	.3	2, 240, 060	66.4 72.0	All classes 3		1, 204, 124 238, 528			33, 119, 166 522, 437, 131	
Highway Bridge and culvert Dam and reservoir		6,209 7,860	2,8 .3.5	.6 1.1	1, 605, 000	98, 2 93, 4	General contractors ³ Building Building not specialized ³	5, 787, 788 5, 004, 632	212, 149	17.6	3.7	15, 134, 690 13, 102, 863	67.4 68.9
Subcontractors Concreting Heating and plumbing Heating and plping Plumbing	4 5, 154, 219 44, 143	8, 574 100	(0)	.2	³ 10, 682, 035 113, 045	98.6 100.0	Building not specialized 3. Residential building only Highway	744,440	85	(0)	1.5 (⁶) (⁶)	520, 353 2, 240, 060 1, 928, 155	66.4
Heating and plumbing Heating and piping	44, 143 1, 802, 043 551, 819 911, 591	1, 237 1, 212 25	.5	(⁶)	3, 315, 352 1, 020, 240 1, 526, 781 764, 508	99, 1 98, 8 98, 9	Bridge and culvert. Central station, light and power plant	966, 235 200, 000	294 26, 000	2.2		500,000	
Plumbing Plastering and lathing Roofing_ and sheet-metal	206, 446	231	1.1						965, 596	80.2		\$10, 682, 035 \$ 3, 315, 352	
work Sheet-metal work Steel erection Marble and tiling	4 172, 835 28, 000 35, 640 456, 175	5,000 816	2.2	17.9	67,000 329,902	99.7 97.0 70.3 100.0	Subcontractors. Heating and plumbing Heating and piping Plumbing. Plumbing and heating combined.	4 1, 802, 043 551, 819 911, 591 241, 438	965, 596 125, 670 716, 357 123, 569	10.4 59.5	22.8 78.6	1, 020, 240 1, 526, 781	98.8 98.9
Paints, varnishes, glass	E.						Electrical appliances and						an ta Star an
All classes	13, 831, 336	239, 642			33, 119, 166		supplies All classes	13, 831, 336	938, 470	100.0	6.8	33, 119, 166	80.8
General contractors ³ Building Building not specialized ³ Commercial building only. Residential building only. Higbway. Bridge and culvert. Dam and reservoir	4 8, 077, 117 4 5, 787, 788 5, 004, 032 505, 140 167, 014 744, 445 966, 235 696, 249	96, 094 87, 350 3, 216 5, 528 200 7, 078	40.1 36.5 1.3 2.3 .1 3.0	1. 2 1. 7 1. 7 3. 3 (⁰) . 7 . 2	⁵ 22, 437, 131 ⁵ 15, 134, 690 13, 102, 863 1, 449, 474 520, 353 2, 240, 060 1, 928, 155 1, 605, 000	67. 4 68. 9 59. 9 66. 4 72. 0 98. 2 93. 4	General contractors ³ Building Building not specialized ³ Commercial building only. Residential building only. Bridge and culvert Dam and reservoir Central station, light and	* 8, 677, 117 * 5, 787, 788 5, 004, 632 595, 140 167, 014 966, 235 696, 249	287, 993 275, 552 268, 255 6, 242 1, 055 1, 694 5, 747	29,4	3.3 4.8 5,4 1.0 .6 .2 .8	² 22, 437, 131 ⁴ 15, 134, 690 13, 102, 863 1, 449, 474 520, 353 1, 928, 155 1, 605, 000	73.6 67.4 68.9 59.9 66 4 98.2 93.4
Subcontractors Heating and plumbing Heating and plping Plumbing Plastoring and laching Motel Work no.	4 5, 154, 219 4 1, 802, 043 551, 819 911, 591 129, 784 200, 446 217, 443	200 100 129, 784 2	(⁰) 54, 2 (⁶)	2.6 (⁶) (⁰) 100.0	³ 10,682,035 ⁵ 3,315,352 1,020,240 1,526,781 544,945	98.6 99.1 98.8 98.9 100.0	Subcontractors. Electrical Heating and plumbing Plumbing Marble and tiling	200,000 4.5,154,219 629,057 4.1,802,043 551,819 911,591	5,000 650,477 629,057 21,400 9,500 11,900	69.3 67.0 2.3 1.0		500, 000 ⁵ 10, 682, 035 1, 277, 967 ⁵ 3, 315, 352 1, 020, 240 1, 520, 781 1, 059, 457	
Metal work, n. e. s Roofing and sheet metal	411, 110	0,110	, , , , ,		200,130			456, 175	20	(6)	(6)		
All classes	13, 831, 336	256, 831	100.0		33, 119, 166		Elevators, dumb-waiters, and equipment						
General contractors ³ Building Commercial building only_ Residential building only_ Highway Bridge and culvert Dam and reservoir	5, 787, 788 5, 004, 632 595, 140 167, 014	103, 821 96, 099 5, 084 2, 638 137 7, 869	37.4 2.0 1.0 .1 3.1	1.5 1.8 1.9 .9 1.6 (⁶) 2.1	⁶ 22,437, 131 ⁸ 15,134, 690 13,102,863 1,449,474 520,353 2,240,000 1,928,155 1,605,000	73. 6 67. 4 68. 9 59. 9 66. 4 72. 0 8. 2 93. 4	All classes General contractors Building Gommercial building only Subcontractors Metal work, n. e. s	7 13, 831, 336 4 8, 623, 891 4 5, 734, 562 4, 951, 406 595, 140 4 5, 154, 219 217, 443	442, 445 434, 445 534, 445 305, 469 128, 976 8, 000 8, 000	98. 2 98. 2 69. 0 29, 2	5.0 7.6 6.2 21,7	 ⁸ 33, 119, 166 ⁵ 22, 308, 631 ⁵ 15, 006, 190 12, 974, 363 1, 449, 474 ⁶ 10, 682, 035 463, 716 	73.8 67.6 69.1 59.9

TABLE 10.—COMPARISON OF COST OF DESIGNATED MATERIALS FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929, WITH COST OF MATERIALS AND VALUE OF CONSTRUCTION BUSINESS— Continued

		COST OF I MAT)ESIGN 'ERIAL	ATED		Indi-			COST OF I MAT	DESIGN ERIAL	ATED		Indi-
		Ì	Per ce	at of—		cated per	94 - S.			Per ce	nt of—		cated per
KIND OF MATERIAL AND CLASSIFICATION OF ESTAB- LISHMENTS	Cost of all materials distrib- uted by kind	Amount	Total cost	Cost of all dis- tributed ma- terials	Value of construc- tion business	cent of all busi- ness done by own force ¹	KIND OF MATERIAL AND CLASSIFICATION OF ESTAB- LIGHMENTS	Cost of all materials distrib- uted by kind	Amount	Total cost	Cost of all dis- tributed ma- terials	Value of construc- tion business	cent of all busi- ness done by own force 1
MINNEAPOLIS-Contd.							ST. AUL-Continued						
Pipe: Cast-iron, sheet and tube steel, etc.				1			Cut stone, granite and marble						
All classes	7\$13,831,336	\$193, 064	100.0		\$\$ 33,119,166		All classes					\$\$ 16,607,576	
Highway Bridge and culvert	5, 734, 562 4, 951, 406 744, 445 966, 235	4, 992 6, 117	2.6 3.2	(0) (0) .7		80 1	General contractors. Building Building not specialized Commercial building only.	* 2, 088, 291 1, 930, 053 88, 643	120	(*)	12.0 .1	171, 575	72, 3 100, 0
Street paving Central station, light and	102, 515						Subcontractors Marble and tiling	4 1, 455, 178 82, 325	20, 234 20, 234	8.0 8.0	1.4 24.6	8 3, 596, 428 220, 084	100.0
power plant	200, 000 4 5, 154, 219	78, 900	39.8	1.5	510 682 025	0.80	Cement ¹						
Heating and plumbing Heating and piping Plumbing	4 1, 802, 043	76,900	89.8 37.5	4, 3 13, 1	⁶ 3, 315, 352 1, 020, 240 1, 526, 781	99.1 98.8	All classes				~~~~		
Plumbing Wood piling and timber	911, 591	4, 500	2, 3	.5	1, 526, 781	98.9	General contractors ³ Building Building not specialized ³ - Commercial building only	4 4, 612, 807 4 2, 156, 711 2, 007, 473 88, 643	778, 779 154, 103 133, 610 20, 493	95.3 18,9 16.3 2.5	7.1 6.7	\$13, 011, 148 \$5, 193, 937 4, 818, 880 171, 575	71.7 72.0
All classes		198, 192	100.0	1.4	81033,119,166	80.8	Bridge and culvert	896, 864	172, 827 190, 778	21. 1 23. 3	27.0 21.3	2, 969, 897 1, 862, 562	88.6 100.0
General contractors Building Building not specialized	4 8, 623, 891 4 5, 734, 562 4, 951, 406	108, 192 121 121	1	2.3 (⁶) (⁶)	⁵ 22, 308, 631 ⁵ 15, 006, 190 12, 974, 363 1, 928, 155	73.8 67.6 69.1	Street paving Sewer, gas, water, conduit Waterworks	467, 253 184, 400 170, 000	178, 071 57, 000	21.8 7.0	38.1 30.9 15.3	1, 306, 145 532, 114 250, 000	100.0
General contractors Building Building not specialized Bridge and culvert Dam and reservoir Railroad	966, 235 696, 249 175, 632	1, 358 87, 761 108, 952	44.3	12.0	1,605,000	93.4	Subcontractors. Plastering and lathing Marble and tiling	4 1, 455, 178 43, 780 82, 325	1, 520 13, 013	1.6	15.8	153, 340 220, 084	98.7 100.0
Machinery			100.0				Excavating	62, 007	24, 166	3.0	39. 0	555, 204	82.1
All classes				1	81033,119,166		Structural steel All classes	6, 067, 985	524, 240	100.0	8.6	16, 607, 576	83. 2
General contractors Building Building not specialized Commercial building only Dam and reservoir	4 5, 734, 562 4, 951, 406 595, 140 696, 249	191, 537 185, 848 5, 689 26, 664	87.8 85.2 2.0	3. 3 3. 8 1. 0 3. 8	⁵ 22, 308, 631 ⁵ 5, 006, 190 12, 974, 363 1, 449, 474 1, 605, 000	67.6 69.1 59.9 93,4	General contractors ³ Building Building not specialized ³ Commercial building only. Residential building only.	4, 612, 807 2, 156, 711 2, 007, 473	507, 737 309, 698 308, 606 967	96, 9 59, 1 58, 9	11.0 14.4 15.4 1.1	\$13, 011, 148 5, 193, 937 4, 818, 880 171, 575	81.4 71.7 72.0
ST. PAUL		1947 1947 - 1943					Residential building only Highway Bridge and culvert	60, 595 040, 102	28,000	5.3	4.4 18.9	i 2. 969, 897	88.6
Sand, gravel, stone, slag, cinders, etc. ³			-				Street paving	467, 253	539	.1	.1	1, 308, 145	
All classes	6,067,985	754, 718			16, 607, 576 \$13, 011, 148		Subcontractors. Heating and plumbing Heating and piping	4 1, 455, 178 4 663, 203 422, 196	16, 503	3, 1	2.5	⁶ 3, 596, 428 ⁸ 1, 217, 439 740, 250	95.0
General contractors ³ Building Building not specialized ³ Commercial building only	* 2, 156, 711 2, 007, 473 88, 643	148, 660 137, 501 11, 159 198, 130	19.7 18.2	6.9 6.8 12.6	*13, 011, 148 * 5, 193, 937 4, 818, 880 171, 575 0, 000	71.7 72.0 100.0	Reinforcing steel		10,000				
Highway Bridge and culvert	640, 102 896, 864	198, 130 133, 047 66, 739	26.3 17.6 8.8	14,8	1,862,562	88.6 100.0 57.3	All classes					*16, 607, 576	-1
Bridge and culvert Grading Street paving Sewer, gas, water, conduit	467, 253	152,468	20.2	32.6	1,306,145	99.0	General contractors Building Building not specialized Commercial building only	4, 544, 587	423, 127 148, 685 119, 485	99.6 35.0 28.1	7.1	⁶ 12, 827, 748 ⁵ 5, 010, 537 4, 035, 480	72.0
Subcontractors Heating and plumbing	4 1, 455, 178 4 663, 203	19,674	2.6	1, 4 (⁶)	5 3, 596, 428 5 1, 217, 439 740, 256	94.8 95.0	Commercial building only. Highway	640, 102	64, 699	6.9 15.2	32.9	1 171 578	5) 100 A
Heating and piping	422, 196 43, 780	185	(6)	(⁶) (⁶) 5. č	740, 256 153, 340	94.6 98.7	Bridge and culvert	896, 864 79, 197	10,693	2.5	13.5	871, 013	2 100.0 3 57.3 5 99.0
Roofing and sheet-metal	4 244, 967	170 170	(6) (6)	.1	⁵ 554, 573 195, 046	100.0	Street paving Sewer, gas, water, conduit		17,000	4.0	9,2	532, 114	
Roofing Marble and tiling Excavating	78, 625 82, 825 62, 007	12, 481 4, 424	1.7	15.2	2] 220, 084	1 100. 0	Subcontractors Excavating	4 1, 455, 178 62, 007	1,600 1,600	.4	2.6		8 94.8 4 82.1
Brick (face, common, fire, paving, etc.)					1 	•	Lumber, rough and finished	1 · _			{	11 - 11 - 11 - 11 - 11 - 11 - 11 - 11	
All classes General contractors ³	6, 067, 985 44, 612, 807			4 1	16, 607, 576 13, 011, 148	81.4	All classes	6, 067, 985	480, 171	100. 0	7.9	16, 607, 576	83. 2
Building Building not specialized ³ . Commercial building only.	2, 156, 711 2, 007, 473 88, 643	134, 722 131, 492 3, 230	61.8 60.3 1.5 15.4	6. 2 6. 6 3. 6	4, 818, 880 4, 818, 880 171, 575	71,7 72,0 100,0	General contractors ³ Building	2, 156, 711 2, 007, 473	282, 733	99.6 58.9 49.3 2.3 7.3	10.4 13.1 11.8 12.2	18, 011, 149 5, 193, 98 4, 818, 880 171 57	8 81.4 7 71.7 0 72.0
Highway Street paving Waterworks	640, 102 467, 253 170, 000	25, 539	11.7	5. 8	5 1, 306, 145 250, 000	99, 0	Commercial building only. Residential building only. Highway	. 60, 595 640, 105	35, 236 33, 236	2, a 7, 3 6, 9	58.2	203, 48	2 48.3 7 88.6
Subcontractors Heating and plumbing Heating and piping Plastering and lathing	4 1, 455, 178 4 663, 203	9, 314 8, 814 8, 814	4.3 4.0 4.0	. f 1. 3 2. 1	⁵ 3, 596, 428 ¹ 1, 217, 439 740, 256	94.8 95.0 94.6	Sewer, gas, water, conduit	896, 864 467, 253 184, 400 170, 000	130, 392 5, 820 22, 000	27. 2 1. 2 4. 6 . 8	14.5 1,2 12.1 2,4	16, 607, 576 513, 011, 144 5, 193, 93 4, 818, 886 171, 574 205, 48 2, 969, 89 1, 862, 666 1, 306, 144 532, 11 250, 00	2 100.0 5 99.0 4 100.0 0 100.0

See footnotes at end of table.

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TABLE 10.—COMPARISON OF COST OF DESIGNATED MATERIALS FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929, WITH COST OF MATERIALS AND VALUE OF CONSTRUCTION BUSINESS— Continued

		COST OF MA	DESIG TERIAI			Indi-			COST OF MA	DESIGN PERIAL			Indi-
	Cost of all		Per ce	ent of-	-	cated per				Per ce	nt of—		cated per
KIND OF MATERIAL AND CLASSIFICATION OF ESTAB- LISHMENTS	materials distrib- uted by kind	Amount	Total cost	Cost of all dis- tributed ma- terials	Value of construc- tion business	cont of all busi- ness done by own force ¹	KIND OF MATERIAL AND CLASSIFICATION OF ESTAB- LISHMENTS	Cost of all materials distrib- uted by kind	Amount	Total cost	Cost of all dis- tributed ma- terials	Value of construc- tion business	cent of all busi- ness done by own force ¹
ST. PAUL-Continued							ST. PAUL-Continued						
Lumber, rough and finished—Continued							Plumbing and gas fitting equipment						
Subcontractors	⁴ \$1, 455, 178 4 663, 203	\$1, 990	0.4	0.1	4 \$3, 596, 428	94.8	All classes	7 \$6, 067, 985	\$279, 651	100. 0	4.6	\$\$16,607,576	83.2
Heating and plumbing Heating and plping Marble and tiling Excavating	422, 196 82, 325 62, 007	150 150 306 1, 534	(0)	(⁰) (⁰) 2.5	⁶ \$3, 596, 428 ⁶ 1, 217, 439 740, 256 220, 084 555, 204	95.0 94.6 100.0 82.1	General contractors Building Building not specialized Highway	4 4, 544, 387 4 2, 088, 291 1, 939, 053 640, 102	22, 426 19, 826 19, 826 2, 600	7.1	.5 .9 1.0 .4	5, 010, 537 4, 635, 480	81.6 72.0 72.8 88.6
<i>Millwork</i> All classes	⁹ 6, 067, 985	189, 625	100.0	3. 1	10 16,607,576	83. 2	Subcontractors. Electrical Heating and plumbing	$ \begin{array}{c} 4 \ 1, 455, 178 \\ 288, 386 \\ 663, 203 \\ 422, 196 \end{array} $	257, 225 6, 000 251, 225 99, 210	92.0 2.1 89.8	17.7 2.1 37.9	⁵ 3, 596, 428 547, 932 ⁵ 1, 217, 439	94, 8 100, 0 95, 0
General contractors ³ Building Building not specialized ³ Commercial building only	4 4, 612, 807 2, 156, 711 2, 007, 478 88, 643	189, 625 185, 125 166, 950 500	97.0 88.0	8.6	4, 818, 880	81.4 71.7 72.0 100.0	Relectrical Heating and plumbing Heating and piping Plumbing Plumbing and heating combined	204, 626 16, 000	143, 015 9, 000	51.1	69.9	396, 727	96.6
Residential building only Highway	60, 595 640, 102	17,675	9.8	29.2	203, 482 2, 969, 897	48. 8 88. 6	Electrical appliances and supplies						
Roofing and sheet metal							All classes		276, 238	100, 0	4.6	⁸ 16, 607, 576	83. 2
All classes	6, 067, 985	299, 552	100, 0	4.9	16, 607, 576	83. 2	General contractors Building	4 4, 544, 387	69, 352 11, 687	$25.1 \\ 4.2$	1.5	⁵ 12, 827, 748 ⁵ 5, 010, 537	72.0
General contractors ⁸ Building Building not specialized ⁸ Residential building only Highway	4 4, 612, 807 4 2, 156, 711 2, 007, 473 60, 595 640, 102	48, 705 36, 705 30, 334 371 12, 000	12.1	1.7	4, 818, 880 203, 482	81. 4 71. 7 72. 0 48. 3 88. 6	General contractors. Building Building not specialized. Residential building only. Highway. Bridge and culvert. Sewer, gas, water, conduit.	896, 864	10, 204 1, 483 1, 300 48, 965 7, 400	3.7	2.4 .2	4, 635, 480 203, 482 2, 969, 897 1, 862, 562	72.3 48.3 88.6 100.0
Subcontractors Heating and plumbing Heating and piping	4 1, 455, 178 663, 203 422, 196	250, 847 8, 150 8, 150	83.7 2.7 2.7	17.2 1.2 1.9	⁸ 3, 596, 428 ⁵ 1, 217, 439 740, 256	94. 8 95. 0 94. 6	Subcontractors Electrical Pipe: Drain tile, vitrified,	4 1, 455, 178 288, 386	206, 886 206, 886	74.9 74.9	14.2 71.7	^{\$} 3, 596, 428 547, 982	94, 8 100, 0
Roofing and sneet-metal work Roofing Sheet-metal work	244, 967 78, 025 90, 301	242, 607 76, 355 90, 301	. 81. 0	97.1	554, 573 195, 046	100. 0 100. 0 100. 0	concrete, segment tile, corrugated	7.0.017.007	172.005	100.0		810 00 0 000	
Roofing and sheet metal combined	76, 041	76, 041	25.4			100. 0	All classes.		176, 885			⁸ 16, 607, 576 512, 827, 748	
Heating and ventilating equipment All classes	7 6, 067, 985	468, 617	100.0	7.7	⁸ 16, 607, 576	83, 2	General contractors Building Building not specialized Highway Sewer, gas, water, conduit Waterworks	4, 044, 387 4 2, 088, 291 1, 939, 053 640, 102 184, 400 170, 000	157, 65240621, 24611, 000125, 000	.2	(⁸) (⁶) 3.3 6.0 73.5	⁸ 5, 010, 537 4, 635, 480 2, 969, 897 532, 114	72.0 72.3 88.0 100.0
General contractors Building Building not specialized Highway Sewer, gas, water, condult		28, 155 26, 505 26, 505 26, 505 1, 150 500	6.0 5.7 5.7 .1		⁵ 12, 827, 748 ⁵ 5, 010, 537 4, 635, 480 2, 969, 897	81. 6 72. 0 72. 3 88. 6 100. 0	Subcontractors. Heating and plumbing Heating and piping Plumbing. Excavating.	1, 455, 178 663, 203 422, 196 204, 626 62, 007	19, 233 3, 300 3, 000 15, 933	10,9 1,9 ,2 1,7 9,0	1.3	5 3, 596, 428 5 1, 217, 439 740, 256 396, 727 555, 204	94.8 95.0 94.6
Subcontractors Electrical Heating and plumbing Heating and piping	4 1, 455, 178 288, 386 663, 203 422, 196 20, 381 204, 626	440, 462 75, 000 364, 602 279, 685 20, 381 57, 596	94. 0 16. 0 77. 8 59. 7 4. 3 12. 3		⁵ 3, 596, 428 547, 932 1, 217, 439	94. 8 100. 0 95. 0 94. 6 100. 0 96. 6	Bituminous paving mate- rials, tar, asphalt, and oil All classes	^{7 9} 6, 067, 985 4 4, 544, 387	148, 455 148, 455 2, 000 2, 000	100 0 100.0 1.3	3.3	⁸ ¹⁰ 16,607,576 ⁵ 12, 827, 748 ⁵ 5, 010, 537	83, 2 81, 6 72, 0
Plumbing Plumbing and heating combined Roofing and sheet-metal work	16, 000 4 244, 967 78, 625	7, 000 800 800	1.5 .2 .2	43.8 .3 1.0	27, 000 ⁵ 554, 573 195, 046	93.2 100.0 100.0	Building Building not specialized Highway. Bridge and culvert Street paving	4 2, 088, 291 1, 939, 053 640, 102 896, 864 467, 253	2, 000 2, 000 49, 450 64, 552 32, 453	1. 3 33. 3 43. 5 21. 9	.1 7.7 7.2 6.9	4, 635, 480 2, 969, 897 1, 862, 562	72. 0 72. 3 88. 6 100. 0 99. 0

¹ Based upon the difference between the total value of all construction business reported and the value of subcontract work let.
¹ Based opticate 5 of Table 9 on p. 655.
³ Includes operative builders.
⁴ Includes cost of materials reported by establishments which did not include designated material in their distributed lists.
⁴ Includes cost of materials reported by establishments which did not include the designated material in their distributed lists.
⁴ Less than one-tenth of 1 per cent.
⁷ Includes cost of materials reported by operative builders who did not include the designated material in their distributed lists.
⁸ Includes cost of materials reported by operative builders who did not include the designated material in their distributed lists.
⁸ Includes cost of materials reported by operative builders who did not include the designated material in their distributed lists.
⁸ Includes cost of materials reported by subcontracting establishments which did not include the designated material in their distributed lists.
⁸ Includes cost of materials reported by subcontracting establishments which did not include the designated material in their distributed lists.
⁹ Includes construction work reported by subcontracting establishments which did not include the designated material in their distributed lists.
¹⁰ Includes construction work reported by subcontracting establishments which did not include the designated material in their distributed lists.

TABLE 11.-COST OF MATERIALS FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929

[This table is made up in three sections; the second section begins on p. 666, the third section on p. 667]

CLASSIFICATION OF ESTABLISH- MENTS	Total cost of all	COST OF AN TERIAL DI UTED BY	STRIB-	Sand, gravel, crushed stone,	Brick (face, com- mon,	Tile (fire	Tile facing, terra cotta,	Con- crete and	Cut stone, granite	Rip- rap,	Cement	Lime	Plaster,	Strue- tural
54.644 1.5	materials 1	Amount	Per cent of total	slag, cinders, etc.	fire, paving, etc.)	proof- ing)	floor and wall	cinder block	and marble	rub- ble, etc.	-			steel
MINNESOTA.	\$35, 258, 628	825, 679, 137	72.8	2 82, 450, 674	\$873, 157	\$204, 980	\$463, 413	\$125, 770	\$822, 466	\$10,804	\$2,854,689	\$85, 659	\$342, 734	\$1, 726, 754
Operative builders	143, 996	121,646	84.5	1,650	9, 309	50	3, 700	1,000	1,815	213	1, 175	40	3, 500	· 3, 035
General contractors Building Building not specialized Commercial building only Manufacturing building	14, 174, 239 12, 073, 961 1, 163, 493	17, 789, 341 10, 409, 794 9, 114, 952 736, 031	70. 1 73. 4 75. 5 63. 3	2, 369, 552 685, 827 618, 917 53, 434	641, 007 524, 581 489, 356 14, 492	169, 530 169, 191 162, 185 6, 466	216, 961 215, 331 209, 385 5, 104	113, 289 85, 054 63, 227 7, 761	610, 971 608, 644 587, 321 17, 956	7, 986 3, 086 2, 976 110	2, 692, 493 1, 009, 036 892, 118 77, 027	70, 898 64, 356 59, 404 4, 057	240, 369 237, 555 223, 233 6, 357	1, 474, 164 548, 049 522, 538 21, 424
only Residential building only Highway Bridge and cuivert Grading Street paving Sweer, gas, water, conduit Dam and reservoir Waterworks Railroad Foundation Central station, light and power plant.	21,002	$\begin{array}{c c} 21,002\\ 537,809\\ 2,297,410\\ 2,099,816\\ 120,500\end{array}$	100.0 58.7 87.1 76.6 100.0	2,200 11,276 912,298 226,329 83,763	2,800 17,933 38,111 6,287	540 339	842 1,630	4, 200 9, 866 280 889	3, 307 2, 150 177	798 442	6, 902 32, 989 678, 022 302, 885	895 2, 016 144		4, 087 45, 266 790, 175
Street paving Sewer, gas, water, conduit	938, 607 405, 895	731,809 297,486	78.0 73.3	224, 054 44, 217	27,039 1,889			19,066 8,000			307,870 70,715	4, 323 59		4, 231 21, 686
Dam and reservoir Waterworks	786, 249 681, 500 2, 537, 810	696, 249 681, 500 175, 632	88.6 100.0	111, 359 55, 000	15.000					160 3,500	169,865 91,000 19,600			43, 257 21, 000
Foundation Central station, light and power plant.	2, 607, 810 22, 665 346, 480	22, 665 256, 480	6, 0 100, 0 74, 0	1,5, 800 7, 405 3, 500	3, 100 25, 000		·····			. 5, 500	10, 500			21,000
Subcontractors Concreting Electrical	³ 9, 722, 074 156, 418	7, 768, <u>150</u> 98, 968 1, 107, 309	79.9 63.3	79, 472 21, 912	22, 841 3, 540	35, 400	242, 752		209, 680 160	2, 605 355	161, 021 37, 430	14, 721 1, 786	98, 865	248, 555 7, 000
Electrical Heating and plumbing Heating and plping Pipe covering. Plumbing. Plumbing and heating com-	1, 187, 439 4, 248, 192 1, 283, 743	1, 107, 309 3, 157, 894 1, 058, 722	93.3 74.3 82.5	045 435	12,704 12,494	400 400		300			320	1,600 1,600	15	$16,643 \\ 16,503$
Pipe covaring Plumbing	80, 275 1, 608, 069	80,275 1,413,411	100.0 87.9	10	10						170		15	140
Plumbing and heating com- bined Automatic temperature control	1, 218, 030	547, 411	44.9	200	200			300			150			
Control Masonry Painting and decorating	58, 075 93, 896	58,075 50,896	100.0 54.2	3, 452	4, 644	35,000					6, 300	1, 500		
Painting and decorating Glass and glazing Plastering and lathing Roofing and sheet-metal work.	$\begin{array}{c} 264,428 \\ 18,000 \\ 303,282 \end{array}$	254, 428 18, 000 264, 690	96, 2 100, 0 87, 3	100 12, 228	500				1,000		250 6,902	7, 288	98, 319	
Roofing and sheet-metal work. Roofing	652, 660 367, 208	485, 726 272, 760 136, 925	74.4	12, 228 236 170	56						**********			
Roofing Sheet-metal work Roofing and sheet metal combined	197, 411	136, 925 76, 041	69.4 86.4	66	56									
steel erection	30,040	35,640	100.0 96.0	473 27, 187	1,352 45		242, 752	3, 740	208, 520		66, 893	2, 547	483 48	25, 461
Marbie and tiling Excavating Ornamental iron Bridge and culvert Soundproofing Foundation Metal work, n. e. s. Flooring, n. e. s.	63, 507 63, 507 1, 287, 312 19, 300 107, 645 11, 500 217, 443 42, 200	$\begin{array}{r} 674,080\\ 63,507\\ 1,287,312\\ 19,300\\ 107,645\end{array}$	100.0 100.0 100.0	4, 424 6, 975						2, 250	24, 166 5, 625			197,000 300
Bridge and curvert	107,645	11.500	100.0	300				1			1,375			
Metal work, n. e. s Flooring, n. e. s	217, 443 43, 300	217, 443 13, 300	100.0 30.7	1, 540							11, 760			2, 151
DULUTH	1, 867, 346	1, 272, 722	68, 2	2 201, 662	26, 642	7, 800	10, 986	2, 700	19, 111		² 118, 962	2, 863	7, 314	11, 781
General contractors	4 1, 451, 204 5 397, 353	949, 318 168, 544 168, 544	65.4 42.4 47.2	192, 059 12, 912 12, 912	$\begin{array}{c} 25,861 \\ 24,361 \\ 24,361 \end{array}$	7,600		2,000 1,600 1,600	12, 211 12, 211 12, 211		111, 955 17, 879 17, 879	1,530 1,430 1,430		11, 781 10, 464 10, 464
Highway	202,474 212,233	202, 474	100.0 20.8	106, 190	1,500			400	12, 211		18, 576	1,430		817
General contractors Building Building not specialized Highway Street paving Waterworks Foundation	511, 500 22, 665	511, 500 22, 665	100.0 100.0	55, 000 7, 405							65, 000 10, 500			500
Subcontractors Heating and plumbing	⁶ 416, 142 211, 754	323,404 211,754	77.7 100.0	9, 603 200	781 680		10, 986	700	6, 900		7,007 150	1, 333	7, 314	
Heating and piping	19, 680 20, 774 114, 800	19, 680 20, 774 114, 800	100.0 100.0 100.0		680									
Plumbing Plumbing and heating combined	56, 500	56, 500	100.0	200							150			
Painting and decorating Glass and glazing Plastering and lathing	24,470 18,000	24, 470 18, 000	100.0	100					1,000		250	1 047		
Plastering and lathing Sheet-metal work Marble and tiling	14,470 53,624 60,156	14, 470 18, 624 36, 086	$100.0 \\ 34.7 \\ 60.0$	3,824 66 5,413			10, 986	700	5, 900		382 6, 225	1, 275 58	7, 266 48	
MINNEAPOLIS	17, 161, 256	13, 831, 336	80.6	² 988, 088	237, 152	117, 909	349, 364	49, 498	415, 081	5, 156	2 1,257,922	38, 438		960, 130
Operative builders	75, 576	53, 226	70.4	150	2, 809	50	1,000		1, 815	213	275	40	3, 500	175
General contractors Building	10, 945, 459 7, 818, 112	8, 623, 891 5, 734, 562	78.8 73.3	958, 155 402, 598	221, 797 183, 043	82, 459 82, 120	141, 440 139, 810	42, 063 40, 994	230, 670 228, 343	4, 588 486	1, 166, 645 619, 949	28, 810 26, 591	171,640	735, 203 113, 542
Building not specialized Commercial building only Manufacturing building only	6, 471, 507 926, 838 21, 002	5, 734, 582 4, 951, 406 595, 140 21, 002	76.5 64.2 100.0	358, 166 40, 075	169, 983 7, 282	79, 154 2, 666	138, 414 554	40, 994 25, 127 7, 701 4, 200	211, 571 16, 686	376 110	555, 394 52, 835 6, 902	25, 782 809	163, 400 4, 500	98, 001 14, 593
Residential building only	398, 765	167, 014	41, 9	2, 200 2, 157	2, 800 2, 978	300	842	3, 966	86		4, 818		3, 740	948

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TABLE 11.—COST OF MATERIAL FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929-Continued

CLASSIFICATION OF ESTABLISH-	Total cost of all	COST OF A TERIAL DI UTED BY	STRIB-	Sand, gravel, crushed stone,	Brick (face, com- mon,	Tile (fire	Tile, facing, terra cotta,	Con- crete and	Cut stone, granite	Rip- rap, rub-	Cement	Lime	Plaster,	Struc- tural
MENTS	materials 1	Amount	Per cent of total	slag, cinders, etc.	fire, paving, etc.)	proof- ing)	floor, and wall	cinder block	and marble	ble, etc.		Line	etc.	steel
MINNEAPOLIS-Contd.										-				
General contractors—Contd. Highway Bridge and culvert Grading Street paying	\$932, 463 1, 016, 235 4, 253 102, 515	\$744, 445 966, 235 4, 253 102, 515	79.8 95.1 100.0 100.0	\$337,079 61,540 2,024 27,755	\$4, 517 6, 137	\$339	\$1,630	\$280 789	\$2, 150 177	\$442	\$225, 174 67, 244 49, 813	\$2, 016 144	\$2 2, 812	\$17, 266 540, 138
Bridge and curver Street paving Dam and resorvoir Railroad Central station, light and power plant	696, 249 175, 632 200, 000	696, 249 175, 632 200, 000	100, 0 100, 0 100, 0	111, 359 15, 800	3, 100 25, 000					160 3, 500	169, 865 19, 600 15, 000	59		43, 257 21, 000
Subcontractors Concreting Electrical Heating and plumbing Heating and piping Pipe covering. Plumbing	76, 140, 221 99, 621 651, 447 2, 104, 143	5,154,219 44,143 629,057 1000,040	83.9 44.3 96.6	29, 783 8, 475 260	12, 540 3, 540	35, 400 400	206, 924			355 355	91, 002 18, 742	9, 588 1, 786	72, 270	224, 752 140
Heating and plumbing Heating and piping Pipe covoring Plumbing	2, 104, 143 616, 890 39, 120 980, 249	1, 802, 043 551, 819 39, 120 911, 591	85, 6 89, 5 100, 0 93, 0	200 250 10	3, 010 3, 000	400 400					170 170	1, 250 1, 250		140 140
Plumbing Plumbing and heating com- bined Automatic temperature control		241, 438	58.9			•••••			- -					
control Masonry Painting and decorating Plastering and lathing	58,075 93,896 129,784 245,032	58, 075 50, 896 129, 784 206, 446 172, 835	$ \begin{array}{r} 100, 0 \\ 54, 2 \\ 100, 0 \\ 84, 3 \end{array} $	3, 452 5, 990	4, 644	35, 000					6, 300	1, 500	71, 787	
Roofing and sheet-metal work- Roofing	$\begin{array}{r} 267,283\\ 239,283\\ 28,000\\ 35,640\\ \end{array}$	172, 835 144, 835 28, 000	64.7 60.5 100.0											
Masonry Painting and decorating Plastering and lathing Roofing and sheet-metal work. Sheet-metal work. Steel creetion Marble and tiling. Excavating. Ornamental iron.	35, 640 456, 175 1, 500 1, 287, 312	35, 640 450, 175 1, 500 1, 287, 312	100.0 100.0 100.0	473 9, 293	1, 352		206, 924		182, 386		47, 855	2, 489	483	25, 461
Ornamental iron Soundproofing. Metal work, n. e S Flooring, n. e. S	$1,287,312 \\107,645 \\217,443 \\43,300$	1, 287, 312 107, 645 217, 443 13, 300	100, 0 100, 0 100, 0 30, 7	300 1, 540							1, 375 11, 760			197, 000 2, 151
ST. PAUL	10, 088, 470	6, 067, 985	60. 1	2 754, 718	218, 169	54, 916	60, 182	56, 692	253, 106	8, 048	² 817, 478	25, 869	41, 483	524, 240
Operative builders	68, 420	68, 420	100.0	1, 500	6, 500		2, 700	1,000			900			2, 860
Commercial building only	8, 106, 473 2, 543, 412 2, 338, 172 107, 346 97, 895 651, 459	$\begin{array}{r} 4,544,387\\ 2,088,291\\ 1,939,053\\ 88,643\\ 60,595\\ 640,102 \end{array}$	56. 1 82. 1 82. 9 82. 6 61. 9 98. 3	733, 544 147, 160 136, 001 11, 159 198, 130	202, 355 128, 222 124, 992 3, 230 33, 594		82, 640 32, 640 28, 640 4, 000	52, 646 25, 980 25, 920 60	232, 872 232, 872 232, 752 120	798	777, 879 153, 203 132, 710 20, 493	21, 569 17, 346 14, 998 2, 348	22, 202 22, 202 22, 202	504, 877 306, 838 305, 746 967 125 28, 000
Bridge and culvert. Grading. Street paving. Sewer, gas, water, conduit	$\begin{array}{c} 1,476,864\\ 79,107\\ 467,253\\ 247,830\\ 170,000 \end{array}$	896, 864 79, 197 467, 253 184, 400 170, 000	60.7 100.0 100.0 74.4 100.0	133, 047 66, 739 152, 468 36, 000	25, 539			18, 666			190, 778 178, 071	4, 228		169, 500 539
Waterworks Central station, light and power plant	170,000	18, 280	16.9											
Subcontractors Electrical Heating and plumping	1, 913, 577 313, 386 1, 074, 602	$\substack{1,455,178\\288,386\\663,203\\422,196}$	76.0 92.0 61.7	19, 674 185	9, 314 8, 814		24, 842	3, 046	20, 234	2, 250	38, 699	3, 800 	19, 281 15	16, 503
Heating and piping Pipe covering Plumbing_and heating combined	515, 146 20, 381 310, 626	422, 196 20, 381 204, 626	82:0 100.0 65.9	185	8, 814							350	15	16, 503
Plastering and lathing Roofing and sheet-metal work.	228, 449 69, 010 43, 780 256, 967 78, 625 90, 301	16, 000 59, 010 43, 780 244, 967 78, 625 90, 301	7.0 85.5 100,0 95.3 100.0 100.0	2, 414 170 170	500						1, 520	3, 450	19, 200	
Sheet metal work. Roofing and sheet metal work combined. Marble and tiling. Excavating. Foundation.	88, 041 82, 325 62, 007 11, 500	76, 041 82, 325 02, 007 11, 500	86.4 100.0 100.0 100.0	12, 481 4, 424			24, 842	3, 046	20, 234	2, 250	13, 013 24, 166			

See footnotes at end of table.

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TABLE 11.-COST OF MATERIALS FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929-Continued [See note at head of this table]

Classer Animals Animals <t< th=""><th></th><th></th><th></th><th></th><th>[Se</th><th>e note at he</th><th>ad of this tab</th><th>ole]</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>					[Se	e note at he	ad of this tab	ole]							
Jpensive industriant Jack Out	CLASSIFICATION OF ESTABLISH- MENTS		iron, miscel- laneous, exclud-	doors, windows,	and wire lath and	mental metal	Lumber, rough and finished	shingles, and		sition	proof- ing mate-	ware, rough and	var- nishes, and	and sheet	Fin- ished floor- ing, n. e. s.
James 2 Light of the second seco	MINNESOTA	\$1, 838, 922	\$139, 847	8338, 037	\$181, 880	\$1, 505, 958	82, 252, 342	\$100, 993	8961, 647	\$177, 703	\$93, 886	\$419, 564	\$480, 134	\$708, 283	\$62, 436
Billing of the sector	Operative builders	255		600	800		41, 573	460	22, 315	2,000	24	6, 639	2, 500	2,750	4,050
Bild Ward Bild Ward <t< td=""><td>Commercial building only. Manufacturing building</td><td>611, 429 551, 672 58, 031</td><td>41, 175 31, 945 31, 585 360</td><td>222, 278 216, 396</td><td>48,969 42,469</td><td>477, 518</td><td>1, 021, 389 181, 608</td><td>90,691</td><td>908,960</td><td>66.104</td><td>26,819</td><td>340, 981 258, 262 54, 988</td><td>184, 948 166, 604</td><td>265, 487 230, 919 217, 448 7, 027</td><td>53, 919 47, 859 43, 007 3, 848</td></t<>	Commercial building only. Manufacturing building	611, 429 551, 672 58, 031	41, 175 31, 945 31, 585 360	222, 278 216, 396	48,969 42,469	477, 518	1, 021, 389 181, 608	90,691	908,960	66.104	26,819	340, 981 258, 262 54, 988	184, 948 166, 604	265, 487 230, 919 217, 448 7, 027	53, 919 47, 859 43, 007 3, 848
Line und tem Unit. 41,459 1,708 1,708 5,700 900 7,800 1,008 14,492 Constraint 5,600 900 7,800 1,008 14,492 Down plant 600 900 7,800 1,008 14,492 Diver plant 100 900 7,800 14,000 1,007 500 Description 100 900 7,800 14,000 1,007 500 900 1,007 500 900 1,007 500 900 1,007 500 900 1,007 500 500 900 5,000 900 5,000 900 5,000 900 5,000 900 5,000 900 5,000 900 5,000 900 5,000 900 5,000 900 5,000 900 5,000 900 900 900 900 900 900 900 900 900 900 900 900 900 900 900 900 900 <th< td=""><td>Bridge and culvert</td><td>258, 525</td><td>2, 731 500</td><td>1, 630</td><td>120</td><td>280</td><td>216, 877</td><td></td><td>6,000</td><td>75</td><td>1.227</td><td>27, 331 9, 297</td><td>13, 211 8, 253 7, 453</td><td>12, 187 7, 939</td><td>6,060</td></th<>	Bridge and culvert	258, 525	2, 731 500	1, 630	120	280	216, 877		6,000	75	1.227	27, 331 9, 297	13, 211 8, 253 7, 453	12, 187 7, 939	6,060
Partmetion S. 600 S.	Waterworks	41, 559		220 1, 795			48,743		1,356		209	8,615 7,860	538 1,068 500	14, 492	
ubcontrol construit 13, 600 96, 672 111, 61 31, 600 2, 613 7, 204 6, 721 12, 803 9, 721 20, 72 603 1, 723 5, 72 6, 721 12, 803 16, 723 15, 72 603 1, 723 6, 721 12, 803 16, 723 15, 72 603 1, 723 6, 721 12, 803 16, 723 15, 72 603 1, 723 6, 721 12, 803 16, 723 15, 72 603 1, 723 6, 721 12, 803 16, 723 7, 724 603 1, 12, 803 10, 723 1, 72 603 16, 721 15, 803 16, 723 1, 72 603 16, 721 11, 72 603 16, 721 16, 723 17, 723 17, 724 72, 724	Foundation Central station, light, and	3, 500					600								
Pathering and decorating	Subcontractors Concreting Heating and plumbing Heating and plumbing	16,698 11,150	4, 500 98, 672 100	111, 514	131, 991 1, 000 2, 914	1, 016, 735	17, 204 5, 100 800 150			16, 158	200	$11,874 \\ 1,600 \\ 1,237 \\ 1,212$	650		
Stede greecitor. 960 960 9.00 9.100	Pipe covering Plumbing Plumbing and heating com- bined Painting and decorating		100		2, 914		550						100 350	1,800	
Stede greecitor. 960 960 9.00 9.100	Glass and glazing Plastering and lathing Roofing and sheet-metal work Roofing Sheet-metal work			1,365 1,365	100 127, 491	553	176 46 46	9, 741		1, 349 1, 808 900	314 39, 957 39, 789	6, 235 1, 000	13, 550 27 100	415,483	
Mdtal Work, n.e.s. $27,667$ $106,184$ $1000000000000000000000000000000000000$	Roofing and sheet motal combined													76.041	
Mdtal Work, n.e.s. $27,667$ $106,184$ $1000000000000000000000000000000000000$	Marble and tiling Excavating	10 1.600	5	1,015	486	6, 870	565								
Mdtal Work, n.e.s. $27,667$ $106,184$ $1000000000000000000000000000000000000$	Ornamental iron Bridge and culvert	3,000	81,000				3,000					400			
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Soundproofing Metal work, n. e. s		17, 567	108, 184									5, 116	9, 148	4, 467
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		[5					j		[1 <u></u>				25
Promotation 3, 500	Building Building not specialized Highway	5,064 5,064 46,399		1, 375 1, 375		1, 629 1, 620	26, 597 26, 597		18, 989 18, 989	3, 145 3, 145	95 95 685	7,590 7,590		12, 418 12, 418	25 25 25
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $							360,000					25, 000	500		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Subcontractors Heating and plumbing Pipe covering Painting and decorating	10	5	1, 015	4, 977 2, 914 2, 914	1, 373	96			17, 121 16, 158 16, 158	1, 735			12, 207 1, 702 1, 702	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Glass and glazing Plastering and lathing Sheet-matel work				100 1, 723								13, 550		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Marble and tiling	10	5	1, 015	240	820	50			55	1, 567	35	187		
$ \begin{array}{c} \begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	Operative builders	- <u> </u>	101, 729		133, 805	2 1, 434, 073		10, 418		106, 353					23, 199
Highway. 93,633 2,731 1,420 1,420 1,500 367 2,231 200 7,859 1,500 Street paving. 13,950 13,050 13,705 13,705 14,492 14,659 36,038 1,003 347 2,231 200 7,859 14,492 14,492 14,659 14,659 14,492 14,659 14,492 14,659 14,492 14,659 14,492 14,003 14,492 14,003 14,492 14,003 14,492 14,003 14,492 14,003 14,492 14,003 14,492 14,003 14,492 14,003 14,492 14,492 14,003 14,492 14,003 14,492 14,003 14,492 14,003 14,492 14,492 14,492 14,492 14,492 14,492 14,003 14,492 14,49	General contractors Building Building not specialized Commercial building only Manufacturing building	321,968 293,101	$\frac{331}{221}$	81 333 1	17,687 17,437	424, 729 413, 595	691, 267 445, 852 165, 842	5, 677 5, 077 4, 137 200	395, 581 324, 590	16, 143	16, 733 15, 208 14, 707 401	196, 280 131, 058 51, 598	93, 594 84, 850	103, 221 95, 499	18, 732 13, 132 10, 612 2, 520
Rairond 3, 680 3, 680 110, 499 116, 118 1, 009, 344 7, 618 4, 741 12, 803 89, 382 39, 183 8, 574 135, 202 130, 492 4, 46 Concreting 1, 360 100 550 500 500 1, 212 200 3, 851 200 1, 212 200 3, 851 200 1, 212 200 3, 851 200 1, 212 200 3, 851 200 1, 212 200 3, 851 200 1, 212 200 3, 851 200 1, 212 200 3, 851 200 1, 850 200 1, 850 200 1, 850 200 1, 850 200 1, 850 200 1, 850 200 1, 850 200 1, 850 200 1, 850 200 1, 850 200 1, 850 200 1, 850 200 1, 850 200 1, 850 1, 850 200 1, 850 200 1, 850 200 1, 850 200 1, 850 200 1, 850 200 1, 850 200 1, 850 200 1, 850 200 200 200	Bridge and culvert	93, 633 93, 924 13, 950		1, 420			75, 073 36, 038 67, 324 3, 200	·	1,500	828	367 602 347	13, 224 2, 231 6, 209	7,078	7,889	5, 600
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Subcontractors	3, 680 2, 286	98, 667		116, 118 1, 000		7, 618 700	4, 741	12, 803	89, 382 200	39, 183 200	8, 574 100	135, 202	130, 492	4, 467
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Pipe covering												200		
Sheet-metal work 6,000 13,000 Steel erection 950 32 209 1,150 816 712 1,190 Excavating 1,009,312 1,009,312 12,803 88,633	Plumbing Painting and decorating Plastering and lathing Roofing and sheet-motal work.			1, 365 1, 365	115, 118		176	4, 741		549	289 38, 689	231 5,000		116, 781	
Ornamental iron	Sheet-metal work Steel erection Marble and tiling Excavating	936					209					816		13,000	
	Soundproofing			108, 184		1,009,312	1, 350		12, 803	88, 633			5, 110	9, 148	4, 467

See footnotes at end of table.

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TABLE 11.—COST OF MATERIALS FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929— Continued

[See note at head of this table]

					[Sec	note at he	ead of th	is table]						•		
CLASSIFICATION OF ESTABLISH- MENTS	Reinfo ing st		Cast iron, miscel laneous exclud ing pip	s, window - and trin		Orna- mental metal work	Luml rough finisl	and sh	aths, ingles, and hakes	Mill- work	Compo- sition board	Water- proof- ing mate- rials	Hard- ware, rough and finished	Paints, var- nishes, and glass	Roofing and sheet metal	Fin- ished floor- ing, n. e. s.
	\$424.	727	\$31, 19	2 862, 554	1 816, 863	\$59, 828		. 171	88, 534	\$189, 625	\$22, 641	\$26, 662	\$66. 048	\$85, 380	\$299. 552	\$14, 380
Operative builders								, 000	460	9, 600	2,000		4,400		2, 150	
General contractors. Building Building not specialized Commercial building only. Residential building only. Highway. Bridge and culvert.	148 119 29	127 685 485 200 699 030	31, 19 26, 69 26, 69	2 61, 84 2 61, 39 45	4 5,047 4 4,547 0 500	53, 810 53, 530 53, 389 141 280	253 207 - 10	, 681 , 816	960	180,025175,525157,35050017,6754,600	18, 566 18, 491 17, 861 630 75	26, 337 4, 162 3, 962 200 175 22, 000	61, 518 56, 320 52, 880 1, 100 2, 340 800 500	25, 605 17, 318 15, 918 500 900 8, 053 100	46, 555 34, 555 34, 184 371 12, 000	254 460
Residential building only Higbway Bridge and culvert Grading Street paving Sewer, gas, water, conduit Waterworks Central station, light and power plant		, 098 , 020 , 000	4, 50	0				, 820 , 000 , 000					898 3,000	134		
Subcontractors Heating and plumbing Heating and piping Painting and decorating	1	, 600			10, 896	6, 018	1 	150 150 150 	5,000		2, 075	325		59, 775 59, 010 25	8, 150 8, 150	
Central station, light and power plant											900 900	300 300		100 100	242, 697 76, 355 90, 301	
Rooing and sheet metal work combined. Marble and tiling. Excavating.		000			248	6, 018	- 1	306			375			640		
CLASSIFICATION OF ESTABLISH- MENTS	Screens, shades, awn- ings, etc.	and Ia eq	ating venti- ting uip- ient	Plumbing and gas fitting equip- ment	Electrical appliances and supplies	waitore	Pipe: Drain tile, vitrified concreto etc.		Wire	s, minou ls, pavin mate	g and	mixed con-		Freight haul- ing, or truck- ing to job	Metal	Miscel- lancous
MINNESOTA	\$55, 975	81, 7	780, 877	\$1, 870, 521	\$1, 411, 511	\$458, 467	\$239, 198	\$240, 84	2 \$83, 2	56 \$183, 9	72 8212, 68	8 \$21, 86	2 \$218, 20	1\$118,71	7\$189,-858	\$172, 964
Operative builders	300		3,000	4,000	3, 493									•		1, 400
General contractors. Building. Building not specialized Commercial building only. Residential building only. Highway. Brides and colvert.	476	24 24	49, 569 47, 919 45, 419 2, 500 1, 150	272, 504 241, 936 239, 419 2, 517 2, 685 294	360,789 290,683 281,812 6,242 2,629 1,300 50,659	450, 467 450, 284 321, 308 128, 976	212, 896 2, 498 1, 898 600 22, 177 2, 638	140, 818 3, 636 3, 636 5, 552 7, 817	1, 53 1, 53 10, 28	6 3,72 6 3,72	3 121 3 121	18,738 18,738 18,738	191, 537 185, 849	10, 594 1, 500 10 87, 208	151, 157 1, 508 1, 508 500 7, 500	167, 333 34, 280 33, 915 225 140 30, 913 75, 375
Highway. Bridge and culvert Grading Street paving Sewer, gas, water, conduit Dam and reservoir. Waterworks Railcoad. Eaurod.			500	57 1,532	7, 400 5, 747		23, 853 1, 955 34, 675 125, 000	9, 099 14, 714	- 87 1,00 6,00	6 35, 15 0 1, 57 0			28, 664	3, 946 9, 940	6, 000 135, 651	
Foundation Central station, light and power plant							100	100,000								9,000
Subcontractors	24, 593	1, 47	7,808	1, 594, 017	1, 047, 229	8,000	26, 303	99, 524		5, 284 100	11,500	986		5, 519	38, 701	4, 231
Electrical Heating and plumbing Heating and plping Pipe covering Plumbing		68	67,450	6,000 1,587,959 244,357 1,061,833	1,025,809 21,400 9,500 11,900	······································	10, 370 300 4, 420	87, 424 81, 249 5, 500						· · · · · · · · · · · · · · · · · · ·		500
Plumbing and heating Plumbing and heating combined Automatic temperature control. Booling and sheet-metal			57, 017 58, 075	281, 709			5, 650	675							 3, 000	
		1	1,829 1,800 6,029	58 58	20					2,000				5, 519	1,890	838 2, 419
Excavating							15,933	12,100		3, 184	11, 500					
			3, 432	115, 274	1, 025	8,000	1, 885	927	8,000) 17,000	-			35, 946	33, 811	974 845
General contractors Building Building not specialized.			1, 200 1, 200 1, 200 1, 200	800 800 800	1, 025 1, 025 1, 025 1, 025		1,735 135 135	927	6, 000) 17,000				35, 946		530
Street paving							1,500 100	927	6,000	17,000				32,000 3,946		

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See footnotes at end of table.

TABLE 11.—COST OF MATERIALS FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929— Continued

[See note at head of this table]

				[566]	поге ис пе										
CLASSIFICATION OF ESTABLISH- MENTS	Screens, shades, awn- ings, etc.	Heating and venti- lating equip- ment		Electrical appliances and supplies	Eleva- tors, dumb- waiters, etc.	Pipe: Drain tile, vitrified, concrete, etc.	Pipe: Oast iron, sheet and tube steel, etc.	Wire cable, guards, and fencing	Bitu- minous paving mate- rials	piling and timber	Ready- mixed con- crete	Machin- ery	Freight, haul- ing, or truck- ing to job	Metal prod- uots, n. e. s.	Míscel- laneous ⁹
DULUTH-Oontinued. Subcontractors		\$81,413	\$114,474											\$4, 882	\$845
Heating and plumbing Heating and piping		75, 384 19, 000													
Plumbing and heating		38, 384	76, 416												
Heating and piping Plumbing and heating combined		18, 000	38, 000			150								3,000	
Sheet-metal work		6, 029	58					 		·····				1,882	845
Marble and thing	\$62, 438	945, 686	1, 204, 124	\$938, 470		10, 412	\$193, 064	\$5, 639	\$11, 254	\$198, 192	\$2, 624	\$218, 201	\$15, 827	169, 470	108, 447
Operative builders	300	3,000	4,000	3, 493											1,400
General contractors Building Commercial building only Residential building only	97 545	207,800 207,800	234, 528 208, 149 205, 632	284, 500 272, 059 264, 762	434, 445 434, 445 305, 469	3,992 301 301	116, 164 805 305	5, 639 688 688	7,970 516 516	198, 192 121 121	1, 638	191, 537	10,308	135, 651 	15, 156
Commercial building only.	7,040	205, 300		6,242	128,976								10		140
Residential building only Highway Bridgo and culvert Grading Street paving Dam and reservoir Railroad Control station, light and	- 136	2, 500	2, 517 85	1,055			4,992	4,500	4,754	1,358	1,638				1 74.875
Bridge and culvert			294	1,694		1,853	6, 117	. 376							
Street paving				5,747			4,750			87,761		98 884	1	1135.661	
Railroad						•	·								
power plant	- 20,000		. 26,000	5, 000 650, 477	8,000	6, 420	100,000		3, 284		986		5, 519	33, 81	9,000
Subcontractors	- 24, 593	734, 886	965, 596						. 100						
Electrical		720, 454	965, 506	629,057 21,400		6,420	78,900								
Electrical. Heating and plumbing Heating and plping Pipe covering Plumbing and heating		720, 454 337, 987 37, 069	125, 670	9,500			. 72,400								
Pipe covering Plumbing		174, 504	716, 357				4, 500		-		-				
anmhined		112,869	123, 569			- 5,000			-		-			-	
testemantin tommergeline							-			_			-	·	
Roofing and sheet-metal work	[]	11 000			_			-							
work Roofing		1,000													
Sheet-metal work											- 980	}	5, 519		450
Marble and tiling									3, 184					33, 811	974
Marcie and thing Soundproofing Metal work, n. e. s	24, 593	3, 432			- 8,00							1	1, 139		
ST. PAUL	2, 08	7 468, 617	270, 651	276, 238	3, 41	5 176, 885	34, 84				_			e 000	91 400
General contractors	- 2,03		22, 426 19, 826	69, 352 11, 687	8,41	$5 157, 652 \\ 5 406$	12,698	3 21,081 512	148,458 2 2.000		17,73	3 3 	1,139 1,139		9, 635 9, 635
Building not specialized. Residential building only	1, 98 1, 74	7 28,505	19,826	10, 204	3.41	5 400		512	2 2,000 2 2,000		17,73	8	1, 139		
Residential building only.	24		2,600	1,483)	21, 24	56	5,78							
Residential building only. Highway Bridge and culvert Grading															1,765
Grading Street paving Sewer, gas, water, conduit. Waterworks				7,400	1	11,00	3,42 5,50	2 1,00	32, 45 3) 				8,00	10,000
Sewer, gas, water, conduit. Waterworks						125,00)								
power plant						19,23	3 21, 94	13,78 0		11.50					1,624
Subcontractors			2 257,22 0 6,00	206,88	6			a-							
Heating and plumbing			2 201, 44	5		3,30 30	0 9,84 0 8,84								
Pipe covering		20,00	1			3,00	0 1,00	0							
Plumbing and heatin	g	01,09													
combined Roofing and sheet-mete		7,00		0									1		
work															
"Memble and filing						15,98	3 12, 10	0		!					
Excavating Foundation										11, 50	N		[
	1	- 1	1	· 1 ·		-									a second a da

¹ Certain establishments did not give a distribution of the cost of their materials by separate items. The total cost of material reported by such establishments is, however, included in totals in this column which carry a footnote to that effect. ³ See footnote 5 of Table 9 on p. 656. ³ Highway, \$413,466. ⁴ Sewor, gas, water, conduit, \$14,979; dam and reservoir, \$90,000. ⁵ Commercial building only, \$40,000. ⁶ Concreting, \$1,072; electrical, \$18,240; highway, \$13,456. ⁷ Highway, \$400,000. ⁸ Raifred, \$23,282,178. ⁹ Includes the reported cost of chemicals and chemical products; mineral products (nonmetallic) n. e. s.; textiles and caulking materials; and miscellaneous, n. e. s. For total cost of these items see Table 9.

F BUSI	GE OF TOTAL NUMBER OF KNOWN ESTABLISHMENTS, AND AVERAGE VOLUME PER ESTABLISHMENT
TABLE 12.—NUMBER OF, AND VOLUME OF BUSINESS REP	\$25,000 IN 1929, PERCENTAGE OF TOTAL NUMBER O

			195	MINNESOTA 330 population, 2,563,953	NESOTA ation, 2,	563,953			1930 pc	DULUTH	DULUTH 1930 population, 101,463		MINNEAPOLIS population, 4(MINNEAPOLIS 1930 population, 464,356		sr. PAUL pulation,	sr. PAUL 1930 population, 271,606	REMAI 1930 pop	REMAINDER OF 930 population, I	REMAINDER OF STATE 1930 population, 1,726,528
	Knc es	wn col tablish	Known contracting establishments			Volum: re	Volume of business reported		Totol	Volt bus	Volume of business	[otoE	10V Ind	Volume of business	LotoF.	Volu bus	Volume of business	meto.	Volu bus	Volume of business
TYFE OF WORK		-Щ	Activ 192	ive in 329	Num- ber of report-	Per	<u></u>	Average				ber ber	Num- ber of report-		ber ber ber	Num- ber of report-	1	1 0tal ber setive	Num- ber of report-	
	num- ber	acuve in 1929	Num- ber	Per cent		of active	Amount	per es- tablish- ment	1929	ing estab- lish- ments	Amount	1929	ing estab- lish- ments	Amount	11929	ing estab- lish- ments	Amount		ing estab- lish- ments	Amount
Total establishments canvassed (less than \$25,000)	1, 963	1 56	1,907						48			428			296			1,135		
Total establishments, type of work unknown Total concred contractors and subcontractors	148	5	146		10	6.8	\$56,098	\$5, 610	13	г	\$18,000	80		-	г			\$3	6	\$38,098
classified	1,815	54	1, 761	100.00					35			339			295			1,092		
Total general contractors classified	600	40	560	31.8	284	50.7	2, 548, 438	8,973	21-	3	43, 375	85	12	\$134,078	93	32	\$402, 445	361	237	1, 968, 540
Building. Highway Bridge and culvert.	455 98 12	32 6 1		24 0 5.2 .6	242 25 6	57.2 27.2 54.5	2, 162, 859 253, 035 51, 629	8,937 10,121 8,605	14 3	5	40,925	26 7	12	134, 078	81	884	337, 020 33, 000	57 E 1	88.0	$1,650,836\\220,035\\51,629$
Statest paving. Sever, gas, water, conduit. Dam and reservoir. Foundation.	N 63 00 41		1204		10-10	31.38 33.38 50.03	45, 040 2, 450 14, 658	$6, \frac{434}{120}$ 2, 450 7, 329		I	2,450	I					13,658	2 <u>2</u> 220	1	45,040
Railroads Total subcontractors classified	3 1,215	14	3 1,201	.2	409	33.3	18, 767 2, 768, 221	18, 767 6, 768	14	3	33,416	254	54	598, 576	202 2	55 I	18, 767 554, 183	731	297	1, 582, 046
Carpentering. Concreting. Electrical.	142 130 130	0111	140 67 129	0 00 m r 0 m r-	70 31 31	24.0 24.0	269, 170 275, 756 242, 069	3,845 7,660 7,809				1102	9	78, 467	15 19 29	4 20	11, 126	123 55 98	888	258, 044 197, 289 170, 392
Heating, ventilating, and piping. Masoury. Qiass. Qiass.	2349 G v	3 2	79497 79497	. 82 . 11. 11.9 25.3	23 9 1 1	34.4 36.7 36.7 25.0	162, 784 39, 740 332, 052 5, 000	7, 752 4, 416 4, 312 5, 000	F		5,000	11 18 18	01014	29, 695 31, 350 54, 369	17 51 51	13 4	27, 554 105, 506	49 23 23 40 40	15 59 1	105, 535 8, 390 167, 177 5, 000
ripe covering	304 304 304 8 304 8 304 8	11 co	301 201 201 201 201 201 201 201 201 201 2	.9.1.9. .4.190	47 92 16 1	20 3 4 0 2 20 3 4 0 2 20 3 4 0 2	275, 875 909, 090 184, 365 13, 000 24, 764	5, 870 5, 870 9, 881 11, 523 13, 000 6, 191		5	28,416	116 73 16	24 14	188, 605 204, 834 5, 264	7 56 25 3	1042	14,000 164,920 117,765 18,000	-488.00	23 6 6 1 1	510, 870 510, 870 66, 600 13, 000
Wrecking Excerting and grading Orgamental iron	102		ი ე ე დ	<u>ت</u> ەن،	13	30.0 16.7	28,614 5,942	9, 538					1	5,942	C1 63	F	23,635	-11-	101	4,979
	1 Of the	total i	1 Of the total inactive	contract	ors, 1 is	in Dulu	contractors, 1 is in Duluth 2 are in Minneapolis, 4 in St. Paul, and 49 in the remainder of the State.	Minneap	nolis, 4 î:	n St. Pa	ul, and 4	in the 1	remaino	er of the E	ltate.				-	

TABLE 13.--ESTABLISHMENTS (WHOSE BUSINESS WAS LESS THAN \$25,000 IN 1929) WHICH REPORTED THEIR VOLUME OF CONSTRUCTION WORK, CLASSIFIED BY RANGE OF VOLUME OF BUSINESS

CLASSIFICATION	Total	Less than \$2,500	\$2,500 to \$4,999	\$5,000 to \$7,499	Less than 22,500 to \$5,000 to \$7,500 to \$10,000 to \$17,600 to \$17,600 to \$17,600 to \$2,500 to \$17,499 \$17,499 \$17,499 \$17,499	\$10,000 to \$12,499	\$12,500 to \$14,999	\$15,000 to \$17,499	\$17,500 to \$19,999	\$20,000 to \$22,499	\$22,500 to \$24,999
MINNESOTA											
Total general contractors and subcontractors	703	188	119	95	62	70	34	36	31	30	21
General contractors	284 409 10	51 132 5	44 1 1	41 52 2	39 40	32.52	14 20	21 15	14 15 2	18 12	11 ,

CONSTRUCTION-MINNESOTA

MISSISSIPPI

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MISSISSIPPI



TABLE 1.--VALUE OF CONSTRUCTION BUSINESS DURING 1929, AND PRINCIPAL ITEMS OF EXPENDITURE [Values expressed in thousands]

	tablish-		OF CON		PRINC	TURES	PENDI-		of establish- nents	VALUE TIO	OF CONS			PAL EXI TURES	PENDI-
AREA, CLASSIFICATION OF ESTAB- LISHMENTS, AND SIZE OF BUSI- NESS GROUPS	Number of es ments	Total	Under general contract or directly for owner	sub-	Sub- con- tract work let	Wages paid	Cost of ma- terials	AREA, CLASSIFICATION OF ESTAB- LISHMENTS, AND SIZE OF BUSI- NESS GROUPS	Number of es ments	Total	Under general contract or directly for owner	suo-	Sub- con- tract work let	Wages paid	Cost of ma- terials
MISSISSIPPI	95	\$12, 948	\$10, 953	\$1, 995	\$2, 075	\$2, 918	\$5, 177	MISSISSIPPI-Continued.		1].	ĺ		
Counties: Coahoma. Forrest. Harrison. Jones. Lauderdale. Lee. Leflore. Lowndes. Warron. Other counties 1. Classification of establish- ments	9 9 20 3 12 3 3	378 897 1, 424 4, 304 342 1, 494 286 427 328 567 2, 500	$\begin{array}{r} 370\\ 637\\ 897\\ 3,931\\ 314\\ 1,270\\ 224\\ 322\\ 260\\ 408\\ 2,320\\ \end{array}$	8 260 527 373 28 224 62 105 68 159 180	5 433 257 644 230 158 45 28 28 30 607	80 269 277 898 20 392 64 91 77 161 581	189 424 505 1,868 90 696 100 205 130 263 640	Size of business groups General contractors	15 20 14 14 3 40 9 12 9	632 1, 377 2, 027 4, 575 1, 988 	\$10, 438 632 1, 323 2, 027 4, 517 1, 939 6, 308 400 825 1, 251	\$161 	\$2,075 107 205 198 938 632 1,282 93 1,282 93 156 84	\$2, 341 169 374 470 930 396 	\$4, 055 218 488 879 1, 856 614 2, 711 170 362 820
General contractors. Building. Building not specialized. Residential building only. Highway. Bridge and culvert. Street paving. Other classes ?		10,6006,3086,0912172,3071,142608234	10, 4386, 3086, 0912172, 1461, 142608234	161	2, 075 1, 282 1, 223 59 327 440 26	$2, 341 \\1, 445 \\1, 391 \\54 \\518 \\163 \\141 \\73 \\$	4, 055 2, 711 2, 632 79 682 358 245 50	\$200,000 to \$400,000 \$600.000 to \$909,000 \$1,000,000 and over \$25,000 to \$49,900 \$100,000 to \$49,900 \$100,000 to \$99,909 \$200,000 to \$999,909 \$200,000 to \$999,900 \$200,000 to \$999,900	82	2, 402 1, 430	2,402 1,430 515 106 131 278	1, 834 324 458 530 521	421 528	583 263 577 104 161 170 142	1, 059 500 1, 121 213 277 396 235
Subcontractors Electrical. Heating and plumbing Plumbing. Plumbing and heating com- bined. Roofing and sheet-metal work.	29 9 15 12 3 5	2, 348 579 1, 392 1, 185 207 377	515 312 203 120 83	1,834 267 1,189 1,065 124 377		577 135 357 320 37 85	1, 121 307 650 544 106 165	\$500,000 to \$999,900 \$1,000,000 and over							

¹ Includes Adams, Alcorn, Bolivar, Clay, Do Soto, Humphreys, Jefferson, Lincoln, Madison, Marion, Marshall, Neshoba, Perry, Scott, Smith, Washington, Yalobusha, and Yazoo, for which data can not be shown without revealing individual operations. From areas other than those listed, no reports were received from establishments, which handled as much as \$25,000 business during 1929. ¹ Includes grading; sewer, gas, water, conduit; and levee.

TABLE 2.—CONSTRUCTION BUSINESS OF REPORTING ESTABLISHMENTS DURING 1929, BY CLASS OF OWNER-SHIP AND BY TYPE OF WORK

	CONSTRUCTIO	N BUSINESS REFO	ORTED BY-		CONSTRUCTIO	N BUSINESS REI	ORTED BY-
CLASS OF OWNERSHIP AND TYPE OF	All classes of establish- ments	General con- tractors	Subcontrac- tors	CLASS OF OWNERSHIP AND TYPE OF	All classes of establish- ments	General con- tractors	Subcontrac- tors
CONSTRUCTION WORK	Vumber re- porting Najne	Number reporting porting Mirribow	buttun bouting Value		borting Dorting Nalue	and Maine	-ez Jugar Value
MISSISSIPPI	05 010 047 000	88 010 E00 E10	00 00 249 147	MISSISSIPPI-Continued		· · · ·	
All construction business Distribution not reported Private Quasi public or community Public. Distributed by class of ownership. Public. Distributed by class of public ownership Federal. State. County or township Municipal. All business under general contract or directly for owners. Distributed by class Distributed by class Building. Distributed by class Building. Distributed by class Commercial Educational Hotel Hospital and institutional Manufacturing Religious and memorial Social and recreational Miscellaneous	$\begin{array}{c} 965 \\ \$12, 947, 666 \\ 177 \\ 1, 378, 609 \\ 78 \\ 11, 609, 057 \\ 811, 609, 057 \\ 54 \\ 3, 603, 462 \\ 20 \\ 56 \\ 78, 918 \\ \hline \\ 81 \\ 55 \\ 78, 918 \\ \hline \\ 81 \\ 51 \\ 22 \\ 1, 075, 275 \\ 24 \\ 1, 117, 818 \\ \hline \\ 76 \\ 10, 952, 604 \\ 4 \\ 163, 341 \\ \hline \\ 72 \\ 10, 789, 355 \\ 40 \\ 6, 375, 119 \\ 32 \\ 1, 06, 912 \\ 22 \\ 52 \\ 22 \\ 52 \\ 22 \\ 1, 075, 275 \\ 24 \\ 1, 117, 818 \\ \hline \\ 76 \\ 10, 952, 604 \\ 4 \\ 163, 341 \\ \hline \\ 72 \\ 10, 789, 355 \\ 40 \\ 6, 375, 119 \\ 32 \\ 1, 406, 912 \\ 22 \\ 52 \\ 22 \\ 8 \\ 100, 235 \\ 46 \\ 6, 375, 119 \\ 32 \\ 1, 006, 912 \\ 22 \\ 1, 006, 912 \\ 22 \\ 1, 006, 912 \\ 22 \\ 1, 006, 912 \\ 21 \\ 42 \\ 1, 002, 235 \\ 1, 002, 23$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	 All business under general contract or directly for owners—Contd. Distributed by class—Continued. Public works and utilities	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{bmatrix} 10 & 1, 241, 015 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\$	24 \$1, \$33, \$112 1 220, 493 862, 646 7 7 183, 517 11 424, 490 3 244, 639 5 187,000 6 247,761

Value omitted in order to avoid disclosing individual operations. The amounts omitted are, however, included in the respective totals. 127100-33-44

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TABLE 3.-CONSTRUCTION BUSINESS DURING 1929, BY LOCATION

	Establishments reporting	Total	In home city	In home State	Outside home State	CLASSIFICATION OF ESTAB- LISTIMENTS	Establishments reporting	Total	In home city	In home State	Outside home State
MISSISSIPPI	89	\$11, 374, 542	\$3, 566, 593	\$9, 847, 078	\$1, 527, 464	MISSISSIPPI-Continued.					
General contractors Building. Building not specialized Residential building only Higbway. Bridgo and culvert. Street paving. Other classes ¹	4	$\begin{array}{c} 9, 165, 645\\ 4, 901, 992\\ 4, 685, 243\\ 216, 749\\ 2, 307, 466\\ 1, 141, 662\\ 008, 370\\ 206, 155\\ \end{array}$	$\begin{array}{c} 2, 189, 040\\ 1, 740, 794\\ 1, 530, 545\\ 210, 249\\ 15, 024\\ 15, 000\\ 390, 103\\ 28, 038\\ \end{array}$	$\begin{array}{c} 7,734,681\\ 4,839,496\\ 4,629,247\\ 210,249\\ 1,330,581\\ 812,662\\ 608,370\\ 143,572 \end{array}$	1, 430, 964 62, 496 55, 996 6, 500 976, 885 329, 000		11	\$2, 208, 897 579, 303 1, 252, 790 1, 045, 554 207, 236 376, 804	\$1, 377, 544 332, 823 826, 305 641, 669 184, 636 218, 410	\$2, 112, 397 534, 803 1, 202, 790 1, 000, 554 202, 236 374, 804	\$96, 500 44, 500 50, 000 45, 000 5, 000 2, 000

¹ Includes grading; sewer, gas, water, conduit; and levee.

TABLE 4 .- CONSTRUCTION BUSINESS OUTSIDE HOME STATE, BY LOCATION

		LOCATI	ON REPORTED	BY—		LOCATI	ON REPORTED	BY
ST	ATE	All classes of establish- ments	General contractors	Subcon- tractors	STATE	All classes of establish- ments	General contractors	Subcon- tractors
MISSI	SSIPPI				MISSISSIPPI-Continued			1
Total distributed by	State 1	\$1, 527, 464	\$1, 430, 964	\$96, 500	Florida. Louisiana	\$5, 000 490, 381	#405 001	\$5, 000 5, 000
Alabama Arkansas		510, 235 135, 643	488, 235 135, 643	22, 000	Tennessee. Other States, not specified	490, 381 321, 705 64, 500	\$485, 381 321, 705	5, 000 64, 500

Number of establishments reporting: ¹ All classes, 19; general contractors, 14; subcontractors, 5.

TABLE 5 .- NUMBER AND SALARIES OF PROPRIETORS, FIRM MEMBERS, AND SALARIED EMPLOYEES: 1929

		FROPR	IETORS MEMBI	AND FIRM ERS				SALA	RIED EN	MPLOYEES				·· .
CLASSIFICATION OF ESTABLISHMENTS	Estab- lish- ments report-	Re- ceiv-		ceiving Jaries		salaried bloyees		ers and cal staff		ntendents, nen, etc.	Nüml	ber repo by sex	rted	Sex
	ing	ing no salary	Num- ber	Total annual salaries	Total num- ber	Total annual salaries	Num- ber	Total annual salaries	Num- ber	Total annual salaries	Total	Male	Fe- male	re- port- ed
MISSISSIPPI	90	75	29	\$106, 673	265	\$567, 256	124	\$270, 395	141	\$296, 861	244	216	28	21
Ueneral contractors Building Residential building only Highway Bridge and culvert Street paving Other classes ¹	$ \begin{array}{c} 63 \\ 37 \\ 33 \\ 4 \\ 11 \\ 5 \\ 5 \\ 5 \\ 5 \end{array} $	60 41 37 4 14 2 3	$\begin{array}{c} 14\\10\\10\end{array}$	62, 803 42, 103 42, 103 42, 103 	181 68 67 1 48 30 25 10	390, 823 162, 024 160, 024 2, 000 90, 089 64, 192 50, 608 23, 910	64 28 28 13 12 10 1	139, 768 64, 435 64, 435 19, 200 29, 750 24, 533 1, 850	117 40 39 1 35 18 15 9	251, 055 97, 589 95, 589 2, 000 70, 889 34, 442 26, 075 22, 060	$ \begin{array}{r} 170 \\ 67 \\ 60 \\ 1 \\ 42 \\ 26 \\ 25 \\ 10 \\ \end{array} $	158 61 60 1 38 25 24 10	12 6 6 	
Subcontractors Electrical Heating and plumbing Plumbing Plumbing and heating combined Roofing and sheet-metal work	15 12	15 2 10 8 2 3	15 3 10 8 2 2	43, 870 7, 500 29, 120 18, 620 10, 500 7, 250	84 19 47 39 8 18	176, 433 38, 764 104, 241 84, 921 19, 320 33, 428	60 13 34 28 6 13	130, 627 30, 264 73, 915 59, 015 14, 900 26, 448	24 6 13 11 2 5	45, 808 8, 500 30, 326 25, 906 4, 420 6, 980	74 19 37 29 8 18	58 15 28 22 6 15	16 4 9 7 2 3	10 10 10

¹ Includes grading; sewer, gas, water, and conduit; and levees.

TABLE 6.—VALUE OF CONSTRUCTION EQUIPMENT, IN COMPARISON WITH CONSTRUCTION BUSINESS AND WAGES PAID DURING 1929

	lents 1g		JIPMENT	Value of	3- 117.0000		ents	{ -	IPMENT	Value of	
CLASSIFICATION OF ESTABLISHMENTS AND FERCENTAGE OF EQUIPMENT OWNED	Establishm reportin	Fur- be chased af during af the year Inventory value at the year value at outstruc- tion busi- paid Wages paid CLASSIFICATION OF ESTABLISHMENTS Inventory to busi- paid Construc- tion busi- the year Value at outstruc- to busi- ported Wages paid CLASSIFICATION OF ESTABLISHMENTS Inventory to busi- paid		Pur- chased during the year	Inventory value at end of year	construc- tion busi- ness re- ported	Wages paid				
MISSISSIPPI		\$294, 902	\$1, 046, 028	\$11, 458, 424	\$2, 645, 809	Percentage of equipment owned					
Classification of establishments General contractors Building	57 33	284, 129 52, 660 51, 260	972, 206 173, 215	9, 575, 458 5, 653, 244	2, 168, 087 1, 303, 531	General contractors None 1 to 25 per cent	57 2	\$284, 129 1, 170	\$972, 206 050	\$9, 575, 458 812, 855	
Building not specialized Residential building only Highway. Bridge and culvert. Street paving. Other classes 1	1.61	1, 200 1, 400 140, 945 48, 078 5, 579	170, 115 3, 100 488, 762 95, 929 91, 654	5, 475, 095 178, 149 1, 977, 895 1, 141, 662 568, 779	1, 267, 808 45, 723 401, 189 163, 471 136, 743	26 to 50 per cent	$1\\ 8\\ 46$	10, 126 62, 605 210, 228	11, 900 124, 958 834, 698	49, 954 1, 894, 508 7, 818, 141	23, 877 349, 069 1, 751, 952
Subcontractors	23	41, 867 10, 773 5, 079	122, 646 73, 817	233, 878 1, 882, 966 543, 303	73, 153 477, 722 125, 852	Subcontractors	23	10, 773	78, 817	1, 882, 966	
Heating and plumbing Roofing and sheet-metal work	11 4	4, 544 1, 150	25, 581 26, 497 21, 739	990, 859 348, 084	269, 575 82, 295	None. 1 to 25 per cent. 26 to 50 per cent. 51 to 75 per cent. 76 to 90 per cent. 100 per cent. Not reported.	2 21	550 10, 223	14, 139 59, 678	150, 049 1, 732, 917	33, 240 444, 476

¹ Includes sewer, gas, water, conduit; and levee.

TABLE 7 .- WAGE EARNERS, BY MONTHS, AND WAGES PAID DURING 1929

Construct NO. OF WORKING WEEK Janu- ing Janu- ary Feb. report. March ary April May June July August Sep- tember Octor ber De- cember De- cember MISSISSIPF1. 78 1,423 1,653 1,644 1,763 1,965 9,897 9,810 9,810 9,808 9,732 2,208 2,001 32,356,801 General contractors. 52 1,068 1,051 1,237 1,455 1,466 1,461 2,305 1,247 1,260,38 1,051 1,050 1,050 1,050 1,050 1,050 1,050 1,050 1,050 1,050 1,050 1,050 1,050 1,050 1,050	OF A CONTRACT PROVIDENT AND A VIEW OF THE AND A	Estab- lish-		NUMBE	R EMPLO	YED ON	5TH DAY	OF THE	MONTH	OR NEAR	est repr	ESENTA	NIVE DAY		Wages
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	CLASSIFICATION OF ESTABLISHMENTS AND LENGTH OF WORKING WEEK				March	April	May	June	July	August	Sep- tember		No- vember	De- cember	paid dur.
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	MISSISSIPPI	78	1, 422	1, 582	1, 644	1, 793	1, 925	2, 297	2, 713	2, 819	2, 805	2, 722	2, 209	2, 061	\$2, 389, 802
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Building Highway Bridge and culvert	30 11 3	412 394 38 175	432 421 120 149	573 487 105 73	630 578 100 71	065 594 128 101	941 675 147 123	$ \begin{array}{c c} 1,100 \\ 748 \\ 209 \\ 224 \\ \end{array} $	1,123 810 183 297	1, 184 702 190 250	1, 133 769 171 201	758 603 178 190	801 485 156 195	$\begin{array}{c} 1,839,388\\ 987,064\\ 517,994\\ 135,471\\ 133,366\\ 05,503 \end{array}$
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Electrical Heating and plumbing Plumbing Plumbing and heating combined	8 13 10 3	97 176 139 87	88 189 153 36	79 186 150 36	76 201 165 36	76 216 177 39	72 207 176 31	68 220 189 31	75 211 174 37	78 273 234 39	$ \begin{array}{r} 88 \\ 212 \\ 191 \\ 21 $	95 222 195 27	85 199 170 29	500, 414 125, 574 290, 045 252, 807 37, 178 84, 795
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Length of working week	1			1					1. A. 1. A.					
	40-hour, 5-day week		1,086	1, 196	1, 321	1,453	1, 566	1,945	2, 350	2, 471	2, 396	2, 853	1, 810	1,709	1,839,388
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	50-hour, 5-day week	1	20	27			27	32	41	25	23	29	26	19	23, 877
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	44-hour, 54-day week 494-hour, 54-day week 55-hour, 54-day week All other 54-day week 48-hour, 6-day week 54-hour, 6-day week 60-hour, 6-day week All other 6-day week All other not designated	3 1 5 4 4 18 5 2	61 75 126 51 70 560 58 40	76 7 82 99 60 90 635 53 40	117 8 82 188 76 88 596 48 42	$ \begin{array}{r} 113 \\ 10 \\ 76 \\ 177 \\ 101 \\ 80 \\ 671 \\ 60 \\ 50 \\ 50 \end{array} $	$ \begin{array}{r} 109 \\ 10 \\ 70 \\ 108 \\ 82 \\ 86 \\ 805 \\ 75 \\ 45 \\ \end{array} $	341 8 100 163 91 123 894 63 45	291 8 128 136 74 132 1, 314 77 45	$\begin{array}{r} 308 \\ 10 \\ 145 \\ 143 \\ 86 \\ 140 \\ 1,355 \\ 91 \\ 60 \\ \end{array}$	$11\\183\\111\\93\\142\\1,295\\127\\60$	296 15 178 168 88 140 1, 220 117 80	108 12 104 114 83 120 1,045 135 40	108 12 87 162 81 106 966 110 40	$151,060 \\ 9,378 \\ 142,233 \\ 208,499 \\ 118,758 \\ 125,266 \\ 855,190 \\ \end{tabular}$
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	40-hour, 5-day week 45-hour, 5-day week 50-hour, 5-day week										409	369	399	352	500, 414
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	All other 5-day week 44-hour, 5½-day week 49½-hour, 5½-day week 55-hour, 5½-day week	10 1	3	3	3	4	4	4							215, 326 4, 272
All other of designated 2 29 29 26 25 21 26 22 20 24 20 16 22 21 41,661	48-hour, 6-day week 54-hour, 6-day week 60-hour, 6-day week	6	98	108	108	109	117	112	117	116	167	131	150	118	141, 389
Not reported	All other 6-day week	2	29	29	25	21	26	22	20	24	20	15	22	21	41, 661

¹ Includes grading; sewer, gas, water, conduit; and levee.

TABLE 8.-EXPENDITURES OF REPORTING ESTABLISHMENTS: 1929

	.		PRINCIPAL I	TEMSOFEX	PENDITURE			OTHER I	TEMS OF	EXPENI	ITURE		
	Es- tab-	Value of				Sale	aries	Ren	t for			Com- pensa-	All
CLASSIFICATION OF ESTABLISHMENTS	lish- ments re- port- ing	construc- tion business reported	Subcon- tract work let	Wages paid	Cost of materials	Propri- etors and firm mem- bers	Em- ployees	Equip- ment	Offices, etc.	Inter- est	Con- tract bond pre- miums	tion and lia- bility insur- anco pre- miums	other over- head ex- penses
MISSISSIPPI	69	\$9, 259, 929	\$1, 545, 000	\$2, 026, 638	\$3, 824, 665	\$91, 073	\$422, 251	\$30, 383		\$34, 004	\$92, 793	\$58, 875	\$475, 571
General contractors Building Building not specialized Residential building only Highway Bridge and culvert Other classes !	40 31 28 3 7 5 6	7,715,8924,911,5764,733,427178,149966,9271,141,662695,727	$\begin{array}{c} 1,545,000\\956,000\\915,000\\41,000\\123,000\\440,000\\26,000\end{array}$	$\begin{array}{c}1,671,300\\1,149,251\\1,103,528\\45,723\\185,282\\163,471\\173,296\end{array}$	2, 139, 531 2, 071, 368 68, 163 339, 333 358, 364	62, 803 42, 103 42, 103 	274, 203 99, 924 97, 924 2, 000 50, 569 64, 192 59, 518	28,962 13,546 13,546 11,905 2,883 628	9, 497 6, 278 5, 978 300 1, 250 1, 474 495	$23,500 \\13,946 \\13,498 \\450 \\2,263 \\3,697 \\8,594$	89, 634 52, 694 52, 554 140 11, 315 17, 070 8, 555	$51, 581 \\33, 415 \\33, 151 \\264 \\4, 366 \\9, 175 \\4, 625$	$\begin{array}{c} 355, 436\\ 92, 550\\ 91, 700\\ 850\\ 130, 305\\ 26, 843\\ 106, 238 \end{array}$
Subcontractors. Electrical Heating and plumbing Roofing and sheet-motal work	20	1, 544, 037 396, 164 846, 283 301, 590		355, 338 85, 243 208, 841 61, 254	713, 377 213, 597 370, 438 129, 342	28, 270 1, 500 23, 120 3, 650	148, 048 87, 864 80, 116 30, 068	1, 421 1, 421	13, 954 5, 150 6, 824 1, 980	10, 504 2, 005 5, 872 2, 627	3, 159 1, 288 1, 871	7, 294 1, 712 3, 379 2, 203	120, 135 26, 410 03, 544 30, 172

1 Includes grading; street paving; and sewer, gas, water, conduit.

TABLE 9.-COST OF MATERIALS FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929, BY KIND

	COST	OF MAX	TERIALS	REPORTEI	BY-		COST C	OF MAT	FERIALS	REPORTED	вт
	All classes m	of esta ents	ablish-				All classes	s of est nents	ablish-		
KIND OF MATERIAL	Amount	cent	Per \$1,000 con- struc- tion work done ¹	General contrac- tors	Subcon- tractors	KIND OF MATERIAL	Amount	Per cent dis- tribu- tion	Per \$1,000 con- struc- tion work done	General contrac- tors	Subcon- tractors
MISSISSSIPPI						MISSISSIPPI—Continued Distributed by kind—Continued.					
All kinds of material Distribution not reported	\$5,176,566 1,528,676	29.5	\$476. 09 	\$4, 055, 422 993, 083	\$1, 121, 144 535, 593	Millwork		.0	\$39. 22 2. 25 1. 83	9,267 9,037	\$8,000
Distributed by kind	3, 647, 890	100. 0		3, 062, 339		Hardware, rough and finished Paints, varnishes, glass Roofing and sheet metal	63, 781 44, 295 229, 857	1.7 1.2 6.3	2 5.78	44, 295	
Sand, gravel, stone, slag, cinders, etc. Brick (face, common, fire, paving, etc.) Tile (freproofing).	28, 554	4.3		157, 669 28, 554		Composition board. Waterproofing materials Hardware, rough and finished Paints, varnishes, glass Roofing and sheet metal Finished flooring (other than ce- ment, wood, or tile). Screens, shades, awnings, etc Hoating and ventilating equipment. Plumbing and gas fitting equip- ment	54, 520 3, 520 148, 427) .1	L .46	54, 520 3, 520 115, 400	33, 027
Tile, facing, terra cotta, floor, and wall. Ouncrete and einder blook. Cut stone, granite, and marble	94, 708 83, 327	5.8	10.87	94, 708 83, 32 209, 838	3 3 4 3 3 3 3 2 5 5 5	Plumbing and gas fitting equip- ment. Electrical appliances and supplies. Elevators, dumb-waiters, and	151, 269 271, 288	4.1	1 19.74 4 35.41	4, 389 4, 740	146, 880 266, 548
Cement	297, 344	* 8. 2	2 38.81 5 2.23	297, 34 17, 10 114, 08	4 3 	Elevators, dumb-waiters, and equipment. Pipe: Drain tile, vitrified, concrete,	4,000	1 .		l	
Plaster, etc. Structural steel Reinforcing steel Cast iron, miscellaneous, excluding	219, 107	6.0	28.59	210, 10	·	steel etc.		1.	4 6.64)
pipe Metal doors, windows, and trim Metal and wire lath and furring Ornamental metal work. Lumber, rough and finished Lath, shingles, and shakes (wood).	43, 200 8, 763 14, 705 352, 344	1.	2 5,64 2 1,14 4 1,92 7 45,99	43, 20 8, 76 14, 70 352, 34 10, 41	5 6 	steel, etc. Wire cable, guards, and fencing. Biturninous paying materials, tar, asphalt, and oil. Wood piling and timber. Freight, hauling or trucking to job Miscellaneous.	45, 71 5, 000 6, 91 33, 509		1 .65	45,717 5,000 6,911 33,508	3

¹ The value of construction work done is obtained from figures presented in Table 1, by subtracting the value of subcontract work let from the total value of construc-tion business. ² The percentage of total cost shown for this item is high because establishments located within this area reported that the large part of their construction work (on which this material was used) was done on contracts outside this area.

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TABLE 10.—COMPARISON OF COST OF DESIGNATED MATERIALS FURNISHED AND USED BY REPORT-ING ESTABLISHMENTS DURING 1929, WITH COST OF MATERIALS AND VALUE OF CONSTRUCTION BUSINESS

[Based exclusively upon reports of establishments which gave the distributed cost of materials]

		COST	OF DE	SIG-					COST	OF DE	sig-		
		NATED				Indi-			NATED				Indi-
	Cost of all		Per of		Value of	cated per cent		Cost of all			cent	Value of	cated per cent
KIND OF MATERIAL AND CLASSIFICATION OF ESTAB- LIGHMENTS	materials distrib- uted by kind	Amount	Total cost	Cost of all dis- trib- uted ma- ter- ials	construc- tion busi- ness	of all busi- ness done by own force ¹	KIND OF MATERIAL AND CLASSIFICATION OF ESTAB- LISHMENTS	materials distrib- uted by kind	Amount	Total cost	Cost of all dis- trib- uted ma- ter- ials	construc- tion busi- ness	of all busi- ness done by own force ¹
MISSISSIPPI							MISSISSIPPI-Continued					-	
Sand, gravel, stone, slag, cinders, etc. ²							Structural steel						
All classes	\$\$3, 647, 890	\$348, 125	100. 0	9.5	1\$8, 682, 922	84.0	All classes					4\$8, 682, 922	
General contractors. Building. Commercial building only. Residential building only Highway. Bridge and culvert Street paving	³ 3, 062, 339 2, 074, 447 1, 698, 785 332, 499 43, 163	348, 125 91, 058 69, 911 20, 533 614 154, 589	100.0 26.2 20.1 5.9 .2 44.4 17.8	1.4	1, 772, 998 1, 141, 662	85.8 61.5	General contractors. Building Building not specialized Commercial building only. Residential building only. Highway Bridge and culvert. <i>Reinforcing steel</i>	2, 074, 447 1, 698, 785 332, 499 43, 163	177, 755 103, 375 98, 721 4, 254 400 8, 380 66, 000	100. 0 58. 2 55. 5 2. 4 . 2 4. 7 37, 1	5.8 5.0 5.8 1.3 .9 1.8 18.4	4, 218, 919	85.8
Brick (face, common,							All classes	³ 3, 647, 890	219, 107	100. 0	6.0	4 8, 682, 922	84.0
fire, paving, etc.)	3 9 647 800	157 880	100.0	43	4 8, 082, 922	84.0	General contractors	³ 3, 062, 339 ⁵ 2, 074, 447	219, 107 82, 724	100. 0 37. 8	7.2	6 7, 503, 703	80.4 79.7
		157, 669 156, 799 149, 160 7, 200 439	100. 0 99. 4 94. 6 4. 6		⁶ 7, 503, 703 4, 218, 919 3, 260, 619 856, 151 102, 149 1, 772, 998		General contractors. Building Commercial building only Highway. Bridge and culvert Street paving. Lumber, rough and finished	^{\$ 3} , 062, 339 ^{\$ 2} , 074, 447 1, 698, 785 332, 499 458, 513 358, 304 120, 587	69, 474 13, 250 47, 822 87, 020 1, 541	31.7 6.0 21.8 39.7	4. 1 4. 0 10. 4 24. 3 1. 3	⁶ 7, 503, 703 ⁶ 4, 218, 919 3, 260, 619 856, 151 1, 772, 998 1, 141, 682 274, 156	82.8 62.6 85.8 61.5 95.7
Tile, facing, terra cotta,							All classes	³ 3, 647, 890	352, 344	100, 0	9.7	• 8, 6 82, 922	84.0
floor, and wall All classes	³ 3, 647, 890	94, 708	100, 0	2, 6	1 8, 682, 922	84.0	General contractors	* 3, 062, 339	352, 344	100. 0 73. 9	11. 5 12. 6	⁶ 7, 503, 703	80.4
General contractors	⁴ 3, 062, 339 ⁵ 2, 074, 447 1, 698, 785 332, 499	94.708		3. 1 4. 6 3. 7 9. 7	⁶ 7, 503, 703 ⁶ 4, 218, 919 3, 260, 619 856, 151	80. 4 79. 7 82. 8 62. 6	General contractors. Building Commercial building only Residential building only Highway Bridge and culvert. Street paving	⁶ 3, 062, 339 2, 074, 447 1, 098, 785 332, 409 43, 163 458, 513 358, 864 120, 587		11.3	12. 0 13. 0 3. 2 67. 1 11. 8 11. 1 (7)	3, 260, 619 856, 151 102, 149	79.7 82.8 62.6 72.8 85,8 61.5 95.7
All classes	3 3, 647, 890	83, 327	100. 0	2.3	1 8, 682, 922	84.0	Millwork						
							All classes			100, 0	8. 2	4 8, 682, 922	84.0
General contractors Building Building not specialized Highway Street paving Cut stone, granite, and	⁵ 2, 074, 447 1, 698, 785 458, 513 120, 587	83, 327 3, 500 8, 500 71, 507 8, 320	4, 2 4, 2 85, 8 10, 0	. 2 . 2 15. 6 6. 9		79.7 82.8 85.8 95.7	General contractors Building Building not specialized Commercial building only Residential building only	¹ 8, 002, 339 2, 074, 447 1, 698, 785 332, 499 43, 163	300, 494 300, 494 256, 500 36, 598 7, 387	$100.0 \\ 100.0 \\ 85.4 \\ 12.2 \\ 2.5$	9.8 14.5 15.1 11.0 17.1	⁶ 7, 503, 703 4, 218, 919 3, 260, 619 856, 151 102, 149	80. 4 70. 7 82. 8 62. 6 72. 8
Marble	³ 3. 647. 890	209, 838	100. 0	5.8	4 8, 682, 922	84.0	Hardware, rough and finished						
				6.9	⁸ 7, 503, 703 ⁶ 4, 218, 919	80.4	All classes	3 3, 647, 890	63, 731	100. 0	1.7	4 8, 682, 922	84.0
General contractors Building Building not specialized Commercial building only	⁶ 2, 074, 447 1, 698, 785	209, 838 103, 438 108, 400	100. 0 49. 3 50. 7	10, 1 6, 1 32, 0	⁶ 4, 218, 919 3, 260, 619 856, 151	79.7 82.8 62.6	General contractors	⁵ 3, 062, 339 2, 074, 447	63, 731 53, 063	100.0	2, 1 2, 6	⁶ 7, 503, 703 4, 218, 919	80.4 79.7
Commercial building only	002,400	100, 100	00.7	02.0	000, 101	0 -1 0	Building not specialized Commercial building only	1, 698, 785 882, 499	40, 258	63.2 18.9	2.4 3.6	⁶ 7, 503, 703 4, 218, 919 3, 260, 619 856, 151	82. 8 62. 6
All classes	³ 3, 647, 890		100. 0		⁴ 8, 682, 922	84.0	General contractors. Building. not specialized Commercial building only. Residential building only. Highway. Bridge and culvert.	43, 163 458, 513	769	$1.2 \\ 2.2$	1, 8	102, 149 1, 772, 998 1, 141, 662	72.8 85.8
General conractors	\$ 3, 002, 339 2, 074, 447	297, 344	100. 0 34. 7	9.7	⁶ 7, 503, 703 4, 218, 919	80.4 79,7	Roofing and sheet metal	aua, 304 (9, 268	14.5	2.6	1, 141, 002	61, 5
Building not specialized Commercial building only Residential building only	1, 698, 785 832, 499	297, 344 103, 051 80, 454 21, 600	27.1	4.7 6.5	3, 260, 619 856, 151	82, 8 62, 6	All classes	3, 647, 890	229, 857	100. 0	6.3	8, 682, 922	84.0
Residential building only Highway Bridge and culvert Street paving	^{\$} 3, 002, 339 2, 074, 447 1, 608, 785 332, 499 43, 163 458, 513 358, 364 120, 587	997 90, 926 73, 200 30, 167	. 3 30, 6 24, 6 10, 1	2.3 19,8 20.4 25.0	⁶ 7, 503, 703 4, 218, 919 3, 260, 619 856, 151 102, 149 1, 772, 998 1, 141, 662 274, 156	72, 8 85, 8 61, 5 95, 7	General contractors Building Building not specialized	^{\$} 3, 062, 339 ^{\$} 2, 074, 447 1, 698, 785	103, 761 103, 761 103, 761	45. 1 45. 1 45. 1	3.4 5.0 6.1	⁶ 7, 503, 703 ⁶ 4, 218, 919 3, 260, 619	80. 4 79. 7 82. 8
Plaster, etc.	, 1						Subcontractors Heating and plumbing			54.9 6.2			100. 0 100, 0
	² 3, 647, 890				4 8, 682, 922	84.0	Plumbing Roofing and sheet-metal work	194, 245 124, 758	14, 338 111, 758	6.2 48.6	7.4 89.6	406, 817 283, 755	100, 0 100, 0 100, 0
General contractors. Building. Building not specialized Residential building only	⁵ 3, 062, 339 ⁵ 2, 074, 447 1, 698, 785 43, 163	114, 082 114, 082 118, 279 803	100. 0 100. 0 99, 3 .7	$3.7 \\ 5.5 \\ 6.7 \\ 1.9 $	6 7, 503, 703 6 4, 218, 919 3, 260, 619 102, 149	80. 4 79. 7 82. 8 72. 8	Roofing Sheet-metal work Roofing and sheet-metal work combined	^{\$} 585, 551 194, 245 194, 245 124, 758 73, 000 16, 342 35, 410	60, 000 16, 342 35, 416	26. 1 7. 1 15. 4		⁶ 1, 179, 219 406, 817 406, 817 283, 755 175, 000 33, 541 75, 214	

TABLE 10.—COMPARISON OF COST OF DESIGNATED MATERIALS FURNISHED AND USED BY REPORT-ING ESTABLISHMENTS DURING 1929, WITH COST OF MATERIALS AND VALUE OF CONSTRUCTION BUSINESS—Continued

	<u> </u>		<u></u>										
an a			OF DE D MATE			Indi-				OF DE MATE			Indi-
KIND OF MATERIAL AND	Cost of all			cent	Value of	cated per cent		Cost of all		Per	cent (—	Value of	cated per cent
CLASSIFICATION OF ESTAB- LISHMENTS	materials distrib- uted by kind	Amount	Total cost	Cost of all dis- trib- uted ma- ter- ials	construc- tion busi- ness	of all busi- ness done by oWn force ¹	KIND OF MATERIAL AND CLASSIFICATION OF ESTAB- LISHMENTS	materials distrib- uted by kind	Amount	Total cost	Cost of all dis- trib- uted ma- ter- ials	construc- tion busi- ness	of all busi- ness done by own force 1
MISSISSIPPI-Continued				ļ		-	MISSISSIPPI-Continued			ļ	r –]]
Finished flooring (other than cement, wood, or tile)			· · · · *		1. 19 1		Plumbing and gas fitting equipment All classes	\$3, 647, 890	\$151, 269	100.0	4.1	\$8, 682, 922	84.0
All classes				1.5	* \$8, 682, 922	84.0	General contractors Building			2.9	.1	6 7, 503, 703	80.4
General contractors	\$ 3, 062, 339	54, 520	100.0	1.8	⁶ 7, 503, 703	80.4	Building not specialized	⁶ 2, 074, 447 1, 698, 785	4, 389 4, 389	2.9 2.9	.2	⁶ 4, 218, 919 3, 260, 619	79.7 82.8
General contractors. Building Building not specialized Commercial building only. Residential building only.	2,074,447 1,698,785 332,499 43,163	42,500 10,640 1,380	100.0 78.0 19.5 2.5	2, 5 3, 2	856, 151	62.6	Subcontractors Heating and plumbing Plumbing	^{\$} 585, 551 194, 245 194, 245	146, 880 146, 880 146, 880	97.1 97.1 97.1	25. 1 75. 6 75. 6	406, 817	100.0
Heating and ventilating equipment					· ·		Electrical appliances and supplies ²						
All classes	3, 647, 890	148, 427	100. 0	4.1	8, 682, 922	84.0	All classes						
General contractors Building Building not specialized	⁵ 3, 062, 339 5 2, 074, 447	115, 400 115, 400		3.8	⁶ 7, 503, 703 ⁶ 4, 218, 919	80, 4 79, 7	General contractors Building Building not specialized Residential building only	1, 698, 785 43, 163	3, 590 400	$1.5 \\ 1.3 \\ .1$	2 2 2 9	⁶ 7, 503, 703 ⁶ 4, 218, 919 3, 260, 619 102, 149	80. 4 79. 7 82. 8 72. 8
Subcontractors Heating and plumbing Plumbing	194, 245	33, 027	22, 3 22, 3 22, 3	17.0	⁶ 1, 179, 219 406, 817 406, 817	100. 0 100. 0 100. 0	Highway Subcontractors Electrical	458, 513 ^{\$} 585, 551 266, 548		98.3	45. 5	⁶ 1, 179, 219	100. 0

Based upon the difference between the total value of all construction business reported and the value of subcontract work let.
See footnote 2 of Table 0 on page 676.
Includes cost of materials reported by subcontracting establishments which did not include the designated material in their distributed lists.
Includes cost of materials reported by subcontracting establishments which did not include the designated material in their distributed lists.
Includes cost of materials reported by subcontracting establishments which did not include the designated material in their distributed lists.
Includes construction work reported by establishments which did not include designated material in their distributed lists.
Includes construction work reported by establishments which did not include the designated material is their distributed lists.
Includes construction work reported by establishments which did not include the designated material is their distributed lists.
Includes construction work reported by establishments which did not include the designated material is their distributed lists.
Includes construction work reported by establishments which did not include the designated material in their distributed lists.
Includes construction work reported by establishments which did not include the designated material in their distributed lists.

TABLE 11.-COST OF MATERIAL FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929

CLASSIFICATION OF ESTAB- LISHMENTS	Total cost of all ma- terials ¹	COST OF MATERI DISTRIBU BY RI	ALS ITED	Sand, gravel, crushed stone, slag, cinders, etc.	Brick (face, com- mon, fire, pav- ing, etc.)	Tile, (fire- proof- ing)	Tile, fac- ing. terra cotta, fioor, and wall	Con- crete and cin- der block	Cut stone, granite and marble	Cement	Lime	Plaster, etc.	Struc- tural steel	Rein- forcing steel	Cast iron, mis- colla- neous, ex- clud- ing pipe	Metal doors, win- dows, and trim	Metal and wire lath and fur- ring
MISSISSIPPI	85, 176, 566	\$3, 647, 890	70.5	3 \$348,125	8157, 669	\$28, 554	\$94, 708	883, 327	\$209, 838	² 8297,344	\$17, 103	\$114, 082	\$177, 755	\$219, 107	811, 945	\$43, 206	88, 763
General contractors Building Building not specialized_ Commercial building	³ 4,055, 422 2, 711, 169 2, 299, 707	3, 062, 339 2, 074, 447 1, 698, 785	75.5 76.5 73.9	348, 125 91, 058 69, 911	157, 669 156, 799 149, 160	1	1				14, 413	113, 279	98, 721	219, 107 82, 724 69, 474	11, 945 11, 945 9, 945	43, 206 43, 206 16, 456	8, 763 8, 763 8, 763
only Residential building only Highway	332, 499 78, 963 682, 230	332, 499 43, 163 458, 513	54.7 67.2		· ·	(·	1 1		106, 400		282		400 8,380	47.822			
Bridge and culvert Street paving Sower, gas, water, conduit	358, 364	358, 364	100.0 49.3 100.0								368		66, 000	87, 020 1, 541			
Subcontractors Electrical Plumbing and heating Plumbing Roofing and sheet-metal	306, 548	266, 548 194, 245	52, 2 87, 0 29, 9 35, 7														
Roofing and sheet-metal Roofing Sheet-metal work Roofing and sheet-metal	164, 758 98, 000 31, 342	124, 758 73, 000 16, 342	74, 5 52, 1														
combined	35, 416	35, 416	100.0														

TABLE 11.—COST OF MATERIAL FURNISHED AND USED BY REPORTING ESTABLISHENTS DURING 1929-

							00.	nomue	,u									
CLASSIFICATION OF ESTAB- LISTIMENTS	Orna- men- tal metal work	Lum- ber, rough and fin- ished	Laths, shin- gles, and shakes	Mill- work	Com- po- sition board	Water- proof- ing mate- rials	Hard- ware, rough and fin- ished	Paints, var- nishes, and glass	ing	Fin- ished floor- ing n.e.s.	Heat- ing and ven- tila- ting equip- ment	Plumb- ing and gas fitting equip- ment	Elec- trical appli- ances and sup- plies	Pipe: Drain tile, vitri- fied, con- crete, etc.	Pipe: Cast iron, sheet and tube- steel, etc.	Bitu- min- ous pav- ing mate- rials	Freight haul- ing or truck- ing to job	Mis- cel- lan- eous [‡]
MISSISSIPPI	\$14, 705	\$352, 844	\$10, 412	\$300, 494	817, 267	\$14, 037	863, 731	\$44, 295	\$229, 857	854, 520	\$148, 427	\$151, 269	2 8271,288	\$11, 988	\$50, 839	\$45, 717	\$6, 911	\$48, 263
General contractors	14, 705 14, 705	352, 344 260, 446	10, 412 10, 412	300, 494 300, 494	9, 267 9, 267	9,037 7,527	63, 731 53, 063	44, 295 43, 955	103, 761 103, 761	54, 520 54, 520	115, 400 115, 400	4, 389 4, 389	4, 740 3, 990	11,988 1,922	50, 839 10, 000	45, 717	6, 911 523	48, 263 11, 735
Building not special- ized Commercial building	3, 305	220, 957									115, 400							11, 735
only	11, 400			36, 598														
Highway Bridge and culvert		51, 966 39, 900		1,001		1, 510	1,400 9,268	40 300		1, 500 			750	6,066 4,000	10, 839	12, 358 200		1,000 15,100
Residential building only Highway Bridge and culvert Street paving Sewer, gas, water, con- duit		32													30.000	33, 159	6, 388	20.428
Subcontractors					8, 000	5,000			126, 096		33, 027	146, 880	266, 548					
duit									14,338 14,338		33, 027 33, 027	146,880	266, 548					
Roofing and sheet-metal work Roofing					8,000	5,000			111,758									
Roofing Sheet-metal work Roofing and sheet met- al combined									10, 342									
al combined									80,410			1	1		<u> </u>			l

1 Certain establishments did not give a distribution of the cost of their materials by separate items. The total cost of materials reported by such establishments is, however, included in totals in this column which carry a footnote to that effect. See footnote 2 of Table 9 on p. 070. Includes grading, \$5,536. Includes plurmbing and heating combined, \$105,857. Includes the reported cost of screens, shades, awnings, etc.; elevators, dumb-waiters, etc.; wire cable, guards, and fencing; wood piling and timber; and miscellaneous, n. e. s. For total cost of these items see Table 9.

TABLE 12.—NUMBER OF, AND VOLUME OF BUSINESS REPORTED BY ESTABLISHMENTS DOING A CON-STRUCTION BUSINESS OF LESS THAN \$25,000 IN 1929, PERCENTAGE OF TOTAL NUMBER OF KNOWN ESTABLISHMENTS, AND AVERAGE VOLUME PER ESTABLISHMENT

					ississippi ilation, 2, (09, 821		
	Know	n contract	ing establi	shmonts		Volume of	business repor	ted
TYPES OF WORK				3 in 1929	Number of re-			Average
	Total number	Inactive in 1929	Number	Per cent	porting estab- lish- ments	Per cent of active	Amount	per estab- lishments
Total establishments canvassed (less than \$25,000)	367	10	357					
Total establishments, type of work unknown Total general and subcontractors classified	5 362	10	5 352	100.0				
Total general contractors classified	172	5	167	47.4	32	19.2	\$382, 287	\$11, 946
Building Highway Bridge and culvert	141 22 7 7 1	4	$ \begin{array}{r} 137 \\ 22 \\ 7 \\ 1 \end{array} $	38.9 6.3 2.0 .3	28 3 1	20.4 13.6 100.0	324,787 47,500 10,000	11,600 15,833 10,000
Paving Dredging, river and harbor Total subcontractors classified	î	1		52.6	37	20, 0	248, 235	6, 709
Carpentering	33	2	31	8.8 2.3	6	19.4	18, 420	3, 070
Electrical	39		39 2	$1\overline{1}, \overline{1}$	6	15.4	70, 261	11, 710
Concreting Electrical. Heating, piping, and ventilating. Plumbing and heating. Masoury. Painting and decorating. Glass and glazing. Plastering. Roofing and sheet metal. Marble and tiling. Warcking.	8 46 7 31 2 4 12 3 1	1 1	$ \begin{array}{r} 246 \\ 77 \\ 30 \\ 2 \\ 4 \\ 12 \\ 3 \\ 1 \\ 1 $	13.1 2.0 8.5 .0 1.1 3.4 .9 .3	7 2 9 1 1 2 2 2 1	15, 5 28, 6 30, 0 50, 0 25, 0 16, 7 66, 7 100, 0	$\begin{array}{r} 74,710\\7,150\\18,873\\16,493\\2,000\\12,819\\22,500\\6,000\end{array}$	$\begin{array}{c} 10,674\\ 3,575\\ 2,097\\ 15,493\\ 2,000\\ 6,410\\ 11,250\\ 6,000\end{array}$

TABLE 13.—ESTABLISHMENTS (WHOSE BUSINESS WAS LESS THAN \$25,000 IN 1929) WHICH REPORTED THEIR VOLUME OF CONSTRUCTION WORK, CLASSIFIED BY RANGE OF VOLUME OF BUSINESS

CLASSIFICATION	Tota	Less than \$2,500	\$2,500 to \$4,999	\$5,000 to \$7,499	\$7,500 to \$9,999	\$10,000 to \$12,499	\$12,500 to \$14,999	\$15,000 to \$17,499	\$17,500 to \$19,999	\$20,000 to \$22,499	\$22,500 to \$24,999
MISSISSIPPI Total general and subcontractors	69	18	7	8	3	9	5	10	2	4	3
General contractors	82 37	5 13	1 6	3 5	$\frac{1}{2}$	7 2.	4 1	3 7	2	3 1	3

MISSOURI

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94 MERCER ATCHISON WORTH PUTNAM Oution RRISO · Reciper Sec. ۳» @ GRUNDY (🛞 Mi HOLT GENTRY . 61 **AVIESS** DE KALB IIN N ন্দু c d SHELBY nefè) Mayavil ໂຄເ Mathan R CALDWELL HANNU CLINTON TVINGST IONROE) Kini HARITO 0 ^үсс, CARROLL Paris LATT . M03 IKE ΑY RANDOLPH CLAY .Q. к]ч ињ © AUDRAIN OWARD ് ñ. BOÓNE Lexindia ő OL OINDEPENT NCE LAFAYETTE L N E 5 A Set Charles ST. N ST. CHARLES ST. N ST. CHARLES LOUISY Christian St. Coll. LOUIS Christian St. Coll. LOUIS Christian St. Coll. Louis Christian St. Coll. Coll. St. Coll. S COLUM ACKSON JOHNSON . Felta ETTIS õ CASS SEDALIA нема Grand BENTO BATES Osage ST. CLAR AWFOR R ELVER Ste. Genevieve STE. HICKORY PULASKI ADEN ò 0 N GENEVIEVE S. PERRY ۲ DALLAS of LK Ð N т 0 C A B SARTON 6 RARDE @ Lona иерате VRIGH GR JOPLIN Re LAWRE SPRINGFIELD ، 🖲 Gaark NEWTON . 10 ยัย 10 ยัย LE . CHRISTIAN ⊕_{N≥rabe} U T STODDAR 3 ٨ HOWEL BARRY OZARK ۲ Alten © E G MC DONALD Wani Ma A_R E . Astrille Willy SCALE MILES

MISSOURI

TABLE 1.—VALUE OF CONSTRUCTION BUSINESS DURING 1929, AND PRINCIPAL ITEMS OF EXPENDITURE [Values expressed in thousands]

								ed in thousands]	,						
	-dsild	VAI.UE TION	OF CONS	TRUC- SS	PRINC	IPAL ES	CPEND-	an de la composition de la composition La composition de la c	-hish-		OF CONS			PAL EX ITURES	
AREA, CLASSIFICATION OF ES- TABLISHMENTS, AND SIZE OF BUSINESS GROUPS	Number of establish- ments	Total	Under general con- tract or directly for owner	Under sub- con- tract	Sub- con- tract work let	Wages paid	Cost of ma- terials	AREA, CLASSIFICATION OF ES- TABLISHMENTS, AND SIZE OF BUSINESS GROUPS	Number of establish- ments	Total	Under general con- tract or directly for owner	Under sub- con- tract	Sub- con- tract work let	Wages paid	Cost of ma- terials
MISSOURI	759	\$152, 664	<u>\$120, 419</u>	<u>\$32, 245</u>	\$32, 368	\$36, 996	852, 422	KANSAS CITY	199	\$43, 276	\$34,770	\$8, 505	\$5, 913	\$12, 131	\$15, 733
Counties and principal cities Counties:				5 (A. 1			n a si a si	Classification of establish- ments				an a	84 1911 - 191		n da h
Boone	7 33 3	700 3, 145 355	494 2, 353 355	792	163 476 7	1 104	1,202	Operative builders	18 77		5, 006 25, 282	128	1, 150 4, 287		1
Buchanan Butler Cape Girardeau Cass Cole Cooper Greeno Howell Jackson Jasper Marion Pottis St. Louis St. Louis St. Louis Saline		1, 263 223 291	1, 224 223 259		· 7	90	1 75	Building Building not specialized Commercial building only	41 30		13, 224 10, 318		3, 927 2, 985	2,511	4,430
Cooper Greene	4 4 19	$\frac{499}{3,481}$	494 2,955	526	40	181 1.043	60 1, 391	Kesidentiai onuong oniv	7 4 14	1, 507 1, 402 2, 609	1, 507 1, 402 2, 568		403 470 184	388 257 723	443
Howell Jackson	203 15	191 43, 451 1, 709	$ \begin{array}{r} 141 \\ 34,873 \\ 766 \end{array} $	50 8, 578 943	5, 966	50 12, 188 501	15,744	Highway Grading Street paving	3	320	320 481	80	ī	117 120	23 291
Marion Pettis		485 532	482 392	3 140	29 48	116	203 169	Railroad, bridge and culvert. Other classes 7	4 7 8	6, 173 2, 521	6, 168 2, 521	5	69 106		2, 174 1, 066
St. Louis St. Louis City Saline	35		70,922	19,794	575 23, 534 30	19,788	1, 199 29, 947 167	Subcontractors	11 6	1,481		1, 119		540	328
Other counties 1	- 31	2, 297	2,000	297	441	621	702	Heating and plumbing	17 28 11	5,000	457 2,070 997	2,925	231	324 1, 234 594	2, 348
Kansas City St. Louis	- 375		34, 770 70, 922	8, 505 19, 794	5, 913 23, 534	12, 131 19, 788	15, 733 29, 947	Electrical Heating and plumbing Heating and plumbing Plumbing ombing and heating ombing Balviting and descenting	7	2,041	728	1, 313	40	471	1,048
Classification of establish ments										604	1 303		[3 169 . 382 . 63	. 91
Operative builders	1 1		1	849	3, 480 27, 415		1	Glass and glazing Plastering and lathing Roofing and sheet-metal work	5	606	28	581	18	8 262	219
General contractors Building Building not specialized	189	90, 494 57, 147 46, 825	56, 553 46, 542	593	24, 655	10, 294	14,651	work Roofing Sheet-metal work	18 12 6	758	407	351	2	2 277 2 138 139	379
Commercial building only Residential building only	20	4, 559 5, 763	4,559 5,452	311	1,130 2,496	725	2, 106 1, 478 2, 493	Marble and tiling Metal work, n. e. s. § Other classes §	10 4 7	711 441	132	579 393		215	283 26
Highway Bridge and culvert Grading	46 14 14	5, 702	5,614	88		2, 100	1,791	Other classes • Size of business groups	7	1, 549	589	961	230	563	22
Street noving	1 95	2,746	2,740	80	266	921 749	931	General contractors 4	6 1		212		5, 437 60	8, 218 57	42
Sewer, gas, water, conduit. Dredging, river, harbor, etc. Levee Railroad		599	2, 129 572 4, 673	27	143 102 135	139	10	\$50,000 to \$99,999 \$100,000 to \$199,999	24	1,841	1,822	85	507	409	1,154
Central station, light and power plant Other classes 3	1 1	3, 474	3, 474		20	850	1,769	\$200,000 to \$499,990 \$500,000 to \$999,999 \$1,000,000 and over	- 8	5,042	5,042		1,760 392 1,634	1, 473	1,990
	(1	8, 574 44, 569	8, 574 13, 172	 31, 396	1, 182 1, 473	1	1 1	Building contractors ⁶ \$25,000 to \$49,999	59 5	18, 230 167	18, 230 167		5,077	4, 525 40	6, 255 42
Subcontractors Carpentering and wood flooring Concreting.	6	446 4,459	1.060	3, 300	10 23	117 1, 530		\$50,000 to \$99,999 \$100,000 to \$199,999	16 15	1,210 2,177	1, 210 2, 177		384 1,012	428	611
Elevator construction	02	4, 865 1, 612	1, 820 249	8,045 1,363	1	1, 741 371	1,959 1,012	\$200,000 to \$499,999 \$500,000 to \$999,999 \$1,000,000 and over	15 4 4	4,826 2,816 7,034	2,816		1, 058 329 1, 634	1,015	1,120
Heating and plumbing Heating and piping ' Plumbing and heating combined	121 36 60	13, 116 5, 160 6, 426	4, 898 2, 755 1, 410	8, 218 2, 405 5, 016	534 429 96	1, 258	2,483 [Subcontractors	104	12, 862	4, 482 397	8, 379	476		4, 902
Plumbing and heating combined	25	1, 530	733	797	. 0	384	850	\$25,000 to \$49,999 \$50,000 to \$09,999 \$100,000 to \$199,999	40	2, 912 2, 667	854 946	2,058 1,721	35 208	944 695	1,234
Masonry Painting and decorating Glass and glazing	18	3, 043 1, 846 812	321 686 250	2, 722 1, 160 562	7	1, 058 1, 091 195	360	\$500,000 to \$999,999	3	1,900	1, 357 520 410	$1,815 \\ 1,380$	12	1 567	717
Plastering and lathing Roofingandsheet-metalwork	10	885	54	831 1.905	13	408 718	$\frac{286}{1,282}$	\$1,000,000 and over ST. LOUIS	375	1,092 90,716	1		ĺ	19,788	1
Rooting Sheet-metal work Steel erection		1,015	800 161 706	1, 051 854 849	38 376	302	831 451 593	Classification of establish- ments	 .						
Stone work Marble and tiling	. 5 34	878 2, 936	118 448	760 2,488	12	199 894	511 1, 215	Operative builders	14	, i	· ·		1, 994		343
Excavating Ornamental iron Grading			112 27	1, 018 523 123	59 5			General contractors Building Building not specialized	145 91 63	61, 040 37, 016 30, 359	36,501	516 456 145		5.354	18, 150 7, 678 5, 396
Grading Railroad, bridge and culvert Metal work, n. e. s	. 3	1,233 1,415	354 408	879 947	247	444 330 266	317	Commercial building only_ Residential building only_	11 17	2,994 3,664	2,994	311	630 1,783	331 613	1, 407 785 478
Other classes b Size of business groups	. 4	800	457	343	143	200	124	Highway Bridge and culvert	6 6 7	1,210 2,155 692	1,210 2,094 692	81	69 7 232	274 891 206	509
General contractors 6 \$25,000 to \$49,099 \$50,000 to \$99,999	368 66	2, 332	107, 246 2, 320	849 12 65	30, 895 513	638	647	Grading Street paving Sewer, gas, water, conduit Levee ¹⁰	20 6	4,059	4, 059 1, 854		263	647 544	1, 830 580
\$100 000 to \$100 000	1 011	6, 466 13, 237 24, 898	6, 401 13, 047 24, 760	65 190 138	4, 248	2,607	3,700 [Railroad Other classes 11	330	1, 596 1, 496	1,596		143 66	760	276
\$200,000 to \$499,999 \$500,000 to \$999,999 \$1,000,000 and over	22 22 22	24, 898 14, 958 46, 205	14, 647	311 133	2,606	4, 124	5.080		3 216	10, 962 26, 733	10, 962 7, 455	19, 278	1, 072 736		0, 442 11, 453
Building contractors 4 \$25,000 to \$49,999 \$50,000 to \$99,999		65, 748 1, 466	65, 155 1, 466	593	28, 135 479			Subcontractors Carpentering and wood flooring Concreting	3	269	184 667	85 1,898	10		113 902
\$100.000 to \$199.999	54	3,749 7,564	3,717 7,564	32	1,457 3,651 6,523	702	1,192 1.674	Electrical Elevator construction	13 39 8	2,565 3,410 1,612	1, 317 249	2,093 1,363	1	1,202 371	1, 315 1, 012
\$200,000 to \$499,999 \$500,000 to \$999,999	50	15, 520	15,403 7,867 29,137	117 311 133	6, 523 2, 477 13, 548	2, 892 1, 751 4, 968	4, 081 2, 773 6, 764	Heating and plumbing Heating and piping ¹²	59 22 37		2, 158 1, 648 510	4,153	300 246 54	1,753	3,213
\$1,000,000 and over	1 1	44, 569	13, 172	31, 396	1, 473	13, 601	18.566	Plumbing Masonry Painting and decorating ¹³	37 10 12	3, 513 2, 790 1, 608	292 609	3,002 2,497 999	- 3 - 7	971	1, 744 1, 267 475
Subcontractors	. 138	4,741	1, 247 2, 525	3, 494 7, 544	29 115 374	1, 515 3, 126 3, 067	1,909 4,316	Plastering and lathing Roofing and sheet-metal work	5	279	29	250 831	 01	145 800	67 450
\$100,000 to \$199,999 \$200,000 to \$499,999 \$500,000 to \$999,999	41	11, 864 4, 143	3, 564 4, 084 1, 342	6, 815 7, 780 2, 801	348 522	$3,820 \\ 1,142$	4,987	work Roofing Sheet-metal work	19 13 6	1, 148 841 307	317 312 5	529 302	8	221 79	332 118
\$1,000,000 and over See footnotes at end of tab	3	3, 375	410	2,965	85	933	1,611	Steel erection	Б	1, 278	697	581	376	197	448

See footnotes at end of table.

TABLE 1.-VALUE OF CONSTRUCTION BUSINESS DURING 1929, AND PRINCIPAL ITEMS OF EXPENDITURE-Continued Walnes avprassed in thousands]

		_				[values	expresse	a in thousands							
	estab-		OF CONS BUSINE		PRINC	IPAL EX ITURES			estab-		OF CONS			PAL EX ITURES	
AREA, CLASSIFICATION OF ES- TABLIBHMENTS, AND SIZE OF BUSINESS GROUPS	Number of e lishments	Total	Under general con- tract or directly for owner	Under sub- con- tract	Sub- con- tract work let	Wages paid	Cost of ma- terials	AREA, CLASSIFICATION OF ES- TABLISHMENTS, AND SIZE OF BUSINESS GROUPS	Number of e lishments	Total	Under general con- tract or directly for owner			Wages paid	Cost of ma- terials
ST. LOUIS-Continued.								ST. LOUIS-Continued.							
Classification of establish- ments-Continued								Size of business groups- Continued							· .
Subcontractors—Continued. Stone work. Marble and tiling Excavating and grading Ornamental iron. Metal work, n. e. s. Size of business groups	4 20 10 4 10	\$843 1,917 903 520 1,282	314 47 27	\$724 1, 603 857 494 852	\$12 14 5	\$190 622 377 110 313	\$499 793 270 625	General contractors—Con. Building contractors • \$25,000 to \$49,999 \$100,000 to \$199,999 \$200,000 to \$199,999 \$200,000 to \$499,999 \$200,000 to \$999,999 \$1,000,000 and over	105 13 20 24 31 6 11	\$39, 961 479 1, 521 3, 278 9, 267 4, 244 21, 172	479	 12 311	\$20, 946 198 871 2, 099 4, 418 1, 993 11, 367	\$5, 585 99 199 387 1, 500 584 2, 816	126 250 341
General contractors ⁶ \$25,000 to \$49,990 \$50,000 to \$49,999 \$100,000 to \$199,000 \$200,000 to \$499,960 \$500,000 to \$499,969 \$1,000,000 and over	159 21 30 35 47 11 15	63, 984 766 2, 268 5, 173 14, 097 7, 966 33, 713	2,268 5,113 14,085 7,655		22, 798 203 882 2, 364 4, 708 2, 059 12, 582	203 460 711 2, 474 1, 906	176 507 1,083 3,901 2,291	Subcontractors_ \$25,000 to \$49,099 \$50,000 to \$99,999 \$100,000 to \$199,999 \$200,000 to \$409,999 \$500,000 to \$990,999 \$1,000,000 and over	216 63 75 44 80 2 2	26, 733 2, 253 5, 464 6, 479 8, 663 1, 592 2; 282	429 1, 387 2, 311	1,824	28 53 93 212 350	8, 273 779 1, 719 2, 007 2, 784 366 618	880 2, 179 2, 714 3, 887 518

⁶ Includes operative builders.
 ⁷ Includes sever, gas, water and conduit; dam and reservoir; waterworks; dredging, river and harbor, etc.; central station, light and power plant; and telephone line and system.
 ⁸ Includes stele erection and ornamental fron.
 ⁹ Includes exevating; bridge and culvert; sewer, gas, water and conduit; railroad; power plant work; and miscellaneous, n. e. s.
 ¹⁰ Includes credging, river and harbor, etc.
 ¹¹ Includes credging, river and harbor, etc.
 ¹² Includes pipe covering; and plumbing and heating combined.
 ¹² Includes glass and glazing; and flooring, n. e. s.

TABLE 2.—CONSTRUCTION BUSINESS OF REPORTING ESTABLISHMENTS DURING 1929, BY CLASS OF OWNERSHIP AND BY TYPE OF WORK

		CONSTRUCTIO	ON B	USINESS REI	ORTI	ED BY-	l.		ONSTRUCTIO	N BU	SINESS REF	ORTH	D вч—
CLASS OF OWNERSHIP AND TYPE	esta	l classes of blishments	t	eneral con- ractors ¹		bcontrac- tors	CLASS OF OWNERSHIP AND TYPE	esta	l classes of blishments	t	neral con- ractors ¹		bcontrac- tors
OF CONSTRUCTION WORK	Number	Value	Number	Value	Number	Value	OF CONSTRUCTION WORK	Number	Value	Number reporting	Value	Number reporting	Value
MISSOURI							MISSOURI-Continued						
All construction business Distribution not reported	759 37	\$152,663,525 4, 314, 777	7	\$108,094,923 1, 472, 788	30	\$44,568, 602 2, 841, 989	All business under general contract or directly for owners—Contd. Distributed by class—Continued. Public works and utilities—Con.						
Distributed by class of ownership Private Quasi public or community Public Distribution not reported	722 611 153 278 26	$\begin{array}{c} 148, 348, 748\\ 104, 657, 417\\ 9, 099, 048\\ 34, 592, 283\\ 1, 403, 994 \end{array}$	361 263 40 155 8	106, 622, 135 70, 128, 882 6, 052, 046 30, 441, 207 814, 744	361 348 113 123 18	41, 726, 613 34, 528, 535 3, 047, 002 4, 151, 076 589, 250	Park, grounds, etc. River and harbor improve- ment. Sowage disposal and drainage	3 6 25	\$8, 765 3, 514, 709 2, 764, 244 946, 285	6 22 9	\$3, 514, 709 2, 742, 148 857, 320	3	\$8, 765 22, 096 88, 969
Distributed by class of public ownership Federal State County or township Municipal	252 35 75 87 155	33, 188, 289 6, 709, 997 7, 759, 568 4, 203, 048 14, 515, 678	47	6, 557, 220 6, 648, 295 3, 756, 175	105 19 22 40 73	3, 561, 826 152, 777 1, 111, 271 446, 873 1, 850, 905	Water supply Other classes ⁸ Miscellaneous Air transport work Miscellaneous, n. e, s ⁴ All business under subcontract Distribution not reported	4 9 849 2	7, 773, 907 87, 003 21, 092 664, 373 32, 244, 991 282, 757	3 2 4 6 17	(2) (2) 21, 092 103, 466	2 2 332 2	31, 396, 296 282, 757
All business under general contract or directly for owners Distribution not reported Building Distribution not reported	2 536 304 29	120, 258, 534 75, 808, 670 2, 972, 029	365 234 14		171 160 15	13, 172, 306 13, 172, 306 10, 660, 336 1, 478, 028	Distributed by class Carpentering and wood flooring. Concreting Electrical Heating and plumbing Heating and plumbing ⁵ Plumbing Plumbing and heating com-	33 53	$\begin{array}{c} 31, 962, 234\\ 349, 731\\ 4, 364, 746\\ 3, 082, 106\\ 1, 431, 791\\ 8, 126, 294\\ 2, 279, 611\\ 721, 901\\ 4, 724, 661 \end{array}$	9 1	848, 695 (²) 646, 888 (²) 19, 505 (²)	330 7 24 52 4 	31, 113, 639 (²) 3, 717, 857 (²) 1, 431, 791 8, 106, 789 (²) 721, 901
Distributed by class Commercial Educational Hotol Hotol Manufacturing Military and naval Public: Courts, jails, etc Religious and memorial Residential Social and recreational Air transport Rail and water transpor- tation Miscellaneous Highway and street Railghway and street Railghway and street Bridge, tunnel, etc Central station. light and	37 15 9 62 103 17	20, 740, 676 4, 943, 961 3, 062, 286 3, 195, 203 7, 178, 738	45 15 23 30 1 12 35 142 20 9 5 31 101 15	$\left.\begin{array}{c} 18,474,8061\\ 4,181,809\\ 2,833,823\\ 2,004,204\\ 6,102,879\\ 3,602,147\\ 2,174,783\\ 18,053,467\\ 2,351,540\\ 584,662\\ 273,634\\ 1,904,420\\ (2)\\ 23,202,446\\ 4,438,584\\ \end{array}\right.$	34 44 97 17 6 4 31 2 23 5	40, 431 39, 365 1, 514, 079 (?) (?) 1, 761, 107 476, 778	Plumbing Plumbing and heating com- bined Masonry Painting and decorating Glass and glazing Plastering and lathing Roofing and sheet-metal work Roofing Sheet-metal work Steel erection Stoee work Marble and tiling Wrecking Excavating Ornamental iron Highway Grading Sewer, gas, water, conduit Dam and reservoir	9 14 16 7 10 26 25 8 6 32	400, 121 2, 356, 215 1, 134, 427 605, 675 831, 198 1, 911, 524 1, 059, 746 851, 778 828, 314 742, 138 2, 476, 831 1, 120, 439 324, 936		(²) } (²)	72 9 13 10 7 10 	(*) 400, 121 (*) 1, 134, 427 605, 675 831, 193 (*) (*) 851, 778 828, 314 (*) 2, 475, 831
power plant Dock, pler, retaining wall, etc Flood control, irrigation, and land drainage See footnotes at end of table.	21 4 5	4, 417, 428 17, 715 578, 191	11 4 4	3, 373, 831 17, 715 (²)	10 1	1, 043, 597 	Railroad 6	3 11 5	868, 326 881, 084 106, 408	1	(*)	3 11 4	868, 326 881, 084 (2)

See footnotes at end of table.

TABLE 2.—CONSTRUCTION BUSINESS OF REPORTING ESTABLISHMENTS DURING 1929, BY CLASS OF OWNERSHIP AND BY TYPE OF WORK—Continued

							TE OF WORK Continue						
	CONSTRUCTION BUSINESS REPORTED BY-							co)NSTRUCTION	I BU	SINESS REPO	RTEI	эв⊽—
CLASS OF OWNERSHIP AND TYPE OF CONSTRUCTION WORK		classes of blishments		neral con- ractors 1	Su	bcontrac- tors	CLASS OF OWNERSHIP AND TYPE OF CONSTRUCTION WORK		classes of blishments	Ge t	neral con- ractors ¹	Sul	tors
	Number reporting	Value	Number reporting	Value	Number reporting	Value		Number reporting	Value	Number reporting	Value	Number reporting	Value
KANSAS CITY All construction business Distribution not reported Distributed by class of ownership.	8		- 94	\$30, 414, 143 344, 000 30, 070, 143		12, 288, 970	ST. LOUIS—Continued All construction business—Con. Public. Distribution not reported	126 12	\$18, 492, 492 886, 009	54 2	\$15, 954, 019 493, 171	72 10	\$2, 538, 473 392, 838
Private. Quasi public or community Public. Distribution not reported	166 35 59 2	$\begin{array}{c} 31,421,134\\ 1,947,851\\ 8,990,128 \end{array}$	72 5 33	21, 028, 269 1, 070, 496 7, 971, 378 25, 564	94 30 26 1	10, 392, 865 877, 355 1, 018, 750 65, 000	Distributed by class of public ownership	114 18 22 34	17, 606, 483 4, 383, 007 1, 993, 185 1, 714, 801 9, 515, 490	52 7 13 15 36	15, 460, 848 4, 297, 435 1, 436, 298 1, 539, 260 8, 187, 855	19	2, 145, 635 85, 572 556, 887 175, 541 1, 327, 635
Distributed by class of public ownership	15	2, 237, 607 1, 904, 249 1, 234, 290	9 13	2, 192, 036 1, 672, 097 1, 051, 980	5	953, 750 45, 571 232, 152 182, 310 493, 717	All business under general con- tract or directly for owners Distribution not reported Distributed by class	242	70, 922, 266 160, 000	159 2		83	7, 455, 348 7, 455, 348 6, 636, 112
All business under general con- tract or directly for owners Building	156 113 9		5		4	3,105,921 213,347	Building Distribution not reported Distributed by class Commercial Educational Hotel Hospital and institutional		70, 762, 266 46, 726, 639 1, 848, 296 44, 878, 343 11, 622, 269 3, 860, 559		641,665	9	1, 206, 631 5, 429, 481 1, 550, 051
Commercial Educational Hotel Hospital and institutional	49	6, 808, 047 133, 500 113, 853 281, 754 2, 596, 252	28 4 2 5 6	17, 339, 507 6, 274, 299 40, 255 (²) 177, 410 2, 336, 810	$10 \\ 4 \\ 10 \\ 10 \\ 11$	623, 748 93, 245 $(^2)$ 104, 344 259, 442	Hotel. Hospital and Institutional. Manufacturing. Military and naval. Public: Courts, jails, etc Religious and memorial. Residential.	- 21 - 38 - 39 - 19 - 19	f a, 100, 040	1 7	$\begin{bmatrix} 2, 728, 950 \\ 3, 690, 575 \\ 3, 631, 015 \end{bmatrix}$	1	117, 193 668, 412 132, 828
Manufacturing Public: Courts, jails, etc Residential Social and recreational Air transport Rail and water transportation	12	266, 360 7, 558, 994 841, 307	6 33 2	6, 663, 909	35	(2) 37, 782 895, 085 (2) 71, 024	Residential Residential Social and recreational Air transport Rail and water transporta- tion	- 4	10, 855, 068 1, 706, 849 367, 410	73		2	3, 978
Miscellaneous Highway and street Railroad and car line Public works and utilities	18 20 20	1, 240, 057 3, 672, 674 2, 343, 557 7, 124, 749	8 24 6 19	704, 697	10 1 1	535, 360	Miscellaneous Highway and street Rairoad and car line Public works and utilities Bridge, tunuel, etc Central station, light and		5, 596, 943 1, 883, 129 16, 498, 181	11 20 20 10	5, 596, 943 1, 883, 129 15, 689, 519		808, 662 (²)
Bridge, tunnel, etc. Central station, light and power plant. Dock, pler, retaining wall, etc. River and harbor improvement. Sewage disposal and drainage. Flood control, irrigation and		2, 439, 709 725, 950	11 3	2, 439, 709		602, 745	Dock, pier, retaining wall, etc Flood control, irrigation and land drainage Biver and habor improve-	- 2]	2, 953, 756		440, 852
Flood control, irrigation and land drainage		737, 586		(2) (2)		(2) 	ment		} 7, 870, 665) 1, 781, 268 2) (²)	1	(?) 55, 810
All business under subcontract Concreting and stone work Electrical	. 88 14	8, 505, 438 1, 219, 212 677, 311 2, 775, 190	42	128, 198 (²)	14	8, 379, 243 (2) 677, 311 2, 775, 190	Water support Refuse disposal plant Park, grounds, etc. Miscellaneous Air transport work Miscellaneous, n. e. 8. All business under subcontract Distribution not reported		19, 794, 041 255, 000	1		1	19, 277, 690 255, 000
Heating and piping ⁶ Plumbing and heating com- bined Painting and decorating Glass and glazing		2 1, 062, 989 214, 164 300, 997			45	1,062,989 214,164 300,997	Distributed by class. Carpentering and wood flooring Concreting. Electrical Elevator construction.		116, 206 2, 688, 344 2, 076, 989			184 4 13 32 4	(19, 022, 690 (2) 2, 274, 618 2, 076, 989 1, 431, 791 (3) 1, 053, 563
Plastering and lathing Roofing and sheet-metal work Roofing Sheet-metal work Steel erection ¹⁰	 8 	227, 217 581, 030 683, 257 8 345, 574 335, 700			8 	683, 257 345, 574 337, 683 335, 700	Heating and plumbing Heating and piping Pipe covering Plumbing. Masonry Painting, decorating, and glaz-	- 20 42	1,053,563 117,027 3,010,035	;	(2) (2) (2) (2)	41 10	(2) (2) (3)
Marble and tiling Wrecking Excevating Grading Other classes ¹¹		560, 147 217, 699 927, 678	1 1	(2) (2)	9 2 6	(2)	ing Plastering and lathing Roofing and sheet-metal work_ Roofing Sheet-metal work		831, 775 528, 261 303, 514	 1		7 5 11 10 5	(1) (1) 303, 514 503, 288
ST. LOUIS All construction business Distribution not reported Distributed by class of ownership.	. 20	2, 987, 325	5	1,099,788		26, 733, 038 1, 887, 537 24, 845, 501 20, 657, 225 1, 649, 803	Steel erection Stone work. Marble and tiling. Excavating and wrecking. Ornamental iron. Metal work, n. e. 8.		003, 288 722, 261 1, 599, 895 813, 322 279, 262 802, 409			4	279, 262 802, 409
Private Quasi public or community	. 322	5, 670, 397	17	4, 020, 594	58	1, 649, 803	Metal work, n. e. 8 Other classes ¹²	- 8	126, 495				126, 495

¹ Includes operative builders.
¹ Value omitted in order to avoid disclosing individual operations. The amounts omitted are, however, included in the respective totals.
¹ Value omitted in order to avoid disclosing individual operations. The amounts omitted are, however, included in the respective totals.
² Includes establishments reporting the following types of work: General contractors: Oil and natural gas pipe line, 2; telephone line and system, 1. Subcontractors: Includes one subcontracting establishment reporting automatic sprinkler system.
⁴ Includes 1 establishment reporting bridge and culvert.
⁴ Includes 1 establishments reporting the following types of work: General contractors—Miscellaneous, n. e. s., 1. Subcontractors—Street paving, 1; sound proofing, 1; rental of equipment, 1; flooring, n. e. s., 1; and miscellaneous, n. e. s., 1.
⁴ Includes 2 establishments reporting the following types of work: Pipe covering, 2; and automatic temperature control, 1.
⁴ Includes 2 establishments reporting the following types of work: General contractors: Miscellaneous, n. e. s., 1; Subcontractors and wood flooring, 1; bridge and culvert.
⁴ Includes 2 establishments reporting to following types of work: Pipe covering, 2; and automatic temperature control, 1.
⁴ Includes 2 establishments reporting the following types of work: General contractors: Miscellaneous, n. e. s., 1; Subcontractors: Carpentering and wood flooring, 1; bridge and culvert, 1; sewer, gas, water and conduit, 1; railroad, 1; metal work, n. e. g., 2.
⁴ Includes establishments reporting the following types of work: General contractors: Miscellaneous, n. e. s., 1; Subcontractors: Carpentering and wood flooring, 1; bridge and culvert, 1; sewer, gas, water and conduit, 1; railroad, 1; metal work, n. e. g., 2.
⁴ Includes establishments reporting the following types of work: General contractors: Miscellaneous, 1; rental of equipm

TABLE 3 .- CONSTRUCTION BUSINESS DURING 1929, BY LOCATION

							<u> </u>				
CLASSIFICATION OF ESTABLISH- MENTS	Establishments reporting	Total	In home city	In home State	Outside home State	CLASSIFICATION OF ESTABLISH- MENTS	Establishments reporting	Total	In home city	In home State	Outside home State
MISSOURI	746	Dollars 148, 576, 765	Dollars 84, 972, 382	Dollars 110, 467, 480	Dollars 38, 109, 285	KANSAS CITY—Continued. Subcontractors		Dollars	Dollars 6, 251, 534	Dollars 7, 964, 450	Dollars 4, 786, 583
Operative builders	36	8,601,362	7, 599, 104	8, 085, 604	515, 758	Congrating	8	1, 480, 576	180, 590 876, 482	414, 263 887, 971	$1,066,313 \\85,522$
General contractors Building Building not specialized Commercial building only	323 184 134 20	15 002 202	47, 197, 895 36, 057, 998 27, 131, 988	66, 991, 774 42, 817, 761 33, 299, 202 4, 462, 546	29, 447, 332 12, 944, 834 12, 399, 090 96, 494	Electrical Heating and plumbing Heating and plping ² Plumbing Plumbing and heating com-	16 28 11 7	5,000,165 2,272,993	2, 208, 172	3, 092, 349 1, 107, 906 1, 371, 644	1, 907, 816 1, 165, 087 068, 965
		5, 505, 263 7, 678, 548 4, 191, 896	182,781	66, 991, 774 42, 817, 761 83, 209, 202 4, 462, 546 5, 056, 013 6, 753, 694 1, 932, 246 811, 881 5, 475, 839	06, 494 449, 250 924, 854 2, 259, 650 333, 712 80, 000	Painting and decorating Glass and glazing Plastering and lathing Profine and short metal work	10 6 3 5	$\begin{array}{c} 603,505\\ 227,217\\ 606,321\\ 1,159,206 \end{array}$	$ \begin{array}{r} 162, 181 \\ 228, 271 \\ 1, 006, 341 \end{array} $	612,799 506,455 178,190 349,295 1,065,337 697,491	73, 764 7, 050 49, 027 257, 026 93, 869
Hesidential building Only Highway Bridge and culvert Grading. Street paying Sewer, gas, water, conduit Dredging, river, harbor, etc. Railroad Central station, light and power plant	10 3 8 5	2, 745, 597 2, 129, 323 4, 677, 973	1, 589, 941 800 127, 836	5, 475, 839 1, 710, 941 1, 794, 339 2, 128, 147 2, 836, 891	80, 000 1, 034, 650 334, 984 2, 549, 826 636, 653	Roofing. Sheet-metal work. Marble and tiling. Metal work, n. e. s. ⁶	12 6 10 4 7	758, 398 400, 808	665, 095 341, 246	697, 491 367, 846 583, 717 346, 436 450, 437	80, 907 32, 962 126, 956 94, 116 1, 098, 888
Other classes 1	Ť	3, 473, 544 9, 078, 198	393, 034	730, 035	8, 348, 163	ST. LOUIS		87, 886, 170	56, 581, 801		20, 787, 193
Subcontractors	387			35, 390, 102	8, 146, 195	Operative builders	· · · · · ·	2, 943, 747	2, 739, 947	2, 943, 747	
Subcontractors Carpentering and wood floor- ing Concreting Electrical Elevator construction Heating and plumbing Heating and piping ² Plumbing Plumbing and heating com	$ \begin{array}{c} 6\\ 24\\ 61\\ 3\\ 120\\ 36\\ 59\\ \end{array} $	4, 754, 915 1, 611, 809 12, 805, 671 5, 160, 425	266, 972 2, 513, 083 3, 940, 568 889, 709 9, 073, 638 2, 908, 261 4, 857, 460	2, 936, 145 4, 088, 229 1, 245, 719 10, 688, 432 3, 799, 682	$1, 166, 913 \\666, 686 \\366, 090 \\2, 117, 239 \\1, 360, 743$	General contractors. Building Building not specialized Commercial building only Desidential building only	141 90 62 11	59, 131, 190 36, 668, 145 30, 010, 643 2, 993, 757 3, 663, 745 1, 209, 560	$\begin{array}{c} 24,561,854\\ 18,766,759\\ 2,543,100\\ 3,251,995\\ 174,430\\ 333,951 \end{array}$	2, 897, 263 3, 251, 995 1, 117, 493 373, 196	$\begin{array}{c} 18,370,778\\ 7,888,299\\ 7,380,055\\ 06,494\\ 411,750\\ 92,007\\ 381,677\end{array}$
Printing and neutring con- bined	13 18 18	3, 042, 642 1, 845, 701 812, 125 885, 038	2, 616, 290 1, 717, 980 667, 089 454, 410	2,898,872 1,787,865 733,098 620,607	143, 770 57, 836 79, 027 264, 431	Residential building builty Bridge and culvert. Grading. Street paving. Sewer, gas, water, conduit. Railroad. Other classes ?	6 20 6 3	1,854,008	3 340 004	498,475 4,058,608 1,420,745	128, 570 433, 295 619, 037
Roofing Sheet-metal work Steel ercetion Stone work Marble and tiling	29 10 6 5 34	1, 850, 518 1, 014, 905 1, 555, 106 877, 650 2, 936, 214	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	156, 430 39, 312 343, 572 4, 438 509, 400	Subcontractors Carpentering and wood floor- ing Concreting Electrical. Heating and plumbing Heating and plumbing * Plumbing Masonry.	213 3 12 39	268, 512 2, 208, 901 3, 409, 667	160, 842 2, 197, 301 2, 703, 511	2, 197, 301 2, 833, 403	78, 465 11, 600 576, 264
Excavating Ornamontal iron work Grading Railroad, bridge and culvert Metal work, n. e. s. Other classes ³		294, 813 122, 757 1, 232, 590	277, 333 76, 672 30, 000 918, 664	284, 567 119, 757 343, 222 986, 844	10, 246 3, 000 889, 368 427, 977	Heating and plumbing Heating and plumbing Plumbing Masonry Painting and decorating ⁶ Plastering and lathing	. 12	6,000,197 2,797,761 3,202,436 2,780,977 2,1,607,878	5, 446, 023 2, 333, 419 3, 112, 604 2, 509, 609 1, 511, 514	5,806,095 2,612,059 3,194,036 2,646,207 1,567,103	$\begin{array}{r} 194,102\\185,702\\8,400\\143,770\\40,775\end{array}$
KANSAS CITY		42, 907, 368	20, 259, 503	27, 991, 816	14, 915, 552	Boofing and sheet-metal work	19) 1. 147. 924	1,062,425	1,108,025 803,489	39, 899 37, 399
Operative builders	- 18	5, 006, 115	4, 420, 357	4, 490, 357	515, 758	Roofing Sheet-metal work Steel erection	1 F	307,030 1,277,508	288, 936	304, 536 1, 013, 836	2,500 263,672
General contractors. Building. Commercial building only. Residential building only. Highway. Grading. Street paving. Ruilroad, bridge and culvert. Other classes !			9, 587, 612 7, 830, 407 5, 243, 069 1, 480, 639 1, 106, 699 869, 434	1, 508, 630 1, 106, 690 2, 063, 934	2 4, 296, 986 4, 259, 486 37, 500 544, 905	Stone work Marble and tilling Excavating and grading Ornamental iron work Metal work, n. e.s		1 842, 650 1, 917, 423 903, 390 265, 139	697, 238 1, 582, 045 650, 724 250, 975	838, 212 1, 732, 615 872, 270 256, 109	4,438 184,808 31,120 9,030
Grading Street paving Railroad, bridge and culvert_ Other classes *		2,000,000 319,712 560,698 6,173,303 2,521,210	4,200	183, 456 480, 698 2, 512, 360	80,000 3,660,943						

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¹ Includes dam and reservoir; waterworks; levee; oil and natural gas pipe line; and telephone line and system. ² Includes pipe covering and automatic temperature control. ³ Includes sewer, gas, water and conduit; power plant; flooring, miscellaneous, n, e, s.; and miscellanoous, n. e. s. ⁴ Includes sewer, gas, water and conduit; dam and reservoir; waterworks; dredging, river and harbor, etc.; central station, light and power plant; and telephone line and system.

⁵ Includes ornamental iron; and steel erection.
⁶ Includes excavating; bridge and culvert; sewer, gas, water and conduit; railroad; central station, light and power plant; and miscellaneous, n. e. s.
⁷ Includes dredging, river and harbor, etc.; levee; central station, light and power plant; and oil and natural gas pipe line.
⁸ Includes pipe covering; and plumbing and heating combined.
⁹ Includes glass and glazing; and flooring, n. e. s.

TABLE 4.—CONSTRUCTION BUSINESS OUTSIDE HOME STATE, BY LOCATION

· · · · · · · · · · · · · · · · · · ·	LOCATI	ON REPORTED	вт		1,0CATI	ON REPORTED	BY—
STATE	All classes of establish- ments	General con- tractors ¹	Subcon- tractors	STATE	All classes of establish- ments	General con- tractors 1	Subcon- tractors
MISSOURI				KANSAS CITY-Continued			
Total distributed by State 2		\$20, 963, 090	\$8, 146, 195	Total distributed by State-Continued.	07 70F		64 HOK
AlabamaArizona	485, 734 725	385, 396	100, 338 725	Michigan Minnesota	\$7, 785 433, 171	\$351, 945	\$7, 785 81, 226 725
Arkansas California	2, 212, 295	1,911,453	300, 842 31, 604	Montana Nebraska	725 691, 867	615, 029	76, 838 80, 000
Colorado District of Columbia	612, 957	1, 174 569, 605	43, 352	New Jersey New Mexico	80,000 43,282	43, 282	80, 000
Florida	64.557	243, 857 59, 000	5, 557	New York. North Dakota	43, 282 172, 000	172, 000	
Georgia Idaho Illinois	87,953	57, 587	30, 366	Ohio	15, 717 98, 638	34, 586	15, 717 64, 052 608, 760
IdaboIllinois	16, 518 5, 902, 436 1, 057, 874	16, 518 4, 755, 273	1, 237, 163 91, 810	Oklahoma	1, 112, 578	503, 818	608,760 13,018
Indiana Iowa	1,057,874	966,064	156.059	Pennsylvania Rhode Island	5,000		5,000
Капsas	6, 158, 180	157, 611 4, 485, 277	1, 672, 903 123, 800 30, 785	South Carolina South Dakota	14, 608 3, 310		14,608 3,310
Kentucky Louisiana	1 227.886	486,000 197,101	123,800	Tennessee Texas	11,857		11,857
Maryland Massachusetts	157, 946 170, 000	157,946 170,000		Utah West Virginia	1, 825, 976 1, 147		1, 407, 113 1, 147
Michigan	149,973	125, 188	24, 785	Wisconsin	247 033		1 1.699
Michigan Minnesota Mississippi Montana	433,171 8,826	351, 945 8, 826	81, 226	Wyoming Other States, n. s	5, 122		5, 122 82, 371
Montana	725		725		82, 371		82, 371
		1,779,327 428,940	89,755 80,000	ST. LOUIS			
New Mexico	200, 603	423, 940 197, 603 953, 476	80,000 3,000 57,000	Total distributed by State 4	20, 737, 193	18, 370, 778	2, 366, 415
Neoriasku New Jersoy New Moxico New York North Carolina North Dakota	1,010,476	165, 659		Alabama	164, 023	63, 685	100, 338
North Dakota	15,717	1, 013, 703	15, 717 173, 469	Arkansas	892, 714	690, 043	202, 671
Oklahoma	2.087.527	1, 312, 864	774,663	California Colorado	1, 174 48, 626	1, 174 48, 626	
Oregon	1 10 025	10, 925 24, 431	30, 803	Colorado District of Columbia	243, 857	243, 857 59, 000	
Oregon Pennsylvania Rhode Island South Carolina South Dakota Tennessee	5, 000		5 000	Florida Georgia	57, 587	57, 587	
South Carolina	14,608 67,982	64, 672	14, 608 3, 310	Idaho Illinois	16.518	16, 518 2, 847, 580	845, 266
Tennessee	145, 602	113,025	32,577	Indiana	956, 983	808,847	63, 136
Titab	9,772,047	7, 918, 162	1, 858, 885	Iowa Kansas		26, 233 537, 955	4, 529 197, 615
Virginia Washington West Virginia. Wisconsin	1, 147 203, 788 11, 815	203, 738 9, 042		Kentucky	9,710		9,710
West Virginia	1, 699		2,173 1,699	Louisiana Maryland	10,075 157,946	10, 075 157, 946	
Wisconsin Wyoming	833, 783 5, 122	85, 113	248, 670 5, 122	Maryland Massachusetts	170,000	170,000	17,000
Other States, n. 8	1, 402, 546	585, 989	816, 557	Michigan Mississippi Nebraska	142, 188 8, 826	125, 188 8, 826	
KANSAS OITY				Nebraska	1,167,215 423,940	1, 164, 298 423, 940	2, 917
Total distributed by State 8		10, 128, 969	4, 786, 583	New Jersey New Mexico	157, 321	154, 321	3,000 57,000
Alabama Arizona	321, 711 725	321, 711	725	New York North Carolina	838, 476 165, 659	781, 476 165, 659	
Arkansas	992, 579	911, 982	80, 597 31, 604	Ohio	1, 083, 534	979, 117	104, 417
California Colorado	31,604	520, 979	900 100	Oklahoma.	588, 073 10, 925	546, 237 10, 925	41, 836
Florida	4 237		4, 237 30, 366 311, 661 28, 674 142, 819 1, 259, 636	Oregon Pennsylvania South Dakota	42, 216	24, 431 64, 672	17, 785
Georgia Illinois Indiana	30, 366 1, 977, 386	1. 665. 725	30, 366 311, 661	Tennessee	68,873	63, 153	5, 720
Indiana	100, 891	1, 665, 725 72, 217	28,674	Texas Virginia	7, 220, 614 203, 738	7, 220, 614 203, 738	
Iowa.	200, 197	123, 378 3, 700, 428	1, 259, 636	Washington	9,642	9,642	
Kentucky	600, 090	486,000 187,026	114, 090 30, 785	Wisconsin Other States, n. s	86,750 1,207,134	85, 113 515, 296	1,637 691,838
Louisiana	217, 811	187, 020	00,780	Conci States, II. Sectional International	1,201,101	010, 200	

¹ Includes operative builders.
 Number of establishments reporting:
 ³ All classes, 215; general contractors, 88; subcontractors, 127.
 ³ All classes, 90; general contractors, 30; subcontractors, 57.
 ⁴ All classes, 85; general contractors, 33; subcontractors, 52.

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TABLE 5 .- NUMBER AND SALARIES OF PROPRIETORS, FIRM MEMBERS, AND SALARIED EMPLOYEES: 1929

	Es-	PROPR	MEMBE	AND FIRM RS				SALAR	IED EM	PLOYEES				
CLASSIFICATION OF ESTABLISHMENTS	tab- lish ments re-	Re-	Receiv	ing salaries		salaried ployees		and cleri- l staff		ntendents, nen, etc.	Numt	er repor sex	ted by	Sex
	port- ing	ceiving no salary	Num- ber	Total annual salaries	Total num- ber	Total annual salaries	Num- ber	Total annual salaries	Num- ber	Total annual salaries	Total	Male	Fe- male	ported
MISSOURI	738	\$47	211	\$728, 736	2, 733	\$7, 907, 175	1, 585	\$4, 933, 211	1, 148	\$2, 973, 964	2, 445	2, 102	343	288
Operative builders	34	12	8	42, 035	113	358, 296	65	233, 510	48	124, 786	. 111	87	24	2
General contractors Building Commercial building only Residential building only Highway Bridge and culvert Grading Street paving Sewer, gas, water, conduit Dredging, river, harbor, etc Levee Railroad Central station, light and power plant	186 137 19 30 44 14 14 34 9 3 8	175 100 74 12 14 82 6 11 13 7 2 		252, 276 131, 780 100, 883 7, 680 23, 717 84, 850 12, 670 19, 376	1,476 715 570 185 105 20 105 51 35 13 110 31 94	$\begin{array}{c} 4, 411, 685\\ 2, 271, 107\\ 1, 838, 136\\ 223, 661\\ 200, 320\\ 424, 444\\ 349, 604\\ 85, 094\\ 85, 094\\ 323, 128\\ 115, 416\\ 138, 060\\ 42, 800\\ 358, 403\\ 81, 055\\ 222, 574 \end{array}$	731 395 305 49 41 71 46 16 60 21 14 14 7 38 19 44	$\begin{array}{c} 2, 508, 670\\ 1, 376, 686\\ 1, 084, 924\\ 181, 344\\ 130, 418\\ 194, 391\\ 208, 135\\ 59, 638\\ 229, 445\\ 52, 832\\ 84, 200\\ 225, 200\\ 128, 760\\ 54, 131\\ 95, 262 \end{array}$	745 320 265 29 114 59 10 45 30 21 6 78 12 50	$\begin{array}{c} 1, 903, 015\\ 804, 421\\ 753, 212\\ 62, 307\\ 78, 902\\ 230, 053\\ 141, 466\\ 93, 083\\ 62, 584\\ 63, 860\\ 17, 600\\ 229, 653\\ 26, 924\\ 127, 312\\ \end{array}$	$\begin{array}{c} 1,355\\ 617\\ 492\\ 75\\ 500\\ 178\\ 105\\ 22\\ 93\\ 51\\ 13\\ 116\\ 31\\ 94 \end{array}$		$\begin{array}{c} 149 \\ 90 \\ 73 \\ 73 \\ 10 \\ 12 \\ 11 \\ 2 \\ 10 \\ 6 \\ 3 \\ 1 \\ 9 \\ 2 \\ 3 \\ 3 \end{array}$	121 98 78 20 7 7
Subcontractors	$\begin{array}{c} 379 \\ 6 \\ 25 \\ 32 \\ 117 \\ 34 \\ 59 \\ 24 \\ 13 \\ 18 \\ 18 \\ 18 \\ 42 \\ 28 \\ 28 \\ 28 \\ 28 \\ 28 \\ 28 \\ 2$	$\begin{array}{c} 160\\ 3\\ 13\\ 24\\ 1\\ 51\\ 12\\ 299\\ 100\\ 7\\ 7\\ 7\\ 1\\ 1\\ 5\\ 4\\ 4\\ 4\\ 2\\ 12\\ 14\\ 4\\ 2\\ 3\\ 7\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\$	134 7 6 15 50 10 23 177 7 5 6 2 7 7 4 4 12 12 12 12 12 3 2 4	434, 425 10, 084 12, 800 59, 188 140, 820 38, 172 55, 170 47, 478 80, 876 16, 916 12, 577 31, 716 59, 354 26, 177 33, 177 	$\begin{array}{c} 1,144\\ 18\\ 109\\ 176\\ 24\\ 285\\ 183\\ 33\\ 48\\ 41\\ 29\\ 23\\ 109\\ 80\\ 29\\ 31\\ 12\\ 104\\ 34\\ 40\\ 20\\ 20\\ 104\\ 34\\ 40\\ 20\\ 104\\ 34\\ 40\\ 20\\ 22\\ 106\\ 40\\ 22\\ 22\\ 106\\ 40\\ 22\\ 22\\ 106\\ 40\\ 22\\ 22\\ 22\\ 106\\ 40\\ 22\\ 22\\ 22\\ 22\\ 106\\ 40\\ 22\\ 22\\ 22\\ 22\\ 106\\ 40\\ 22\\ 22\\ 22\\ 22\\ 106\\ 40\\ 22\\ 22\\ 22\\ 22\\ 106\\ 40\\ 22\\ 22\\ 22\\ 22\\ 106\\ 40\\ 22\\ 22\\ 22\\ 22\\ 106\\ 40\\ 22\\ 22\\ 22\\ 22\\ 106\\ 40\\ 22\\ 22\\ 22\\ 106\\ 40\\ 22\\ 22\\ 22\\ 106\\ 40\\ 22\\ 22\\ 22\\ 106\\ 40\\ 22\\ 22\\ 22\\ 22\\ 22\\ 106\\ 40\\ 22\\ 22\\ 22\\ 22\\ 22\\ 22\\ 22\\ 22\\ 22\\ 2$	$\begin{array}{c} 3, 137, 194\\ 32, 999\\ 364, 667\\ 435, 182\\ 62, 819\\ 747, 817\\ 325, 909\\ 861, 997\\ 509, 914\\ 191, 266\\ 140, 084\\ 81, 130\\ 51, 119\\ 245, 392\\ 174, 911\\ 170, 481\\ 122, 410\\ 46, 615\\ 259, 695\\ 78, 631\\ 47, 824\\ 47, 824\\ 47, 930\\ 116, 430\\ 59, 230\\ 59, 230\\ \end{array}$	$\begin{array}{c} 789\\ 12\\ 500\\ 133\\ 11\\ 231\\ 96\\ 104\\ 22\\ 21\\ 22\\ 21\\ 22\\ 11\\ 78\\ 82\\ 22\\ 11\\ 78\\ 83\\ 10\\ 17\\ 9\\ 83\\ 10\\ 17\\ 2\\ 2\\ 5\\ 11\\ 1\end{array}$	$\begin{array}{c} 2, 191, 031\\ 2, 1748\\ 218, 301\\ 324, 178\\ 244, 178\\ 245, 582, 398\\ 266, 663\\ 259, 681\\ 57, 054\\ 110, 868\\ 107, 104\\ 65, 310\\ 16, 419\\ 181, 942\\ 141, 443\\ 40, 499\\ 76, 150\\ 37, 336\\ 200, 942\\ 43, 765\\ 38, 989\\ 4, 954\\ 31, 870\\ 77, 133\\ 29, 080\\ \end{array}$	$\begin{array}{c} 865\\ 6\\ 59\\ 9\\ 43\\ 13\\ 14\\ 19\\ 34\\ 1\\ 27\\ 13\\ 3\\ 12\\ 31\\ 11\\ 18\\ 13\\ 14\\ 3\\ 21\\ 15\\ 3\\ 7\\ 15\\ 12\end{array}$	946, 163 11, 251 161, 306 111, 004 41, 334 165, 419 60, 243 102, 316 2, 860 15, 820 83, 450 33, 468 29, 982 47, 266 9, 280 52, 753 34, 886 8, 835 	$\begin{array}{c} 979\\ 18\\ 106\\ 137\\ 24\\ 322\\ 94\\ 113\\ 38\\ 31\\ 25\\ 38\\ 31\\ 20\\ 21\\ 26\\ 72\\ 26\\ 31\\ 12\\ 90\\ 30\\ 18\\ 22\\ 16\\ 36\\ 19\\ 91\\ 91\\ 91\\ 91\\ 91\\ 91\\ 91\\ 91\\ 91$	$\begin{array}{c} 809\\ 11\\ 94\\ 106\\ 18\\ 76\\ 89\\ 17\\ 33\\ 25\\ 16\\ 16\\ 18\\ 26\\ 17\\ 28\\ 10\\ 21\\ 28\\ 20\\ 78\\ 28\\ 27\\ 18\\ 27\\ 18\\ 27\\ 18\\ 22\\ 15\\ 15\\ 10\\ 17\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10$	170 7 12 31 6 500 18 24 8 5 6 4 4 3 18 18 18 18 18 18 18 3 5 	42
KANSAS CITY		76	.59	243, 369	819	2, 338, 477	427	1, 325, 329	392	1, 013, 148	756	850	108	65
Operative builders	- 17	6	1	1,040	63	220, 024	34	141, 808	20	78, 216	63	52	11	
General contractors. Building. Duilding not specialized. Commercial building only. Residential building only. Highway. Grading. Street paying. Railroad, bridge, and culvert. Other classes 4.	- 75 - 40 - 30 - 6 - 4 - 13 - 3	543	2 3 5		424 199 152 16 31 52 5 9 110 49	$\begin{array}{c} \textbf{1, 276, 302} \\ \textbf{607, 403} \\ \textbf{501, 579} \\ \textbf{35, 112} \\ \textbf{70, 712} \\ \textbf{128, 352} \\ \textbf{8, 100} \\ \textbf{27, 990} \\ \textbf{339, 267} \\ \textbf{165, 190} \end{array}$	187 95 79 6 10 21 4 4 42 21	652, 543 325, 411 293, 709 11, 522 20, 180 63, 816 6, 300 14, 970 151, 546 90, 500	68	623, 759 281, 992 207, 870 23, 590 50, 532 64, 532 1, 800 13, 020 187, 721 74, 690	395 170 143 16 11 52 5 9 110 49	347 141 119 13 9 47 4 8 104 43	48 29 24 3 2 5 1 1 6 6	20
Subcontractors	- 99 - 6 - 17 - 26 - 10 - 7 - 9 - 6	8 4 2 2 4	10	140, 536 5, 400 20, 600 33, 994 8, 860 5, 560 19, 574 7, 173	332 52 39 91 44 32 15 16 13	842, 151 139, 808 92, 525 250, 560 118, 237 110, 286 22, 037 37, 633 29, 854	206 17 34 63 33 15 15 7 4	530, 978 54, 808 78, 562 173, 411 88, 146 63, 228 22, 037 16, 489 5, 454	5 28 11 17 9	311, 173 85, 000 13, 963 77, 149 30, 091 47, 058 21, 144 24, 400	298 49 33 80 39 29 12 8 13	30 23 9 7	9 6 3	1
Plastering and lathing Roofing and sheet-metal work Roofing Sheet-metal work Metal work, n. e. s. ⁶ Marble and tiling Other classes ⁶		22	10 2 8 2	26, 623 5, 000 21, 623 5, 369	45 39 6 4 84	94, 702 78, 987 15, 715 12, 300 84, 769 100, 000	30 28 2	03, 565 59, 370 4, 195 9, 300 75, 849	15 11 4 1 4	31, 137 19, 617 11, 520 3, 000 8, 920	43 37 6 4 34	36 30 6 3 30	7 7 1 4	
ST. LOUIS		141	80	286, 995	1, 527	4, 763, 480	952		-			-	_	
Operative builders General contractors Building Building not specialized Commercial building only Residential building only Highway Bridge and culvert Grading Street paving Sewer, gas, water, conduit Levce ' Railroad Other classes *	13 141 	64 39 27 5 7 7 5 5 5 5 6		36, 012 33, 212 2, 800 	787 430 335 59 - 36 - 25 - 37 - 16 68	$\begin{array}{c} 2,571,143\\ 1,459,903\\ 1,143,646\\ 188,539\\ 127,718\\ 74,070\\ 165,009\\ 252,460\\ 66,414\\ 120,500\\ 157,942 \end{array}$	89 15 12 18	$\begin{array}{c} 1,567,686\\ 933,445\\ 684,275\\ 149,822\\ 99,348\\ 46,652\\ 98,509\\ 38,838\\ 187,399\\ 37,300\\ 62,900\\ 64,650 \end{array}$	366 178 154 16 8 11 23 7 29 15 29 29 15 32	$\begin{array}{c} 1,003,457\\ 526,458\\ 459,871\\ 38,717\\ 28,370\\ 27,418\\ 66,496\\ 19,156\\ 65,067\\ 29,114\\ 57,600\\ 93,292\end{array}$	784 388 293 59 36 25 37 12 61 30 33 50	661 342 259 55 28 22 32 32 11 55 27 30 45		

	Es-	FROFR	IETORS MEMBI	AND FIRM ERS		<u>, i uvero or</u>		SALAR	IED EM	PLOYEES				
CLASSIFICATION OF ESTABLISHMENTS	tab- lish- ments re-	Re-		ing salaries		salaried ployees		s and cleri- l staff		ntendents, nen, etc.	Numb	errepor sex	ted by	Sex
•	port- ing	ceiving no salary	Num- ber	Total annual salaries	Total num- ber	Total annual salaries	Num- ber	Total annual salaries	Num- ber	Total annual salaries	Total	Male	Fe- male	re- ported
ST. LOUIS—Continued. Subcontractors	3 20 10 4	74 6 18 1 21 5 16 5 2 2 2 2 2 2 2 2 2 2 2 2 2	57 22 4 20 5 15 5 3 4 4 10 9 1 1 	\$200, 988 4, 680 5, 000 24, 500 9, 747 24, 220 88, 577 20, 550 9, 743 12, 516 22, 077 18, 177 18, 177 18, 177 18, 177 3, 900 	$\begin{array}{c} 701\\ 16\\ 41\\ 124\\ 24\\ 157\\ 71\\ 86\\ 44\\ 49\\ 10\\ 45\\ 29\\ 10\\ 45\\ 29\\ 16\\ 27\\ 12\\ 29\\ 16\\ 20\\ 20\\ 40\\ \end{array}$	\$2,087,215 30,139 187,850 327,289 433,568 220,717 212,851 184,629 176,004 21,265 112,492 176,004 21,265 112,492 176,004 21,265 112,492 176,585 112,492 1153,687 75,585 47,824 116,430	$\begin{array}{c} 510\\ 10\\ 31\\ 88\\ 11\\ 134\\ 63\\ 71\\ 20\\ 42\\ 7\\ 34\\ 24\\ 10\\ 14\\ 9\\ 9\\ 9\\ 49\\ 19\\ 17\\ 25\end{array}$	$\begin{array}{c} \$1, 534, 126\\ 18, 888\\ 148, 953\\ 232, 888\\ 21, 485\\ 354, 608\\ 190, 565\\ 164, 133\\ 110, 408\\ 156, 544\\ 10, 965\\ 91, 161\\ 50, 413\\ 31, 748\\ 66, 850\\ 37, 335\\ 122, 050\\ 45, 719\\ 38, 989\\ 77, 133\end{array}$	191 6 10 23 8 5 24 7 3 11 5 0 13 3 11 13 3 11 13 3 15	\$553, 089 11, 251 38, 906 94, 401 41, 334 78, 870 30, 152 48, 718 74, 161 19, 460 10, 500 21, 331 10, 731 10, 731 10, 731 10, 731 10, 731 10, 537 9, 280 6, 28, 835 8, 835 8, 835 8, 9297	578 16 41 91 24 120 55 65 55 65 34 38 8 39 26 13 27 12 27 12 28 18 36	4777 100 34 70 188 97 477 500 30 30 31 6 83 21 122 25 122 39 225 188 29	101 6 7 21 6 23 8 15 4 7 2 0 5 1 2 7 3 7	123 33 10 10 10 11 2 6 6 8 8 8 14 4 4 2 4

¹ Includes waterworks; dam and reservoir; oil and natural gas pipe lines; and telephone line and system. ² Includes spipe covering and automatic temperature control. ³ Includes sower; gas, water and conduit; power plant; flooring, n. e. s.; and miscellaneous, n. e. S. ⁴ Includes sower; gas, water, and conduit; dam and reservoir; waterworks; dredging, river, harbor, etc.; central station, light and power plant; and telephone line and system.

⁴ Includes ornamental iron; and steel erection. ⁶ Includes glass and glazing; excavating; bridge and culvert; sewer, gas, water, and conduit; railroad; power plant; and miscellaneous, n. e. s. ⁷ Includes dredging, river, harbor, etc. ⁸ Includes central station, light and power plant; and oil and natural gas pipe

line. ⁹ Includes plumbing and heating combined. ¹⁰ Includes glass and glazing; and flooring, n. e. s.

TABLE 6.—VALUE OF CONSTRUCTION EQUIPMENT, IN COMPARISON WITH CONSTRUCTION BUSINESS AND WAGES PAID DURING 1929

						1			1	1
ants	EQUI	PMENT	Value of			ents g	EQUI	PMENT	Value of	
Establishme	Pur- chased during the year	Inventory value at end of year	construc- tion busi- ness re- ported	Wages paid	CLASSIFICATION OF ESTABLISH- MENTS AND PERCENTAGE OF EQUIPMENT OWNED	Establishm reportin	Pur- chased during the year	Inventory value at end of year	construc- tion busi- ness re- ported	Wages paid
681	\$3, 367, 217	810, 196, 126	\$144, 485, 574	\$35, 119, 385	MISSOURI-Continued.			e te tregori	en de la composition de la composition La composition de la c	
					Percentage of equipment owned					
					General contractors '	337	\$2, 601, 455	\$7, 936, 611	\$103, 626, 953	\$22, 636, 461
307 172 128 17 27 41 13	384,963 343,680 12,979 28,304 522,839 189,460	1, 646, 301 1, 419, 475 112, 010 114, 816 1, 620, 306 926, 358	$54, 539, 285 \\ 45, 159, 921 \\ 4, 259, 702 \\ 5, 119, 662 \\ 7, 403, 822 \\ 5, 605, 423 \\ $	9, 926, 389 8, 303, 840 698, 854 923, 695 2, 094, 508 2, 075, 747	None	22 6 10 58 229 6	1, 991 3, 041 42, 337 954, 826 1, 599, 055	5, 392 26, 539 136, 770 1, 961, 376 5, 792, 739	2, 644, 457 976, 420 3, 205, 753 29, 579, 456 62, 309, 243 1, 675, 231	402, 218 187, 981 975, 440 7, 400, 014 12, 983, 351 82, 591
35	337, 320 298, 956 56, 937 216, 585	864, 428 341, 965 470, 305 460, 813 688, 852 94, 589	5, 555, 839 2, 368, 311 2, 129, 323 599, 268 4, 677, 973 3, 473, 544	920, 647 644, 284 029, 160 139, 212 1, 871, 469 855, 860	Subcontractors	844 12 1 4 21 292	300 79, 670 2, 322 68, 273	1, 500 190, 708 3, 117 242, 592 1, 787, 386	41,063 849,292 71,229 4,764,460 33,062,036	1,703,587
1										
844 6 24 53 107 84 50	151 84, 317 27, 652 52, 596 13, 879 28, 409	5,056 233,130 108,886 295,085 91,181 161,565	4, 103, 058 4, 277, 303 12, 145, 252 4, 954, 486 5, 721, 519	1,407,524 1,572,510 3,138,815 1,215,669 1,555,932	Classification of establish- ments Operative builders	16	23, 419 830, 618 67, 762	37, 901 2, 482, 115 334, 826	4, 842, 495 24, 879, 219 12, 789, 266	6, 756, 405 3, 090, 592
23 13 15 4 9 40 25	10, 308 813, 609 6, 000 6, 500 3, 794 24, 435 19, 715	31, 896 37, 751 138, 610 70, 291	755, 618 842, 383 2, 605, 361 1, 630, 456	1,058,471 930,919 175,246 386,706 666,636 372,242	Commercial building only Highway Grading Street paying Railroad, bridge, and culvert. Other classes *	7 13 3 4 7 8	390 119, 337	62, 780 430, 712 93, 997	1, 506, 639 2, 515, 030 319, 712	695, 418 116, 560 119, 675
26	9, 293 85, 950 2, 195 86, 877	68, 319 83, 766 86, 453 81, 073 453, 255 63, 904 246, 946 58, 419	974,905 1,555,106 877,650 2,370,582 1,129,630 549,813 1,232,590 1,360,687	223, 808 199, 435 721, 984 450, 286 119, 003 443, 795 311, 732		00	144,873 31,282 5,922 18,368 3,510 10,260 4,598	85,000 20,540 107,880 34,092 47,828	1, 480, 576 1, 034, 296 4, 821, 419 2, 157, 054	306,780 1,194,185 576,480
	$\begin{array}{c} 300\\ 307\\ 172\\ 128\\ 17\\ 27\\ 41\\ 13\\ 35\\ 5\\ 344\\ 63\\ 33\\ 8\\ 8\\ 5\\ 344\\ 63\\ 107\\ 23\\ 13\\ 15\\ 49\\ 49\\ 23\\ 15\\ 50\\ 23\\ 15\\ 5\\ 6\\ 6\\ 15\\ 5\\ 6\\ 6\\ 15\\ 5\\ 8\\ 8\end{array}$	681 \$3, 367, 217 30 24, 924 307 2, 576, 531 172 384, 903 128 343, 680 171 12, 979 27 28, 304 181 172 384, 903 128 129 28, 304 131 189, 400 131 188, 400 131 189, 400 35 276, 510 360, 337, 820 308, 956 3 56, 337 8 216, 585 5 27, 080 5 146, 775 344 16, 762 107 52, 596 107 52, 596 103 313, 609 13 313, 609 13 313, 609 14 6, 000 4 6, 000 4 6, 000 9 3, 794 024, 435 25 19, 715 19, 715	681 \$8, 367, 217 \$10, 196, 128 30 24, 924 48, 323 307 2, 576, 531 7, 888, 288 172 384, 903 1, 464, 301 128 343, 680 1, 419, 475 171 12, 079 112, 010 172 28, 304 114, 816 161 522, 830 1, 200, 306 13 189, 460 926, 356 13 118, 100 453, 777 35 278, 516 864, 470, 305 3 268, 956 470, 305 3 266, 937 460, 813 3 25, 776 320, 574 3 26, 685 688, 852 5 27, 080 94, 589 5 145, 776 320, 574 344 765, 762 2, 259, 515 6 151 555 23 10, 308 52, 339 13 33, 609 84, 914 50 28, 409 151, 555 23	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	681 83, 367, 217 810, 196, 126 \$144, 485, 574 \$35, 119, 385 MISSOURI—Continued. 30 24, 924 48, 323 7, 534, 642 1, 574, 678 General contractors 4 None 307 2, 576, 531 7, 888, 288 96, 092, 311 21, 061, 790 None None None 172 384, 903 1, 464, 301 54, 559, 286 9, 926, 386 1% to 25% None None	681 83, 367, 217 810, 196, 129 \$144, 485, 574 \$855, 119, 385 MISSOURL—Continued. 30 24, 924 48, 323 7, 534, 642 1, 574, 678 General contractors 4	144 144 144 485, 574 \$35, 119, 385 MISSOURI—Continued, owneed 30 24, 924 48, 323 7, 534, 642 1, 574, 678 General contractors '	Her MISSOURI—Continued. 30 24,924 48,323 7,534,642 1,574,675 307 2,576,331 7,838,288 90,092,311 21,061,705 307 2,576,331 7,838,288 90,092,311 21,061,705 307 2,576,331 7,534,642 1,574,675 General contractors 4	Her MISSOURI—Continued. 881 \$83, 367, 217 \$10, 196, 126 \$144, 485, 574 \$85, 116, 385 30 24, 924 48, 323 7, 534, 642 1, 574, 675 307 2, 576, 531 7, 888, 288 69, 002, 311 21, 001, 706 72 384, 003 1, 410, 475 45, 168, 921 8, 3068 1, 410, 475 45, 168, 921 8, 208, 288 1%, to 257, 208 100, 208, 208, 100 286 517, 107, 208 296, 508, 508 1, 501, 603, 308, 403 1007, 208, 996, 997, 4200 296, 508, 508, 109, 208, 208, 209, 208, 100 1007, 208, 996, 910, 31, 796, 100, 708, 388, 976 387, 796, 708, 209, 208, 318, 644, 208, 508, 1164, 428, 556, 508, 924, 438 Not reported 66 79, 670, 100, 708, 844, 920 31, 796, 1, 676, 22, 266, 515, 40, 858, 621 107, 773, 11, 77, 1208 246, 507, 210, 776, 508, 316, 444, 268, 587 107, 776, 100, 708,

TABLE 6.-VALUE OF CONSTRUCTION EQUIPMENT, IN COMPARISON WITH CONSTRUCTION BUSINESS AND WAGES PAID DURING 1929—Continued

· · · · · · · · · · · · · · · · · · ·	ents g	EQUI	PMENT	Value of			ents	EQUI	PMENT	Value of	
CLASSIFICATION OF ESTABLISH- MENTS AND PERCENTAGE OF EQUIPMENT OWNED	Establishme reporting	Pur- chased during the year	Inventory value at end of year	tion busi- ness re- ported	Wages paid	CLASSIFICATION OF ESTABLISH- MENTS AND PERCENTAGE OF EQUIPMENT OWNED	Establishments reporting	Pur- chased during the year	Inventory value at end of year	construc- tion busi- ness re- ported	Wages paid
KANSAS CITY-Contd.						ST. LOUIS-Continued.					
Classification of establish- ments-Continued						Classification of establish- ments-Continued					1
Subcontractors—Continued. Painting and decorating Plastering and lathing Roofing and sheet-metal work. Roofing. Sheet-metal work. Marble and tiling	5 16 10 6	216 3,618	84,500 61,222 33,848 27,374 27,295	661,065 400,808 591,392	262, 322 263, 570	General contractors—Contd. Sower, gas, water, conduit Levee § Railroad Other classes § Subcontractors Corportering and wood floor.	5 3 8 3 196	113, 686	583, 081 176, 836 263, 693	1, 596, 061 1, 495, 719 10, 962, 139	\$439, 647 539, 056 759, 889 2, 068, 662 7, 602, 827
Marble and tiling Metal work, n. e. s. ⁶ Other classes ⁷ Percentage of equipment owned		2,010 67,749	227, 950		546, 216	Concreting Blectrical Heating and plumbing Heating and plying ¹⁰	3 12 32 55 21	37, 818 17, 408 22, 807 9, 504	79, 341 74, 488 124, 051 45, 393	208, 512 2, 208, 901 2, 943, 736 5, 870, 531 2, 707, 761 3, 162, 770	66, 305 735, 884 1, 160, 467 1, 616, 721 645, 889 970, 832
General contractors 4 None 1% to 25% 26% to 50% 51% to 75% 76% to 90% 100% Not reported	90 12 5 4 19 47 1	1,441 3,041 17,720 331,009 500,826	2, 720 12, 539 25, 220 902, 190	2, 143, 095 1, 622, 678 796, 035 819, 677 14, 309, 778	474, 669 335, 031 169, 134 165, 066 4, 244, 420 2, 690, 181	Subcontractors. Oarpentering and wood floor- ing. Concreting. Electrical. Heating and plumbing. Heating and plumbing. Plumbing. Plumbing. Plumbing and sheat Roofing and sheat-metal work. Roofing. Sheet-metal work. Steel eroction. Stone work. Marble and tiling. Excavating and grading. Ornamental iron work ¹² .	34 10 11 4 18 12 6	312,126 3,900 699 7,386 5,651	63, 371 50, 398 3, 251 61, 643 28, 343 33, 300 76, 016	2,789,977 1,437,573 236,062 1,072,982 705,946 307,036	970, 835 971, 432 627, 130 124, 384 284, 483 205, 907 78, 674 196, 836 189, 673
Subcontractors	92	144,873		11, 903, 540 120, 020 87, 797	3, 642, 306 20, 991 28, 567	Marble and tiling Excavating and grading Ornamental iron work ¹² Metal work, n. e. s		5, 675 36, 799 8, 294	53,778 855,508 152,594	1, 679, 190 903, 390 1, 969, 227	517, 336 376, 65 440, 60 294, 90
None	6 81 2	10, 908 133, 967	85, 296 528, 966 7, 361	1, 300, 468 10, 255, 321 139, 944	465, 711 3, 097, 848 29, 189	Percentage of equipment		1, 158, 107	3, 491, 139		11, 213, 740
ST. LOUIS				86, 111, 180	18, 816, 567	N 0ne 1% to 25%			2,672 14,000	180, 385	18,847
Classification of establish- ments					B 44, 400	General contractors 4 None	. 26 . 96	16, 557	87,900 852,850	1,968,898 13,468,354	686,049 2,726,951 7,592,222
Operative builders	1					Not reported	4	205	2, 525, 237 8, 480	1, 556, 721	55, 880
General contractors Building Building not specialized Commercial building only Residential building only	. 57 . 8	7,589	855, 586 39, 646 49, 231	35, 269, 628 29, 119, 873 2, 694, 419	4, 269, 544 304, 772 603, 236	Subcontractors None		476, 356 300 2, 500	1,500	530, 581 41, 063	7,602,827 166,184 19,418 42,263
Highway Bridge and culvert Grading Street paving	6 6 7 20	48,727 43,608 54,850	296,112 244,939	1,209,560	273, 943 890, 823 205, 959	51% to 75% 76% to 99% 100% Not reported	12 164 11	55, 942 410, 149 7, 465	1,008,522	19.716.372	5,950,166

¹ Includes dam and reservoir; waterworks; oil and natural-gas pipe line; and tele-

Includes that and reserver, the activity of the activity of the and system.
 Includes pipe covering and automatic temperature control.
 Includes elevator construction; grading; sewer, gas, water, and conduit; and

Includes selevator constant, status, stat

Includes steel erection and ornamental iron.
Includes glass and glazing; excavating; bridge and culvert; sewer, gas, water, and conduit; and railroad.
Includes dredging, river and harbor, etc.
Includes dredging, and floating, and heating combined.
Includes glass and glazing; and floating, n. e. s.
Includes elevator construction.

TABLE 7.- WAGE EARNERS, BY MONTHS, AND WAGES PAID DURING 1929

	. . .	ABTR	. A 🚛 YY	"TO D	TREFTORATION		THE OTHER TRACE		C				, o ,		1.1.1
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					אטא	IBER EMP	LOYED ON 151	HDAY	OF THE M	AONTH C	OR NEARI	CST REPRE	SENTATIVE	DAY-	1
- 1 - A									1						1 1 1

and the second		Ru	WDD14 12	511 101 101	, OH IOI	n pur ç		.0					1	an tha an
CLASSIFICATION OF ESTABLISHMENTS AND LENGTH OF WORKING WEEK	Estab- lish- ments report- ing	Janu- ary	Febru- ary	March	April	May	June	July	August	Septem- ber	Octo- ber	Novem- ber	Decem- ber	Wages pai during year
MISSOURI	703	14, 799	15, 524	19, 836	22, 540	22, 445	25, 037	27, 830	28, 803	28, 293	26, 008	22, 977	17, 869	835, 513, 174
Classification of establishments			$x = e^{\frac{1}{2} - \frac{1}{2}}$										91.1	
Operative builders	30	474	454	885	1, 124	1, 237	1, 071	937	1, 101	1, 235	933	823	667	1, 687, 170
General contractors. BuildingBuilding ont specialized. Commercial building only. Residential building only. Highway. Bridge and culvert. Grading. Street paying. Sewer, gas, water, conduit. Dradging, river, harbor, etc. Levee. Rallroad. Central station, light and power plant O ther classes 1.	43 12 12 32 8 3 3 8 3 8	8, 858 3, 913 243 243 276 539 746 77 97 437 176 111 507 462 1, 793	9, 805 4, 540 3, 935 263 348 633 599 93 118 488 269 111 455 466 2, 027	$\begin{array}{c} 13,085\\ 6,228\\ 5,440\\ 851\\ 428\\ 1,024\\ 722\\ 140\\ 206\\ 444\\ 434\\ 67\\ 681\\ 506\\ 2,683\end{array}$	$\begin{array}{c} 14,907\\7,261\\6,357\\369\\535\\1,490\\795\\323\\397\\471\\655\\52\\1,310\\.585\\1,618\end{array}$	$\begin{array}{c} 14,888\\5,803\\4,945\\420\\438\\2,077\\1,060\\397\\550\\658\\862\\48\\1,911\\538\\984\end{array}$	17,2996,9205,6555986672,5531,2525588188271,005441,929647746	$\begin{array}{c} 19, 397\\ 7, 925\\ 6, 734\\ 540\\ 651\\ 3, 057\\ 1, 491\\ 496\\ 1, 022\\ 1, 156\\ 1, 191\\ 71\\ 1, 923\\ 594\\ 471\end{array}$	$\begin{array}{c} 20,118\\7,643\\6,471\\601\\571\\3,068\\1,826\\466\\466\\1,182\\946\\1,438\\135\\2,320\\521\\573\end{array}$	$\begin{array}{c} 19,615\\ 6,800\\ 5,650\\ 483\\ 667\\ 3,332\\ 2,130\\ 366\\ 1,399\\ 882\\ 1,541\\ 145\\ 2,216\\ 449\\ 355\end{array}$	$\begin{array}{c} 18,110\\ 6,048\\ 5,017\\ 532\\ 499\\ 2,814\\ 2,081\\ 292\\ 1,178\\ 909\\ 1,552\\ 138\\ 2,050\\ 552\\ 496\end{array}$	$\begin{array}{c} 15, 669\\ 5, 010\\ 4, 037\\ 565\\ 408\\ 2, 127\\ 1, 933\\ 268\\ 967\\ 1, 168\\ 1, 587\\ 138\\ 1, 476\\ 491\\ 504 \end{array}$	$\begin{array}{c} 11,529\\ 4,656\\ 3,873\\ 468\\ 315\\ 1,117\\ 1,357\\ 164\\ 401\\ 993\\ 1,010\\ 129\\ 1,031\\ 482\\ 189\end{array}$	$\begin{array}{c} 20, 680, 776\\ 9, 612, 081\\ 8, 112, 316\\ 716, 620\\ 783, 145\\ 2, 161, 722\\ 1, 671, 618\\ 341, 450\\ 852, 904\\ 721, 623\\ 629, 160\\ 139, 212\\ 1, 871, 469\\ 855, 860\\ 1, 523, 677\\ \end{array}$

See footnotes at end of table.

TABLE 7.---WAGE EARNERS, BY MONTHS, AND WAGES PAID DURING 1929-Continued

	Estab- lish-	NU	JMBER E	MPLOYEI	O ON 151	H DAY C	F. THE: M	IONTH O	R NEARI	EST REPR	ESENTA	TIVE DAY	·	The second
CLASSIFICATION OF ESTABLISHMENTS AND LENGTH OF WORKING WEEK	ments report- ing	Janu- ary	Febru- ary	March	April	May	June	July	August	Septem- ber	Octo- ber	Novem- ber	Decem- ber	Wages paid during year
MISSOURI-Continued. Classification of establishments-Contd.														
Subcontractors Carpentering and wood flooring Concreting Electrical Heating and plumbing Heating and plumbing Plumbing Plumbing Masoury Painting and decorating Glass and glazing Plastering and lathing Roofing and sheet-metal work Roofing and sheet-metal work Sheet-metal work Steet erection Steet erection Marble and tiling Cranamental iron work Granamental iron work Raliroad, bridge and culvert Metal work, n. e. s Other classes s Length of working week		$\begin{array}{c} 5,467\\ 28\\ 865\\ 560\\ 153\\ 1,200\\ 577\\ 551\\ 171\\ 272\\ 291\\ 83\\ 159\\ 176\\ 113\\ 48\\ 244\\ 33\\ 28\\ 281\\ 145\\ 255\\ \end{array}$	$\begin{array}{c} 5,265\\ 32\\ 685\\ 525\\ 1522\\ 1,206\\ 581\\ 169\\ 303\\ 243\\ 88\\ 145\\ 288\\ 174\\ 114\\ 80\\ 79\\ 335\\ 308\\ 41\\ 34\\ 287\\ 133\\ 301\\ \end{array}$	$\begin{array}{c} 5, 866\\ 42\\ 605\\ 582\\ 159\\ 1, 207\\ 462\\ 644\\ 189\\ 412\\ 412\\ 344\\ 303\\ 242\\ 121\\ 81\\ 113\\ 404\\ 402\\ 2282\\ 121\\ 81\\ 113\\ 404\\ 404\\ 245\end{array}$		$\begin{smallmatrix} 6, 320\\ 34\\ 815\\ 713\\ 151\\ 1, 384\\ 675\\ 100\\ 357\\ 425\\ 100\\ 357\\ 425\\ 100\\ 357\\ 425\\ 100\\ 357\\ 425\\ 100\\ 421\\ 306\\ 422\\ 306\\ 156\\ 156\\ 271\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 1$	$\begin{smallmatrix} 6, \ 667 \\ 33 \\ 900 \\ 647 \\ 136 \\ 800 \\ 227 \\ 388 \\ 388 \\ 208 \\ 446 \\ 297 \\ 149 \\ 40 \\ 101 \\ 305 \\ 544 \\ 34 \\ 444 \\ 332 \\ 154 \\ 444 \\ 244 \\ 154 \\ 244 \\ 154 \\ 244 \\ 244 \\ 154 \\ 244 \\ 244 \\ 155 \\ 154 \\ 244 \\ 244 \\ 244 \\ 244 \\ 244 \\ 155 \\ $	$\begin{array}{c} 7,498\\ 34\\ 1,014\\ 1,014\\ 143\\ 1,745\\ 602\\ 921\\ 222\\ 582\\ 432\\ 111\\ 214\\ 432\\ 280\\ 152\\ 280\\ 152\\ 94\\ 108\\ 418\\ 514\\ 30\\ 50\\ 442\\ 205\\ \end{array}$	$\begin{array}{c} 7, 584\\ 0.3\\ 1, 153\\ 165\\ 145\\ 1, 754\\ 854\\ 245\\ 546\\ 429\\ 112\\ 112\\ 112\\ 112\\ 107\\ 421\\ 107\\ 421\\ 107\\ 421\\ 107\\ 450\\ 107\\ 107\\ 107\\ 107\\ 107\\ 107\\ 107\\ 10$	$\left \begin{array}{c} 7,443\\ 88\\ 1,160\\ 1411\\ 1,671\\ 809\\ 810\\ 243\\ 502\\ 424\\ 107\\ 2111\\ 455\\ 200\\ 105\\ 117\\ 114\\ 454\\ 450\\ 34\\ 511\\ 886\\ 188\\ 188\\ \end{array}\right $	$\begin{smallmatrix} 0, 963\\ 42\\ 1, 086\\ 806\\ 783\\ 249\\ 453\\ 410\\ 100\\ 200\\ 442\\ 284\\ 410\\ 100\\ 200\\ 442\\ 284\\ 82\\ 82\\ 82\\ 82\\ 82\\ 82\\ 84\\ 444\\ 44$	266 146 74 83 388 283 28 28 36 370 174	$\begin{smallmatrix} 5, 473\\ 783\\ 783\\ 578\\ 153\\ 1, 352\\ 591\\ 557\\ 204\\ 814\\ 282\\ 983\\ 160\\ 381\\ 102\\ 282\\ 130\\ 64\\ 64\\ 282\\ 212\\ 317\\ 286\\ 158\\ 158\\ 177\\ 177\\ 177\\ 177\\ 177\\ 177\\ 177\\ 17$	
General contractors 4 40-hour, 5-day week 45-hour, 5-day week	332 77	9, 332 1, 900	10, 259 1, 996	13, 970 2, 808	16, 031 2, 792	16, 125 1, 696	18, 370 2, 105	20, 334 2, 832	21, 219 2, 791	20, 850 2, 563	19, 043 2, 233	16, 492 2, 115		22, 367, 946 4, 362, 118
General contractors 4 40-hour, 5-day week 50-hour, 5-day week All other 5-day week 44-hour, 5½-day week 491½-hour, 5½-day week 55-hour, 5½-day week All other 5½-day week 48-hour, 6-day week 60-hour, 6-day week All other 6-day week All other d-day week All other d-day week All other d-day week All other dedgy meek All other ded designated Not reported	79 4 4 10 42 35 62 6 8 5	$\begin{array}{c} \textbf{1, 567} \\ \textbf{03} \\ \textbf{250} \\ \textbf{51} \\ \textbf{1, 617} \\ \textbf{598} \\ \textbf{1, 361} \\ \textbf{42} \\ \textbf{1, 837} \\ \textbf{46} \end{array}$	$\begin{array}{c} 1, 626\\ 60\\ 313\\ 51\\ 1, 863\\ 601\\ 1, 549\\ 61\\ 2, 112\\ 27\end{array}$	$\begin{array}{c} 2, 197 \\ 70 \\ 207 \\ 104 \\ 2, 587 \\ 787 \\ 2, 263 \\ 105 \\ 2, 799 \\ 43 \end{array}$	2, 660 76 245 115 3, 060 1, 194 3, 775 182 1, 819 113	$\begin{array}{c} 2,473\\ 60\\ 425\\ 170\\ 3,420\\ 1,407\\ 4,702\\ 232\\ 1,281\\ 169\\ \end{array}$	2,770 88 587 231 3,900 1,849 5,170 236 1,169 265	2, 951 98 793 3, 943 2, 366 5, 626 260 819 276	3, 080 85 078 446 4, 370 2, 206 6, 059 245 930 320	$\begin{array}{c} 3,030\\ 93\\ 570\\ 483\\ 4,467\\ 2,347\\ 6,058\\ 250\\ 689\\ 300 \end{array}$	2, 585 89 580 253 4, 369 2, 081 5, 567 178 827 281	698 184 3, 883	$\begin{array}{c} 1,815\\ 59\\ 585\\ 115\\ 2,949\\ 1,028\\ 2,536\\ 63\\ 690\\ 92 \end{array}$	4, 708, 972 128, 874 492, 800 290, 432 4, 545, 004 1, 005, 739 4, 696, 698 241, 699 1, 704, 306 182, 221
Subcontractors	971	5, 467 1, 806	5, 265 1, 659	5,866 1,872	6, 509 2, 225	6, 320 1, 860	6, 667 2, 086	7, 496 2, 528	7, 584 2, 645	7, 443 2, 558	6, 963 2, 332	6, 485 2, 138	5,473 1,777	13, 145, 228 5, 471, 218
50-hour, 5-day week All other 5-day week 44-hour, 51/2-day week 491/2-hour, 51/2-day week 55-hour, 51/2-day week All other 51/2-day week 48-hour, 6-day week 64-hour, 6-day week All other 6-day week All other 6-day week All other o-day week All other o-day week All other not designated Not reported	1 162 1 8 24 13 9 5 4 4	9 2, 394 8 60 84 167 155 182 205 317 80	8 2, 207 10 71 87 171 208 198 204 381 61	8 2, 539 8 86 92 182 255 211 218 340 55	3 2, 789 8 95 106 230 222 256 160 363 52	3 2, 702 8 76 111 233 265 316 163 439 54	8 2, 703 0 75 109 238 377 384 167 411 40	13 8, 058 7 124 209 390 341 290 353 47	14 2, 990 6 75 120 261 430 387 305 297 54	12 2, 956 6 85 126 283 458 313 301 292 53	11 2, 931 5 73 140 260 377 244 258 268 268 64	$\begin{array}{r} 16\\ 2,799\\ 6\\ 66\\ 117\\ 229\\ 336\\ 193\\ 254\\ 282\\ 49\\ \end{array}$	16 2, 381 8 55 116 204 284 132 181 273 46	$\begin{array}{c} 29,678\\ 5,534,452\\ 9,336\\ 99,089\\ 181,390\\ 347,307\\ 397,254\\ 248,471\\ 260,850\\ 406,464\\ 159,719\end{array}$
KANSAS CITY	191	4, 625	4, 623	5, 757	7, 354	8, 375	9, 508	9, 645	10, 097	10, 009	9, 396	8, 455	6, 492	11, 825, 348
Classification of establishments Operative builders	73 39 28 7 4 13 3 4 6 8	369 2, 390 1, 252 1, 157 47 48 57 12 28 725 310	352 2, 671 1, 431 1, 309 43 70 64 12 19 714 331	652 3, 353 1, 779 1, 632 89 58 211 36 42 886 309	843 4, 439 2, 239 1, 996 163 80 357 63 48 1, 141 591	984 5, 187 2, 106 1, 758 240 108 494 180 45 1, 603 759	865 6, 410 2, 690 2, 043 404 243 723 315 70 1, 715 888	728 6, 574 2, 500 1, 977 208 255 860 247 49 1, 820 1, 098	856 6,969 2,640 2,083 357 200 855 202 49 2,104 1,119	1,007 6,803 2,407 1,851 255 301 908 134 77 2,002 1,095	785 6, 334 2, 170 1, 606 238 864 131 66 1, 983 1, 120	726 5, 512 1, 614 1, 074 352 188 612 101 114 1, 839 1, 232	592 4,010 1,458 1,015 270 173 163 69 84 1,333 903	1, 369, 088 6, 617, 944 3, 043, 490 2, 403, 731 388, 082 266, 677 695, 418 116, 500 119, 675 2, 013, 104 624, 697
Subcontractors Concreting Electrical Heating and plumbing Plumbing_ and heating combined Plumbing and heating combined Plastering and decorating Glass and glazing Plastering and lathing Roofing and sheet-metal work Roofing Sheet-metal work Marble and tiling Metal work, n. e. s. ⁶ Other classes ¹	5 18 12 6 9 4	$1,866\\371\\89\\527\\321\\149\\57\\166\\23\\93\\116\\73\\43\\43\\75\\27\\379$	$\begin{array}{c} 1,700 \\ 261 \\ 94 \\ 4790 \\ 244 \\ 172 \\ 63 \\ 105 \\ 24 \\ 76 \\ 105 \\ 64 \\ 411 \\ 60 \\ 355 \\ 450 \end{array}$	$1,752 \\ 246 \\ 95 \\ 528 \\ 202 \\ 200 \\ 60 \\ 124 \\ 22 \\ 98 \\ 141 \\ 98 \\ 43 \\ 66 \\ 61 \\ 31 \\ 401 \\ 140 \\$	2,072 360 112 205 68 155 24 125 160 90 60 85 33 432	$\begin{array}{c} 2,204 \\ 441 \\ 134 \\ 591 \\ 298 \\ 227 \\ 66 \\ 66 \\ 141 \\ 31 \\ 100 \\ 158 \\ 108 \\ 508 \\ 80 \\ 80 \\ 20 \\ 506 \end{array}$	2, 228 373 133 599 255 267 77 137 32 148 172 148 172 119 53 94 26 514	2, 343 3883 158 706 312 319 75 159 31 138 187 129 58 107 25 449	$\begin{array}{c} 2, 272 \\ 418 \\ 177 \\ 701 \\ 323 \\ 277 \\ 101 \\ 325 \\ 322 \\ 112 \\ 150 \\ 89 \\ 61 \\ 110 \\ 22 \\ 393 \end{array}$	2, 199 336 175 660 297 267 96 179 31 137 162 99 63 102 36 381	$\begin{array}{c} 2,277\\ 407\\ 161\\ 665\\ 291\\ 271\\ 103\\ 215\\ 33\\ 141\\ 178\\ 114\\ 59\\ 128\\ 12\\ 347\\ \end{array}$	$\begin{smallmatrix} 2, 217 \\ 328 \\ 152 \\ 662 \\ 372 \\ 197 \\ 93 \\ 232 \\ 34 \\ 156 \\ 162 \\ 104 \\ 104 \\ 104 \\ 88 \\ 92 \\ 16 \\ 383 \\ \end{smallmatrix}$	1,800 303 135 568 323 158 87 161 105 117 66 51 94 20 356	$\begin{array}{c} 3, 838, 311\\ 539, 006\\ 225, 838\\ 1, 214, 800\\ 504, 290\\ 470, 673\\ 149, 828\\ 382, 837\\ 62, 783\\ 202, 322\\ 277, 116\\ 137, 162\\ 137, 163\\ 139, 423\\ 197, 539\\ 53, 120\\ 563, 246\\ \end{array}$

See footnotes at end of table.

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TABLE 7 .--- WAGE EARNERS, BY MONTHS, AND WAGES PAID DURING 1929-Continued

CLASSIFICATION OF ESTABLISHMENTS AND	Estab- lish-	N	JMBER E	MPLOYE	O ON 151	H DAY C	OF THE M	IONTH O	R NEARI	EST REPR	ESENTA	TIVE DAY	·	Wages paid
LENGTH OF WORKING WEEK	ments report- ing	Janu- ary	Febru- ary	March	April	May	June	July	August	Septem- ber	Octo- ber	Novem- ber	Decem- ber	during year
KANSAS CITY-Continued.														
Length of working week												1		1.151.1
General contractors 4	. 91	2, 759	2, 923	4,005	5, 282	6, 171	7, 275	7, 302	7, 825	7, 810	7, 119	6, 238	4, 602	\$7, 987, 035
45-hour, 5-day week														
All other 5-day week														
44-hour, 5½-day week	42	1,053	949 50	1,136 56	1, 504 59	1,668 54	1,897 73	1, 803 81	1,999 70	2, 086 83	1,872 76	1,690	1,365 59	2, 442, 387 113, 674
General contractors 4 40-hour, 5-day week 50-hour, 5-day week All other 5-day week 44-hour, 51/2-day week 491/2-hour, 51/2-day week 55-hour, 51/2-day week All other 5/2-day week		14	19	21	16	15	5	12	10	11	6	4	7	10.00
48-hour, 6-day week	23	1,084	1, 292 83	1,890 125	2, 283 144	2, 558 168	3,009 156	3, 030 239	3, 424 199	3, 404 207	3, 374 150	3, 033 144	2, 329	8, 415, 224 211, 51
60-hour, 6-day week	5 12	387	456	660	1, 079	1, 379	1, 615	1, 702	1,704	1, 708	1, 390	1, 120	637	1, 572, 398
All other of any week	3	35	60	100	145	260	380	300	240	152	101	87	70	143, 075
Not reported	. 2	- 33	14	17	52	69	140	135	179	159	150	81	59	78, 76
40-hour. 5-day week	. 100	1,866	1,700 35	1,752	2, 072 35	2, 204 34	2,228 32	2, 343 32	2, 272 17	2, 199 16	2, 277 21	2, 217 21	1,890 12	8, 838, 311 59, 959
45-hour, 5-day week														
All other 5-day week				1 071	1 601	1 890					1,732			9,107,716
Subcontractors	- ² 1	1, 415 8	1,187	1, 271 8	1,521 8	1, 536 8	1, 545 9	1,753	1,694	1, 628 6	1,752	1, 721 6	1,461	3, 127, 716 9, 336
All other 512-day week	1.	13	11	15	25	27	21	29	24	31	44	29	34	52, 248 44, 548
48-hour, 6-day week	- 6	24 38	24 25	27 28	82 22 70	32 42	43 61	52 43 78	39 87	52 82	41 65	36 47	33 49	79,496
60-hour, 6-day week	- 2	25	32	40 2	$\frac{70}{2}$	92 1	110 2	78 4	105 11	91 9	102 7	76	20	55, 558
All other not designated	. 3	813	376	335	357	432	405	345	289	284	260	275	269	399, 450
ST, LOUIS		B, 882	8, 576	10, 868	11,047	9,685	10, 756	12, 506	18, 281	18, 121	11, 945	10, 686	8, 539	18, 816, 798
Classification of establishments	:		~~~~~						<u>-</u>			·	i	
Operative builders	11	90	. 87	159	202	174	128	133	171	151	92	67	61	211, 685
General contractors	1	5, 326	5,629	7, 876	7,224	6,240	7,073		8,925	8,804	8, 206		5,669	10, 678, 587
Building		2, 185	2, 267	3, 141	3.151	2,005	2,407		3, 109 2, 584	2,920	2, 516 2, 126	7,336	2,474	4.849.523
Building Building not specialized. Commercial building only. Residential building only.	59 10	196	1, 829 220	2, 579 262	2,579 206	180	$1,884 \\ 194$	2,625 272	244	2, 427 228	206	1,996 213	2, 164 198	4, 113, 234 328, 538
Residential building only Highway	- 12	196 44	218 44	300 72	366 183	249 303	- 329 394	305 466	281 442	265 400	184 267	151 200	112 85	407, 751 273, 943
Highway Bridge and culvert Grading	- 6	248 53	$195 \\ 64$	257 67	$249 \\ 168$	337 116	532 135	744 132	856 155	1,088 126	833 73	656 87	380 54	890, 823
Street paving	19	55 305	73 382	119 303	255	393 501	592 681	783 939	883 804	$1,\overline{102}$ 755	896 780	712	273 895	606, 52 534, 420
Levee 8	- 3	189	210	287	336 322	394	385	488	736	837	830	708	382	539, 056
Street paving Sewer, gas, water, conduit Levee ^a Railroad Other classes ^a	3	156 2,091	41 2, 353	97 3, 033	569 1,991	852 1,339	746 1, 201	710 877	1,035 905	1,008 628	1, 143 868	738 814	553 573	759, 889 2, 068, 665
	1	2, 916	2, 860	3, 333	3, 621	3, 271	3, 555	4, 032	4, 185	4, 106	3, 647	3, 283	2, 809	7, 926, 529
Subcontractors. Carpentering and wood flooring Concreting	3 12	21 410	19 351	29 367	38 480	22 286	20 439	16 521	47 593	25 658	30 551	29 526	19 337	66, 30 854, 226
Electrical.	- 36	412 153	379 152	432 159	473 159	517 151	450	501 143	492 145	514 14J	409 138	417 139	384 153	1, 252, 879 371, 011
Heating and plumbing Heating and piping ¹⁰ Plumbing	57 22	567 261	523 215	540 204	620 202	545 218	136 639 226	746 281	743	704 293	670 286	645 318	561 262	1, 732, 698 670, 88
Plumbing	35	306	308	336	418	327	413	465	430	411	384	327	299	1,061,80
Masonry Painting and decorating ¹¹	9 10	272 147	270 143	872 232	$\frac{362}{259}$	301 267	323 263 60	493 270 76	483 287	432 260	387 205	295 184	203 152 55	896, 10 590, 55
Masonry Painting and decorating ¹¹ Plastering and lathing Roofing and sheet-metal work	- <u>5</u> 19	66 121 84	69 127	66 162	259 70 178	59 175	188	$ \begin{array}{r} 76 \\ 156 \\ 119 \end{array} $	85 184	260 74 208 157	68 182	54 171	134	145,60 300,05 221,47
Roofing. Sheet-metal work. Steel erection	- 13	84	88 39	121 41	181 47	130 45	146 42	37	147 37	157 51	136 46	125	93 41	1 78.574
Steel erection	- 3	33 76	62 79	65	113 95	45 30 99	30 101	83 108 274	82 111	95 114	79 84	68	56 70	163, 73 189, 67
Marble and tiling	20	244	248	303 332	279	309 343	101 280 454	274	299 436	313 - 382	209 258	83 259 221	234 183	1 621.53
Stone work Marble and tiling Excavating and grading Ornamental iron work Metal work, n. e. s	10 3 10	228 25	281 31	24 137	299 33	18	25	446	33	28	. 31	22	24	376, 05 52, 29 813, 40
Metal work, n. e. s Length of working week	- 10	141	126	137	163	149	147	167	165	158	166	170	154	818,40
General contractors f	142	5, 416	5, 716	7, 535	7.426	6, 414	7.201	8.474	9,096	9,015	8, 298	7.403	5,730	10, 890, 26
40-hour, 5-day week	73	5,416 1,893	1, 988	2, 797	7, 426 2, 780	1, 675	7, 201 2, 080	8, 474 2, 800	2, 765	2, 535	8, 298 2, 213	7, 403 2, 107	2, 262	10, 890, 269 4, 334, 62
50-hour, 5-day week														
General contractors 4 40-hour, 5-day week 45-hour, 5-day week 50-hour, 5-day week All other 5-day week 44-hour, 5½-day week 49½-hour, 5½-day week 56-hour, 5½-day week All other 5½-day week All other 5½-day week	13	329	319	401	465	366	334	378	395	422	307	230	176	611,65
49½-hour, 5½-day week	2	223	286	180	220	385	535	734	632	531	535	662	557	412,66
All other 5½-day week	64	223 31 359	286 28 374	48 414	56 415	109 444	178 524	299 517	391 438	445 419	535 232 463	662 167 430	79 392	$\begin{array}{r} 412,66\\ 249,953\\ 658,75\\ 1,237,460\\ 1,715,33\end{array}$
54-hour, 6-day week	19	353	355	431	621	725	1.082	1.379	1,429	1, 736 2, 365	1,476	1, 181	616	1,237,460 1,715,33
All other of ay week. 54-hour, 6-day week. 60-hour, 6-day week. All other 6-day week. All other of designated.	15 5	430 25 1, 772	329 81	569 50	1,181 133 1,604	121	1,655 130	1, 806 149	2, 320 148	162	2,399 77 595	59	1,026	1 1/0,90
All other not designated	4	1,772 1	2,005 1	2,644	1,604	931 1	682 1	411 1	577 1	409	595 1	752	560 1	1, 491, 74 2, 10
See footnotes at end of table.	N 2				2		·			•• •				

TABLE 7.--WAGE EARNERS, BY MONTHS, AND WAGES PAID DURING 1929---Continued

CLASSIFICATION OF ESTABLISHMENTS AND	Estab- lish-	N	UMBER I	EMPLOYE	D ON 151	TH DAY (OF THE 1	40NTH C	R NEARI	CST REPR	ESENTA'	TIVE DAY	<u>-</u>	
LENGTH OF WORKING WEEK	ments report- ing	Janu- ary	Febru- ary	March	April	Мау	June	July	August	Septem- ber	Octo- ber	Novem- ber	Decem- ber	Wages paid during year
ST. LOUIS-Continued.														
Length of working week-Continued														
Subcontractors. 40-hour, 5-day week 45-hour, 5-day week 50-hour, 5-day week	204 128	2,916 1,728	2,860 1,567	3, 333 1, 780	3, 621 2, 115	3, 271 1, 745	3, 555 1, 970	4, 032 2, 399	4, 185 2, 529	4, 106 2, 454	3, 647 2, 238	3, 283 2, 047	2,809 1,722	\$7, 926, 529 5, 230, 080
All other 5-day week	52	9 761	8 820	8 1, 033	3 1, 005	8 981	8 943	13 976	14 993	12 1,036	11 912	16 803	16 698	29,678 1,942,865
55-hour, 5½-day week All other 5½-day week 48-hour, 6-day week 54-hour, 6-day week	1 5 4 4		71 65 87 95 124		95 69 46 98 123	76 72 31 137 152	75 75 28 216 179 21	76 80 33 219 175	75 80 36 219 165	85 79 41 217 111	73 73 37 179 87	66 68 35 139 86	55 66 34 69 77	99,089 106,309 50,139 145,276 129,371
60-hour, 6-day week. All other 6-day week. All other not designated. Not reported.	2 4	14 	12 61	23 55	15 52	20 54	21 40	14 47	20 54	18 53	23 64	24 49	26 46	34, 003 159, 719

¹ Includes dam and reservoir; waterworks; oil and natural gas pipe line; and telephone line and system.
² Includes pipe covering; and automatic temperature control.
³ Includes sewer, gas, water, and conduit; power plant; and flooring, n. e. s.
⁴ Includes sewer, gas, water, conduit; dam and reservoir; waterworks; dredging, river and harbor, etc.; central station, light and power plant; and telephone line and system.
⁶ Includes sever, gas, water, conduit; dam and reservoir; waterworks; dredging, river and harbor, etc.; central station, light and power plant; and telephone line and system.
⁶ Includes sever, gas, water, conduit; sewer, gas, water and conduit; railroad; and power plant.
⁶ Includes excavating; bridge and culvert; sewer, gas, water and conduit; railroad; and power plant.
⁸ Includes ging, river and harbor, etc.
⁹ Includes pipe covering; and plumbing and heating combined.
¹⁰ Includes ginss and glazing; and flooring, n. e. s.

TABLE 8.-EXPENDITURES OF REPORTING ESTABLISHMENTS: 1929

	nts		PRINCIPALI	TEMS OF EX	PENDITURE			OTHE	R ITEMS O	F EXPENI	DITURE		
CLASSIFICATION OF ESTABLISHMENTS	blishme reporting	Value of construc- tion busi-	- -	-	4 ^{- 1}	Sal	aries	Ren	t for		Contract	Compen- sation	
	Establi repo	ness re- ported	Subcon- tract work let	Wages paid	Cost of materials	Proprie- tors and firm members	ployees	Equip- ment	Offices, etc,	Interest	hand	and liability insur- ance pre- miums	All other overhead expenses
MISSOURI	676	\$141, 088, 855	\$30, 435, 000	\$34, 107, 473	848, 469, 149	\$670, 147	\$7, 408, 452	8472, 943	\$585, 729	\$507, 503	8634, 416	\$1,891,751	\$7, 747, 072
Operative builders	28	6, 591, 832				39, 035	-,			114, 904	6, 000	34, 332	110, 226
General contractors Building Building not specialized Commercial building only Residential building only Highway Bridge and culvert Grading Street paving Sewer, gas, water, conduit Dredging, river, harbor, etc Railroad	165 123 17 25 35 13 12 31 81 8	53, 805, 238 44, 218, 850 4, 280, 430 5, 305, 958	$\begin{array}{c} 1,005,000\\ 2,218,000\\ 569,000\\ 33,000\\ 232,000\end{array}$	9, 571, 503 7, 938, 723 677, 775 955, 005 1, 950, 684 2, 085, 066 280, 118 785, 783 709, 731 629, 160	$\begin{array}{c} 20,502,833\\ 13,409,621\\ 10,047,333\\ 2,041,477\\ 1,410,811\\ 2,210,458\\ 1,780,228\\ 10,879\\ 2,278,331\\ 718,881\\ 777,358\\ 1,332,470 \end{array}$	118, 225 95, 383 7, 680 15, 162 79, 450 12, 670 12, 876	2, 180, 378 1, 759, 257 211, 801 209, 320 380, 450 349, 604 79, 394 310, 897	812, 833 36, 256 21, 068 4, 605 10, 493 87, 083 28, 600 1, 785 8, 781 95, 968 7, 100 19, 372	137,935 109,233	$\begin{array}{c} 95,830\\73,241\\4,182\\18,407\\53,441\\21,338\\5,068\\33,796\\10,406\\8,036\\\end{array}$	$\begin{array}{c} 226, 568\\ 216, 460\\ 5, 717\\ 4, 385\\ 87, 492\\ 63, 584\\ 4, 487\\ 36, 952\\ 57, 186\\ 25, 761\end{array}$	413, 455 341, 496 37, 711 34, 248 83, 859 97, 818 11, 047 40, 517 45, 329 31, 404	1, 300, 294 1, 110, 129 53, 986 136, 179 823, 304 327, 990 198, 309 607, 122 220, 693 362, 658
Railroad Central station, light and power plant. Other classes ¹	5 5	3, 473, 544 8, 493, 152	20, 000 1, 182, 000	855, 860 1, 501, 767	1, 768, 849 5, 116, 758		81, 055 210, 774	25, 708 2, 120	5, 402 4, 420	2, 179 6, 455	46, 128 9, 548	18, 279 70, 952	209, 364 403, 829
Subcontractors. Carpentering and wood flooring Concreting Electrical Elevator construction Heating and plumbing Heating and plping ² Plumbing. Plumbing bined.	363 6 24 59 3 115 35 58	446, 234 4, 423, 242 4, 728, 787 1, 611, 809 12, 798, 828 5, 070, 425	1, 262, 000 10, 000 23, 000 1, 000 517, 000 412, 000 96, 000	1, 520, 245 1, 685, 558 371, 015 3, 324, 769 1, 233, 482	17, 370, 960 202, 141 1, 343, 258 1, 902, 203 1, 012, 129 6, 419, 443 2, 447, 891 3, 152, 284	12, 800 59, 188	415, 937 62, 819 743, 669 836, 106	156, 496 15, 373 1, 545 2, 122 972 1, 150	3, 874 21, 008 47, 153 5, 537 88, 924 36, 440	670 24, 564 12, 957 40, 119	8, 836 5, 956 696 15, 495	428, 201 2, 587 78, 800 46, 324 15, 737 68, 530 27, 737 33, 634	$\begin{array}{c} 2,632,028\\ 32,230\\ 360,475\\ 279,482\\ 25,410\\ 634,420\\ 243,116\\ 327,661 \end{array}$
Plumbing and heating com- bined	$12 \\ 17 \\ 5 \\ 10 \\ 39 \\ 24 \\ 15 \\ 4 \\ 32 \\ 32 \\ 10 \\ 5 \\ 8 \\ 11 \\ 11$	$\begin{array}{c} 2,954,105\\ 1,800,701\\ 812,125\\ 885,038\\ 2,480,887\\ 1,511,982\\ 974,905\\ 1,047,508\\ 713,761\\ 2,791,324\\ 1,088,510\\ 549,813\\ 122,757\end{array}$	7, 000 13, 000 10, 000	1, 051, 450 195, 100 407, 922 035, 723 341, 329 294, 394 184, 738 143, 770 863, 932	$\begin{array}{c} 819, 268\\ 1, 367, 838\\ 356, 619\\ 366, 730\\ 286, 397\\ 1, 114, 738\\ 689, 070\\ 425, 668\\ 272, 855\\ 446, 470\\ 1, 144, 092\\ 10, 500\\ 282, 675\\ \hline \\ 678, 849\\ 174, 020\\ \end{array}$	45, 190 20, 550 16, 916 56, 354 23, 177 33, 716 56, 354 23, 177 	$\begin{array}{c} 81, 130\\ 51, 119\\ 226, 369\\ 155, 888\\ 70, 481\\ 86, 074\\ 31, 615\\ 243, 615\\ 71, 431\\ 51, 289\\ 4, 954\\ 116, 430\end{array}$	924 300 1, 360 1, 360 1, 630 129, 230	19, 546 7, 230 30, 556 16, 599 13, 957 5, 400 4, 248 18, 280 4, 487 12, 572 15, 652	$\begin{array}{c} 4,860\\ 5,548\\ 2,153\\ 1,076\\ 2,876\\ 12,707\\ 5,649\\ 7,058\\ 3,628\\ 7,95\\ 6,628\\ 7,555\\ 2,034\\ 4,202\\ 2,798\\ 4,211\end{array}$	1, 444 1, 109 	24, 074 3, 416 10, 306 33, 897 23, 615 10, 282 26, 295 9, 788 16, 076 23, 035 5, 634 1, 556 8, 593	$\begin{array}{c} 24,881\\ 224,763\\ 134,205\\ 90,558\\ 26,254\\ 16,610\\ 232,532\\ 213,651\\ 37,890\\ 54,873\\ 143,278\end{array}$

TABLE 8.- EXPENDITURES OF REPORTING ESTABLISHMENTS: 1929-Continued

	nts		PRINCIPALI	TEMS OF EX	PENDITURE			OTHER	R ITEMS O	F EXPEND	ITURE		
a da anti-	ishme borting	Value of construc-				Sal	aries	Ren	t for			Compan- sation	
CLASSIFICATION OF ESTABLISHMENTS	Establis] report	tion busi- ness re- ported	Subcon- tract work let	Wages paid	Cost of materials	Proprie- tors and firm members	Em- ployees	Equip- ment	Offices, etc.	Interest	Contract bond pre- miums	and liability insur- ance pre- miums	All other overhead expenses
KANSAS CITY	181	\$39, 126, 324	\$5, 323, 000	\$10,887,437	\$14,295,027	\$243, 369	\$2,101,397	\$144, 633	\$169, 820	\$199, 054	\$175, 802	\$441, 919	\$2, 253, 921
Operative builders	14	3, 317, 760	676, 000	844, 302	1, 215, 121	1, 040	101, 430	3, 354	11, 638	86, 894	6, 000	20, 016	40, 558
General contractors. Building. Building not specialized. Commercial building only. Residential building. Highway. Street paving. Railroad, bridge, and culvert Other classes 4.	$\begin{array}{c} 71 \\ 38 \\ 28 \\ 6 \\ 4 \\ 13 \\ 4 \\ 7 \\ 9 \end{array}$	23, 980, 018 12, 280, 555 9, 465, 620 1, 412, 928 1, 402, 007 2, 515, 030 560, 668 6, 173, 303 2, 450, 432	$\begin{array}{c} 4,171,000\\ 3,842,000\\ 2,900,600\\ 463,000\\ 153,000\\ 1,53,000\\ 1,000\\ 0,000\\ 106,000 \end{array}$	$\begin{array}{c} 6, 458, 455\\ 2, 939, 441\\ 2, 324, 569\\ 358, 195\\ 256, 677\\ 695, 418\\ 119, 675\\ 2, 109, 463\\ 594, 458 \end{array}$	$\begin{array}{c} 8,520,106\\ 4,000,377\\ 3,011,278\\ 551,601\\ 443,498\\ 1,000,689\\ 291,344\\ 2,173,988\\ 1,053,708 \end{array}$	101, 793 54, 293 36, 251 4, 880 13, 162 47, 500	$1, 215, 671 \\589, 403 \\483, 579 \\35, 112 \\70, 712 \\122, 121 \\27, 990 \\339, 267 \\136, 890$	102, 827 19, 170 7, 102 2, 978 9, 090 36, 302 4, 719 32, 776 9, 800	65, 239 34, 170 24, 840 4, 170 5, 160 9, 594 1, 260 14, 520 5, 695	71, 597 20, 401 17, 466 2, 155 780 21, 178 300 9, 661 20, 057	154, 837 29, 141 29, 141 32, 312 4, 804 59, 487 29, 093	317, 088 144, 082 115, 430 17, 602 11, 050 23, 527 6, 210 114, 592 28, 677	$\begin{matrix} 1, 428, 113\\ 277, 043\\ 218, 857\\ 6, 961\\ 51, 225\\ 237, 941\\ 107, 121\\ 619, 128\\ 186, 880 \end{matrix}$
Subcontractors	. 96	$\begin{array}{c} \textbf{11, 828, 546} \\ \textbf{1, 480, 576} \\ \textbf{1, 022, 847} \\ \textbf{4, 969, 835} \\ \textbf{2, 272, 993} \\ \textbf{2, 040, 609} \end{array}$	476, 000 	3, 584, 680 539, 606 302, 828 1, 222, 358 594, 299 470, 673	4, 553, 800 328, 266 452, 973 2, 337, 126 928, 893 1, 047, 910	140, 536 5, 400 20, 600 33, 994 8, 860 5, 560	784, 296 139, 808 81, 266 247, 260 118, 237 110, 286	38, 452 3, 236 693	92, 943 9, 323 13, 324 26, 942 17, 493 4, 088	40, 563 9, 955 2, 899 11, 083 5, 213 3, 713	14, 465 4, 239 712 5, 316 2, 592 967	104, 815 25, 394 5, 355 25, 705 12, 515 8, 930	785, 250 178, 163 47, 663 224, 391 122, 782 77, 888
Concreting Electrical Heating and plumbing Heating and plumbing Plumbing Plumbing Plumbing and heating com- bined Plantering and decorating Plastering and glazing Roofing and sheet-metal work Roofing Sheet-metal work. Marble and tiling Other classes ⁵	9 5 16 10 6 10 8	$\begin{array}{c} 056,233\\ 558,505\\ 227,217\\ 606,321\\ 1,067,540\\ 666,732\\ 400,808\\ 710,673\\ 1,185,032\\ \end{array}$	8,000 13,000 2,000 2,000 2,000	157, 386 342, 783 62, 783 262, 322 257, 231 117, 808 139, 423 214, 712 380, 057	360, 323 96, 272 104, 362 219, 131 508, 070 336, 525 171, 545 282, 688 224, 912	$\begin{array}{c} 19,574\\7,173\\12,577\\19,200\\26,623\\5,000\\21,623\\5,369\\9,600\end{array}$	$\begin{array}{c} 18,737\\ 31,833\\ 4,600\\ 29,854\\ 93,041\\ 77,320\\ 15,715\\ 84,769\\ 71,865\\ \end{array}$	300 1, 360 1, 360 32, 863	5, 361 3, 013 5, 246 5, 270 12, 279 6, 379 5, 900 10, 321 7, 225	$\begin{array}{c} 2, 157 \\ 314 \\ 926 \\ 1, 066 \\ 2, 543 \\ 2, 120 \\ 423 \\ 6, 678 \\ 5, 099 \end{array}$	1, 757	4, 200 8, 251 904 5, 860 12, 296 8, 655 3, 641 3, 632 17, 418	$\begin{array}{c} 23,721\\ 16,134\\ 17,873\\ 17,826\\ 84,433\\ 56,660\\ 27,767\\ 54,947\\ 143,820\\ \end{array}$
ST. LOUIS	847	87, 036, 892	22, 851, 000	19, 136, 952	28, 725, 564	266, 575	4, 631, 937	264, 575	353, 556	209, 620	862, 855	787, 410	4, 448, 165
Operative builders	. 11	2,657,072	1, 865, 000	199, 742	227, 485	37, 995	91, 122	260	4, 700	14, 960		9, 416	62, 168
General contractors Building	$\begin{array}{c} 131 \\ 84 \\ 59 \\ 10 \\ 15 \\ 5 \\ 0 \\ 7 \\ 17 \\ 4 \\ 3 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5$	$ \begin{bmatrix} 58, 518, 063\\ 36, 127, 174\\ 29, 831, 143\\ 2, 840, 695\\ 3, 455, 336\\ 1, 004, 751\\ 2, 154, 873\\ 692, 045\\ 3, 374, 495\\ 1, 436, 867\\ 1, 495, 719\\ 12, 232, 139 \end{bmatrix} $	20, 273, 000 18, 421, 000 18, 293, 000 515, 000 1, 613, 000 7, 000 232, 000 263, 000 1, 215, 000	$\begin{matrix} 10, 876, 050\\ 5, 240, 282\\ 4, 317, 466\\ 319, 580\\ 603, 236\\ 215, 755\\ 890, 823\\ 205, 959\\ 527, 769\\ 505, 094\\ 759, 889\\ 2, 530, 470 \end{matrix}$	$\begin{array}{c} 17,471,099\\7,573,403\\5,323,577\\1,489,876\\759,950\\386,804\\509,470\\7,879\\1,556,454\\374,294\\276,333\\6,786,462 \end{array}$	38, 512 36, 012 33, 212 2, 800 2, 500	$\begin{array}{c} 2, 510, 684 \\ 1, 432, 358 \\ 1, 127, 951 \\ 176, 689 \\ 127, 718 \\ 70, 170 \\ 105, 005 \\ 57, 994 \\ 251, 716 \\ 58, 750 \\ 157, 942 \\ 322, 749 \end{array}$	$\begin{smallmatrix} 147, \ 791 \\ 9, \ 052 \\ 6, \ 152 \\ 1, \ 709 \\ 1, \ 191 \\ 1, \ 940 \\ 7, \ 800 \\ 585 \\ 2, \ 662 \\ 88, \ 708 \\ 6, \ 596 \\ 30, \ 388 \end{smallmatrix}$	$ \begin{vmatrix} 152,070\\90,267\\72,135\\7,818\\10,314\\3,106\\5,504\\2,050\\28,260\\5,505\\5,738\\11,640 \end{vmatrix} $			$\begin{array}{c} 487,554\\ 222,674\\ 131,982\\ 20,006\\ 20,686\\ 12,527\\ 34,385\\ 8,565\\ 27,760\\ 31,836\\ 52,768\\ 97,039\\ \end{array}$	$\begin{array}{c} 2, 863, 308\\ 898, 844\\ 772, 844\\ 47, 025\\ 78, 975\\ 160, 729\\ 147, 745\\ 117, 864\\ 453, 615\\ 175, 022\\ 69, 669\\ 839, 910 \end{array}$
Subcontractors Carpontering and wood flooring Concreting Electrical Heating and plumbing Heating and plumbing Heating and plumbing Plumbing Painting and decorating ⁸ Plastering and lathing Roofing and sheet-metal work Sheet-metal work Steel crection Steel crection Stoel crection Excavating and grading Ornamental iron Metal work, n. e. S	- 205	$\begin{array}{c} 25, 861, 757\\ 268, 612\\ 268, 612\\ 2, 620, 123\\ 3, 334, 185\\ 1, 611, 809\\ 6, 084, 856\\ 2, 707, 761\\ 8, 376, 595\\ 2, 789, 977\\ 1, 007, 878\\ 278, 717\\ 1, 059, 486\\ 713, 761\\ 1, 872, 838\\ 713, 761\\ 1, 872, 837\\ 822, 370\\ 82$	713,000 10,000 	66, 305 848, 605 1, 258, 565 371, 015 1, 696, 013 645, 880 1, 050, 124 971, 432	$\begin{array}{c} 11,026,980\\ 112,709\\ 885,831\\ 1,288,451\\ 1,012,129\\ 3,105,368\\ 1,434,704\\ 1,670,064\\ 1,267,197\\ 475,085\\ 67,266\\ 418,040\\ 300,245\\ 117,796\\ 300,245\\ 117,796\\ 272,855\\ 2446,470\\ 779,072\\ 1,500\\ 270,038\\ 624,969\\ \end{array}$	190,068 4,680 5,000 24,500 	$\begin{array}{c} 2,024,131\\ 30,139\\ 187,859\\ 310,803\\ 02,819\\ 02,819\\ 036,784\\ 230,917\\ 205,881\\ 184,029\\ 176,004\\ 21,205\\ 110,010\\ 07,602\\ 42,248\\ 86,074\\ 31,615\\ 145,007\\ 68,385\\ 47,824\\ 110,430\\ \end{array}$	110, 524 11, 302 862 1, 377 972 405 3, 112 924 1, 630 96, 907 300	$\begin{array}{c} 196, 786\\ 3, 124\\ 11, 100\\ 30, 882\\ 5, 537\\ 46, 044\\ 18, 477\\ 27, 567\\ 4, 719\\ 33, 562\\ 1, 960\\ 9, 850\\ -3, 180\\ 5, 400\\ 5, 400\\ -4, 248\\ -7, 109\\ 2, 927\\ -11, 672\\ 15, 472\\ \end{array}$	$\begin{array}{c} 72,074\\ 183\\ 11,740\\ 9,373\\ \hline \\ 20,808\\ 4,797\\ 16,011\\ 1,332\\ 1,810\\ 4,002\\ 3,329\\ 3,628\\ 3,628\\ 2,768\\ 2,034\\ 2,798\end{array}$	$\begin{array}{c} 15,419\\ \hline 1,123\\ 4,376\\ 000\\ 5,638\\ 4,444\\ 1,369\\ 1,059\\ \hline 605\\ 530\\ 75\\ \hline 530\\ 75\\ \hline 51\\ 400\\ \hline 02\\ \hline 102\\ \hline \end{array}$	$\begin{array}{c} 200, 440\\ 1, 371\\ 43, 125\\ 86, 687\\ 15, 737\\ 55, 180\\ 20, 081\\ 15, 699\\ 20, 081\\ 15, 632\\ 4, 446\\ 18, 019\\ 14, 400\\ 4, 219\\ 25, 205\\ 9, 788\\ 10, 194\\ 19, 988\\ 5, 445\\ 8, 603\\ \end{array}$	$\begin{smallmatrix} 1, 522, 599\\ 222, 000\\ 152, 046\\ 203, 262\\ 25, 410\\ 290, 301\\ 110, 380\\ 170, 912\\ 66, 192\\ 108, 909\\ 7, 055\\ 108, 909\\ 31, 454\\ 26, 254\\ 16, 610\\ 124, 179\\ 192, 673\\ 35, 878\\ 141, 928\\ \end{smallmatrix}$

¹ Includes water works; dam and reservoir; levee; and, oil and natural gas pipe line.
² Includes pipe covering; and automatic temperature control.
³ Includes bridge and oulvert; railroad; central station, light and power plant; flooring, miscellaneous, n. e. s.; and miscellaneous, n. e. s.
⁴ Includes bridge and oulvert; railroad; central station, light and power plant; flooring, river and harbor, etc.; and central station, light and power plant.
⁴ Includes occavating; ornamental iron work; bridge and culvert; railroad; power-plant work; metal work, miscellaneous, n. e. s.; and miscellaneous, n. e. s.
⁶ Includes dredging, river and harbor, etc.; levee; central station, light and power plant; and oil and natural gas pipe line.
⁶ Includes gipse covering; and plurnbing and heating combined.
⁸ Includes glass and glazing; and flooring, n. e. s.

TABLE 9.—COST OF MATERIALS FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929, BY KIND

								<u></u>			
	COST	OFI	ATERIA	LS REPORTI	D BY		COST	OF M	ATERIA	LS REPORTE	D B¥
	All classe lishi	es of e ments					All classe lish	es of e ments			
KIND OF MATERIAL	Amount	Per cent dis- tri- bu- tion	Por \$1,000 con- struc- tion work done ¹	General con- tractors ²	Subcon- tractors	RIND OF MATERIAL	Amount	Per cent dis- tri- bu- tion	Per \$1,000 con- struc- tion work done ¹	General con- tractors ?	Subcon- tractors
MISSOURI						KANSAS CITY-Continued.					
All kinds of material Distribution not reported	\$52, 422, 043 9, 826, 543	18.7	\$435. 78	\$33, 855, 944 6, 638, 225	\$18, 566, 099 3, 188, 318	Distributed by kind—Continued. Lime	\$18,601	0.1	\$0.62	\$10, 334	\$8, 267
Distributed by kind Sand, gravel, stone, slag, cinders, etc	42, 595, 500 4, 206, 745				15, 377, 781 464, 721	Plaster, etc Structural steel Reinforcing steel. Cast iron, miscellaneous, exclud-	\$18, 601 143, 941 694, 018 786, 729	1, 1 5, 5 6, 3	4. 82 23. 25 26. 36	40, 031 543, 917 679, 047	\$8, 267 103, 910 150, 101 107, 682
etc. Brick (face, common, fire, pav- ing, etc.) Tile, (fireproofing) Tile, facing, terra cotta, floor and	1, 432, 961 261, 236	3.4 .6	$14.60 \\ 2.67$	912, 690 138, 135	520, 271 123, 101	ing pipe Metal doors, windows, and trim Metal and wire lath and furring Ornamental metal work	18, 311 143, 916 45, 070 37, 331	.4		$18,311 \\102,276 \\18,863 \\14,791$	41, 640 26, 207 22, 540
wall Concrete and cinder block Cut stone, grapite, and marble	729, 915576, 7441, 087, 739668, 9862, 722, 512	1.7 1.4 2.6 1.0	7.47 5.90 11.13 6.85	564, 209	441, 071 12, 535 548, 896 26, 027	Lumber, rough and finished	1, 382, 841	11.0 .3 2,5	46, 33 1, 13 10, 46	1, 301, 217 32, 671 312, 361	81, 624 1, 073 338, 726
Riprap, rubble, etc Cemont Lime Plaster, etc Structurel steel		.2	27, 86 . 89 2, 27	49,000	343, 362 37, 501 110, 354 717, 497	Millwork. Composition board. Waterproofing materials Hardware, rough and finished Paints, variishes, and glass. Roofing and sheet motal. Finished flooring, other than comput wood of the	30, 621 178, 233 227, 439 632, 645	1.4	1, 33 5, 97 7, 62	21, 172 169, 887 64, 575	18, 449 8, 346 162, 864
Plaster, etc Structural steel Reinforcing steel. Cast iron, miscellaneous, exclud- ing pipe	91,010	4.8	20.75	36, 107	55, 408 247, 435	Screens, shades, awnings, etc	16, 432 06, 709		S	16, 432	
ing pipe Metal doors, windows, and trim Metal and wire lath and furring Ornamental metal work	432, 422 117, 642 245, 620	.3	L 2.511	40, 553	77, 089 218, 204	Heating and ventilating equip- ment Plumbing and gas fitting equip-	645, 754			54, 852	
Lumber, rough and finished Lath, shingles and shakes (wood)_	245, 620 3, 088, 219 76, 554 1, 016, 173	2 2	31.59 .78	2, 840, 984 63, 018 1, 009, 357	247,235 13,536	Electrical appliances and sup-	099, 277 055, 759			103, 405 116, 121	
Millwork Composition board Waterproofing materials	453, 363 321, 541	1.1	1 4 8 41	1,005,537 60,930 246,228	302, 424 75, 313	plies Elevators, dumb-waiters, and equipment	278, 744			278, 744	
Hardware, rough and finished Paints, varnishes, and glass	470, 157 783, 165	$ 1.1 \\ 1.8$	4.81 8.01	105,976	20, 465 677, 189	Pipe: Drain tile, vitrified, con- crete, segment tile, corrugated Pipe: Cast-iron, sheet and tube	220, 957	1.8	• 7,40	202, 939	18, 018
Roofing and sheet metal Finished flooring, other than coment, wood or tile	1, 280, 978 178, 210	.4		105, 911	1, 019, 386 72, 299 57, 650	steel, etc	77, 526 37, 254	.6 .3	$\begin{array}{c} 2.\ 60 \\ 1.\ 25 \end{array}$	29, 785 37, 104	47, 741 150
Screens, shades, awnings, etc Heating and ventilating equip- ment	89, 583 2, 626, 540				2, 163, 611	Wire cable, guards, and lencing Bituminous paving materials, tar, asphalt and oil Ready mixed concrete Machinery Freight, hauling or trucking to job Cast forms, beads, etc Chemicals and chemical products. Matal products. n. e. s. (includ-	96, 785 344, 275	.8 2.7	3. 24 11. 53	91, 785 314, 275	5,000 30,000
ment Plumbing and gas fitting equip- nent Electrical appliances and sup-	3, 197, 406		32, 71	296, 090	2, 901, 816	Ready mixed concrete	344, 275 232, 825 22, 200	$1.9 \\ .2$	7.80 .75	314, 275 212, 741 22, 200	20, 084
Electrical appliances and sup- plies. Elevators, dumb-waiters, and	3, 570, 666	8, 4	80. 58	1, 541, 917	2, 028, 749	job Cast forms, beads, etc	13, 282 5, 918 2, 100	.1 (³)	. 45 . 20	5, 973	7, 309 5, 918
equipment Pipe: Drain tile, vitrified, con- crote, segment tile, corrugated	1, 240, 582		12.69	281, 127	959, 455	Chemicals and chemical products. Metal products, n. e. s. (includ-			.07		2, 100
	421, 381 4, 026, 989		4. 31 41. 20	353, 802 3, 927, 787	67, 579 99, 202	Mineral products (non-metallic)	3, 11 6 10, 911	(⁰) , 1	. 11 . 37		3, 116
Pipe: Cast-iron, sheet and tube steel, etc. ⁴ . Wire cable, guards, and fencing Bituminous paving materials, tar, asphalt and oil Wood piling and timber Ready mixed concrete	4,020,989	. 2	. 69	51, 581	16, 286	Metal products, n. e. s. (includ- ing metal furniture)	550 1,132 43,507	(8)	. 02 . 04 1. 46	532	550 600 6, 554
Wood piling and timber	425, 550 540, 916 423, 918 495, 431	1, 0 1, 3 1, 0	5.53 4.34	400, 728 510, 916 361, 436	24, 822 30, 000 62, 482	ST. LOUIS					
Machinery Freight, hauling or trucking to	495, 431		5.07	495, 431		All kinds of material. Distribution not reported	29, 946, 509 5, 189, 342	17.3	445.75	18, 493, 847 3, 404, 479	11, 452, 662 1, 784, 863
Machinery Freight, hauling or trucking to job. Cast forms, beads, etc Chemicals and chemical products.	39, 232 5, 918 2, 100	(3) (3) (3)	. 40 . 06 . 02	31, 923	7, 309 5, 918 2, 100	Distributed by kind.	24, 757, 167	100, 0		15, 089, 368	9, 667, 799 358, 780
ing metal furniture)	176, 994		1, 81	142, 527	34, 467	Ctc. Brick (face, common, fire, pav- ing, etc.) Tile (freproofing)	1, 953, 572 972, 358	7.9 3.9	85, 17 17, 51	1, 594, 792 547, 535	
n. e. s. Sealing materials. Textiles and caulking materials	58, 832 550	(8)	(4)	23, 074	85, 758 550	Tile, facing, terra cotta, floor, and	972, 358 187, 882 483, 324	.8 2.0	3, 38 8, 70	547, 535 64, 781 182, 832	123, 101 300, 492
Miscollaneous KANSAS CITY	5, 849 150, 574	.4	. 06 1. 54	665 96, 855	5, 184 53, 719	wall Concrete and cinder block Cut stone, granite and marble Riprap, rubble, etc Coment Lime	268 336	1.5 3.3 .0	6, 63 14, 83 2, 65 20, 22	182,832 361,924 376,235 123,137	6,412 447,471 24,027 277,782
All kinds of material Distribution not reported	15, 733, 407 3, 163, 559	20, 1	421, 10	10, 831, 670 2, 392, 320	4, 901, 737 771, 239	Cement Lime Plaster, etc Structural steel	1, 123, 297 54, 301 54, 645 1, 540, 765	4.5 .2 .2 6.2	. 98 . 99 97 74		277,782 27,511 6,444 564,488
Distributed by kind Sand, gravel, stone, slag, cinders,	12, 569, 848			8, 439, 350	4, 130, 498 00, 174	Plaster, etc Structural steel Reinforcing steel Cast iron, miscollaneous, exclud- ing pipe	819, 771	3. 3	14.76 1,18		235, 185
etc Brick (face, common, fire, pav- ing, etc.) Tile (fireproofing) Tile, facing, terra cotta, floor and	1, 279, 348 300, 609 66, 477		42, 86 10, 07 2, 23	1, 189, 174 267, 892 66, 477	90, 174 32, 717	Metal doors, windows, and trim Metal doors, windows, and trim Ornamental metal work Lumber, rough and finished Lath, shingles and shakes (wood)	65,241 262,772 64,468 202,994	1.1 .3 .8	4.73 1.16 3.66	11,83357,22714,23610,4401,140,887	53,408 205,545 50,232 192,554 131,510
Tile, facing, terra cotta, floor and wall. Concrete and cinder block. Cut stone, granite, and marble Riprap, rubble, etc. Cement.	191, 055 97, 849	1.5 .8 1.0 3.9	16, 31	79, 457 96, 476 78, 769 484, 959 1, 136, 225	111, 598 1, 373 42, 578 2, 000 45, 314	Lumber, rough and finished Lath, shingles and shakes (wood) Millwork Composition board Waterproofing materials Hardware, rough and finished	$\begin{array}{c} 1,272,406\\ 36,151\\ 512,691\\ 65,980\\ 272,864\\ 226,691 \end{array}$	5.1 .1 2.1 .3 1.1 .9	$22.91 \\ .65 \\ 9.23 \\ 1.19 \\ 4.91 \\ 4.08$	505,875 13,032 216,000	6, 816 52, 948

TABLE 9.—COST OF MATERIALS FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929, BY KIND—Continued

	COST	OFP	ATERIA	LS REPORTE	D BY		COST	OF M	ATERIA	LS REPORTE	DBY
· · · · ·	All classe lisht	s of es nents	stab-				All classe lishi	s of ents			
KIND OF MATERIAL	Amount	Per cent dis- tri- bu- tion	Per \$1,000 con- struc- tion work done ¹	General con- tractors ²	Subcon- tractors	KIND OF MATERIAL	Amount	Per cent dis- tri- bu- tion	Per \$1,000 con- struc- tion work done ¹	General con- tractors ²	Subcon- tractors
ST. LOUIS-Continued						ST. LOUIS-Continued					
Distributed by kind—Continued. Paints, varnishes, and glass Roofing and sheet metal Floished flooring, other than cament, wood or tile Screens, shades, awnings, etc Heating and ventilating equip- ment Plumbing and gas fitting equip- nient Elevetrical appliances and sup- plies ⁶ Elevators, dumb-waiters, and equipment Pipe: Drain tile, vitrified, con- crete, segment tile, corrugated	\$400, 500 324, 738 125, 376 18, 828 1, 638, 241 1, 691, 283 2, 709, 201 961, 202 92, 946	.5 .1 6.6 6.8 10,9 3.9	5, 85 2, 26 , 34 29, 50 30, 45 48, 78 17, 31	76, 764 53, 477 11, 178 389, 987 170, 616 1, 366, 869 1, 840	71, 899 7, 650 1, 248, 254 1, 520, 067 1, 342, 332 959, 455	Distributed by kind—Continued. Pipe: Cast-iron, sheet and tube steal, otc. ⁸ Wiro cable, guards, and feucing Bituminous paving materials, tar asphalt and oil Wood piling and timber Ready mixed concrete Machinery Freight, hauling or trucking to job. Metal products, n. e. s. (including metal furniture) Mineral products (nonmetallic) n. e. s Textiles and caulking materials Miscellaneous	7,908	.1 1.0 .7 .4 1.9 (³) .7	52 4, 60 3, 20 1, 80 8, 46 , 14 3, 13 , 86 , 08	13, 327 235, 669 177, 636 57, 633 470, 227 7, 998 142, 527 12, 163 85	15, 636 19, 822 42, 898 31, 351 35, 758 4, 584

¹ The value of construction work done is obtained from figures presented in Table 1, by subtracting the value of subcontract work let from the total value of construction business.
 ³ Includes operative builders.
 ⁴ Less than one-tenth of 1 per cent.
 ⁴ Less than one cent.
 ⁵ The percentage of total cost shown for this item is high because establishments located within this area reported that the major part of their construction work (on which this material was used) was done on contracts outside the home city or State.
 ⁶ The percentage of total cost shown for this item is high because electrical applicances and supplies used in the construction of a street-lighting system are included.

TABLE 10.—COMPARISON OF COST OF DESIGNATED MATERIALS FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929, WITH COST OF MATERIALS AND VALUE OF CONSTRUCTION BUSINESS

[Based exclusively upon reports of establishments which gave the distributed cost of materials]

	1200												
		COST OF D. MAT	ESIGN ERIAL			Indi- cated			COST OF D MAT	ESIGN ERIAL			Indi- cated per
KIND OF MATERIAL AND CLASSI-	Cost of all materials distrib-			cent of	Value of construction	per cent of all busi-	KIND OF MATERIAL AND CLASSI- FICATION OF ESTABLISHMENTS	Cost of all materials distrib-			cent of	Value of construction business	cent of all busi- ness
FICATION OF ESTABLISHMENTS	uted by kind	Amount	Total cost	Cost of all distributed materials	business	ness done by own force 1	FICKHOU OF ESTIMATION	uted by kind	Amount	Total cost	Cost of all distributed materials	DUSINGSS	done by own force
MISSOURI							MISSOURI-Continued						
Sand, gravel, stone, slag, cinders, etc.							Sand, gravel, stone, slag, cinders, etc.—Continued						
All classes					\$116, 236, 674		Subcontractors—Continued. Marble and tiling	\$776, 446	\$78, 724 32, 856	1.9	10.1 37.7	\$1, 987, 259 331, 821	99. 6 94, 9
General contractors ²	³ 27, 217, 719 ³ 12, 121, 540 10, 127, 429 850, 970) 3, 742, 024) 1, 454, 873) 1, 295, 125 65, 476	89.0 34.6 30.8	13.7 12.0 12.8 7.7	4 80, 333, 778 4 45, 054, 038 38, 329, 586 2, 185, 682	71.4 57.2 55.6 75.2	Bridge and culvert Power-plant work Metal work, n. e. s	87, 240 41, 155 659, 474	1,519	(5)	3.7	137, 924	87.7
Residential building only Highway Bridge and culvert Grading	2, 150, 135	1, 060, 237 210, 742	25. 2 5. 0	8.5 49.3 12.2	4, 368, 551 6, 296, 623 5, 517, 266	56.7 91.6 99.4	Brick (face, common, fire, paving, etc.) All classes	42, 595, 500	1, 432, 961	100. (3.4	116, 236, 674	78.8
Street paving Sewer, gas, water, conduit Dam and reservoir	1, 845, 681 698, 710 300, 304 72, 678	628, 420 99, 045 85, 080 3 3, 000	14.9 2.4 2.0	34.0 14.2 28.3 4.1	4, 014, 897 2, 187, 725 520, 748 172, 700	95, 2 100, 0 87, 9 72, 8	General contractors ² Building Building not specialized ² Commercial building only	¹ 27, 217, 719 12, 121, 540 10, 127, 429 850, 979	912, 690 849, 363 682, 469 72, 904	59, 8 47, 6	7.0	38, 329, 580	3 57.2 3 55.6
Railroad Central station, light and power plant Oil and natural gas pipe line.	9, 657 975, 180 1, 752, 849 4, 734, 119) 167,643) 138	4.0 (5)	(⁵)	2, 725, 195 3, 427, 069	97.1 99.4	Manufacturing building only Residential building only Highway Bridge and culvert	2, 150, 135 1, 730, 589	89, 290 19, 270 4, 472	6.	8.0	4, 368, 551 6, 296, 623 5, 517, 260	L 56.7 3 91.6 3 99.4
Subcontractors Carpentering and wood flooring	315, 377, 781 144, 014	464, 721 323 255, 471	(1)		4 35, 902, 896 333, 339 8, 269, 792	97.8	Grading	24, 314 1, 845, 681 698, 710 300, 304	10, 845 10, 435	5.	6 .6 7 1.5	4, 014, 89 2, 187, 72	7 95.2
flooring Concreting Heating and plumbing Heating and plping Pipe covering	377,000	1.000	(5) (8) (5)	(5) (5) (5) (5)	4 11, 263, 525 3, 090, 242	95.9 91.0 93.0	Oil and natural gas pipe line	4, 734, 119	5, 373	3 . 4 1 36. 1	4.1 3.4	4 35, 902, 89	4 86.1 6.96.7
Plumbing and heating combined	538, 823 920, 219	100 63,441	(⁶) 1,5	(⁵)	893, 555 2, 152, 723	99.4 99.8	Heating and plumbing Heating and piping Plumbing and heating combined	1, 680, 278) (ð) 5 (ð)	1	4 11, 263, 52 3, 090, 24 5, 373, 81	2 01.0 5 98.6
Plastering and lathing Roofing and sheet-metal work Roofing Stone work	282, 958 3 1, 178, 00 745, 90 360, 63	3 7, 358 1 5, 564 9 5, 564 0 16, 290	.1	.6	4 2, 681, 151 1, 694, 246	98.7	Masonry Marble and tiling	538, 823 920, 210 776, 446 41, 150	487, 354 13	(5) 4 34. 3 (5) 2.	(⁵) 53. ((⁵) 3 79. 2	893, 55 2, 152, 72 1, 987, 25 137, 92	3 99.8 9 99.6

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TABLE 10.—COMPARISON OF COST OF DESIGNATED MATERIALS FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929, WITH COST OF MATERIALS AND VALUE OF CONSTRUCTION BUSINESS— Continued

[Based exclusively upon reports of establishments which gave the distributed cost of materials]

											-		-
		COST OF I	DESIG TERIA			Indi-			COST OF I	DESIG TERIA			Indicated
KIND OF MATERIAL AND CLASSI- FICATION OF ESTABLISHMENTS	Cost of all materials distrib-		Pe	r cent	Value of construction	per cent of all busi-	KIND OF MATERIAL AND CLASSI- FICATION OF ESTABLISHMENTS	Cost of all materials distrib-			r cent	Value of construction	per cent of all busi-
	uted by kind	Amount	Total cost	Cost of all distributed materials	business	ness done by own force		uted by kind	Amount	Total cost	Cost of all distributed materials	- business	done by own force ¹
MISSOURI-Continued.				-	-		MISSOURI-Continued.					-	
Tile, facing, terra cotta, floor and wall					1		Cement—Continued				l		
All classes			5 100. (0 1.7	\$116, 236, 674	78,8	General contractors—Con. Highway Bridge and culvert	\$2, 150, 135	\$482, 245	15.9	20. 1	\$6, 296, 623	91, 6
General contractors 2	⁸ 27, 217, 719	288, 844	4 39.6		4 80, 333, 778	3 71.4 57,2	Grading	1 24 314	400	(5)	1.6	5,517,266 312,712	99.4 80.8
General contractors ² Building Building not specialized ² Commercial building only Residential building only Oil and natural gas pipe line.	10, 127, 429 10, 127, 429 850, 979 1, 109, 301 4, 734, 119	284, 430 204, 680 40, 580 40, 580 39, 161 4, 400	5 5.6 1 5.4	0 2.0 6 4.8 4 3.5	38, 329, 580 2, 185, 682 4, 368, 551	55.6 2 75.2	Street paving_ Sower, gas, water, conduit_ Dam and reservoir Waterworks Levee Bailroad	1 8,091	28, 237 50, 794 1, 800 7 2, 033	1.0	4. 0 16. 9 2. 6 21. 1	2, 187, 725 520, 748 5172, 700 95, 000	95. 2 100. 0 87. 9 72. 8 83. 0 97. 1
Subcontractors	315, 377, 781		א אר	4 2. §	4 35, 902, 896 3, 269, 792	3 96.7 2 99.5	Railroad Central station, light and power plant	1, 752, 849		1			
Concreting Heating and plumbing Plumbing	8 5, 599, 398 2, 720, 072 920, 219	4, 290 4, 290 4, 290 22, 824) , 2 3 , 6 5 , 6 4 3, 1		4 11, 263, 528 5, 373, 816	5 95,9 5 98,6 3 90,8	Dower plant Oil and natural gas pipe line. Subcontractors		17, 543				
Masonry Roofing and sheet-metal work	. * 1, 178, 001	10 640				98.7	flooring and wood	144.014	254	(5)	1		
Marble and tiling Marble work, n. e. s	. 745, 909 776, 446	10,649 371,502	$ \begin{array}{c} 1.5 \\ 50.6 \\ 4.1 \\ \end{array} $	5 1,4 0 47,8 4,5	1, 694, 246 1, 987, 259	97.9 99.6	Concreting Heating and plumbing Pipe covering	883, 399 3 5, 599, 398 377, 000	225, 116 4, 654 4, 000		25.6 1 1.1 (⁰)	l 11, 263, 525	99. 5 95. 9 93. 0 98. 6
Concrete and cinder block All classes	42 505 500	576, 744	100.0	1.4	116, 236, 674	78.8	Plumbing Plumbing and heating combined	538, 823	54 47, 379	() 1.7	(*) 5, 1 2, 7	893 555	00 4
			97.8	21	1 80 333 778	71.4	Glass and glazing Plastering and lathing	366, 730 282, 958	9, 779 878	.4	2.7	2, 152, 723 812, 125 855, 695	100. 0 98. 5
General contractors ² Building Building not specialized ² . Commercial building only. Manufacturing building		149, 413 122, 425 22, 405	25. 9 21, 2 3. 9	$ \begin{array}{c} 1.2\\ 1.2\\ 1.2\\ 2.6\\ 2.6\end{array} $	45, 054, 038 38, 329, 586 2, 185, 682	57. 2 55. 6 75. 2	combined Masonry	³ 1, 178, 001 745, 909 360, 630	108 108 10, 634	(ð) (ð)	(5) (5) 2, 9	⁴ 2, 681, 151 1, 694, 246 637, 331	98. 7 97. 9
only Residential building only	33, 831 1, 109, 301	863 3,720	.1	2.6	170, 219 4, 368, 551 6, 296, 623	73.4	Marble and tiling Bridge and culvert	776, 446 87, 240	40, 183 3, 375	1.5 .1	5, 2 3, 9	1,987,259 331,821	00, 6 04, 9
Highway Street paving Sewer, gas, water, conduit	E 2, 150, 135	217, 847	$ \begin{array}{c} 1.2 \\ 37.8 \\ 32.9 \\ \end{array} $.3 .3 11.8 27.2	6, 296, 623 4, 014, 897 2, 187, 725	91, 6 95, 2 100, 0	Structural steel	41, 160	1, 002	(5)	2.4	137, 924	87.7
Subcontractors	³ 15, 377, 781	12, 535 646	2.2		1 35 902 896	96.7	All classes	42, 595, 500	2, 448, 905	100, 0	5. 7	116, 236, 674	78.8
Masonry Power-plant work	920, 219 41, 155	10,010	1.8	1 1	3, 269, 792 2, 152, 723 137, 924	99.8 87.7	General contractors ² Building Building not specialized ² Commercial building only. Residential building only. Highway Bridge and culvert Grading Street paving Street paving Street paving Dredging, river, harbor, etc Railroad	³ 27, 217, 719 ³ 12, 121, 540 10, 127, 420	1,731,408 1,118,292 1,059,610	70, 7 45, 7 43, 3	6.4 9.2	4 80, 333, 778 4 45, 054, 038 38, 320, 586 2, 185, 082 4, 308, 551 6, 296, 623 5, 517, 268	71, 4 57, 2 55, 6
Cut stone, granite and marble							Commercial building only. Residential building only.	850, 979 1, 109, 301	26, 976 31, 700	1.1	3, 2 2, 9	2, 185, 682 4, 368, 551	75. 2 56. 7
All classes			100. 0	2.6	116, 236, 674	78.8	Highway Bridge and culvert	2, 150, 135 1, 730, 589	61, 149 416, 605	2, 5 17, 0	2.8 24.1	0,017,200	91. 6 99. 4
General contractors ² Building not specialized ² - Commercial building only- Residential building only- Higbword	³ 27, 217, 719 ³ 12, 121, 540	538, 843 355, 564	49.5 32.7	2, 0 2, 9	4 80, 333, 778 4 45, 054, 038	71, 4 57, 2	Street paving Sewer, gas, water, conduit	1, 845, 681 698, 710	6, 872 6, 918	.3	5.3 .4 1.0	4. 014. 897	80, 8 95, 2 100, 0
Building not specialized ² . Commercial building only.	10, 127, 420 850, 979	538, 843 355, 564 272, 251 35, 350 47, 963	25. 0 3. 2	2.7 4.2	45,054,038 38,320,586 2,185,082 4,368,551 6,296,623	55, 6 75, 2	Waterworks Dredging, river, harbor, etc	72, 678 777, 358	6, 918 600 6, 400 92, 964	(⁵) 3	.8	172, 700 2, 129, 323	93. 3
Residential building only_ Highway Bridge and culvert			나봐	• 71	4,368,551 6,296,623	56.7 91.6	Railroad Oil and natural gas pipe line.	975, 180 4, 734, 119	92, 964 20, 308	3.8 .8	9.5 .4	2, 725, 195	97. 1 86. 1
Bridge and culvert Street paving	1, 730, 589 1, 845, 681	9, 000 159, 593	. 8 14. 6	.0	0,017,200		Subcontractors Concreting Elevator construction	15, 377, 781 883, 399	717, 497	29. 3 . 6	4.7 1.8	⁴ 35, 902, 896 3, 269, 792	96, 7 99, 5
Subcontractors	315, 377, 781 360, 630	548, 896 308, 458	28.4	3.6 85.5	4 35, 902, 896 637, 331		Elevator construction	1, 012, 129 920, 219	15, 909 23, 159 908	(5) [2.3	1 011 000	100.0 99.8
Stone work Marble and tiling Power-plant work	776,446 41,155	240, 331	22.1	31. 0 . 3	$\substack{1,987,259\\137,924}$	99.6 87.7	Masonry	593, 188 87, 240	513.109	21.0 (*) 1	86.5 1.3	2, 152, 723 1, 325, 998 331, 821 137, 924 1, 196, 209	75, 8 94, 9
Riprap, rubble, etc.						·	Power plant work Motal work, n. e. s	41, 155 659, 474	2,232 161,085	6.6	5.4 24.4	137, 924 1, 196, 209	87.7 100.0
All classes	42, 595, 500	668, 986	100. 0		116, 236, 674	78.8	Reinforcing steel		· .	-			
General contractors ²	³ 27, 217, 719 ³ 12, 121, 540	$ \begin{array}{r} 642, 959 \\ 28, 482 \end{array} $	$96.1 \\ 4.2$	2, 4	4 80, 333, 778 4 45, 054, 038	71.4 57.2	All classes			<u> </u>	4.8	116, 236, 674	78.8
Building Building not specialized ² . Commercial building only.	850, 979	28, 482 24, 280 432	. 1	.2 .2 .1 .3		55.6 75.2 56.7	General contractors ² Building Building not specialized ² Commercial building only. Residential building only.	27, 217, 719 12, 121, 540	1, 675, 173 1, 049, 245	82.6 51.7	6, 2 8, 7	4 80, 333, 778 4 45, 054, 038	71.4 57.2
Residential building only. Highway Bridge and culvert	1, 100, 301 2, 150, 135 1, 730, 589	3,770 21,380 227,804	. 6 3. 2 34, 1	1.0	4, 368, 551 6, 296, 623 5, 517, 266	56.7 91.6 99.4	Commercial building only.	10, 127, 429	888, 490 79, 115 81, 640	43.8 3.9 4.0	8, 8 9, 3	38, 320, 586	55. 6 75. 2
SEFERE DEVIDE	1, 730, 589 1, 845, 681 72, 678	£6, 900)	8, 5	13.2 3.1 2.8 26.5	4,014,897	95. 2 72. 8	Highway	2, 150, 135 1, 730, 589		11.8 4.7	11.2	6, 296, 623 5, 517, 266	56.7 91.6 99.4
Waterworks Dredging, river, harbor, etc. Railroad	777, 358 975, 180	2,000 205,682 100,711	. 3 30. 7 15. 1	26.5 10.3	2, 129, 323 2, 725, 195	93.3 97.1	Grading Street paving	24,314 1.845.681	95, 730 1, 818 53, 989 64, 734	$\frac{1}{2.7}$	7.4 11.2 5.5 7.5 2.9	312, 712 4, 014, 897	80. 8 95. 2
Subcontractors	\$15, 377, 781	26, 027	3.9		4 35, 902, 896 3, 269, 792	96.7	Sewer, gas, water, conduit Dam and reservoir	300, 304	64, 734 69, 305	3 2	9. 3 23. 1	2, 187, 725 520, 748	100. 0 87. 9
Concreting Stone work	883, 399 360, 630	2, 000 24, 027	. 3 3. 6	6.7	3,269,792 637,331	99.5 100.0	Waterworks	72,678	450 310	3.4 (4) (5)	.6 3,2	172, 700 95, 000	72, 8 83, 0
Cement	er a		1.1				Residential building only Highway Grading Street paving Sweer, gas, water, conduit Dam and reservoir Waterworks Levce Raifroad Oil and natural gas pipe line.	975, 180 4, 734, 119	98, 830 602	4.9 (5)	10, 1 (*)	$\begin{array}{c} + 80, 333, 778 \\ + 45, 054, 038 \\ 38, 320, 586 \\ 2, 185, 682 \\ + 308, 551 \\ 6, 206, 623 \\ 6, 517, 266 \\ - 312, 712 \\ + , 014, 807 \\ 2, 187, 726 \\ - 520, 748 \\ - 172, 700 \\ - 05, 000 \\ 2, 725, 196 \\ 7, 704, 704 \\ \end{array}$	97. 1 86. 1
All classes					116, 236, 674	78.8	Subcontractors	15,377,781 883, 399	353, 289 183, 754 80, 979	17, 4 9, 1	2, 3 20, 8	4 35, 902, 896 3, 269, 792	96. 7 99. 5
General contractors ²	³ 27, 217, 719 ⁵ 12, 121, 540 10, 127, 429 850, 979 1, 109, 301	2, 379, 150 1, 218, 662 1, 101, 602 37, 707 79, 353	87.4 44.8 40.5 1.4 2.9	8.7 10.1 10.9 4.4 7.2	4 80, 333, 778 4 45, 054, 038 38, 329, 586 2, 185, 682 4, 368, 551	71.4 57.2 55.6 75.2 56.7	Subcontractors Concreting Masonry Plastering and lathing Steel erection Excavating Bridge and culvert	920, 219 282, 958 593, 188 10, 500 87, 240	80, 979 60, 000 2, 000 2, 000 24, 556	4.0 3.0 .1 .1 1,2	8.8 21.2 .3 19.0 28.1	4 35, 902, 896 3, 269, 792 2, 152, 723 855, 695 1, 325, 998 250, 000 331, 821	99.8 98.5 75.8 94.8 94.9
See footnotes at end of table		,	-, ol						, 000			,	v -• v
197100 99	45						· • • • • • • • • • • • • • • • • • • •						

127100-33--45

TABLE 10.—COMPARISON OF COST OF DESIGNATED MATERIALS FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929, WITH COST OF MATERIALS AND VALUE OF CONSTRUCTION BUSINESS— Continued

[Based exclusively upon reports of establishments which gave the distributed cost of materials]

		COST OF D MAT	ESIGN ERIAL	ATED		Indi- cated	· ·		COST OF DI MATI				Indi- cated
KIND OF MATERIAL AND CLASSI- FICATION OF ESTABLISHMENTS	Cost of all materials distrib-		Per of	cent	Value of	per cent of all busi- ness	KIND OF MATERIAL AND CLASSI- FICATION OF ESTABLISHMENTS	Cost of all materials distrib- uted by		of	ľ	Value of construction business	per cent of all busi- ness
FIGHTION OF ESTABLISHING	uted by kind	Amount	Total cost	Cost of all distributed materials	business	done by own force 1		kind	Amount	Total cost	Cost of all distributed materials		dons by own force ¹
MISSOURI-Continued							MISSOURI-Continued				•		
Lumber, rough and finished							Paints, varnishes, glass— Continued						
All classes			100, 0	7.3	\$116, 236, 674	78.8	Subcontractors—Continued. Roofing and sheet-metal		100.000			#0 401 151	98.7
General contractors ²	³ 27, 217, 719 12, 121, 540	2,840,984	92.0 62.7	10, 4 16, 0	45, 054, 038	57.2	work Roofing Sheet-metal work	\$1, 178, 001 745, 909 319, 092	20,652	2.6	1.9 2.8 (*)	\$2, 681, 151 1, 694, 246 773, 905	97.9
Commercial building	. 000,010	1, 623, 565 92, 007	3.0	10.8	2, 185, 682	75.2	work	113,000	1, 500	. 2	1. 3 . 5	213, 000 1, 325, 998	100.0 75,8
Manufacturing building only	33, 831 1, 109, 301 2, 150, 138	213, 100	6.9		170, 219 4, 368, 551 6, 296, 623	56.7	Marble and tiling Power plant work	593, 188 776, 440 41, 155	238 173	(5)	(⁵)	1, 987, 259 137, 924	99.6 87.7
Bridge and culvert	1, 730, 589	271,924	1 8.8 1 (⁶)	15.7	5, 517, 260 312, 712	99.4 80.8	Metal work, n. e. s	659, 474	3,000	.4			
Street paving Sewer, gas, water, conduit	1, 845, 681 698, 710 300, 304	18,117	71.6	2.6	2, 187, 725	100. 0 87. 9	All classes		1, 280, 978			116, 236, 674 4 80, 333, 778	78.8
Dam and reservoir Waterworks Dredging, river, harbor, etc Levee Railroad Oil and natural gas pipeline	72,678	8 880 8 190, 755) (0) 21 6.2	1.2 24.5	172,700 2,129,323	93, 3	General contractors ² Building Building not specialized ²	³ 27, 217, 71 12, 121, 540 10, 127, 429) 184,997 1 143 449	14.4	1.4	45, 054, 038 38, 329, 580	57.2 55.6
Railroad Oil and natural gas pipe line	9, 657 975, 180 4, 734, 119) 291, 478	3 0 4	29.9	2, 725, 195	97.1 86.1	Manufacturing building	800, 971	12,030		1.4 10.3	170. 219	73.4
Subcontractors	3 15. 377. 78			1,6		1	only Residential building only Highway	1,109,30 2,150,13	1 26, 037 5 246	2.0 (⁵)	2.3 (⁵)	4, 368, 551 6, 296, 623	56.7
Carpentering and wood flooring	- 144, 014	N CO 55	8 2.6	10.1	3, 269, 793	9 97.8 2 99.5 100.0	Bridge and culvert. Railroad Oil and natural gas pipe line.	1,730,58) 38,900) 23,922	1.9	2.5	2, 725, 198 7, 704, 704	97.1 86.1
Concreting Electrical Elevator construction Heating and plumbing Pipe covering Plumbing	1, 925, 90 1, 012, 12 5, 599, 390	2 5 9 4,31 8 1,03	1 1.1 5 (5)	(^b) (^b)	4, 712, 550 1, 611, 800 4 11, 263, 523 1, 216, 000 5, 373, 814 2, 152, 723 855, 694	0 100.0 5 95.9	Subcoptractors		1 1, 019, 586				
Pipe covering Plumbing	- 377, 00 - 2, 720, 07	0 1,00 2 3 9 21,66	5 (5)	(5)	1, 216, 000 5, 373, 810 2, 152, 72	0 93.0 5 98.6 3 99.8	Carpentering and wood flooring Heating and plumping	144, 01	1 154 6, 522		.1	333, 33 + 11, 263, 52	5 95.9
			5 .1				I Treating and nining	1 1 880, 27	5, 922 2 600].8	(5)	3, 090, 24 5, 373, 81	2 91,0 5 98,6
Plastering and lathing Roofing and sheet-metal work Marble and tiling Bridge and culvert. Prower plant work Metal work, n. e. 8.	- 3 1, 178, 00 - 745, 90 776 44	1 1,67 9 1,67 6 30	A) 1	1 1	4 2, 681, 15 1, 694, 240 1, 987, 250 250, 000 331, 82 137, 92	1 98.7 5 97.9 9 99.6	Plumbing Roofing and sheet-metal work Roofing	1, 178, 00 745, 90 319, 09	1 1, 012, 028 9 629, 603	79. 0 49, 2	2 84.4	1, 694, 24	6 97.9
Excavating Bridge and culvert	- 10, 50 - 87, 24	0 1,50 0 20,56	0 (*) 9 .:	14. 3 23. 0	250, 00 331, 82	0 94.8 1 94.9	Sheet-metal work Roofing and sheet metal combined					213.00	0 100.0
Power plant work Metal work, n. e. s	41, 15	5 52 4 42,07	8 (*) 9 1.4	1, 8 6, 4	1, 196, 20	4 87.7 9 100.0	Power plant work Heating and ventilating						4 87.7
Millwork			100		110 020 07	4 78, 8	All classes	42, 595, 50	0 2, 626, 540	100. (0 6.2	116, 236, 67	4 78.8
All classes			_		116, 236, 67 80, 333, 77		General contractors ²		9 462, 92	17.	B 1.7	4 80, 333, 77	8 71.4
General contractors ² Building Building not specialized ² . Commercial building only	12, 121, 54 10, 127, 42	0 1,001,60	9 98. 0 75.	6 8. 6 7.	7 4 80, 333, 77 3 4 45, 054, 03 3 38, 329, 58 7 2, 185, 68 9 4, 368, 55 2 7, 704, 70	8 57.2 6 55.6 2 75.2	Building Building not specialized ² Commercial building only	850, 97	9 243 87	51 9.1	B 2,4 1 3,5	38, 329, 58 2, 185, 68	6 55.0 2 75.2
Commercial building only Residential building only Oil and natural gas pipe line	- 1,100,30	1 1/0,40	10 11	4 15. 8	4, 368, 55 2 7, 704, 70	1 56.7 4 86.1	Sewer, gas, water, conduit	- 1, 108, 30	1 17, 17	2	7 1, l 7 2, l		1 50. 5 100. (
Subcontractors	315 377 78		[7 (8)	4 35, 902, 89	6 96.7	Central station, light and power plant Oil and natural gas pipe line	_] 1,752,84		8 4. 5 1.			
Carpentering and wood flooring Metal work, n. e. s		4 1, 81 4 5, 00	.6	2 1. 5		9 97.8 9 100.0	Subcontractors.	- 15, 377, 78	31 2, 163, 61	1	4 14. :	1 4 35, 902, 89	96, ⁹ 6,
Paints, varnishes, glass							fooring Heating and plumbing Pipe covering Pipe covering	144, 01 3 5, 599, 39	4 5, 16 8 2, 120, 97	5 80.	2 3. (8 37.	0 + 11, 263, 52	25 95.
All classes					8 116, 236, 67		Heating and piping Pipe covering Plumbing	$ \begin{array}{c c} 1,680,27\\ 377,00\\ 2,720,07\\ \end{array} $	28 1, 411, 31 0 13, 70 2 438, 65	3 53. D . 5 16.	5 3.(8 1, 216, 00	0 93. 5 98.
General contractors ² Building Building not specialized	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	19 105, 97 10 97, 49 29 69, 48 79 11, 06	0 13, 0 12, 35 8,	5 4 9	4 4 80, 333, 77 8 45, 054, 03 7 38, 329, 58 3 2, 185, 68	8 57.2 6 55.6	Plumbing and heating combined						
Commercial building only Manufacturing building	7-1 850, 97 3	1	1				Automatic temperature control Roofing and sheet-metal work	- 30,7					
only Residential building only Highway	-2, 160, 17	11 2, 00 2, 00 14, 94 14, 94 15 20 20 20 20 20 20 20 2	16 1.	(5)	3 4, 368, 55 6, 296, 62	1 56.7 3 91.6	Roofing Sheet-metal work	3 1, 178, 0 745, 9)1 37, 47)9 10, 00		4 1.	2 4 2, 681, 1 3 1, 694, 2 6 773, 9	16 97.
Bridge and culvert	1, 730, 58 1, 845, 68	39 59 31 29	30 (3)	(5) 1 (6) (8)	9 170, 21 3 4, 368, 55 6, 296, 62 5, 517, 26 4, 014, 89 2 2, 725, 19 1 7, 704, 70	6 99.4 7 95.2 5 97.1	Plumbing and gas fitting		92 27, 47	6 1.	U 0.	1,0,0	100
Railroad Oil and natural gas pipe lin		19 5,26					equipment All classes	42, 595, 5			0 7.	5 116, 236, 6	74 78.
Subcontractors Oarpentering and wood flooring	1 14/0	1 1			4 + 35, 902, 89 8		General contractors 2	3 27, 217, 7 3 12, 121, 5	19 296,00 40 151,22	0 9. 4 4.	3 1. 7 1.	1 4 80, 333, 7 2 4 45, 054, 0	78 71. 38 57.
Electrical Heating and plumbing	1, 925, 90 3, 5, 599, 39)2 5, 8)8	59 75 (⁸)	7 Ω	8 333, 33 3 4, 712, 53 4 11, 263, 52 5, 373, 81	0 100.0	Building Building not specialized Commercial building only Residential building only		29 101, 76 79 37, 46 01 12 00	3 3. 1 1.	2 1. 2 4. 4 1.	0 88, 329, 5 4 2, 185, 6 1 4, 368, 5	86 55. 82 75. 51 56.
Plumbing Plumbing and heatin combined	2,120,0						Highway	2, 150, 1	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	00 (0) 87	1	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	23 91. 25 100. 72
Painting and decorating Glass and glazing	359, 8	28 31 316, 8 30 324, 8	29 40. 03 41.	5 88. 5 88.	893, 55 0 1, 845, 70 6 812, 12	1 99.6 5 100.0	Waterworks Oil and natural gas pipe line	- 72,6 e 4.734,1	78 9, 11 19 130, 01	1 4	3 12. 1 2.	5 172,7 7 7,704,7	00 72. 08 86,
See footnotes at end of tabl											1.1		

TABLE 10.—COMPARISON OF COST OF DESIGNATED MATERIALS FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929, WITH COST OF MATERIALS AND VALUE OF CONSTRUCTION BUSINESS— Continued

[Based exclusively upon reports of establishments which gave the distributed cost of materials]

		COST OF I MAT	DESIG FERIA			Indi- cated			COST OF E	ESIG			Indi- cated
RIND OF MATERIAL AND CLASSI- FICATION OF ESTABLISHMENTS	Cost of all materials distrib-		Per	cent	Value of	per cent of all busi-	RIND OF MATERIAL AND CLASSI FICATION OF ESTABLISHMENTS	- CLOCKED-		Per	r cent	Value of construction	per cent of all
	uted by kind	Amount	Total cost	Cost of all distributed materials	busines	done by own force		uted by kind	Amount	Total cost	Cost of all distributed materials	business	ness done by own force ^t
MISSOURI-Continued			-				MISSOURI-Continued	-					
Plumbing and gas litting equipment—Continued							Wood piling and timber All classes	7 \$49 505 500	\$540, 916	100.0	1 0	⁸ \$116,236,674	
Subcontractors	252, 492	2 252, 492	7.9	100. 0	893, 558 564, 819	5 98.6 5 99.4 9 97.9	General contractors. Building	3 20,322,586 11,226,407 9,232,296 1,730,589 777,358 975,180	510, 916 6, 000 6, 000 169, 535 317, 175	04. 5 1. 1 1. 1 31. 3 58. 0 1. 0	1.9 .1 .1 9.8 40.8 .6	4 76, 444, 377 4 41, 164, 637 34, 440, 185 5, 517, 266 2, 129, 323 2, 725, 195	72, 4 56, 9 54, 9 99, 4 93, 3 97, 1
work Sheet-metal work	³ 1, 178, 001 319, 092	250 250	(⁶) (⁶)	(⁵) .1	4 2, 681, 151 773, 905	98.7 100.0	Subcontractors Railroad	3 15,377, 781 30,000	30, 000 30, 000	5. E 5. E		4 35, 902, 890 250, 000	96. 7
Electrical appliances and supplies							KANSAS CITY						
All classes	42, 595, 500	3, 570, 660	100. 0	8.4	110, 236, 074	78.8	Sand, gravel, stone, slag, cinders, etc.						
General contractors ² Building Building not specialized ² . Commercial building only. Residential building only. Street paving Sewer, gas, water, conduit Waterworks Levee Railroad Central station, light and power plant Of and natural gas pipe line.	$\begin{array}{c} 10, 127, 429\\ 850, 979\\ 1, 100, 301\\ 1, 845, 681\\ 698, 710\\ 72, 678\\ 9, 657\\ 975, 180\end{array}$	113,93026,83725,8372,56721,7545007282,738	4.7 3.2 .8 .7 .1 .0 (⁵) .1 .1 .1 .1 .1 .32.3	5.7 1.4 1.1 3.2 2.3 1 3.1 3.1 7.5 .3 65.7 4.1	38, 329, 586 2, 185, 682 4, 368, 551 4, 014, 897 2, 187, 725 172, 700	57. 2 55. 6 75. 2 56. 7 95. 2 100. 0 72. 8 83. 0 97. 1	All classes General contractors ² Building not specialized ² . Commercial building only Residential building only. Highway. Bridge and culvert Grading Street paving. Sewer, gas, water, conduit Dam and reservoir	³ 8, 430, 350 ³ 4, 345, 146 3, 409, 404 471, 413 370, 408 806, 985 1, 117, 851 23, 114 148, 440	1, 270, 348 1, 180, 174 448, 529 413, 023 16, 714 18, 702 315, 193 85, 985 17, 760 65, 000 3, 840 85, 080	93. C 35. 1 32. 3 1. 3		33, 210, 410 4 22, 661, 135 4 12, 655, 408 10, 153, 070 1, 100, 202 2, 902, 822 2, 902, 024 2, 902, 040 274, 712 310, 800 546, 775 520, 748 2, 054, 531	·
Subcontractors	1,925,992	1, 909, 821 17, 010 33, 316 32, 816 500	56. 8 53. 5 . 9 . 9 (⁴) 1. 2 . 7	1.71	 4 35, 902, 896 4, 712, 530 I, 011, 809 4 11, 203, 525 5, 373, 815 803, 555 1, 845, 701 1, 196, 209 	100, 0 95, 9 98, 6 99, 4 99, 6	Rairoad Central station, light and power plant Subcontractors Concreting Heating and plumbing Heating and plping Plumbing	953, 362 8, 138 4, 130, 498 183, 212 1, 924, 951 321, 985 779, 418	138 90, 174 20, 155	13. 1 (³) 7. 0 1. 6 (⁵) (⁵) (⁶) (⁶)	1.7	2, 054, 531 80, 000 10, 549, 284 1, 151, 200 4, 187, 962 029, 134 1, 437, 544 576, 978	100. 0 96. 3
Elevators, dumb-waiters and equipment	,				.,,		Plastering and lathing Roofing and sheet-metal work	³ 520, 914	1, 534	, 1	. 3	4 1, 094, 206	99.8
All classes	42, 595, 500	1, 240, 582 1	100. 0	2. 9	116, 236, 674	78.8	Roofing Marble and tiling Bridge and culvert Power-plant work	349, 369 210, 938 87, 240	1,534 28,153 32,856	$ \begin{array}{c} 1 \\ 2, 2 \\ 2, 6 \end{array} $	13.3 37.7	331, 821	94.9
Building not specialized ² . Building not specialized ² . Commercial building only.	³ 27, 217, 719 ³ 12, 121, 540 10, 127, 429 850, 979	281, 127 281, 127 279, 927 1, 200	22.7	1.0 2.3 2.8 .1	4 80, 333, 778 4 45, 054, 038 38, 320, 586 2, 185, 682	71. 4 57. 2 55. 6 75. 2	Power-plant work Brick (face, common, fire, paving, etc.) All classes	41, 155 12, 569, 848	1, 519 300, 609 1	. 1	3. 7 2. 4	137, 924 33, 210, 419	87. 7
3 Electrical Elevator construction Ornamental iron	15, 377, 781 1, 925, 992 1, 012, 129 130, 852	959, 455 9, 762 936, 020 13, 673		6.2 92.5 10.4	1, 611, 809	96.7 100.0 100.0 99.1	General contractors ² Building Building not specialized ² . Commercial building only.	³ 8,439, 350 4, 345, 146 3, 469, 404 471, 413	207, 892 227, 225 148, 164	89.1		4 22,661, 135 12, 655, 498 10, 153, 070 1, 190, 202	1.1
Pipe: Cast-iron, sheet and tube steel, ctc. [§] All classes ⁷	42,595, 500	4, 026, 989 1	00. 0	9, 5 ⁸	116,236, 674	78.8	Manufacturing building only. Residential building only. Highway. Grading.	33, 831 370, 498 866, 985 23, 114	81,435 1	1, 6 10, 5 6, 3 . 3	13. 9 8. 5 2. 2 4. 0	170, 219 1, 142, 007 2, 028, 822	73.4 65.8 92.9 100.0
Building not specialized	26,322,586 11,226,407 9,232,296 1,109,301 2,150,135	5, 486 3, 486	97.5 .1 .1 (⁵) .3	14.9 4 (5) 4 (6) .2 .5	76, 444, 377 41, 164, 637 34, 440, 185 4, 368, 551 6, 296, 623	72. 4 56. 9 54. 9 56. 7 91. 6	Grading	148, 440 195, 849 300, 304 8, 138	4,000	2.8 6 1.3 2.7	4.7 1.0 1.3 98.3	546, 775 520, 748	99.8 100.0 87.9
Bridge and culvert Street paving Sower, gas, water, conduit Dann and reservoir Waterworks Levee Railroad Central station, light and Dower Dant.	$1,730,589\\1,845,681\\698,710\\300,304\\72,678\\9,657\\975,180$	800 8, 243 7, 854 6, 700 31, 480 46 8, 084 379, 734	(*) 2 2 2 2 8 (*) 2 9,4	(⁵) . 4 1. 1 2. 2 43. 3 . 5 . 8 21. 7	5, 517, 266 4, 014, 897 2, 187, 725 520, 748 172, 700 95, 000 2, 725, 195 3, 427, 069	99. 4 95. 2 100. 0 87. 9 72. 8 83. 0 97. 1 99. 4	Subcontractors	\$ 4,130, 498 \$ 1,924, 051 321, 985 779, 418 210, 938 41, 155	32, 717 1 125 (100 (25 (0.9 ⁵⁾ ⁵⁾ ⁵⁾	.8 4	10,549, 284 4 4,187, 962 629, 134 1, 437, 544 566, 673	96. 3 95. 4 90, 7 98, 1 100. 0 87. 7
Uil and natural gas pipe line. becontractors	15,377, 781 5, 599, 398 1, 680, 278	99, 202 88, 262 64, 708	2.5 2.2 1.6	3. 9	35, 902, 896 11, 263, 525 3, 090, 242	91.0	All classes General contractors ² Building	12, 569, 848 ³ 8,439, 350 ³ 4,345, 146	191, 055 10 79, 457 4 79, 457 4	1.6		22,661, 135 12,655, 498	86. 3 82. 1 72. 2
Plumbing and heating combined Steel erection Metal work, n. e. s	2, 720, 072 538, 823 593, 188 659, 474	10, 554 13, 000 940 10, 000	. 8 . 3 (*) . 2	.4 2.4 .2 1.5	893, 555 1, 325, 998	98. 6 99. 4 75. 8 00. 0	Building not specialized ² Commercial building only - Subcontractors	3, 409, 404 471, 413 4, 130, 498 210, 938	52, 408 2 27, 049 1 111, 598 5 111, 598 5		5.7	1, 190, 202	73.0 69.3 96.3

TABLE 10.—COMPARISON OF COST OF DESIGNATED MATERIALS FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929, WITH COST OF MATERIALS AND VALUE OF CONSTRUCTION BUSINESS— Continued

[Based exclusively upon reports of establishments which gave the distributed cost of materials]

		COST OF DI MATI	ESIGN. ERIAL	ATED		Indi-			COST OF D MAT	ESIGN			Indi- cated
KIND OF MATERIAL AND CLASSI- FICATION OF ESTABLISHMENTS	Cost of all materials distrib- uted by		Per		Value of construction business	cated per cent of all busi- ness	KIND OF MATERIAL AND CLASSI- FICATION OF ESTABLISHMENTS	Cost of all materials distrib- uted by				Value of construction business	per cent of all busi- ness
	kind	Amount	Total cost	Cost of all distributed materials		done by own force 1		kind	Amount	Total cost	Cost of all distributed materials		done by own force ¹
KANSAS CITY-Continued							KANSAS CITY—Continued						
Riprap, rubble, etc.							Lumber, rough and finished		_				
All classes		· ·		3.9			All classes	\$12, 569, 848	\$1, 382, 841	100. (11.0	\$33, 210, 419	86.3
General contractors ² Building not specialized ² Commercial building only. Residential building only. High way Thigh way	3, 469, 404 3, 469, 404 471, 413 370, 498 866, 984	5,500 7,589 432 545	1.8 1.6 .1 .1	.2	1, 142, 007 2, 028, 822	72, 2 73, 0 69, 3 65, 8 92, 9	General contractors ² Building Building not specialized ² Commercial building only Manufacturing building only	- 4, 345, 140 - 3, 469, 404 - 471, 413	568, 283 568, 283 55, 878	41.	15.9 1 16.4 0 11.9 1 18.3	12, 655, 498 10, 153, 070 1, 190, 202 170, 219	72.2 73.0 69.3 73.4
Bridge and culvert Dredging, river, harbor, etc Railroad	442, 968 953, 365	100, 711	2 31, 1 20, 7	10.6	954, 323 2, 054, 531	100. 0 97. 8	only Residential building only Highway Bridge and culvert	- 370, 498 - 866, 985 - 1, 117, 851 - 23, 114 - 148, 440	62, 152 7, 852 161, 528	2 .	6 .9 7 14.4	2, 028, 822 2, 991, 049	21 92.9
Subcontractors Concreting	4,130, 400 183, 21	3 2,000 2 2,000) .4) .4	(*) 1.1	4 10,549,284 1, 151,209	96.3 100.0	Kesidentiai building only Highway Bridge and culvert Street paving Sewer, gas, water, conduit Dam and reservoir Dredging, river, harbor, etc Railroad	148, 440 195, 849 300, 30	4 26,400		$\begin{array}{cccc} 4 & 3.6 \\ 4 & 3.1 \\ 9 & 8.8 \end{array}$	310, 899 546, 778 520, 748	99.8 100.0 8 87.9
All classes			100. 0	9, 4		86.3	Dredging, river, harbor, etc Railroad	442, 951 953, 36	2 291,478	2 7. 5 21.	$ \begin{array}{ccc} 9 & 24.8 \\ 1 & 30.6 \end{array} $	954, 32; 2, 054, 53	3 100.0 97.8
General contractors ² Building	3 8,439, 35 4,345, 14 3,469,40 471,41 370,49 866, 98	5 210 05	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c} 11.0 \\ 12.9 \\ 7.0 \\ 5.7 \\ $	+ 12,655,498 10,153,070 1,190,209 1,142,007 2,028,829	72. 2 73. 0 69. 3 65. 8	Subcontractors Concreting Electrical Heating and plumbing Plumbing and lathing Plastering and lathing Roofing and sheet-metal work Roofing	4, 130, 49 183, 21 463, 97 3 1, 924, 95 779, 41 215, 60	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5 4. 0 (5) 5 (5) 5 (5)	2 31 F	1, 151, 20 1, 010, 91 4, 187, 96 1, 437, 54	0 100.0 1 100.0 2 95.4
Residential building only. Highway Bridge and culvert Street paving Sower, gas, water, conduit Dam and reservoir Railroad	1, 117, 85 148, 44 195, 84 300, 30 953, 36	0 25,00 9 7,50 4 50,79 2 113,64	$ \begin{bmatrix} 2.1 \\ 0 \\ 4 \\ 4.3 \\ 1 \\ 9.6 \end{bmatrix} $	$ \begin{bmatrix} 16.8 \\ 3.8 \\ 3.16.9 \\ 5.11.9 $	310, 899 546, 775 520, 748 2, 054, 531	99. 8 100. 0 87. 9 97. 8	Roofing and sheet-metal work Roofing Marble and tiling Bridge and culvert Power plant work	210.93	8 30 0 20,56	2 (⁵) 2 (⁵) 0 (⁵) 9 1.	(5) (5) 5 23.0	4 1, 094, 20 693, 39 566, 67 3 331, S2	6 99.8 8 99.7 3 100.0 1 94.9
Subcontractors Concreting Heating and plumbing Plastering and lathing Roofing and sheet-metal work Boofing	- 3 4,130,49 - 183,21 - 3 1,924,95 - 779,41 - 215,60	$egin{array}{cccc} 8 & 45, 31 \\ 2 & 23, 46 \\ 1 & 10 \\ 8 & 10 \\ 2 & 87 \end{array}$	() () (5	$\begin{bmatrix} 12, 8\\ (5) \end{bmatrix}$	1, 151, 20 4 4, 187, 96 1, 437, 54	2 100.0 2 95.4 4 98.1	Millwork			1 100.	0 2.4	5 10 33, 210, 41	9 86.3
Marble and tiling	- 210, 93 - 87, 24	8 16,47 0 3,37	5 (⁵) 5 (⁵) 2 1.	(5) (5) 4 7. 3 3.	4 1, 094, 20 693, 39 566, 67 331, 82	6 99.8 99.7 8 100.0	Commercial building only	³ 8, 439, 35 ³ 4, 345, 14 ³ , 469, 40 y_ 471, 41 7- 370, 49	0 312, 36 6 312, 36 4 228, 74 3 21, 75 8 61, 85	1 100. 9 73.	2 6. 0 4.	[1, 190, 20]	0 73.0
Siructural steel						1	Composition board						
All classes			7 78	4 6.	4 4 22, 661, 13	5 82.1	All classes			-			
General contractors ² Building	- 3 4, 345, 14 3, 469, 40 - 471, 41 - 370, 49 866, 95	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3 17. 7 15. 6 2.	9 2. 7 3. 0 3.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	8 72.2 0 73.0 2 69.3 7 65.8 2 92.9	Building not specialized ² Building not specialized ² Residential building only	- 010, ±0	10,00	5 9. 1 4. 14 5	6 5 1 5.	8 4 12, 655, 49 5 10, 153, 07)8 72.2 70 73.0)7 65.8
Bridge and cuivert. Grading Sewer, gas, water, conduit. Railroad	23, 11 23, 11 195, 84 953, 30	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	10 46, 10 . .8 .	4 28, 2 5. 3 1.	8 2, 991, 04 6 274, 71 1 546, 77	9 100.0 2 100.0 5 100.0	Subcontractors Heating and plumbing Pipe covering Booting_and Sheet-meta	i- 1	14 2, 67	00 89 00 89 76	. 6 17. . 6 100. . 7	5 4, 187, 90 0 1, 092, 00 5 4 1, 094, 20	32 95.4 00 92.2 06 99.8
Subcontractors Concreting Steel creetion Bridge and culvert Power plant	3 4, 130, 44 183, 2 144, 7 87, 2	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	- 01	6 3. 0 7. 2 91. 2 1. 3 5.	5 1, 151, 20 9 277, 59 3 331, 82	$\begin{bmatrix} 8 & 100.0 \\ 1 & 94.9 \end{bmatrix}$	Marble and tiling Hardware, rough and	349, 30 210, 91	80 2, 61 38 1	76 50 (*	,7 (3)	566, 6	73 100.0
Reinforcing steel			20100	0 6.	3 33, 210, 41	9 86.3	All classes		_				
All classes General contractors ³ Building Boilding not specialized ² Gommercial building only			17 86. 05 54.	3 8. 7 9.	0 4 22, 661, 13 9 4 12, 655, 49 6 10 153 07	5 82.1 8 72.2 0 73 0	General contractors ² Building Building not specialized Commercial building onl	4, 345, 1 ² 3, 469, 4 y. 471, 4	46 134, 3 04 116, 0	04 75	4 3.	1 12,655,4 3 10,153,0	85 82, 1 98 72, 2 70 73, 0 02 69, 2
Highway	866, 9		$ \begin{array}{ccccccccccccccccccccccccccccccccccc$	31 12	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	09.3 07 65.8 02 92.9 100.0 12 100.0	Manufacturing buildin only Residential building only Street paving Dredging, river, harbor, etc	ng 33, 8 y370, 4 148, 4 c442, 9	31 8 98 8, 1 40 3, 0 58 15, 0	00 75 4 00 1	.4 2. .6 2. .7 2. .4 3. .8 1.	$\begin{array}{cccc} 4 & 170, 2 \\ 2 & 1, 142, 0 \\ 0 & 310, 8 \\ 4 & 954, 3 \end{array}$	19 73 07 05 9
Grading Street paving. Sewer, gas, water, conduit Dam and reservoir Railroad	900,0	40 4,04 49 2,96 04 69,36 62 98,85	30 12.	8 23. 6 10.	5 546,77 1 520,74 4 2,054,55	75 100.0 8 87.9 31 97.8	Subcontractors. Concreting Plastering and lathing	3 4, 130, 4 183, 2 215, 0	98 8, 3 12 6, 8	46 4 51 8 60	L 7 3, 8 3	2 + 10, 549, 2 7 1, 151, 2 5 576, 0	84 96. 09 100. 78 97.
Subcontractors Concreting Plastering and lathing Bridge and culvert Sce footnotes at end o	215, 6 87, 2	02 80,0	JUI 7.	$\begin{array}{ccc} 7 & 2. \\ 9 & 12. \\ 8 & 27. \\ 1 & 28. \end{array}$	8 576, 97	(8) 97.8	Roofing and Sheet-met Work Roofing	ai 3 520, 9	69 1	35 35 00	.1 (⁶) .1 (⁵) .1	693. 3	06 99. 98 99. 973 100.

TABLE 10.—COMPARISON OF COST OF DESIGNATED MATERIALS FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929, WITH COST OF MATERIALS AND VALUE OF CONSTRUCTION BUSINESS— Continued

[Based exclusively upon reports of establishments which gave the distributed cost of materials]

				1	<u>.</u>				-				11.1
		COST OF D MAT	ESIGI		•	Indi- cated			COST OF D MAT	ESIGN ERIAL			Indicated
RIND OF MATERIAL AND CLASSI- FICATION OF ESTABLISHMENTS	Cost of all materials distrib-			cent	Value of construction	per cent of all busi-	KIND OF MATERIAL AND CLASSI-	Cost of all materials distrib-			cent f	Value of construction	per cent of all
בו עמוווס אין	uted by kind	Amount	Total cost	Cost of all distributed materials	business	ness done by own force ¹	FIGATION OF ESTABLISHMENTS	uted by kind	Amount	Total cost	Cost of all distributed materials		ness done by own force
KANSAS CITY-Continued							KANSAS CITY-Continued						
Paints, varnishes, glass							Plumbing and gas fitting						
All classes	\$12, 569, 848	\$227, 439	100. 0	1.8	\$33, 210, 419	86. 3	equipment—Continued	184 190 400	4005 070	00 7	61 7	1010 510 001	0.0
General contractors ² Building Building not specialized ² Commercial building only. Manufacturing building	4, 345, 146 3, 469, 404 471, 413	62, 239 48, 825 4, 268	1.8	.8 1.4 5 1.4 9 .9	12, 655, 498 10, 153, 070	72.2 73.0	Subcontractors	1 321.985	73, 606 465, 320	7.4 46.6	46. 5 22. 9 59. 7	629, 134	95. 90. 98.
nily Residential building only Street paving Railroad	33, 831 370, 498 148, 440 953, 362	200	9. 8.1 1. 1.		1, 142, 007 310, 899	99.8	Automatic sprinkler sys- tem Electrical appliances and supplies	252, 492			100.0		ļ
Subcontractors	³ 4, 130, 498 463, 970	100	71. ((⁵)	3.9 (⁸)	4 10, 549, 284 1, 010, 911 4 4, 187, 962	96, 3 100, 0	All classes	12, 569, 848	655, 759	100. 0	5.2	33, 210, 410) 8G.
Electrical Heating and plumbing Plumbing Painting and decorating Glass and glazing Roofing_ and sheet-metal	104, 302	25 25 56, 482 103, 094	(⁵) (⁶) 24. 8 45. 3	(*) 56, 8 98, 8	1, 437, 544 603, 505 227, 217	98.1 100.0 100.0	General contractors ² Building Building not specialized ² . Commorcial building only. Residential building only.	³ 8, 439, 350 3 4, 345, 146	116, 121	17.7 14.4 11.0	1.4 2.2 2.2 .4	4 22, 661, 184 4 12, 655, 498 10, 153, 070 1, 190, 203 1, 142, 005 546, 774 2, 054, 533	
work Roofing	³ 520, 914 349, 369	1,575 75	(⁸)	(5)	4 1, 094, 206 693, 398	99, 8 99, 7	Sewer, gas, water, conduit Railroad	195, 849 953, 362	10, 721	2.0	4.0 9.6	1, 142, 007	7 65. 5 100. 1 97.
Roofing and sheet metal combined Steel erection Marble and tiling Power plant work	15, 000 144, 700 210, 938 .41, 155	1, 340 75	(⁵)) .9 (⁵)	277, 598 566, 673	100.0	Subcontractors Electrical Heating and plumbing Plumbing	³ 4, 130, 498 463, 970 ³ 1, 924, 951 779, 418			13.1 100.0 1.7 4.2	4 10, 549, 284 1, 010, 911 4 4, 187, 962 1, 437, 544	96. 100. 95. 98.
Roofing and sheet metal	10 100 010					a tha	Painting and decorating	99, 484	43, 002	6.6	43, 2	603, 505	100.
All classes				·		86 [°] .3 82.1	Elevators, dumb-waiters, and equipment						
General contractors ² Building Building not specialized ² Commercial building only. Manufacturing building	³ 8, 430, 350 4, 345, 146 3, 469, 404 471, 413	98, 960 83, 857	15. 6 13. 3 . 6	1.5 2.3 2.4	12,655,498	72, 2 73, 0	All classes General contractors ² Building not specialized ²		278 744	100.0	3.3	¹⁰ 33, 210, 419 ⁴ 22, 061, 135 ⁴ 12, 655, 498	82
nly Residential building only Railroad	33, 831 370, 498 953, 362	7,792	.5 1.2 3.8	2.1 2.5	1, 142, 007 2, 054, 531		Building not specialized ? Pipe: Drain tile, vitrified, concrete	3, 469, 404	278, 744 278, 744	100. Ö	8.0	• 12, 655, 498 10, 153, 070	73.
Subcontractors Heating and plumbing Heating and piping	3 4, 130, 498 8 1, 924, 951	509,763	9	12.3	4 10, 549, 284 4, 187, 962	96. 3 95. 4	All classes	12, 569, 848	220, 957	100. 0	1.8	33, 210, 419	86,
Roofing and sheet-metal work Roofing	779, 418	4, 382 600 503, 899 333, 854	1 7	1.4 .1 96.7 95.6 100.0	1, 437, 544 1, 094, 206	90.7 98.1 99.8 99.7 100.0	General contractors ² Building Building not specialized ² Highway	3 8, 439, 350 3 4, 345, 146 3, 469, 404 860, 985	202, 939 926 926 3, 569	.4 .4 1.6	(⁵) (⁵) . 4	4 22, 661, 135 4 12, 655, 498 10, 153, 070 2, 028, 822	72.
Roofing and sheet-metal combined Power-plant work Heating and ventilating	15, 000 41, 155	13, 500			25, 000 137, 924		Grading Street paving Sewer, gas, water, conduit Dam and reservoir Railroad	23, 114 148, 440 195, 849 300, 304 953, 362	$\begin{array}{c} 1,000\\ 14,557\\ 120,262\\ 57,078\\ 5,547\end{array}$. 5 6. 6 54. 4 25. 8 2. 5	61, 4 19, 0 , 6	2, 054, 531	99. 100. 87. 97.
equipment	12, 569, 848	645, 754	100.0	5.1	33, 210, 419	86, 3	Subcontractors	³ 4, 130, 498 183, 212	18, 018 800	41	. 4	4 10, 549, 284 1, 151, 209	96.1
Ceneral contractors 2	8, 439, 350 4 345 146	54,852			4 22, 661, 135 4 12, 655, 498 10, 153, 070 1, 190, 202 1, 142, 007 546, 775		Concreting Heating and plumbing Heating and piping Plumbing	³ 1, 924, 951 321, 985 779, 418	17, 218 2, 251 14, 967	7.8 1.0 6.8	. 9 . 7 1. 9	4 10, 549, 284 1, 151, 209 4 4, 187, 962 629, 134 1, 437, 544	100. (95. 90. 98.
Building not specialized ? Commercial building only Residential building only Sewer, gas, water, conduit	3, 469, 404 471, 413 370, 498 195, 849	3, 506 4, 672	. 5 . 7	.7 1.3	1, 190, 202 1, 142, 007	69. 3 65. 8	Wood piling and timber		044 077	100.0		A 22 010 410	0.0 4
							All classes General contractors	\$ 7, 845, 387	314.275	91.3	4.0	⁸ 33, 210, 419 4 21, 215, 706	83.
Subcontractors Heating and plumbing Heating and piping Plumbing	3 4, 130, 498 1, 924, 951 321, 985 779, 418	196, 760	91. 5 91. 5 30. 5 40, 8	14.3 30.7 61.1 33.8	4 10, 549, 284 4 4, 187, 962 629, 134 1, 437, 544	96, 3 95, 4 90, 7 98, 1	General contractors Bridge and culvert Dredging, river, harbor, etc. Subcontractors	1, 117, 851 442, 958	169, 100 145, 175 30, 000		15, 1 82, 8	2, 991, 049 954, 323	100.0
Heating and piping Plumbing Plumbing_ and heating combined Automatic temperature control	204, 323 30, 733	99, 929	15.5	48.9	339, 371	98, 8	Railroad Ready-mixed concrete	30, 000	30, 000 30, 000	8.7	. 7 100, 0	⁴ 10, 549, 284 250, 000	72.
Plumbing and gas fitting equipment							All classes General contractors Building Commercial building only	712, 569, 848 87, 845, 387 33, 751, 183	232, 825 212, 741 132, 505	100. ₀ 91.4 56.9	1.9 2.7 3.5	8 33, 210, 419 4 21, 215, 706 4 11, 210, 069	86. 83. 70.
All classes							Building not specialized Commercial building only_	2, 875, 441 471, 413	46, 176 86, 329	19.8 37.1	1.6 18.3	8,707,641 1,190,202	70. 69.
General contractors ² Building not specialized ² Commercial building only. Sewer, gas, water, conduit Waterworks.	³ 8, 439, 350 ³ 4, 345, 146 3, 469, 404 471, 413 195, 849	80, 089 9, 961 4, 237	10.3 9.0 8.0 1.0	1.2 2.1 2.3 2.1 2.2	$\begin{array}{c} 4 \ 22, \ 661, \ 135 \\ 4 \ 12, \ 655, \ 498 \\ 10, \ 153, \ 070 \\ 1, \ 190, \ 202 \\ 546, \ 775 \\ 68, \ 000 \end{array}$	82.1 72.2 73.0 69.3 100.0	Telephone line and system	148, 440 24, 605	16, 627 24, 605	16.8 7.1 10.6 8.6	4.5 11.2 100.0 .5	 33, 210, 318 4 21, 215, 700 4 11, 210, 060 8, 707, 641 1, 190, 202 2, 028, 822 310, 899 175, 778 4 10, 549, 284 1, 151, 209 	92,9 99,8 100,0 96,
Waterworks		9,118	. 9	72.4	68, 000	36.8	Concreting	183, 212	20, 084		r.	1, 151, 209	

TABLE 10.—COMPARISON OF COST OF DESIGNATED MATERIALS FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929, WITH COST OF MATERIALS AND VALUE OF CONSTRUCTION BUSINESS— Continued

[Based exclusively upon reports of establishments which gave the distributed cost of materials]

BATERIAL AND CLASS OF DEFAULT AND CLASS OF DEFAUL			COST OF DI					•		COST OF D				Indi
Proc. or 97 Avenue A. 1997 C. Lead Statistics Perc. evit.										MATI				cated per
FRA. TOPS OF BEAMLEMENARY Unit by Kind Amount B Total Solutions B Unit by B Amount B Total Solutions B Display B	KIND OF MATERIAL AND CLASSI-	materials					cent of all	KIND OF MATERIAL AND CLASSI-	materials				construction	of all busi-
ST. LOUTS Stand. grand. storm, stor. Stand. grand. storm, stor. Stand. grand. storm, stor. Stand. grand. storm, stor. Stand. grand. storm. stor	FICATION OF ESTABLISHMENTS	uted by	Amount				ness done	FICATION OF ESTABLISHMENTS	uted by	Amount	st	all als	business	doue
ST. LOUTE St. LOUTE St. LOUTE St. LO				al cos	st of a ribut ateria		own				tal c	ost of stribu aateri		own
Sind grand, store, slog, store, st				Tot	dist			· · · · · · · · · · · · · · · · · · ·			To	0-5 H		
and classes sp. trop: trop: trop: <thtrop:< th=""> trop: trop:</thtrop:<>	ST. LOUIS			-				ST. LOUIS-Continued						
All chasses Sp. 777, 17781, 983, 933, 720 00.0 7.0 500, 5720 7.1 General contractors 15,000, 803 1.000, 803<	Sand, gravel, stone, slag, cinders, etc.							Cut stone, granite and marble						
Commercial building only: 277, 697 447, 62 2.1 × 2.8 908, 627 6.6 7.6 <td></td> <td>\$24, 757, 167</td> <td>\$1,953,572</td> <td>100. 0</td> <td>7.9</td> <td>\$69, 055, 756</td> <td>74.1</td> <td>All classes</td> <td>\$24, 757, 167</td> <td>\$823, 706</td> <td></td> <td></td> <td></td> <td></td>		\$24, 757, 167	\$1,953,572	100. 0	7.9	\$69, 055, 756	74.1	All classes	\$24, 757, 167	\$823, 706				
Commercial building only- regression Spr. Col. Spr. Col. <t< td=""><td>General contractors ²</td><td>³15,089,368 5,701,32</td><td>8 1, 594, 792 8 709, 164</td><td>81.6 36.3</td><td>10.6 12.4</td><td>4 46, 963, 217 26, 666, 320</td><td>64.4 47.6</td><td>General contractors ² Building</td><td>³ 15,089, 368 5, 701, 323</td><td>376, 235 202, 956</td><td>24.6</td><td>3.6</td><td>26, 666, 326</td><td>47.6</td></t<>	General contractors ²	³ 15,089,368 5,701,32	8 1, 594, 792 8 709, 164	81.6 36.3	10.6 12.4	4 46, 963, 217 26, 666, 320	64.4 47.6	General contractors ² Building	³ 15,089, 368 5, 701, 323	376, 235 202, 956	24.6	3.6	26, 666, 326	47.6
Briefs and cuiver	Building not specialized 2 Commercial building only.	4, 798, 05	1 588, 897 6 48, 762	30.1 2.5	12.3 12.8	995.480	JI 79.0 I	Commercial building only.	523, 706	3, 423	3.8	8.3 .7	2,620,117	51, 3
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Highway	. 312.29	AL 103.440	H 0.a	1 2X.U	2.062.077	99.7	Highway Bridge and culvert	312, 290 449, 468	9,006	1.1	2.0	2,062,077	99.7
$ \begin{array}{c} \begin{array}{c} \begin{array}{c} \mbox{resc} \mbox{a}, \mbox{resc}, \mbo$	Street paving	- I, 380, 81	0 800	(3)	66.7 38.1	38,000 3,046,110) 66.5 93.5		1, 380, 817	159, 593				
Subcontractors. 19, 097, 709 388, 789 18. 2, 7 42, 003, 509 7.2 All classes. 24, 757, 167 1, 129, 207 100.0 4.8 09, 005, 767 74. Concreting: rimining: 21, 467 22, 21, 467 24, 757, 167 1, 129, 207 100.0 4.8 09, 055, 767 74. Musorr. 252, 642 67, 758 1, 100, 058, 757 100.0 4.8 09, 055, 767 74. Musorr. 776, 978 4.000 1, 100, 058, 757 1, 100, 058, 757 74. 200, 058, 757 74. 100.0 4.8 09, 058, 757 74. 100.0 4.8 09, 058, 757 74. 100.0 4.8 09, 058, 757 74. 100.0 4.8 09, 058, 757 74. 100.0 4.8 09, 058, 757 74. 100.0 4.8 09, 058, 756 74. 100.0 4.8 09, 058, 756 74. 100.0 4.8 09, 057, 657 74. 100.0 4.8 09, 057, 657 74. 100.0 4.8 09, 057, 657 74.	Sewer, gas, water, conduit Levee	- 435,98 - 9,65 4 734 11	7 2,914	1.1	30.2	95,000	0 100.0	Stone work	348,930	296,758 150,713	36.0	85.0	602, 331	100.0
	Subcontractors	3 9 667 79		1	i									
Heating and plumbling	Carpentering and wood- flooring	112,70	9 323 7 223 815	(3) 11.7	.3	268, 519 2, 001, 099	2 96.3 100.0							
Masser 24, 767, 167 98, 982 98, 42 98, 22 22, 22 22, 22 22, 22 22, 22 23, 22 24, 23, 217 15, 16 16, 16 22, 207 15, 16 16, 16 22, 207 15, 16 16, 16 22, 207 15, 16 16, 16 24, 77, 147 98, 17 15, 16 16, 16 26, 77, 147 98, 17 16, 16 26, 77, 147 98, 17 16, 16 26, 77, 147 98, 17 16, 16 26, 77, 147 98, 17 16, 16 26, 77, 74 17, 18 16, 38 3, 046, 116 98, 17, 18 17, 18 16, 38 3, 046, 116 98, 17, 18 17, 18 16, 38 3, 046, 116 98, 17, 18 17, 78 18 18 17, 78 18 18 29, 07, 77 17, 78 18 12 32, 07 18 18 17, 18 11, 16 98, 17, 18 17, 18 11, 16 98, 17, 18 17, 18 11, 16 98, 17, 18 17, 38 16 44 98, 17, 18 17, 38 16 47, 78, 716 98, 17 98, 17 18,	Heating and plumbing Pipe covering	³ 2, 834, 65 41, 00	0 1,000		(3)	124.000	95.2 100.0	General contractors ² Building	³ 15,089, 308 5, 701, 323	845, 515 449, 018	40.1	7.9	26, 666, 320	47.6
$ \begin{array}{c} \hline \begin{tabular}{l l l l l l l l l l l l l l l l l l l $	Masonry Plastering and lathing	- 825,94 - 67,26	21 59 277	3.0) 7.2 2,2	1, 966, 43 278, 71	5 99.0 7 100.0	Building not specialized * Commercial building only. Residential building only.	4, 798, 05 379, 566 523, 70	4,889 55,163	1 .4	1.3	995, 480 2, 620, 117	79.0
Matcal work; n. 6. s	Work	- ³ 375, 99	9 4,030			+ 1, 028, 65 749, 61	2 09.3 3 99.0	Highway Bridge and culvert	312, 29 449, 46	67,000	7.	3 27.5 14.9	776, 147 2, 062, 077	94.3 99.7
Matal work: $n. 6.$ Sol, $S. 94$ $2, 000$ 1 4 $1, 05, 230$ 00.0 100.0 100.000 100.000 100.000 100.000 100.0000 100.0000 100.0000 100.00000 100.00000000000 $100.0000000000000000000000000000000000$	Stone work Marble and tiling	- 348,93 - 501,95	0 16,290 5 50,571	1 2.6	3 10.1	602, 33 1, 253, 17	1 100, 0 3 99, 4	Grading Street paving	1, 20	7 186.580	16.	3 13.5	9 040 110	02 6
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Metal work, n. e. S	- 000,00	4 2,000		.4	1,062,92	100.0	Levce.	9,65	2,033		2 21.1	95,000	100.0
$ \begin{array}{c} 1.1 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	- paving, etc.)		,					power plant	1,708,28		1. 1.	8 1.2 6 .4	3, 257, 438 7, 704, 704	
$ \begin{array}{c} \text{Building not specialized} \\ \text{Commercial building only} \\ \text{Residential building only} \\ Residential building on$					-			Subcontractors	3 9, 667, 79	277, 782	24.	7 2.9		1
$ \begin{array}{c} Contributing only the field with goins of th$	Building Building not specialized ²	- 5,701,32	529,72 51 451,64	7 54. 1 46.	5 9.8 4 9.4	26, 666, 32 23, 050, 72	0 47.6 3 44.4	ing Concreting	112,70 661,45	8 254 7 187,634	16.	.2 7 28.4	2 001 004	100.0
Tile, facing, terra colta, floor and wall Structural steel All classes 24, 757, 167 483, 324 Structural steel All classes 24, 757, 167 483, 324 100.0 2.0 69, 055, 756 74.1 General contractors 2 315,089, 368 182, 832 37, 508, 368 182, 832 37, 508, 368 17, 21 63, 117, 01 23, 010, 723 44 Building not specialized 2 4, 767, 167 1, 500, 368 07, 521 70, 623 6, 60, 055, 756 74.1 General contractors 2 315,089, 368 07, 521,057,167 448, 963, 807 70, 523, 766 71, 50, 18, 32, 060, 723 444, 966 2,020, 17, 51, 17, 00 6, 766 71, 701, 723, 44.4 Building not specialized 2 4, 798, 506 13, 526 2.8 3, 69, 695, 496 79, 506 13, 680, 817 17, 17, 04, 076 90, 685, 786 74.1 Building not specialized 2 4, 734, 119 4, 400	Commercial building only Regidential building only	- 379,00	16 29,970 16 48,10	5 4.1	9.2	995, 48 2, 620, 11	79.0 51.3	Pipe covering	$\begin{bmatrix} 3 & 2, 834, 65 \\ - & 41, 00 \\ 1 & 551 & 42 \end{bmatrix}$	0 4,500 0 4,000 0 500) .	9.8	124,000	100.0
Tile, facing, terra coita, floor and wall All classes 24, 757, 167 483, 324 Structural steel All classes 24, 757, 167 483, 324 Structural steel All classes 24, 757, 167 483, 324 Structural steel All classes 24, 757, 167 483, 324 100.0 2, 69, 055, 756 74.1 General contractors 2	Highway Bridge and culvert	449,40	68 4,07	2	41 .0	2,062,07	7 94.5 7 99.7 (93.5	M asonry Glass and glazing	825, 94 262, 36	2 41, 187 8 9, 770	3.	7 5.0	1, 966, 43 584, 90	99,9 100.0
Tile, facing, terra coita, floor and wall All classes 24, 757, 167 483, 324 Structural steel All classes 24, 757, 167 483, 324 Structural steel All classes 24, 757, 167 483, 324 Structural steel All classes 24, 757, 167 483, 324 100.0 2, 69, 055, 756 74.1 General contractors 2	Sewer, gas, water, conduit.	435,98	6,85	1 .'	1.6	1,471,75	4 100.0	Roofing and sheet-metal work	\$ 375, 09	9 85	3 (5)	(1)	4 1, 028, 65	2 99.3
Tile, facing, terra coita, floor and wall All classes 24, 757, 167 483, 324 Structural steel All classes 24, 757, 167 483, 324 Structural steel All classes 24, 757, 167 483, 324 Structural steel All classes 24, 757, 167 483, 324 100.0 2, 69, 055, 756 74.1 General contractors 2				3 43.			9 97.2	Roofing Stone work		0 10,634 5 23,711	11 .	9 3.0	602, 33	1 100.0
Roor and wallAll classes24, 757, 167483, 324100. C2. C69, 055, 75674. 1All classes $24, 757, 167$ $1, 540, 765$ $100. 0$ $6. 2$ $69, 055, 756$ $74. 1$ General contractors 2 $15, 089, 368$ $182, 832$ $37, 8$ $1. 2$ $146, 663, 217$ $64. 4$ Building $5, 701, 323$ $857, 671$ $55. 7$ $15. 08, 366$ $976, 277$ $63. 4$ $6. 5$ $440, 963, 217$ $64. 4$ Building not specialized 2 $4, 798, 061$ $135, 162$ $22, 360, 728$ $44. 4$ $995, 480$ $79. 506$ $817, 721$ $53. 1$ $17. 0$ $23, 060, 726$ $29, 066, 320$ $47. 6$ Building not specialized 1 $4, 798, 506$ $135, 546$ 2.8 $3. 6$ $995, 480$ $79. 0$ $995, 480$ $79. 506$ $817, 721$ $83. 1$ $22, 096, 128$ $83. 706$ $27, 160$ $1. 8. 5. 2$ $200, 094$ $99. 68. 77. 6$ Oil and natural gas pipe line. $4, 734, 116$ $4, 406$ $6. 1$ $7, 704, 704$ $88. 1$ $1. 77, 704, 704$ $88. 1$ $1. 77, 704, 704$ $88. 1$ Roofingand sheet-metal $89, 667, 796$ $300, 492$ $62. 2$ $3. 1$ $12, 209, 252$ $97. 2$ $9. 687, 796$ $300, 696$ $77. 147, 744, 794$ Norch $80, 677, 962$ $10, 649$ $2. 2$ $8. 8$ $10, 649$ $99. 97, 796$ $200, 941$ $00. 4$ $1. 98, 984$ $4, 800$ $3. 1. 1$ $1, 477, 764$ Norching $80, 677, 962$ $100, 649$ $2. 2$ <	Tile, facing, terra cotla,		12 424,04	40.	/ 51.4	1, 500, 40	0 00.0	Structural steel						
$ \begin{array}{c} \text{work} \\ \text{Rconfng} \\ \text{Marble and tiling} \\ \text{Marble and tiling} \\ \text{Marble and tiling} \\ \text{Metal work, n. e. s} \\ \text{Metal work, n. e. s} \\ \text{Metal work, n. e. s} \\ \text{Marble and tiling} \\ \text{Metal work, n. e. s} \\ \text{Marble and tiling} \\ \text{Metal work, n. e. s} \\ \text{Metal work, n. e. s} \\ \text{Metal work, n. e. s} \\ \text{Marble and tiling} \\ \text{Metal work, n. e. s} \\ $	floor and wall					0.055 75		All classes	. 24, 757, 16	7 1, 540, 76	5 100.	0 6.2	69, 055, 75	6 74.1
$ \begin{array}{c} \text{work} \\ \text{Rconfng} \\ \text{Marble and tiling} \\ \text{Marble and tiling} \\ \text{Marble and tiling} \\ \text{Metal work, n. e. s} \\ \text{Metal work, n. e. s} \\ \text{Metal work, n. e. s} \\ \text{Marble and tiling} \\ \text{Metal work, n. e. s} \\ \text{Marble and tiling} \\ \text{Metal work, n. e. s} \\ \text{Metal work, n. e. s} \\ \text{Metal work, n. e. s} \\ \text{Marble and tiling} \\ \text{Metal work, n. e. s} \\ $					-	1 40 000 01	2 04 4	Building	1 5.701.32	8 976, 27 3 857, 67	7 63. 1 55.	4 6.1 7 15.0	$5 4 46, 963, 21 \\ 26, 066, 32$	$\begin{array}{ccc} 7 & 64.4 \\ 0 & 47.6 \end{array}$
$ \begin{array}{c} \text{work} \\ \text{Roofing} \\ \text{Marble and tiling} \\ \text{Stele areaction} \\ \text{Stele areaction} \\ \text{Marble and cinder block} \\ \text{All classes} \\ \text{All classes} \\ \text{Marble and tiling} \\ \text{Marble and tiling} \\ \text{Marble and tiling} \\ \text{Marble and tiling} \\ \text{Stele areaction} \\ \text{Stele areaction}$	Building Building not specialized ² .	4,798,0	23 178,42 51 135,14	3 36. 6 28.	6 3. 0 2.	26, 666, 32 23, 050, 72	0 47.6 3 44.4	Building not specialized ² .	_} 4,798,05	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1 53.	1 17.0	23,050,72 995,48 995,11	$ \begin{array}{ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{c} \text{work} \\ \text{Rconfng} \\ \text{Marble and tiling} \\ \text{Marble and tiling} \\ \text{Marble and tiling} \\ \text{Metal work, n. e. s} \\ \text{Metal work, n. e. s} \\ \text{Metal work, n. e. s} \\ \text{Marble and tiling} \\ \text{Metal work, n. e. s} \\ \text{Marble and tiling} \\ \text{Metal work, n. e. s} \\ \text{Metal work, n. e. s} \\ \text{Metal work, n. e. s} \\ \text{Marble and tiling} \\ \text{Metal work, n. e. s} \\ $	Commercial building only Residential building only	7-1 379,50 7-1 523,70	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	6 2. 1 6.	8 3. 2 5.	6 995,48 7 2,620,11	0 79.0 7 51.3	Residential building only. Highway	- 523, 70 - 312, 29 - 449, 46		$\begin{array}{c} 0 & 2 \\ 6 & 2 \end{array}$	7 13.	4 776,14 2,062,07	7 94.3
$ \begin{array}{c} \text{work} \\ \text{Rconfng} \\ \text{Marble and tiling} \\ \text{Marble and tiling} \\ \text{Marble and tiling} \\ \text{Metal work, n. e. s} \\ \text{Metal work, n. e. s} \\ \text{Metal work, n. e. s} \\ \text{Marble and tiling} \\ \text{Metal work, n. e. s} \\ \text{Marble and tiling} \\ \text{Metal work, n. e. s} \\ \text{Metal work, n. e. s} \\ \text{Metal work, n. e. s} \\ \text{Marble and tiling} \\ \text{Metal work, n. e. s} \\ $								Street paving Sewer, gas, water, conduit.	1, 380, 81	7 1,87 4 4,80	2. 0	1 . 3 1.	$1 3,046,11 \\ 1 1,471,75$	6 93.5 4 100.0
$ \begin{array}{c} \text{work} \\ \text{Rconfng} \\ \text{Marble and tiling} \\ \text{Marble and tiling} \\ \text{Marble and tiling} \\ \text{Metal work, n. e. s} \\ \text{Metal work, n. e. s} \\ \text{Metal work, n. e. s} \\ \text{Marble and tiling} \\ \text{Metal work, n. e. s} \\ \text{Marble and tiling} \\ \text{Metal work, n. e. s} \\ \text{Metal work, n. e. s} \\ \text{Metal work, n. e. s} \\ \text{Marble and tiling} \\ \text{Metal work, n. e. s} \\ $	Concreting Masonry	661,4 825,9	57 1,80 42 8,81	6 7 1.	4	3 2,001,09 1 1,966,43	4 100.0 F 99.9	Dredging, river, harbor, etc. Railroad	334,40	00 6,40	0; . 4 .	4 1. 7 48.	9 1, 175, 00 9 670, 60 4 7, 704, 70	4 95.6 4 86 1
Concrete and cinder block Steel breation 55,594 161,085 10.5 20.0 1,002,929 100. All classes 24,757,167 368,336 100.0 1.5 69,055,750 74.1 Reinforcing steel 161,085 10.5 20.0 1,002,929 100.	work	3 3 7 5 9	90 10,64	9 2.	2 2.	8 4 1,028,60	99.3		1	C 564 48	8 36	6 5.	8 4 22, 002, 55	8 97.2
Concrete and cinder block Steel breation 55,594 161,085 10.5 20.0 1,002,929 100. All classes 24,757,167 368,336 100.0 1.5 69,055,750 74.1 Reinforcing steel 161,085 10.5 20.0 1,002,929 100.	Marble and tiling Metal work, n. e. S	501,9	55 249, 22	8 51,	6 49.	$\begin{array}{c} 1,253,17\\ 1,062,99\end{array}$	73 99.4 26 100.0	Concreting	661,4	07 18 20 23,15	5 (0) 0 1	5 2,	2,001,09 3 1,611,80	4 100.0 9 100.0
The day design and the second								Steel erection Metal work, n. e. s	- 448, 48 - 555, 5	38 380, 10 34 161, 08	5 .10	5 29.	0 1,062,95	9 100,0
	All classes	24, 757, 1	67 368, 33	6 100.									9 8 60 055 7	6 74
Building not specialized 2. 4, 798, 051 18, 077 4. 9 . 4 23, 050, 723 44. 4 General contractors 5, 472, 110 457, 419 55. 8 . 4 24, 475, 348 48. Street paving 1, 380, 817 155, 050 42. 1 11. 2 3, 046, 116 93. 5 Building 45, 472, 100 457, 419 55. 8 . 4 24, 475, 348 48.	General contractors ²	15,089,3 5,701.3	68 361, 92 23 18, 07	4 98. 7 4.	3 2. 9 .	4 + 46, 903, 2 3 + 26, 666, 3	17 64.4 20 47.6			FE FOA - EE	0 71	0 0		
0 The matter and the dot 001 100 701 51 91 42 91 1 471 754 100 0 11 RITURING TOLESDARISHZED 4.000,0001 000,0101 20,01 0,01 20,000,0001	Street paying	1,380,8	51 18,07 17 155,05	7 4.	9 · · · · · · · · · · · · · · · · · · ·	4 23, 050, 72 2 3, 046, 11 2 1 471 7	23 44.4 16 93.5	Building	5,472,1	10 457, 41 38 395, 87	9 55 8 48	8 8	4 24, 475, 8 7 20, 860, 2	18 48.8 51 45.
			99 B. 41	2 1.	7	1 \$ 22,092,5	89 97.2	Commercial building only Residential building only	7 879, 5	66 21,88 06 39,61	32 2 59 4	.7 5.	8 995, 4 6 2, 620, 1 7 776 1	30 79. 17 51. 17 94.
Subcontractors 9, 667, 799 6, 412 1.7 1 4 22, 092, 539 97.2 Residential building only 523, 706 39, 659 4.8 7.6 2, 620, 117 51, 51 Concreting 661, 457 646 2 1 2, 001, 094 100, 0 Highway 312, 296 5, 380 7 1.7 776, 147 94 Masonry 825, 942 5, 766 1.6 .7 1, 968, 435 99.0 Bridge and culvert 449, 463 33, 533 4, 1 7, 5 2, 062, 077 99	Concreting Masonry	661,4 825,9	57 64 42 5,70	16 16 1	2 6	1 2,001,0 7 1,966,4	94 100, 0 35 99, 9	Highway Bridge and culvert	312,2 449,4	90 5,38 68 33,53	33 4	1 7	E 2, 062, 0	77 99.

and particular

TABLE 10.—COMPARISON OF COST OF DESIGNATED MATERIALS FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929, WITH COST OF MATERIALS AND VALUE OF CONSTRUCTION BUSINESS— Continued

[Based exclusively upon reports of establishments which gave the distributed cost of materials]

		COST OF D MAT	ESIG ERIA			Indi-			COST OF I	DESIG TERIA			Indi
KIND OF MATERIAL AND CLASSI-	Cost of all materials distrib-			cent	Value of	cated per cent of all busi-	KIND OF MATERIAL AND CLASSI-	Cost of all materials distrib-			r cent	Value of construction	cated per cent of all busi-
FICATION OF ESTABLISHMENTS	uted by kind	Amount	Total cost	Cost of all distributed materials	harning	ness done by own force 1	FICATION OF ESTABLISHMENTS	uted by kind	Amount	Total cost	Cost of all distributed materials		ness done by own force ¹
ST. LOUIS-Continued							ST. LOUIS-Continued						
Reinforcing steel-Contd.				,			Roofing and sheet metal						ĺ
General contractors—Contd. Street paving Sewer, gas, water, conduit Levee Oil and natural gas pipe line.	\$1, 380, 817 435, 984 9, 657 4, 734, 119	56, 712 310	6. ((5)	13.0	1, 471, 754	100.0	All classes. General contractors ¹ Building not specialized ² . Compared building only.			23.6	.5	46, 968, 217 26, 666, 320 23, 050, 723	64.4 47.6 44.4
Subcontractors Concreting Masonry Steel erection	³ 9, 667, 799 661, 457 825, 942 448, 488	152, 206 80, 979	18.6	5 23.0 9.8	$ 2,001,094 \\ 1,966,435 $	5 99.9	Residential building only. Bridge and culvert. Oil and natural gas pipe line. Subcontractors.	528, 706 449, 468 4, 734, 119	2, 180 38, 900 13, 827	12.0	1 .4 8.7 1 .3	995, 480 2, 620, 117 2, 062, 077 7, 704, 704	51.8 99.7 86.1
Lumber, rough and finished							Carpentering and woodfloor-	112.700			.1		
All classes		1, 272, 406					Roofing and sheet-metal work Roofing Sheet-metal work	375, 999	247, 820 177, 180	0 76. 54.	3 65.9 5 64.0	1, 028, 652 749, 616	09.3 99.0
General contractors ²	³ 15, 089, 368 5, 701, 323 4, 798, 051 379, 566 523, 706	1, 140, 887 888, 495 746, 005 36, 129 106, 361	69,8 58,6 2,8	15.6 15.5 19.5 20.3	26, 666, 320 23, 050, 723 995, 480 2, 620, 117	47.6 44.4 70.0 51.3	Heating and ventilating equipment						
Highway	449, 468 1, 380, 817 435, 984	4, 137 100, 921 4, 666 10, 059 81, 000 2, 366	6.4	2, 3 24, 2 24, 2 24, 5	2, 062, 077 3, 046, 116 1, 471, 754 1, 175, 000 95, 000	99.7 93.5 100.0 87.8 100.0	All classes General contractors ² Building Building not specialized ² Commercial building only.	³ 15, 089, 368 ³ 5, 701, 323 4, 798, 051	389, 987 235, 398	23.8 14.4 12.8	2.0 4.1 4.4	4 46, 963, 217 4 26, 606, 320 23, 050, 723	64.4 47.6 44.4
							Central station, light and power plant. Oil and natural gas pipe line.	1, 708, 286	107, 063 47, 526	6.5 2.9	6.3 1.0		100.0 86.1
Carpentering and woodfloor- ing Concreting	112, 709 001, 457	30, 465 28, 901	2.3	4.4	2,001,094	100.0	Subcontractors Carpentering and woodfloor-	³ 0, 667, 799			1	4 22, 092, 539	
Subcontractors Carpentering and woodfloor- ing Concreting Elevator construction Heating and plumbing Pipe covering Masonry Roofing and sheet-metal work Roofing	1, 012, 129 3 2, 834, 650 41, 000 825, 942	4, 311 1, 000 1, 000 21, 669	. 1 1. 7	(⁵) 2.4 2.6	1, 966, 435	95.2 100.0 99.9	ing Heating and piping Heating and piping Fips covering Plumbing Roofing_ andsheet-metal	112,709 3 2,834,650 1,167,036 41,000 1,551,429	5, 160 1, 219, 387 1, 085, 148 13, 700 120, 530	$\begin{bmatrix} 74.4 \\ 66.2 \\ .8 \end{bmatrix}$	93.0 33.4	2, 170, 634	95.2 90.1 100.0
Excavating Metal work, n. e. s	³ 375, 999 276, 780 1, 500 555, 594	1, 594 1, 594 1, 500 42, 079	.1	.4 .6 100.0 7.6	125,000	99.3 99.0 98.3 100.0	Roofing Sheet-metal work	070.9991	23, 707 10, 000 13, 707	1.4 .6 .8	6.3 3.6 13.8	1, 028, 652 749, 616 279, 036	99.3 99.0 100.0
Millwork	04 757 105	F10 (01	100.0	0.1	80 0=# 756	74 1	Plumbing and gas litting equipment						
All classes		512, 691 505, 875	<u> </u>	 	69, 055, 756 4 46, 963, 217	$\frac{74.1}{64.4}$	All classes	24, 757, 167	1, 691, 283	100. 0	6.8	69, 055, 756	74.1
General contractors ² Building not specialized ² Commercialbuilding only. Residential building only. Oil and natural gas pipeline.	879, 566 523, 706	498, 127 387, 240 34, 848 76, 039 7, 748	97.2 75.5 6.8 14.8	8,7 8,1 9,2 14,5	26, 066, 320 23, 050, 723 995, 480	47. 6 44. 4 79. 0 51. 3 86. 1	General contractors ² Building Building not specialized ² Commercial building only Oil and natural gas pipe line.	4, 798, 051 379, 566 4, 734, 119	170, 616 40, 605 13, 105 27, 500 130, 011	1.6 7.7	.7 .3 7.2 2.7	995, 480 7, 704, 704	47.6 44.4 79.0 86.1
Subcontractors Carpentering and woodfloor- ing Metal work, n. e. s	³ 9, 087, 799 112, 709 555, 594				4 22, 092, 539 268, 512 1, 062, 929	97. 2 96. 3 100. 0	Subcontractors. Heating and plumbing Heating and plping Plumbing and heating combined.	³ 9, 667, 799 ³ 2, 834, 65 1, 107, 036 1, 551, 429				4 22, 092, 539 4 5, 610, 371 2, 170, 634 3, 170, 436	
Paints, varnishes, glass All classes	04 757 107	466, 506	100 0	1.0	69, 055, 756	74.1	combined Electrical appliances and	75, 185	75, 185	4.4	100.0	145, 301	100.0
General contractors ?	15 089 368	16, 836					supplies		1 - 1 - 1 - 1 1 - 1	1			
Building not specialized ² . Commercial building only. Bridge and culvert. Oil and natural gas pipe line.	⁴ 15, 089, 308 ³ 5, 701, 323 4, 798, 051 379, 566 449, 468 4, 734, 119	16, 836 10, 976 4, 176 6, 800 596 5, 264	.9 1.5 .1	$ \begin{array}{c} 2 \\ .1 \\ 1.8 \\ .1 \\ .1 \\ $	46,963,217 26,066,320 23,050,723 995,480 2,062,077 7,704,704	47. 6 44. 4 79. 0 99. 7 86. 1	All classes General contractors Building. Building not specialized Com mercial building only. Residential building only.	³ 14, 860, 155 5, 472, 110 4, 568, 838 879, 566	2, 709, 201 1, 366, 869 33, 430 5, 364 24, 800	100.0 50.5 1.2 .2 .9		 ³ 69, 055, 756 ⁴ 44, 772, 745 24, 475, 848 20, 860, 251 995, 480 2, 620, 117 3, 046, 116 1, 471, 754 95, 000 	
Subcontractors. Carpentering and woodfloor- ing	3 9, 667, 799 112, 709	449, 670 1, 191		1.1	4 22, 092, 539 268, 512	97. 2 96. 3	Street paving Sewer, gas, water, conduit	1, 380, 817 435, 984	2,507 3,014	1	6 2 7	2, 620, 117 3, 046, 116 1, 471, 754	51.3 93.5 100.0
Electrical	112,709 1,315,243 197,092 262,368	1		4 100. 0 84. 5	268, 512 3, 409, 667 992, 577 584, 908		Levee Central station, light and power plant ¹¹ Oil and natural gas pine line	9,657 1,703,286 4,734,119		41.8 7.2	66, 3 4, 1	3, 257, 435	
Alass and glazing Roofing and sheet-metal work. Roofing Steel erection Marble and tillng Metal work, n. e. s.	* 375, 999 276, 780 448, 488 501, 955 555, 594	19, 377 19, 377 1, 379 163 3, 000	(0)	5.2 7.0 (⁴) 5	4 1, 028, 652 749, 616 1, 048, 400 1, 253, 173 1, 062, 929	99. 0 70. 6 99. 4 100. 0	Subcontractors Electrical Elevator construction Metal work, n. e. s	³ 9, 667, 799 1, 315, 243 1, 012, 129 555, 594	1, 342, 332 1, 299, 722 17, 610 25, 000	40.5 48.0 .7	13.9 98.8 1.7 4.5	4 22, 092, 530 8, 409, 667 1, 611, 809 1, 062, 929	100.0

TABLE 10.—COMPARISON OF COST OF DESIGNATED MATERIALS FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929, WITH COST OF MATERIALS AND VALUE OF CONSTRUCTION BUSINESS— Continued

[Based exclusively upon reports of establishments which gave the distributed cost of materials]

		COST OF D MAT	ESIGN ERIAI			Indi- cated			COST OF D MAT	ESIGN			Indi- cated
KIND OF MATERIAL AND CLASSI- FICATION OF ESTABLISHMENTS	Cost of all materials distrib			cent f—	Value of construction	per cent of all busi-	KIND OF MATERIAL AND CLASSI- DICATION OF PSYABLISHMENTS	Cost of all materials distrib-			cent —	Value of construction	
	uted by kind	Amount	Total cost	Cost of all distributed materials	business	ness PICATION OF ESTABLISHMENTS done by own force 1 ST. LOUIS—Continued Pipe: Cast-iron, sheet and tube steel, etc.—Contd. 56 74.1	uted by kind	Amount	Total cost	Cost of all distributed materials	business	done by own force 1	
ST. LOUIS-Continued							ST. LOUIS—Continued		i I				į
Elevators, dumb-waiters, and equipment							Pipe: Cast-iron, sheet and tube steel, etcContd.		,				
All classes	7 \$24,757,167	\$961,295	100.0	3.9	⁸ \$69, 055, 756	74.1	General contractors—Contd.						
General contractors	\$14, 860, 155	1, 840 1, 840	.2	(6)	4 44, 772, 745	65, 9	Street paving	\$1, 380, 817 9, 657	\$7, 893 46	0.2 (*)	0.6		93, 5 100, 0
General contractors Building Building not specialized Commercial building only_	3 5, 472, 110 4, 568, 838 379, 566	1,840 640 1,200	1.1	(6) (6) (5) .3	4 44, 772, 745 4 24, 475, 848 20, 860, 251 995, 480	48.8 45.5 79.0	Central station, light and power plant Oil and natural gas pipe line.	1, 708, 286 4, 734, 119	879, 734 3, 467, 792	9.8 89.2	22, 2 73, 3	3, 257, 435 7, 704, 704	86, 1
Subcontractors Electrical Elevator construction Ornamental iron	³ 9, 667, 799 1, 315, 243 1, 012, 129 130, 852	9,782 936,020	99.8 1.0 97.4 1.4	19. 9 .7 92. 5 10, 4	1,011,809	100.0	Subcontractors Heating and plumbing Heating and piping Plumbing Metal work, n. e. s.	9, 667, 799 2, 834, 650 1, 167, 036 1, 551, 429	8,765	.7 .4 .2 .2	.3 .6 .8	4 5, 601, 871 2, 170, 634 3, 170, 436	95.2 90.1 98.5
Pipe: Cast-iron, sheet and tube steel, etc. [§]							Machinery	555, 594	10, 000	. 0	1.8	1, 062, 929	100. 0
All classes	7 24, 757, 167	3, 885, 922	100. 0	15.7	⁸ 69, 055, 756	74.1	All classes	7924,757,167	470, 227	100. 0	1.9	8 10 69,055,756	74.1
General contractors Building Building not specialized Highway	³ 14, 860, 155 ³ 5, 472, 110 4, 568, 838 312, 290	3, 860, 103 3, 480 3, 480 1, 152	99. 3 . 1 . 1 (⁵)	26, 0 .1 .1	4 44, 772, 745 4 24, 475, 848 20, 860, 251 776, 147	65.9 48.8 45.5 94.3	General contractors Central station, light and power plant. Oil and natural gas pipe line.	³ 14, 860, 155 1, 708, 286 4, 734, 119	1 A A	14.7	4.1	4 44, 772, 745 3, 257, 435 7, 704, 704	100,0

Based upon the difference between the total value of all construction work reported and the value of subcontract work let.
Includes operative builders.
Includes construction work reported by establishments which did not include designated material in their distributed lists.
Includes construction work reported by establishments which did not include the designated material in their distributed lists.
Less than one-tenth of 1 per cent.
See footnote 5 of Table 9 on page 606
Includes cost of materials reported by operative builders who did not include the designated material in their distributed lists.
Includes cost of materials reported by operative builders who did not include the designated material in their distributed lists.
Includes cost of materials reported by operative builders who did not include the designated material in their distributed lists.
Includes construction work reported by subcontracting establishments which did not include the designated material in their distributed lists.
Includes construction work reported by subcontracting establishments which did not include the designated material in their distributed lists.
Includes construction work reported by subcontracting establishments which did not include the designated material in their distributed lists.
Includes construction work reported by subcontracting establishments which did not include the designated material in their distributed lists.
Includes construction work reported by subcontracting establishments which did not include the designated material in their distributed lists.
Includes construction work reported by subcontracting establishments which did not include the designated material in their distributed lists.
Is footnote 6 of Table 9 on page 606.

TABLE 11.-COST OF MATERIAL FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929

[This table is made up in three sections; the second section begins on p. 706, the third on p. 708]

		-		·						<u>од р. 70</u>	-,			
	Total cost	COST OF AL TERIALS DI UTED BY	STRIB-	Sand, gravel,	Brick (face, com-	Tile	Tile, facing, terra	Con- crete	Cut stone.	Riprap,				Struc-
CLASSIFICATION OF ESTABLISHMENTS	of all materials	Amount	Per cent of total	stone, slag, cinders, etc.	mon, fire, paving, etc.)	(fire- proof- ing)	cotta, floor and wall	and cinder block	granite, and marble			Lime	Plaster, etc.	tural steel
	\$52, 422, 048	\$42, 595, 500	81, 3	\$4, 208, 745	\$1,432,961	\$261, 286	\$729, 915	\$576, 744	\$1,087,739	\$868, 986	\$2, 722, 512	\$87, 101	\$221, 757	\$2, 448, 905
Operative builders		895, 133	38.4	63, 135	37, 930	5, 288	24, 243	48, 478	10, 980	14, 745	23, 916	2, 464	36, 770	8, 747
General contractors. Building. Building not specialized. Commercial building only. Manufacturing building only. Residential building only.	$\begin{array}{c} 31,522,808\\ 14,650,528\\ 10,901,737\\ 2,105,795\\ 164,831 \end{array}$	26, 322, 586 11, 226, 407 9, 232, 296 850, 979 33, 831	76.6 84.7 40.4 20.5	1, 231, 990 65, 476	4,700	100, 525 30, 872	180, 446 40, 585	73, 947 22, 405 863	344, 584 261, 271 35, 350	628, 214 13, 737 9, 535 432	2, 355, 234 1, 194, 746 1, 077, 686 37, 707	47, 136 42, 812 39, 194 806	74,033	1, 109, 545
Bridge and enlyert	1 700 501	1 790 580	96.6 78.4	1, 060, 237 210, 742	4, 472	1,450	39, 161	7, 104	14,686 9,000	21, 380 227, 804	432, 245 211, 386	775 2,500	14, 052	81,700 61,149 416,605 1,300
Grading Street paving Sewer, gas, water, conduit Dam and reservoir Waterworks	2, 606, 793 930, 571 300, 304 72, 678	1, 845, 681 698, 710 300, 304 72, 678	70.8 75.1 100.0 100.0	628, 420 99, 045 85, 030 3, 000	10, 845 10, 435 4, 000			217, 847 189, 845	159, 593	56,900	282, 409 28, 237 50, 794	137		6,872 6,918
Dredging, river, harbor, etc Levee. Railroad. Central station, light and power	9,657	777, 358 9, 657 975, 180	100.0 100.0	2, 914 167, 643						205, 682 100, 711	2, 033 113, 641			6, 400 92, 964
Oil and natural gas pipe line Telephone line and system	1,768,849 4,734,119 24,605	$\substack{1,752,849\\4,734,119\\24,605}$	100.0	138 11, 366	8, 000 5, 373		4, 409				20, 000 17, 543	912	600	20, 308
Subcontractors Carpentering and woodflooring Concreting. Electrical. Elevator construction	¹ 18, 566, 099 202, 141 1, 359, 763 1, 958, 792	15, 377, 781 144, 014 883, 399 1, 925, 992	98, 3						548, 896		343, 362 254 225, 116		110, 854	
Elevator construction	1,012,125	1, 012, 129	100.0											23, 159

TABLE 11.—COST OF MATERIAL FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929— Continued

[See note at head of this table]

CLASSIFICATION OF ESTABLISHMENTS	Total cost of all	COST OF AI TERIALS DI UTED BY	STRIB-	Sand, gravel, stone,	Brick (face, com- mon,	Tile (fire-	Tile, facing, terra cotta,	Con- crete and	Cut stone, granite	Riprap,	Cement	Lime	Plaster,	Struc- tural
CLASSIFICATION OF LOTALLASSIFICATION	materials	Amount	Per cent of total	slag, cinders, etc.	fire, paving, etc.)	proof- ing)	floor and wall	cinder block	and marble	etc.			etc.	steel
MISSOURI-Continued.														
Subcontractors-Continued.	\$6, 564, 359	\$5, 599, 398	85.3	\$1, 175	\$325		\$4, 296	******	i					
Subcontractors—Continued. Heating and plumbing Heating and piping Pipe covering	2, 075, 158 377, 000	1,680,278 377,000 2,720,072	100.0	25 1,000 50	100		4 906				\$4, 654 4, 000 600 54			
Plumbing Plumbing and heating combined Automatic temporature control	2, 972, 719 856, 257 30, 733	538, 823 30, 733	62.9 100.0	100	200		*, 200				54			
		252, 492 920, 219	100.0	63, 441	487, 354	\$87,000	22, 824	\$10, 516			47, 379	\$25, 231		\$908
Automatic sprinkler systems Massonry Painting and decorating Plastering and lathing Roofing and sheet-metal work Roofing	359, 831 366, 730	359, 831 366, 730 282, 958	100.0 100.0 98.8	7 388							9, 779	0 007	\$100 874	
Plastering and lathing Roofing and sheet-metal work Roofing	286, 397 1, 282, 042 831, 374	1, 178, 001 745, 909	91.9 89.7	5,564			10, 649				108	5, 507	·••109, 074	с. Qr
Sheet-metal work Roofing and sheet metal combined.	337, 668 113, 000	319,092 113,000	94.5 100.0											
Sheet-metal work Roofing and sheet metal combined Steel erection Stone work	593, 188 510, 630 1, 215, 410	593, 188 360, 630 776, 446	70.6	16,200		23 600	371 502		\$308, 458	\$24,027	10,634	1, 221	480	513, 109
Excepting	10, 500	10,500	100.0											
Ornamental iron Bridge and culvert	87, 240 230, 000	87, 240 30, 000	100.0 13.0	32,856							3, 371	5		1,095
Power-plant work. Metal work, n. e. S. Flooring, n. e. S.		41, 155 659, 474 15, 625	90. 5!	2,000	32, 079		30,000	1,070	107		1,002	480		1, 095 2, 232 161, 085
KANSAS CITY	15, 733, 407	12, 569, 848	79. 8	1, 279, 348			191, 055				1, 181, 539		143, 941	
Operative builders	1, 818, 504	593, 963	82:7	25, 908	23, 744	4, 700	22, 940	23, 110	10, 480	6, 025	16, 784	2, 304	12, 950	6, 980
General contractors	9, 013, 166 4, 436, 422	7, 845, 387 3, 751, 183	87. 0 84. 6	1, 163, 266 422, 621	203, 481	61.777	56.517	66.256	68,289	2,541	486, 125	7,970 7,195	27, 081	536,937 117,593
Building not specialized Commercial building only	3, 231, 492 596, 601	2, 875, 441 471, 413	89.0	387, 115 16, 714	124, 426	33,082	29,468	39, 20t 22, 405	22, 398	1, 564	432, 367 32, 818	6, 075 649	26, 811	101,717 14,176
Manue facturing building only		33, 831 370, 408 866, 985	20.5 83.5 84.8	18, 702 315, 103	4,700 31,435 18,791	1,000	·	3,720 7 104	41, 965	545 4,000	20, 940	471	270	1, 700 11, 600
Highwa ⁹ Bridge and culvert	1,021,965 1,117,851 23,114	1, 117, 851 23, 114	100.0	85, 985	926					220,000	119, 429			322, 036 1, 300
Street paving Sewer, gas, water, conduit	291, 344 277, 710	148, 440 195, 849	51, 0 70, 5	65, 000 	7,000 1,950						25, 000 7, 500			2, 118
General contractors Build ing Build ing Commercial building only Manu facturing building only Resid ntial building only Highway Bridge and culvert. Grading Street paving Street paving Street paving waterworks Drodging, river, harbor, etc Railroad Central station, light and power plant	300, 304 12, 598	300, 304 12, 598 442, 958	100. 0 100. 0 100. 0	85, 080	4,000					151 089	50, 709			322, 036 1, 300 2, 118 82, 200
Railroad	1, 056, 137	953, 362	90.3	167, 645						100, 711	113, 641			82, 200
Telephone line and system	8, 138 24, 605	8, 138 24, 605	100. C 100. O	138	8,000									
Subcontractor	² 4,901, 737	4, 130, 498 183, 212	84.3	90, 174 20, 155 75 25 50	32, 717	· · · ·	111, 595	1, 373	42, 578	2,000	45, 314	8, 267	103, 910	150, 101 13 774
Concreting. Electrical Heating and plumbing. Fleating and plumbing. Pipe covering. Plumbing. Plumbing and heating combined. Automatic temperature control	328, 266 482, 770 2, 347, 597	463, 970 1, 924, 951	96. 1 82. 0	75	125						100			····
Heating and piping	562, 160 336, 000	321, 985 336, 000	57, 3 100, 0	25	100						100			
Plumbing and heating combined.	795, 418 370, 794	779, 418 204, 328 30, 733	98. 0 . 55, 1	50									· · · · · · · · · · · · · · · · · · ·	
Automatic temperature control Automatic sprinkler systems Painting and decorating	30, 733 252, 402 99, 484	252, 492 99, 484	100. 0 100. 0											
Glass and glazing Plastering and lathing	104, 362 219, 131	104, 362 215, 692	100. 0 98. 4	5, 882 1, 534 1, 534							878	7,672	103, 545	
Roofing and sheet-metal work	550, 914 379, 369 156, 545	520, 914 349, 369 156, 545	94.6 92.1 100.0	1, 534							25 25			
Sheet-metal work Roofing and sheet metal combined. Steel erection	15, 000 144, 700	15, 000 144, 700	100.0 100.0											133, 000
Marble and tiling Bridge and culvert	282, 688 87, 240	210,938 87,240	74.6 100.0	28, 153 32, 856			111, 598		42, 471		16, 472 3, 375	115	365	1, 095
Railroad Power plant work	30,000 41,155 103,880	30,000 41,155 103,880	100, 0 100, 0 100, 0	1, 519	32, 579			1, 373	107		1, 002	480		2, 232
Metal work, n. e. s	29, 946, 509		·	1, 953, 572	972, 358	187, 882	483, 324	368, 336	823, 706	147, 164	1, 123, 297	54, 301	54, 645	1, 540, 765
Operative builders	342, 585	229, 213	66, 9	26, 947	12, 161	588	1, 303	15, 362	500	1, 720	6, 632	100	23, 820	-372
General contractors	18, 151, 262 7, 677, 587	14, 860, 155 5, 472, 110	81. 9 71. 3	1,567,845 682,217	535, 374 517, 566	64, 193 64, 193	181, 529 177, 120	346, 562 2, 715	375,735 202,450	121, 417 5, 413 2, 188	838, 883 442, 386	26, 690 25, 778	$24,381 \\ 23,781 \\ 4,209$	975, 905 857, 299 817, 349
Building Building not specialized Commercial building only	5, 395, 823 1, 497, 194	4, 508, 838 379, 566 523, 706	84.7 25.4	561, 950 48, 762 71, 505	439, 483 29, 978	61, 016 3, 177	133,843 13,536	2,715	167,609 31,424		838, 883 442, 386 382, 334 4, 889 55, 163 85, 800 67, 000	25, 555 157	10, 500	817, 349 12, 800
Residential building only	784, 570 477, 956	312.2960	66.8 65.3	71, 505 152, 325 103, 446	457				3, 423 4, 686 9, 000	3, 225 7, 404	85, 800 87, 000	66	9,072	12,800 27,150 41,936 32,616
Bridge and culvert Grading Street paving	509, 470 7, 879 1, 829, 591	449, 468 1, 200 1, 380, 817	88, 2 15, 2 75, 5	800 526,057	1, 055			155, 056	159, 593	54, 600	186, 586			1, 872 4, 800
Sewer, gas, water, conduit Dredging, river, harbor, etc	585, 984 334, 400	435, 984 334, 400	74.4	88, 720	6, 851					54,000				4,800 6,400
Levee Railroad	9, 657 276, 333	9, 657 21, 818	100. 0 7. 9	2, 914										10, 674
Central station, light and power plant Oil and natural gas pipe line	1, 708, 286 4, 734, 110	1, 708, 286 4, 734, 119	100. 0 100. 0	11, 366	5, 373		4, 409				20, 000 17, 543	912	600	20, 308
	,	-,,												

See footnotes on p. 706.

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TABLE 11.—COST OF MATERIAL FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929-Continued [See note at head of this table]

				Į.	see note a	it head of	ruis tani	ej							
CLASSIFICATION OF ESTABLISHMENT	Total		T OF ALL NALS DIST TED BY KI	RIB- IND	Sand, gravel, stone,	Brick (face, com-	Tile (fire-	Tile, facing, terra			liprap,	0	т.	Plaster,	Struc-
CLASSIFICATION OF ESTABLISHMENT	s of al mater	ials	mount	Per	slag, inders, etc.	mon, fire, paving, etc.)	proof- ing)		cinder 🔤	ranite I and narble	ubble, etc.	Cement	Lime	etc.	tural steel
ST. LOUIS-Continued.						1									-
Subcontractors. Carpentering and wood flooring. Concreting. Electrical. Elevator construction. Heating and plumbing. Heating and plping. Pipe covering. Plumbing	\$11,452 112	2,662 8 9, 2,709	667, 799 112, 709	100. Ol	323	\$424, 823			· · · · · · · · · · · · · · · · · · ·	1		\$277, 782 254		\$6, 444	\$564, 488
Concreting Electrical	902 1, 315	, 336 , 243 1,	661, 457 315, 243	78.3	223, 815		12, 495	1,800	646			187, 634	450		135
Elevator construction	1,012 3,213	1,129 1 1,295 2	012, 129 834, 650 167, 036	100.0 88.2	1,000							4, 500			23, 159
Pipe covering	1, 321 41 1, 743	.,741 1, .,000	41,000	88.3 100.0 89.0	1,000				 			4,000			
Plumbing and heating combine Masonry	d 100		551, 429 75, 185 825, 942	70.3	59.275	424, 823	87.006	8,817	5.766			41, 187	23.508		
Painting and decorating Glass and glazing	$\begin{array}{c ccccc} 1 & & & & 100 \\ \hline 1 & & & 1,267 \\ \hline 1 & & & 197 \\ \hline 1 & & & 262 \\ \hline \end{array}$, 092 2, 368	197, 092 262, 368	100.0								9, 779			
Painting and decorating Glass and glazing Plastering and lathing Roofing and sheet-metal work	07	, 200	375, 999	100, 0 83, 5	1,476 4,030			10, 649			-	83	2, 235	6, 329	200 100
Sheet-metal work	332	2,245 7,795 8,488		83.3	4,030			10, 649 -		-		- 83			
Steel erection Stone work Marble and tiling	498	5, 488 5, 930 1, 437	99, 219 448, 488 348, 930 501, 955	100.0 69.9 63.3	16,290		23 600	249 228		296, 758	24, 027	10,634 23,711	1, 221	115	aau, 109
Excavating Ornamental iron	1 270	, 500), 038	1,500 130,852	100.0											380, 109 161, 085
Metal work, n. e. s Flooring, n. e. s	624	, 969 , 625	555, 594	88.9	2,000			30,000							161, 085
		1		<u></u>		<u></u>	<u> </u>	<u>· · </u>	<u> </u>		<u>_</u>	 		. .	
CLASSIFICATION OF ESTABLISH- MENTS	Reinforc- ing steel	Cast iron, miscel- laneous exclud- ing pipe	dom	Meta and wire lath and fu ring	Orna menta meta ir- work	l rough	- Sinn	Mill worl		proof ing m	rough	, var- n nishes, n- and	Roofin and sheet metal	floor-	Screens, shades, awn- ings, etc.
MISSOURI	\$2, 028, 469		5 \$432, 42	2 \$117, 6	42 \$245, 6	20 \$3, 088, 2	19 \$76, 5	54 \$1,018,	178 \$453, 3	63 \$321, 54	41 \$470, 1	57 \$783, 16	5 \$1,280,9	78 \$178, 21	0 \$89, 583
Operative builders		5 24	0 4,64	5 10, 1	30 2, 2:	10 252, 2			500 4,0	00 83	10 25, 8	83 20, 60	4,0		
General contractors. Building Building not specialized. Commercial building only Manufacturing building only. Residential building only.	1, 666, 828	11.44	7 180, 34 4 172, 58	2 30,4 4 30,3	23 25, 20 83 21, 34	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	46 36,7 33 36,7 27 28,1	27 884,8 27 877, 64 644,	857 56, 9 109 51, 6	31 31 76	18 423, 8 33 340, 3	26 76,89) 180, 9	72 87,72	5 23,649 5 23,649
Building not specialized Commercial building only	880, 148 79, 118	5 5, 50 5 5, 13	4 172, 58 6 147, 32 2 22, 73	4 30,3 4 7,9 5 12,5	96 18,0 80 2,8	22 1, 371, 3 24 92, 0	07	64 644, 56, 0	100 27.5	16 28, 20)4 290, 4 37 19, 8	21 48,87 42 11,06	3 139,4	36 1,80	5 12,088 0 2,500
Residential building only	81, 640	74		5 9,8	07 50	6, 1 00 213, 1	93 03 8, 5	63 176, 4	105 22, 9		22 29, 2	00 2,00 63 14,94			ō 9, ō61
Highway Bridge and culvert Grading	95, 730	3.48	3 5 			- 43, 7 271, 9	40 24		405 22, 9		71 3, 5 43 4, 6	78 590	38, 9	50	
Street paving Sewer, gas, water, conduit Dam and reservoir	53, 989	1,55 6,12	5		40	10,9	03			14	40 4, 5 30 8, 7	98 28 : 24			ō 9, ō61
Waterworks	i 450	70	5 5 	0		1 8	801								
Dredging, river, harbor, etc Levee	310	8	1			- 190, 7 - 2, 3	52				36,0				
Railroad Central station, light and power	1 .	11, 29	3	-	3,86	291,4	78			9,30	32 22, 9				
plant Oil and natural gas pipe line	602		7, 60	B		49, 24	43	7, 1	748 5, 3	38 198, 35	i9 2, 0	61 00 5, 264	13, 3	27	
Subcontractors. Carpentering and wood flooring	353, 289	55, 408	3 247, 43	5 77,0	89 218, 20)4 247, 23 61, 7		36 6, 8 1, 8	316 392, 42 316 27, 44		3 20, 40 1 1, 40		1, 019, 58		
Concreting Electrical	183, 754					- 89,5	53 9, 0 50	00		52,41		5,859			
Elevator construction Heating and plumbing		17, 218	3	i	ōō	4, 3	11		356,00	1, 20	0	70		40	ō
Heating and piping Pipe covering		15, 218	s	- - - i	ōō	1, 00	00		356, 00	0 1, 20	0				
Plumbing Plumbing and heating com- bined		2,000	1			·- ``						28	(·	40	0
Masonry Painting and decorating	80, 799					21,66	39					316, 829			
Glass and glazing Plastering and lathing	60, 000		25, 000 2, 904	76, 1	11	2, 19	3, 9		50		1, 97	324, 803			
Roofing and sheet-metal work Roofing			250	0 64	50 17,99	- 1,67	76 56 76 56	10 30	8, 37 7, 62	6 17,77	2 1,22	28 22,302 78 20,652	629.60	3 14 72	2
Sheet-metal work Roofing and sheet metal com-			250	6.	50 17,99	1		•	78	0	- 68		· · ·		^
bined Steel erection Marble and tiling	2, 000	10, 000	1, 780	22	62, 64					0 6	6 31	1,500 2,719 10 238			
Excavating Ornamental iron	2, 000				115, 57	- 1,50	0				3,00				
Bridge and culvert Power plant work			280			20, 56	9 8					173	88	2	
Metal work, n. e. s Flooring, n. e. s		28, 190	217, 221		21,99	6 42,07	9	- 5, 0	00	- 2,00 - 5	0 78 4	30 3, 000		15, 57	57,650
Cartain actablichmonto did not si				-6434.45		- 1	= 			=		= ====== 		d in the	

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Certain establishments did not give a distribution of the cost of their materials by separate items. Amounts reported by such establishments engaged in the following lines of work have been included as indicated in figures shown for "Total cost of all materials": ¹ Sewer, gas, water, conduit, \$66,913. ² Ornamental iron, \$12,637; and sewer, gas, water, conduit, \$66,913.

TABLE 11.—COST OF MATERIAL FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929-Continued

[See note at head of this table]

CLASSIFICATION OF ESTABLISH- MENTS	Reinforc- ing steel	Cast iron, miscel- laneous, exclud- ing pipe	Metal doors, win- dows and trim	Metal and wire lath and fur- ring	Orna- mental metal work	Lumber, rough and fin- ished	Laths, shin- gles, and shakes	Mill- work	Com- posi- tion board	Water- proof- ing ma- terials	Hard- ware, rough and fin- ished	Paints, var- nishes, and glass	Roofing and sheet metal	Fin- ished floor- ing, n, e, s.	Screens, shades, awn- ings, etc.
KANSAS CITY	\$786, 729	\$18, 311	\$143, 916	\$45,070	\$37, 331	\$1, 382, 841	\$33, 744	\$312, 361	8374, 851	\$39, 621	\$178, 233	\$227, 439	\$632, 645	\$16, 432	\$66, 709
Operative builders	8, 145	240	4.645	8, 026	2, 210	147, 739				610			2,650	10, 401	6, 250
General contractors	670, 902		97, 631	10, 837	12, 581	1, 153, 478	12, 200	227, 329	33, 475	20, 562 9, 435	151, 260	44, 466	120, 232 96, 310	6, 031	10, 459
Building not specialized Commercial building only	421, 850 323, 786	3,086	77,900	2,067	8,721 7,497	544, 767 420, 544	8,200	143,717	33,475 14,391	9,435 8,816	151, 260 115, 767 97, 442	28.716	81.207	4,181	10, 459 6, 659
Commercial building only Manufacturing building only Residential building only	. 57, 233					6, 193	1	21,756		397	9, 350 800	4, 268	8,836	1,850	1, 300
Highway	. 33,975					7,852			1	222	-/	7,146	7,792		2, 500
Bridge and culvert	38, 224					181 528									
Sever, gas, water, conduit	4,000	1,011 1.800				5, 397 6, 000				216	3, 000	200			
Dam and reservoir Dredging, river, harbor, etc	.1 69.305					26, 400 109, 752					15,005				
		11, 296			3, 800					9, 362				1	
Subcontractors	107, 682		41, 640	26, 207	22, 540	81, 624 57, 865	1,078	3	338, 726	18,449	8,346	162, 864	509, 763		50, 000
Electrical						50			998 000			100			
Heating and piping									000,000				4, 982 4, 382 600		
Plumbing						35						25	600		
Glass and glazing												103, 094			
Roofing and sheet-metal work	60,000			26, 029		2, 195	560		2, 676	5, 428	1, 100	1, 575	503, 899		
Roofing Sheet-metal work						82	500		2,676	5, 128	135	75	333,854		
Roofing and sheet metal com- bined												1, 500	13, 500		
Steel crection			1, 780	178	7, 640	300			50	20	200	1, 340 75			
Bridge and culvert	24, 556		280			20, 569 528						173	882		
Railroad			38, 980		14, 900										
51. HOULD	010, 771	65, 241	262, 772	64, 468	202, 994	1, 272, 406				272, 864	226, 691	466, 506		.125, 376	·
Operative builders	1			2, 104		84, 534	4,820	26, 118		-	5,714		625		1.1
General contractors	584, 580	11,833 5,042	57, 227 49, 619	12, 132 12, 092	10, 440 10, 440	803,961	18.868	472,009	7,694	13.883	172 014	16, 336 10, 476	76,139 23,912	46,692	9,944
Building Building not specialized Commercial building only	1 21.882	42	46,265	1,550	8,340	661.471	16, 980	361,122 34,848	1 3 248		10.492	10, 470 3, 676 6, 800	13, 532 8, 200		1,200
Residential building only	39,659			1.542		106, 361 4, 137	1, 888	34, 848 76, 039	3, 371	1,840 1,000	15,714		2,180	775	4,086
Bridge and culvert Street paving Sewer, gas, water, conduit	33, 533	2,485				100,921				3, 594	1,064	596	38,900		
Sewer, gas, water, conduit Dredging, river, harbor, etc	56, 712	2, 576		40		10,059				164	8,724 21,000				
Levee	. 310	89				2, 366					5,508				
Railroad Oil and natural gas pipe line	602		7,608			49, 243		7,748	5, 338	198, 359	2,000		13, 327		
Subcontractors	235, 185	53, 408	205, 545	50, 232	192, 554	131, 519	12, 463	6,816 1,816	52, 948	56, 864 1, 811	$8,469 \\ 1,407$	449,670	247,974 154	71,899	7, 650
Carpentering and wood flooring Concreting	152,206					28, 901	9,000	1,816		39,415	4,960	5 750			
Electrical Elevator construction Heating and plumbing										1 900					
Heating and piping		15, 218 15, 218				1,000									
Pipe covering Masonry	80,979			100		1,000 21,669			20,000	1,200					
Painting and decorating Glass and glazing			25,000									197,092 221,709			
Plastering and lathing Roofing and sheet-metal work			2, 304	50, 082	14, 881	1, 594 1, 594	3, 463		558 4,950	12, 344	819 443	19, 377	247, 820	14, 722	
Roofing Sheet-metal work					14.881	1, 594			4,950	12,344	443	19, 377	177, 189 70, 631	14, 722	
Steel erection Marble and tiling	. 2,000	10,000			55,000					40	110	$1,379 \\ 163$			
Excavating Ornamental iron					115, 577	1,500				 					
Metal work, n. e. s		28, 190			7,096	42,079		5,000		2,000 54	730	3,000		15,571	7,650
Flooring, n. e. s	· • • • • • • • • • • • • • • • • • • •									T					

TABLE 11.—COST OF MATERIAL FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929—Continued

[See note at head of this table]

CLASSIFICATION OF ESTABLISH- MENTS	Heating and ven- tilating equip- ment	Plumbing and gas- fitting equip- ment	Electrical appliances and sup- plies	Eleva- tors, dumb- waiters, etc.	Pipe: Drain tile, vitri- fied, con- crete, etc.	Pipe: Cast iron, sheet and tube steel, etc.	cable,	Bitumi- nous paving mate- rials	Wood piling and timber	Ready- mixed concrete	Machin- ery	Freight hauling ortruck- ing to job	ucts, n. e. s.,	Mineral prod- uets (non- metal- lic), n. e. s.	Miscel- laneous ³
MISSOURI	\$2,628,540	\$3,197,406	\$3.570.866	\$1.240.582	\$421. 381	\$4.026.989	\$67.867	\$425, 550	\$540.916	\$423, 918	\$495, 431	839, 232	\$176, 994	\$58, 832	\$164, 991
Operative builders			29, 270		5, 239		100						935		532
Opported contractory	149 304	· ·				3, 927, 787			510 916	361, 436	495, 431	81, 928	141, 592	23, 074	96, 988
Building Building not specialized Commercial building only	- 269, 928 - 223, 250 - 29, 500	109, 584 60, 123 37, 461	137, 340 84, 666 26, 837	270, 227	13, 576 10, 576	5, 486 3, 486	. 2, 184	1			495, 431 22, 200 22, 200			23, 074 3, 188 163	63,006 39,218 1,105 15,800
Manufacturing building only	- 17, 172	12,000	25, 837		3,000 25,179 23,214	11,568	544	7,275 142,380		817 39,004				19, 723	6, 883 23, 791 6, 277 3, 646 268
Bridge and culvert					1.000	800	423	14,000	169, 535			12, 152	7,500		
Street paving Sewer, gas, water, conduit	17,787	4, 237	2, 567 21, 754		19, 044 180, 134	8, 243 7, 854	3, 761	233, 307		129, 427		12, 327			6, 277 3, 646
Dam and reservoir	-	9,118	500		57,078 22,000	6, 700 31, 480	947								
Dredging, river, harbor, etc			728			46	21,076		317, 175						268
Railroad Central station, light and power			2, 738		5, 547	8, 084	14, 336		5, 636						
Levee Railroad Central station, light and power plant Oil and natural gas pipe line Telephone line and system	107, 06 47, 526	130, 011	1, 152, 072 194, 948		1, 791	379, 734 8, 467, 792 	7, 039		12, 570	24, 606	72, 311 400, 920		134, 092		
Subcontractors Carpentering and wood flooring Concreting						99, 202	16, 286	24,822	30, 000	62, 482		7, 309	34, 467	35, 758	67, 471
Concreting			1,909,821	9, 762	800		500			20, 084					67, 471 2, 100 31, 029
Elevator construction	9 190 07	2 001 066	17,610	936, 020		88 282									31, 029
Heating and piping	1,411,31	153, 509			29, 483	64, 708									
Blectrical Blevator construction Heating and plumbing Heating and piping Pipe covering Piumbing Plumbing and heating com	438, 65	2, 202, 545	32, 810		29, 871	10, 554									
bined	226, 574		500			13,000									
trol	30, 73	252 400													
Automatic sprinkler systems. Masonry Painting and decorating Glass and glazing. Plastering and lathing Roofing and sheet-metal work. Roofing Sheet-metal work. Steel erection Marble and tiling Excavating.			49 009				636			42, 398				29, 875	
Glass and glazing	-		40,002				150					1,268		5, 880	7,068
Roofing and sheet-metal work.	37, 47	250						23,740							2, 659
Sheet-metal work	10,00	6 250						20, 740							
Marble and tiling		: 				940						2, 790	4, 286		13, 133
Marbie and tiling Excavating Ornamental iron Bridge and culvert				13, 673	4,000		·					9 051			1,602 1,538
Railroad		4 							[40,000						8, 342
								0				10.000	30, 181		•
KANSAS CITY				<u>`</u>	220, 957			·	344, 278	232, 820	22, 200	13, 282	3, 110	10, 911	532
Operative builders		1					100	1							
General contractors Building Building not specialized Commercial building only Manufacturing building only	17,44 9,26 3,50	0 49,410 2 39,449 6 9,961	65, 373 46, 615	269,044	626			79	314, 276	$\begin{array}{c c} 212,741 \\ 132,501 \\ 46,176 \\ 86,329 \end{array}$	22, 200 22, 200	84 84		3, 188	1 23, 129 3 6, 224 1, 105 15, 800
Residential building only Highway			16, 721		3, 569	3, 317		91, 297		39, 004				1	13,556
Bridge and culvert					1,000										
Street paving Sewer, gas, water, conduit Dam and reservoir		1	18,740		14,557 120,262	7,854	645	409				5,889			
Waterworks		9 118			57, 078	6,700 3,480									
Dredging, river, harbor, etc Railroad			2, 738		5, 547	8, 084	21, 076 14, 336		145, 178	1					
Telephone line and system										1 .	L.				
Subcontractors Concreting			463, 820		18, 018									l	15,722 2,100
Heating and plumbing Heating and piping Plumbing Plumbing and heating com- bined	. 196, 760 263, 480) 73, 666) 465, 320			17, 218 2, 251 14, 967	44, 801 2, 000									
Automatic temperature control	-	3													
***************************************		252, 492													
Automatic sprinkler systems.			10,002									1, 268			7,068
Automatic sprinkler systems. Painting and decorating Glass and glazing							1 150							lanan	
Automatic sprinkler systems. Painting and decorating Glass and glazing Plastering and lathing Roofing and sheet-metal work.								5,000							
Automatic sprinkler systems. Painting and decorating Glass and glazing								5,000				2 790	3, 116		
Automatic sprinkler systems. Painting and decorating Qlass and glazing Plastering and lathing Roofing and sheet-metal work Roofing						940		5,000				2, 790	3, 116		5,016

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TABLE 11.—COST OF MATERIAL FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929—Continued

<u> </u>				[See no	ote at her	nd of this	table]	· ·				·	а. -	1 1. ¹¹¹ - 1	
CLASSIFICATION OF ESTABLISH- MENTS	Heating and ven- tilating equip- ment	Plumbing and gas- fitting equip- ment	Electrical appliances and sup- plies	Eleva- tors, dumb- waiters, etc.	Pipe: Drain tile, vitri- fied, con- crete, etc.	Pipe: Cast iron, sheet and tube steel, etc.	cable,	Bitumi- nous paving mate- rials	piling	Ready- mixed concrete			ucts, n. e. s.	Mineral prod- ucts (non- metal- lic), n. e. s.	Miscel- laneous ³
ST. LOUIS	\$1, 638, 241	\$1, 691, 283	\$2, 709, 201	8961, 295	892, 946	83,885,922	\$28, 963	\$255, 491	\$177, 636	\$100, 081	\$470, 227	\$7, 998	\$173, 878	\$47, 921	\$89, 307
Operative builders	1,000	1,000			4, 339								935		
General contractors Building Building not specialized Commercial building only	234, 398 208, 398	39,605 12,105	5,364	1, 840 640	2,397	3, 860, 103 3, 486 3, 486	1,334	2,750	177, 636	10,895	470, 227	1, 560	141, 592	12, 163	5 805
Residential building only			3, 266					1,200		817				12,000	6, 558
Highwuy Bridge and culvert Street paving Sewer, gas, water, conduit Dredging, river, harbor, etc Levee Railroad	1				00 014	_,	100								
Levee Railroad Central station, light and power	-				1										
plant Oil and natural gas pipe line	107,063	130, 011	1, 132, 182 194, 948		1, 701	379, 734 3, 407, 792	7, 039				69, 807 400, 920		134,092		
Subcontractors Carpentering and wood flooring Electrical	5,160		1, 842, 332		35, 759	25, 810	15, 636	19,822 1,085		42, 398			31, 351	35, 758	46, 021
Elevator construction Heating and plumbing Heating and piping Pipe covering	1,219,387 1,085,148	1, 520, 667 31, 600	17,610	936, 020	35, 759 26, 305	15, 819 8, 765									31, 029
Plumbing	120, 539	1, 413, 882			9,454	7,054	[·				
Plumbing and heating com- bined Masonry	23, 707						630	18.740		42, 398				29, 878 5, 880	2. 659
Roofing	10, 000 13, 707							18, 740							2, 659
Marble and tiling				19 679							•••••		1,170		2,389 1,602
Metal work, n. e. s			25, 000			10,000	15, 000					·	30, 181		8, 342

Includes the reported cost of cast forms, beads, etc.; chemicals and chemical products, scaling materials; and textiles and caulking materials. For total cost of these items see Table 9.

na 1971 – Standard Standard, skriger og det en skriger och skriftet i Blandard för det skriftet och skriger och An standard skriger att skriger för skriger och skriger för skriger att skriger att skriger att skriger och skri An spiller att skriger att s

TABLE 12.—NUMBER OF, AND VOLUME OF BUSINESS REPORTED BY ESTABLISHMENTS DOING A CON-STRUCTION BUSINESS OF LESS THAN \$25,000 IN 1929, PERCENTAGE OF TOTAL NUMBER OF KNOWN ESTABLISHMENTS, AND AVERAGE VOLUME PER ESTABLISHMENT

		<u> </u>	1		fissour ulation,		37		193	CANSAS 10 popul 399,74	ation.	193	ST. LOU 0 popul 821,90	lation,		1NDER 0 popul 2,407,6	DF STATE ation, 61
			ontraci shmeni		Volt	ime of i	ousiness re	ported	-		ime of siness			ime of siness			ime of siness
TYPES OF WORK	Total	Inac-		ve in)29	Num- ber of re-	Per		Average	Total num- ber active	Num- ber of re-		ber active	Num- ber of re-		ber active	Num- ber of re-	
	num- ber		Num- ber	Por cent	port- ing estab- lish- ments	cent of active	Amount	per es- tablish- ment	in 1929	port- ing estab- lish- ments	Amount	in 1929	port- ing estab- lish- ments	Amount	in 1929	port- ing estab- lish- ments	Amount
Total establishments canvassed (un- der \$25,000)	1, 478	1 90	1, 388		482				267			278			843		
Total contractors, type of work unknown Total general and subcontractors	18	1	17		5	29.4	\$77, 546	\$15, 509	7 260	1	\$24, 866	4	2	\$29, 680	6 837	. 2.	\$23, 000
classified Total general contractors classified	362	89 43	1, 371 319	100.0 23.3	477 106	33. 2	1, 009, 085	9, 425	30	4	66, 221	39		61, 185	250	96	881, 679
Bullding. Highway. Bridge and oulvert. Sewer, gas, water, conduit Waterworks. Foundation	73	32 10 1	240 63 5 4 2 5	17.5 4.6 .4 .3 .1 .4	85 18 1 2	35.4 28.6 20.0 50.0	778, 631 200, 698 1, 900 27, 856	9, 160 11, 150 1, 900 13, 928	24 3 3	4	66, 221	26 12 1	4 1 1	40, 329 8, 000 12, 856	190 48 5 3 2 2	77 17 1 1	672, 081 102, 698 1, 900 15, 000
Total subcontractors classified	1, 098	46	1, 052	76. 7	371	35. 3	2, 889, 794	7, 789	230	71	689, 791	235	72	588, 810	587	228	1, 611, 193
Carpentering Concreting Electrical Elevators Heating, ventilating, and piping Masonry Painting and decorating	2 11 18	5 3 10 1 1 1 5	$100 \\ 34 \\ 206 \\ 2 \\ 10 \\ 17 \\ 118$	7.3 2.5 15.0 .1 .7 1.2 8.6	34 12 59 2 6 10 45	34.0 35.3 28.6 100.0 00.0 58.8 38.1	210, 182 46, 700 372, 173 37, 015 54, 438 77, 334 205, 169	6, 182 3, 892 6, 308 18, 508 9, 073 7, 733 4, 559		1 14 1 2 1 6	2, 500 83, 860 24, 816 8, 986 21, 718 77, 022	11 1 81 1 5 1 15	5 20 1 3 1 5	56, 730 87, 616 12, 199 25, 076 2, 262 34, 972	83 32 73 2 15 82	28 12 25 1 8 34	150, 952 46, 700 200, 697 20, 376 53, 354 93, 175
Class and glazing. Plastering. Plumbing and heating. Sheet metal and roofing. Steel erection.	3 28 402 90	1 12 3	3 27 390 87 1	$ \begin{array}{r} 2.2 \\ 2.0 \\ 28.4 \\ 6.3 \\ .1 \\ $	$1 \\ 11 \\ 142 \\ 33 \\ 33$	33. 3 40. 7 36. 4 37. 9	5, 000 52, 937 1, 346, 453 348, 774	5,000 4,813 9,482 10,569	1 3 99 25	1 34 8	8, 600 319, 745 112, 521	1 93 14 1	31 3		$2 \\ 23 \\ 198 \\ 48 \\ 48 \\ 100$	$ \begin{array}{c} 1 \\ 10 \\ 77 \\ 22 \\ \end{array} $	5, 000 44, 337 720, 971 215, 243
Stone work Marble and tiling Wrecking Excavating and grading Ornamental iron	$ \begin{array}{c} 4 \\ 22 \\ 2 \\ 11 \\ 7 \end{array} $	2	4 22 2 9 7	.3 1.6 .1 .7 .5	8 1 4 1	36. 4 50. 0 44. 4 14. 3	79, 996 3, 000 37, 965 4, 058	9, 999 3, 000 9, 491 4, 058	8 3 5	2 1	25, 965 4, 058	2 8	3	43, 208	2 6 2 6 2	5 1 2	36, 788 3, 000 12, 000
Automatic sprinkler Miscellaneous subcontractors	. 1	3	12	.1 .9	2	16.7	8, 600	4, 300	1			1			11	2	8, 600

1 Of the total inactive, 9 are in Kansas City, 13 in St. Louis, and 77 in the remainder of the State.

TABLE 13.—ESTABLISHMENTS (WHOSE BUSINESS WAS LESS THAN \$25,000 IN 1929) WHICH REPORTED THEIR VOLUME OF CONSTRUCTION WORK, CLASSIFIED BY RANGE OF VOLUME OF BUSINESS

CLASSIFICATION	Total	Less than \$2,500	\$2,500 to \$4,999	\$5,000 to \$7,409	\$7,500 to \$9,999	\$10,000 to \$12,499	\$12,500 to \$14,999	\$15,000 to \$17,499	\$17,500 to \$19,999	\$20,000 to \$22,499	\$22,500 to \$24,999
Total general and subcontractors	482	110	89	64	47	48	26	31	23	23	21
General contractors Subcontractors Type of contracting unknown	106 371 5	22 88	10 78 1	12 51 1	11 36	14 34	7 19	14 17	8 15	4 18 1	4 15 2
Type of contracting utknown	Ů		-	1 -							

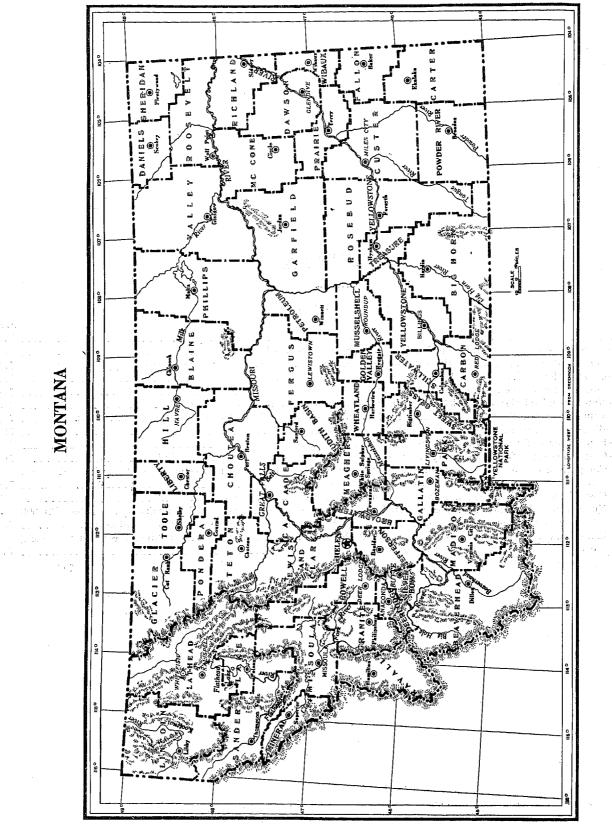
MONTANA

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classified by range of volume of business	72	20

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TABLE 1.-VALUE OF CONSTRUCTION BUSINESS DURING 1929 AND PRINCIPAL ITEMS OF EXPENDITURE

· · · · · · · · · · · · · · · · · · ·						[' · ·	1000 CAP	ressed in thousands]			·				· · · ·
			OF CONS		PRINC	IPAL EX TURES					OF CON N BUSIN		PRINCI	PAL EXI TURES	PENDI-
AREA, CLASSIFICATION OF ES- TABLISHMENTS, AND SIZE OF BUSINESS GROUPS	Num- ber of estab- lish- ments	Total	Under general con- tract or direct- ly for owner		Sub- con- tract work let	Wages paid	Cost of mate- rials	AREA, CLASSIFICATION OF ES- TABLISHMENTS, AND SIZE OF BUSINESS GROUPS	Num- ber of estab- lish- ments	Total	Under general con- tract or direct- ly for owner	Under sub- con-	Sub- con- tract work let	Wages paid	Cost of mate- rials
MONTANA	119	\$11, 423	89, 520	\$1, 903	\$1, 215	\$2, 958	\$4, 551	MONTANA-Contd.	1				1.1	÷	
Counties: Cascade Deer Lodge Flathcad Gallatin Hill Lewis and Olark Missoule Silver Bow Yellowstone Other counties ¹ Classification of establish- ments	3 4 5 7 7 16 19	5,026 420 186 168 309 447 394 1,018 2,148 627 679	4,010 420 126 101 270 382 258 792 1,958 609 585	$ \begin{array}{r} 1,007 \\ \hline 60 \\ 67 \\ 39 \\ 65 \\ 186 \\ 226 \\ 190 \\ 18 \\ 94 \\ \end{array} $	475 60 26 20 119 20 20 198 195 9 61	1, 343 90 49 37 59 117 121 235 550 176 173	$1,086 \\ 157 \\ 72 \\ 47 \\ 64 \\ 203 \\ 171 \\ 380 \\ 949 \\ 267 \\ 258 \\$	Classification of establish- ments—Continued Subcontractors—Continued. Roofing and sheet-metal work. Other classes '	4 5 27 28 14 7	\$201 303 8,821 1,047 1,566 1,898 2,037	\$37 43 1,047 1,560 1,894 2,014	4 23	\$1,215 182 189 241 240	\$70 122 2,139 263 411 505 518	\$68 99 3, 374 354 630 633 804
General contractors ¹ Building Commercial building only. Residential building only. Highway. Grading. Street paving Other classes ⁴	40 39 4 6 9 5	8,821 5,371 4,737 301 333 1,140 454 1,447 408	$\begin{array}{c} 8,703\\ 5,348\\ 4,714\\ 301\\ 333\\ 1,140\\ 450\\ 1,447\\ 408\\ \end{array}$	28 23 23 	132 125	$\begin{array}{c} 2,139\\ 1,386\\ 1,209\\ 96\\ 82\\ 226\\ 93\\ 384\\ 99\end{array}$	3, 374 2, 038 1, 824 85 129 517 23 604 193	\$1,000,000 and over Building contractors ² \$25,000 to \$49,099 \$00,000 to \$99,099 \$100,000 to \$199,900 \$200,000 to \$909,999 \$500,000 to \$909,999 \$1,000,000 and over	- 1 - 49 - 20 - 16 - 7 - 5	1,201 1,010 5,371 1,055 1,064 1,461	1,261 1,010 5,348 781 1,055 1,064 1,438 1,010	23	113 270 938 160 166 116 226 270	215 228 1,386 189 282 296 392 228	044 250 2,038 302 432 418 636 250
Subcontractors Electrical. Heating and plumbing Plumbing and piping Plumbing and heating combined Painting and decorating	45 10 22 3 9 10 4	2,602 605 1,352 167 613 573 141	728 106 432 185 59 238 50	921 32 554 335		819 160 385 40 178 161 83	1,177 281 692 90 326 277 37	Subcontractors \$25,000 to \$49,090 \$100,000 to \$109,090 \$200,000 to \$499,999 \$200,000 to \$499,999 \$500,000 to \$099,099 \$1,000,000 and over	24 16 4 1	2, 602 788 1, 060 470 285	728 202 400 128	1,875 586 660 344 285		819 257 350 144 68	1, 177 328 481 213 157

[Values expressed in thousands]

Includes Beaverhead, Big Horn, Blaine, Daniels, Dawson, Fergus, Musselshell, Park, Teton, and Valley, for which data can not be shown without rovealing individual operations. From areas other than those listed, no reports were received from establishments which handled as much as \$25,000 business during 1929.
 Includes bridge and culvert; sewer, gas, water, conduit; and foundation.
 Includes concreting; masonry; plastering and lathing; and highway.

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TABLE 2.—CONSTRUCTION BUSINESS OF REPORTING ESTABLISHMENTS DURING 1929, BY CLASS OF OWNER-SHIP AND BY TYPE OF WORK

													D. D.V
	C	ONSTRUCTION	BUS	SINESS REP	ORTE	D BY			ONSTRUCTIO:	N BU:	SINESS REP	DRTE.	
CLASS OF OWNERSHIP AND TYPE OF		l classes of blishments		neral con- ractors ¹		Subcon- tractors	CLASS OF OWNERSHIF AND TYPE OF CONSTRUCTION WORK	A. esta	ll classes of ablishments	Ge	neral con- ractors 1		ubcon- ractors
CONSTRUCTION WORK	Number reporting	Value	Number reporting	Value	Number reporting	Value		Number	Value	Number reporting	Value	Number reporting	Value
MONTANA							MONTANA-Continued						
All construction business	119 11	\$11, 423, 058 817, 411	74 7	\$8, 820, 564 679, 358	45 4	\$2, 602, 494 138, 053	All business under general con- tract or directly for owners- Continued						
Distributed by class of owner- ship Private Quasi-public or community Public Distribution not reported	92 16 59 7	10, 605, 647 5, 531, 300 576, 299 4, 498, 048 456, 653	53 9	3, 434, 836 474, 187 4, 232, 183	39 7 15	$\begin{array}{c} 2,464,441\\ 2,096,464\\ 102,112\\ 265,865\\ 100,380 \end{array}$	Distributed by class—Con. Highway and street. Public works and utilities Bridge, tunnel, etc. Flood control, irrigation, and land drainage. Sewage disposal and drain-	16 8 4	717, 550 508, 572 76, 985	7	(2) (2) (2) (2) \$76, 985	2 2 1	(2) (2) (2)
Distributed by class of pub- lic ownership	18 18 24	4, 041, 395 46, 481 1, 530, 047 1, 053, 922 1, 410, 945	3 14 16	1, 509, 747 972, 950		80, 972	age Central station, light and power plant Water supply Miscellaneous Water power development Miscellaneous n. e. 8	8 1 2 2 1	27, 692	3 1 2 1 1 1	104, 301 (2) (2) (2) (2) (2) (2) (2)	 1 	(²) (²)
All business under general con- tract or directly for owners Distribution not reported	91	9, 520, 489 673, 990	74 3	8, 792, 712 642, 495	17		All business under subcontract Distribution not reported	38	1, 902, 569 142, 664	2	(2)	36 1	(²) \$142, 664
Distributed by class Building Distribution not reported Distributed by class	- 68 5	8, 846, 499 5, 941, 578 353, 055	71 53 4 49	5, 301, 360 334, 935	15	640, 218 18, 120	Distributed by class Electrical Heating and plumbing Heating and piping Pipe covering	1 8	1,759,905 443,955 733,669 201,726		(2)	10	(2) 443, 955 733, 669 201, 726
Distributed by class Commercial		$\left. \begin{array}{c} 174, 137\\ 369, 994\\ 98, 864\\ 1, 638, 886\\ 58, 007 \end{array} \right\}$	4 3 2 3 34 2 	$\left.\begin{array}{c}1, 907, 727\\921, 325\\535, 167\\(2)\\(2)\\(2)\\1, 256, 314\\(2)\\(2)\\(2)\\(2)\\(2)\\(2)\\(2)\end{array}\right.$	$ \begin{array}{c} 6\\ 2\\ 1\\ 3\\ 1\\ (^2)\\ 1\\ 1^2\\ 1\\ 1 \end{array} $	91, 910 26, 300 8, 964 (4) 382, 572	Pipe covering Plumbing Plumbing and heating com- bined Painting and decorating Plastering and lating Roofing and sheet-metal work Roofing. Sheet-metal work Roofing and sheet metal combined Other classes ³		330, 802 188, 009 90, 446 110, 802 166, 609 49, 275 117, 334		(2)	5 3 1	7, 132 336, 802 188, 009 90, 446 110, 802 106, 609 49, 275 117, 334 (³)

Includes operative builders.
 Yalue omitted in order to avoid disclosing individual operations. The amounts omitted are, however, included in the respective totals.
 Yalue omitted in order to avoid disclosing individual operations. The amounts omitted are, however, included in the respective totals.
 Includes establishments reporting the following types of work: General contractors—Excavating, 2. Subcontractors—Concreting, 1; masonry, 1; highway, 1.

TABLE 3.—CONSTRUCTION BUSINESS DURING 1929, BY LOCATION

CLASSIFICATION OF ESTABLISH- MENTS	Establishments reporting	Total	In home city	In home State	Outside home State	CLASSIFICATION OF ESTABLISU- MENTS	Establishments reporting	Total	In home city	In home State	Outside home State
MONTANA General contractors ¹ Building not specialized ¹ Commercial building only Residential building only Highway Grading Street paving Other classes ²	69 46 37 3 6 8	\$10, 516, 149 8, 198, 646 4, 953, 307 4, 449, 022 1,70, 968 333, 317 1, 031, 052 454, 489 1, 447, 282 312, 516	5, 362, 713 4, 303, 966 3, 878, 681 91, 968 333, 317 32, 023	\$10,008,851 7,601,348 4,874,307 4,449,022 91,068 333,317 1,000,428 454,489 1,080,618 281,506	507, 298 79, 000 79, 000 30, 624 366, 664	Subcontractors Electrical Heating and plumbing Plumbing Plumbing and heating com- bined Painting and decorating	8 10	\$2, 317, 503 605, 193 1, 067, 385 166, 778 327, 589 573, 018 140, 918 200, 690 303, 308	605, 198 1, 046, 342 166, 778 308, 589 570, 975 140, 918 198, 338	1,067,385 166,778 327,589 573,018	

¹ Includes operative builders. ² Includes bridge and culvert; and sewer, gas, water, conduit; and foundation.

³ Includes concreting; masonry; plastering and lathing; and highway.

TABLE 4.--CONSTRUCTION BUSINESS OUTSIDE HOME STATE, BY LOCATION

	LOCATION RE	FORTED BY-		LOCATION REPORTED BY				
STATE	All classes of establish- ments	General contractors	STATE	All classes of establish- ments	General contractors			
MONTANA		-	MONTANA-Continued					
Total distributed by State 1	\$507, 298	\$507, 298	Total distributed by State—Continued. Washington	\$173, 033	\$173,083			
Idaho North Dakota	103, 687 120, 568	103, 687 120, 568	Wyoming. Other States, n. s	\$173, 033 31, 010 79, 000	31, 010 79, 000			

¹ Number of establishments reporting: All classes, 7; general contractors, 7.

TABLE 5.---NUMBER AND SALARIES OF PROPRIETORS, FIRM MEMBERS, AND SALARIED EMPLOYEES: 1929

		PROP	RIETORS	S AND FIRM BERS	SALARIED EMPLOYEES											
CLASSIFICATION OF ESTABLISHMENTS	Estab- lish- ments report-	Re-		Receiving salaries		alaried em- ployees	Officer	s and clerical staff		rintendents, emen, etc.	Number reported, by sex			Sex		
	ing	ceiving no salary		Total annual salaries	Total num- ber	Total annual salaries	Num- ber	Total annual salaries	Num- ber	Total annual salaries	Total	Male	Fe- male	re- port- ed		
MONTANA	114	89	36-	\$120, 218	148	\$309, 524	85	\$178, 127	63	\$131, 397	189	114	25	9		
General contractors ¹ Building Building not specialized ¹ Commercial building only Residential building only Highway Grading Street paving Other classes ²	70 47 38 3 6 8 5 5 5 5	67 46 37 8 6 7 2 7 5	10 5 5	45, 534 36, 374 36, 374 9, 160	97 44 32 9 3 16 9 18 10	221, 492 85, 658 73, 044 7, 600 5, 014 43, 219 19, 800 63, 399 9, 416	39 14 12 2 8 5 5 7	$101,005 \\18,000 \\15,300 \\3,600 \\24,619 \\15,400 \\39,000 \\3,170 \\$	58 30 20 7 3 8 4 13 3	$\begin{array}{c} 120, 397\\ 66, 758\\ 57, 744\\ 4, 000\\ 5, 014\\ 18, 600\\ 4, 400\\ 24, 309\\ 6, 240\\ \end{array}$	90 44 32 9 3 15 9 12 10	81 39 27 9 3 15 9 12 6	9 5 5 	7		
Subcontractors. Electrical Heating and plumbing. Plumbing Plumbing and heating combined. Painting and decorating. Roofing and sheet-metal work. Other classes ³	$44 \\ 10 \\ 21 \\ 9 \\ 12$	$22 \\ 4 \\ 10 \\ 4 \\ 6 \\ 2 \\ 2 \\ 4 \\ 4$	$26 \\ 3 \\ 15 \\ 0 \\ 1 \\ 4 \\ 3$	74, 684 7, 355 44, 847 25, 092 19, 755 2, 387 10, 227 9, 868	51 22 26 13 13 13 1 1 1	88, 032 46, 065 37, 619 17, 353 20, 206 1, 080 468 2, 800	46 21 23 13 10 1 1	$\begin{array}{c} 77,032\\ 43,985\\ 31,490\\ 17,383\\ 14,146\\ 1,080\\ 468\end{array}$	5 1 3 1	11,000 2,080 6,120	49 22 24 13 11 1 1 1		16 7 8 4 4	2		

Includes operative builders.
 Includes bridge and culvert; sewer, gas, water, conduit; and foundation.
 Includes concreting; masonry; plastering and lathing; and highway.

TABLE 6.—VALUE OF CONSTRUCTION EQUIPMENT, IN COMPARISON WITH CONSTRUCTION BUSINESS AND WAGES PAID DURING 1929

CLASSIFICATION OF ESTABLISH- MENTS AND PERCENTAGE OF EQUIPMENT OWNED MONTANA—Continued.	Wages paid
MENTS AND PERCENTAGE OF ments Pur- LEQUIPMENT OWNED For- ing the year year reported reported for the sear year year for the sear year year we have the sear year year we have the sear year year year year year year year y	Wages paid
MONTANA-Continued	
Percentage of equipment owned	1.1
General contractors 1	, 982, 960 7, 019
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	6, 440 72, 678 512, 372 , 350, 193 34, 258
Subcontractors	607,966
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	28, 603 75, 103 499, 000 5, 200
	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

Includes operative builders.
 Includes bridge and cuivert; sewer, gas, water, conduit; and foundation.
 Includes concreting; masonry; painting and decorating; plastering and lathing; and highway.

TABLE 7.-WAGE EARNERS, BY MONTHS, AND WAGES PAID DURING 1929

	Estab- lish-	N	UMBER 1	EMPLOYE	D ON 15	TH DAY	OF THE I	MONTH C	R NEAR	EST REPI	RESENTA	TIVE DAY	 7	Wages
CLASSIFICATION OF ESTABLISHMENTS AND LENGTH OF WORKING WEEK	ments report- ing	Janu- ary	Febru- ary	March	April	May	June	July	August	Sep- tember	Octo- ber	No- vember	Decem- ber	paid during year
MONTANA	105	832	801	908	1, 204	1, 549	1, 853	2, 063	2, 089	2, 099	1, 801	1,415	1, 048	\$2, 618, 622
Classification of establishments General contractors ¹ Building Commercial building only Residential building only Highway Grading Street paving Other classes ²	44 35 4 5 7 4 6 4	$\begin{array}{c} 564\\ 446\\ 410\\ 29\\ 7\\ 51\\ 6\\ 56\\ 5\\ 5\end{array}$	545 421 389 22 10 52 3 62 7	$\begin{array}{c} 622 \\ 445 \\ 410 \\ 21 \\ 14 \\ 90 \\ 5 \\ 66 \\ 10 \end{array}$	890 601 547 27 27 127 22 91 49	1,20674167836272016315051	1, 491 959 890 41 28 191 75 190 76	1, 699 1, 091 974 92 25 248 93 169 98	$1,703 \\ 1,003 \\ 857 \\ 119 \\ 27 \\ 302 \\ 98 \\ 193 \\ 107$	$1, 694 \\ 972 \\ 779 \\ 166 \\ 27 \\ 274 \\ 104 \\ 245 \\ 99$	1, 374 851 713 118 20 186 99 135 103	1,002 691 611 60 20 133 70 39 69	665 566 492 57 17 57 5 19 18	$\begin{matrix} 1, 802, 048\\ 1, 215, 500\\ 1, 071, 116\\ 05, 674\\ 48, 710\\ 172, 660\\ 85, 952\\ 334, 426\\ 83, 510 \end{matrix}$
Subcontractors Electrical Heating and plumbing Plumbing Plumbing and heating combined Plumbing and heating combined Roong and sheet-metal work Other classes ⁸	9 20 3 9 8 3	268 47 150 17 79 54 19 35 17	256 39 140 73 51 24 26 27	284 43 140 18 68 54 28 34 39	814 49 139 23 64 52 44 39 43	343 52 170 28 80 62 37 37 47	362 57 173 27 83 63 38 40 54	364 53 194 23 92 79 33 40 44	386 55 201 27 94 80 36 43 51	405 52 218 24 117 77 35 38 62	427 55 211 28 101 82 38 42 81	418 53 201 22 102 77 87 40 82	383 53 185 22 96 67 27 40 78	$\begin{array}{c} 726,574\\ 122,073\\ 367,317\\ 45,906\\ 178,282\\ 143,039\\ 66,711\\ 69,749\\ 100,724 \end{array}$
Length of working week General contractors 1 40-hour, 5-day week	4	564 22	545 15	622 21	890 29	1, 206 42	1, 491 51	1,699 92	1,703 110	1,694 100	1, 374 92	1,002 69	665 59	1, 892, 048 117, 769
45-hour, 5-day week	1 25	1 129	1 126	3 142	10 217	9 275	11 490	13 587	9 497	10 570	15 534	5 442	8 375	12, 092 605, 678
55-hour, 5/4-day week All other 5/4-day week 48-hour, 6-day week 54-hour, 6-day week 60-hour, 6-day week	23 1 5	350 7 12	327 8 18	348 16 15	493 9 26	695 9 66	714 11 68	703 10 91	717 9 121	687 10 98	475 10 95	302 7 72	163 5	928, 007 14, 547 80, 001
All other 6-day wook All other not designated Not reported Subcontractors	3 2	32 11 268	38 12 256	65 12 284	85 21 814	6 83 21 343	8 105 33 362	8 146 49 364	8 181 51 386	8 161 50 405	96 57 427	74 31 413	45 15 383	4, 050 71, 267 58, 637 726, 574
40-hour, 5-day week 45-hour, 5-day week 50-hour, 5-day week All other 5-day week	7	53	45	51 	49	55	65	67	69	60	72	60	63	141, 475
44-hour, 5½-day week 49½-hour, 5½-day week 55-hour, 5½-day week 411 other 5½-day week	20	163	140	101	170 	194	200	201	209	236	243	249	237	436, 951
AB-hour, 6-day week 54-hour, 6-day week 60-hour, 6-day week All other 6-day week	. 11	36	51	54	68	71	74	75	84	87	86	82	66	113, 022
All other not designated Not reported	1	9 7	13 7	11 7	20 7	16 7	14 9	12 9	14 10	15 7	19 7	15 7	10 7	19,000 16,126

Includes operative builders.
 Includes bridge and culvert; sewer, gas, water, conduit; and foundation.
 Includes concreting; masonry; and plastering and lathing.

TABLE 8.-EXPENDITURES OF REPORTING ESTABLISHMENTS: 1929

		1												
			PRINCIPAL	ITEMS OF EX	PENDITURE		OTHER ITEMS OF EXPENDITURE							
	Estab- lish-	Value of construc-				Sal	aries	Rentf	or		Con-	Com- pensa-	All	
CLASSIFICATION OF ESTABLISHMENTS	ments report- ing	tion busi- ness reported	Subcon- tract work let	Wages paid	materials	Proprie- tors and firm mem- bers	Employ- ees	Equip- ment	Offices, etc.	Interest	tract bond pre- miums	tion and liability insur- ance pre- miums		
MONTANA	95	8, 519, 699	1, 122, 000	\$2, 160, 589	88, 374, 941	\$120, 218	8192, 596	835, 114	833, 611	\$27, 920	842, 623	\$38, 078	\$447, 692	
General contractors ¹ Building Building not specialized ¹ Commercial building only Residential building only Highway Grading Other classes ²		1, 016, 073 303, 365 651, 339	1,122,000 876,000 63,000 53,000 132,000 111,000 3,000	$1, 413, 750 \\1, 018, 182 \\906, 501 \\29, 971 \\81, 710 \\193, 660 \\45, 236 \\156, 672$	2, 321, 753 1, 537, 019 1, 358, 294 49, 859 128, 866 474, 431 4, 720 305, 583	45, 534 36, 374 36, 374 	68, 638 60, 324 3, 300 5, 014 26, 990 1, 200 17, 516	29, 109 3, 914 3, 747 167 8, 431 14, 346 2, 418	5, 959 4, 659 4, 539 120 576 724	19, 045 7, 863 7, 087 616 160 7, 332 768 3, 082	40, 301 21, 256 20, 936 320 11, 252 2, 400 5, 483	28, 266 18, 441 16, 027 401 1, 413 4, 943 825 4, 057	293, 824 69, 836 64, 541 1, 439 3, 866 105, 274 70, 359 48, 355	
Subcontractors. Electrical Heating and plumbing. Heating and piping Plumbing. Plumbing and heating combined. Painting and decorating. Roofing and sheet-metal work. Other classes ³ .		166,778 612,580 440,518 140,918 200,699		$\begin{array}{c} 746,839\\ 154,618\\ 350,400\\ 45,996\\ 178,282\\ 126,122\\ 82,711\\ 69,749\\ 89,361 \end{array}$	$\begin{matrix} 1, 053, 188\\ 264, 328\\ 626, 929\\ 89, 864\\ 325, 530\\ 211, 535\\ 36, 728\\ 67, 692\\ 57, 511 \end{matrix}$	74, 684 7, 355 44, 847 25, 092 19, 755 2, 387 10, 227 9, 868	78, 252 46, 065 27, 839 1, 200 17, 353 9, 286 1, 080 468 2, 800	4, 005 230	27, 652 6, 465 16, 636 2, 400 6, 811 7, 425 1, 620 2, 651 280	8,875 2,961 5,471 555 2,913 2,003 188 255	2, 232 692 1, 353 828 525 187	9,812 1,711 3,519 213 2,090 1,210 1,315 1,196 2,071	153,868 49,052 81,055 10,961 40,537 29,557 6,384 7,618 9,759	

Includes operative builders.
 Includes bridge and culvert; street paving; sewer, gas, water, conduit; and foundation.
 Includes concreting; plastering and lathing; and highway.

TABLE 9.—COST OF MATERIALS FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929, BY KIND

	cos	TOFM	TATERIAL	S REPORTED	вч		COST OF MATERIALS REPORTED BY							
	All classes of estab- lishments						All clas lis	ses of e iments						
KIND OF MATERIAL	Amount	Per cent dis- tribu- tion	Per \$1,000 con- struc- tion work done ¹	General contrac- tors ²	Subcon- tractors	KIND OF MATERIAL	Amount	Per cent dis- tribu- tion	Per \$1,000 con- struc- tion work done ¹	General contrac- tors ²	Subcon- ractors			
MONTANA						MONTANA-Continued								
All kinds of material Distribution not reported		44.7	8445, 82	\$3, 374, 040 1, 435, 582	\$1, 176, 845 500, 466	Distributed by kind—Contd. Composition board Water proofing materials	\$21, 809 5, 434	0.9	\$3.87 96	\$21, 484 5, 434	\$325			
Distributed by kind Sand, gravel, stone, slag, cinders, etc.	1 232.460		41. 19	1, 938, 458 229, 460	577, 379 3, 000	Hardware, rough and finished Paints, varnishes, glass. Roofing and sheet metal	61 040	2.5 2.2 2.9	10.98 9.62	61, 919 17, 558	30 36, 728 42, 198			
Brick (face, common, fire, pav- ing, etc.) Tile (fireproofing) Tile, facing, terra cotta, floor	1 11 858	8.6 .5	29.30 2.06	138, 360 11, 656	27,000	Finished flooring (other than cement, wood, or tile) Screens, shades, awnings, etc	10, 735 2, 547	2.9 .4 .1	12, 88 1, 90 , 45	30, 511 10, 735 2, 547	42, 193			
Tile, facing, terra cotta, floor and wall Concrete and cinder block Cut stone, granite and marble	17,018	1.8 .5 .7	8.07 2.07 3.01	89, 036 11, 661 16, 018	6, 500 1, 000	Heating and ventilating equip- ment	142, 582	5.7	25, 26	17, 847	124, 735			
Cement Lime Plaster, etc Structural steel	245,061	³ 9.7 1.3 1.5	43.43 5.79 6.49	242, 254 20, 041 27, 773	2, 807 3, 650 8, 848	mont Electrical appliances and sup- plies	173, 658 188, 491	6.9 7.5	30. 77 33. 40	31, 078 17, 372	142, 580 171, 119			
Reinforcing steel Cast-iron, miscellaneous, ex-		6.6 1.7	20. 22 7, 71	164, 222 43, 506	657	Elevators, dumb-waiters, and equipment	25, 599	1.0	4, 54	25, 599	-			
cluding pipe. Metal doors, windows, and frim	2, 651 34, 231	1.4	. 47 6. 07	2, 451 34, 181	200 50	crete, segment tile, corrugated. Pipe: Cast-iron, sheet and tube steel, etc.	33, 425 3, 472	1.3	5.92	31, 625 1, 472	1, 800 2, 000			
Metal and wire lath and furring. Ornamental metal work.	1 10.641	.4	1.89 2.23	8, 541 12, 614	2, 100	Wire cable, guards, and fencing Bituminous paving materials, tar, asphalt, and oil	100	(⁴) ¹	. 02 1. 80	100	2,000			
Lumber, rough and finished Lath, shingles, and shakes	446, 122		79.06	446, 122		Wood piling and timber	5, 000	.2	. 89	5,000				
(wood) Millwork	16, 834 130, 603	.7 5.2	2, 98 23, 14	16, 782 130, 603	52	Metal products, n. e. s. (includ- ing metal furniture) Miscellaneous	1, 280 42, 469	1.7	, 23 7, 53	1, 280 42, 469				

¹ The value of construction work done is obtained from figures presented in Table 1, by subtracting the value of subcontract work let from the total value of construction business.
 ² Includes operative builders.
 ³ The high percentage of total cost shown for this item is due to the fact that establishments located within this area reported that the major part of their construction work (on which this material was used) was done on contract outside the home city or State.
 ⁴ Less than one-tenth of 1 per cont.

CONSTRUCTION-MONTANA

TABLE 10.—COMPARISON OF COST OF DESIGNATED MATERIALS FURNISHED AND USED BY REPORT-ING ESTABLISHMENTS DURING 1929, WITH COST OF MATERIALS AND VALUE OF CONSTRUCTION BUSINESS

[Based exclusively upon reports of establishments which gave the distributed cost of materials]

		COST OF	DESIGN TERIAL			Indi- cated			COST OF MA	DESIGN ATERIAI			Indi- cated per
KIND OF MATERIAL AND CLASSI-	Cost of all materials		Per ce	nt of—	Value of construc-	per cent of all busi	KIND OF MATERIAL AND CLASSI-	Cost of all materials		Per ce	nt of—	Value of construc-	cent of all busi-
FICATION OF ESTABLISHMENTS	distributed by kind	Amount	Total cost	Cost of all distributed materials	tion business	done by own force 1	FICATION OF ESTABLISHMENTS	distributed by kind	Amount	Total cost	Cost of all distributed materials	tion business	ness done by own force 1
MONTANA							MONTANA-Continued						
Sand, gravel, slag, stone, cinders, etc. ²							Lumber, rough and finished						
All classes		\$232, 460	100.0	9.2	\$6, 357, 414	89.4	All classes	\$\$2,515,837	\$446, 122	100. 0	17, 7	10\$6,357,414	89.4
General contractors ⁵ Building Commercial building only. Residential building only. Highway Bridge and culvert Grading Street paving Sewer, gas, water, conduit Foundation	58, 938 77, 640 47, 300 18, 157 294, 104	$\begin{array}{c} 229, 460\\ 114, 637\\ 106, 105\\ 8, 477\\ 5, 055\\ 33, 123\\ 9, 000\\ 10, 255\\ 55, 868\\ 229\\ 6, 348 \end{array}$	98.7 49.3 45.6 1.5 2.2 14.2 3.9 4.4 24.0 .1 2.7	$11.8 \\ 7.9 \\ 7.8 \\ 10.0 \\ 8.6 \\ 42.7 \\ 19.0 \\ 56.5 \\ 19.0 \\ .9 \\ 24.1 \\ 100 \\ .9 \\ 24.1 \\ 100 \\ .9 \\ 24.1 \\ 100 \\ .9 \\ .9 \\ .9 \\ .9 \\ .9 \\ .9 \\ .9 \\ $	$\begin{array}{c} 5,108,874\\ 3,751,217\\ 3,525,214\\ 85,068\\ 140,035\\ 252,463\\ 93,000\\ 151,124\\ 738,978\\ 68,817\\ 51,275\end{array}$	86, 2 82, 5 82, 6 79, 1 84, 1 88, 4 100, 0 72, 5 98, 6 100, 0 100, 0	General contractors ³ Building Commercial building only. Residential building only. Highway Bridge and culvert. Grading Street paving Sewer, gas, water, conduit Millicork	1, 448, 127 1, 354, 330 34, 859 58, 938 77, 640 47, 300 18, 157	446, 122 392, 379 354, 435 6, 364 31, 580 21, 550 10, 500 2, 982 17, 193 1, 518	100. 0 88. 0 79. 4 1. 4 7. 1 4. 8 2. 4 . 7 3. 9 . 3	23. 0 27. 1 26. 2 18. 3 53. 6 27. 8 22. 2 16. 4 5. 8 5. 7	⁵⁵ , 108, 874 3, 751; 217 3, 525, 214 85, 968 140, 035 252, 463 95, 000 151, 124 738, 978 68, 817	86, 2 82, 5 82, 6 79, 1 84, 1 88, 4 100, 0 72, 5 98, 6 100, 0
Subcontractors Masonry	41,657	3,000 1,500	1.3 .6	3.6	⁵ 1,248, 540 89, 392	100.0 100.0	All classes		130, 603	100. 0	5,2	100,357,414	89.4
Plastering and lathing Brick (face, common, fire, paving, etc.)		1,500	. 6	10.7	79, 345	100.0	General contractors ³ Building Building not specialized ³ Commercial building only. Residential building only.	4 1,938,458 1,448,127 1,354,330 34,859	$130, 603 \\129, 103 \\122, 947 \\3, 156 \\000$	$ \begin{array}{r} 100.0 \\ 98.9 \\ 94.1 \\ 2.4 \\ \end{array} $	8,9 9,1 9,1	\$ 5,108,874 3,751,217 3,525,214 85,968	86, 2 82, 5 82, 6 79, 1
All classes	I	165, 360	100.0	6.6 7.1	6, 357, 414	89.4	Highway Bridge and culvert	58, 938 77, 640 47, 300	3,000 500 1,000	2.3 .4 .8	5.1 .6 2.1	140, 035 252, 463 95, 000	84.1 88.4 100.0
General contractors ³ Building Commercial building only Residential building only Street paying Sewer, gas, water, conduit	$\begin{array}{c} 1,936,408\\ 1,448,127\\ 1,354,330\\ 34,859\\ 58,938\\ 294,104\\ 26,782\end{array}$	138, 360 136, 766 132, 917 849 3, 000 742 852	83.7 82.7 80.4 .5 1.8 .4 .5	9.4 9.8 2.4 5.1 3.2	5,108,874 3,751,217 3,525,214 85,968 140,035 738,978 68,817	$\begin{array}{r} 86.2\\ 82.5\\ 82.6\\ 79.1\\ 84.1\\ 98.6\\ 100.0 \end{array}$	Hardware, rough and finished All classes	2, 515, 837	61, 949	100.0	2.5	6, 357, 414 5,108, 874	80.4
Subcontractors	4 577, 379	27, 000 27, 000	16, 3	4.7	\$ 1,248, 540	100.0	General contractors ³ Building Building not specialized ³	1.354.330	56, 476 53, 441	91, 2 86, 3	3.2 3.9 3.9	3,751,217 3,525,214	86. 2 82, 5 82, 6
Masonry Tile, facing, terra cotta, floor, and wall	41, 657	27,000	16, 3	64.8	89, 392	100. 0	Commercial building only Residential building only Highway Street paving Sewer, gas, water, conduit	34,859 58,938 77,640	1, 210 1, 825 2, 000 2, 493 950	2.0 2.9 3.2 4.0 1.5	3.5 3.1 2.6 .8 3.5	85, 968 140, 035 252, 463 738, 978 68, 817	79.1 84.1 88.4 98.6 100.0
All classes		45, 536	100.0		7 6,357,414	89.4	Subcontractors	4 577, 379	30	(5)		^{\$} 1,248, 540	100.0
General contractors Building Building not specialized	* 1,884,894 * 1,394, 563 1, 300, 766	39, 036 39, 036 39, 036	85.7 85.7 85.7	2.1 2.8 3.0	5,000, 074 3,642, 417 3, 416, 414	86, 4 82, 8 83, 0	Plastering and lathing Paints, varnishes, glass	13, 980	30	(⁸)	.2	79, 345	100, 0
Subcontractors Masonry	4 577, 379 41, 657	6, 500 6, 500	14.3 14.3	$\begin{array}{c}1.1\\15.6\end{array}$	1,248,540 89,392	100.0 100.0	All classes		54, 286	100.0		7 6,357,414	89.4
Cement ² All classes	2, 515, 837	245, 061	100. 0	9.7	6, 357, 414	89.4	General contractors Building Building not specialized Commercial building only Residential building only	$1, 394, 563 \\1, 300, 766 \\34, 859 \\58, 938$	$17,558 \\ 15,558 \\ 13,201 \\ 1,357 \\ 1,000 \\ 1$	32.3 28.7 24.3 2.5 1.8	1.1 1.0 3.9 1.7	5 5,000,074 3,642,417 3,416,414 85,968 140,035	86.4 82.8 83.0 79.1 84.1
General contractors ³ Building Building not specialized ³ Commercial building only. Highway	1,938,458 + 1,448,127 1,354,330 34,859 77,640	$242, 254 \\129, 706 \\124, 621 \\5, 085 \\6, 000$	98, 9 52, 9 50, 9 2, 1 2, 4	9,2	5, 108, 874 5 3,751, 217 8, 525, 214 85, 968 252, 463	86.2 82.5 82.6 79.1	Street paving Subcontractors Painting and decorating	294, 104 4 577, 379 36, 728	2, 000 36, 728 36, 728	3.7 67.7 67.7	.7 6.4 100.0	738,978 5 1,248,540 140,918	98, 6 100, 0 100, 0
Bridge and culvert Grading Street paving	47,300 18,157	12,800	5.2 2.0	7.7 27.1 27.1	95,000 151,124	88.4 100.0 72.5	Roofing and sheet metal All classes	2, 515, 837	72, 709	100. 0	2.9	6, 357, 414	89.4
Sewer, gas, water, conduit Foundation	294, 104 26, 782 26, 348 4 577, 379	2, 827 75, 927 851 12, 050 2, 807	31. 0 . 3 4. 9 1. 1	25.8 3.2 45.7	738, 978 68, 817 51, 275 \$ 1,248, 540	98. 6 100. 0 100. 0	General contractors ³ Building Building not specialized ³ Commercial building only	4 1,938, 458 4 1,448, 127 1, 354, 330 34, 859	30, 511 30, 511 28, 732 1, 779	42. 0 42. 0 39. 5 2. 4	1.6 2.1 2.1 5.1	⁵ 5,108,874 ⁸ 3,751,217 3,525,214 85,968	86.2 82.5 82.6 79.1
Masonry Plastering and lathing Roofing and sheet metal work Roofing and sheet-metal	41, 657 4 13, 980 4 37, 692	1, 500 1, 300 7	.6 .5 (*)	3.6 9.3 (*)	5 1,248, 540 89, 392 79, 345 5 90, 161	100, 0 100, 0 100, 0	100.0 Commercial building only. 100.0 Subcontractors. 100.0 Heating and plumbing. 100.0 Heating and plumbing.		42, 198 4, 763 2, 740	58.0 6.6 3.8	7.3 1.8 3.0	⁵ 1,248, 540 ⁵ 463, 780 166, 778	100. 0 100, 0 100, 0
combined	10, 966	7	(8)	.1	32, 181	100, 0	Plumbing Roofing and sheet-metal work Sheet-metal work	137, 079 37, 692	2, 023 37, 435	2.8 51.5	1.5 99.3	236, 622 90, 161	100. 0 100. 0
Structural steel All classes	2, 515, 837	164, 879	100. 0	6.6	6, 357, 414	89.4	Sheet-metal work Roofing and sheet metal combined	26, 726 10, 966	26, 726	36.8	100, 0	57, 980	100. 0
General contractors ⁸ Building	+ 1,938, 458	164, 222 76, 113 72, 843	99, 6 46, 2 44, 2	8.5	5,108,874 3,751,217 3,525,214	86. 2 82. 5 82. 6	Heating and ventilating equipment		10, 709	14.7	97.7	32, 181	100.0
Commercial building only. Bridge and culvert Street paving	34, 859 47, 300 294, 104	3, 270 6, 000 82, 109	2.0 3.6 49.8	9.4 12.7 27.9	85, 968 95, 000 738, 978	79, 1 100, 0 98, 6	Al lclasses General contractors Building	11.884.894	142, 582 17, 847 16, 041	100.0 12.5 11.3	, 9	7 6,357,414 5 5,000,074 5 8,642,417	89.4 86.4 82.8
Subcontractors Masonry	4 577, 379 41, 057	657 657	.4	1	1,248, 540 89, 392	100, 0	Building Building not specialized Residential building only Street paving	58,938	16, 041 14, 041 2, 000 1, 806	11. 3 9. 8 1. 4 1. 3	1.2 1.1 3.4 .6	8,642,417 3,416,414 140,035 738,978	83. 0 84. 1

See footnotes at end of table.

CONSTRUCTION-MONTANA

TABLE 10.—COMPARISON OF COST OF DESIGNATED MATERIALS FURNISHED AND USED BY REPORT-ING ESTABLISHMENTS DURING 1929, WITH COST OF MATERIALS AND VALUE OF CONSTRUCTION BUSINESS—Continued

[Based exclusively upon reports of establishments which gave the distributed cost of materials]

		COST OF	DESIGN TERIAL		Value of cent				COST OF	DESIGN TERIAL			Indi- cated per
KIND OF MATERIAL AND CLASSI-	Cost of all materials		Per ce	nt of—	construc-	cent of all busi-	KIND OF MATERIAL AND CLASSI-	Cost of all materials		Per cer	ıt of—	Value of construc-	cent of all busi-
FICATION OF ESTABLISHMENTS	distributed by kind	Amount	Total cost	Cost of all distributed materials	tion business	ness done by own force 1	FICATION OF ESTABLISHMENTS	distributed by kind	Amount	Total cost	Cost of all distributed materials	tion business	ness done by own force ¹
MONTANA—Continued Heating and ventilating equipment—Continued							MONTANA—Continued Plumbing and gas-fitting equipment—Continued				- 		
equipment—Continued Subcontractors Electrical Heating and plumbing Plumbing Plumbing and heating combined	189.054	\$124, 735 12, 180 112, 555 67, 124 29, 931 15, 500	87.5 8.5 78.9 47.1 21.0 10.9	21. 6 6. 4 43. 0 74. 7 21. 8 49. 5	⁵ \$1,248,540 384, 944 463, 780 166, 778 230, 632 60, 380	100, 0 100, 0 100, 0 100, 0 100, 0 100, 0	Subcontractors Electrical. Heating and plumbing Plumbing Plumbing and heating combined Electrical appliances and	4 \$577, 379 189, 054 258, 268 80, 864 137, 079 31, 325	\$142, 580 8, 660 133, 920 20, 000 98, 420 15, 500	82.1 5.0 77.1 11.5 56.7 8.9	24.7 4.6 51.9 22.3 71.8 49.5	⁵ \$1,248,540 384, 944 463, 780 166, 778 236, 622 60, 380	100, 0 100, 0 100, 0 100, 0 100, 0 100, 0
Plumbing and gas-fitting equipment							supplies All classes		188, 491	100. 0	7.5	6, 857, 414	89.4
All classes	⁶ 2,515, 837	173, 658	100.0	6.9	7 6,357, 414	89.4	General contractor ³ Building. Building not specialized ³ .	4 1,938,458 4 1,448,127 1,354,330	17,372 10,562 8,862	9, 2 5, 6 4, 7	.9.7	⁵ 5,108,874 ⁵ 3,751,217 3,525,214	86.2 82.5 82.6
General contractors. Building Building not specialized Commercial building only Residential building only. Street paving	1 204 563	$\begin{array}{r} 31,078\\ 26,589\\ 23,513\\ 76\\ 3,000\\ 4,489\end{array}$	17. 9 15. 3 13. 5 (⁶) 1. 7 2. 6	$1.0 \\ 1.9 \\ 1.8 \\ .2 \\ 5.1 \\ 1.5$	⁵ 5,000, 074 3, 642, 417 3, 416, 414 85, 968 140, 035 738, 978	86. 4 82. 8 83. 0 79. 1 84. 1 98. 6	Building not specialized ¹ . Residential building only. Street paving Subcontractors Electrical. Heating and plumbing Plumbing.	1, 354, 330 58, 938 294, 104 4 577, 379 189, 054 4 258, 268 137, 079	6, 302 1, 700 0, 810 171, 119 168, 214 2, 905 2, 905	$ \begin{array}{r} 4.7\\.9\\.8.0\\90.8\\89.2\\1.5\\1.5\\1.5\end{array} $	2,9 2,3 29,6 89,0 1,1 2,1	5, 525, 214 140, 035 738, 978 5 1,248, 540 384, 944 5 463, 780 236, 622	82. 6 84. 1 98. 6 100. 0 100. 0 100. 0 100. 0

Based upon the difference between the total value of all construction business reported and the value of subcontract work let.
See footnote 3 of Table 9 on p. 717.
Includes cost of materials reported by establishments which did not include the designated material in their distributed lists.
Includes cost of materials reported by establishments which did not include the designated material in their distributed lists.
Includes cost of materials reported by operative builders which did not include the designated material in their distributed lists.
Includes cost of materials reported by operative builders who did not include the designated material in their distributed lists.
Includes construction work reported by operative builders who did not include the designated material in their distributed lists.
Includes construction work reported by operative builders who did not include the designated material in their distributed lists.
Includes construction work reported by operative builders who did not include the designated material in their distributed lists.
Includes construction work reported by subcontracting establishments which did not include the designated material in their distributed lists.
Includes construction work reported by subcontracting establishments which did not include the designated material in their distributed lists.
Includes construction work reported by subcontracting establishments which did not include the designated material in their distributed lists.

TABLE 11.-COST OF MATERIAL FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929

CLASSIFICATION OF ESTABLISHMENTS	'Total cost of all materials ¹		D BY	Sand, gravel, crushed stone, slag, cinders, etc.	Brick (face, com- mon, fire, paving, etc.	Tile (fire- proof- ing)	Tile, facing, terra cotta, floor and wall	Con- crete and cinder block	Cut stone, granite and mar- ble	Cement	Linie	Plas- ter, etc.	Struc- tural steel	Rein- forc- ing steel	doors, win- dows, and	wire
MONTANA	\$4, 550, 885	\$2, 515, 897	55. 3	² \$232,460	\$165, 360	811, 656	845, 536	\$11, 661	\$17, 018	2 \$245,061	\$32, 691	\$36, 621	\$164, 879	\$43, 506	834, 231	810, 641
Operative builders	53, 564	53, 564	100.0	355	2, 700					760	225	819	160			
General contractors Building not specialized Commercial building only Residential building only Highway Bridge and colvert Grading Street paying Sewer, gas, water, conduit Foundation	1, 770, 252 84, 859 128, 866 516, 765 131, 228	$\begin{array}{c} 1, 394, 563\\ 1, 300, 766\\ 34, 859\\ 58, 938\\ 77, 640\\ 47, 300\\ 18, 157\\ 294, 104\\ 26, 782\end{array}$	70, 3 73, 5 41, 1 45, 7 15, 0 36, 0 70, 4 48, 7 75, 3	114, 282 105, 750 3, 477 5, 055 33, 123 9, 000 10, 255 55, 868 229	3, 000	11, 656 10, 529 1, 127	39, 036	1, 661 10, 000	10, 018	5, 085 6, 000 12, 800 4, 920 75, 927 851	20, 821 20, 581 240 	26, 954 23, 533 21 3, 400	72, 683 3, 270 6, 000 82, 109	20, 197 16, 562 3, 635 2, 634 8, 000 12, 675	34, 181 33, 501 680	7,714 400
Subcontractors Electrical	³ 1, 176, 845 281, 328	189,054	49, 1 67, 2 37, 3	3, 000	27, 000		6, 500		1, 000		3, 650	8, 848			50	2, 100
Plumbing and heating com- bined Masonry- Platting and decorating- Plastering and lathing Roofing and sheet-metal work Sheet-metal work Roofing and sheet-metal com-	13, 980 67, 692 56, 726	31, 325 41, 657 36, 728 13, 980 37, 692 26, 726	$ \begin{array}{c} 11.3\\ 100.0\\ 100.0\\ 100.0\\ 55.7\\ 47.1\\ 100.0\\ \end{array} $	1, 500	27, 000					1, 3 00 7	150	8, 848	657			
bined	10, 966	10, 966	100.0												Ň	

¹ Certain establishments did not give a distribution of the cost of their materials by separate items. The total cost of materials reported by such establishments is, however, included in totals in this column which carry a footnote to that effect.
 ³ See footnote 3 of Table 9 on p. 717.
 ⁴ Includes concreting, \$18,631; highway, \$25,000.

		•															
CLASSIFICATION OF ESTABLISHMENTS	mental metal	Lumber, rough and finished	Laths, shin- gles, and shakes	Mill- work	tion	ter-	ware,	Paints, var- nishes, and glass	Roof- ing and sheet metal	Fin- ished floor- ing, n. e. s.	venti- lating	Plumb- ing and gas- fitting equip- ment	Elec- trical appli- ances and sup- plies	Eleva- tors, dumb- wait- ers, etc.	Pipe: Drain tile, vitri- fied, con- crete, etc.	Bitu- mi- nous paving mate- rials	Mis- cella- neous
MONTANA	\$12, 614	\$446, 122	\$16, 834	\$130, 603	\$21, 809	\$5, 434	\$61, 949	\$54, 286	\$72, 709	\$10,785	\$142, 582	\$173, 658	\$188, 491	\$25, 599	\$33, 425	\$10, 147	\$57, 519
Operative builders							-						2, 200				1, 520
General contractors Building	12, 614	428, 247		113, 398 111, 898 105, 742				17,558 15,558 13,201 1,357	29, 711 29, 711 27, 932 1, 779	9, 955 9, 955 9, 225 200	16,041 14,041	26, 589 23, 513 76	8, 362 6, 662	25, 599 25, 599	31, 625 1, 128 1, 128		40, 712 39, 625 547
Commercial building only Residential building only	980	6, 364 31, 580 21, 550	1 0 200	1 2 000		1	1 1 825	1,000		530	2,000		1 700	d i			h40
Building not specialized Commercial building only		10, 500 2, 982 17, 193	1	3,000 500 1,000	1 40		2, 493	2,000			1, 806					10, 147	
Sewer, gas, water, conduit		1, 518	1			1	1					142, 580 8, 660	171, 110 168, 214				
Subcontractors Electrical. Heating and plumbing Plumbing and heating combined Painting and heating combined Painting and decorating Plostering and lathing Roofing and sheet metal work Sheet-metal work	-				320				4, 76 2, 74 2, 02	3	112, 555 67, 124 29, 931	133,920	2,908		1,800		2,000
Plumbing Plumbing and heating combined Painting and decorating					320	5	3	36, 72	8		15, 500	15, 500					
Plastering and lathing Roofing and sheet-metal work Sheet-metal work									37, 43 26, 72	5				. .			
Roofing and sheet metal com- bined									10, 70	9	-						200

TABLE 11.—COST OF MATERIAL FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929— Continued

4 Includes the reported cost of cast iron, miscellaneous, excluding pipe; screens, shades, awnings, etc.; pipe: cast iron, sheet and tube steel, etc.; wire cable, guards, and fencing; wood piling and timber; metal products, n. e. s.; and miscellaneous, n. e. s. For total cost of these items see Table 9.

TABLE 12.—NUMBER OF, AND VOLUME OF BUSINESS REPORTED BY, ESTABLISHMENTS DOING A CONSTRUC-TION BUSINESS OF LESS THAN \$25,000 IN 1929, PERCENTAGE OF TOTAL NUMBER OF KNOWN ESTABLISH-MENTS, AND AVERAGE VOLUME PER ESTABLISHMENT

				Мс 1930 рори	NTANA lation, 537,	808		
$\frac{1}{2} = \frac{1}{2} \left[\frac{1}{2} \left[$	Knov	vn contract	ing establis	hments		Volume of	business reporte	d
TYPES OF WORK	· .		Activ	e in 1929	Number of report-	Per cent of		Average
ng ang ang ang ang ang ang ang ang ang a	Total number	Inactive in 1929	Number	Per cent	ing es- tablish- ments	active	Amount	per estab- lishment
Total establishments canvassed (less than \$25,000)	380	9	371					
Total establishments, type of work unknown Total general and subcontractors classified	19 361	9	19 352	100.0	1	5.3	\$20, 000	\$20,000
Total general contractors classified	The second s	7	148	40. 6	47	32.9	401, 498	8, 543
Building Highway Sewer, gas, water, conduit Waterworks	138	5 2	133 7 2	37.8 2.0 .6 .3	44 2 1	33. 1 28. 6 50. 0	349, 958 31, 000 20, 540	7,95 15,500 20,540
The table and the advance of a state of the	211	2	209	59.4	78	37.3	750, 115	9,61
Carpentaring Concreting Electrical Heating, piping and ventilating Painting and decorating Class	23 14 32 5 42 3		23 14 32 5 42 2	$ \begin{array}{r} $	8 4 12 2 20	34. 8 28. 6 37. 5 40. 0 47. 6	55, 160 35, 740 126, 007 18, 085 182, 092	6, 89 8, 93 10, 57 9, 34 9, 10
Criass Masonry. Plastoring Plumbing and heating. Sheat metal and roofing Stone work Narble and tiling Wrecking. Ornamental iron	$ \begin{array}{c} 11 \\ 51 \\ 19 \\ 2 \\ 3 \\ 1 \end{array} $	1	$ \begin{array}{c} 1 \\ 11 \\ 51 \\ 19 \\ 2 \\ 3 \\ 1 \\ 1 \\ 3 \\ 1 \\ 3 \\ 1 \\ 3 \\ 1 \\ 3 \\ 1 \\ 3 \\ 1 \\ 3 \\ 1 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3$.6	6 1 1	$\begin{array}{r} 45.5\\ 35.3\\ 31.6\\ 50.0\\ 33.3\\ 38.3\end{array}$	18, 591 220, 754 61, 362 5, 924 15, 000 9, 900	3,71 12,26 10,22 5,92 15,00 9,90

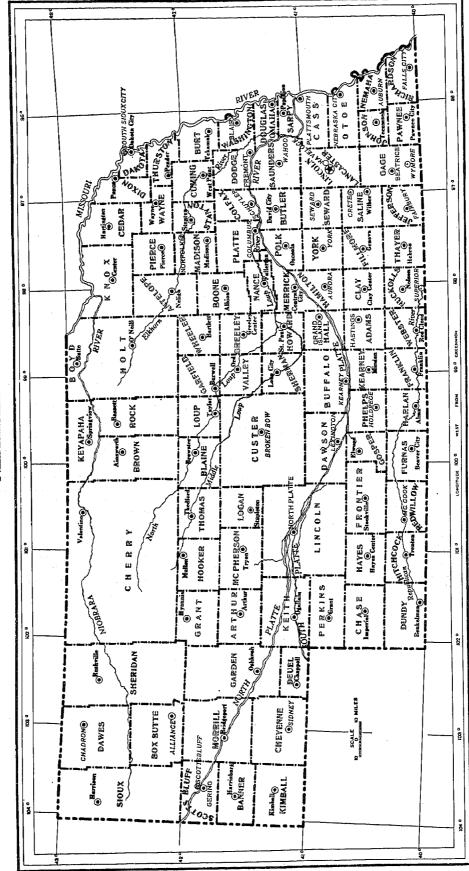
TABLE 13.-ESTABLISHMENTS (WHOSE BUSINESS WAS LESS THAN \$25,000 IN 1929) WHICH REPORTED THEIR VOLUME OF CONSTRUCTION WORK, CLASSIFIED BY RANGE OF VOLUME OF BUSINESS

CLASSIFICATION	Total	Less than \$2,500	\$2,500 to \$4,999	\$5,000 to \$7,499	\$7,500 to \$9,999	\$10,000 to \$12,499	\$12,500 to \$14,999		\$17,500 to \$19,999	\$20,000 to \$22,499	\$22,500 to \$24,999
MONTANA Total general and subcontractors	126	23	25	13	17	10	4	13	4	11	8
General contractors Subcontractors Type of contracting uuknown	47 78 1	10 13	9 16	3 10	8 9	5 5	22	8		3 7 1	5

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TABLE 1.-VALUE OF CONSTRUCTION BUSINESS DURING 1929 AND PRINCIPAL ITEMS OF EXPENDITURE

[Values expressed in thousands]

	-dsild		OF CONS		PRINC	IPAL E2 TURES	PENDI-		-hsilo		OF CONS		PRINC	APAL EX	
AREA, CLASSIFICATION OF ESTAB- LISHMENTS, AND SIZE OF BUSI- NESS GROUPS	Number of establish- ments	Total	Under general con- tract or di- rectly for owner	Un- der sub- con- tract	Sub- con- tract work let	Wages paid	Cost of ma- terials	AREA, CLASSIFICATION OF ESTAB- LISHMENTS, AND SIZE OF BUSI- NESS GROUPS	Number of establish- ments	Total	Under general con- tract or di- rectly for owner	Un- der sub- con- tract	Sub- con- tract work let	Wages paid	Cost of ma- terials
NEBRASKA	243	\$45, 345	\$39, 543	\$5, 802	\$5, 031	810, 451	\$18, 631	NEBRASKA-Continued.				~			
Counties and principal city Counties: Adams	5 5 107 7 4	334 219 23, 952	325 175	9 44 4, 558 5	48	70 5, 508 250	9.460	Subcontractors	84 44 26 9 3 1 1	1, 519 1, 796 1, 334	\$2, 252 702 782 206 422 138	1, 014 1, 128 561 901	3 81 80	\$1, 491 433 405 263 197 105 90	647 809 664 532
Lancaster		11,259	10,560	699		309 2, 760 173	4,659	ОМАНА	104	28, 868	19, 337	4, 525	2, 765	5, 489	9, 418
Madison		404 246	404 246		92 16	69 54	$151 \\ 126$	Classification of establish- ments			1				
Platto Redwillow Scotts Bluff Other counties 1 Principal city: 4 Omaha Classification of establish- ments	6 5 6 36 104	427 502 302 3, 721	413 471 235 3, 572	31 67 149	131 20 459	84 72 705	203 134 1, 4 29	General contractors. Building Duilding not specialized Commercial building only Residential building only Highway Bridge and culvert. Grading. Street paving.		3, 523 397 271 5, 316 1, 771	4, 192 3, 523 397 271 5, 309 1, 771	7	93 140 661	864 733 100 31 1,200	$ \begin{array}{r} 1,335\\133\\73\\2,126\\851\end{array} $
General contractors Building Building not specialized Commercial building only	159 88 63	13,091	11.667	14	2,870	2, 797 2, 502 147	5, 580 5, 050 229	Dam, reservoir, and waterworks. Other classes *	3	3, 302 1, 233 1, 329 573	1, 180 1, 329 573		25 295	292 239 159	399 413 216
Residential building only Highway Bridge and culvert Grading ⁴ Street paving Sewer, gas, water, condult ⁴ Dam, roservoir, and waterworks. Dredging, river, harbor, etc. ⁴	5 4	10,9452,5323,7101,2976391,4803,898	$ \begin{array}{c c c} 10,820\\ 2,478\\ 3,604\\ 1,242\\ 637\\ 1,445\\ 3,898 \end{array} $	$125 \\ 54 \\ 16 \\ 55 \\ 2 \\ 41 \\$	444 30 29 299 165	$\begin{array}{c} 2,357\\ 341\\ 1,550\\ 310\\ 157\\ 288\\ 1,151\end{array}$	4, 821 1, 232 500 422 370 485 994	Subcontractors. Electrical. Heating and plumbing Plumbing and pipe covering Plumbing and heating com- bined. Painting and decorating Roofing and sheet-metal work	5	383 1, 530 338 516 676 215 780	183 933 233 58 642 98	200 598 106 458 34 117	86 86 6	110 277 56 94 127 91	185 804 162 297 844 44 319
Subcontractors. Concreting 6 Electrical Heating and plumbing Heating and plumbing Plumbing. Plumbing and heating com- bined	38 8 18	379 412 2, 638 588 1, 057	51 212 1,443 285 328	200 1, 195 303 729	1 93 1 6	127 113 513 104 220	200 1,427 315	Roofing	4 3 3 4 3	2, 189 256	18 50	136 2,051 238	2	201 94	71 1, 624 107 281
bined Painting and decorating Roofing and sheet-metal work Sheet-metal work. Steel erection ? Marble and tiling Grading and excavating Other classes ⁸	0	215 1, 014 624 389 2, 180 544	98 252 162 90 138 56	117 761 462 299 2,051	2 2 71	91 208 117 90 201 129	431 277 154 1, 624 301	Size of business groups General contractors	54 10 8 18 6 7 5	331 597 2, 602	1,825 4,700 7,720	2 16 28 25 5	50 36 507 634	93 159 554 293 1,068	109 99 836 345
Size of business groups General contractors	12	1, 555 2, 905 5, 427 4, 412 8, 531 14, 767	1, 542 2, 836 5, 350 4, 269 8, 526 14, 767	60 77 143 5	$176 \\ 336 \\ 844 \\ 1,070 \\ 1,246 \\ 1,186 \\ 1,$	380 711 1, 155 844 1, 749 4, 119	626 1, 052 2, 049 1, 428 3, 533 5, 716	Building contractors \$25,000 to \$49,999 \$50,000 to \$109,909 \$100,000 to \$109,909 \$200,000 to \$409,099 \$500,000 to \$909,099 \$1,000,000 and over	23 8 2 10 1 1 1	486 663 1, 260	$265 \\ 136 \\ 1, 381 \\ 480 \\ 663 \\ 1, 260$		1, 195 50 361 260 274 250	804 70 275 94 105 274	518 49 214 619
Building contractors \$25,000 to \$40,000 \$50,000 to \$909.000 \$100,000 to \$109,999 \$200,000 to \$409,090 \$500,000 to \$999,999 \$1,000,000 and over	1 0	1, 148 1, 524 3, 019 1, 880	1, 148 1, 518 3, 011 1, 880 2, 002	6 8	171 214	278 375 628 373	$502 \\ 719 \\ 1, 127$	Subcontractors. \$25,000 to \$40,990 \$60,000 to \$100,999 \$100,000 to \$100,999 \$200,000 to \$109,999 \$200,000 to \$499,099 \$500,000 to \$999,099 \$1,000,000 and over.	50 22 17 6 3 1 1	815 1, 234 912 983	422	477	6 2 75 80	1, 105 256 281 177 197 105 90	318 531 419 532 674 900

¹ Includes Boone, Box Butte, Burt, Butler, Cedar, Cheyenne, Colfax, Dawes, Dawson, Franklin, Frontier, Gage, Hitchcock, Holt, Hooker, Johnson, Merrick, Phelps, Pierco, Polk, Richardson, Sarpy, Saunders, Søward, Thayer, Washington, Wayne, and York, for which data can not be shown without revealing individual operations. From areas other than those listed, no reports were received from establishments which handled as much as \$25,000 business during 1920. ³ Figures are included in respective county totals. ⁴ Includes refuse disposal plant. ⁶ Includes refuse disposal plant. ⁶ Includes mesonry and stonework. ⁷ Includes neutron onstruction; and ornamental iron. ⁷ Includes sevent and wood flooring; plastering and lathing; and railroad. ⁹ Includes scarpentering and wood flooring; plastering and lathing; and grading.

TABLE 2.—CONSTRUCTION BUSINESS OF REPORTING ESTABLISHMENTS DURING 1929, BY CLASS OF OWNER-SHIP AND BY TYPE OF WORK

	c	ONSTRUCTIO	N BU	SINESS REP	ORTI	ED BY		6	ONSTRUCTIO	N BU	SINESS REP	ORTE	D BY
CLASS OF OWNERSHIP AND TYPE OF		classes of blishments		neral con- ractors	Su	beontrac- tors	CLASS OF OWNERSHIP AND TYPE OF		l classes of blishments		neral con- tractors	Sut	contrac- tors
CONSTRUCTION WORK	Number	Value	Number reporting	Value	Number reporting	Value		Number	Value	Number	Value	Number reporting	Value
NEBRASKA							NEBRASKA—Continued						
All construction business Distribution not reported Distributed by class of owner- ship Putrate	243 16 227 172		<u> </u>	36, 535, 355	11 73	7, 285, 363	All business under subcontract- Continued. Distributed by class-Continued. Bridge and culvert- Railroad. Miscellaneous, n. e. s.	2 1 1	\$77, 248	{ 2 {	(1)	1	(1) (1)
Private Quasi public or community Public Distribution not reported	46	2, 697, 687 26, 971, 114	25 91 12	1, 881, 150 25, 393, 667	21 34	1, 577, 447	OMAHA	<u> </u>	, 				
Distributed by class of public ownership Federal	112	24, 465, 676	79 16	22, 926, 812 3, 609, 986	9	1, 538, 864 391, 010 471, 355	All construction business Distribution not reported	8		1		7	
State County or township Municipal		4, 286, 249	16 49 37 39	11, 013, 661 3, 831, 424 4, 471, 741	13	471, 386 454, 825 221, 674	Distributed by class of ownership Private Quasi public or community Public	96 69 16 52	23, 058, 862 7, 644, 605 773, 082 14, 641, 175 481, 609	53 29 3 34	17, 297, 426 3, 779, 274 174, 939 13, 343, 213	40	
All business under general contract or directly for owners Distribution not reported	203	39, 543, 450 148, 613 39, 394, 837		99,45	8 2	49, 160	Distribution not reported				443, 028		38, 583
Distributed by class Building Distribution not reported Distributed by class	130	14, 972, 354 458, 728 14, 513, 626	89 	12, 881, 414 458, 728	5	2,090,940	Distributed by class of public ownership	1 28	784, 956 7, 790, 589 3, 564, 593	31 7 20 13 12	449, 321 7, 445, 235 3, 138, 404	6	1, 259, 379 335, 635 345, 354 426, 189 152, 201
Commercial Educational Hotel Hospital and institutional	- 41 - 8	2, 326, 978 370, 642 1, 133, 652	22 4 11	365, 92 840, 73	Í	4,720	All husiness under general contract or directly for owners			53	17, 730, 122		1, 607, 360 49, 160
Manufacturing Military and naval Public: Courts, jails, etc Religious and memorial	- 14 - 1 - 10 - 24 - 91	<pre> 752, 328 927, 193 </pre>	${1 \\ 8 \\ 13}$	648, 67	$\{\frac{1}{2}$	103, 653 88, 218	Distributed by class Building Distribution not reported	75	19, 288, 322		17, 730, 122	22	1, 558, 200 1, 499, 351
Residential Social and recreational Air transport Rail and water transporta- tion	- 15 - 6	810, 583	10 10	783, 203			Distributed by class Commercial	48	5, 521, 231 2, 232, 148 210, 125	22 14 1	4, 021, 880 1, 715, 586 (¹)	21 15 10	1, 499, 351 516, 562 (1)
Hiscellaneous Highway and street Railroad and car line Public works and utilities Distribution not reported	00	283, 697 14, 366, 417 286, 348	12 46 3 48	152, 940 (1 (1) 9, 553, 70		130. 757	Hotel. Hospital and institutional Manufacturing Public: Courts, jails, etc. Religious and memorial. Social and recreational.	3 7 8	359, 392 408, 337 112, 396 517, 153			5	93, 326
Distribution not reported Distributed by class Bridge, tunnel, etc Central station, light and	- 51	688, 624	3	8, 865, 08		72, 280 (1)	Air transport	10 10 28	375, 956 644, 299	3 10 10	393, 498	18	} 84, 624 250, 801
Dock, pier, retaining wall, etc. River and harbor improve-	- 7	106, 689	ſ 1	(1) 3, 626, 54	2	i (1)	Rail and water transporta- tion Miscollancous Highway and street Public works and utilities Distribution not reported	24	140, 130 8, 946, 257	11 1	l ß	l 3 1 2	(1)
ment. Flood control, irrigation,	- 2	2 } 542,792) 542, 79	2					15	466, 024	2	(1)
Refuse disposal plant Sewage disposal and drain- age Water supply Park, grounds, otc Miscellaneous	- 10 - 14 - 2 - 3		$\ \ 12$	962, 58 846, 40		$\left\{\begin{array}{c}2\\2\\2\\2\\2\\3\\3\\2\\3\\480\end{array}\right\}$	Distributed by class. Bridge, tunnel, etc. Central station, light and power plant. Flood control, irrigation, and land drainage. Sewage disposal and drain-		46, 500 432, 292	2	(1)	1	(1)
Miscellaneous Air transport work Water power development Miscellaneous, n. e. s	[] i	8 9,158 37,092 3 106,638) 87,09 (1) (1)	11 3	1) 2 (1)	Park, grounds, etc	: i	572, 491 757, 797		572, 491 (1) (1)		
All business under subcontract Distribution not reported	- 71	7 5, 801, 68 1 158, 68		306, 29 41, 00	0	3 5, 495, 392 3 117, 682	Water supply Miscellaneous Railroad and car line Miscellaneous, n. e. s		202, 548 64, 202	<u>ال</u>	250,000	$\{ \begin{array}{c} 1 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\$	(1) } 16, 75(
Distributed by class Carpentering and wood flooring Painting and decorating Flooring, n. e. s	- 78		; 	265, 29		0 5, 877, 710 1 5 } 174, 815	All business under subcontract Carpentering and wood flooring Painting and decorating	1 1	4, 525, 047	[5 75, 809		h
Concreting Masonry Stone work Electrical	: 2	$\left\{ egin{array}{c} 124,917\\ 22\\ 22\\ 23\\ 200,346\\ 200,346 \end{array} \right\}$; {	18,79	4 - -	299, 598 2 6 200, 345	Plastering and lathing Flooring, n. e. s. Concreting Bridge and culvert.		 			1) (1)
Elevator construction Metal work, n. e. s Heating and plumbing Heating and piping		$\left\{ \begin{array}{c} 958,042\\ 1,057,803\\ 384,27 \end{array} \right\}$	5			$\left. \left. \left. \left. \left. \right\} \right. \right. \right. \left. \left. \left. \left. \left. \right\} \right. \right. \right. \right. \left. \left. \left. \left. \right\} \right. \right. \right. \right. \left. \left. \left. \left. \right\} \right. \right. \left. \left. \left. \right\} \right. \left. \left. \left. \right\} \right. \left. \left. \right\} \right. \left. \left. \left. \right\} \right. \left. \left. \right\} \right. \left. \left. \right\} \right. \left. \left. \left. \right\} \right. \left. \left. \right\} \right. \left. \left. \right\} \right. \left. \left. \left. \right\} \right. \left. \left. \right\} \right. \left. \left. \right\} \right. \left. \left. \left. \right\} \right. \left. \left. \right\} \right. \left. \left. \right\} \right. \left. \left. \right\} \right. \left. \left. \left. \right\} \right. \left. \left. \right\} \right. \left. \left. \right\} \right. \left. \left. \left. \right\} \right. \left. \left. \right\} \right. \left. \left. \right\} \right. \left. \left. \right\} \right. \left. \left. \left. \right\} \right. \left. \left. \right\} \right. \left. \left. \right\} \right. \left. \left. \right\} \right. \left. \left. \left. \right\} \right. \left. \left. \right\} \right. \left. \left. \right\} \right. \left. \left. \left. \right\} \right. \left. \left. \right\} \right. \left. \left. \right\} \right. \left. \left. \left. \right\} \right. \left. \left. \right\} \right. \left. \left. \right\} \right. \left. \left. \left. \right\} \right. \left. \left. \right\} \right. \left. \left. \right\} \right. \left. \left. \left. \right\} \right. \left. \left. \right\} \right. \left. \left. \left. \right\} \right. \left. \left. \left. \right\} \right. \left. \left. \right\} \right. \left. \left. \left. \right\} \right. \left. \left. \left. \right\} \right. \left. \left. \right\} \right. \left. \left. \left. \right\} \right. \left. \left. \right\} \right. \left. \left. \left. \right\} \right. \left. \left. \right\} \right. \left. \left. \right\} \right. \left. \left. \right\} \right. \left. \left. \left. \left. \right\} \right. \left. \left. \left. \right\} \right. \right. \right. \left. \left. \left. \left. \right\} \right. \left. \left. \left. \right\} \right. \left. \left. \left. \right\} \right. \right. \left. \left. \left. \left. \right\} \right. \right. \right. \left. \left. \left. \left. \right\} \right. \left. \left. \left. \right\} \right. \right. \left. \left. \left. \right\} \right. \right. \right. \left. \left. \left. \left. \right\} \right. \left. \left. \left. \left. \right\} \right. \left. \left. \left. \left. \right\} \right. \right. \right. \left. \left. \left. \left. \right\} \right. \left. \left. \left. \left. \right\} \right. \right. \left. \left. \left. \left. \right\} \right. \left. \left. \left. \right\} \right. \left. \left. \left. \right\} \right. \right. \left. \left. \left. \right\} \right. \left. \left. \left. \right\} \right. \left. \left. \left. \right\} \right. \left. \left. \left. \left. \right\} \right. \right. \right. \left. \left. \left. \left. \left. \right\} \right. \right. \right. \left. \left. \left. \left. \left. \right\} \right. \right. \right. \right. \right. \right. \right. \left. \left. \left. \left. \left. \left. \right\} \right. \right. \right. \right. \right. \left. \left. \left. \left. \left. \right\} \right. \right. \right. \right. \right. \right. \right. \left. \left. \left. \left. \left. \left. \right\} \right. \right. \right. \right. \right. \right. \right. \left. \left. \left. \left. \left. \left. \right\} \right. \right. \right. \right. \right. \right. \right. \right. \left. \left. \left. \left. \left. \left. \left. \right\right. \right. \right. \right. \right. \right. \right. \right. \right. \right. \left. \left. \left. \left. \left. \left. \left. \left. \left. \right\right. \right. \right.$	Street paving Electrical Elevator construction Metal work, n. e. s Heating and plumbing		$\left. \left. \begin{array}{c} 87, 301 \\ 200, 345 \\ 2 \\ 1 \\ 1 \end{array} \right\} $	2		{ 2 { 1	
Pipe covering Plumbing Plumbing and heating com- bined Plastering and lathing	- 14	556, 86	7		- 1 -	556, 867 116, 667	Heating and piping Pipe covering Plumbing		582,010 52 188,182 5309,967	all	· · · · · · · · · · · · · · · · · · ·	{ 5 2 5	582, 01 188, 18 309, 96
Roofing and sheet-metal work.		$\left\{\begin{array}{c} 538,648\\757,448\\490,551\end{array}\right\}$	s 			$ \begin{array}{c}1\\5\\5\\-\\7\\-\\490,551\end{array} $	Plumbing and heating com- bined		3 83, 867 563, 806 5 435, 000	5			83,80 563,80 435,00
Sheet-metal work Roofing and sheet metal com- bined Steel erection Ornamental iron	·	266, 805	₽ {	2 } 10, 13	-	$\left. \begin{array}{c} 8\\1\\1\\1\\2\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\$	Ornamental iron Stone work		$\left\{egin{array}{cccc} 128,806\\ 12\\ 2\\ 2\\ 1,113,006\\ 2\\ 617,326\end{array} ight\}$	p		17 2	128,80 1,113,00 1,617,32
Ornamental iron. Excavating Highway Street paving Rental of equipment, trucking,		981, 492 141, 640 57, 312 149, 404	111 1	2 (¹)	[<u></u>	2 }1, 113, 000 1 (1)	Excavating Grading Rental of equipment, trucking,		$\begin{pmatrix} 2 \\ 4 \\ 4 \\ 1 \\ 2 \\ 2 \\ 178, 402 \\ 1 \\ 178, 402 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ $	2	$\begin{pmatrix} 1 & (1) \\ 1 & (1) \\ 1 & (1) \\ 1 & (1) \end{pmatrix}$		(1)
Rental of equipment, trucking, etc Grading		2 1 230, 416		2 165, 50	1	3 214, 314	etc	-	1	<u> `</u>			

¹ Value omitted in order to avoid disclosing individual operations. The amounts omitted are, however, included in the respective totals.

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TABLE 3.—CONSTRUCTION BUSINESS DURING 1929, BY LOCATION

CLASSIFICATION OF ESTAB- LISHMENTS	Establishments reporting	Total	In home city	In home State	Outside home State	CLASSIFICATION OF ESTAB- LISILMENTS	Establishments reporting	Total	In home city	In home State	Outside home State
NEBRASKA	237	\$43, 696, 199	\$12, 806, 552	\$25, 240, 292	\$18, 455, 907	OMAHA	101	\$23, 527, 396	\$7, 141, 586	812, 847, 871	
General contractors Building. Building not specialized Commercial building only Residential building only Highway. Bridge and culvert. Grading 1. Street paving. Sewer, gas, water, condult 2. Dam, reservoir, and water works. Dredging, river, harbor, etc. ³ . Subcontractors Concreting 4. Electrical Heating and plping Plumbing. Plumbing and heating com- bined Painting and heating com- bined Sheet-metal work. Roofing Sheet-metal work. Steel erection 4. Marble and tiling Grading and excavating	$ \begin{array}{c} 61\\ 0\\ 16\\ 22\\ 22\\ 13\\ 7\\ 5\\ 4\\ 4\\ 4\\ 4\\ 82\\ 5\\ 5\\ 7\\ 7\\ 18\\ 82\\ 12\\ 6\\ 10\\ 12\\ 6\\ 10\\ 12\\ 6\\ 10\\ 12\\ 12\\ 6\\ 10\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 5, 401, 287\\ 5, 160, 834\\ 753, 271\\ 229, 295\\ 15, 824\\ \hline \\ 802, 419\\ 56, 202\\ 241, 000\\ 8, 800\\ 4, 692, 010\\ 276, 038\\ 343, 756\\ 1, 957, 931\\ 333, 564\\ 1, 017, 245\\ 607, 122\\ 212, 141\\ 646, 368\\ 254, 870\\ 877, 902\\ 299, 170\\ \hline \\ \end{array}$	$\begin{array}{c} 9, 970, 353\\ 8, 600, 698\\ 858, 334\\ 784, 271\\ 858, 334\\ 784, 271\\ 857, 045\\ 1, 977, 045\\ 554, 687\\ 1, 020, 751\\ 322, 848\\ 311, 000\\ 174, 071\\ 6, 007, 052\\ 276, 038\\ 412, 180\\ 2, 212, 871\\ 433, 000\\ 1, 057, 215\\ 721, 057\\ 212, 641\\ 818, 787\\ 438, 086\\ 380, 286\\ 1, 475, 643\\ 400, 248\\ 30, 000\\ \end{array}$	655,005 8,040,406 276,141 310,132 1,175,114 3,722,952 1,490,269 	Building Building not specialized Building not specialized Commercial building only Residential building only Residential building only Bridee and culvert Bridee and culvert Bridee and culvert Street paving Dam, reservoir, and waterworks Other classes 7 Other classes 7 Subcontractors Electrical Heating and plumbing Plumbing Plumbing Plumbing and heating combined Painting and decorating Roofing and sheet metal work Roofing and sheet metal work Stoel metal work Stoel creation Bheet metal work Stoel creation Other classes 3 Other	13 55 8 4 6 6 3 3 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	4, 191, 580 3, 523, 149 307, 206 271, 135 5, 316, 023 1, 770, 870 3, 207, 315 1, 233, 266 1, 329, 114 573, 130 5, 806, 008 382, 646	2, 862, 235 2, 193, 864 397, 206 271, 135 738, 793 200, 000 3, 306, 685 343, 766 964, 422 151, 512 508, 183 304, 727 212, 141 431, 80 220, 83 202, 03 202, 03 244, 60	$\begin{array}{c} 3, 435, 286\\ 3, 97, 296\\ 271, 138\\ 1, 529, 897\\ 1, 197, 870\\ 9957, 122\\ 9957, 122\\ 9957, 122\\ 92, 044\\ 4, 435, 304\\ 382, 644\\ 1, 111, 177\\ 100, 923\\ 518, 683\\ 404, 562\\ 212, 641\\ 376, 832\\ 1, 205, 76\\ 20$	87, 863 87, 863 87, 863 3, 780, 126 673, 000 3, 020, 400 276, 141 1, 084, 114 481, 081 1, 370, 794

¹ Includes air transport work.
² Includes refuse disposal plant.
³ Includes levee.
⁴ Includes masorry; and stonework.
⁴ Includes alevator construction; and ornamental iron.
⁶ Includes carpentering and wood flooring; plastering and lathing; and railroad.
⁶ Includes sewer, gas, water, conduit; and dredging, river, harbor, etc.; and levee.
⁸ Includes carpentering and wood flooring; concreting; plastering and lathing; stonework; and grading.

TABLE 4.—CONSTRUCTION BUSINESS OUTSIDE HOME STATE, BY LOCATION

	LOCAT	ON REPORTED	вү—	•	LOCATI	ON REPORTED	BY
STATE	All classes of establish- ments	General con- tractors	Subcon- tractors	STATE	All classes of establish- ments	General con- tractors	Subcon- tractors
NEBRASKA				OMAHA			
Total distributed by State 1	\$18, 455, 907	\$16, 965, 638	\$1, 490, 269	Total distributed by State *	\$10, 679, 525	\$9, 308, 731	\$1, 870, 794
Alabama	$\begin{array}{c} 37, 133\\ 565, 252\\ 1, 053, 095\\ 12, 381\\ 4, 719, 037\\ 3, 077, 994\\ 40, 000\\ 63, 000\\ 4, 337, 602\\ 4, 337, 600\\ 16, 000\\ 282, 036\\ 160, 000\\ 771, 175\\ 400, 024\\ \end{array}$	300,000 34,133 153,723 929,434 12,381 4,213,970 3,040,994 	3,000 411,520 123,661 505,081 37,000 40,000 35,000 16,000 16,000 16,000 84,353 35,565 2,100	Alabama	$\begin{array}{c} 37, 133\\ 411, 529\\ 332, 900\\ 12, 381\\ 3, 688, 424\\ 990, 953\\ 40, 000\\ 63, 000\\ 2, 270, 076\\ 16, 000\\ 276, 336\\ 160, 000\\ 595, 700\\ 406, 624 \end{array}$	34, 133 235, 820 12, 381 3, 109, 151 963, 553 	35,000 16,000

Number of establishments reporting: ¹ All classes, 68; general contractors, 50; subcontractors, 18. ² All classes, 41; general contractors, 28; subcontractors, 13.

TABLE 5 .- NUMBER AND SALARIES OF PROPRIETORS, FIRM MEMBERS, AND SALARIED EMPLOYEES: 1929

		PROPR	IETORS . MEMBE	AND FIRM RS				SALAI	HED E	MPLOYEES				
CLASSIFICATION OF ESTABLISHMENTS	Estab- lish- ments report-	Re- ceiv-		elving laries	All si	alaried em- bloyees	Offi cler	cers and ical staff		intendents, men, etc.	Num	iber rep by sex	orted,	Sex not
	ing	ing no salary	Num- ber	Total annual salaries	Total num- ber	Total annual salaries	Num- ber	Total annual salaries	Num- ber	Total annual salaries	Total	Male	Fe- male	re- port- ed
NEBRASKA	240	187	81	\$220, 823	739	\$1, 871, 878	853	\$976, 337	386	8895, 541	670	587	88	69
General contractors. Building. Building not specialized. Commercial building only. Residential building only. Highway Bridge and culvert. Grading '. Street paving. Sower, gas, water, conduit *. Dam, reservoir, and waterworks. Dradging, river, harbor, etc.*. Subcontractors. Concreting. Electrical Heating and plumbing. Heating and plumbing. Heating and plumbing. Plumbing. Plumbing. Plumbing and heating combined. Painting and decorating. Steel erection 4. Store work and masonry. Marble and tillng. Grading and exavating.	$\begin{array}{c} 23\\ 14\\ 14\\ 6\\ 5\\ 4\\ 4\\ 4\\ 4\\ 82\\ 82\\ 82\\ 82\\ 82\\ 82\\ 82\\ 82\\ 82\\ 82$	$\begin{array}{c} 137\\ 77\\ 52\\ 7\\ 18\\ 15\\ 8\\ 18\\ 7\\ 5\\ 4\\ 4\\ 3\\ 3\\ 5\\ 27\\ 7\\ 12\\ 8\\ 2\\ 27\\ 7\\ 12\\ 8\\ 2\\ 27\\ 7\\ 12\\ 8\\ 2\\ 2\\ 7\\ 12\\ 8\\ 2\\ 2\\ 7\\ 7\\ 12\\ 8\\ 2\\ 2\\ 7\\ 7\\ 12\\ 8\\ 2\\ 2\\ 7\\ 7\\ 12\\ 8\\ 2\\ 2\\ 7\\ 7\\ 12\\ 8\\ 2\\ 2\\ 7\\ 7\\ 12\\ 8\\ 2\\ 2\\ 7\\ 7\\ 12\\ 8\\ 2\\ 2\\ 7\\ 7\\ 12\\ 8\\ 2\\ 2\\ 7\\ 7\\ 12\\ 8\\ 2\\ 2\\ 7\\ 7\\ 12\\ 8\\ 2\\ 2\\ 7\\ 7\\ 12\\ 8\\ 2\\ 2\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ $	35 4	110, 710 90, 978 86, 478 4, 630 16, 745 7, 800 4, 187 	$\begin{array}{c} 568\\192\\156\\21\\15\\188\\70\\229\\87\\29\\171\\221\\31\\18\\71\\222\\31\\18\\729\\23\\6\\222\\6\\71\\29\\23\\6\\22\\26\\6\\22\\29\\23\\6\\22\\6\\7\\1\\29\\23\\6\\22\\6\\22\\22\\6\\7\\4\\22\\22\\6\\6\\22\\22\\6\\6\\7\\7\\29\\22\\6\\6\\22\\22\\6\\6\\7\\7\\29\\22\\6\\6\\22\\22\\6\\6\\7\\7\\29\\22\\6\\6\\22\\22\\6\\6\\7\\7\\29\\22\\6\\6\\7\\7\\29\\22\\6\\6\\7\\7\\29\\22\\6\\6\\7\\7\\29\\22\\6\\6\\7\\7\\29\\22\\6\\6\\7\\7\\29\\22\\6\\6\\7\\7\\29\\22\\6\\6\\7\\7\\29\\22\\6\\6\\7\\7\\29\\22\\6\\7\\7\\29\\22\\6\\7\\7\\29\\22\\6\\7\\7\\29\\22\\6\\7\\7\\29\\22\\6\\7\\7\\29\\22\\6\\7\\7\\29\\22\\6\\7\\7\\29\\22\\6\\7\\7\\29\\22\\29\\22\\6\\7\\7\\29\\22\\29\\22\\6\\7\\7\\29\\22\\29\\20\\20\\20\\20\\20\\20\\20\\20\\20\\20\\20\\20\\20\\$	$\begin{array}{c} 1,490,477\\ 416,703\\ 416,703\\ 45,888\\ 25,800\\ 455,104\\ 200,034\\ 90,718\\ $	$\begin{array}{c} 232\\ 78\\ 59\\ 8\\ 11\\ 57\\ 42\\ 14\\ 9\\ 9\\ 9\\ 18\\ 121\\ 13\\ 19\\ 222\\ 12\\ 6\\ 6\\ 23\\ 19\\ 4\\ 16\\ 8\\ 5\\ 5\\ -1\\ 1\end{array}$	725, 791 190, 258 105, 318, 300 199, 317 146, 114 58, 500 40, 687 43, 950 250, 546 2, 100 12, 311 100, 524 43, 857 31, 285 26, 652 12, 187 56, 703 51, 645 55, 646 44, 641 6, 650 11, 720	$\begin{array}{c} 336\\ 114\\ 97\\ 13\\ 4\\ 131\\ 28\\ 21\\ 20\\ 0\\ 3\\ 8\\ 11\\ 50\\ 2\\ 7\\ 18\\ 3\\ 9\\ 6\\ 1\\ 1\\ 6\\ 4\\ 2\\ 2\\ 6\\ 8\\ 3\\ 2\\ 4\\ 1\end{array}$	$\begin{array}{c} 773, 686\\ 202, 193\\ 261, 445\\ 33, 248\\ 7, 500\\ 255, 787\\ 53, 920\\ 255, 787\\ 53, 920\\ 255, 787\\ 53, 920\\ 255, 787\\ 53, 920\\ 20, 900\\ 72, 323\\ 121, 855\\ 2, 240\\ 20, 629\\ 72, 323\\ 121, 855\\ 2, 240\\ 23, 450\\ 20, 629\\ 12, 856\\ 20, 629\\ 18, 685\\ 2, 380\\ 10, 540\\ 10, 540\\ 11, 651\\ 11, 200\\ 3, 000\\ 5, 850\\ 3, 120\\ \end{array}$	$\begin{array}{c} 526\\ 177\\ 154\\ 11\\ 12\\ 165\\ 70\\ 329\\ 7\\ 7\\ 14\\ 29\\ 144\\ 5\\ 156\\ 22\\ 23\\ 11\\ 6\\ 22\\ 23\\ 11\\ 6\\ 26\\ 23\\ 3\\ 22\\ 2\\ 2\\ 3\\ 4\\ 4\\ 2\end{array}$	$\begin{array}{c} 478\\ 160\\ 160\\ 10\\ 10\\ 10\\ 10\\ 80\\ 33\\ 28\\ 28\\ 22\\ 22\\ 22\\ 22\\ 109\\ 5\\ 5\\ 5\\ 5\\ 5\\ 15\\ 15\\ 10\\ 20\\ 220\\ 2\\ 5\\ 4\\ 2\\ 22\\ 5\\ 4\\ 2\\ 22\\ 5\\ 5\\ 4\\ 2\\ 22\\ 5\\ 5\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10$	48 17 14 1 2 9 10 2 1 7 35 7 16 7 8 1 1 1 8 8 7 1 2 2 7 1 6 7 1 1 4 8 7 1 2 7 1 4	42 15 2 16 3 28 1 3 27 27 3 15 8 7 1 3 3 15 4 1
OMAHA		67	25	69, 110	418	1, 085, 565	213	634, 076	205	451, 489	376	529	47	42
General contractors	28 13 5 8 4 7	45 20 15 2 3 3 3 2 9 7 4	. 1	3,000	290 69 43 18 98 45 28 20 11 10	764, 097 176, 284 118, 282 40, 202 17, 800 235, 782 141, 236 80, 418 70, 290 29, 687 31, 000	123 30 15 7 8 25 32 13 9 7 7	$\begin{array}{c} 418,033\\ 87,962\\ 58,562\\ 11,600\\ 17,800\\ 84,697\\ 114,422\\ 56,400\\ 30,865\\ 18,687\\ 25,000 \end{array}$	167 39 28 11 73 13 15 20 4 3	346, 664 88, 322 59, 720 28, 602 151, 085 26, 814 24, 018 39, 425 11, 000 6, 000	204 58 42 8 8 8 45 28 29 8 10	241 50 37 7 6 83 30 26 28 6 9	28 8 5 1 2 8 6 2 1 2 1 2 1 2 1	26 11 10 12 3
Subcontractors	49 8 10 5 0 5 6 6 3 3 4	22 2 7 3 1 2 3 		48, 150 9, 844 9, 126 4, 726 2, 400 2, 000 9, 000 	$128 \\ 10 \\ 44 \\ 19 \\ 13 \\ 12 \\ 7 \\ 23 \\ 22 \\ 7 \\ 6 \\ 3 \\ 3 \\ 12 \\ 7 \\ 6 \\ 3 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 $	$\begin{array}{c} 320,868\\ 33,404\\ 115,116\\ 49,789\\ 26,987\\ 38,340\\ 14,667\\ 59,769\\ 50,292\\ 18,660\\ 13,740\\ 9,320\\ \end{array}$	90 9 32 16 10 6 18 18 16 4 4 1	216, 043 9, 954 77, 381 40, 739 16, 987 19, 655 12, 187 50, 240 44, 641 7, 460 10, 680 3, 500	38 7 12 3 6 1 5 6 3 2 2 2	$\begin{matrix} 104, 825\\ 28, 450\\ 37, 735\\ 9, 050\\ 10, 000\\ 18, 685\\ 2, 380\\ 9, 529\\ 11, 651\\ 11, 200\\ 3, 060\\ 5, 820 \end{matrix}$	112 15 35 19 8 8 6 22 22 22 3 6 3	88 28 15 5 10 20 3 5 3	24 7 7 4 3 	16 9 5 4 1 1 4

¹ Includes air transport work.
² Includes refuse disposal plant.
³ Includes levee.
⁴ Includes elevator construction; and ornamental iron.
⁴ Includes carpentering and wood flooring; plastering and lathing; and railroad.
⁶ Includes sewer, gas, water, conduit; dredging, river, harbor, etc.; and levee.
⁷ Includes carpentering and wood flooring; plastering and lathing; and grading.

TABLE 6.—VALUE OF CONSTRUCTION EQUIPMENT, IN COMPARISON WITH CONSTRUCTION BUSINESS AND WAGES PAID DURING 1929

-					·						
	nts	EQUIP	MENT				nts	EQUIP	MENT		
CLASSIFICATION OF ESTABLISH- MENTS AND PERCENTAGE OF EQUIPMENT OWNED	Establishments reporting	Pur- cbased during the year	Inven- tory value at end of year	Value of construc- tion business reported	Wages paid	CLASSIFICATION OF ESTABLISH- MENTS AND PERCENTAGE OF EQUIPMENT OWNED	Establishments reporting	Pur- chased during the year	Inven- tory value at end of year	Value of construc- tion business reported	Wages paid
NEBRASKA	227	\$1, 660, 833	\$6, 130, 232	\$42, 951, 497	\$10,057,758	ОМАНА	100	\$815, 216	\$3, 120, 577	823, 576, 120	85, 480, 118
Classification of establish- ments						Classification of establish- ments					
General contractors Building. Building not specialized Commercial building only Residential building only Bridge and culvert. Grading 1. Street paving Sweer, gas, water, conduit 4 Dam, reservoir, and water- works. Dredging, river, harbor, etc. ⁸ Subcontractors Concreting 4 Electrical Heating and plumbing Heating and plumbing Plumbing and heating com- blaed. Painting and decorating. Roofing and sheet-metal work. Roofing and sheet-metal work. Steel erection 8 Marble and tiling Grading and excavating.	$ \begin{array}{c} 80\\ 509\\ 7\\ 14\\ 222\\ 14\\ 13\\ 7\\ 5\\ 4\\ 4\\ 4\\ 7\\ 8\\ 34\\ 7\\ 7\\ 17\\ 17\\ 10\\ 0\\ 6\\ 8\\ 34\\ 34\\ 34\\ 34\\ 34\\ 34\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\$	$\begin{array}{c} 668,700\\ 59,200\\ 0,887\\ 2,700\\ 424,600\\ 444,479\\ 363,911\\ 1007,817\\ 107,817\\ $	$\begin{array}{c} 403, 416\\ 350, 417, \\ 350, 417, \\ 34, 689\\ 12, 310\\ 11, 704, 654\\ 225, 165\\ 033, 101\\ 385, 127\\ 89, 704\\ 410, 727, 854\\ 410, 727, 854\\ 410, 727, 848, 354\\ 11, 727, 854\\ 410, 727, 848, 354\\ 12, 021\\ 117, 166\\ 10, 106\\ 00, 903\\ 40, 154\\ 12, 706\\ 33, 543\\ 20, 210\\ 53, 756\\ 33, 543\\ 34, 340\\ 44, 000\\ 154\\ 34, 340\\ 34, 340\\ 344\\ 340\\ 344\\ 340\\ 344\\ 340\\ 340\\$	$\begin{array}{c} 10, 333, 290\\ 2, 532, 050\\ 3, 643, 324\\ 1, 200, 802\\ 638, 980\\ 1, 486, 114\\ 3, 807, 023\\ 7, 422, 021\\ 370, 038\\ 382, 046\\ 2, 360, 172\\ 440, 179\\ 410, 179\\ 1, 022, 386\\ 900, 587\\ 2, 215, 074\\ 986, 024, 408\\ 862, 422\\ 2, 180, 405\\ 544, 348\\ 244, 314\\ \end{array}$	$\begin{array}{c} 2, 633, 360, 450)\\ 2, 800, 450, 127, 513, 136, 334, 1157, 513, 136, 534, 157, 556, 925, 341, 157, 5535, 5509, 354, 556, 907, 287, 902, 11, 150, 5532\\ 1, 443, 387, 1, 243, 387, 1, 243, 387, 100, 632, 470, 969, 877, 100, 632, 470, 969, 877, 100, 632, 470, 969, 877, 100, 832, 117, 386, 90, 937, 2005, 737, 2015, 117, 335, 88, 937, 2015, 117, 335, 1129, 221, 100, 814\\ \end{array}$	Dam, reservoir, and water- works	$ \begin{array}{c} 22\\ 12\\ 5\\ 6\\ 6\\ 6\\ 6\\ 6\\ 6\\ 6\\ 6\\ 6\\ 6\\ 6\\ 6\\ 6\\$	14,873 5,887 173,057 10,203 276,272 100,317 137,182 55,000 40,925 55,000 40,925 55,000 40,925 55,000 40,925 55,000 40,925 5,531 5,543 5,555 5,000 5,543 5,545 5,543 5,545 5,545 5,543 5,545 5,54	111, 191 24, 688 1, 004, 900 78, 738 765, 401 333, 127 201, 743 336, 127 201, 743 336, 232 203, 542 12, 023 10, 873 21, 166 10, 873 21, 166 10, 873 21, 166 11, 025 10, 874 21, 167 20, 554 21, 27 20, 554 21, 27 21,	$\begin{array}{c} 397, 296\\ 271, 135\\ 5, 316, 023\\ 1, 770, 870\\ 3, 325, 546\\ 1, 233, 206\\ 1, 323, 206\\ 1, 323, 206\\ 1, 322, 114\\ 573, 130\\ 5, 874, 260\\ 382, 646\\ 1, 347, 342\\ 1, 190, 932\\ 480, 854\\ 675, 562\\ 215, 074\\ 780, 074\\ 780, 074\\ 780, 074\\ 780, 074\\ 215, 074\\ 780, 074\\$	$\begin{array}{c} 100, 250\\ 30, 846\\ 1, 200, 328\\ 149, 730\\ 1, 450, 114\\ 292, 354\\ 239, 153\\ 159, 048\\ 1, 078, 230\\ 109, 632\\ 250, 872\\ 38, 909\\ 84, 445\\ 127, 428\\ 90, 937\\ 163, 740\\ 201, 163\\ 94, 169\\ 114, 988\\ \end{array}$
Percentage of equipment	8	700	1,000	111, 644	48, 790	owned 9	52	774 901	2 897 03	17, 701, 851	4, 351, 888
owned General contractors	4 2 22 110 22	100 370 700 783, 658 708, 309 94, 011	1, 300 7, 665 10, 150 2, 600, 074 3, 023, 565 70, 701	12, 527, 891 21, 885, 125 404, 025	35, 857 16, 060 22, 860 38, 090 3, 801, 517 4, 691, 982	None	2 1 10 37 1 48	370 362, 203 317, 707 94, 011 40, 925	300 7, 665 082, 856 1, 765, 710 70, 501 293, 542	178, 249 33, 000 130, 481 7, 332, 017 9, 655, 480 360, 624 5, 874, 269 321, 493	10, 000 10, 000 22, 860 2, 316, 314 1, 992, 714
Subcontractors None 1% to 25% 20% to 50%	1 6			354, 493	73, 093						
None. 1% to 25%	2 73	12, 203 61, 060	14.000		34 874						

Includes air transport work.
 Includes refuse disposal plant.
 Includes levee.
 Includes masoury and stonework.
 Includes elevator construction; and ornamental iron.

Includes carpentering and wood flooring; plastering and lathing; and railroad.
Includes sewer, gas, water, conduit; dredging, river, harbor, etc.; and levee.
Includes carpentering and wood flooring; plastering and lathing; and grading.
For complete classification, see tabulation for State above.

TABLE 7 .--- WAGE EARNERS, BY MONTHS, AND WAGES PAID DURING 1929

CLASSIFICATION OF ESTABLISHMENTS AND	Estab- lish-	1	UMBER	EMPLOYI	ED ON 15	TH DAY	OF THE	MONTH	OR NEAI	REST REF	RESENT.	ATIVE DA	¥	Wages paid dur-
LENGTH OF WORKING WEEK	ments report- ing	Janu- ary	Febru- ary	March	April	May	June	July	August	Septem- ber	Octo- ber	Novem- ber	Decem- ber	
NEBRASKA	221	3, 854	3, 116	4, 046	6, 497	7, 798	9, 219	9, 998	11, 329	10, 543	10, 868	8, 758	5, 946	\$10, 153, 816
Classification of establishments General contractors Building Commercial building only Residential building only Highway Bridge and culvert Grading Street paving Sower, gas, water, conduit 1 Dam, reservoir, and waterworks Dredging, river, harbor, etc. ²	14 12 6	2, 758 991 883 46 62 518 73 204 84 68 208 612	2, 522 1, 055 938 41 76 293 78 193 95 58 205 545	$\begin{array}{c} \textbf{3, 383} \\ \textbf{1, 380} \\ \textbf{1, 256} \\ \textbf{42} \\ \textbf{82} \\ \textbf{482} \\ \textbf{126} \\ \textbf{310} \\ \textbf{96} \\ \textbf{82} \\ \textbf{261} \\ \textbf{046} \end{array}$	5, 643 1, 825 1, 641 1, 080 239 1, 063 148 144 317 827	6, 877 2, 128 1, 904 128 1, 718 321 1, 108 197 199 333 873	8, 233 2, 299 2, 070 110 2, 364 360 1, 129 217 207 386 1, 271	9, 014 2, 389 2, 162 103 124 2, 768 368 1, 144 371 202 284 1, 488	10, 213 2, 378 2, 155 105 118 3, 251 412 1, 185 451 203 310 2, 023	$\begin{array}{c} 9,416\\ 2,126\\ 1,920\\ 99\\ 107\\ 3,224\\ 338\\ 1,135\\ 461\\ 171\\ 254\\ 1,707\\ \end{array}$	9,769 2,193 1,958 118 117 3,356 295 1,109 484 186 285 1,861	7,8991,8731,671951071,9832269904451453141,923	5, 220 1, 608 1, 446 77 85 833 161 729 101 131 177 1, 480	8,715,914 2,625,813 2,389,648 107,213 128,952 2,347,585 341,167 1,514,779 299,108 153,459 287,921 1,146,092
Subcontractors Concreting ³ Electrical Heating and plumbing Heating and pipe covering Plumbing Plumbing and heating combined	78 6 9 83 8 16	596 25 48 282 45 104 73	594 25 54 277 43 164 70	663 24 57 279 40 171 68	854 45 59 287 44 177 66	921 80 51 306 60 177 69	986 90 55 314 75 165 74	984 88 55 832 87 161- 84	1, 116 92 60 322 82 152 88	1, 127 88 55 334 85 154 95	1,099 89 55 857 86 157 114	859 88 51 355 84 159 112	726 68 63 830 72 154 110	$1, 437, 902 \\126, 509 \\112, 589 \\467, 616 \\103, 664 \\203, 635 \\100, 317$

See footnotes at end of table.

TABLE 7 .- WAGE EARNERS, BY MONTHS, AND WAGES PAID DURING 1929-Continued

	Estab- lish-	N	UMBER	EMPLOYE	D ON 15	TH DAY	OF THE 1	MONTH (OR NEAR	EST REPI	LESENTA	TIVE DA	Y	Wages
CLASSIFICATION OF ESTABLISHMENTS AND LENGTH OF WORKING WEEK	ments report- ing	Janu- ary	Febru- ary	March	April	May	June	July	August	Septem- ber	Octo- ber	Novem- ber	Decem- ber	paid dur- ing year
NEBRASKA —Continued. Classification of establishments—Contd.														
Subcontractors—Continued. Painting and decorating Roofing Sheet metal work Steel erection 4 Marble and tiling Grading and excavating Other classes 4	6 10 5 5 3 4 4 4 3	$35\\ 68\\ 21\\ 47\\ 75\\ 55\\ 4\\ 4$	29 71 29 42 74 50 6 8	49 121 71 50 73 46 3 11	$ \begin{array}{r} 65 \\ 141 \\ 76 \\ 65 \\ 81 \\ 88 \\ 42 \\ 46 \\ \end{array} $	83 137 70 67 84 99 44 37	89 135 70 65 102 102 71 28	63 149 91 58 104 86 92 15	$\begin{array}{r} 69\\ 154\\ 96\\ 58\\ 114\\ 72\\ 93\\ 140 \end{array}$	66 149 80 69 121 73 88 153	52 141 72 69 06 50 105 154	47 143 67 76 79 54 38 4	28 93 41 52 66 54 15 3	\$90, 937 207, 661 117, 835 90, 326 201, 153 121, 833 60, 814 48, 700
		2, 758	2, 522	3, 383	5, 643	6, 877	8, 233	9, 014		9, 416	9, 769	7, 899	5, 220	8, 715, 914
40-hour, 5-day week 45-hour, 5-day week 50-hour, 5-day week All other 5-day week		017		319	560			486	365	312	498	468	470	643,920
44-hour, 5½-day week 49½-hour, 5½-day week 55-hour, 5½-day week All other 5½-day week	19 2 1 27	217 93 5 401	268 88 5 414	120 120 10 531	118 10 720	148 10 840	156 156 13 977	176 176 1,010	232 7 1,049	213 9 903	189 11 893	141 11 800	136 5 547	805, 796
Length of working week 40-hour, 5-day week 45-hour, 5-day week 50-hour, 5-day week All other 5-day week 44-hour, 5½-day week 44-hour, 5½-day week 55-hour, 5½-day week All other 5½-day week All other 6-day week 54-hour, 6-day week 54-hour, 6-day week All other 6-day week	13 60 14 6	187 1, 604 130 103 18	$ \begin{array}{r} 195 \\ 1,373 \\ 114 \\ 43 \\ 22 \end{array} $	300 1, 829 170 77 27	317 3, 484 303 104 27	380 4, 279 477 112 35	487 5, 339 483 197 35	507 6,060 477 247 42	524 7,040 583 373 40	471 6, 452 583 428 45	430 6, 695 570 438 45	372 5,426 255 403 23	311 3, 339 186 201 25	857, 753 515, 841 5, 619, 938 465, 769 277, 340 20, 465
Not reported	78 1	596 12	594 10	663 8	854 11	921 14	986 16	984 _16	1, 116 16	1, 127 16	1, 099 16	859 16	726 16	1, 437, 902 16, 558
Subcontractors. 40-hour, 5-day week. 50-hour, 5-day week. All other 5-day week. 44-hour, 51/2-day week. 491/2-hour, 51/2-day week. All other 51/2-day week. All other 51/2-day week. All other 51/2-day week.	37	884	399	442	542	561	552	528	544	550	510	469	426	918, 145
All other 5½-day week	9 7 2	$122 \\ 34 \\ 6 \\ 11 \\ 5 \\ 22$	108 36 8 9 7 17	110 46 27 9 5 16	136 61 71 9 8 16	150 50 90 11 11 25	$177 \\ 55 \\ 109 \\ 13 \\ 20 \\ 44$	$172 \\ 74 \\ 136 \\ 13 \\ 23 \\ 22$	290 75 134 14 24 19	318 74 118 14 21 16	314 76 133 13 21 16	192 73 65 13 10 21	$ \begin{array}{r} 155 \\ 63 \\ 31 \\ 13 \\ 2 \\ 20 \\ 20 \\ \end{array} $	239, 618 91, 067 87, 145 17, 457 19, 746 48, 166
ОМАНА	95	1, 633	1, 490	1, 869	3, 427	4, 011	4, 463	4, 789	5, 204	5, 065	5, 121	4, 075	2, 753	5, 368, 381
Classification of establishments General contractors. Building. Building not specialized. Commercial building only. Highway. Bridge and culvert. Grading. Street paving Other classes 6.	48 20 13 4 3 8 4 5 5 5	1, 232 295 229 31 35 350 38 196 81 272	$1,077 \\ 324 \\ 261 \\ 25 \\ 38 \\ 164 \\ 42 \\ 185 \\ 92 \\ 270 \\$	$1, 394 \\ 398 \\ 344 \\ 24 \\ 30 \\ 230 \\ 48 \\ 284 \\ 91 \\ 334$	2, 812 554 487 31 36 579 86 1, 001 143 449	$\begin{array}{c} \textbf{3, 374} \\ \textbf{670} \\ \textbf{597} \\ \textbf{39} \\ \textbf{34} \\ \textbf{898} \\ \textbf{123} \\ \textbf{1, 031} \\ \textbf{172} \\ \textbf{480} \end{array}$	$\begin{array}{c} 3,795\\ 610\\ 544\\ 40\\ 26\\ 1,267\\ 135\\ 1,047\\ 177\\ 559\end{array}$	4, 180 699 622 47 80 1, 458 152 1, 076 321 474	4, 573 677 605 44 28 1, 736 173 1, 101 391 495	4, 423 643 577 40 26 1, 704 111 1, 073 391 441	$\begin{array}{r} 4,519\\733\\661\\53\\19\\1,732\\88\\1,047\\454\\465\end{array}$	$\begin{array}{c} \textbf{3, 546} \\ \textbf{549} \\ \textbf{473} \\ \textbf{56} \\ \textbf{20} \\ \textbf{1, 100} \\ \textbf{61} \\ \textbf{936} \\ \textbf{430} \\ \textbf{470} \end{array}$	2, 285 586 528 51 7 593 44 688 99 275	4, 208, 981 814, 281 733, 180 60, 250 20, 845 1, 200, 328 149, 739 1, 455, 324 281, 108 308, 201
Subcoutractors	47 8 14 5 4 0 7 4 3 3 3 3 3	401 47 120 25 52 43 35 53 20 33 75 22 45 45	$\begin{array}{c} 413\\ 53\\ 130\\ 23\\ 64\\ 43\\ 29\\ 56\\ 28\\ 28\\ 28\\ 74\\ 21\\ 42\\ 8\\ 8\end{array}$	475 56 135 22 72 41 49 100 64 36 73 13 38 11	615 58 133 26 69 38 65 106 36 81 22 84 66	637 50 127 31 58 88 83 102 64 38 84 41 93 57	$\begin{array}{c} 668\\ 54\\ 130\\ 37\\ 52\\ 41\\ 89\\ 100\\ 64\\ 36\\ 102\\ 54\\ 91\\ 48\end{array}$	$\begin{array}{c} 609 \\ 54 \\ 142 \\ 45 \\ 48 \\ 49 \\ 63 \\ 94 \\ 64 \\ 30 \\ 104 \\ 53 \\ 64 \\ 35 \end{array}$	$\begin{array}{c} 631 \\ 58 \\ 137 \\ 47 \\ 38 \\ 52 \\ 69 \\ 103 \\ 73 \\ 30 \\ 114 \\ 60 \\ 55 \\ 35 \end{array}$	$\begin{array}{c} 642\\ 53\\ 143\\ 52\\ 35\\ 56\\ 66\\ 104\\ 73\\ 31\\ 121\\ 60\\ 62\\ 33\end{array}$	$\begin{array}{c} 602 \\ 54 \\ 107 \\ 56 \\ 38 \\ 73 \\ 52 \\ 97 \\ 66 \\ 31 \\ 96 \\ 61 \\ 41 \\ 34 \end{array}$	$\begin{array}{c} 529 \\ 50 \\ 154 \\ 48 \\ 35 \\ 71 \\ 47 \\ 90 \\ 63 \\ 27 \\ 79 \\ 60 \\ 45 \\ 4\end{array}$	468 02 150 30 87 74 28 61 37 24 66 53 45 3	$\begin{array}{c} 1,009,400\\ 109,632\\ 240,430\\ 55,557\\ 84,445\\ 100,428\\ 90,987\\ 163,749\\ 105,900\\ 57,843\\ 201,163\\ 94,169\\ 107,600\\ 52,730\\ \end{array}$
Length of working week 8 General contractors	1 5 2	$ \begin{array}{c} 1,232\\155\\93\\5\\228\\3\\589\\45\\96\\18\end{array} $	$1,077 \\ 174 \\ 88 \\ 5 \\ 229 \\ 4 \\ 470 \\ 50 \\ 35 \\ 22$	$1, 304 \\ 199 \\ 120 \\ 292 \\ 24 \\ 583 \\ 90 \\ 49 \\ 27$	2, 812 334 118 10 395 28 1, 653 185 62 27	3, 374 404 148 10 433 31 1, 990 240 83 35	3, 795 325 150 13 529 2, 274 240 187 35	$\begin{array}{c} 4,180\\ 339\\ 176\\ 9\\ 487\\ 36\\ 2,620\\ 240\\ 231\\ 42\end{array}$	4, 573 263 232 7 511 38 2, 797 340 345 40	$\begin{array}{r} 4,423\\ 238\\ 213\\ 0\\ 454\\ 43\\ 2,695\\ 340\\ 386\\ 45\end{array}$	4, 519 380 189 11 442 28 2, 670 335 419 45	$\begin{array}{c} \textbf{3, 546} \\ \textbf{325} \\ \textbf{141} \\ \textbf{11} \\ \textbf{445} \\ \textbf{26} \\ \textbf{2, 076} \\ \textbf{120} \\ \textbf{379} \\ \textbf{23} \end{array}$	2, 285 388 136 5 247 27 1, 199 73 185 25	4, 298, 081 426, 336 9, 092 375, 937 48, 653 2, 656, 339 200, 585 255, 778 20, 466
Subcontractors. 40-hour, 5-day week. 44-hour, 5-day week. 48-hour, 6-day week. 54-hour, 6-day week. 80-hour, 6-day week. All other not designated. Not reported.	47 1 34 2	401 .12 325 35 24 2 1 2	${ \begin{array}{c} 413 \\ 10 \\ 348 \\ 22 \\ 26 \\ 4 \\ 1 \\ 2 \end{array} }$	$475 \\ 8 \\ 390 \\ 28 \\ 35 \\ 11 \\ 2 \\ 1 \\ 1$	615 11 489 27 50 35 2 1	$egin{array}{c} 637 \\ 14 \\ 496 \\ 26 \\ 39 \\ 40 \\ 3 \\ 10 \end{array}$	$\begin{array}{c} 608 \\ 16 \\ 492 \\ 31 \\ 44 \\ 52 \\ 4 \\ 29 \end{array}$	$609 \\ 16 \\ 458 \\ 20 \\ 47 \\ 51 \\ 4 \\ 7 \\ 7$	$ \begin{array}{r} 631 \\ 16 \\ 479 \\ 20 \\ 47 \\ 55 \\ 4 \\ 4 \\ 4 \end{array} $	642 16 491 28 45 58 3 1	602 16 448 31 44 59 3 1	529 16 406 31 41 32 2 1	468 16 368 31 33 18 2	$\begin{array}{c} \textbf{1,000,400}\\ \textbf{16,558}\\ \textbf{874,713}\\ \textbf{58,076}\\ \textbf{62,300}\\ \textbf{40,661}\\ \textbf{3,826}\\ \textbf{13,266} \end{array}$

 1 Includes refuse disposal plant.
 4 Includes carpentering and woodflooring; plastering and lathing; and railroad.

 9 Includes masonry and stone work.
 6 Includes sewer, gas, water, conduit; dredging, river, harbor, etc., dam and reservoir; waterworks and levee.

 9 Includes masonry and stone work.
 7 Includes carpentering and wood flooring; plastering and lathing; and grading.

 9 Includes elevator construction; and ornamental iron.
 8 For complete classification, see tabulation for State above.

TABLE 8.--EXPENDITURES OF REPORTING ESTABLISHMENTS: 1929

			PRINCIPAL	ITEMS OF E	XPENDITURE .	l. I:		OTHEI	R ITEMS C	W ESPEN	OITURE	4999- 97 Aug 1 1 2 4 - 4999 5 5	
CLASSIFICATIONS OF ESTABLISHMENTS		Value of construc- tion busi-	Subcon-			i iii	ularies i	Ren	it fo r		Con- tract	Com- pensa-	Allothon
	report	ness re- ported	tract work let	Wages paid	Cost of materials	Propri- etors and firm mem- hers	Employ- ees	Equip- ment	Offices, etc.	Interest		liability insur- ance pre- miums	All other overhead expenses
NEBRASKA	297	\$35, 997, 620	84, 325, 000	89, 338, 785	815, 784, 218	8214, 778	81, 520, 171	879, 755	\$118, 501	\$216, 588	\$242, 661	8267, 467	\$2, 440, 878
General contractors Building not specialized Commercial building only Residential building only Bridge and culvert Grading ¹ Street paying Sever, gas, water, conduit ² Other classes ³	8 13 18 12 9 6 5	$\begin{array}{c} 28,602,613\\ 12,162,529\\ 10,936,797\\ 567,996\\ 657,736\\ 9,462,112\\ 1,412,666\\ 3,150,555\\ 1,228,892\\ 638,980\\ 546,879 \end{array}$	4, 152, 000 2, 712, 000 2, 385, 000 145, 000 982, 000 39, 000 30, 000 30, 000 29, 000 24, 000	$\begin{array}{c} 6, 969, 329\\ 2, 607, 924\\ 2, 354, 640\\ 126, 950\\ 126, 334\\ 2, 059, 195\\ 267, 339\\ 1, 414, 137\\ 299, 108\\ 156, 607\\ 155, 019 \end{array}$	$\begin{array}{c} 11, 674, 975\\ 5, 257, 333\\ 4, 816, 065\\ 201, 235\\ 240, 033\\ 4, 345, 571\\ 720, 859\\ 500, 500\\ 384, 359\\ 369, 594\\ 96, 759\\ \end{array}$	113,665 88,475 83,978 4,500 13,200 7,800 4,187	$\begin{array}{c} \textbf{1, 161, 920} \\ \textbf{445, 045} \\ \textbf{379, 043} \\ \textbf{40, 202} \\ \textbf{25, 860} \\ \textbf{368, 139} \\ \textbf{138, 762} \\ \textbf{55, 418} \\ \textbf{76, 399} \\ \textbf{17, 020} \\ \textbf{61, 137} \end{array}$	$\begin{array}{c} 72,877\\ 7,144\\ 6,874\\ 200\\ 70\\ 44,995\\ 615\\ 4,738\\ 7,328\\ 8,039\\ \end{array}$	$\begin{array}{c} 66,055\\ 15,971\\ 10,919\\ 2,952\\ 2,100\\ 29,564\\ 5,177\\ 7,233\\ 6,163\\ 1,195\\ 752\\ \end{array}$	$\begin{array}{c} 168, 621\\ 41, 750\\ 38, 307\\ 620\\ 2, 823\\ 66, 107\\ 27, 083\\ 12, 867\\ 9, 795\\ 5, 671\\ 5, 348 \end{array}$	$\begin{array}{c} 221, 214\\ 90, 299\\ 88, 317\\ 200\\ 1, 782\\ 83, 707\\ 13, 611\\ 4, 293\\ 14, 531\\ 9, 906\\ 4, 867\end{array}$	$\begin{array}{c} 219,735\\ 96,807\\ 58,334\\ 5,321\\ 3,152\\ 64,967\\ 12,482\\ 19,405\\ 10,726\\ 7,614\\ 7,734 \end{array}$	1,933,124 210,852 197,381 6,838 6,633 728,784 133,345 298,930 336,730 53,929 170,554
Subcontractors. Concreting 4. Electrical. Heating and plumbing. Heating and pipe covering. P.umbing. Plumbing and heating com-	77 5 8 36 8 17	7, 395, 007 276, 038 374, 680 2, 541, 317 587, 699 1, 019, 781	173,000 1,000 93,000 1,000 6,000	$\begin{array}{c} \textbf{1, 367, 436} \\ \textbf{72, 509} \\ \textbf{93, 885} \\ \textbf{496, 787} \\ \textbf{103, 664} \\ \textbf{214, 463} \end{array}$	$\begin{array}{c} 4,109,243\\145,094\\183,076\\1,366,502\\315,485\\562,769\end{array}$	$ \begin{array}{r} 101, 113 \\ \hline 12, 244 \\ 43, 651 \\ 4, 726 \\ 30, 625 \\ \end{array} $	$\begin{array}{c} 358, 251 \\ 19, 600 \\ 27, 261 \\ 149, 188 \\ 52, 907 \\ 51, 914 \end{array}$		52, 446 627 5, 822 27, 884 6, 249 15, 575	47, 967 803 2,042 13, 199 2, 456 7, 916	$\begin{array}{c c} 21,447\\ 874\\ 666\\ 8,506\\ 2,164\\ 969\end{array}$	47, 732 2, 107 2, 143 11, 041 2, 856 5, 683	$507,754 \\12,933 \\25,201 \\177,023 \\50,649 \\74,995$
bind. Painting and decorating Roofing and sheet-metal work. Roofing Sheet-metal work. Steel erection s Marble and tiling. Other classes s.	11 6 10 5 3 4 5	$\begin{array}{c} 933, 937\\ 215, 074\\ 1, 013, 887\\ 624, 498\\ 389, 389\\ 2, 189, 465\\ 500, 963\\ 283, 583\end{array}$	86,000 6,000 2,000 2,000 71,000	178, 660 90, 937 207, 661 117, 335 90, 326 201, 153 117, 854 81, 650	438, 248 43, 891 430, 879 277, 117 153, 662 1, 623, 662 291, 786 23, 329	8,300 9,000 9,878 9,878 10,000 16,340	$\begin{array}{r} 44,367\\ 14,567\\ 67,243\\ 60,459\\ 6,784\\ 56,292\\ 14,780\\ 9,320\\ \end{array}$	184 631 5,000	6,060 6,105 10,090 5,540 4,550 738 600 580	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	5, 373 50 869 8, 620 367 1, 495	2,502 2,970 10,800 4,760 15,047 1,350 2,274	51, 388 14, 908 173, 088 125, 763 47, 325 24, 511 28, 265 51, 825
ОМАНА	91	20, 200, 904	2, 430, 000	4, 817, 177	8, 247, 124	69, 110	912,715	51, 760	60, 032	116, 709	124, 356	140, 598	1, 607, 997
General contractors. Building Building not specialized Commercial building only Residential building only Highway. Bridge and culvert Grading Street paving. Other classes ¹ .	44 22 12 5 7 3 4 5 3	$\begin{matrix} 14, 328, 191\\ 4, 153, 902\\ 3, 485, 471\\ 397, 296\\ 271, 135\\ 4, 666, 023\\ 745, 970\\ 2, 943, 602\\ 1, 165, 266\\ 653, 428 \end{matrix}$	$\begin{array}{c} 2, 267, 000\\ 1, 195, 000\\ 962, 000\\ 93, 000\\ 140, 000\\ 661, 000\\ 30, 000\\ 336, 000\\ 25, 000\\ 20, 000\\ \end{array}$	$\begin{array}{c} \textbf{3, 791, 580} \\ \textbf{855, 152} \\ \textbf{724, 057} \\ \textbf{100, 250} \\ \textbf{30, 845} \\ \textbf{1, 033, 128} \\ \textbf{100, 539} \\ \textbf{1, 347, 762} \\ \textbf{281, 108} \\ \textbf{173, 891} \end{array}$	$\begin{array}{r} 4,928,610\\ 1,524,155\\ 1,317,573\\ 133,655\\ 73,217\\ 1,957,333\\ 357,106\\ 496,500\\ 361,417\\ 232,099 \end{array}$	20, 960 17, 960 13, 460 4, 500 	$\begin{array}{c} 607,847\\ 176,284\\ 118,252\\ 40,202\\ 17,800\\ 203,682\\ 76,736\\ 46,018\\ 70,290\\ 34,837\\ \end{array}$	49, 882 4, 394 4, 124 200 70 33, 224 3, 336 6, 428 2, 500	26, 952 9, 680 4, 623 2, 952 2, 100 5, 664 2, 600 2, 593 5, 663 752	$\begin{array}{c} 77,936\\ 7,266\\ 5,746\\ 20\\ 1,500\\ 26,553\\ 21,375\\ 7,349\\ 9,295\\ 6,098\\ \end{array}$	$\begin{array}{c} 104,780\\ 30,705\\ 30,070\\ 200\\ 435\\ 41,564\\ 7,109\\ 3,743\\ 13,504\\ 8,164 \end{array}$	$\begin{array}{c} 103,547\\ 36,014\\ 30,286\\ 4,695\\ 1,033\\ 27,440\\ 6,098\\ 17,726\\ 9,188\\ 7,081 \end{array}$	$1, 248, 992 \\ 59, 403 \\ 51, 979 \\ 3, 392 \\ 4, 032 \\ 360, 748 \\ 105, 990 \\ 228, 555 \\ 330, 190 \\ 164, 106 \\ 100 \\$
Subcontractors. Electrical. Heating and plumbing. Heating and pipe covering. Plumbing Plumbing and heating com-	$47 \\ 7 \\ 16 \\ 5 \\ 6 \\ 16 \\ 5 \\ 6 \\ 16 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 $	$5,872,713\\345,146\\1,529,672\\338,427\\515,683$	163, 000 86, 000	$1,025,597 \\95,928 \\277,310 \\55,557 \\94,325$	$\begin{array}{c} \textbf{3, 318, 514} \\ \textbf{168, 076} \\ \textbf{804, 031} \\ \textbf{162, 485} \\ \textbf{297, 221} \end{array}$	$\begin{array}{r} 48,150\\ 9,844\\ 9,126\\ 4,726\\ 2,400 \end{array}$	$\begin{array}{c} 304,868\\ 24,904\\ 115,116\\ 49,789\\ 26,987 \end{array}$	1, 878	$\begin{array}{r} \textbf{33,080} \\ \textbf{5,222} \\ \textbf{11,775} \\ \textbf{4,977} \\ \textbf{3,858} \end{array}$	38, 773 1, 357 5, 767 1, 793 2, 374	19,576 656 7,095 1,512 450	37,051 2,098 5,626 1,609 2,598	359, 005 20, 274 101, 043 43, 850 30, 873
Painting and decorating Painting and decorating Roofing and sheet metal work. Roofing Sheet metal work Steel erection 4 Marble and tiling Other classes 8	5 6 7 4 3 3 5	675, 562 215, 074 780, 084 562, 832 217, 252 2, 189, 465 446, 492 366, 780	86,000 6,000 2,000 2,000 69,000	$\begin{array}{c} 127,428\\90,937\\163,749\\105,906\\57,843\\201,153\\103,621\\92,899\end{array}$	$\begin{array}{r} 344,325\\ 43,891\\ 348,781\\ 247,805\\ 70,976\\ 1,623,655\\ 271,786\\ 88,263\\ \end{array}$	2,900 9,000 10,000 10,180	$\begin{array}{c} 38,340\\ 14,567\\ 59,769\\ 57,664\\ 2,105\\ 56,292\\ 13,740\\ 20,450 \end{array}$	184 631 1, 063	2,9406,1057,6234,5133,1107386001,017	1,600859,4438,67177219,258942,769	5, 133 50 869 8, 620 367 1, 919	1,4192,9707,7875,2292,55815,0471,0662,457	26, 320 14, 908 128, 793 107, 433 21, 360 24, 511 20, 318 49, 158

¹ Includes air-transport work.
² Includes refuse disposal plant.
³ Includes dam and reservoir; and dredging, river, harbor, etc.
⁴ Includes masonry and stonework.
⁵ Includes elevator construction and ornamental iron.
⁶ Includes carpentering and wood flooring; plastering and lathing; graving; and railroad.
⁷ Includes sever, gas, water, conduit, dam and reservoir; and dreking, river, harbor, etc.
⁸ Includes carpentering and wood flooring; concreting; plastering and lathing; stonework; and grading.

127100-33-47

TABLE 9.—COST OF MATERIALS FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929 BY KIND والمستعفية والمراجع والمعاد معترات

	COST	OF MA	TERIALS	REPORTED	BY-		cost c)F MA7	TERIALS	REPORTED	<u>вү</u>
KIND OF MATERIAL	All classes m	ents		··· ••		KIND OF MATERIAL	All classes m	ents			
	Amount	Per cent dis- tri- bu- tion	Per \$1,000 construction work done ¹	General contrac- tors	Subcon- tractors	AIND OF RAISERAL	Amount	Per cent dis- tri- bu- tion	Per \$1,000 construction work done ¹	General contrac- tors	Subcon- tractors
NEBRASKA						ОМАНА		·			
All kinds of material Distribution not reported	\$18, 630, 503 2, 981, 458	16.0	\$462.13	\$14, 404, 266 2, 249, 259	\$4, 226, 237 732, 199	All kinds of material Distribution not reported	\$9, 417, 534 532, 376	5.7	\$446. 37	\$6, 042, 920 235, 315	\$3, 374, 614 297, 061
Distributed by kind	15, 649, 045	100.0		12, 155, 007	3, 494, 038	Distributed by kind Sand, gravel, stone, slag, cinders,	8, 885, 158	100. 0		5, 807, 605 1, 436, 655	3, 077, 553
said, gravel, solie, sing, childers, etc. Brick (face, common, fire, paving, etc.) Tile (fireproofing)_ Tile, facing, tarra cotta, floor, and wall Concrete and cinder block. Cut sfore, gravita and morble	573, 821 129, 868	3.7	16.95	571, 821	2,000	etc. Brick (face, common, fire, paving, etc.) Tile (fireproofing)		2.1	9. 51	189, 293	
Tile, facing, terra cotta, floor, and wall Concrete and cinder block Cut stone, granite and marble Riprap, rubble, etc. Cement Lime	175, 618 68, 115 383, 991 181, 977 2, 329, 200	1 1 1	2, 01 11, 34 5, 37 68, 78	103, 440 59, 717 154, 775 181, 977 2, 266, 465	72, 178 8, 398 229, 216	Brick (tace, common, ire, paving, etc.)	130, 989 48, 365 283, 596 1, 500 1, 294, 124	1.5 .5 3.2 (³)	2, 43 14, 25 . 08 65, 01	58, 811 39, 967 54, 380	72, 178 8, 308 229, 216 29, 735
Lime. Plaster, etc. Structural steel. Reinforcing steel. Cast iron, miscellaneous, exclud- ing pipe. Metal doors, windows, and trim. Metal doors, windows, and trim.		. 4 2 14. 6 4. 0	1, 31 2, 06 67, 26 18, 40	65,764 1,477,608 542,624	4,000 800,000 80,500	Lime. Plaster, etc Structural steel. Reinforcing steel. Cast iron, miscellaneous, exclud- ing pipe. Metal doors, windows, and trim Metal and wire lath and furring Ornerwich metel work	17, 413 28, 031 1, 807, 617 323, 384	20.3 20.3 3.0	. 87 1,41 90.81 16.25	16, 413 24, 031 1, 007, 617 243, 384	1,000 4,000 800,000 80,000
Metal doors, windows, and trim Metal and wire lath and furring Ornamental metal work Lumber, rough and finished Lath, shingles, and shakes (wood)	58 169	.4	1.79 2.51 1.72 29.87	60, 507 85, 038 58, 169		Metal doors, windows, and trim Metal and wire lath and furring Ornamental metal work Lumber, rough and finished Lath, shingles, and shakes (wood).	30, 124 31, 300 41, 265 55, 735 351, 427 980	. 6 4. ((8)	1.57 2.07 2.80 17.65	31, 300 41, 265 55, 735 349, 212	
Millwork. Composition board Waterproofing materials. Hardware, rough and finished Paints, varnishes, glass. Roofing and sheet metal. Finished flooring (other than ce- ment, wood, or tile)		.1 .1 1.1	14.31 1.07 .32 5.27 4.39	80, 870 9, 524 177, 074 100, 977	5,500 1,500 1,385 47,920	Lumber, rough and finished Luth, shingles, and shakes (wood). Millwork Composition board Waterproofing materials Hardware, rough and finished Paints, varnishes, glass Roofing and sheet metal	4, 723 41, 380 112, 924 292, 555	1.0 .2 .1 .5	1.01 .24 2.08 5.67	92, 145 14, 679 3, 223 39, 995 65, 004	5, 50 1, 60 1, 38 47, 92
Finished flooring (other than ce- ment, wood, or tile) - Screens, shades, awnings, etc Heating and ventilating equip-	74, 937 8, 675		2, 21	74, 937		Finished hooring (other than ce- ment, wood, or tile) Screens, shades, awnings, etc	14, 246 1, 750			14.246	
Plumbing and gas fitting equip- ment.	361, 838 502, 912			14, 211 20, 760		Heating and ventilating equip- ment. Plumbing and gas fitting equip- ment	265, 753 353, 823		1		
Electrical appliances and supplies	215 140	1.4	6.35	10, 564	204, 576	ment Electrical appliances and supplies. Elevators, dumb-waiters, and equipment.	184, 656	2,1	9. 28	1 1	
Elevators, dumb-waiters, and equipment		2.0	13. 42	449, 161	5, 225	Elevators, dumb-waiters, and equipment Pipe: Drain tile, vitrified, con- crete, segment tile, corrugated Pipe: Cast-iron, sheet and tube		3.6	15. 97	317, 297	500
steel, etc	253, 514 135, 620	1	4.01			steel, etc. Wire cable, guards, and fencing. Bituminous paving materials, tar, asphalt, and oil.	178, 983 15, 505		. 78		
Bituminous paving materials, tar, asphalt, and oil	143, 738 476, 264 1, 664 25, 000	3.0	14.06	1,664	3, 877	Metal products, n. e. s. (including	1,664	(3)	4.56 .08	1, 664	
Machinery Metal products, n. e. s. (including metal furniture) Sealing materials. Textiles and calking materials.	1, 942 896 243	8	.06	1, 942 896		metal furniture) Miscellaneous	58, 522				
Miscellaneous	165, 298	1.1			500						

1 The value of construction work done is obtained from figures presented in Table I, by subtracting the value of subcontract work let from the total value of construction

¹ The value of construction work done is obtained from ngures presented in 1 about, by substantiating the value of construction work done is obtained from ngures presented in 1 about, by substantiating the value of construction work done is obtained from ngures presented in 1 about, by substantiating the value of construction work done is obtained from ngures presented in 1 about, by substantiating the value of construction work done is obtained from ngures presented in 1 about, by substantiating the value of construction work done is obtained from ngures presented in 1 about, by substantiating the value of construction work (on which this material was used) was done on contracts outside this area. ³ The percentage of total cost shown for this item is high because establishments located within this area reported that the large part of their construction work (on which this material was used) was done on contracts outside this area.

TABLE 10.—COMPARISON OF COST OF DESIGNATED MATERIALS FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929, WITH COST OF MATERIALS AND VALUE OF CONSTRUCTION BUSINESS

[Based exclusively upon reports of establishments which gave the distributed cost of materials]

		COST OF MAT	DESIGN			Indi-			COST OF I MAT	ESIGN ERIAL			Indi-
KIND OF MATERIAL AND CLAS-	Cost of all materials			cent	Value of construc-	cated per cent of all	KIND OF MATERIAL AND CLAS-	Cost of all materials			cent	Value of construc-	cated per cent of all
SIFICATION OF ESTABLISH- MENTS	distrib- uted by kind	Amount	Total cost	Cost of all distributed materials	tion busi- ness	busi- ness done by own force ¹	SIFICATION OF ESTABLISH MENTS	distrib- uted by kind	Amount	Total cost	Cost of all distributed materials	tion busi- ness	busi- ness done by own force ¹
NEBRASKA			<u> </u>				NEBRASKA-Continued						
Sand, gravel, stone, slag, cinders, etc. ²				ł			Structural steel—Con.						
All classes	\$15, 649, 045	\$2, 686, 758	100. 0	17. 2	\$36, 471, 884	88. 9	General contractors-Con.	\$4, 335, 962	\$219, 934	9,7	5 1	\$9, 555, 923	91.0
General contractors	312, 155, 007	2, 657, 342	98, 9 8, 0	21. 9	130, 340, 229	87.1 78.1	Bridge and culvert	1, 147, 843	794,052		69.2	2, 309, 602	98. 87.
Building Building not specialized Commercial building only	3,712,043	215, 681 200, 091 13, 610	7.4	5.4	430, 340, 229 9, 293, 926 8, 537, 010 310, 296	78.5	Highway Bridge and culvert Grading Street paving Sewer, gas, water, conduit	399,301	1,800	1	.5	1, 156, 441	97. 94, 1
Decidential building only	1 163 929	1,980	65, 8	1, 1, 2	9, 555, 923	91.0	Subcontractors Steel erection			35.1	1	4 6, 131, 655 1, 213, 000	
Highway Bridge and culvert Grading	1, 147, 843	91,706 304,000	3.4	8.0 60.7	2, 309, 602 2, 806, 325	98.5 87.9		. \$900,000	800,000	35.1	88.9	1, 213, 000	100.0
Street paving Sewer, gas, water, conduit Dam and reservoir	399, 301 315, 522	103,685 26,121	3.9	8.3	1,156,441 523,645	97.7	Reinforcing steel					0.0 /01/00/	
Waterworks	1 397.000	135,000	(°) 5.0	4. 0 34. 0	817,490	55, 3 100, 0	All classes				-	·	
Refuse disposal plant	54,072	11,330		Ι.	115, 335	100.0	General contractors Building Building not specialized Commercial building only. Residential building only.	3,994,943	542, 624	33, 0) 5,1	9, 293, 926	3 78,
Subcontractors	3, 494, 038 80, 164	29, 416 13, 854	. 5	17.3	4 6, 131, 655 131, 054 4 1, 677, 714	97.8 99.4	Commercial building only.	118,971	202, 089 3, 075 330	. 5	2.6	310.296	3 76.
Heating and plumbing	861,857 102,485	700	(5)	.1	190, 927	1 99.8	Highway	4, 335, 962	210,000	39.4	5.7	9, 555, 92	3 91.
Subcontractors. Concreting. Heating and plumbing. Heating and piping Plastering and lating Roofing and sheet-metal work. Boofing.	3 200 970	3,000 2,000				1	Grading	500, 500	20,000	3.2	4.0	2, 806, 320	5 87.1
Roofing Marble and tiling	277,117		.1	.7	624, 498	1 100.0	Highway_ Bridge and oulvert_ Grading Street paving Sewer, gas, water, conduit Dam and reservoir Refuse disposal plant	315, 522 15, 858	5, 360	.9	1,7	523, 645	94. 55,
Brick (face, common,	200,050	0,002			104,017	10010	Refuse disposal plant	54, 072	2, 233	.4	4.1	115, 335	100.
fire, paving, etc.) All classes	15, 649, 045	573, 821	100.0	3.7	36, 471, 884	88.9	Subcontractors Concreting Steel erection	³ 3, 494, 038 80, 164	80, 500 500	1	6	131.054	99,4
General contractors	\$12, 155, 007	571, 821	99, 7					900, 000	80,000	12.8	8.9	1, 213, 000	100,0
Building Building not specialized Commercial building only	3, 994, 943 3, 712, 043 118, 971	524, 245	91.4	13.7 14.1	8, 537, 010	78.1 78.5	Lumber, rough and Anished						
Recidential building only	1 163, 929	9,336	2,6	12.6 5.7	310, 296 446, 620	76.8	All classes			100. 0	6.5	36, 471, 884	88.9
Street paving Sewer, gas, water, conduit Refuse disposal plant	4, 335, 962	88 88	(8)	1 17	1, 156, 441	91.0 97.7 94.5	General contractors	³ 12, 155, 007	1,009,366 462,674	99, 8 45, 7	8.3 11.0	⁴ 30, 340, 229 9, 293, 926	87. 78.
Refuse disposal plant	315, 522 54, 072	2, 932 220	(^b).5	.9	1, 156, 441 523, 645 115, 335	100.0	General contractors Building Building not specialized Commercial building only. Residential building only.	3, 712, 043	378, 392	37.4 2,8	10.2	8, 537, 010 310, 296	78.
Subcontractors	³ 3, 494, 038 80, 164	2,000 2,000	.3		4 6, 131, 655 131, 054	97. 8 99, 4	Residential building only.	163, 929	56, 042 180, 503	5, 5	34.2	446, 620	73.5
Cut stone, granite and	-	2,000		2.0			Highway Bridge and culvert Grading	4, 335, 962 1, 147, 843 500, 500	97, 168 30, 000	9.6 3.0	1 6.0	2.806.325	98. 87.
marble All classes	15, 649, 045	383, 991	100.0	2.5	36, 471, 884	88, 9	Street paving Sewer, gas, water, conduit	399, 301 315, 522	3, 929 2, 354	.4	1.0	1, 156, 441	97. 94.
			40, 3		¹ 30, 340, 229 9, 293, 926		Street paving Sewer, gas, water, conduit Dam and reservoir Dredging, river, harbor, etc. Refuse disposal plant	15,858 994,006	225,858	. 3 22, 3	17.2 22.7	145,000 3,616,542	95.
General contractors Building Building not specialized Commercial building only_	3, 994, 943 3, 712, 043	154, 775 153, 335	40.3 39.9	4.1	8, 537, 010	78.1 78.5	Refuse disposal plant	54, 072 3 3, 494, 038		.4 ,2		115,335 • 6, 131,655	
Commercial building only. Residential building only.	. 103,929	1. 40	(5).4	(5)	446, 620	73.2	Carpentering and wood- flooring	3, 429					1
Subcontractors Stone work Marble and tiling	³ 3, 494, 038 67, 270 256, 386	229, 216 67, 270 161, 946	59.7 17.5 42.2	6.6 100,0	4 6, 131, 655 183, 143 404, 877	97.8 100.0	Millwork					$-x \pm \alpha^{2}$	1. S.
Marble and tiling Cement ²	256, 386	161, 946	42, 2	63, 2	404, 877	100. 0	All olasses	⁶ 15, 649, 045	484, 561	100.0	3, 1	736, 471, 884	88.9
All classes	15, 649, 045	2, 329, 200	100. 0		36, 471, 884		General contractors	312, 155, 007	484, 561 484, 561	100.0	4.0 12.1	130, 340, 229	87.1 78.1
	312, 155, 007		97.3	18.6	430, 340, 229 9, 223, 926 8, 537, 010 310, 296 446, 620 9, 555, 923 2, 309, 602 2, 806, 325 1, 156, 441 523, 645 145, 000 115, 335	87.1	Building Building not specialized Commercial building only	3, 994, 943 3, 712, 043 118, 971	438, 689	90, 5	11.8 3.2 25.7	430, 340, 229 9, 293, 926 8, 537, 010 310, 296 446, 620	78.0
General contractors Building Building not specialized Commercial building only Residential building only Highway Bridge and culvert Grading	3, 994, 943	301, 414	13.6 12.9	8.1	8,537,010	78.1 78.5 76.8	Residential building only.	163, 929	42, 122	8.7	25. 7	446, 620	73.2
Residential building only.		1,400	.6 .1 67.5	.9	446, 620	73.2 91.0	Roofing and sheet metal						. • .
Bridge and culvert Grading Street paving	1, 147, 843	73,415	3. 2 3. 4	6.4 16.0	2,309,602	98.5 87.9	All classes			100, 0		36, 471, 884	1
Street paving Sewer, gas, water, conduit	399, 301 315, 522 15, 858 54, 072	198,760 14,127	8.5	49,8	1, 156, 441 523, 645	97.7 94.5	General contractors	* 12,155,007 3,994,943 3,712,043	50, 489 48, 139 42, 839 5, 000	11.5 11.0	, 4 1, 2	30, 340, 220 9, 293, 926	87. 78.
Dam and reservoir Refuse disposal plant	15,858	3,507 7,086	.2	22.1 13.1	145,000 115,335	55, 3 100, 0	Building Building not specialized Commercial building only	118,971	42, 839 5, 000	9.8 1.1	1.2	8, 537, 010	78.
Subcontractors	. 03,494,038	02.730	4.1	1.8	148 131 855	1 97/X	Residential building only_ Bridge and culvert	163, 929	300 2,350	.1	1.2 1.2 4.2 .2	4 30, 340, 220 9, 293, 926 8, 537, 010 310, 296 446, 620 2, 309, 602	73.2 98,4
Concreting Marble and tiling	80, 164 256, 386	51, 535 11, 200	2.2		131, 054 404, 877	100.0	Subcontractors Heating and plumbing	³ 3, 494, 038 ³ 861, 857	386, 932 7, 000 6, 000	88.5 1.6	11, 1	6, 131, 655 4 1, 677, 714	97.8 96.8
Structural steel ? All classes	15 649 045	2, 277, 608	100 0	14. H	36, 471, 884	88,9	Heating and piping	³ 861, 857 102, 485 511, 183	6, 000 1, 000	1.4 .2	5.9	190, 927 919, 458	99.8 99.4
General contractors	312 155 007	1.477.608	64.9	12, 2	120 240 220	87 1	Plumbing Roofing and sheet-metal work				95.0	914, 504	99.8
Building not specialized	3, 994, 943	401 079	17.6	10.0	9,293,926 8,537,010	78.1 78.5	Roofing Sheet-metal work	399, 879 277, 117 112, 567	379, 932 269, 617 102, 467	61. 6 23. 4	97. 3 91, 0	624, 498 263, 039	100. (99. 4
Commercial building only. Residential building only.	118,971 163,929	396, 806 2, 500 1, 773	.1	2, 1	310, 296 446, 620	76.8 73.2	Roofing and sheet-metai		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.8	77.0	26, 967	100. (
See footnotes at and of tabl	· · · ·			•		1.1.1	and the second second second			5 J			

See footnotes at end of table.

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TABLE 10.—COMPARISON OF COST OF DESIGNATED MATERIALS FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929, WITH COST OF MATERIALS AND VALUE OF CONSTRUCTION BUSINESS— Continued

[Based exclusively upon reports of establishments which gave the distributed cost of materials]

		COST OF D MATH	ESIGN. ERIAL	ATED		Indi-	-		COST OF I MAT	ESIGN	ATED		Indi
ND OF MATERIAL AND CLAS-	Cost of all materials		Per of		Value of	cated per cent of all	KIND OF MATERIAL AND CLAS-	Cost of all materials		Per of		Value of construc-	per cent of al
AD OF MALENAL MAN OMES SILCATION OF ESTABLISH- MENTS	distrib- uted by kind	Amount	Total cost	Cost of all distributed materials	construc- tion busi- ness	busi- ness done by own torce ¹	SIFICATION OF ESTABLISH- MENTS	distrib- uted by kind	Amount	Total cost	Cost of all distributed materials	tion himi.	busi ness done by own force
NEBRASKA-Continued							NEBRASKA-Continued				· · · ·		
leating and ventilating equipment							Pipe: Drain tile, vitrified, concrete, segment tile, corrugated—Continued						
All classes eneral contractors Building not specialized Commercial building only. Residential building only.	³ 12, 155, 007 3, 994, 943 3, 712, 043 118, 971	14, 211 14, 211 7, 061 1, 600	100.0 3.9 3.9 2.0 .4 1.5	.1 .4 .2 1.3	\$36, 471, 884 430, 340, 229 9, 293, 926 8, 537, 010 310, 206 446, 620	88.9 87.1 78.1 78.5 76.8 73.2	Subcontractors Heating and plumbing Plumbing and piping Plumbing and heating combined	102,485	500	.1	.5	919, 458	7 99. 8 99.
Hesitien and heating Plumbing and heating	⁸ 3, 494, 038 199, 576	347, 627 500 339, 380 5 57, 602 60, 000	96.1 1 93.8	9.9 39.4 50.2 100.0	$egin{array}{c} 4 & 6, 131, 655 \\ & 412, 180 \\ 1, 677, 714 \\ & 190, 927 \\ & 147, 500 \end{array}$	97.8	Pipe: Cast-iron, sheet and tube steel, etc. All classes General contractors Building not specialized Residential building only. Urburger	15, 649, 045	253, 514 232, 014 10t:	91. 5 (⁵)	1.6 1.9	36, 471, 884 430, 340, 229 49, 293, 920 8, 537, 010 446, 620	4 88 9 87 6 78 0 78
Flumbing and heating combined Roofing and sheet-metal work. Sheet-metal work. Roofing and sheet-metal combined.	188, 189 399, 870 112, 563	0 66, 582 7, 747 7 5, 400	18. 4 2. 1	35.4 1.9 4.8	419, 829 4 914, 504 263, 039	91. 3 99. 8 99. 4	Building not specialized Residential building only. Highway. Bridge and culvert Street paving Sewer, gas, water, conduit Waterworks. Refuse disposal plant	1, 147, 843 399, 801 315, 522 397, 000	4, 630 4, 692 133, 437 34, 000	(6) 18.5 1.8 1.9 52.6 13.4	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	9,555,92 2,309,60 1,156,44 523,64 817,49	3 91 2 98 1 97 5 94 0 100
Plumbing and gas fitting equipment		5 502, 912	100.0	3.5	36, 471, 884	88.9	Subcontractors Electrical Heating and plumbing	8 3, 494, 038 199, 576 8 861, 857	21, 500 1, 500 20, 000	8. 5 . 6 7. 9	5, 63 , 82.3	46, 131, 65 412, 18 41, 677, 71	5 97 0 100 4 98
All classes General contractors Building Building not specialized	3 12, 155, 00 3, 994, 94	7 20.760	4. 1 3. (1. 2		4 30, 340, 229 9, 203, 920 8, 537, 010	87.1	Plumbing Wood piling and timber	511, 183	20,000				
Commercial building only Residential building only Highway Street paving	[] 163,92	1 2,000 9 9,580 2 965 1 1,797) 5.8 2 (⁶)	9, 555, 923	91.0	All classes General contractors Bridge and culvert	1, 147, 84	476, 264 3 3, 200	100.			29 87)2 98
Subcontractors Heating and plumbing Heating and piping	³ 3, 494, 03 ³ 861, 85 102, 48	8 482, 152 7 482, 152 5 37, 283	2 95.9 3 7.4) 55. 1 36.	$ \begin{array}{r} 4 & 6, 131, 655 \\ 4 & 1, 677, 714 \\ 190, 927 \\ 010 & 455 \end{array} $	96.5 99.8	Dredging, river, harbor, etc OMAHA Sand, gravel, stone, slag,				-		
Plumbing and heating combined	5 - S	5 - B. S.					All classes		3 1, 461, 071	100.	0 18.	4 21, 015, 64	11 8
Electrical appliances and supplies							General contractors. Building. Building not specialized Commercial building only	5,807,60	0 85,238 71,828	5. 3 4.	8 6. 9 6.	$5 \ 3, 540, 11 \ 2 \ 3, 115, 97$	15 71 70 72
All classes General contractors Building of specialized. Commercial building only Residential building only	3 12, 155, 00 3, 994, 94 3, 712, 04 118, 97	10, 564 3 10, 564 3 10, 564 3 4, 364 1 2, 900	4. 4. 4. 2.	$ \begin{array}{c} 0 \\ 0 \\ 3 \\ 2. \end{array} $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	87.1 78.1 78.5 76.8	Residential building only. Highway Bridge and culvert Grading Street poving	2, 125, 63 - 2, 125, 63 - 851, 23 - 496, 50 - 399, 30	7 410 3 737, 886 2 54, 210 0 800, 000 1 103, 68 1 20, 000	$ \begin{array}{c} (5) \\ $	5 34. 7 6. 5 60. 1 26.	172, 84 7 5, 172, 38 4 1, 770, 87 4 2, 700, 00 0 1, 233, 26	87 8 70 9 00 8 66 9 49 10
Subcontractors. Electrical Heating and plumbing Plumbing and heating combined	a 3, 494, 03 199, 57 3 861, 85	76 197, 576 57 7, 000) 91.) 3.		9 4 6, 131, 65 0 412, 180 8 4 1, 677, 714		Waterworks Subcontractors Concreting		0 135, 00 3 24, 41 4 8, 85	0 9. 0 1	2 34. 7	0 817, 41 8 4 5, 344, 40 3 73, 0	90 10
combined Elevators, dumb-waiters and equipment		39 7,000	3.	3 3.	7 419, 82	9 91.3	Heating and plumbing Heating and plping Plastering and lathing Roofing and sheet meta work		5 70 0 3,00	0 (?) 0 ·	2 00.	7 190, 9	27 10 00 10
All classes General contractors Building Building not specialized Commercial building only Residential building only	3 12, 155, 00	35.43	1 5	0 0 2 7 10.	6 8, 537, 01 3 310, 29	0 87 1	Marble and tiling Brick (face, common, fire paving, etc.)		5 2,00 6 9,86	2	1 7 3.	8 265,8	32 10 77 10
Residential building only Subcontractors Elevator construction		673, 68	6 95.		3 + 6, 131, 65	- E .	General contractors Building Building not specialized	3 5, 807, 60 1, 305, 84 1, 167, 5 86, 7	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			9 3, 115, 9	15
Pipe: Drain tile, vitrified concrete, segment tile corrugated	,		0 100	0	0 26 471 00	88.0	Street paying	- 399, 3	17 78	52 38 (⁴)	.41 1.	.5 172,8 1,233,2	349 206
All classes General contractors Building Building not specialized	³ 12, 155, 0 ³ 3, 994, 9	07 449, 16 43 50 43 50	0.	9 3. 1 (³) 1 (⁵)	7 430, 340, 22 4 9, 293, 92 8, 537, 01	29 87.1 26 78.1 10 78.5	floor, and wall All classes	3 5, 807, 6	05 58, 8 40 58, 8	$\begin{array}{c c} 39 & 100 \\ 11 & 44 \\ 11 & 44 \end{array}$	9 1	$\begin{array}{c} 5 \\ 21,015,0 \\ \hline 0 \\ 15,671,1 \\ 5 \\ 3,540,1 \\ \hline 6 \\ 3,115,9 \end{array}$	177
Building not specialized Highway. Bridge and culvert. Grading. Street paving Sewer, gas, water, conduit. Waterworks. Refuse disposal plant	4, 335, 9 1, 147, 8 500, 5 399, 3 15, 5	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{vmatrix} 0 \\ 1 \\ 4 \\ 26 \end{vmatrix}$	$ \begin{array}{cccc} 2 & 1, \\ 2 & 1, \\ 4 & . \\ 0 & 1, \\ 7 & 38 \end{array} $	$\begin{array}{c}9\\86,471,88\\7&430,340,22\\(9,203,02\\8,537,01\\5&9,555,92\\3&2,309,60\\4&2,806,33\\1&1,156,44\\5&523,64\\4&817,44\\9&115,33\end{array}$	91.0 92 98.4 25 87.9 41 97.7 45 94.4	Building Building not specialized Commercial building on Residential building on Subcontractors Marble and tiling		73 53, 6 50 6 17 4, 5	73 41 00 38 3	.0 4 .5 .5 8	. 6 3, 115, 9 . 7 251, 5 . 8 172, 8 . 3 4 5, 344, 4	296 849

See footnotes at end of table.

TABLE 10.—COMPARISON OF COST OF DESIGNATED MATERIALS FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929, WITH COST OF MATERIALS AND VALUE OF CONSTRUCTION BUSINESS— Continued

[Based exclusively upon reports of establishments which gave the distributed cost of materials]

		COST OF 1 MAT	DESIGN ERIAL			Indi- cated			COST OF 1 MAT	DESIGN			Ind
NIND OF MATERIAL AND CLAS- SIFICATION OF ESTABLISH-	Cost of all materials distrib-			cent	Value of construc-	per cent of all busi-	KIND OF MATERIAL AND CLAS- SIFICATION OF ESTABLISH	Cost of all materials distrib-		Per of	cent	Value of construc-	per cen of a bus
MENTS	uted by kind	Amount	Total cost	Cost of all distributed materials	tion busi- ness	done by own force 1	MENTS	uted by kind	Amount	Total cost	Cost of all distributed materials	tion busi- ness	don by own force
OMAHA-Continued							OMAHA-Continued					••••••••••••••••••••••••••••••••••••••	
Cut stone, granite and marble					5		Paints, varnishes, glass				18. s	1 	
All classes	\$8, 885, 158	\$283, 596	100. 0	3, 2	\$21, 015, 641	88.4	All classes General contractors	3 5, 807, 605	\$112, 924 65, 004			\$21, 015, 641 4 15, 671, 177	85
Beneral contractors Building Building not specialized Commercial building only	86,750	52, 980 1, 400	19.2 18.7 .5		4 15,671, 177 4 3, 540, 115 3, 115, 970 251, 296		Building Building not specialized Commercial building only. Residential building only. Highway Bridge and culvert.	86, 750 51, 517 2, 125, 633	1,700 460 1,760	51, 4 1, 5	5.0 2.0 .9 .1	3, 115, 970 251, 296 172, 849 5, 172, 387	72 76 48 87
ubcontractors Stone work Marble and tiling	³ 3, 077, 553 67, 270 256, 386	229, 216 67, 270 161, 946	80.8 23.7 57.1	7.4 100.0 63.2		97.3 100.0 100.0	Subcontractors Carpentering and wood-		47,920			4 5, 344, 464	
Cement ²	200, 500	101, 040	01.1	00.2	10101	100,0	Painting and decorating	3, 429 43, 891	1, 029 43, 891	. 9 38, 9	30, 0 100, 0		100
All classes	8, 885, 158	1, 294, 124	100. 0	14.6	21, 015, 641	88.4	Roofing and sheet-metal work	\$ 287, 781	3,000		1.0	4 680, 701	99
Building	⁸ 5, 807, 605 1, 305, 840 1, 167, 573 86, 750	$1,264,389\\104,471\\93,659$	97.7 8.1	8.0	4 15,671, 177 3, 540, 115	85.4 71.5	Sheet-metal work Roofing and sheet metal	39, 976	8,000	2.7	7,5	117,869	9 99
Building not specialized Commercial building only Bosidential building only		93, 659 10, 500 312	7.2 .8 (5)	8.0 12.1	071 000	72.7 76.0 48.3	All classes		292, 555	100. 0		21, 015, 641	
Highway Bridge and culvert	51, 517 2, 125, 633 851, 232	857, 221 20, 430 80, 000) 06.2	2.4	5, 172, 387 1, 770, 870	87. 0 98. 3	General contractors	3 1 305 840	16, 374 14, 024	5.6	1,1	4 15,071,177 4 3,540,115	7
Bighway Bridge and culvert Grading Street paving Dam and reservoir	851, 232 496, 500 399, 301 15, 858	80, 000 198, 760 3, 507	6.2 15.4 .3	16.1 40.8 22.1		88.3 98.0 42.4	Building Building not specialized Commercial building only Bridge and culvert	1, 167, 573 86, 750 851, 232	12, 024 2, 000 2, 350	4.1 .7 .8	1.0 2.3	251, 298	71 76 98
Subcontractors Concreting Marble and tiling	3 3, 077, 553	29, 735 18, 535	2.3	1.0	1 5, 344, 404 73, 054	97. 3 100. 0	Subcontractors Heating and plumbing Heating and piping Roofing and sheet-metal	³ 3, 077, 553 ³ 612, 970 102, 485	276, 181 6, 000 6, 000	2.1	1, 0 5, 9		94 100
Structural steel ³ All classes	8 885 158	1, 807, 617	100.0	20.3	21, 015, 641	88.4	Roofing Sheet-metal work	287, 781 247, 805 39, 976	270, 181 240, 305 29, 876	92, 4 82, 1 10, 2	93.9 97.0 74.7	680, 701 562, 832 117, 869	100
				17.3	415,671, 177	85.4	Heating and ventilating	00,010				λ	
General contractors. Building Building not specialized. Commercial building only Descionated building only	1, 305, 840 1, 167, 573 86, 750	90, 321 86, 668 2, 500	5.0 4.8		3, 115, 970	71, 5 72, 7 76, 6	equipment All classes	8 885 158	205, 753	100, 0	3.0	21, 015, 641	88
		190, 726	10.6	2.2 9.0	172 840	48 3 1	General contractors	³ 5, 807, 605 1 305, 840	3, 280 3, 280	1 2	.1	4 15,071,177	88
Highway Bridge and culvert Grading Street paving	851, 232 496, 500 399, 301	664, 770 60, 000 1, 800	36.8 3.3 .1	12,1	2,700,000	98.3 88.3 98.0	General contractors Building Building not specialized Commercial building only.	1, 167, 573 86, 750	1, 680 1, 600	. 6 . 6	, 1 1, 8	3, 115, 970	7: 7:
Subcontractors	3 3, 077, 553	800, 000	44.3	26.0	4 5, 344, 464	97. 3			262, 473 500	. 2	.3	4 5, 344, 464 382, 640	3 10
Steel erection	900, 000	800, 000	44. 3	88,9	1, 213, 000	100. 0	Subcontractors Electrical Heating and plumbing Heating and piping Pipe covering	612, 970 102, 485	256, 573 57, 602	96. 5 21. 7 22. 6	41.9 56.2	1, 211, 860 190, 927	9.
All classes	8, 885, 158	323, 384	100. 0	3, 6	21, 015, 641	88.4	Plumbing and heating	282, 221	60, 000 78, 089	29.4	27.7	480, 854	10
Jeneral contractors Building	³ 5, 807, 605 ³ 1, 305, 840	243, 384 95, 083	75.3 29.4	4, 2 7, 3	415,671,177 43,540,115	85.4 71.5	Roofing and sheet-metal	168, 264 3 287, 781	60, 882 5, 400		36.2	392, 579 4 680, 701	
Building not specialized Commercial building only.	1, 167, 573 86, 750	92, 083 3, 000	28.5	7,9 3.5	3, 115, 970 251, 296 570, 207	72, 7 76, 6 87, 6	work	39,976	5, 400	2.0			9
Highway Bridge and culvert Grading	851, 232 496, 500	21,750 20,000	6.7	4.2 2.6 4.0	1,770,870	98.3 88.3	Plumbing and gas fitting equipment						
Street paving Dam and reservoir	399, 301 15, 858	13, 772 3, 580	4.8	3.4	1, 233, 266 145, 000	98. 0 42. 4	All classes General contractors		353, 823 5, 026	100.0		21, 015, 641 + 15,671, 177	
Subcontractors Steel erection	3 3, 077, 553 900, 000	80, 000 80, 000	24.7 24.7	2.6 8.9	4 5, 344, 464	97.3	Building Building not specialized	3 1, 305, 840 1, 167, 573	3, 229 1, 229	.9	.2	3, 540, 115 3, 115, 970	7
Lumber, rough and fin- ished			~	· ·			Commercial building only. Street paving	86, 750 399, 301	2,000 1,797	.6			
All classes	8, 885, 158	351, 427	100. 0	4.0	21, 015, 641	88.4	Subcontractors Heating and plumbing	3, 077, 553 612, 970	348, 797 348, 797	98.6 98.6	11.3 56.9	4 5, 344, 464 4 1, 211, 860 190, 927 480, 854	4 9 0 9 7 10
leneral contractors Building	³ 5, 807, 605 1, 305, 840	349, 212 112, 329	99. 4 32. 0	6. 0 8. 6	* 15,671,177	85.4 71.5	Heating and piping Plumbing Plumbing and heating	102, 485 282, 221	37, 283 204, 132	10. 5 57. 7	72.3		1 .
Building not specialized Commercial building only.	1, 167, 573 86, 750	81,467	23.2	7.0 19.8	3, 115, 970 251, 296	72.7	combined Electrical appliances and	168, 264	107, 382	30. 3	63. 8	392, 579	8
Residential building only. Highway	51, 517	13.662	3.9 34.9 22.1	26.5	172, 849 5, 172, 387 1, 770, 870	48.3 87.6 98.3	All classes		184, 656	100.0	2.1	21, 015, 64	1 8
Bridge and culvert Grading Street paving	496, 500	30,000	8.5	6.0 1.0	1, 233, 266	98,0	General contractors	3 5, 807, 605	2,080	1.1	(5)	4 15 671 177	7 0
Dam and reservoir	15, 858	2, 723	.8	17.2	145, 000	42.4	Building not specialized Commercial building only	1, 167, 573	. 680	4	. 1 1.6	4 3, 540, 116 3, 115, 970 251, 296	5 7 3 7
Subcontractors Carpentering and wood- flooring						97.8	Subcontractors	3 3, 077, 553	182, 576	- 98, 9	5.9	4 5, 344, 464	£ 9

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TABLE 10.—COMPARISON OF COST OF DESIGNATED MATERIALS FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929, WITH COST OF MATERIALS AND VALUE OF CONSTRUCTION BUSINESS— Continued

.[B	ased exclusively	r upon reports o	f establishments w	hich gave the distributed	cost of materials
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		COST OF I MAT	DESIGN ERIAL	ATED	- <u></u>	Indi-			COST OF MAN	DESIGN			Indi- cated
WIND OF MATERIAL AND CLAS-	Cost of all materials		Per of		Value of construc-	cated per cent of all	KIND OF MATERIAL AND CLAS-	Cost of all materials distrib-			cent	Value of construc-	per cent of all busi-
SIFICATION OF ESTABLISH- MENTS	distrib- uted by kind	Amount	Total cost	Cost of all distributed materials	tion busi- ness	busi- ness done by own force 1	SIFICATION OF ESTABLISE- MENTS	uted by kind	Amount	Total cost	Cost of all distributed materials	tion busi- ness	ness done by own force ¹
OMAHA-Continued			•				OMAHA-Continued	[[
Elevators, dumb-waiters, and equipment ¹							Pipe: Drain tile, vitrified, concrete, segment tile, corrugated—Continued						
All classes	\$8, 885, 158	\$683, 386	100.0	7.7	\$21, 015, 641	88.4		1 \$ 3 077 553	\$500	0,2	(5)	 1 \$5, 344, 464	97.3
General contractors Building Building not specialized Commercial building only.	3 5, 807, 608 3 1, 305, 840 1, 167, 573 86, 750	9,700 9,700 9,500 200	1.4	.7	4 15,671, 177 4 3, 540, 115 3, 115, 970 251, 296	71.5	Subcontractors. Heating and plumbing Heating and piping Pipe: Cast-iron, sheet and	³ 612, 970 102, 485	500 500	. 2	0.1	+1.211.860	94.4
Subcontractors	3, 077, 558	673, 686	98.6 98.6	21.9	4 5, 344, 464	97.3	tube steel, etc.	8, 885, 158	178, 983	100.0	2.0	21, 015, 641	88.4
Pipe: Drain tile, vitrified, concrete, segment tile, corrugated							General contractors Highway Bridge and culvert Street paving	³ 5, 807, 605 2, 125, 633 851, 232		99, 2 5, 6 2, 6	3.1 .5 .5	15,671, 177 5, 172, 387 1, 770, 870	85.4 87.6 98.3
All classes	8, 885, 158	317, 797	100, 0	3.6	21, 015, 641	88.4	Sewer, gas, water, conduit Water works	216, 241	124, 161	69.4	57.4	292,049	100.0
General contractors Highway Grading Street paving Sewer, gas, water, conduit. Water works	2, 125, 633	10,856 2,000 4,361 72,080	.6 1.4 22.7	5 4 1, 1 33, 3	2, 700, 000 1, 233, 266 292, 049	87.6 88.3 98,0 100.0	Subcontractors Electrical			.8	1	1 5. 344. 464	97.3

Based upon the difference between the total value of all construction business reported and the value of subcontract work let.
See footnote 2 of Table 9 on p. 730.
Includes cost of materials reported by establishments which did not include designated materials in their distributed lists.
Includes construction work reported by establishments which did not include the designated material in their distributed lists.
Less than one-tenth of 1 per cent.
Includes cost of materials reported by subcontracting establishments which did not include the designated material in their distributed lists.
Includes cost of materials reported by subcontracting establishments which did not include the designated material in their distributed lists.

TABLE 11.-COST OF MATERIAL FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929

[This table is made up in three sections; the second section begins on p. 735, the third on p. 736]

CLASSIFICATION OF ESTABLISHMENTS	Total cost of all ma- terials ¹	COST OF A TERIALS I UTED BY	Per cent		Brick (face, common, fire, pav- ing, etc.)	Tile (fire- proofing)	cotta.	Concrete and cin- der block	granite	Riprap, rubble, etc.	Cement	Lime
NEBRASKA	(815, 649, 045		2 \$2, 686, 758	8573, 821	\$129, 868	\$175, 618	\$68, 115	\$383, 991		* 82, 329, 200	\$44, 399
General contractors Building Commercial building only Residential building only Highway Bridge and culvert	5, 579, 873 5, 050, 304 228, 940 300, 629 4, 821, 246 1, 231, 721	$\begin{array}{c} 12, 155, 007 \\ 3, 994, 943 \\ 3, 712, 043 \\ 118, 971 \\ 163, 929 \\ 4, 335, 962 \\ 1, 147, 843 \end{array}$	84.4 71.6 73.5 52.0 54.5 80.9 93.2	2,657,342 215,681 200,091 13,610 1,980 1,769,183 91,706	571, 821 548, 581 524, 245 15, 000 9, 336 20, 000	129, 868 108, 196 103, 896 4, 000 300 21, 672	103, 440 103, 440 98, 302 600 4, 538	59, 717 48, 823 46, 333 2, 490 7, 147	154, 775 154, 775 153, 335 1, 400 40		2, 266, 465 316, 680 301, 414 13, 866 1, 400 1, 572, 890 78, 415	43, 399 43, 234 42, 488 400 346
Grading	500, 500 422, 243 315, 522 88, 083 307, 000 994, 006	500, 500 399, 301 315, 522 15, 858 397, 000 994, 006	100.0 94.6 100.0 18.0 100.0 100.0	304, 000 103, 685 26, 121 636 135, 000	88 2, 932			3, 747		1, 500	80,000 198,760 14,127 3,507	100
Subcontractors. Carpentering and woodflooring Dieetrical Elevator construction	³ 4, 226, 237 3, 429 92, 164 199, 576	54, 072 3, 494, 038 3, 429 80, 164 199, 576 673, 680	100.0 82.7 100.0 87.0 100.0	13, 854	2,000		72, 178	8, 398 8, 398	229, 216			65 1,000
Heating and plumbing. Heating and piping Pipe covering Plumbing Plumbing and heating combined Painting and decorating.	$1, 427, 396 \\255, 485 \\60, 000 \\588, 663 \\523, 248 \\43, 891$	861, 857 102, 485 60, 000 511, 183 188, 189 43, 891	60, 4 40, 1 100, 0 86, 8	700 700								400
Plastering and lathing Roofing and sheet-metal work Roofing Sheet-metal work Roofing and sheet-metal combined Steel erection	7,900 430,879 277,117 143,567 10,195 900,000	7,900 399,879 277,117 112,567 10,195 900,000	100.0 92.8 100.0 78.4 100.0	3, 000 2, 000 2, 000								400
Stone work Marble and tiling	67 270	67, 270 256, 386							67, 270			200

See footnotes at end of table.

TABLE 11.—COST OF MATERIAL FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929— Continued

					CONDIN									
CLASSIFICATION OF ESTABLISHMENTS	Total control of all million terials	ost UTED	OF ALL M ALS DISTRI BY KIND	B- g or stor	ue, alag, j	Brick (face, commot fire, pav	Tile (f	110"1 00440	ra Concr and ci	in- gran	ite Ri		Cement	Lime
		Amou	nt Perc	onrii	nders, etc.	ing, etc.	• J ·	and wa	11	ock an mar		etc.		
ОМАНА	\$9, 417, 1	34 \$8, 885,	158 94	. 3 3 81,	461, 071	\$189, 293	\$57,9	80 \$130, 98	9 \$48, 5	65 8283,	596 8	81, 500 28	1, 294, 124	\$17, 413
General contractors Building	6, 042, 9 1, 541, 1	20 5, 807, 55 1, 305, 573 1, 167,	605 96 840 84	.1 1,	436, 655	189, 293 189, 205	57,9	80 58, 81 80 58, 81	1 39, 9 1 29, 0	67 54, 73 54		1, 500	1, 264, 389 104, 471	16, 413 16, 413
Building Building not specialized Commercial building only Residential building only	1, 334, 1 183, 1 73, 1	573 1, 167, 65 86, 217 51	750 68	.5	85, 238 71, 828 13, 000 410	173,453	53,9	11 AN 1 AN	3 28, 2	77 52,	980		93, 659 10, 500	15,953
Highway Bridge and culvert	2, 125, 6 851, 2	33 2, 125, 32 851,	633 100 232 100		737.886				7 1/	47		1	312 857, 221 20, 430 80, 000	60
Residential building only Highway Bridge and culvert Grading Street paving Sewer, gas, water, conduit Dam and reservoir Waterworks	496, 4 399, 3 216, 2	500 496, 101 399, 141 216,	301 100		300, 000 103, 685 20, 000	88	3		3, 7	47		1,500	198, 760	
Dam and reservoir. Waterworks	. 15,8 . 397,0	358 15, 900 397,	858 100	1. U H	030 1								3, 507	
Subcontractors Carpentering and woodflooring	4 3, 374, (3, 4 39, (314 3, 077, 29 3,	429 100	.2	24, 416				8 8,3	98 229,	216		29, 735	1,000
Electrical Elevator construction	. 39,0 184,1 . 673,6		#70 100).0).0).0	8,854				8,3	98			18, 535	
Heating and plumbing Heating and piping Pipe covering	804, 0 102, 4 60, 0)31 612, 185 102, 100 60	970 70 485 100 000 100	3.2).0	700 700									400 400
Concreting. Electrical Heating and plumbing Fige covering. Plumbing. Plumbing and heating combined Planting and decorating Plastering and lathing. Roofing and sheet-metal work Roofing.	297, 9 344, 9	221 282, 125 168	221 9 264 4	5.0										
Plastering and lathing Roofing and sheet-metal work	43, 8 7, 9 318, 1	91 43, 000 7, 781 287,	891 10 900 10 781 9).0).0).3	3,000 2,000									400
Roofing Sheet-metal work Steel erection	70.5	76 39.).0 .3 .0	2,000									
Stone work Marble and tiling	67, 2 281, 3	86 87, 186 256,	270 100 386 91	0.0	9,862			72, 1	/8	67, 161,	270 946		11, 200	200
			<u> </u>	 Cast	1	1		1						
CLASSIFICATION OF ESTABLISHMENTS	Plaster,	Structural	Rein- forcing	iron, miscel laneous	, win-	and wire	Orna- mental	Lumber, rough and		Mill-	Composition	proor-	rough	Paints, var- nishes,
	etc.	steel	steel	exclud ing pipe		lath and furring	metal work	finished	and shakes	work	board			and glass
NEBRASKA	\$69, 764	1 82, 277, 608	8623 124		860. 507	885.038	858, 189	\$1, 011, 581	815.402	8484, 581	\$36. 370	\$11.024	8178, 459	\$148, 897
			·	26, 189			58, 169			484, 561 484, 561	30, 870 28, 373			100, 977
General contractors. Building not specialized. Commercial building only. Residential building only. Highway. Bridge and culvert. Grading. Street paying. Sewer, gas, water, conduit. Dam and reservoir. Dredging, river, harbor, etc. Refuse disposal plant.	61, 819 1, 200	396, 806 2, 500	205, 494 202, 089 3, 075	13, 270 12, 270 1, 000	. 300	1. 500.	58, 169 57, 368 100	1,009,366462,674378,39228,24056,042	11, 522 500	100 001	26, 343 1, 000 1, 030		125, 995	89, 347 1, 730
HighwayBridge and culvert	2, 745	1,773 219,034 794,052	330 245, 383 46, 802		455		1 .				. 2,497.	39	36, 189	1, 460 3, 059 5, 381
Grading Street paying Sewer res water conduit		60,000 1,800	20,000 13,772 5,360					30,000				1, 401	3,000 799	
Dam and reservoir Dredging, river, harbor, etc			3, 580					2, 723 225, 858						
Refuse disposal plant Subcontractors Carpentering and woodflooring	4.000	800.000	2, 233 80, 500			·]		4, 10/	1		1		1	47, 920
Carpentering and woodflooring Concreting Painting and decorating Plastering and lathing			500										185	
Roofing and sheet-metal work	3,000										5, 500	1, 500	1, 200	3,000
Roofing Sheet-metal work Steel erection		800, 000	80,000	20,000							5, 500		1, 200	3, 000
Marble and tiling	1,000	* 1, 807, 617	323, 384	30, 124	31, 300	41, 265	55, 735	351, 427	980	92, 145	20, 179	4, 723	41, 380	112, 924
General contractors	24 031	1,007,617 1,007,617 90,321	243.384	10,124	31, 300	41, 265	55, 735	349, 212 112, 329	980	92, 145 92, 145 92, 145		3, 223 1, 822		65, 004 60, 160 58, 000
BuildingBuilding Building_not_specialized Commercial building only Residential building only	24, 031 22, 699 1, 200	90, 321 86, 668 2, 500 1, 153	95, 083 92, 083 3, 000	9,000 8,000 1,000	31, 300 30, 925 300	40, 765	55, 735 55, 000 100	81,467	980 500	65, 030 3, 500	14, 679 12, 182 11, 182 1, 000	1, 822 1, 622 200	30, 995 28, 363 24, 772 1, 100 2, 491 8, 132 500	1,700
Highway Bridge and culvert	132	1, 153 190, 726 664, 770	89,199 21,750		75		635 	13, 662 122, 588 77, 643	480	23, 615	2, 497		2, 491 8, 132 500	460 1,760 3,084
Grading Street paving Dam and reservoir		60, 000 1, 800	20,000					30, 000 3, 929				1, 401	3,000	
Subcontractors Carpentering and woodflooring		800, 000	3, 580 80, 000	20.000				2, 723 2, 215		·····	5, 500	1, 500	1, 385	47, 920
Painting and decorating Plastering and lathing								2, 215				1, 500	185	1, 029 43, 891
Roofing											5, 500 5, 500		1, 200 1, 200	3, 000 3, 000
Sheet-metal work Steel erection Marble and tiling		800,000	80, 000	20, 000										
			1			1					1	<u> </u>	[]	<u> </u>

-

See footnotes at end of table.

TABLE 11.-COST OF MATERIAL FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929-Continued

CLASSIFICATION OF ESTABLISHMENTS	Roofing and sheet metal	Finished flooring, n. e. s.	Screens, shades, awn- ings, etc.	Heating and ven- tilating equip- ment	Plumb- ing and gas fitting equip- ment	Electri- cal appli- ances and supplies	dumb- waiters,	Pipe: Drain tile, vit- rified, concrete, etc.	Pipe: Cast iron, sheet and tube, steel, etc.	Wire cable, guards, and fencing	Bitu- minous paving mate- rials	Wood piling and timber	Ma- chinery	Miscel- lancous⁵
	\$437, 421	\$74, 937	\$8,675	\$361, 838	8502, 912	8215, 140	\$709, 117	\$454, 386	\$253, 514	\$135, 620	\$143, 738	\$476, 264	\$25, 000	8170, 043
General contractors	50, 489	74, 937 74, 937	8,675	14, 211	20,760	10, 564	35, 431	449, 161	232, 014	135, 620	139, 861	476, 264	25,000	169, 543
Building Building not specialized Commercial building only Residential building only	48, 139	74,937	8,675	14,211	17,998	10, 564	35, 431	500 500	100	1,280	30 30		25,000	102,159 102,159
Commercial building only	42,839	69, 791 300	7,285	7,081 1,600	6,418 2,000	4, 364 2, 900	22, 981 12, 200	000	50	1,200			25,000	102, 109
reguencial bunding only	avv	4,846	840	5, 550	9,580	3, 300	250		50		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
Highway				· ·				64, 365	46,855	9,158	80, 203	3, 200		50,959
Bridge and culvert Grading Street paving Sewer, gas, water, conduit Dam and reservoir Waterworks Dedicar size backon off	2,350							14,451	4, 630	11, 826	170	3,200		
Street paving					1,797			2,000	4.692		59, 458			1.811
Sewer, gas, water, conduit								121, 494	133, 437					1,260
Dam and reservoir										5, 412		1	1	
Dredging, river, harbor, etc								228,000	34,000	107 790		479 004		6,878
Refuse disposal plant						·			8,300	215		475,004		6,476
								1.00	0,000					
Subcontractors	386, 932			347,627	482, 152	204, 576			21, 500		3,877			500
Concreting Electrical	1	1 .	1	177		197, 576			1 600		3, 877 3, 877			
Elevator construction Heating and plumbing Heating and piping Pipe covering				500		181,010	673,686							
Heating and plumbing	7,000			339, 380	482, 152	7,000		5, 225	20,000					
Heating and piping	6,000			57,602	37, 283	J		. 500						
Pipe covering Plumbing	1,000			60,000	000 007		.[
Plumbing and heating combined	1,000			66, 582	114 982	7 000		- 4,400	20,000					
Plumbing and heating combined Roofing and sheet-metal work Roofing	379,932			7,747	111, 202	1,000								500
Roofing	269, 617													
Sheet-metal work	102,467			0.400										000
Roofing and sheet-metal combined				2, 347										
OMAHA	292, 555	14, 246	1,750	265, 753	353, 823	184, 656	2 683, 386	3 317, 797	178, 983	15, 505	90, 839			60, 320
General contractors	16,374	14, 246	1,750	3, 280	5,026	2,080	9,700	317, 297	177, 483	15,505	86-062			59,820
Building.	14.024	14.246	1.750	3, 280	3, 229 1, 229 2, 000	2,080	9,700			194				7,050
Building not specialized	L 12 024	12,000	1,200	1,680	1, 229	680	9,500			194				
Commercial building only Residential building only	2,000	300		1,600	2,000	1,400	200			·		.		
					1	1		1 10 010	10,000	9,158	27 504			50,959
Bridge and culvert Grading Street paving Sewer, gas, water, conduit Dam and reservoir Waterworks	2,350							10,000	4,630	741				
Grading								2,000	[[[
Street paving					1,797			4,361	4,692		. 59,458			1,811
Dom and reservoir								. 72,080	124, 161	5 412				
Waterworks								228,000	84,000	0, 112				
	1					1.	1							
Subcontractors	276, 181			262, 473	348, 797	182, 576		500	1,500		3, 877 8, 877			500
Concreting	-	-				182.576				.	8,877			j
Elevator construction			·	. 500		182,076	673,686		- 1,000					
Elevator construction Heating and plumbing Heating and piping fipe covering	6.000			256, 573	348.797		673,686	500						
Heating and piping	6,000		.]	57,602	37, 283			_ 500	J				.	
Pipe covering	·		·	60,000		-	-				- - 			
Plumbing and hosting combined			·	78,089	107 320		-	-	-					
Roofing and sheet-metal work	270, 181			5,400	107,002									500
Plumbing	240, 305	[
Sheet-metal work	29, 876			5,400									-	500
· · · ·	1 <u>.</u>	1	1	1	I	1	1	1	1	1 · · ·	1	1	11.1	<u> </u>

¹ Certain establishments did not give a distribution of the cost of their materials by separate items. The total cost of materials reported by such establishments is, however, included in total in this column which carries a footnote to that effect.
 ³ See footnote 2 of Table 9 on p. 730.
 ⁴ Includes masonry, \$16,660; ornamental iron, \$50,000; and railroad, \$12,000.
 ⁴ Includes ornamental iron, \$50,000.
 ⁵ Includes the reported cost of ready-mixed concrete; metal products, n. e. s.; sealing materials; textiles and calking materials; and miscellaneous, n. e. s. For total cost of these materials see Table 9.

TABLE 12.—NUMBER OF, AND VOLUME OF BUSINESS REPORTED BY, ESTABLISHMENTS DOING A CONSTRUC-TION BUSINESS OF LESS THAN \$25,000 IN 1929, PERCENTAGE OF TOTAL NUMBER OF KNOWN ESTABLISH-MENTS, AND AVERAGE VOLUME PER ESTABLISHMENT

		,	1980	NE:) popul	BRASKA ation, 1	377,963			1930	омана) popula 214,006	ution,	REMA 1930	NDER 0) populs 1,163,98	FSTATE ntion, 7
	K	nown co establis	ntractin hments	g	Vol	ime of l	business roj	ported			ime of siness			iness
TYPES OF WORK	Total	Inac-	Activ 192		Num- ber of re-	Per		Average		Num- ber of re-		Total num- ber active	Num- ber of re- port-	
	num- ber	tive in 1929	Num- ber	Per cent	port- ing estab- lish- ments	cent of active	Amount	per es- tablish- ment	in 1929	port- ing estab- lish- ments	Amount	in 1929	ing estab- lish- ments	Amount
Total establishments canvassed (less than \$25,000)	1,062	23	1, 039						175			864		
Total establishments, type of work unknown Total general and subcontractors classified	21 1,041	23	21 1, 018	100.0	3		\$17, 700	\$5, 900				21 	3	\$17, 700
Total general contractors classified	359	20	339	33. 3	78	23.0	867, 535	11, 122	33	1	\$15, 700	306	77	851, 835
Building Bridge and cuivert Highway Sewer, gas, water, conduit Struct poing		15 5	299 3 27 7 1	29.4 .3 2.7 .7 .1	69 2 5 2	23.166.718.528.6	780, 442 8, 915 63, 412 14, 766	4,458	26 4 1	1	15,700	273 3 23 6 1	68 2 5 2	764, 742 8, 915 63, 412 14, 766
Railroad Dredging, dam	1		1 1	.1							220, 276	637	167	1,039,600
Total subcontractors classified	682	3	679	66.7	191	28.1	1, 259, 876	-	142	24	2,400	71	21	137, 935
Carpentering Concreting Electrical	76 45 87 10	2	76 45 85 10	7.5 4.4 8.3 1.0	23 11 22 2	30.3 24.4 25.9 20.0	140, 335 36, 450 172, 542 4, 000	6, 102 3, 314 7, 843 2, 000		2	33, 427	43 67 9	11 20 20	36, 450 139, 115 4, 000
Excavating Glass and glazing Heating and ventilating	10 4 41 4		4 41 8	4.0	1 4	25.0 9.8	4,000 27,121	4,000	2 6 2	1	4,000	2 35 1	4	27, 121
Marble and tiling Masonry Ornamental iron Roofing and sheet motal Plastering Plumbing and heating Wreeking Painting and decorating	$ \begin{array}{r} 40 \\ 40 \\ 17 \\ 39 \\ 28 \\ 165 \\ 7 \\ 109 \\ \end{array} $	1 	40 17 39 28 165 7 109	3.9 1.7 3.8 2.8 16.2 .7 10.7	7 4 12 11 55 1 38	17.5 23.5 30.8 39,3 33.3 14.3 34.9	56, 478 42, 582 101, 451 64, 170 430, 186 2, 000 178, 552	8, 454 5, 834 7, 822 2, 000	$13 \\ 25 \\ 4 \\ 51 \\ 3 \\ 7 \\ 1 \\ 1$	2 2 2 11 2	25, 800 26, 700 6, 000 99, 568 22, 381	$ \begin{array}{r} 40 \\ 4 \\ 14 \\ 24 \\ 114 \\ 4 \\ 102 \\ 3 \end{array} $	7 2 10 9 44 1 36	$\begin{array}{c} 56,478\\ 16,782\\ 74,751\\ 58,179\\ 330,618\\ 2,000\\ 156,171\\ \end{array}$
Steel erection Dredging Stonework Elevator	4 3 1 2		4 3 1 2	.4 .3 .1 .2					2			31		

TABLE 13.—ESTABLISHMENTS (WHOSE BUSINESS WAS LESS THAN \$25,000 IN 1929) WHICH REPORTED THEIR VOLUME OF CONSTRUCTION WORK, CLASSIFIED BY RANGE OF VOLUME OF BUSINESS

CLASSIFICATION	Total	Under \$2,500	\$2,500 to \$4,999	\$5,000 to \$7,409	\$7,500 to \$9,999	\$10,000 to \$12,499	\$12,500 to \$14,999	\$15,000 to \$17,499	\$17,500 to \$19,999	\$20,000 to \$22,499	\$22,500 to \$24, 999
NEBRASKA Total general and subcontractors	272	72	85	45	28	27	12	26	8	15	4
General contractors Subcontractors Type of contracting unknown	78 191	5 68 1	9 26	14 30 1	8 20	11 15 1	3 9 	14 12	2 6	9 6 	3 1

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NEVADA

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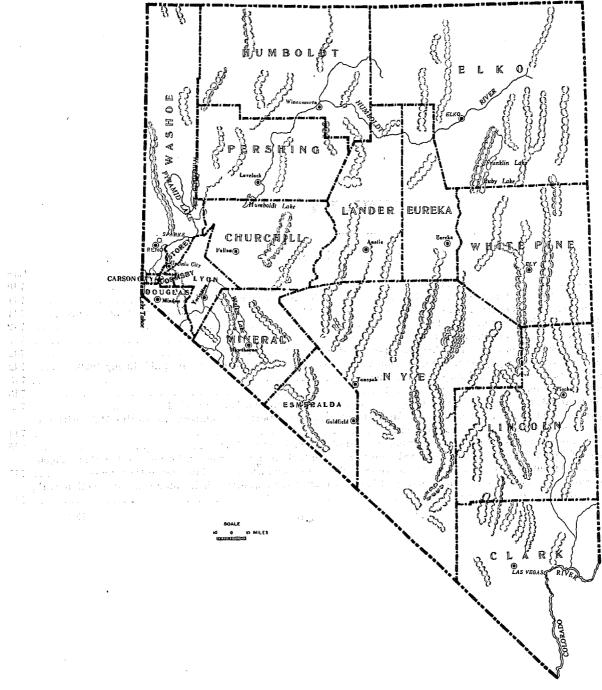


TABLE 1.--VALUE OF CONSTRUCTION BUSINESS DURING 1929, AND PRINCIPAL ITEMS OF EXPENDITURE

							_	-							
			OF CONS		PRINC	TURES	PENDI-				OF CONS			PAL EXI TURES	PENDI-
AREA, CLASSIFICATION OF ESTABLISHMENTS, AND SIZE OF BUSINESS GROUPS	Num- ber of estab- lish- ments	Total	Under general contract or directly for owner	sub-	Sub- con- tract work let	Wages paid	Cost of ma- terials	AREA, CLASSIFICATION OF ESTABLISHMENTS, AND SIZE OF BUSINESS GROUPS	Num- ber of estab- lish- ments	Total	Under general contract or directly for owner	Under sub- con- tract	Sub- con- tract work let		Cost of ma- terials
NEVADA	20	\$3, 639	\$3, 245	\$394	\$683	\$747 •	\$790	Size of business groups-					n na sta Paris	Salar y Salar y	
Counties: Churchill Washoe Other counties 1	3 12 5	$2,150 \\ 1,211 \\ 280$	2, 041 925 280	109 286	446 211 26	382 314 51	256 387 148	General contractors—Contd. \$500,000 to \$999,999 \$1,000,000 and over	1	\$1, 570	\$1,467	\$109	\$433	\$143	\$130
Classification of estab- lishments								Building contractors \$25,000 to \$49,999 \$50,000 to \$99,999	2	637 73	637 73			115 19	216 41
General contractors Building Other classes ²	16 10 6	3, 337 637 2, 700	3, 228 637 2, 591	109 109	683 237 446		647 216 431	\$100,000 to \$199,909 \$200,000 to \$499,999 \$500,000 to \$999,999	i		464 101		159 . 72	82 14	161 14
Subcontractors 3	4	302	17	285		77	143	\$1,000,000 and over			1				
Size of business groups					1917 - 1918 - 1918 - 1918 - 1918 - 1918 - 1918 - 1918 - 1918 - 1918 - 1918 - 1918 - 1918 - 1918 - 1918 - 1918 -			Subcontractors. \$25,000 to \$49,909	42	302 83	17 17	285 66		77 23	143 44
General contractors \$25,000 to \$49,999 \$50,000 to \$99,999 \$109,000 to \$199,999 \$200,000 to \$499,999	~ 2	3, 337 73 549 394 740	3, 228 73 549 394 746	109	083 6 159 72 13	671 10 93 126 289	647 41 186 101 189	\$25,000 to \$49,999 \$100,000 to \$199,699 \$100,000 to \$199,900 \$200,000 to \$499,909 \$500,000 to \$999,900 \$1,000,000 and over						28 26	31 69

[Values expressed in thousands]

Includes Clark, Elko, and Humboldt, for which data can not be shown without revealing individual operations. From areas other than those listed, no reports were received from establishments, which handled as much as \$25,000 business during 1929.
 Includes highway; bridge and culvert; and street paving.
 Includes electrical; heating and pping; masonry; and plumbing.

TABLE 2.—CONSTRUCTION BUSINESS OF REPORTING ESTABLISHMENTS DURING 1929, BY CLASS OF OWNERSHIP AND BY TYPE OF WORK

		CONSTRUCT	ION BI	USINESS RE	PORT	ed by		0	ONSTRUCTIO	N BUS	INESS REPO	RTED	вү
CLASS OF OWNERSHIF AND TYPE OF CONSTRUCTION WORK		classes of blishments		neral con- ractors	Su	contrac- tors	CLASS OF OWNERSHIP AND TYPE OF CONSTRUCTION WORK		l classes of ablishments		neral con- tractors		contrac- tors
	Number reporting	Value	Number reporting	Value	Number reporting	Value	CONSIRUCTION WORK	Number	Value	Number reporting	Value	Number reporting	Value
NEVADA		• • •					NEVADA-Continued						
All construction business Distribution not reported	20 2	\$3, 639, 124 149, 609	16 1	\$3, 336, 888 114, 647	4	\$302, 236 34, 962	All business under general contract or directly for owners—Contd. Building—Continued						
Distributed by class of ownership. Private. Quasi public or community Public Distribution not reported	18 13 2 8 2	3, 489, 515 819, 988 2, 669, 527 1, 605, 960	${\begin{smallmatrix} 15\\10\\2\\8\\2\\2 \end{smallmatrix}}$	3, 222, 241 3, 552, 714 2, 669, 527 1, 605, 960	3 { 3 	267, 274 267, 274	or directly for owners—Contd. Building—Continued. Distributed by class of building. Commercial. Educational. Religious and memorial. Hotel.	11 7 2 2 1 3	\$673, 210 166, 538 } 65, 625 } 26, 186	$ \begin{array}{c} 11 \\ 7 \\ 2 \\ 2 \\ 1 \\ 3 \end{array} $	\$673, 210 166, 538 } 65, 625 } 26, 186		
Distributed by class of pub- lic ownership Federal State County or township Municipal	6 2 4 2 2	1, 063, 567 950, 591 112, 976	$\left\{\begin{array}{c} 0\\ 2\\ 4\\ 2\\ 2\\ 2\\ 2\end{array}\right.$	1, 063, 567 950, 591 112, 976			Residential Social and recreational Air transport Miscellaneous Other classes ² All business under subcontract	10 3 1 3 7 5	347, 393 27, 979 39, 489 2, 554, 735 393, 698	10 3 { 1 3 7 1	847, 398 27, 979 39, 489 2, 554, 735 (1)		<u>(†)</u>
All business under general con- tract or directly for owners Building Distribution not reported	17 12 1	3, 245, 426 690, 691 17, 481	16 11 	(1) (1)	1 1 1	(1) (1) 17,481	Electrical. Masonry Excavating. Heating and plumbing. Heating and piping. Plumbing.	1 1 2 2	<pre>203, 988 189, 710 189, 710</pre>	 	(¹)	0	(1) \$189, 710 }189, 710

¹ Value omitted in order to avoid disclosing individual operations. The amounts omitted are, however, included in the respective totals. ² Includes establishments reporting the following types of work: Highway and street, 5; public works and utilities, including work on bridge, tunnel, etc., 1; central station, light and power plant, 1.

TABLE 3.-CONSTRUCTION BUSINESS DURING 1929, BY LOCATION

CLASSIFICATION OF ESTAB-	Es- tab- lish-		T 1		Outside		Es- tab- lish-				Outside
LISHMENTS	re- port- ing	Total	In home city	In home State	home State	CLASSIFICATION OF ESTAB- LISHMENTS	ments re- port- ing	Total	In home city	In home State	home State
NEVADA	20	88, 689, 124	\$1, 077, 976	\$2, 166, 386	\$1, 472, 738	General contractors-Contd.					
General contractors Building	16 10	3, 336, 888 637, 228	778, 590 578, 997		1, 472, 388	Other classes 1 Subcontractors 2	- 6 4	\$2, 699, 660 302, 236	\$199, 593 299, 386	\$1, 227, 272 301, 886	\$1, 472, 388 350

¹ Includes highway; bridge and culvert; and street paving. ² Includes electrical; heating and piping; masonry; and plumbing.

TABLE 4.--CONSTRUCTION BUSINESS OUTSIDE HOME STATE, BY LOCATION

		LOCATIC	N REPORTED I	38		LOCATIO	N REPORTED B	¥
	STATE	All classes of establish- ments	General con- tractors	Subcon- tractors	STATE	All classes of establish- ments	General con- tractors	Subcon- tractors
	NEVADA				NEVADA-Continued			
Total distribut California Utah	ed by State	\$1, 472, 738 424, 006 505, 631	\$1,472,388 423,656 505,631	\$350 350	Total distributed by State—Continued. Washington Other States, n. s	\$108, 943 434, 158	\$108, 943 434, 158	

TABLE 5.--NUMBER AND SALARIES OF PROPRIETORS, FIRM MEMBERS, AND SALARIED EMPLOYEES: 1929

	Es-		PRIETOI RM MEM				· · · · .	SALA	RIED EI	MPLOYEES				
CLASSIFICATION OF ESTABLISHMENTS	tab- lish- ments re-	Re- ceiv-		eiving laries		salaried ployees		cers and cal staff		ntendents, nen, etc.	Num	ber repo by sex	orted,	Sex
a de la companya de La companya de la comp	ing	ing no sala- ries	Num- ber	Total annúal salaries	Total num- ber	Total annual salaries	Num- ber	Total annual salaries	Num- ber	Total annual salaries	Total	Male	Fe- male	not re- ported
NEVADA	20	17	2	84, 125	55	\$131, 967	21	\$80, 777	34	\$51, 190	49	44	. 5	6
General contractors Building Other classes 1 Subcontractors 1	16 10 6	14 12 2	2	4, 125	48 4 44 7	117, 749 6, 915 110, 834 14, 218	14 1 13 7	66, 559 275 66, 254 14, 218	34 3 31	51, 190 6, 640 44, 550	42 4 38 7	40 4 36 4	2	6 6

Includes highway; bridge and culvert; and street paving.
 Includes electrical; heating and piping; masonry; and plumbing.

TABLE 6.—VALUE OF CONSTRUCTION EQUIPMENT, IN COMPARISON WITH CONSTRUCTION BUSINESS AND WAGES PAID DURING 1929

		EQUI	MENT					EQUIF	MENT		
CLASSIFICATION OF ESTABLISHMENTS AND PERCENTAGE OF EQUIPMENT OWNED	Estab- lish- ments report- ing	Pur- chased during the year	Inven- tory value at end of year	Value of construc- tion busi- ness re- ported	Wages paid	CLASSIFICATION OF ESTABLISHMENTS AND PERCENTAGE OF EQUIPMENT OWNED	Estab- lish- ments report- ing	Pur- chased during the year	Inven- tory value at end of year	Value of construc- tion busi- ness re- ported	Wages paid
Nevada	. 14	3228, 592	8445, 105	\$3, 187, 577	8626, 357	Percentage of equipment owned-Continued	at an		1990 - 1994 - 1994 1997 - 1994 - 1994 1997 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1		
Classification of establishments					an Chuidean Chuidean	All classes of equipment—Contd.				na sa	
Building Other classes ¹	8	5, 403 223, 189	21,703 423,402	461, 994 2, 725, 583	88, 208 538, 149	26% to 50% 51% to 75%					
Percentage of equipment owned	1.1					76% to 99% 100% Not reported	$1 \\ 12$	\$62, 804 165, 588	\$138, 625 306, 480	\$1, 575, 960 1, 557, 617	\$142,969 471,358
All classes of establishments	14	228, 592	445, 105	3, 187, 577	626, 357	1100 IONOLOGUILIIIIIIIIIIIIIIIIIIIIIIIIII					
None	1	200		54,000	12,000						

1 Includes establishments reporting the following types of work: General contractors: Highway, 4; street paving, 1; Subcontractors: Plumbing, 1.

TABLE 7 .- WAGE EARNERS, BY MONTHS, AND WAGES PAID DURING 1929

	Estab-	1	NUMBER	EMPLOY	ED ON 15	ТН ДАУ	OF THE	MONTH	OR NEAR	EST REP	RESENTA	TIVE DA	Y	
CLASSIFICATION OF ESTABLISHMENTS AND LENGTH OF WORKING WEEK	ments report- ing	Janu- uary	Febru- ary	March	April	May	June	July	August	Sep- tember	Octo- ber	No- vember	Decem- ber	Wages paid
NEVADA	18	126	125	158	298	357	360	830	291	253	273	189	162	\$458, 412
Classification of establishments											. ··· .			
General contractors Building Other classes 1	14 10 4	105 14 91	106 23 83	132 39 93	248 85 183	309 99 210	314 106 208	294 89 205	240 97 143	196 67 129	231 67 164	152 64 88	129 62 67	381, 802 115, 419 266, 383
Subcontractors 2	4	21	19	26	50	48	46	36	51	57	42	37	- 33	76, 610
Length of working week	,		i i											
General contractors ³ 40-hour, 5-day week 44-hour, 5½-day week 48-hour, 6-day week	14 6 1	105 8	106 16	132 30	248 40 50	309 53 50	$314 \\ 55 \\ 50$	294 45 10	240 56 4	196 37	$231 \\ 46 \\ 4$	152 55	129 55	381, 802 76, 133 12, 000 293, 669
48-hour, 6-day week	$\tilde{7}$	97	90	102	158	206	209	239	180	155	181	93	70	293, 669
Subcontractors 4 40-hour, 5-day week 44-hour, 5½-day week	4 3 1	$21 \\ 19 \\ 2$	$ \begin{array}{r} 19 \\ 17 \\ 2 \end{array} $	$\begin{array}{c} 26\\ 24\\ 2\end{array}$	50 48 2	$^{48}_{45}$	46 43 3	36 33 3	51 48 3	57 54 3	42 38 4	37 33 4	33 28 5	76, 610 64, 866 11, 744

¹ Includes highway; bridge and culvert; and street paving.
 ² Includes electrical; heating and piping; masonry; and plumbing.
 ³ In addition to the captions under "general contractors" shown in this section the following classifications are included in the complete breakdown: 45-hour, 5-day week; all other 5-day week; all other 5-day week; all other 5-day week; 60-hour, 6-day week; all other of the classification in the tabulation for general contractors above.

TABLE 8.- EXPENDITURES OF REPORTING ESTABLISHMENTS: 1929

				AL ITEMS PENDITUR				OTHEI	ITEMS	OF EXPEN	IDITURE		
CLASSIFICATION OF ESTABLISHMENTS	Estab- lish- ments report-	l nesa rehore-	Subcon-	i magea	Cost of mater-	Sal Propri- etors	aries	Ren	t for	Interest	Contract bond	Com- pensa- tion and liability	All other
an Anna ann an Anna an Anna Anna Anna An	ing	ed	work let	paid	ials	and firm mem- bers	Employ- ces	Equip- ment	Offices, etc.		minme		expenses
NEVADA	12	\$2, 799, 529	\$568, 000	\$502, 273	\$532, 842	\$4, 125	\$85,067	\$58, 380	\$3, 153	\$21,466	\$16,079	\$15,726	\$921, 104
General contractors Building Other classes ¹	9 5 4	2, 532, 255 313, 768 2, 218, 487	568,000 135,000 433,000	63, 598	405, 417 88, 527 816, 890		76, 669 2, 075 74, 594	58, 380 58, 380	933 356 577	21, 123 207 20, 916	16,079 850 15,229	14,685 1,420 13,265	913, 004 5, 246 907, 758
Subcontractors 2	3	207, 274		64, 866	127, 425	4, 125	8,398		2, 220	343		1,041	8, 100

1 Includes highway; and bridge and culvert.

² Includes heating and piping; masonry; and plumbing.

TABLE 9.—COST OF MATERIALS FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929, BY KIND

		COST OF MATERIALS REPORTED BY-														
	All classes of establish- ments											All classes of establish ments		tablish-		
KIND OF MATERIAL	Amount	Per cent distri- bution	Per \$1,000 con- struc- tion work done ¹	General contrac- tors	Subcon- tors	KIND OF MATERIAL	Amount	Per cent distri- bution	Per \$1,000 con- struc- tion work done ¹	General contrac- tors	Subcon- tors					
NEVADA All kinds of materials Distribution not reported Sand, gravel, stone, slag, cinders, etc Brick (face, common, fire, paving, etc.). Cement Lime Plaster, etc Structural steel Reinforcing steel Cast iron, miscellaneous, excluding pipe Metal doors, windows, and trim Metal and wire lath and furring Lumber, rough and finished Lath, shingles, and shakes (wood)	343, 600		\$267.33 	$\begin{array}{c} \$646, 982\\ 387, 950\\ \hline 259, 032\\ 09, 858\\ 1, 270\\ 13, 454\\ 120\\ 1, 300\\ 2, 867\\ 1, 300\\ 2, 995\\ 116\\ 1, 730\\ 200\\ 79, 262\\ 4, 080\\ \end{array}$	58, 081	NEVADA—Continued Distributed by kind—Continued. Millwork Composition board Waterproofing materials. Hardware, rough and finished. Paints, varnishes, glass Roofing and sheet metal. Finished flooring, other than cement, wood, or tile. Screens, shades, awnings, etc. Heating and ventilating equipment. Electrical appliances and supplies Pipe: Drain tile, vitrified, concrete, segment-tile, corrugated. Bituminous paving materials, tar, asphalt, and oil.	100 560 38, 557 40, 537 17, 624 2, 930	4.5 .6 (2) 2.3 .7 .3 (2) .2 411.2 411.8 5.1 .9 1.9 .1	\$12, 03 1, 48 6, 20 1, 89 93 08 44 30, 00 31, 54 13, 71 2, 28 5, 02 , 39	\$15, 487 1, 900 50 2, 425 1, 200 100 5, 600 4, 750 1, 800 2, 930 6, 450 5, 500	\$32, 957 35, 787 15, 824					

¹ The value of construction work done is obtained from figures presented in Table 1, by subtracting the value of subcontract work let from the total value of construction

¹ The value of construction work tone is obtained non-egan and the second and t

TABLE 10.—COMPARISON OF COST OF DESIGNATED MATERIALS FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929, WITH COST OF MATERIALS AND VALUE OF CONSTRUCTION BUSINESS

[Based exclusively upon reports of establishments which gave the distributed cost of materials]

		COST OF		<u> </u>					COST OF		ATED			
			DESIGN. FERIAL	ATED		Indi-			MA	TERIAL	<u></u>		Indi- cated	
	Closet of all		Per cen	t of	2	cated per cent		Cost of all	с.,	Per cer	nt of—	Value of	per cent of all	
RIND OF MATERIAL AND CLASSI- FICATION OF ESTABLISHMENTS	Cost of all materials distrib- uted by kind	Amount	Total cost	Cost of all dis- trib- uted mate- rials	Value of construc- tion busi- ness	of all busi- ness done by own force ¹	KIND OF MATERIAL AND CLASSI- FICATION OF ESTABLISHMENTS	materials distrib- uted by kind	Amount	Total cost	Cost of all dis- trib- uted mate- rials	construc- tion busi- ness	busi- ness done by own force1	
NEVADA							NEVADA-Continued		·. ·			a in cuis An cuis An cuis		
Sand, gravel, crushed stone,							Heating and ventilating equipment ⁶					a state de		
slag, and cinders * All classes	2 \$343, 600	\$99, 858	100. 0	29.1	³ \$1, 115, 289	81.2	All classes	\$343, 600	\$38, 557	100.0	11.2	\$1, 115, 289	81.2	
General contractors. Building Building not specialized Residential building		99, 858 4, 358 3, 938	100. 0 4. 4 3. 9	38.6 3.0 3.6	939, 757 458, 584 408, 584	79.5 62.8 63.6	General contractors Building Building not specialized	4 259, 032 4 145, 157 109, 657	5, 600 5, 600 5, 600	14, 5 14, 5 14, 5	2.2 3.9 5.1	⁸ 939, 757 ⁸ 458, 584 408, 584	79.5 62.8 63.6	
Residential building Highway Street paving	35, 500 89, 200 24, 675	420 82,500 13,000	.4 82.6 13.0	1.2 92.5 52.7	50, 000 396, 227 84, 946	59, 2 82, 2 100, 0	Subcontractors Heating and plumbing Plumbing		32, 957 32, 957 32, 957	85. 5 85. 5 85, 5	39.0 47.9 47.9	⁵ 175, 532 140, 570 140, 570	100, 0 100, 0 100, 0	
Cement							Plumbing and gas fitting equipment ⁶	1 1 1	parte en el			an an an an an		
All classes	2 343, 600	13, 454	100.0	3.9		81.2	All classes	343, 600	40, 537	100.0	11.8	1, 115, 289	81. 2	
General contractors Building Residential building Righway Street paving	259, 032 145, 157 109, 657 35, 500 89, 200 24, 675	13, 454 7, 304 6, 304 1, 000 2, 200 3, 950	100.0 54.3 46.9 7.4 16.4 29,4	5.2 5.0 5.7 2.8 2.5 16.0	939, 757 458, 584 408, 584 50, 000 396, 227 84, 946	79, 5 62, 8 63, 6 59, 2 82, 2 100, 0	General contractors Building Building not specialized	4 259, 032 4 145, 157 109, 657	4,750 4,750 4,750	11.7 11.7 11.7 88.3	1.8 3.3 4.3 42.3	⁵ 939, 757 ⁵ 458, 584 408, 584 ⁵ 175, 532	1	
Lumber, rough and finished	22,010	0,000					Subcontractors. Heating and plumbing Plumbing	4 84, 568 68, 744 68, 744	35, 787 35, 787 35, 787	88.3 88.3	52.1	140, 570	100.0	
All classes	2 343, 600	79, 262	100.0	23.1	³ 1, 115, 289	81. 2	Electrical appliances and	00,711	00,101					
General contractors		79, 262 78, 762	100.0 99.4	30.6 54.3	⁵ 939, 757 458, 584	79.5 62.8	supplies			100.0		1, 115, 289	81, 2	
Building Building not specialized Residential building only	1 100,000	49,822	62.9 36.5	45.4	458, 584 408, 584 50, 000	63.6 59.2	All classes		17,624	100.0	5,1	\$ 939, 757	79.5	
Highway Millwork	89, 200	, 500	. 6	. 6	396, 227	82.2	General contractors Building Building not specialized Street paying	4 145, 157 109, 657 24, 675	1,200 1,200 1,200 600	6.8 6.8 3.4	1 . 8	⁶ 458, 584 408, 584 84, 946	62.8 63.6	
All classes	2 343, 600	15, 467	100.0	4.5		81.2	Subcontractors Electrical		15, 824	89.8		• 175, 532 34, 962	100.0	
General contractors Building Building not specialized	4 259, 032 4 145, 157 109, 657	15, 467 15, 467 15, 467	100. 0 100. 0 100. 0	6.0 10.7 14.1	\$ 939, 757 \$ 458, 584 408, 584	79.5 62.8 63.6	Electrical	15, 824	15, 824	89.8	100. 0	91, 902	100.0	
Hardware, rough and finished	$\int_{M} f(x) = 0$	1.71						1 - M.C. 4				a de ta		
All classes	2 343, 600	8, 048	100. 0	2.3	3 1, 115, 289	81. 2	• 	1.4.1			1	1		
General contractors. Building. Building not specialized. Residential building only. Street paving	4 259, 032 145, 157 109, 657 35, 500		99.4	5.5 5.5 5.6	408, 584 50, 000	63.6 59.2		1. 1.						

* See footnote 3, Table 9, on p. 743.

Based upon the difference between the total value of all construction business reported and the value of subcontract work let.
Based upon the difference between the total value of all construction business reported and the value of subcontract work let.
Includes cost of materials reported by subcontracting establishments which did not include the designated material in their distributed lists.
Includes cost of materials reported by subcontracting establishments which did not include the designated material in their distributed lists.
Includes cost of materials reported by subcontracting establishments which did not include the designated material in their distributed lists.
Includes cost of materials reported by establishments which did not include the designated material in their distributed lists.
Includes construction work reported by establishments which did not include the designated material in their distributed lists.
See footnote 4, Table 9, on p. 743.

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TABLE 11.-COST OF MATERIAL FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929

CLASSIFICATION OF ESTABLISHMENTS	Total cost of all ma-		UTED	Sand, gravel, crushed stone,	Cement		tural ing	Lum- ber, rough and	Laths, shing- les,		Hard- ware, rough and	var- nishes,	Heating and venti- lating	and gas	trical appli- ances	Pipe: Drain tile, vitri- fied,	Bi- tumi- nous paying	Mis- cel- lane-
	terials *	Amount		slag, cinders, etc.		steel	steel	fin-	and shakes	[]	fin- ished	and glass	equip- ment	fitting equip- ment	and sup- plies	con- crete, etc.	ma- terials	ousi
NEVADA	\$790, 231	\$343, 600	43. 5	\$99, 858	s \$13, 454	\$2, 867	\$2, 995	879, 262	\$4, 080	\$15, 467	\$8, 048	82, 425	⁶ 838, 557	⁶ 840, 537	\$17, 6 24	\$2, 930	\$6, 450	\$9,046
General contractors Building Building not speci-	¹ 646,982 216, 217	259, 032 145, 157	40. 0 67. 1	99, 858 4, 358	13, 454 7, 304	2, 867 2, 867	2, 995 995	79, 262 78, 762	4, 080 4, 080	15, 467 15, 467	8, 048 7, 998	2, 425 2, 400	5, 600 5, 600	4, 750 4, 750	1, 800 1, 200	2, 930 180	6, 450 450	9, 046 8, 746
alized Residential build-	170, 457	109, 657	64, 3	8, 938	6, 304	2, 867	995	49, 822	2, 080	15, 467	5, 998	2, 400	5, 600	4, 750	1, 200	180	450	7, 606
ing only Highway Street paving	45, 760 356, 090 24, 675	35, 500 89, 200 24, 675	77.6 25.0 100.0	420 82, 500 13, 000	1,000 2,200 3,950		2,000	28, 940 500	2,000		2, 000 50	25			600	2,000	6, 000	1,140
Subcontractors	24, 078 143,249 15, 824	84, 508 15, 824	59.0 100.0										32, 957	35, 787	15, 824 15, 824			
Heating and plumb- ing Plumbing	³ 96, 289 68, 744	68, 744 68, 744	71, 4 100, 0										32, 957 32, 957	35, 787 35, 787				

* Cortain establishments did not give a distribution of the cost of their materials by separate items. The cost of materials reported by such establishments is, however, neluded in totals in this column which carry a footnote to that effect.

¹ Includes bridge and culvart, \$50,000. ³ Includes masoury, \$31,136. ⁴ Includes masoury, \$31,136. ⁴ Includes the reported cost of bridk (face, common, fire, paving, etc.); lime; plaster; cast iron; metal doors, windows, and trim; metal and wire lath and furring; composition board; waterproofing materials; roofing and sheet metal; finished flooring, n. e. s.; screens, shades, awnings, etc.; and miscellaneous, n. e. s. For total cost of ithese items see Table 9. ⁴ See footnote 4, Table 9, on p. 743. ⁴ See footnote 4, Table 9, on p. 743.

TABLE 12.—NUMBER OF, AND VOLUME OF BUSINESS REPORTED BY ESTABLISHMENTS DOING A CONSTRUC-TION BUSINESS OF LESS THAN \$25,000 IN 1929, PERCENTAGE OF TOTAL NUMBER OF KNOWN ESTAB-LISHMENTS, AND AVERAGE VOLUME PER ESTABLISHMENT

	NEVADA 1930 population, 91,058											
	Know	vn contract	ting establi	shments	Volume of business reported							
TYPES OF WORK	Total	Inactive	Active in 1929		Number of re- porting	Per cent	Amount	Average per estab-				
	number	in 1929	Number	Per cent	estab- lish- ments	of active		lishment				
Total establishments canvassed (under \$25,000)	147	1	146									
Total establishments, type of work unknown Total general and subcontractors classified	12 135	ī	12 134	100.0		26.9						
Total general contractors classified	20		29	21,6	10	34, 5	\$137, 385	\$13, 738				
Building Street paving	26 3		26 3	19.4 2,2	10	38.5	137, 385	13, 788				
Total subcontractors classified	106	1	105	78.4	26	24,7	161, 144	6, 198				
Carpentering Stone work Electrical Painting and decorating Plumbing and heating Sheet metal and roofing	12 8 16 20 32 10	1	12 3 16 19 32 10	9, 0 2, 2 11, 9 14, 2 23, 9 7, 5	2 2 5 3 10	16.766.731.315.831.331.3	23, 800 4, 001 30, 754 18, 356 64, 369	11, 900 2, 001 6, 151 6, 119 6, 437				
Marble and tiling Heating and ventilating Plastering	2		2 2 1	1.5 1.5 .7	2	100.0	11, 864	5, 932				
Wreeking Masonry Glass and glazing Excavating	2 3 2 1		2 3 2 1	1.5 2.2 1.5 .7	1 1 	33, 3 50, 0	8, 500 1, 500	6, 500 1, 500				

TABLE 13.—ESTABLISHMENTS (WHOSE BUSINESS WAS LESS THAN \$25,000 IN 1929) WHICH REPORTED THEIR VOLUME OF CONSTRUCTION WORK, CLASSIFIED BY RANGE OF VOLUME OF BUSINESS

CLASSIFICATION	Total	Less than \$2,500	\$2,500 to \$4,999	\$5,000 to \$7,499	\$7,500 to \$9,999	\$10,000 to \$12,499	\$12,500 to \$14,999	\$15,000 to \$17,499	\$17,500 to \$19,999	\$20,000 to \$22,499	\$22,500 to \$24,999
NEVADA Total general and subcontractors	36	4	13	4	1	3	3	2	2	3	1
General contractors Subcontractors	10 26	4	1 12	4	1	2 1	2 1	2	2	1 2	1