

MICHIGAN

CONTENTS

	Page
MAP	608
TABLE 1.—Value of construction business during 1929, and principal items of expenditure.....	609
TABLE 2.—Construction business of reporting establishments during 1929, by class of ownership and by type of work.....	611
TABLE 3.—Construction business during 1929, by location.....	613
TABLE 4.—Construction business outside home State, by location.....	614
TABLE 5.—Number and salaries of proprietors, firm members, and salaried employees: 1929.....	615
TABLE 6.—Value of construction equipment, in comparison with construction business and wages paid during 1929.....	616
TABLE 7.—Wage earners, by months, and wages paid during 1929.....	618
TABLE 8.—Expenditures of reporting establishments: 1929.....	621
TABLE 9.—Cost of materials furnished and used by reporting establishments during 1929, by kind.....	622
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.....	624
TABLE 11.—Cost of materials furnished and used by reporting establishments during 1929.....	633
TABLE 12.—Number of, and volume of business reported by, establishments doing a construction business of less than \$25,000 in 1929, percentage of total number of known establishments, and average volume per establishment.....	639
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.....	639

MICHIGAN



CONSTRUCTION—MICHIGAN

611

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

CLASS OF OWNERSHIP AND TYPE OF CONSTRUCTION WORK	CONSTRUCTION BUSINESS REPORTED BY—						CLASS OF OWNERSHIP AND TYPE OF CONSTRUCTION WORK	CONSTRUCTION BUSINESS REPORTED BY—								
	All classes of establishments		General contractors ¹		Subcontractors			All classes of establishments		General contractors ¹		Subcontractors				
	Number reporting	Value	Number reporting	Value	Number reporting	Value		Number reporting	Value	Number reporting	Value	Number reporting	Value			
MICHIGAN																
All construction business.....	1,501	\$329,380,194	782	\$210,082,847	710	\$118,307,847	MICHIGAN—Continued	All business under subcontract—Continued.								
Distribution not reported.....	76	9,103,347	14	4,430,215	62	4,673,132		Distributed by class of sub-contract work—Contd.								
Distributed by class of ownership.....								Stonework.....	12	\$1,374,972			12	\$1,374,972		
Private.....	1,425	320,276,847	768	206,552,132	657	113,724,715		Marble and tiling.....	30	2,947,149			30	2,947,149		
Quasi public or community.....	1,270	234,710,262	627	136,981,510	643	97,728,743		Wrecking.....	2				2			
Public.....	268	14,556,290	91	8,980,640	177	5,566,050		Excavating.....	33	1,589,123	9	\$122,620	24	1,466,503		
Distribution not reported.....	56	6,247,290	26	5,077,090	30	1,170,209		Ornamental ironwork.....	11	2,343,813	1	(?)	10	(?)		
Distributed by class of public ownership.....								Highway.....	3	229,856	2		1			
Federal.....	447	64,762,996	264	55,603,883	183	9,259,113		Bridge and culvert.....	3	25,579	2	315,392	1	174,772		
State.....	131	10,041,959	92	9,105,024	39	936,935		Grading.....	5	234,729	2		3			
County or township.....	199	11,847,880	113	10,345,140	86	1,502,740		Street paving.....	4	659,376	4	659,376	1	(?)		
Municipal.....	298	40,715,411	155	34,118,807	143	6,596,064		Sewer, gas, water, conduit.....	5	112,504	3	(?)	1	(?)		
All business under general contract or directly for owners.....	1,111	242,419,163	782	207,571,190	329	84,847,964		Dredging, river, harbor, etc.....	3	993,720	4	998,720	3			
Distribution not reported.....	8	985,761	2	966,216	1	19,545		Soundproofing.....	4	354,460	2	(?)	4	354,466		
Distributed by class.....								Foundation.....	5	722,833	2	(?)	3	(?)		
Building.....	1,108	241,433,402	780	206,604,983	328	84,828,419		Metal work, n. e. s.....	5	1,647,630			5	1,647,630		
Distribution not reported.....	69	11,510,489	28	3,384,843	41	8,125,646	Rental of equipment, trucking, etc.....	3	133,534	2	(?)	1	(?)			
Distributed by class of building.....							Flooring, n. e. s.....	4	192,325			4	192,325			
Commercial.....	360	42,727,347	242	38,861,099	118	3,865,651	Other classes.....	6	678,176	3	330,198	3	247,978			
Educational.....	164	16,434,646	96	14,693,366	68	1,741,280										
Hotel.....	42	1,122,471	14	1,007,522	28	114,949										
Hospital and institutional.....	92	5,076,532	41	4,405,547	51	580,985										
Manufacturing.....	191	34,389,782	108	26,709,445	83	7,680,387										
Military and naval.....	7	85,044	5	667,753	2	256,648										
Public: Courts, jails, etc.....	50	889,357	28													
Religious and memorial.....	125	4,850,083	61	4,272,023	64	678,060										
Residential.....	654	56,060,458	443	48,017,234	211	7,643,224										
Social and recreational.....	90	3,239,192	51	3,008,847	39	230,345										
Air transport.....	20	1,007,317	12	408,938	8	609,224										
Rail and water transportation.....	14	413,246	6	268,832	8	149,414										
Miscellaneous.....	132	5,140,576	73	2,666,890	59	2,473,686										
Highway and street.....	123	26,530,261	120	28,132,280	3	90,220										
Railroad and car line.....	15	1,692,239	13	28,433,522	19	405,340										
Public works and utilities.....	163	28,838,871	134	28,433,522	19	405,340										
Distribution not reported.....	1	769,566	1	769,566												
Distributed by class.....																
Bridge, tunnel, etc.....	162	28,069,305	133	27,063,956	19	405,349										
Central station, light and power plant.....	46	5,350,333	43	6,299,855	3	50,478										
Dock, pier, retaining wall, etc.....	20	2,773,333	9	2,503,779	11	269,554										
Flood control, irrigation, and land drainage.....	14	772,274	14	772,274												
Refuse disposal plant.....	3	127,455	2	(?)	1	(?)										
Park, grounds, etc.....	6	77,727	4	(?)	2	(?)										
River and harbor improvement.....	7	1,852,602	7	1,852,602												
Sewage disposal and drainage.....	60	11,984,166	50	(?)	1	(?)										
Water supply.....	29	4,178,271	26	4,112,829	3	60,442										
Miscellaneous.....	5	49,861	4	(?)	1	(?)										
Air transport.....	5	144,926	5	144,926												
Miscellaneous, n. e. s.....	28	1,730,565	20	1,437,164	8	293,401										
All business under subcontract.....	649	\$6,961,031	67	\$3,411,148	582	\$3,549,883										
Distribution not reported.....	11	1,125,620	2	95,884	9	1,029,736										
Distributed by class of subcontract work.....																
Carpentering and wood flooring.....	37	2,761,787	16	427,210	21	2,334,577										
Concrete.....	39	1,800,683	18	134,423	21	1,666,260										
Electrical.....	91	7,131,983			91	7,131,983										
Elevator construction.....	3	2,604,510			3	2,604,510										
Heating and plumbing.....	34	199,685														
Heating and piping.....	154	23,252,230			154	23,252,230										
Pipe covering.....	26	513,819			26	513,819										
Plumbing.....	155	6,928,107			154	(?)										
Plumbing and heating combined.....	45	3,492,314			45	3,492,314										
Automatic sprinkler systems.....	3	13,215			3	13,215										
Masonry.....	40	3,120,942			29	2,983,049										
Painting and decorating.....	20	1,929,584														
Glass and glazing.....	13	1,206,014			13	1,206,014										
Plastering and lathing.....	25	2,515,152			24	5,637,405										
Roofing and sheet-metal work.....		7,583,071				(?)										
Roofing.....	50	3,262,151			40	(?)										
Sheet-metal work.....	59	2,915,648			59	2,915,648										
Roofing and sheet metal combined.....	13	1,405,872			13	1,405,872										
Steel erection.....	18	6,936,606			18	6,923,057										

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

CLASS OF OWNERSHIP AND TYPE OF CONSTRUCTION WORK	CONSTRUCTION BUSINESS REPORTED BY—						CLASS OF OWNERSHIP AND TYPE OF CONSTRUCTION WORK	CONSTRUCTION BUSINESS REPORTED BY—					
	All classes of establishments		General contractors		Subcontractors			All classes of establishments		General contractors		Subcontractors	
	Number reporting	Value	Number reporting	Value	Number reporting	Value		Number reporting	Value	Number reporting	Value	Number reporting	Value
DETROIT—Continued						FLINT—Continued							
All business under subcontract—Continued.						All business under subcontract—Continued.							
Distributed by class of subcontract work—Contd.						Distributed by class of subcontract work—Contd.							
Elevator construction.....	3	\$2,604,510			3	\$2,604,510	5	\$148,903			5	\$148,903	
Heating and plumbing.....		10,904,861		(?)		(?)		1,123,788				1,123,788	
Heating and piping ¹	65	4,747,062			65	4,747,062	13	305,905			13	305,905	
Pipe covering.....	17	492,923			17	492,923	12	622,354			12	622,354	
Plumbing.....	37	4,379,453	1	(?)	66	(?)	3	195,529			3	195,529	
Plumbing and heating combined.....	13	1,285,413			13	1,285,413	4	33,000	3	(?)	1	(?)	
Masonry.....	25	2,855,490	5	\$32,032	20	2,778,468	5	298,103			5	298,103	
Painting and decorating.....	18	1,524,222			18	1,524,222	4	252,273	1	(?)	3	(?)	
Glass and glazing.....	9	1,095,242			9	1,095,242	5	571,912			5	571,912	
Plastering and lathing.....	14	1,867,080			14	1,867,080	GRAND RAPIDS						
Roofing and sheet-metal work.....		5,250,397				5,250,397	All construction business.....						
Roofing.....	22	2,088,048			22	2,088,048	133	14,645,953	66	\$9,791,532	67	4,854,421	
Sheet-metal work.....	27	2,102,305			27	2,102,305	6	423,242			6	423,242	
Roofing and sheet metal combined.....	8	1,060,044			8	1,060,044	Distribution not reported.....						
Steel erection.....	9	2,900,591			9	2,900,591	Distributed by class of ownership.....						
Stonework.....	8	1,134,656			8	1,134,656	127	14,222,711	66	9,791,532	61	4,431,170	
Marble and filling.....	20	2,167,551			20	2,167,551	112	9,652,348	51	6,231,707	61	3,420,641	
Excavating.....	13	896,994	2	184,691	11	712,273	29	583,710	7	358,993	22	224,717	
Grading.....	1		1		9	2,340,619	48	3,986,653	25	3,200,832	23	785,821	
Ornamental iron.....	9	2,340,619			1	(?)	4	481,033	3	440,181	1	31,852	
Sewer, gas, water, conduit.....	5	112,504	4	(?)			Distribution not reported.....						
Dredging, river, harbor, etc.....	3	998,720	3	998,720			Distributed by class of public ownership.....						
Soundproofing.....	4	354,466			4	354,466	44	3,505,620	22	2,751,651	22	753,969	
Foundation.....	3	720,782	1	(?)	2	(?)	2	1,059,642	6	828,953	4	230,059	
Metal work, n. e. s.....	5	1,547,639			5	1,547,639	15	653,936	7	588,375	8	65,561	
Flooring, n. e. s.....	4	192,325			4	192,325	29	1,792,042	14	1,334,323	15	457,719	
Other classes ⁷	8	1,316,732	4	973,754	4	342,978	All business under general contract or directly for owners.....						
FLINT						All business under general contract or directly for owners.....							
All construction business.....						All construction business.....							
Distribution not reported.....						Distribution not reported.....							
Distributed by class of ownership.....						Distributed by class of ownership.....							
Private.....	61	8,527,240	32	5,714,124	29	2,813,116	98	11,165,842	66	9,716,805	32	1,449,037	
Quasi public or community.....	14	500,794	5	221,407	9	279,387	81	8,411,707	52	7,084,282	29	1,327,425	
Public.....	13	691,995	8	205,615	10	380,350	10	683,346	4	311,071	6	372,275	
Distribution not reported.....	1	15,000			1	15,000	Distributed by class of building.....						
Distributed by class of public ownership.....						Distributed by class of building.....							
County or township.....	12	576,995	3	205,615	9	371,380	71	7,728,361	48	6,773,211	23	955,150	
Municipal.....	9	411,897	2	205,615	7	371,380	39	2,197,319	26	2,016,176	13	181,143	
All business under general contract or directly for owners.....						All business under general contract or directly for owners.....							
Building.....						Building.....							
Distribution not reported.....						Distribution not reported.....							
Distributed by class of building.....						Distributed by class of building.....							
Commercial.....	43	6,398,600	30	5,480,224	13	918,385	11	672,241	8	629,618	3	42,023	
Educational.....	16	2,260,077	11	1,057,906	5	202,171	2	367,262	1		1	(?)	
Hotel.....	2	363,426	1	363,426	2	(?)	2	367,262	1		1	(?)	
Hospital and institutional.....	1	316,187	5	(?)	2	(?)	2	367,262	1		1	(?)	
Manufacturing.....	7	223,353	4	147,503	5	75,850	15	1,078,554	10	879,585	5	198,969	
Religious and memorial.....	9	755,758	24	3,399,155	10	356,603	3	58,019	3	58,019			
Residential.....	34	272,844	3	(?)	3	(?)	10	322,944	6	300,667	4	22,277	
Other classes ⁸	6	221,480	1	168,300	2	53,189	5,5	2,488,967	37	2,044,843	18	444,124	
Highway and street.....	2						3	222,552	2	(?)	1	(?)	
Public works and utilities ⁹	3						10	320,503	5	257,111	5	63,392	
All business under subcontract.....						All business under subcontract.....							
Carpentering and wood flooring.....						Carpentering and wood flooring.....							
Concreting.....						Concreting.....							
Distribution not reported.....						Distribution not reported.....							
Distributed by class.....						Distributed by class.....							
Carpentering and wood flooring.....	5	131,140			2	(?)	10	1,675,928	10	1,675,928			
Electrical.....	10	463,898			10	463,898	9	815,324	8	956,505	1	121,612	
Heating and plumbing.....		1,053,065					6	262,853	4		2		
Heating and pipe covering.....	12	744,642			12	744,642	All business under subcontract.....						
Plumbing.....	12	308,423			12	308,423	Distribution not reported.....						
Masonry and stonework.....	4	79,000			4	79,000	Distributed by class.....						
Painting, decorating, and glazing.....	4	140,970			4	140,970	Carpentering and wood flooring.....						
Roofing and sheet-metal work.....		431,517				431,517	flooring.....						
Roofing.....	3	114,348			3	114,348	Electrical.....						
Sheet-metal work.....	6	317,169			6	317,169	Heating and plumbing.....						
Marble, tiling, and plastering.....	6	600,792			6	600,792	Heating and pipe covering.....						
Excavating.....	6	367,885			6	367,885	Plumbing.....						
Other classes ¹¹	3	189,844			3	189,844	Masonry and stonework.....						

¹ Includes operative builders.
² Value omitted in order to avoid disclosing individual operations. The amounts omitted are, however, included in the respective totals.
³ Includes 2 general contracting establishments engaged in water-power development work.
⁴ Includes 1 subcontracting establishment engaged in automatic temperature control.
⁵ Includes establishments engaged in the following types of work: General contractors—Waterworks and dam and reservoir, 1; power-plant work, 1; vehicular subway and tunnel, 1. Subcontractors—Power-plant work, 1; and miscellaneous, n. e. s., 2.
⁶ Includes 1 establishment engaged in automatic temperature control.
⁷ 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, n. e. s., 2.
⁸ Includes establishments engaged in the following types of work: General contractors—Miscellaneous, unclassified, 3. Subcontractors—Public: Courts, jails, etc., 1; social and recreational and rail and water transportation, 1; and miscellaneous, unclassified, 1.
⁹ Includes establishments engaged in the following types of work: General contractors—Water supply and sewage disposal and drainage, 1. Subcontractors—Power-plant work, 1; and sewage disposal and drainage, 1.
¹⁰ Includes establishments engaged in the following types of work: Painting and decorating, 2; and steel erection, 1; and excavating and grading, 2.
¹¹ Includes establishments engaged in the following types of work: General contractors—Air transport, 1; miscellaneous, n. e. s., 4. Subcontractors—Rail and water transportation, 1; miscellaneous, n. e. s., 4.
¹² Includes establishments engaged in the following types of work: General contractors—Bridge, tunnel, etc., 1; central station, light and power plant, 1; refuse-disposal plant, 1; sewage disposal and drainage, 5. Subcontractors—Power plant and refuse-disposal plant, 1.
¹³ Includes establishments engaged in the following types of work: General contractors—Railroad and car line, 1; air transport, 2; miscellaneous, n. e. s., 1. Subcontractors—Miscellaneous, n. e. s., 2.
¹⁴ Includes establishments engaged in the following types of work: Concreting, 1; steel erection, 1; and grading, 1.

CONSTRUCTION—MICHIGAN

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

STATE OR COUNTRY	LOCATION REPORTED BY—			STATE OR COUNTRY	LOCATION REPORTED BY—		
	All classes of establishments	General contractors	Subcontractors		All classes of establishments	General contractors	Subcontractors
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
Alabama	148,268	5,600	142,668	Alabama	51,457		51,457
Arkansas	841		841	Arkansas	841		841
California	80,668		80,668	California	28,786		28,786
Colorado	166,420		166,420	California	156,781		156,781
Connecticut	463,978	9,562	454,416	Connecticut	14,655		14,655
Delaware	39,574		39,574	Delaware	269,510		269,510
District of Columbia	269,510		269,510	District of Columbia	29,950		29,950
Florida	29,950		29,950	Florida	128,709		128,709
Georgia	292,042		292,042	Georgia	261,726	86,500	175,226
Idaho	34,200		34,200	Illinois	485,847	276,751	209,090
Illinois	2,267,635	89,800	2,177,835	Iowa	330		330
Indiana	2,136,464	393,447	1,743,017	Kansas	103,735		103,735
Iowa	328,578		328,578	Kentucky	9,239		9,239
Kansas	401,608		401,608	Louisiana	307		307
Kentucky	245,314		245,314	Maine	203		203
Louisiana	367		367	Maryland	47,031		47,031
Maine	43,005		43,005	Massachusetts	374,133		374,133
Maryland	151,456		151,456	Minnesota	2,325		2,325
Massachusetts	915,442	8,643	906,799	Missouri	109,489	97,000	12,489
Minnesota	454,308		454,308	New Hampshire	5,450		5,450
Missouri	755,597	97,000	658,597	New Jersey	150,052		150,052
Montana	65,491		65,491	New York	1,950,799	853,087	1,097,682
Nebraska	42,984		42,984	North Carolina	2,886		2,886
New Hampshire	57,692		57,692	North Dakota	4,455	4,455	
New Jersey	763,753	7,380	756,373	Ohio	1,096,546	967,754	728,792
New Mexico	5,264		5,264	Oklahoma	644		644
New York	3,184,060	853,087	2,330,973	Pennsylvania	224,406		224,406
North Carolina	142,143		142,143	Rhode Island	1,890		1,890
North Dakota	74,757	4,455	70,302	South Carolina	1,428		1,428
Ohio	4,416,202	1,182,954	3,233,248	Tennessee	98,878		98,878
Oklahoma	122,478		122,478	Utah	109		109
Oregon	72,731		72,731	Vermont	72		72
Pennsylvania	1,959,815	1,650	1,958,165	Virginia	44,493		44,493
Rhode Island	67,822		67,822	Washington	4,436		4,436
South Carolina	58,641		58,641	West Virginia	1,446		1,446
South Dakota	35,567		35,567	Wisconsin	119,290		119,290
Tennessee	286,435		286,435	Other States, n. s.	4,400,799		4,400,799
Utah	174,875		174,875	Canada	4,389,613	4,312,687	77,626
Vermont	72		72	Other North and Central America	307,575	367,575	
Virginia	116,480		116,480				
Washington	324,007		324,007	FLINT			
West Virginia	69,737		69,737	Total distributed by State ³	52,074		52,074
Wisconsin	1,061,497	32,096	1,019,401	Ohio	52,074		52,074
Wyoming	54,610		54,610				
Other States, n. s.	4,555,803	47,639	4,508,264	GRAND RAPIDS			
Canada	4,389,613	4,312,687	77,026	Total distributed by State ⁴	181,697	25,385	156,312
Other North and Central America	367,575	367,575		Connecticut	9,302	9,302	
				Indiana	57,429		57,429
				Massachusetts	8,643	8,643	
				New Jersey	7,380	7,380	
				Ohio	51,418		51,418
				Other States, n. s.	47,465		47,465

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 8.—EXPENDITURES OF REPORTING ESTABLISHMENTS: 1929—Continued

CLASSIFICATION OF ESTABLISHMENTS	Establishments reporting	Value of construction business reported	PRINCIPAL ITEMS OF EXPENDITURE			OTHER ITEMS OF EXPENDITURE							
			Subcontract work let	Wages paid	Cost of materials	Salaries		Rent for		Interest	Contract bond premiums	Compensation and liability insurance premiums	All other overhead expenses
						Proprietors and firm members	Employees	Equipment	Offices, etc.				
GRAND RAPIDS	121	\$18,488,710	\$2,433,000	\$3,343,417	\$4,935,870	\$157,588	\$892,101	\$40,061	\$58,089	\$74,737	\$51,776	\$98,359	\$1,107,849
General contractors ¹²	50	9,098,551	2,404,000	2,153,199	3,024,630	77,894	501,377	39,182	15,539	50,031	45,610	74,335	678,063
Building.....	45	6,431,770	2,292,000	1,350,576	2,160,467	80,140	340,242	3,575	10,312	31,747	15,420	41,447	196,575
Building not specialized ¹²	32	5,508,458	1,946,000	1,221,636	1,835,031	50,240	312,753	3,575	9,592	17,242	15,364	37,209	114,076
Residential building only.....	13	923,312	346,000	128,940	331,436	9,900	27,484	—	7,200	14,505	56	4,238	22,499
Highway and grading.....	5	1,164,141	20,000	425,019	235,199	12,094	57,351	3,794	1,844	11,281	9,408	15,878	340,582
Street paving.....	5	868,630	92,000	204,081	351,229	5,660	57,108	—	2,042	3,895	9,296	9,154	107,832
Other classes ¹³	4	634,010	—	173,523	271,744	—	46,676	12,198	1,341	3,108	11,486	7,850	84,094
Subcontractors.....	62	4,390,159	23,000	1,190,213	1,911,231	79,694	390,724	879	42,550	24,706	6,166	24,024	429,786
Electrical.....	11	570,073	—	136,459	293,430	16,918	60,179	—	13,480	2,766	484	2,115	50,447
Heating and plumbing.....	22	1,631,886	11,000	323,927	907,021	25,080	115,091	600	15,327	7,323	5,054	6,710	107,973
Heating and piping ¹⁴	12	1,195,085	11,000	217,349	693,499	7,720	90,115	600	10,277	6,137	5,054	4,273	71,491
Plumbing.....	10	436,801	—	106,578	213,522	17,310	24,976	—	5,550	1,186	—	2,437	36,482
Masonry.....	3	105,147	—	33,254	51,730	4,940	—	—	—	134	—	904	1,850
Painting and decorating.....	6	207,682	—	139,588	90,246	14,766	5,280	60	960	321	—	2,240	12,530
Roofing and sheet-metal work.....	6	483,970	—	131,843	177,790	—	88,369	—	1,921	5,445	292	4,136	40,978
Marble, tiling, and plastering.....	6	610,022	8,000	211,538	261,714	5,460	59,557	19	7,794	3,725	76	2,278	66,274
Metal work, n. e. s. ¹⁵	3	217,235	—	101,600	65,691	—	19,044	—	1,668	24	—	1,802	14,622
Other classes ¹⁶	5	468,144	10,000	112,009	64,600	12,580	38,704	200	900	4,968	260	3,830	126,112

¹ Includes vehicular subway and tunnel.
² Includes levee.
³ Includes foundation; and central station, light and power plant.
⁴ Includes pipe covering and automatic temperature control.
⁵ Includes flooring, miscellaneous, n. e. s.
⁶ Includes bridge and culvert; grading; soundproofing; and foundation.
⁷ Includes grading; and vehicular subway and tunnel.
⁸ Includes dredging, river and harbor, etc.; and foundation.
⁹ Includes bridge and culvert; soundproofing; and foundation.
¹⁰ Includes building; highway; and sewer, gas, water, and conduit.
¹¹ Includes painting and decorating; steel erection; excavating; and grading.
¹² Includes operative builders.
¹³ Includes bridge and culvert; sewer, gas, water, and conduit.
¹⁴ Includes plumbing and heating combined.
¹⁵ Includes steel erection.
¹⁶ 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

KIND OF MATERIAL	COST OF MATERIALS REPORTED BY—				KIND OF MATERIAL	COST OF MATERIALS REPORTED BY—				
	All classes of establishments			General contractors ²		All classes of establishments			General contractors ²	
	Amount	Per cent distribution	Per \$1,000 construction ¹			Amount	Per cent distribution	Per \$1,000 construction ¹		
MICHIGAN					MICHIGAN—Continued					
All kinds of material.....	\$115,430,564		\$456.26	\$300,280,844	\$55,149,720					
Distribution not reported.....	10,365,758	16.8	—	11,702,072	7,662,786					
Distributed by kind.....	96,064,806	100.0	—	48,577,872	47,486,934					
Sand, gravel, stone, slag, cinders, etc.....	9,043,061	*9.4	42.05	8,673,021	370,040	\$5,676,129	5.9	\$26.96	\$353,137	\$5,317,992
Brick (face, common, fire, paving, etc.).....	4,874,728	5.1	23.15	4,667,883	206,845	2,169,886	2.3	10.31	28,776	2,141,110
Tile (fireproofing).....	1,130,411	1.2	5.37	519,462	610,949	1,886,194	2.1	9.44	1,931,801	54,393
Tile, facing, terra cotta, floor and wall.....	1,044,439	1.1	4.96	433,348	611,001	1,341,307	1.4	6.37	994,882	346,985
Concrete and cinder block.....	792,891	.9	3.76	599,848	103,043	154,662	2.3	7.73	100,765	53,897
Cut stone, granite, and marble.....	2,197,510	2.3	10.44	1,305,097	892,413	859,600	.9	4.08	848,187	11,413
Riprap, rubble, etc.....	32,668	(*)	.16	25,098	7,570	80,648	(*)	(*)	80,648	—
Cement.....	6,477,959	6.7	30.77	6,166,079	311,880	145	(*)	(*)	145	—
Lime.....	309,939	.3	1.47	200,919	109,020	721,915	.8	3.43	555,915	166,000
Plaster, etc.....	1,148,742	1.2	5.46	878,452	270,290	117,944	(*)	(*)	42,227	75,717
Structural steel.....	7,867,138	*8.2	37.32	1,976,089	5,881,049	602	(*)	(*)	—	602
Reinforcing steel.....	2,224,398	2.3	10.57	2,139,946	84,452	1,739	(*)	.01	77	1,662
Cast iron, miscellaneous (excluding pipe).....	447,245	.5	2.13	185,153	262,092	1,092,748	1.1	5.19	164,446	928,303
Metal doors, windows, and trim.....	819,252	.9	3.89	445,593	373,659	4,502	(*)	.02	1,937	2,565
Metal and wire lath and furring.....	362,821	.4	1.72	237,937	124,834	34,886	(*)	.16	34,886	—
Ornamental metal work.....	651,875	.7	3.10	311,871	340,004	16,042	(*)	.08	6,642	10,000
Lumber, rough and finished.....	7,758,061	8.1	36.85	7,293,125	464,936	1,937,450	2.0	9.20	1,800,323	77,127
Lath, shingles, and shakes (wood).....	356,938	.4	1.70	227,368	129,570	67,682,604	—	443.86	36,918,657	30,663,947
Millwork.....	2,900,464	3.0	13.82	2,087,633	821,831	9,109,071	13.6	41.86	5,057,239	4,112,432
Composition board.....	392,563	.4	1.87	151,994	240,569	58,412,933	100.0	—	31,861,418	26,551,515
Waterproofing materials.....	204,621	.2	.97	123,705	80,916	5,724,337	*9.8	43.50	5,447,470	276,867
Hardware, rough and finished.....	962,258	1.0	4.57	876,774	86,484	3,852,840	6.6	29.28	3,609,377	183,472
Paints, varnishes, glass.....	1,810,638	1.9	8.60	552,523	1,258,115	923,922	1.6	7.02	313,500	610,332
Roofing and sheet metal.....	4,313,426	4.5	20.49	273,420	4,040,006	—	—	—	—	—
Finished flooring other than cement, wood, or tile.....	417,585	.4	1.98	289,248	128,337	—	—	—	—	—
Screens, shades, awnings, etc.....	524,003	.5	2.49	96,203	427,800	—	—	—	—	—
Heating and ventilating equipment.....	15,886,667	16.0	78.08	289,347	15,097,320	—	—	—	—	—
Plumbing and gas-fitting equipment.....	5,415,946	5.6	25.72	541,943	4,874,003	—	—	—	—	—

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

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

Table with columns for 'KIND OF MATERIAL AND CLASSIFICATION OF ESTABLISHMENTS', 'COST OF DESIGNATED MATERIAL', and 'Value of construction business'. It lists various materials like sand, gravel, stone, brick, and cement, comparing their distributed costs against total costs and business values for Michigan establishments in 1929.

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]

Table with multiple columns: KIND OF MATERIAL AND CLASSIFICATION OF ESTABLISHMENTS, COST OF DESIGNATED MATERIAL (Amount, Per cent of Total cost, Cost of all distributed materials), Value of construction business, Indicated per cent of all business done by own force 1, and similar columns for a second set of materials.

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]

Table with 15 columns: KIND OF MATERIAL AND CLASSIFICATION OF ESTABLISHMENTS, Cost of all materials distributed by kind, Amount, Per cent of Total cost, Cost of all distributed materials, Value of construction business, Indicated per cent of all business done by own force 1, KIND OF MATERIAL AND CLASSIFICATION OF ESTABLISHMENTS, Cost of all materials distributed by kind, Amount, Per cent of Total cost, Cost of all distributed materials, Value of construction business, Indicated per cent of all business done by own force 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

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

KIND OF MATERIAL AND CLASSIFICATION OF ESTABLISHMENTS	COST OF DESIGNATED MATERIAL		Value of construction business	Indicated per cent of all business done by own force†	COST OF DESIGNATED MATERIAL	Value of construction business	Indicated per cent of all business done by own force†						
	Cost of all materials distributed by kind	Amount						Per cent of—		Cost of all materials distributed by kind	Amount	Per cent of—	
								Total cost	Cost of all distributed materials			Total cost	Cost of all distributed materials
FLINT—Continued				GRAND RAPIDS—Continued									
Roofing and sheet metal				Brick (face, common, fire, paving, etc.)									
All classes	\$2,646,353	\$103,434	100.0	7.3	\$6,070,915	\$2.1							
General contractors ¹	1,248,020	23,441	12.1	1.9	3,235,993	72.2							
Building	1,191,085	23,441	12.1	2.0	3,067,393	71.8							
Building not specialized ²	514,591	6,724	3.5	1.3	1,625,264	71.4							
Commercial building only	31,506	1,227	.6	3.9	67,630	98.5							
Residential building only	644,988	15,400	8.0	2.4	1,374,493	71.5							
Subcontractors	1,398,333	160,993	87.9	12.2	2,835,222	98.9							
Roofing and sheet-metal work	178,221	160,993	87.9	95.4	468,120	99.8							
Roofing	87,817	79,589	41.1	90.6	263,766	99.6							
Sheet-metal work	58,329	58,329	30.2	100.0	133,868	100.0							
Roofing and sheet metal combined	32,075	32,075	16.6	100.0	70,500	100.0							
Heating and ventilating equipment*				Tile, facing, terra cotta, floor, and wall									
All classes	2,646,353	245,168	100.0	9.3	6,070,915	82.1							
General contractors ¹	1,248,020	10,059	7.8	1.5	3,235,993	72.2							
Building	1,191,085	10,059	7.8	1.6	3,067,393	71.8							
Building not specialized ²	514,591	2,509	1.0	.5	1,625,264	71.4							
Commercial building only	31,506	2,000	.8	6.3	67,630	98.5							
Residential building only	644,988	14,558	5.9	2.3	1,374,493	71.5							
Subcontractors	1,398,333	220,104	62.2	16.2	2,835,222	98.9							
Heating and plumbing	591,047	217,876	88.9	36.9	1,043,040	99.5							
Heating and piping	133,803	109,207	44.6	81.7	219,385	98.6							
Plumbing	385,043	78,579	32.1	20.4	713,655	99.4							
Plumbing and heating combined	72,201	30,000	12.2	41.6	110,000	100.0							
Roofing and sheet-metal work	178,221	8,228	3.4	4.6	468,120	99.8							
Roofing	87,817	8,228	3.4	9.4	263,766	99.6							
Plumbing and gas-fitting equipment*				Cement									
All classes	2,646,353	437,518	100.0	16.5	6,070,915	82.1							
General contractors ¹	1,248,020	75,342	17.2	6.0	3,235,993	72.2							
Building	1,191,085	75,342	17.2	6.3	3,067,393	71.8							
Building not specialized ²	514,591	36,520	8.3	7.1	1,625,264	71.4							
Commercial building only	31,506	2,192	.5	7.0	67,630	98.5							
Residential building only	644,988	36,630	8.4	5.7	1,374,493	71.5							
Subcontractors	1,398,333	362,171	82.8	25.9	2,835,222	98.9							
Heating and plumbing	591,047	362,171	82.8	61.3	1,043,040	99.5							
Heating and piping	133,803	24,506	5.6	18.3	219,385	98.6							
Plumbing	385,043	295,464	67.5	76.7	713,655	99.4							
Plumbing and heating combined	72,201	42,201	9.6	58.4	110,000	100.0							
Electrical appliances and supplies				Plaster, etc.									
All classes	2,646,353	176,390	100.0	6.7	6,070,915	82.1							
General contractors ¹	1,248,020	24,955	14.1	2.0	3,235,993	72.2							
Building	1,191,085	24,955	14.1	2.1	3,067,393	71.8							
Building not specialized ²	514,591	7,448	4.2	1.4	1,625,264	71.4							
Commercial building only	31,506	2,030	1.2	6.4	67,630	98.5							
Residential building only	644,988	15,482	8.8	2.4	1,374,493	71.5							
Subcontractors	1,398,333	151,444	85.9	10.8	2,835,222	98.9							
Electrical	143,444	143,444	81.3	100.0	360,138	100.0							
Heating and plumbing	591,047	8,000	4.5	1.4	1,043,040	99.5							
Plumbing	385,043	8,000	4.5	2.1	713,655	99.4							
GRAND RAPIDS				Structural steel									
<i>Sand, gravel, stone, slag, cinders, etc.†</i>													
All classes	\$4,305,727	\$96,714	100.0	9.2	\$11,519,047	82.3							
General contractors	2,414,704	383,299	98.0	15.9	7,508,399	74.5							
Building	1,556,592	104,563	28.4	6.7	4,961,366	66.0							
Building not specialized ²	1,290,743	100,979	25.5	7.8	4,234,993	66.4							
Residential building only	265,849	3,584	.9	1.3	726,372	64.1							
Highway	235,199	126,000	32.0	54.0	1,044,394	98.1							
Street paving	351,229	129,416	32.6	36.8	868,630	89.4							
Sewer, gas, water, conduit	262,244	22,420	5.7	8.5	517,866	100.0							
Subcontractors	1,830,563	13,415	3.4	.7	3,882,648	99.4							
Masonry	47,650	1,500	.4	3.1	96,500	100.0							
Plastering and lathing	91,128	10,896	2.7	12.0	209,271	96.2							
Marble and tiling	69,035	1,019	.3	1.5	149,925	100.0							
Reinforcing steel				Reinforcing steel									
All classes	4,305,727	81,460	100.0	1.9	11,519,047	82.3							
General contractors ¹	2,414,704	80,910	99.3	3.3	7,508,399	73.8							
Building	1,616,992	85,301	47.1	2.4	5,089,365	65.4							
Building not specialized ²	1,351,143	37,755	46.3	2.8	4,362,993	65.6							
Residential building only	265,849	608	.7	.2	726,372	64.1							
Highway	235,199	22,128	27.2	0.4	1,044,394	98.1							
Street paving	351,229	17,047	20.9	4.9	868,630	89.4							
Sewer, gas, water, conduit	262,244	3,374	4.1	1.3	517,866	100.0							
Subcontractors	1,830,563	550	.7	(³)	3,882,648	99.4							
Masonry	47,650	550	.7	1.2	96,500	100.0							

See footnotes at end of table.

CONSTRUCTION—MICHIGAN

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

[See note at head of this table]

CLASSIFICATION OF ESTABLISHMENTS	Heating and ventilating equipment	Plumbing and gas-fitting equipment	Electrical appliances and supplies	Elevators, dumb-waiters, etc.	Pipe: Drain, tile, vitrified concrete, etc.	Pipe: Cast iron, sheet and tube steel, etc.	Wire cable, guards, and fencing	Bituminous paving materials, etc.	Wood piling and timber	Machinery	Freight, hauling or trucking to job	Metal products, n. e. s.	Sealing materials	Textiles and caulking materials	Miscellaneous ^a
DETROIT—Continued.															
Subcontractors—Continued.															
Masonry.....					\$3, 196						\$71, 960				\$5, 985
Roofing and sheet-metal work.....	\$111, 764							\$4, 442							10, 398
Roofing.....															646
Sheet-metal work.....	30, 000														
Roofing and sheet metal combined.....	81, 764							4, 442							0, 752
Steel erection.....	175, 000					\$12, 079	\$31, 697								1, 559
Stonework.....	183				422	16									3, 106
Marble and tiling.....			\$222, 413								2, 647	\$5, 355			
Excavating.....					7, 508										
Soundproofing.....														\$10, 000	17, 353
Foundation.....			5, 229			5, 429						35, 080			
Metal work, n. e. s.....												832, 556			9, 275
Flooring, n. e. s.....								6, 898							
FLINT.....	* 245, 183	* \$437, 513	178, 399	\$324	7, 189	25, 327	200								40, 681
Operative builders.....															
General contractors.....	17, 460	72, 092	23, 655	324	7, 169	22, 327	200								39, 486
Building.....	17, 469	72, 092	23, 655	324	1, 169	327									30, 486
Building not specialized.....	946	33, 270	6, 143		899	165									11, 318
Commercial building only.....	2, 000	2, 192	2, 030												
Residential building only.....	14, 563	36, 630	15, 482	324	270	162									28, 168
Sewer, gas, water, conduit.....					6, 000	22, 000	200								
Subcontractors.....															
Electrical.....	217, 876	362, 171	8, 000			3, 000									1, 105
Heating and plumbing.....	109, 297	24, 608				3, 000									
Heating and piping.....	78, 579	295, 464	8, 000			3, 000									
Plumbing.....		42, 201													
Plumbing and heating combined.....	30, 000														1, 105
Plastering.....	8, 228														
Roofing and sheet-metal work.....	8, 228														
Roofing.....															
GRAND RAPIDS.....	† 684, 133	† 351, 761	325, 189		247, 456	12, 293	9, 863	56, 009				4, 184	\$103		21, 449
Operative builders.....															
General contractors.....	28, 413	33, 778	24, 072		245, 227	2, 335	9, 863	56, 009						103	19, 168
Building.....	28, 413	28, 225	23, 774		4, 690	1, 125	1, 290								2, 595
Building not specialized.....	21, 713	18, 175	17, 712		4, 448	1, 125	1, 290								2, 595
Residential building only.....	6, 700	10, 050	6, 082		242										
Highway.....					15, 850	410	6, 400								9, 500
Bridge and culvert.....					16, 101		2, 080	56, 009							6, 376
Street paving.....		5, 433			203, 586	800	93						103		697
Sewer, gas, water, conduit.....		120	208									4, 184			2, 281
Subcontractors.....															
Electrical.....	655, 720	317, 083	301, 116		1, 879	9, 958									708
Heating and plumbing.....		316, 333	7, 396		1, 879	9, 958									703
Heating and piping.....	643, 860	110, 893	7, 396												
Plumbing.....	11, 500	165, 349			1, 879	4, 200									
Automatic sprinkler systems.....		40, 091				5, 758									1, 000
Masonry.....	360	1, 650	290												573
Painting and decorating.....												4, 184			
Metal work, n. e. s.....															

^a 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.

CONSTRUCTION—MICHIGAN

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

TYPES OF WORK	MICHIGAN (1930 population, 4,842,325)				DETROIT (1930 population, 1,568,662)		FLINT (1930 population, 156,492)		GRAND RAPIDS (1930 population, 168,692)		REMAINDER OF STATE (1930 population, 2,948,579)		
	Known contracting establishments				Volume of business reported		Volume of business		Volume of business		Volume of business		
	Total number	Inactive in 1929	Active in 1929	Per cent	Number of reporting establishments	Per cent of active	Amount	Average per establishment	Total number active in 1929	Number of reporting establishments	Amount	Total number active in 1929	Number of reporting establishments	Amount
Total establishments canvassed (under \$25,000).....	5,752	187	5,665		957						2,945		
Total establishments, type of work un- known.....	284	6	278	9.4	26	\$255,356	\$9,821	151	11	\$119,305	26	4	\$20,000
Total general and subcontractors classi- fied.....	5,468	81	5,387	100.0	931			1,418			252	869	
Total general contractors classified.....	1,399	38	1,361	25.3	219	2,702,688	12,341	278	23	376,672	110	23	\$369,476
Building.....	1,290	34	1,256	23.3	191	2,331,209	12,467	271	23	376,672	105	20	228,652
Highways.....	63	3	60	9.1	10	116,387	11,639	3			1		
Bridges and culvert.....	7	1	6	28.6	2	20,000	10,000	1					
Sewer, gas, water, conduit.....	30	1	29	5.1	9	137,466	15,274	1					
Dams and reservoir.....	7	1	6	57.1	4	36,800	9,200	1					
Dredging.....	3	1	2	(?)	1	4,735	4,735	1					
Foundation.....	6	1	5	33.3	2	6,071	3,036	3					
Power plants.....	3	1	2	(?)	1			3					
Total subcontractors classified.....	4,069	43	4,026	74.7	712	5,999,090	8,426	1,140	161	1,688,196	136	22	171,224
Carpentering.....	531	17	514	9.5	117	788,006	6,692	39	9	87,222	22	8	47,704
Concrete.....	151	1	150	2.8	32	279,087	8,721	4	1	6,548	13	1	2,000
Electrical.....	709	7	702	13.0	94	727,669	7,741	307	27	231,170	23	3	20,214
Elevators.....	4	1	3	25.0	1	1,000	1,000	1					
Heating and ventilating.....	55	5	50	1.0	12	137,134	11,428	14	2	22,123	10	1	8,983
Masonry.....	242	5	237	4.4	38	273,101	7,187	14	4	33,828	18	1	15,000
Painting and decorating.....	673	6	667	12.4	130	904,445	6,957	183	40	413,595	8	1	20,100
Plastering.....	165	3	162	3.0	35	57,421	11,484	42	4	50,921	11	1	30,000
Plumbing and heating.....	982	2	980	18.2	183	1,918,744	10,485	230	44	528,694	21	3	30,000
Sheet metal and roofing.....	140	1	139	2.6	30	353,035	11,770	11	3	47,702	3	2	10,113
Steel erection.....	4	1	3	1.1	1			1					
Stonework.....	10	10		1.2	14	210,971	15,069	3	8	112,807	2	1	
Marble and tiling.....	88	1	87	1.6	2	17,000	8,500	53					
Wrecking.....	10	1	9	9.0	2	53,512	7,645	2					
Excavating and grading.....	50	1	49	7.7	7	65,706	9,387	1	6	62,506	5	12	
Ornamental iron.....	38	3	35	7.7	7	25,069	5,014	27	2	9,445	2	2	
Miscellaneous subcontractors.....	196	196		3.6	5			133	2		3	1	4,995

¹ Of the inactive group, 28 are in Detroit, 3 in Flint, 10 in Grand Rapids, and the others 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	Less than one-tenth of 1 per cent.									
	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 \$25,000
Total	967	143	170	135	117	61	75	48	58	40
Total general contractors and subcontractors.....	219	9	22	26	30	16	32	14	23	18
General contractors.....	712	131	147	101	76	44	41	33	34	21
Subcontractors.....	248	12	23	35	30	16	27	14	23	18
Type of contracting unknown.....	26	3	1	8	3	1	2	1	1	1

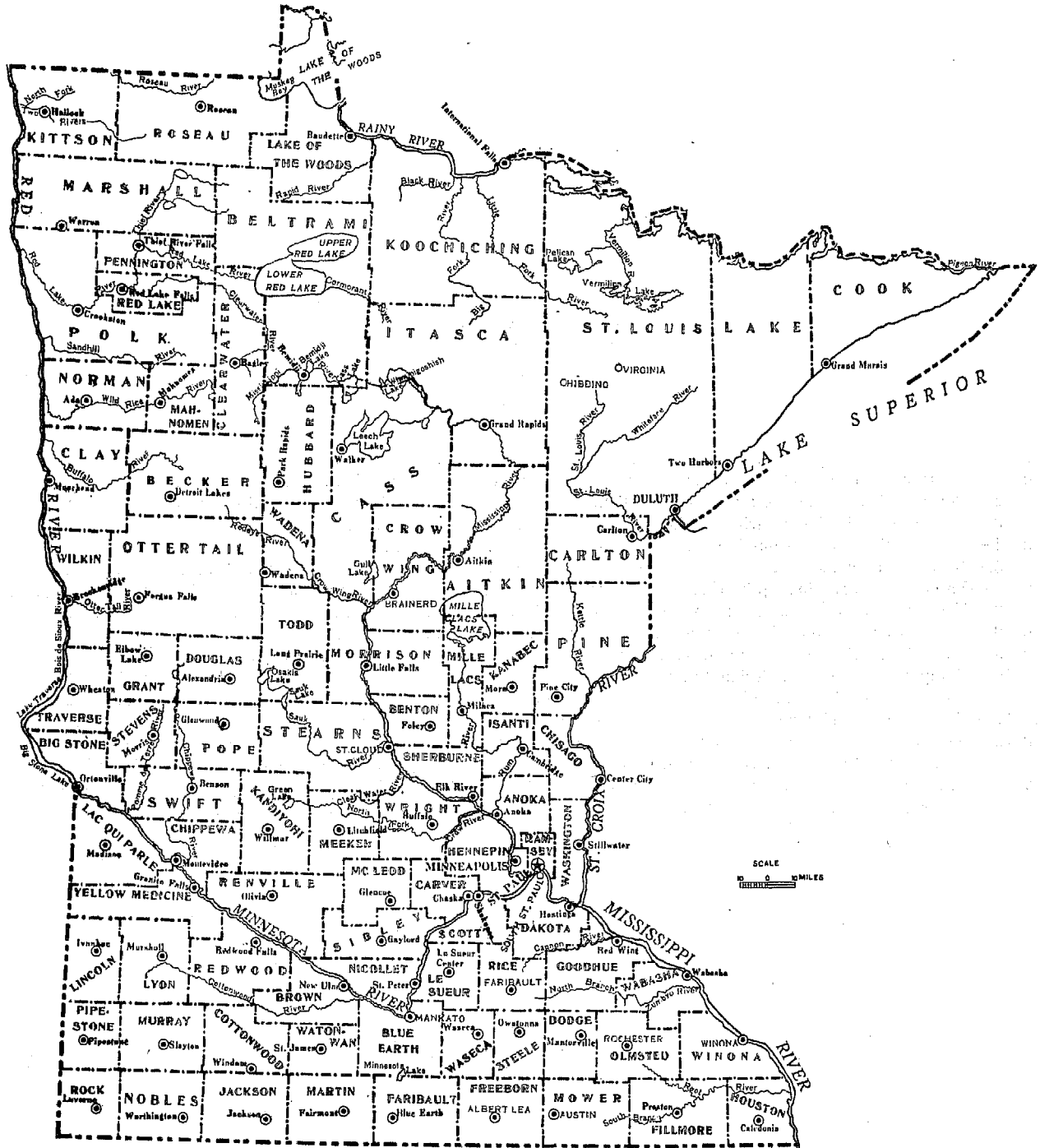
² Less than one-tenth of 1 per cent.

MINNESOTA

CONTENTS

	Page
MAP	642
TABLE 1.—Value of construction business during 1929, and principal items of expenditure.....	643
TABLE 2.—Construction business of reporting establishments during 1929, by class of ownership and by type of work.....	645
TABLE 3.—Construction business during 1929, by location.....	647
TABLE 4.—Construction business outside home State, by location.....	648
TABLE 5.—Number and salaries of proprietors, firm members, and salaried employees during 1929.....	648
TABLE 6.—Value of construction equipment, in comparison with construction business and wages paid during 1929.....	650
TABLE 7.—Wage earners, by months, and wages paid during 1929.....	651
TABLE 8.—Expenditures of reporting establishments: 1929.....	653
TABLE 9.—Cost of materials furnished and used by reporting establishments during 1929, by kind.....	654
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.....	656
TABLE 11.—Cost of materials furnished and used by reporting establishments during 1929.....	664
TABLE 12.—Number of, and volume of business reported by establishments doing a construction business of less than \$25,000 in 1929, percentage of total number of known establishments, and average volume per establishment.....	669
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.....	669

MINNESOTA



CONSTRUCTION—MINNESOTA

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

[Values expressed in thousands]

AREA, CLASSIFICATION OF ESTABLISHMENTS, AND SIZE OF BUSINESS GROUPS	Number of establishments	VALUE OF CONSTRUCTION BUSINESS			PRINCIPAL EXPENDITURES		
		Total	Under general contract or directly for owner	Under sub-contract	Sub-contract work let	Wages paid	Cost of materials
MINNESOTA	561	\$105,798	\$88,829	\$16,069	\$17,687	\$25,739	\$85,269
<i>Counties and principal cities</i>							
Counties:							
Aitkin.....	3	272	272			71	114
Beltrami.....	3	278	235	40	10	70	161
Blue Earth.....	13	1,709	1,407	302	234	448	577
Brown.....	7	436	355	81	23	108	184
Clay.....	3	155	155		21	42	71
Crow Wing.....	4	756	706	50	102	149	402
Dakota.....	4	214	151	63	30	34	105
Freeborn.....	6	990	984	56	20	372	505
Hennepin.....	217	48,842	38,061	10,781	9,338	11,134	17,278
Kandiyohi.....	5	404	331	73	38	102	62
Mower.....	4	393	389	4	58	90	165
Nicollet.....	4	481	481		20	118	215
Olmsted.....	10	2,081	2,037	44	358	758	977
Other Tail.....	9	488	463	25	17	117	206
Ramsey.....	186	30,184	33,055	3,129	6,044	9,201	10,189
Rice.....	7	877	727	160	94	192	475
St. Louis.....	55	6,681	5,870	1,205	758	1,747	2,235
Stearns.....	10	1,131	1,078	53	220	234	346
Stevens.....	3	192	192			75	13
Wasca.....	3	153	153			15	47
Winona.....	11	597	420	171	41	133	266
Other counties ¹	35	1,972	1,842	130	228	498	669
Principal cities: ²							
Duluth.....	42	5,440	4,351	1,088	613	1,402	1,867
Minneapolis.....	213	48,553	37,777	10,776	9,332	11,015	17,161
St. Paul.....	133	35,981	32,848	3,132	6,031	9,153	10,888
<i>Classification of establishments</i>							
Operative builders.....	7	410	410		155	42	144
General contractors.....	320	82,690	81,658	1,032	16,901	19,431	25,393
Building.....	200	39,817	39,784	33	11,140	8,096	14,174
Building not specialized.....	144	39,529	39,477	62	8,974	6,970	12,095
Commercial building only.....	21	3,005	3,005		1,450	600	1,163
Residential building only.....	35	2,882	2,882		717	439	916
Highway.....	15	9,524	9,355	149	1,710	1,885	2,638
Bridge and culvert.....	16	6,825	6,803	22	124	1,207	2,741
Grading.....	28	4,175	3,882	293	730	303	121
Street paving.....	15	2,729	2,729		82	581	939
Sewer, gas, water, conduit.....	3	1,056	1,055	1	59	337	406
Dam and reservoir.....	3	1,948	1,948		134	453	786
Dredging, river, harbor, etc. ³	5	1,061	951	110	43	328	
Railroad.....	4	14,048	14,048		2,688	4,683	2,538
Central station, light and power plant.....	4	874	874		32	317	346
Other classes ⁴	3	1,054	1,250	404	121	354	704
Subcontractors.....	234	22,698	6,762	15,936	601	6,266	9,722
Concrete.....	2	618	258	260	56	213	156
Electrical.....	27	2,891	854	1,537	17	612	1,187
Heating and plumbing.....	106	8,084	3,796	4,288	214	1,819	4,245
Heating and piping ⁵	22	2,535	1,449	1,086	107	506	1,342
Pipe covering.....	4	185	20	159		58	80
Plumbing.....	44	2,940	1,065	1,875	56	708	1,605
Plumbing and heating combined.....	36	2,424	1,256	1,168	51	548	1,218
Masonry.....	4	401	106	295		222	94
Painting and decorating ⁶	22	1,340	297	1,043	1	661	308
Plastering and lathing.....	13	1,124	61	1,063	46	553	303
Roofing and sheet-metal work.....	20	1,467	409	1,058	12	387	653
Roofing.....	11	800	346	454		190	367
Sheet-metal work.....	6	475	69	412	12	141	197
Roofing and sheet metal combined.....	3	186		186		56	88
Marble and tiling.....	10	1,442	50	1,392	1	478	599
Excavating.....	9	1,614	485	1,129	152	479	64
Ornamental iron ⁷	4	2,146	224	1,922	98	333	1,624
Highway and grading.....	4	1,410	32	1,384	4	382	413
Metal work, n. e. s. ⁸	3	464		464		68	217
Other classes ⁹	4	262	188	94		61	156
<i>Size of business groups</i>							
General contractors ¹⁰	327	83,100	82,068	1,032	17,096	19,473	25,537
\$25,000 to \$49,999.....	89	3,152	3,158	14	480	758	1,250
\$50,000 to \$99,999.....	86	5,904	5,794	110	1,074	1,961	1,997
\$100,000 to \$199,999.....	57	7,937	7,798	139	1,327	1,991	2,498
\$200,000 to \$499,999.....	56	10,806	10,650	150	4,082	3,632	4,982
\$500,000 to \$999,999.....	28	10,323	10,105	218	4,581	4,733	5,755
\$1,000,000 and over.....	11	29,948	28,548	400	5,562	6,998	9,955
Building contractors ¹¹	207	40,227	40,175	52	11,325	8,138	14,318
\$25,000 to \$49,999.....	64	2,277	2,274	3	480	457	1,008
\$50,000 to \$99,999.....	58	3,942	3,817	25	899	910	1,647
\$100,000 to \$199,999.....	35	4,966	4,900		990	2,175	1,856
\$200,000 to \$499,999.....	33	10,172	10,148	24	2,853	2,265	3,415
\$500,000 to \$999,999.....	13	9,240	9,240		3,258	2,181	3,453
\$1,000,000 and over.....	4	9,629	9,629		2,845	1,150	3,939
Subcontractors.....	106	13,891	3,342	10,549		193	3,886
Concrete.....	5	238	56	182		51	100
Electrical.....	12	1,342	284	1,058		17	370
Heating and plumbing.....	42	3,941	2,022	1,920		37	993
Heating and piping ¹²	8	1,338	824	515		13	358
Plumbing.....	21	1,681	572	1,109		18	365
Plumbing and heating combined.....	13	922	626	296		0	239
Masonry.....	4	401	106	295			222
Painting and decorating ¹³	9	728	165	563			335
Plastering and lathing.....	6	923	923			39	459
Roofing and sheet-metal work.....	6	580	246	334		2	144
Marble and tiling.....	5	1,059	33	1,026			327
Excavating.....	4	608	157	451			212
Ornamental iron ¹⁴	4	2,146	224	1,922		98	1,323
Metal work, n. e. s. ¹⁵	3	464		464			68
Other classes ¹⁶	3	1,402	95	1,303			241

See footnotes at end of table.

CONSTRUCTION—MINNESOTA

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

(Values expressed in thousands)

AREA, CLASSIFICATION OF ESTABLISHMENTS, AND SIZE OF BUSINESS GROUPS	Number of establishments	VALUE OF CONSTRUCTION BUSINESS			PRINCIPAL EXPENDITURES			AREA, CLASSIFICATION OF ESTABLISHMENTS, AND SIZE OF BUSINESS GROUPS	Number of establishments	VALUE OF CONSTRUCTION BUSINESS			PRINCIPAL EXPENDITURES		
		Total	Under general contract or directly for owner	Under sub-contract	Sub-contract work let	Wages paid	Cost of materials			Total	Under general contract or directly for owner	Under sub-contract	Sub-contract work let	Wages paid	Cost of materials
MINNEAPOLIS—Contd.							ST. PAUL—Continued.								
<i>Size of business groups</i>							<i>Classification of establishments—Continued</i>								
General contractors ¹	107	\$34,662	\$34,435	\$227	\$0,139	\$7,129	\$11,021	Subcontractors.....	61	\$4,878	\$1,952	\$2,926	\$255	\$1,293	\$1,014
\$25,000 to \$49,999.....	16	562	562	—	200	95	205	Electrical.....	5	604	448	156	—	133	313
\$50,000 to \$99,999.....	24	1,762	1,692	70	430	359	600	Heating and plumbing.....	30	2,023	894	1,129	101	376	1,075
\$100,000 to \$199,999.....	20	2,747	2,736	11	544	587	935	Heating and pipe covering.....	10	907	624	343	49	132	536
\$200,000 to \$499,999.....	27	8,304	8,183	121	2,473	1,883	2,074	Plumbing.....	13	585	216	369	20	140	311
\$500,000 to \$999,999.....	16	11,364	11,340	24	2,875	2,880	3,167	Plumbing and heating combined.....	7	471	54	417	32	104	228
\$1,000,000 and over.....	4	9,925	9,925	—	2,605	1,325	4,041	Painting and decorating.....	8	333	133	206	1	179	69
Building contractors ²	76	23,541	23,513	29	7,671	4,219	7,894	Plastering, marble, and tiling.....	5	373	13	360	2	176	126
\$25,000 to \$49,999.....	10	562	562	—	206	95	205	Roofing and sheet-metal work.....	9	583	100	483	—	165	267
\$50,000 to \$99,999.....	19	1,356	1,351	5	399	243	514	Roofing.....	4	105	100	95	—	52	79
\$100,000 to \$199,999.....	11	1,553	1,553	—	319	371	560	Roofing and sheet metal combined.....	5	388	—	388	—	113	178
\$200,000 to \$499,999.....	19	6,148	6,124	24	1,857	1,412	1,905	Other classes ¹⁴	4	961	364	597	151	204	74
\$500,000 to \$999,999.....	8	5,602	5,602	—	2,335	1,144	1,365	<i>Size of business groups</i>							
\$1,000,000 and over.....	3	8,321	8,321	—	2,555	954	3,346	General contractors ¹	72	31,102	30,897	206	5,776	7,866	8,175
Subcontractors.....	106	13,891	3,342	10,549	193	3,880	6,140	\$25,000 to \$49,999.....	19	676	674	2	141	158	242
\$25,000 to \$49,999.....	28	1,016	344	672	2	297	482	\$50,000 to \$99,999.....	13	933	933	—	212	208	326
\$50,000 to \$99,999.....	38	2,573	1,003	1,570	24	761	1,183	\$100,000 to \$199,999.....	14	1,950	1,941	9	348	552	530
\$100,000 to \$199,999.....	21	2,916	535	2,331	45	1,118	948	\$200,000 to \$499,999.....	12	3,648	3,646	—	912	652	1,114
\$200,000 to \$499,999.....	17	4,964	1,409	3,555	122	1,347	2,033	\$500,000 to \$999,999.....	8	5,196	4,996	194	1,326	917	1,450
\$1,000,000 and over.....	2	2,423	—	2,423	—	862	1,494	\$1,000,000 and over.....	6	18,708	18,708	—	2,837	5,373	4,502
ST. PAUL.....	133	35,981	32,848	3,132	6,031	9,153	10,088	Building contractors ¹	43	7,732	7,732	—	2,192	1,620	2,612
<i>Classification of establishments</i>							<i>Classification of establishments</i>								
General contractors ¹	72	31,102	30,897	206	5,776	7,866	8,175	\$25,000 to \$49,999.....	13	474	474	—	141	92	168
Building.....	43	7,732	7,732	—	2,192	1,620	2,612	\$50,000 to \$99,999.....	10	696	696	—	212	145	262
Building not specialized ²	36	7,389	7,389	—	2,014	1,576	2,514	\$100,000 to \$199,999.....	10	1,467	1,467	—	305	428	460
Residential building only.....	7	344	344	—	178	50	98	\$200,000 to \$499,999.....	6	1,749	1,749	—	521	336	661
Highway.....	7	3,002	2,993	9	341	424	651	\$500,000 to \$999,999.....	3	2,038	2,038	—	723	426	466
Bridge and culvert.....	3	3,016	3,014	2	529	1,477	—	\$1,000,000 and over.....	1	1,309	1,309	—	290	190	594
Grading.....	3	1,266	1,072	194	541	238	79	Subcontractors.....	61	4,878	1,952	2,926	255	1,293	1,914
Street paving.....	5	1,350	1,350	—	14	245	467	\$25,000 to \$49,999.....	33	1,166	495	671	20	335	515
Sewer, gas, water, conduit.....	4	665	665	—	204	248	—	\$50,000 to \$99,999.....	17	1,101	218	886	4	379	405
Railroad.....	3	13,467	13,467	—	2,688	4,446	2,362	\$100,000 to \$199,999.....	5	645	274	371	53	188	289
Other classes ¹⁴	4	604	604	—	90	278	—	\$200,000 to \$499,999.....	5	1,410	766	704	32	266	642
								\$500,000 to \$999,999.....	1	555	262	293	146	125	62
								\$1,000,000 and over.....	1	—	—	—	—	—	—

¹ Includes Anoka, Becker, Benton, Big Stone, Carlton, Carver, Chippewa, Chisago, Goodhue, Jackson, McLeod, Marshall, Martin, Mille Lacs, Morrison, Nobles, Norman, Pennington, Pine, Pope, Redwood, Renville, Scott, Steele, Todd, Wabasha, and Wright, 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.

² Data for cities are also included in the figures for the respective counties.

³ Includes levees.

⁴ Includes waterworks; foundation.

⁵ Includes automatic temperature control.

⁶ Includes flooring, n. e. s.

⁷ Includes steel erection.

⁸ Includes bridge and culvert; foundation; soundproofing; and glass and glazing.

⁹ Includes operative builders.

¹⁰ Includes sewer, gas, water, conduit; dam and reservoir; waterworks; dredging, river and harbor; and foundation.

¹¹ Includes concreting; electrical; sheet metal work; and foundation.

¹² Includes dam and reservoir; and central station, light and power plant.

¹³ Includes pipe covering; and automatic temperature control.

¹⁴ Includes highway; grading; and sound proofing.

¹⁵ Includes waterworks; dredging, river, harbor, etc.; and central station, light and power plant.

¹⁶ Includes excavating; grading; and foundation.

CONSTRUCTION—MINNESOTA

647

TABLE 3.—CONSTRUCTION BUSINESS DURING 1929, BY LOCATION

CLASSIFICATION OF ESTABLISHMENTS	Establishments reporting	MINNESOTA			CLASSIFICATION OF ESTABLISHMENTS	Establishments reporting	MINNEAPOLIS				
		Total	In home city	In home State			Total	In home city	In home State	Outside home State	
MINNESOTA	543	\$101,154,817	\$41,730,728	\$64,842,266	\$38,312,821	MINNEAPOLIS	200	\$45,028,150	\$22,726,110	\$32,468,919	\$12,550,231
Operative builders.....	7	409,950	400,950	400,950	Operative builders.....	5	226,850	228,550	228,550	-----	
General contractors.....	312	80,373,851	28,791,145	47,763,357	32,610,494	General contractors.....	98	33,038,018	15,369,853	22,807,094	10,230,924
Building.....	196	38,822,112	22,959,020	20,897,246	8,924,866	Building.....	68	22,617,232	14,630,418	16,678,935	5,038,297
Building not specialized.....	141	32,684,724	18,969,801	25,101,208	7,583,426	Building not specialized.....	41	18,105,869	11,908,446	13,544,212	4,651,357
Commercial building only.....	21	3,905,830	2,148,209	2,613,890	1,291,440	Commercial building only.....	13	3,429,950	1,741,233	2,143,010	1,236,940
Residential building only.....	34	2,322,058	1,841,010	2,182,058	50,000	Residential building only.....	14	991,713	926,739	991,713	-----
Highway.....	34	293,602	308,476	3,735,430	5,558,172	Highway and street paving.....	12	4,198,645	203,933	1,821,238	2,377,407
Bridge and culvert.....	15	6,824,061	1,090,454	3,310,531	2,514,130	Bridge, culvert, and railroad.....	7	2,604,172	282,792	1,380,564	1,233,608
Grading.....	28	3,200,948	1,192,080	1,020,428	1,370,520	Grading.....	5	646,719	-----	545,481	101,238
Street paving.....	15	2,728,682	1,762,854	2,434,339	294,343	Dredging, river, harbor, etc. ¹	3	750,242	35,710	275,876	474,366
Sewer, gas, water, conduit.....	8	1,055,826	501,146	834,070	220,856	Other classes ²	3	2,221,003	202,000	2,105,000	116,008
Dredging, river, harbor, etc. ¹	5	1,060,831	35,710	586,465	474,366	Subcontractors.....	97	11,763,682	7,134,707	9,435,275	2,328,307
Railroad.....	4	14,047,940	243,020	2,268,707	11,779,233	Concreting.....	5	237,691	177,691	227,691	10,000
Central station, light and power plant.....	4	874,480	77,480	774,480	100,000	Electrical.....	11	901,539	851,085	898,099	3,440
Other classes ³	5	3,374,769	570,005	2,000,761	1,374,008	Heating and plumbing.....	39	3,402,021	2,828,129	3,258,511	143,510
Subcontractors.....	224	20,371,016	12,529,633	16,668,989	3,702,027	Heating and piping ¹⁰	8	1,338,198	848,306	1,249,688	88,510
Concreting.....	12	618,393	230,586	367,476	150,917	Plumbing.....	19	1,390,166	1,390,166	1,390,166	-----
Electrical.....	20	1,950,913	1,702,002	1,921,373	29,540	Plumbing and heating combined.....	12	673,657	587,657	618,657	55,000
Heating and plumbing.....	102	7,345,681	5,083,078	6,569,455	776,226	Masonry.....	3	299,363	34,000	187,893	111,500
Heating and piping.....	21	2,334,798	1,400,986	1,944,059	390,739	Painting and decorating ⁴	9	727,749	654,613	670,946	56,803
Pipe covering.....	4	184,985	109,959	165,867	29,118	Plastering and lathing.....	8	814,450	533,668	590,761	223,689
Plumbing.....	42	2,650,074	2,599,067	2,610,872	39,202	Roofing and sheet-metal work.....	6	580,147	470,766	532,547	17,600
Plumbing and heating combined.....	35	2,175,824	1,573,000	1,858,057	317,167	Marble and tiling.....	4	623,667	526,308	584,790	38,877
Masonry.....	3	299,363	34,000	187,893	111,500	Excavating.....	3	520,251	235,411	392,896	127,355
Painting and decorating ⁴	22	1,346,009	1,170,180	1,287,268	68,741	Metal work, n. e. s. ⁵	6	2,254,077	754,965	954,021	1,300,956
Plastering and lathing.....	12	1,016,208	685,379	1,750,614	265,594	Other classes ¹¹	3	1,401,727	70,171	1,107,150	294,577
Roofing and sheet-metal work.....	20	1,497,810	1,081,067	1,377,129	90,181	ST. PAUL	131	36,488,508	9,794,138	16,428,307	19,060,299
Roofing.....	11	800,360	576,574	700,200	46,100	General contractors ¹²	71	30,806,418	7,227,885	12,738,554	18,071,804
Sheet-metal work.....	0	474,749	348,593	430,728	44,021	Building.....	42	7,435,276	3,568,804	5,450,988	1,984,288
Roofing and sheet-metal combined.....	3	186,192	156,500	186,192	137,503	Building not specialized ¹²	35	7,091,670	3,225,258	5,107,382	1,984,288
Marble and tiling.....	0	1,000,631	652,482	869,128	-----	Residential building only.....	7	343,606	343,606	343,606	-----
Excavating.....	8	1,460,614	370,541	1,020,128	440,486	Highway.....	7	3,002,485	56,584	1,027,777	1,974,708
Metal work, n. e. s. ⁵	6	2,254,077	754,965	1,504,021	1,300,956	Bridge and culvert.....	3	3,016,272	1,605,162	1,605,162	1,321,110
Highway and grading.....	4	1,416,458	11,576	1,122,184	294,274	Grading.....	3	1,205,539	70,691	388,794	876,745
Other classes ⁶	4	282,459	144,171	242,350	40,109	Street paving.....	5	1,349,691	880,162	1,080,158	269,533
						Sewer, gas, water, conduit.....	4	604,752	393,922	488,507	176,245
						Railroad.....	3	13,466,923	245,020	2,105,688	11,361,235
						Other classes ¹³	4	604,480	310,480	496,480	108,000
DULUTH	39	4,818,074	2,395,393	3,131,254	1,686,820	Subcontractors.....	60	4,678,088	2,566,263	3,689,653	988,435
General contractors.....	10	3,029,040	1,589,735	2,196,355	1,433,285	Electrical.....	5	604,332	421,775	578,232	26,100
Building.....	9	1,276,196	1,010,738	1,159,047	117,149	Heating and plumbing.....	29	1,822,903	1,002,995	1,310,555	612,348
Street paving.....	5	470,500	442,446	451,780	24,810	Heating and pipe covering.....	9	787,240	296,460	457,059	310,181
Other classes ⁷	5	1,876,854	136,551	585,528	1,291,326	Plumbing.....	13	684,727	568,727	569,727	15,000
Subcontractors.....	20	1,188,434	805,658	934,899	253,535	Plumbing and heating combined.....	7	470,936	230,808	283,769	187,167
Heating and plumbing.....	7	444,899	413,428	423,733	21,166	Painting and decorating.....	8	333,156	294,218	331,218	1,938
Pipe covering and heating.....	3	107,845	83,079	80,679	21,166	Plastering, marble, and tiling.....	5	373,424	193,283	320,507	52,917
Plumbing and heating combined.....	4	337,054	329,749	337,054	-----	Roofing and sheet-metal work.....	9	583,478	391,776	523,477	60,001
Painting, decorating, and glazing.....	4	180,455	177,455	180,455	-----	Roofing.....	4	196,046	134,058	170,480	24,560
Marble, tiling, and plastering.....	4	211,298	84,002	123,684	87,614	Roofing and sheet metal combined.....	5	388,432	257,718	352,991	35,441
Other classes ⁸	5	351,782	130,173	207,027	144,755	Other classes ¹⁴	4	900,795	172,206	625,664	335,131

¹ Includes levees.
² Includes dam and reservoir; waterworks; and foundation.
³ Includes automatic temperature control.
⁴ Includes flooring, n. e. s.
⁵ Includes steel erection; and ornamental iron.
⁶ Includes glass and glazing; bridge and culvert; foundation; and soundproofing.
⁷ Includes highway; sewer, gas, water, conduit; 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 pipe covering; and automatic temperature control.
¹¹ Includes highway; grading; and soundproofing.
¹² Includes operative builders.
¹³ Includes waterworks; dredging, river, harbor, etc. and central station, light and power plant.
¹⁴ Includes excavating; grading; and foundation.

CONSTRUCTION—MINNESOTA

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

STATE OR COUNTY	LOCATION REPORTED BY—			STATE OR COUNTY	LOCATION REPORTED BY—		
	All classes of establishments	General contractors	Subcontractors		All classes of establishments	General contractors	Subcontractors
MINNESOTA				MINNEAPOLIS—Continued			
Total distributed by State or county ¹	\$86,312,521	\$82,610,494	\$3,702,027	Total distributed by State or county—Continued.			
Arkansas.....	630,702	630,702		Connecticut.....	\$1,258		\$1,258
California.....	1,478,635	1,451,895	26,640	District of Columbia.....	1,532		1,532
Colorado.....	700		700	Idaho.....	1,375		1,375
Connecticut.....	1,258		1,258	Illinois.....	939,635	\$409,642	539,993
District of Columbia.....	1,532		1,532	Indiana.....	201,415		210,435
Idaho.....	1,375		1,375	Iowa.....	998,539	552,226	140,313
Illinois.....	3,254,281	2,417,554	836,707	Kansas.....	540,014	540,014	
Indiana.....	201,415		201,415	Louisiana.....	111,500		111,500
Iowa.....	2,634,300	2,471,195	163,105	Michigan.....	1,269,448	917,194	352,254
Kansas.....	558,964	540,014	18,950	Mississippi.....	35,185		35,185
Louisiana.....	111,500		111,500	Missouri.....	612,724	281,808	330,016
Michigan.....	3,710,171	3,278,396	431,775	Montana.....	916,438	580,956	35,482
Mississippi.....	35,185		35,185	Nebraska.....	995		995
Missouri.....	1,991,071	1,654,155	336,916	New York.....	1,003,602	1,003,602	
Montana.....	2,208,417	2,168,897	39,420	North Dakota.....	1,392,801	1,329,784	63,017
Nebraska.....	995		995	Ohio.....	169,179		169,179
New Jersey.....	619,449	619,449		Oklahoma.....	28,300		28,300
New York.....	1,048,502	1,048,502		South Dakota.....	242,354	235,378	6,976
North Dakota.....	3,152,292	2,868,632	283,660	Tennessee.....	32,996		32,996
Ohio.....	2,164,268	1,958,208	206,060	Texas.....	63,000	63,000	
Oklahoma.....	28,300		28,300	Utah.....	63,023		63,023
Oregon.....	1,102,065	1,102,065		Washington.....	114,439	84,439	30,000
Pennsylvania.....	384,747	384,747		Wisconsin.....	3,978,108	3,887,228	110,880
South Dakota.....	432,182	317,095	115,087	Other States.....	401,636	364,758	36,878
Tennessee.....	32,996		32,996	Canada.....	12,495		12,495
Texas.....	383,477	383,477		ST. PAUL			
Utah.....	602,062	539,039	63,023	Total distributed by State or county ⁴	19,060,299	18,071,804	988,495
Washington.....	756,429	726,429	30,000	Arizona.....	630,702	630,702	
West Virginia.....	1,479,502	1,479,502		California.....	1,451,895	1,451,895	
Wisconsin.....	5,835,749	5,215,550	620,199	Illinois.....	1,079,344	1,458,128	221,216
Wyoming.....	123,934	123,934		Iowa.....	550,430	541,638	14,792
Other States, n. s.....	1,165,681	1,104,913	60,768	Kansas.....	18,950		18,950
Canada.....	175,515	120,049	55,466	Michigan.....	1,156,113	1,078,202	77,911
South America, n. s.....	5,000	5,000		Missouri.....	1,372,347	1,435,041	8,988
DULUTH				Montana.....	1,438,979	619,449	8,988
Total distributed by State or county ²	1,086,820	1,433,285	253,535	New Jersey.....	619,449	45,000	45,000
Illinois.....	83,498		83,498	North Dakota.....	1,289,412	1,106,312	183,100
Michigan.....	1,261,610	1,250,000	1,610	Ohio.....	1,958,208	1,958,208	
North Dakota.....	63,118	25,575	37,543	Oregon.....	1,102,065		1,102,065
Ohio.....	36,871		36,871	Pennsylvania.....	384,747	384,747	
Wisconsin.....	145,480	66,186	79,354	South Dakota.....	185,328		108,111
Other States.....	10,464	1,574	8,890	Texas.....	320,477	320,477	
Canada.....	95,769	90,000	5,769	Utah.....	539,039	539,039	
MINNEAPOLIS				Washington.....	641,980	641,980	
Total distributed by State or county ³	12,559,231	10,230,924	2,328,307	West Virginia.....	1,479,502	1,479,502	
California.....	26,640		26,640	Wisconsin.....	1,330,758	998,341	332,417
Colorado.....	700		700	Wyoming.....	123,934	123,934	

Number of establishments reporting:

¹ All classes, 157—general contractors, 101; subcontractors, 56.
² All classes, 16—general contractors, 7; subcontractors, 9.

³ All classes, 60—general contractors, 37; subcontractors, 23.
⁴ All classes, 55—general contractors, 33; subcontractors, 17.

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

CLASSIFICATION OF ESTABLISHMENTS	Estab-lishments reporting	PROPRIETORS AND FIRM MEMBERS			SALARIED EMPLOYEES						Sex not re-ported			
		Re-ceiving no salary	Receiving salar-ies		All salaried em-ployees		Officers and cler-ical staff		Superintendents, foremen, etc.			Number reported, by sex		
			Num-ber	Total annual salaries	Total number	Total annual salaries	Num-ber	Total annual salaries	Num-ber	Total annual salaries		Total	Male	Fe-male
MINNESOTA	547	408	161	\$592,706	1,909	\$5,292,909	932	\$2,831,562	1,067	\$2,461,347	1,687	1,471	216	312
Operative builders.....	7	4	5	14,169										
General contractors.....	313	251	70	247,343	1,501	4,161,495	552	1,993,845	949	2,167,650	1,275	1,163	112	226
Building.....	198	155	42	160,001	571	1,513,686	268	781,378	303	732,308	457	393	64	114
Building not specialized.....	141	109	31	126,769	463	1,331,660	229	702,971	254	628,680	376	321	55	107
Commercial building only.....	20	15	6	16,284	60	140,687	21	55,002	39	85,685	57	52	5	3
Residential building only.....	35	31	5	16,968	28	41,330	18	23,405	10	17,934	24	20	4	4
Highway.....	35	39	10	21,814	134	328,759	56	155,849	79	173,410	106	91	15	28
Bridges and culvert.....	14	9			117	440,913	43	240,590	74	200,323	88	84	4	20
Grading.....	28	28	10	38,047	83	189,336	40	119,032	43	70,304	54	50	4	20
Street paving.....	13	8	4	8,832	39	104,934	20	59,970	19	44,964	25	21	4	14
Sewer, gas, water, conduit.....	8	6	4	4,816	18	60,094	9	30,563	9	29,631	17	16	1	1
Dam and reservoir.....	3	1	3	13,833	27	99,400	23	80,800	4	18,600	27	26	1	
Dredging, river, harbor, etc. ¹	5				38	140,527	24	111,874	14	37,653	27	25	2	11
Railroad.....	4	1			433	1,120,201	49	320,489	384	799,712	433	419	14	
Central station, light and power plant.....	4	3			15	56,445	7	35,400	8	21,045	15	15		
Other classes ²	3	1			20	98,200	14	58,400	12	39,800	26	23	3	
Subcontractors.....	227	163	76	271,194	408	1,131,414	380	837,717	118	283,697	412	308	104	86
Concreting.....	8	5	3	9,502	18	31,724	6	9,350	12	22,374	18	17	1	
Electrical.....	26	11	14	40,873	83	189,139	70	142,315	13	26,824	68	53	15	15
Heating and plumbing.....	105	73	44	158,472	195	485,637	166	405,792	29	79,845	163	117	46	32
Heating and piping ³	21	7	9	31,142	56	178,829	43	140,284	13	36,545	47	34	13	9
Pipe covering.....	4	1			16	24,351	12	15,661	4	8,690	13	9	4	3
Plumbing.....	44	39	20	66,900	67	152,678	65	145,628	2	7,050	56	41	15	11
Plumbing and heating combined.....	36	26	15	60,430	56	131,778	46	104,219	10	27,560	47	33	14	9

See footnotes at end of table.

CONSTRUCTION—MINNESOTA

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

CLASSIFICATION OF ESTABLISHMENTS	re- Establishments reporting	Value of con- struction business reported	PRINCIPAL ITEMS OF EXPENDITURE			OTHER ITEMS OF EXPENDITURE							All other overhead expenses
			Subcon- tract work let	Wages paid	Cost of materials	Salaries		Rent for		Interest	Contract bond premi- ums	Compen- sation and liability insur- ance premi- ums	
						Proprie- tors and firm members	Em- ployees	Equip- ment	Offices, etc.				
ST. PAUL—Continued													
Subcontractors.....	55	\$4,579,365	\$255,000	\$1,153,720	\$1,823,837	\$37,733	\$254,209	\$24,043	\$30,281	\$19,745	\$14,934	\$41,480	\$801,715
Electrical.....	5	604,332	---	132,857	313,386	3,000	46,496	---	5,513	1,683	2,011	6,565	50,393
Heating and plumbing.....	28	1,945,958	101,000	356,551	1,039,602	15,906	135,071	2,093	14,399	7,182	3,584	6,869	76,594
Roofing and pipe covering.....	9	935,295	49,000	125,045	517,527	5,160	64,824	2,093	4,421	1,708	541	2,517	25,205
Plumbing.....	12	539,727	20,000	127,117	293,626	840	24,458	---	7,100	3,034	1,120	2,256	30,115
Plumbing and heating com- bined.....	7	470,936	32,000	104,389	228,449	9,906	45,780	---	2,878	2,440	1,923	2,066	21,274
Painting and decorating.....	5	140,283	1,000	63,502	26,270	3,300	7,666	---	1,780	418	20	1,814	4,928
Plastering, marble, and tiling.....	5	373,424	2,000	175,831	120,105	---	10,880	42	2,400	1,673	850	2,911	15,952
Roofing and sheet-metal work.....	8	554,573	---	155,639	244,967	---	27,666	---	6,382	2,675	558	7,038	52,039
Roofing.....	4	105,046	---	52,021	78,625	---	15,496	---	4,162	1,327	160	1,792	12,839
Roofing and sheet metal com- bined.....	4	359,527	---	103,618	166,342	---	12,170	---	2,220	1,348	398	5,246	30,200
Other classes.....	4	960,795	151,000	284,340	73,507	15,527	26,490	22,808	3,807	6,114	7,911	16,283	401,809

¹ Includes levee.
² Includes dam and reservoir; waterworks; and foundation.
³ Includes automatic temperature control.
⁴ Includes flooring, n. e. s.
⁵ Includes steel erection.
⁶ Includes glass and glazing; highway; bridge and culvert; grading; soundproofing; and foundation.
⁷ 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 pipe covering; and automatic temperature control.
¹¹ Includes excavating; and soundproofing.
¹² Includes operative builders.
¹³ Includes grading; waterworks; and central station, light, and power plant.
¹⁴ Includes excavating; grading; and foundation.

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

KIND OF MATERIAL	COST OF MATERIALS REPORTED BY—					KIND OF MATERIAL	COST OF MATERIALS REPORTED BY—				
	All classes of estab- lishments			General contractors ²	Subcon- tractors		All classes of estab- lishments			General contractors ²	Subcon- tractors
	Amount	Per cent distribution	Per \$1,000 construction work done ¹				Amount	Per cent distribution	Per \$1,000 construction work done ¹		
MINNESOTA						MINNESOTA—Continued					
All kinds of material.....	\$35,258,628	---	\$400.16	\$25,536,554	\$9,722,074	All kinds of material—Continued.	---	---	---	---	---
Distribution not reported.....	9,579,491	27.2	---	7,625,567	1,053,924	Distributed by kind—Continued.	---	---	---	---	---
Distributed by kind.....	25,679,137	100.0	---	17,910,987	7,768,150	Pipe: Cast-iron, sheet, and tube	---	---	---	---	---
Sand, gravel, stone, slag, cinders, etc.....	2,450,674	9.5	38.19	2,371,202	79,472	steel, etc.....	\$240,342	0.9	\$3.75	\$140,818	\$99,524
Brick (face, common, fire, pav- ing, etc.).....	673,157	2.6	10.49	650,316	22,841	Wire cable, guards, and fencing.....	33,256	0.1	52	33,256	---
Tile (fireproofing).....	204,980	.8	3.19	160,580	35,400	Bituminous paving materials, tar, asphalt, and oil.....	183,972	.7	2.87	173,688	5,284
Tile, facing, terra cotta, floor, and wall.....	463,413	1.8	7.22	220,661	242,752	Wood piling and timber.....	212,683	.8	3.31	201,183	11,500
Concrete and cinder block.....	125,770	.5	1.06	114,259	11,481	Ready mixed concrete.....	21,362	.1	33	20,376	986
Cut stone, granite, and marble.....	822,466	3.2	12.82	612,786	209,680	Machinery.....	218,201	.8	3.40	218,201	---
Riprap, rubble, etc.....	10,804	?	.17	8,199	2,605	Freight, hauling or trucking to job.....	118,717	.5	1.85	113,198	5,519
Cement.....	2,854,689	11.1	44.40	2,693,668	161,021	Chemicals and chemical prod- ucts.....	5,349	?	.08	4,078	1,271
Lime.....	86,659	.3	1.34	70,938	14,721	Metal products, n. e. s. (includ- ing metal furniture).....	189,858	.7	2.96	151,157	38,701
Plaster, etc.....	342,734	1.3	5.34	243,860	98,865	Mineral products (nonmetallic), n. e. s.....	2,402	?	.04	2,402	---
Structural steel.....	1,726,754	6.7	26.89	1,477,199	248,555	Textiles and caulking materials.....	225	?	?	225	---
Reinforcing steel.....	1,338,922	5.2	20.86	1,322,226	16,696	Miscellaneous.....	164,983	.6	2.57	162,028	2,960
Cast iron, miscellaneous (exclud- ing pipe).....	139,847	.5	2.18	41,175	98,672	DULUTH					
Metal doors, windows, and trim.....	338,037	1.3	5.27	226,523	111,514	All kinds of material.....	1,867,346	---	386.85	1,451,204	416,142
Metal and wire lath and furring.....	181,880	.7	2.83	49,839	131,991	Distribution not reported.....	594,624	31.8	---	501,886	92,738
Ornamental metal work.....	1,505,958	5.9	23.47	459,223	1,018,736	Distributed by kind.....	1,272,722	100.0	---	949,818	323,404
Lumber, rough and finished.....	2,262,342	8.8	35.10	2,235,138	17,204	Sand, gravel, stone, slag, cinders, etc.....	201,662	15.8	61.30	192,059	9,603
Lath, shingles, and shakes (wood).....	100,993	.4	1.57	91,252	9,741	Brick (face, common, fire, pav- ing, etc.).....	26,642	2.1	8.10	25,861	781
Millwork.....	961,847	3.7	14.99	948,844	12,303	Tile (fireproofing).....	7,600	.6	2.31	7,600	---
Composition board.....	177,708	.7	2.77	69,125	108,578	Tile, facing, terra cotta, floor, and wall.....	10,986	.9	3.34	---	10,986
Waterproofing materials.....	93,386	.4	1.46	51,843	42,043	Concrete and cinder block.....	2,700	.2	.82	2,000	700
Hardware, rough and finished.....	419,564	1.6	6.54	407,690	11,874	Cut stone, granite, and marble.....	19,111	1.5	5.81	12,211	6,900
Paints, varnishes, glass.....	480,134	1.9	7.48	205,430	274,698	Cement.....	118,962	9.3	36.16	111,955	7,007
Roofing and sheet metal.....	708,283	2.8	11.04	288,237	440,046	Lime.....	2,863	.2	.87	1,630	1,393
Finished flooring (other than cement, wood, or tile).....	62,436	.2	.97	57,069	4,487	Plaster, etc.....	7,314	.6	2.22	---	7,314
Screens, shades, awnings, etc.....	55,975	.2	.87	31,382	24,593	Structural steel.....	11,781	.9	3.58	11,781	---
Heating and ventilating equip- ment.....	1,730,377	6.7	26.96	252,569	1,477,808	Reinforcing steel.....	59,540	4.7	18.10	59,530	10
Plumbing and gas fitting equip- ment.....	1,870,521	7.3	29.15	276,504	1,594,017	Cast iron, miscellaneous, exclud- ing pipe.....	5	?	?	---	5
Electrical appliances and sup- plies.....	1,411,511	5.6	22.00	364,282	1,047,229	Metal doors, windows, and trim.....	2,390	.2	.73	1,375	1,015
Elevators, dumb-waiters, and equipment.....	458,467	1.8	7.14	450,467	8,000	Metal and wire lath and furring.....	4,977	.4	1.51	---	4,977
Pipe: Drain tile, vitrified, con- crete, segment tile, corrugated.....	239,199	.9	3.73	212,896	26,303	Ornamental metal work.....	3,002	.2	.91	1,620	1,373
						Lumber, rough and finished.....	388,343	30.5	118.04	388,247	96

See footnotes at end of table.

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

KIND OF MATERIAL	COST OF MATERIALS REPORTED BY—					KIND OF MATERIAL	COST OF MATERIALS REPORTED BY—				
	All classes of establishments			General contractors ¹	Subcontractors		All classes of establishments			General contractors ²	Subcontractors
	Amount	Per cent distribution	Per \$1,000 construction work done ³				Amount	Per cent distribution	Per \$1,000 construction work done ³		
DULUTH—Continued					MINNEAPOLIS—Continued						
All kinds of material—Continued.					All kinds of material—Continued.						
Distributed by kind—Continued.					Distributed by kind—Continued.						
Millwork	\$19,089	1.5	\$5.80	\$19,089		Bituminous paving materials, tar, asphalt, and oil	\$11,254	0.1	\$0.35	\$7,970	\$8,284
Composition board	20,266	1.6	6.16	3,145	\$17,121	Wood piling and timber	195,192	1.4	6.27	195,192	
Waterproofing materials	2,675		.81	940	1,735	Ready-mixed concrete	2,624	(*)	.08	1,635	986
Hardware, rough and finished	33,060	2.6	10.05	32,790	270	Machinery	218,201	1.6	6.90	218,201	
Paints, varnishes, glass	38,707	3.0	11.76	500	38,207	Freight, hauling or trucking to job	15,827	.1	.50	10,308	5,519
Roofing and sheet metal	24,625	1.9	7.49	12,418	12,207	Chemicals and chemical products	606	(*)	.02	240	460
Finished flooring (other than cement, wood, or tile)		(*)	.01	25		Metal products, n. e. s., (including metal furniture)	169,470	1.2	5.86	135,651	33,819
Heating and ventilating equipment	82,613	6.5	25.11	1,200	81,413	Textiles and caulking materials	225	(*)	.01	225	
Plumbing and gas fitting equipment	115,274	9.1	35.04	800	114,474	Miscellaneous	102,520	.7	3.24	101,214	1,312
Electrical appliances and supplies	1,025	.1	.31	1,025		ST. PAUL					
Pipe: Drain tile, vitrified, concrete, segment tile, corrugated	1,885	.1	.57	1,735	150	All kinds of material					
Pipe: Cast-iron, sheet and tube steel, etc.	927	.1	.28	927		Distribution not reported					
Wire cable, guards, and fencing	6,000	.5	1.82	6,000		10,088,470		336.84	8,174,893	1,913,577	
Bituminous paving materials, tar, asphalt, and oil	17,000	1.3	5.17	17,000		4,020,485	39.9		3,562,080	458,399	
Freight, hauling or trucking to job	35,946	2.8	10.02	35,946		Distributed by kind					
Chemicals and chemical products	821	.1	.25	821		Sand, gravel, stone, slag, cinders, etc.	754,718	12.4	41.90	735,044	19,674
Metal products, n. e. s. (including metal furniture)	4,882	.4	1.49	4,882		Brick (face common, fire, paving, etc.)	218,169	3.6	12.11	208,856	9,314
Miscellaneous	24	(*)	.01	24		Tile (fireproofing)	54,916	.9	3.06	54,916	
						Tile, facing terra cotta, floor and wall	60,182	1.0	3.34	35,340	24,842
MINNEAPOLIS						Concrete and cinder block	56,092	0.9	3.15	53,646	3,046
All kinds of material						Cut stone, granite and marble	258,106	4.2	14.05	232,872	20,234
Distribution not reported						Riprap, rubble, etc.	3,048	.1	.37	3,048	2,250
Distributed by kind						Cement	817,478	13.5	45.38	778,778	38,699
Sand, gravel, stone, slag, cinders, etc.	988,088	7.1	31.26	958,306	29,783	Lime	25,369	.4	1.41	21,590	3,800
Brick (face common, fire, paving, etc.)	237,152	1.7	7.50	224,606	12,546	Plaster, etc.	41,483	.7	2.30	22,202	19,281
Tile (fireproofing)	117,009	.9	3.73	82,500	34,509	Structural steel	524,240	8.0	29.10	507,737	16,503
Tile, facing, terra cotta, floor, and wall	340,364	2.5	11.05	142,440	200,924	Reinforcing steel	424,727	7.0	23.58	423,127	1,600
Concrete and cinder block	49,498	.4	1.87	42,063	7,435	Cast iron, miscellaneous, excluding pipe	31,192	.5	1.73	31,192	
Cut stone, granite and marble	416,031	3.0	13.13	232,485	183,546	Metal doors, windows, and trim	62,554	1.0	3.47	62,554	
Riprap, rubble, etc.	5,156	(*)	.16	4,801	355	Metal and wire lath and furring	16,863	.3	.94	5,967	10,896
Cement	1,257,922	9.1	39.50	1,166,920	91,002	Ornamental metal work	59,828	1.0	3.32	58,810	6,018
Lime	38,438	.3	1.22	28,850	9,588	Lumber, rough and finished	480,171	7.9	26.65	478,181	1,990
Plaster, etc.	250,224	1.8	7.92	177,954	72,270	Lath, shingles, and shakes (wood)	8,534	.1	.47	3,534	5,000
Structural steel	980,130	6.9	30.37	735,378	244,752	Millwork	189,625	3.1	10.53	189,625	
Reinforcing steel	571,255	4.1	18.07	568,909	2,346	Composition board	22,841	.4	1.26	20,566	2,075
Cast iron, miscellaneous (excluding pipe)	101,729	.7	3.22	3,062	98,667	Waterproofing materials	26,602	.4	1.48	26,337	325
Metal doors, windows, and trim	195,147	1.4	6.17	84,648	110,499	Hardware, rough and finished	66,048	1.1	3.66	65,918	130
Metal and wire lath and furring	133,805	1.0	4.23	17,687	116,118	Paints, varnishes, glass	85,380	1.4	4.74	26,805	59,775
Ornamental metal work	1,434,073	10.4	45.37	424,729	1,009,344	Roofing and sheet metal	209,562	4.0	16.63	48,705	250,847
Lumber, rough and finished	860,763	6.3	27.42	859,145	7,618	Finished flooring (other than cement, wood, or tile)	14,380	.2	.80	14,380	
Lath, shingles, and shakes (wood)	10,418	.1	.33	5,677	4,741	Screens, shades, awnings, etc.	2,037	(*)	.11	2,037	
Millwork	432,583	3.1	13.69	410,780	12,803	Heating and ventilating equipment	468,617	7.7	26.01	28,155	440,462
Composition board	106,852	.8	3.28	10,071	96,781	Plumbing and gas-fitting equipment	279,651	4.6	15.52	22,426	257,225
Waterproofing materials	55,940	.4	1.77	10,767	45,173	Electrical appliances and supplies	270,238	4.6	15.33	69,852	206,886
Hardware, rough and finished	223,893	1.6	7.07	214,819	8,874	Elevators, dumb-waiters, and equipment	3,415	.1	.19	3,415	
Paints, varnishes, glass	230,642	1.7	7.58	104,440	135,202	Pipe: Drain tile, vitrified, concrete, segment tile, corrugated	176,885	2.0	9.82	157,062	19,233
Roofing and sheet metal	256,831	1.9	8.13	126,339	130,492	Pipe: Cast-iron, sheet and tube steel, etc.	34,847	.6	1.92	12,698	21,940
Finished flooring (other than cement, wood, or tile)	23,190	.2	.74	18,732	4,467	Wire cable, guards, and fencing	21,081	.3	1.17	21,081	
Screens, shades, awnings, etc.	52,438	.4	1.66	27,845	24,593	Bituminous paving materials, tar, asphalt, and oil	148,455	2.4	8.24	148,455	
Heating and ventilating equipment	945,686	6.8	29.92	210,800	734,886	Wood piling and timber	11,500	.2	.64		11,500
Plumbing and gas-fitting equipment	1,204,124	8.7	38.09	238,528	965,596	Ready-mixed concrete	17,738	.3	.98	17,738	
Electrical appliances and supplies	938,470	6.8	29.69	287,993	650,477	Freight, hauling or trucking to job	1,139	(*)	.06	1,139	
Elevators, dumb-waiters and equipment	442,445	3.2	14.00	434,445	8,000	Chemicals and chemical products	1,765	(*)	.10	1,765	
Pipe: Drain tile, vitrified, concrete, segment tile, corrugated	10,412	.1	.33	3,992	6,420	Metal products, n. e. s., (including metal furniture)	6,000	.1	.33	6,000	
Pipe: Cast-iron, sheet and tube steel, etc.	193,064	1.4	6.11	116,164	76,900	Mineral products (nonmetallic)	2,402	(*)	.13	2,402	
Wire cable, guards, and fencing	5,639	(*)	.18	5,639		Miscellaneous	18,857	.3	1.05	17,233	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 construction business.
² Includes operative builders.
³ 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.

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]

Table with multiple columns: KIND OF MATERIAL AND CLASSIFICATION OF ESTABLISHMENTS, COST OF DESIGNATED MATERIAL (Amount, Total cost, Per cent of all distributed materials, Value of construction business), and Indicated per cent of all business done by own force. The table is split into two main sections: MINNESOTA and MINNESOTA—Continued, covering materials like Sand, gravel, stone, slag, cinders, etc.; Cut stone, granite and marble; Cement; Structural steel; and Reinforcing steel.

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

KIND OF MATERIAL AND CLASSIFICATION OF ESTABLISHMENTS	COST OF DESIGNATED MATERIAL				Value of construction business	Indicated per cent of all business done by own force ¹	KIND OF MATERIAL AND CLASSIFICATION OF ESTABLISHMENTS	COST OF DESIGNATED MATERIAL				Value of construction business	Indicated per cent of all business done by own force ¹		
	Cost of all materials distributed by kind	Percent of—						Cost of all materials distributed by kind	Amount	Total cost	Percent of—			Cost of all materials distributed by kind	
		Amount	Total cost	Cost of all distributed materials							Amount				Total cost	Cost of all distributed materials
DULUTH—Continued						DULUTH—Continued									
<i>Lumber, rough and finished²</i>						<i>Heating and ventilating equipment</i>									
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	88.7		
General contractors.....	949,318	388,247	100.0	40.9	2,513,880	87.3	General contractors.....	949,318	1,200	1.5	.1	2,513,880	87.3		
Building.....	168,544	29,697	6.8	15.8	550,905	74.9	Building.....	168,544	1,200	1.5	.7	550,905	74.9		
Building not specialized.....	168,544	29,697	6.8	15.8	550,905	78.8	Building not specialized.....	168,544	1,200	1.5	.7	550,905	78.8		
Street paving.....	44,135	1,050	.3	2.4	109,821	97.7	Subcontractors.....	323,404	81,413	98.5	25.2	823,059	93.9		
Waterworks.....	511,500	360,000	92.7	70.4	1,315,000	90.9	Heating and plumbing.....	211,754	75,384	91.2	35.0	444,899	95.5		
Foundation.....	22,005	600	.2	2.6	88,701	98.9	Heating and piping.....	19,680	19,000	23.0	96.5	38,000	100.0		
Subcontractors.....	323,404	96	(³)	(³)	823,059	93.9	Plumbing.....	114,900	33,384	46.5	33.4	234,554	92.3		
Roofing and sheet-metal work.....	18,624	46	(³)	.2	46,007	92.4	Plumbing and heating combined.....	56,500	18,000	21.8	31.9	102,500	98.0		
Sheet-metal work.....	18,624	46	(³)	.2	46,007	92.4	Roofing and sheet-metal work.....	18,624	6,029	7.3	32.4	46,007	92.4		
Marble and tiling.....	36,080	50	(³)	.1	108,280	99.4	Sheet-metal work.....	18,624	6,029	7.3	32.4	46,007	92.4		
<i>Millwork</i>						<i>Plumbing and gas fitting equipment</i>									
All classes.....	1,272,722	10,089	100.0	1.5	3,336,939	88.7	All classes.....	1,272,722	116,274	100.0	9.1	3,336,939	88.7		
General contractors.....	949,318	19,089	100.0	2.0	2,513,880	87.3	General contractors.....	949,318	800	.7	.1	2,513,880	87.3		
Building.....	168,544	18,989	99.5	11.3	550,905	74.9	Building.....	168,544	800	.7	.5	550,905	74.9		
Building not specialized.....	168,544	18,989	99.5	11.3	550,905	78.8	Building not specialized.....	168,544	800	.7	.5	550,905	78.8		
Street paving.....	44,135	100	.5	.2	109,821	97.7	Subcontractors.....	323,404	114,474	99.3	35.4	823,059	93.9		
<i>Composition board</i>						<i>Sand, gravel, stone, slag, cinders, etc.¹</i>									
All classes.....	1,272,722	20,266	100.0	1.6	3,336,939	88.7	All classes.....	13,831,336	988,088	100.0	7.1	33,119,166	80.8		
General contractors.....	949,318	3,145	15.5	.3	2,513,880	87.3	General contractors.....	8,677,117	958,805	97.0	11.0	22,437,131	73.0		
Building.....	168,544	3,145	15.5	1.9	550,905	74.9	Building.....	5,787,788	402,748	40.8	7.0	15,134,690	67.4		
Building not specialized.....	168,544	3,145	15.5	1.9	550,905	78.8	Building not specialized.....	5,004,632	358,316	36.3	7.2	13,102,863	68.9		
Street paving.....	44,135	100	.5	.2	109,821	97.7	Commercial building only.....	595,140	40,075	4.1	0.7	1,449,474	59.9		
Subcontractors.....	323,404	17,121	84.5	5.3	823,059	93.9	Manufacturing building only.....	21,002	2,200	.2	10.5	62,000	64.5		
Heating and plumbing.....	211,754	16,158	79.7	7.6	444,899	95.5	Residential building only.....	167,014	2,157	.2	1.3	520,363	66.4		
Pipe covering.....	20,774	10,158	79.7	77.8	69,845	100.0	Highway.....	744,445	337,079	34.1	45.3	2,240,000	72.0		
Roofing and sheet-metal work.....	18,624	909	4.5	4.9	46,007	92.4	Bridge and culvert.....	966,235	61,540	6.2	6.4	1,928,155	98.2		
Sheet-metal work.....	18,624	909	4.5	4.9	46,007	92.4	Grading.....	4,253	2,024	.2	47.6	101,238	89.8		
Marble and tiling.....	36,080	55	.3	.2	103,280	99.4	Street paving.....	102,515	27,755	2.8	27.1	346,971	84.1		
<i>Hardware, rough and finished</i>						<i>Brick (face, common, fire, paving, etc.)</i>									
All classes.....	1,272,722	33,000	100.0	2.6	3,336,939	88.7	All classes.....	13,831,336	237,152	100.0	1.7	33,119,166	80.8		
General contractors.....	949,318	32,790	99.2	3.5	2,513,880	87.3	General contractors.....	8,677,117	224,606	94.7	2.6	22,437,131	73.0		
Building.....	168,544	7,590	23.0	4.5	550,905	74.9	Building.....	5,787,788	185,852	78.4	3.2	15,134,690	67.4		
Building not specialized.....	168,544	7,590	23.0	4.5	550,905	78.8	Building not specialized.....	5,004,632	172,792	72.9	3.5	13,102,863	68.9		
Highway.....	202,474	200	.6	.1	458,393	85.2	Commercial building only.....	595,140	7,282	3.1	1.2	1,449,474	59.9		
Waterworks.....	511,500	25,000	75.6	4.9	1,315,000	90.9	Manufacturing building only.....	21,002	2,800	1.2	13.3	62,000	64.5		
Subcontractors.....	323,404	270	.8	.1	823,059	93.9	Residential building only.....	167,014	2,978	1.3	1.8	520,363	66.4		
Roofing and sheet-metal work.....	18,624	235	.7	1.3	46,007	92.4	Highway.....	744,445	4,517	1.0	6.0	2,240,000	72.0		
Sheet-metal work.....	18,624	235	.7	1.3	46,007	92.4	Bridge and culvert.....	966,235	6,137	2.6	6.1	1,928,155	98.2		
Marble and tiling.....	36,080	36	.1	.1	103,280	99.4	Grading.....	4,253	3,100	1.3	1.8	101,238	89.8		
<i>Paints, varnishes, glass</i>						<i>Central station, light and power plant.....</i>									
All classes.....	1,272,722	38,707	100.0	3.0	3,336,939	88.7	Central station, light and power plant.....	200,000	25,000	10.5	12.5	500,000	100.0		
General contractors.....	949,318	500	1.3	.1	2,513,880	87.3									
Waterworks.....	511,500	500	1.3	.1	1,315,000	90.9									
Subcontractors.....	323,404	38,207	98.7	11.8	823,059	93.9									
Painting and decorating.....	24,470	24,470	63.2	100.0	131,455	100.0									
Glass and glazing.....	18,000	18,550	35.0	76.3	49,000	100.0									
Marble and tiling.....	36,080	187	.5	.5	103,280	99.4									
<i>Roofing and sheet metal</i>															
All classes.....	1,272,722	24,625	100.0	1.9	3,336,939	88.7									
General contractors.....	949,318	12,418	50.4	1.3	2,513,880	87.3									
Building.....	168,544	12,418	50.4	7.4	550,905	74.9									
Building not specialized.....	168,544	12,418	50.4	7.4	550,905	78.8									
Subcontractors.....	323,404	12,207	40.6	3.8	823,059	93.9									
Heating and plumbing.....	211,754	1,702	6.9	.8	444,899	95.5									
Pipe covering.....	20,774	1,702	6.9	8.2	69,845	100.0									
Roofing and sheet-metal work.....	18,624	10,505	42.7	56.4	46,007	92.4									
Sheet-metal work.....	18,624	10,505	42.7	56.4	46,007	92.4									

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

KIND OF MATERIAL AND CLASSIFICATION OF ESTABLISHMENTS	Cost of all materials distributed by kind	COST OF DESIGNATED MATERIAL			Value of construction business	Indicated per cent of all business done by own force ¹	KIND OF MATERIAL AND CLASSIFICATION OF ESTABLISHMENTS	Cost of all materials distributed by kind	COST OF DESIGNATED MATERIAL			Value of construction business	Indicated per cent of all business done by own force ¹
		Amount	Per cent of—						Amount	Per cent of—			
			Total cost	Cost of all distributed materials						Total cost	Cost of all distributed materials		
MINNEAPOLIS—Contd.						ST. PAUL—Continued							
<i>Pipe: Cast-iron, sheet and tube steel, etc.</i>						<i>Cut stone, granite and marble</i>							
All classes.....	\$13,831,336	\$198,004	100.0	1.4	\$83,119,166	80.8	All classes.....	\$6,007,985	\$253,106	100.0	4.2	\$16,607,576	83.2
General contractors.....	\$8,028,891	116,164	60.2	1.3	\$22,308,631	73.8	General contractors.....	\$4,544,387	232,872	92.0	5.1	\$12,827,748	81.6
Building.....	\$5,734,562	305	.2	(⁰)	\$15,006,190	67.6	Building.....	\$2,088,291	232,872	92.0	11.2	\$5,010,537	72.0
Building not specialized.....	4,961,406	305	.2	(⁰)	12,974,363	69.1	Building not specialized.....	1,930,053	232,752	92.0	12.0	4,635,480	72.3
Commercial building only.....	744,445	4,092	2.0	.7	2,240,060	72.0	Commercial building only.....	88,643	120	(⁰)	.1	171,575	100.0
Highway.....	966,235	6,117	3.2	.6	1,928,155	98.2	Highway.....	640,102	172,827	21.1	27.0	2,969,897	88.6
Bridge and culvert.....	102,515	4,770	2.5	4.6	346,971	84.1	Bridge and culvert.....	896,864	190,778	23.3	21.3	1,862,562	100.0
Street paving.....	200,000	100,000	51.8	50.0	500,000	100.0	Street paving.....	467,253	178,071	21.8	35.1	1,306,145	99.0
Central station, light and power plant.....							Sewer, gas, water, conduit.....	184,400	57,000	7.0	30.9	532,114	100.0
Subcontractors.....	\$5,154,219	76,900	39.8	1.5	\$10,682,035	98.0	Waterworks.....	170,000	26,000	3.2	15.3	250,000	100.0
Heating and plumbing.....	\$1,802,043	76,900	39.8	4.3	\$3,315,352	99.1	Subcontractors.....	\$1,455,178	38,099	4.7	2.7	\$3,596,428	94.8
Heating and piping.....	551,819	72,400	37.5	13.1	1,020,240	98.8	Plastering and lathing.....	43,780	1,520	.2	3.6	153,340	100.0
Plumbing.....	911,591	4,500	2.3	.5	1,526,781	98.0	Marble and tiling.....	82,325	13,013	1.6	15.8	220,084	98.7
<i>Wood piling and timber</i>						<i>Structural steel</i>							
All classes.....	\$13,831,336	198,192	100.0	1.4	\$83,119,166	80.8	All classes.....	\$6,007,985	524,240	100.0	8.6	\$16,607,576	83.2
General contractors.....	\$8,028,891	198,192	100.0	2.3	\$22,308,631	73.8	General contractors.....	\$4,612,807	507,787	96.9	11.0	\$13,011,148	81.4
Building.....	\$5,734,562	121	.1	(⁰)	\$15,006,190	67.6	Building.....	\$2,156,711	309,698	59.1	14.4	\$5,193,937	71.7
Building not specialized.....	4,961,406	121	.1	(⁰)	12,974,363	69.1	Building not specialized.....	2,007,473	308,600	58.0	15.4	4,818,880	72.0
Commercial building only.....	966,235	1,358	.7	.1	1,928,155	98.2	Commercial building only.....	88,643	907	(⁰)	1.1	171,575	100.0
Dam and reservoir.....	696,249	87,761	44.3	12.0	1,605,000	93.4	Residential building only.....	60,595	125	.2	1.1	203,482	48.3
Railroad.....	175,632	108,952	55.0	62.0	581,017	100.0	Highway.....	640,102	28,000	5.3	4.4	2,999,897	88.6
<i>Machinery</i>						<i>Reinforcing steel</i>							
All classes.....	\$13,831,336	218,201	100.0	1.6	\$83,119,166	80.8	All classes.....	\$6,007,985	424,727	100.0	7.0	\$16,607,576	83.2
General contractors.....	\$8,028,891	218,201	100.0	2.5	\$22,308,631	73.8	General contractors.....	\$4,612,807	423,127	96.6	9.3	\$12,827,748	81.6
Building.....	\$5,734,562	191,537	87.8	3.3	\$5,006,190	67.6	Building.....	\$2,088,291	148,685	35.0	7.1	\$5,010,537	72.0
Building not specialized.....	4,961,406	185,848	85.2	3.8	12,974,363	69.1	Building not specialized.....	2,007,473	119,485	28.1	6.2	4,635,480	72.3
Commercial building only.....	595,140	5,689	2.0	1.0	1,449,474	59.9	Commercial building only.....	88,643	29,200	6.0	3.9	171,575	100.0
Dam and reservoir.....	696,249	26,664	12.2	3.8	1,605,000	93.4	Residential building only.....	60,595	64,699	15.2	10.1	2,969,897	88.6
ST. PAUL						<i>Lumber, rough and finished</i>							
<i>Sand, gravel, stone, slag, cinders, etc.²</i>						All classes.....							
All classes.....	\$6,007,985	754,718	100.0	12.4	\$16,607,576	83.2	All classes.....	\$6,007,985	480,171	100.0	7.9	\$16,607,576	83.2
General contractors.....	\$4,612,807	735,044	97.4	15.9	\$13,011,148	81.4	General contractors.....	\$4,612,807	478,181	99.6	10.4	\$13,011,148	81.4
Building.....	\$2,156,711	148,060	19.7	6.9	\$5,193,937	71.7	Building.....	\$2,156,711	232,733	53.9	13.1	\$5,193,937	71.7
Building not specialized.....	2,007,473	137,501	18.2	6.8	4,818,880	72.0	Building not specialized.....	2,007,473	236,681	53.9	11.8	4,818,880	72.0
Commercial building only.....	88,643	11,159	1.5	12.0	171,575	100.0	Commercial building only.....	88,643	10,816	2.3	12.2	171,575	100.0
Highway.....	640,102	198,130	28.3	31.0	2,969,897	88.6	Residential building only.....	60,595	35,236	7.3	58.2	203,482	48.3
Bridge and culvert.....	896,864	138,047	17.0	14.8	1,862,562	100.0	Highway.....	640,102	33,236	6.9	5.2	2,969,897	88.6
Grading.....	79,197	66,739	8.8	84.3	871,013	57.3	Bridge and culvert.....	896,864	137,030	22.3	15.3	1,862,562	100.0
Street paving.....	467,253	152,468	20.2	32.6	1,306,145	99.0	Grading.....	79,197	10,693	2.5	13.5	871,013	57.3
Sewer, gas, water, conduit.....	184,400	36,000	4.8	19.5	532,114	100.0	Street paving.....	467,253	45,020	10.6	9.6	1,306,145	99.0
Subcontractors.....	\$1,455,178	19,674	2.6	1.4	\$3,596,428	94.8	Sewer, gas, water, conduit.....	184,400	17,000	4.0	0.2	532,114	100.0
Heating and plumbing.....	\$663,203	185	(⁰)	(⁰)	\$1,217,439	95.0	Subcontractors.....	\$1,455,178	1,600	.4	1.1	\$3,596,428	94.8
Heating and piping.....	422,196	185	(⁰)	(⁰)	740,256	94.6	Excavating.....	62,007	1,600	.4	2.6	555,204	82.1
Plastering and lathing.....	43,780	2,414	.3	5.5	153,340	98.7	<i>Brick (face, common, fire, paving, etc.)</i>						
Roofing and sheet-metal work.....	\$244,967	170	(⁰)	.1	\$554,573	100.0	All classes.....	\$6,007,985	218,169	100.0	3.6	\$16,607,576	83.2
Roofing.....	78,625	170	(⁰)	.2	195,040	100.0	General contractors.....	\$4,612,807	208,855	95.7	4.5	\$13,011,148	81.4
Marble and tiling.....	82,325	12,481	1.7	15.2	220,084	100.0	Building.....	\$2,156,711	184,722	61.8	6.2	\$5,193,937	71.7
Excavating.....	62,007	4,424	.6	7.1	555,204	82.1	Building not specialized.....	2,007,473	131,492	60.3	6.6	4,818,880	72.0
<i>Brick (face, common, fire, paving, etc.)</i>						Commercial building only.....							
All classes.....	\$6,007,985	218,169	100.0	3.6	\$16,607,576	83.2	Commercial building only.....	88,643	3,230	1.6	3.6	171,575	100.0
General contractors.....	\$4,612,807	208,855	95.7	4.5	\$13,011,148	81.4	Highway.....	640,102	33,594	15.4	5.2	2,969,897	88.6
Building.....	\$2,156,711	184,722	61.8	6.2	\$5,193,937	71.7	Street paving.....	467,253	25,539	11.7	5.5	1,306,145	99.0
Building not specialized.....	2,007,473	131,492	60.3	6.6	4,818,880	72.0	Waterworks.....	170,000	15,000	6.9	8.8	250,000	100.0
Commercial building only.....	88,643	3,230	1.6	3.6	171,575	100.0	Subcontractors.....	\$1,455,178	9,314	4.3	1.6	\$3,596,428	94.8
Highway.....	640,102	33,594	15.4	5.2	2,969,897	88.6	Heating and plumbing.....	\$663,203	8,814	4.0	1.3	\$1,217,439	95.0
Street paving.....	467,253	25,539	11.7	5.5	1,306,145	99.0	Heating and piping.....	422,196	8,814	4.0	2.1	740,256	94.6
Waterworks.....	170,000	15,000	6.9	8.8	250,000	100.0	Plastering and lathing.....	43,780	800	.2	1.1	153,340	98.7

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

KIND OF MATERIAL AND CLASSIFICATION OF ESTABLISHMENTS	COST OF DESIGNATED MATERIAL				Value of construction business	Indicated per cent of all business done by owner ¹	KIND OF MATERIAL AND CLASSIFICATION OF ESTABLISHMENTS	COST OF DESIGNATED MATERIAL				Value of construction business	Indicated per cent of all business done by owner ¹	
	Cost of all materials distributed by kind	Amount	Per cent of—					Amount	Cost of all materials distributed by kind	Amount	Per cent of—			
			Total cost	Cost of all distributed materials							Total cost			Cost of all distributed materials
ST. PAUL—Continued						ST. PAUL—Continued								
<i>Lumber, rough and finished—Continued</i>						<i>Plumbing and gas fitting equipment</i>								
Subcontractors.....	\$1,455,178	\$1,900	0.4	0.1	\$3,596,428	94.8	All classes.....	\$0,067,985	\$270,651	100.0	4.6	\$16,607,576	83.2	
Heating and plumbing.....	663,203	150	(0)	(0)	1,217,439	95.0	General contractors.....	4,544,387	22,420	8.0	.5	12,827,748	81.6	
Heating and piping.....	422,196	150	(0)	(0)	740,256	94.6	Building.....	2,088,291	19,826	7.1	.0	5,010,537	72.0	
Marble and tiling.....	82,325	306	.1	.4	220,084	100.0	Building not specialized.....	1,939,053	19,826	7.1	1.0	4,635,480	72.3	
Excavating.....	62,007	1,534	.3	2.5	555,204	82.1	Highway.....	640,102	2,600	.9	.4	2,969,897	88.6	
<i>Millwork</i>						<i>Electrical appliances and supplies</i>								
All classes.....	\$6,067,985	189,625	100.0	3.1	\$16,607,576	83.2	All classes.....	\$6,067,985	276,238	100.0	4.6	\$16,607,576	83.2	
General contractors ²	4,612,807	189,625	100.0	4.1	\$13,011,148	81.4	General contractors.....	4,544,387	69,352	25.1	1.5	\$12,827,748	81.6	
Building.....	2,156,711	185,125	97.6	8.6	5,193,937	71.7	Building.....	2,088,291	11,687	4.2	.6	5,010,537	72.0	
Building not specialized ³	2,007,473	160,950	88.0	8.3	4,818,880	72.0	Building not specialized.....	1,939,053	10,204	3.7	.5	4,635,480	72.3	
Commercial building only.....	88,643	500	.3	.6	171,575	100.0	Residential building only.....	60,595	1,488	.5	2.4	203,482	48.3	
Residential building only.....	60,595	17,075	9.3	20.2	203,482	48.3	Highway.....	640,102	1,300	.5	.2	2,969,897	88.6	
Highway.....	640,102	4,500	2.4	.7	2,969,897	88.6	Bridge and culvert.....	896,864	48,995	17.7	5.5	1,862,562	100.0	
<i>Roofing and sheet metal</i>						<i>Electrical</i>								
All classes.....	6,067,985	290,552	100.0	4.9	16,607,576	83.2	All classes.....	7,067,985	276,238	100.0	4.6	16,607,576	83.2	
General contractors ²	4,612,807	48,705	16.3	1.1	\$13,011,148	81.4	General contractors.....	4,544,387	69,352	25.1	1.5	\$12,827,748	81.6	
Building.....	2,156,711	30,705	12.3	1.7	5,193,937	71.7	Building.....	2,088,291	11,687	4.2	.6	5,010,537	72.0	
Building not specialized ³	2,007,473	30,334	12.1	1.8	4,818,880	72.0	Building not specialized.....	1,939,053	10,204	3.7	.5	4,635,480	72.3	
Residential building only.....	60,595	371	.1	.6	203,482	48.3	Residential building only.....	60,595	1,488	.5	2.4	203,482	48.3	
Highway.....	640,102	12,000	4.0	1.9	2,969,897	88.6	Highway.....	640,102	1,300	.5	.2	2,969,897	88.6	
Subcontractors.....	1,455,178	250,847	83.7	17.2	\$3,596,428	94.8	Bridge and culvert.....	896,864	48,995	17.7	5.5	1,862,562	100.0	
Heating and plumbing.....	663,203	8,150	2.7	1.2	1,217,439	95.0	Sewer, gas, water, conduit.....	184,400	7,400	2.7	4.0	532,114	100.0	
Heating and piping.....	422,196	8,150	2.7	1.9	740,256	94.6	Subcontractors.....	1,455,178	206,880	74.9	14.2	\$3,596,428	94.8	
Roofing and sheet-metal work.....	244,967	242,697	81.0	99.1	554,573	100.0	Electrical.....	288,386	200,886	74.9	71.7	547,932	100.0	
Roofing.....	78,625	70,355	25.5	97.1	195,046	100.0	Pipe: Drain tile, vitrified, concrete, segment tile, corrugated							
Sheet-metal work.....	90,301	90,301	30.1	100.0	202,240	100.0	All classes.....	7,067,985	176,855	100.0	2.0	\$16,607,576	83.2	
Roofing and sheet metal combined.....	76,041	76,041	25.4	100.0	187,287	100.0	General contractors.....	4,544,387	157,052	89.1	3.5	\$12,827,748	81.6	
<i>Heating and ventilating equipment</i>						<i>Bituminous paving materials, tar, asphalt, and oil</i>								
All classes.....	7,067,985	468,617	100.0	7.7	\$16,607,576	83.2	All classes.....	7,067,985	148,455	100.0	2.4	\$16,607,576	83.2	
General contractors.....	4,544,387	28,155	6.0	.6	\$12,827,748	81.6	General contractors.....	4,544,387	148,455	100.0	3.3	\$12,827,748	81.6	
Building.....	2,088,291	26,505	5.7	1.3	5,010,537	72.0	Building.....	2,088,291	2,000	1.8	.1	5,010,537	72.0	
Building not specialized.....	1,939,053	26,505	5.7	1.4	4,635,480	72.3	Building not specialized.....	1,939,053	2,000	1.3	.1	4,635,480	72.3	
Highway.....	640,102	1,150	.2	.2	2,969,897	88.6	Highway.....	640,102	49,450	33.3	7.7	2,969,897	88.6	
Sewer, gas, water, conduit.....	184,400	600	.1	.3	532,114	100.0	Bridge and culvert.....	896,864	64,552	43.5	7.2	1,862,562	100.0	
Subcontractors.....	1,455,178	440,462	94.0	30.3	\$3,596,428	94.8	Street paving.....	487,253	32,453	21.9	6.9	1,306,145	99.0	
Electrical.....	288,386	75,000	16.0	26.0	547,932	100.0								
Heating and plumbing.....	663,203	364,662	77.8	55.0	1,217,439	95.0								
Heating and piping.....	422,196	279,685	59.7	66.2	740,256	94.6								
Pipe covering.....	20,381	20,381	4.3	100.0	53,456	100.0								
Plumbing.....	204,626	57,596	12.3	28.1	396,727	96.6								
Plumbing and heating combined.....	16,000	7,000	1.5	43.8	27,000	93.2								
Roofing and sheet-metal work.....	244,967	800	.2	.3	554,573	100.0								
Roofing.....	78,625	800	.2	1.0	195,046	100.0								

¹ Based upon the difference between the total value of all construction business reported and the value of subcontract work let.
² See footnote 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.
⁵ Includes construction work reported by establishments which did not include the designated material in their distributed lists.
⁶ 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 construction work reported by operative builders who did not include the designated material in their distributed lists.
⁹ Includes cost of materials 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.

CONSTRUCTION—MINNESOTA

665

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

CLASSIFICATION OF ESTABLISHMENTS	Total cost of all materials †	COST OF ALL MATERIAL DISTRIBUTED BY KIND		Sand, gravel, crushed stone, slag, cinders, etc.	Brick (face, common, fire, paving, etc.)	Tile (fire proofing)	Tile, facing, terra cotta, floor, and wall	Concrete and cinder block	Cut stone, granite and marble	Riprap, rubble, etc.	Cement	Lime	Plaster, etc.	Structural steel
		Amount	Per cent of total											
MINNEAPOLIS—Contd.														
General contractors—Contd.														
Highway	\$932,403	\$744,445	79.8	\$337,079	\$4,517			\$280	\$2,150		\$225,174	\$2,016	\$2	\$17,266
Bridge and culvert	1,016,235	966,235	95.1	61,540	6,137	\$339	\$1,630	789	177	\$442	87,244	144	2,812	540,138
Grading	4,253	4,253	100.0	2,024										
Street paving	102,515	102,515	100.0	27,755							49,813			
Dam and reservoir	696,249	696,249	100.0	111,359						160	169,855	59		43,257
Railroad	175,632	175,632	100.0	15,800	3,100					3,500	19,000			21,000
Central station, light and power plant	200,000	200,000	100.0		25,000						15,000			
Subcontractors														
Concreting	99,621	44,143	44.3	8,475	3,540	35,400	209,924	7,435	182,546	355	18,742	1,786	72,270	224,752
Electrical	651,447	629,057	96.6											
Heating and plumbing	2,104,143	1,802,043	85.6	260	3,010	400					170	1,250		140
Heating and piping	616,890	551,819	89.5	250	3,000	400						1,250		
Pipe covering	30,120	30,120	100.0											
Plumbing	980,249	911,591	93.0	10	10						170			140
Plumbing and heating combined	409,809	241,438	58.9											
Automatic temperature control	58,075	58,075	100.0											
Masonry	93,896	50,806	54.2	3,452	4,044	35,000					6,300	1,500		
Painting and decorating	129,784	129,784	100.0											
Plastering and lathing	245,032	206,446	84.3	5,090							5,000	2,563	71,787	
Roofing and sheet-metal work	207,233	172,835	84.7											
Roofing	239,233	144,835	60.5											
Sheet-metal work	23,000	23,000	100.0											
Steel erection	35,640	35,640	100.0	473	1,352								483	25,461
Marble and tiling	456,175	456,175	100.0	9,293			209,924		182,386		47,655	2,489		
Excavating	1,500	1,500	100.0											
Ornamental iron	1,287,312	1,287,312	100.0											197,000
Soundproofing	107,645	107,645	100.0	300							1,375			
Metal work, n. e. s.	217,443	217,443	100.0											2,151
Flooring, n. e. s.	43,300	13,300	30.7	1,540							11,780			
ST. PAUL														
Operative builders	68,420	68,420	100.0	1,500	6,500		2,700	1,000			900			2,800
General contractors														
Building	8,106,473	4,544,387	56.1	733,544	202,355	54,916	32,640	52,646	232,872	798	777,879	21,569	22,202	504,877
Building not specialized	2,543,412	2,088,291	82.1	147,160	123,222	54,916	32,640	25,980	232,872		153,203	17,946	22,202	306,838
Commercial building only	107,346	88,643	82.6	130,001	124,992	61,676	28,640	26,920	232,752		132,710	14,998	22,202	306,746
Residential building only	97,895	69,595	71.9	11,159	3,230	3,000	4,000	60	120		20,493	2,848		967
Highway	651,459	640,102	98.3	198,130	33,594					798	172,827			28,000
Bridge and culvert	1,478,894	896,894	60.7	133,047							190,778			169,500
Grading	79,197	79,197	100.0	69,739										
Street paving	467,263	467,263	100.0	152,468	25,539			18,668			178,071	4,223		599
Sewer, gas, water, conduit	247,830	184,400	74.4	36,000				8,000			57,000			
Waterworks	170,000	170,000	100.0								26,000			
Central station, light and power plant	108,280	18,280	16.9											
Subcontractors														
Electrical	1,013,577	1,455,178	76.0	19,674	9,314		24,842	3,046	20,234	2,250	38,699	3,800	19,281	16,503
Heating and plumbing	313,886	288,386	92.0											
Heating and piping	1,074,602	693,203	64.5	185	8,814							350	15	16,503
Pipe covering	515,146	422,196	82.0	185	8,814							350		16,503
Plumbing	20,381	20,381	100.0											
Plumbing and heating combined	310,020	204,626	65.9											15
Painting and decorating	228,449	16,000	7.0											
Plastering and lathing	69,010	59,010	85.6											
Roofing and sheet-metal work	43,780	43,780	100.0	2,414	500						1,520	3,450	19,266	
Roofing	250,967	244,967	97.6	170										
Sheet-metal work	78,625	78,625	100.0	170										
Roofing and sheet metal work combined	90,301	90,301	100.0											
Marble and tiling	88,041	76,041	86.4											
Excavating	82,325	82,325	100.0	12,481			24,842	3,046	20,234		13,013			
Foundation	62,007	62,007	100.0	4,424						2,250	24,166			
Foundation	11,500	11,500	100.0											

See footnotes at end of table.

CONSTRUCTION—MINNESOTA

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

[See note at head of this table]

Table with columns for Classification of Establishments and various materials including Reinforcing steel, Cast iron, Metal doors, Metal and wire lath, Ornamental metal work, Lumber, Laths, Mill-work, Composition board, Water-proofing, Hard-ware, Paints, Roofing, and Finished flooring. Sub-tables are provided for ST. PAUL, MINNESOTA, and DULUTH.

See footnotes at end of table.

CONSTRUCTION—MINNESOTA

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

[See note at head of this table]

CLASSIFICATION OF ESTABLISHMENTS	Screens, shades, awnings, etc.	Heating and ventilating equipment	Plumbing and gas fitting equipment	Electrical appliances and supplies	Elevators, dumb-waiters, etc.	Pipe: Drain tile, vitrified, concrete, etc.	Pipe: Cast iron, sheet and tube steel, etc.	Wire cable, guards, and fencing	Bituminous paving materials	Wood piling and timber	Ready-mixed concrete	Machinery	Freight, hauling, or trucking to job	Metal products, n. e. s.	Miscellaneous ¹
DULUTH—Continued.															
Subcontractors.....		\$81,413	\$114,474			\$150								\$4,882	\$845
Heating and plumbing.....		75,884	114,416			150									
Heating and piping.....		19,000													
Plumbing.....		38,384	70,416												
Plumbing and heating combined.....		18,000	38,000			150								3,000	
Glass and glazing.....															
Sheet-metal work.....		0,020	58											1,882	845
Marble and tiling.....															
MINNEAPOLIS.....	\$52,438	945,686	1,204,124	\$938,470	\$442,445	10,412	\$193,064	\$5,839	\$11,254	\$198,192	\$2,624	\$218,201	\$15,827	189,470	103,447
Operative builders.....	300	3,000	4,000	3,493											1,400
General contractors.....	27,545	207,800	234,528	284,500	434,445	3,992	116,164	5,639	7,970	198,192	1,638	218,201	10,308	135,051	100,285
Building.....	7,545	207,800	208,149	272,050	434,445	301	305	688	516	121		191,537	10,308		15,521
Building not specialized.....	7,040	205,300	205,632	264,762	305,469	301	305	688	516	121		185,848	8,798		15,156
Commercial building only.....	369			6,242	128,076							5,689	1,500		225
Residential building only.....	136	2,500	2,517	1,055									10		140
Highway.....			85				4,992	4,500				1,638			889
Bridge and culvert.....			294	1,694		1,838	6,117	75	4,754	1,858					74,875
Grading.....						1,853		376							
Street paving.....							4,750		2,700						
Dam and reservoir.....				5,747						87,761		26,664		135,651	
Railroad.....										108,952					
Central station, light and power plant.....	20,000		26,000	5,000			100,000								9,000
Subcontractors.....	24,593	784,886	965,506	650,477	8,000	6,420	76,900		3,284		986		5,519	33,819	1,762
Concreting.....				629,057					100						
Electrical.....				21,400		6,420	70,900								
Heating and plumbing.....		720,454	965,506												
Heating and piping.....		337,937	125,670	9,500			72,400								
Pipe covering.....		37,069													
Plumbing.....		174,604	716,357	11,900		1,420	4,500								
Plumbing and heating combined.....		112,869	123,569			5,000									
Automatic temperature control.....		58,075													
Roofing and sheet-metal work.....		11,000													
Roofing.....		1,000													
Sheet-metal work.....		10,000										986			
Steel erection.....				20									5,519	8	338
Marble and tiling.....									3,184						450
Soundproofing.....					8,000									33,811	974
Metal work, n. e. s.....	24,593	3,432												6,000	23,024
ST. PAUL.....	2,037	468,617	270,661	276,238	3,415	176,885	34,847	21,081	148,455	11,500	17,738		1,139	6,000	21,400
General contractors.....	2,037	28,155	22,426	60,352	3,415	157,652	12,698	21,081	148,455		17,738		1,139	6,000	21,400
Building.....	1,987	26,505	19,826	11,687	3,415	406	3,216	512	2,000		17,738		1,139		9,635
Building not specialized.....	1,747	20,505	19,826	10,204	3,415	406	3,216	512	2,000		17,738		1,139		9,635
Residential building only.....	240			1,483											
Highway.....	60	1,150	2,000	48,965		21,240	560	5,789	40,460						
Bridge and culvert.....									64,552						1,765
Grading.....															
Street paving.....								3,422	32,453						
Sewer, gas, water, conduit.....		500		7,400		11,000	5,500	1,000						6,000	10,000
Waterworks.....						125,000									
Central station, light and power plant.....								13,780							
Subcontractors.....		440,462	257,225	206,886		19,233	21,049			11,500					1,624
Electrical.....		75,000	6,000	206,886											500
Heating and plumbing.....		394,662	251,225			3,300	9,849								
Heating and piping.....		279,685	99,210			300	8,849								
Pipe covering.....		20,381				3,000	1,000								
Plumbing.....		57,596	143,015												
Plumbing and heating combined.....		7,000	9,000												
Roofing and sheet-metal work.....		800													
Roofing.....		800													1,124
Marble and tiling.....						15,933	12,100								
Excavating.....									11,500						
Foundation.....															

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.

² See footnote 5 of Table 9 on p. 655.
³ Highway, \$413,456.
⁴ Sewer, 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 Railroad, \$2,362,178.
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.

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

TYPE OF WORK	MINNESOTA 1930 population, 2,563,953										DULUTH 1930 population, 101,463		MINNEAPOLIS 1930 population, 464,356		ST. PAUL 1930 population, 271,606		REMAINDER OF STATE 1930 population, 1,726,528		
	Known contracting establishments			Volume of business reported							Volume of business		Volume of business		Volume of business		Volume of business		
	Total number	In-active in 1929	Active in 1929	Number of reporting establishments	Per cent of active	Amount	Average per establishment	Total number active in 1929	Amount	Number of reporting establishments	Amount	Total number active in 1929	Amount	Number of reporting establishments	Amount	Total number active in 1929	Amount	Number of reporting establishments	Amount
Total establishments canvassed (less than \$25,000).....	1,963	156	1,907								428	\$134,078	32	\$402,445	1,135		237	\$1,968,540	
Total establishments, type of work unknown.....	148	2	146	10	6.8	\$56,098	\$5,610	13	\$18,000	1	\$18,000	89		1	43		9	\$38,098	
Total general contractors and subcontractors classified.....	1,815	54	1,761	100.00				35			339		285		1,092				
Total general contractors classified.....	600	40	560	31.8	50.7	2,548,438	8,973	21	43,375	85	134,078	93	32	402,445	361		237	1,968,540	
Building.....	455	32	423	24.0	57.2	2,162,859	8,937	17	40,925	76	134,078	78	28	337,020	252		200	1,650,836	
Highway.....	98	6	92	5.2	25	253,035	10,121	3		7		11	2	83,000	71		23	220,035	
Bridge and culvert.....	12	1	11	.6	54.5	51,629	8,605	2		2					11		6	51,629	
Street paving.....	2	1	1	.1															
Sewer, gas, water, conduit.....	23	1	22	1.3	31.8	45,040	6,434	1	2,450	1		1			21		7	45,040	
Dam and reservoir.....	3	3		2.2	50.0	14,658	7,329	1		1		1			3		1	1,000	
Foundation.....	4	4		2.2	33.3	18,767	18,767	1		1		1			2		1	1,000	
Railroads.....	3	3		2.2	34.1	2,768,221	6,768	14	33,416	254	598,376	202	55	554,133	731		297	1,582,046	
Total subcontractors classified.....	1,215	14	1,201	68.2	50.0	269,170	3,845	70	58,000	10	78,467	15	4	11,126	123		66	238,044	
Carpentering.....	142	2	140	3.8	58.7	275,756	7,860	1		2		2			2		55	30	197,239
Concrete.....	68	1	67	3.3	24.0	242,069	7,809	1		11		19	2	71,577	98		26	170,392	
Electrical.....	130	1	129	7.3															
Elevator.....	2	2		.1															
Heating, ventilating, and piping.....	61	61		3.5	34.4	162,784	7,752	21		4		4	2	29,695	17		4	27,554	
Masonry.....	43	2	41	2.3	22.0	39,740	4,416	9		2		2	2	31,350	1		7	8,390	
Painting and decorating.....	213	3	210	11.9	36.7	332,052	4,312	2	5,000	18		11	4	54,369	51		13	105,506	
Glass.....	5	1	4	.2	25.0	5,000	5,000	1		1		1			1		1	5,000	
Pipe covering.....	1	1		.1															
Plastering.....	166	1	165	9.4	28.5	275,875	5,870	47		24	188,605	7	2	14,000	41		21	73,270	
Plumbing and heating.....	304	3	301	17.1	92	909,090	9,831	7	28,416	72	204,884	56	14	164,920	166		62	510,870	
Sheet metal and roofing.....	51	51		2.9	31.4	184,365	11,523	1		1		25	10	117,765	23		6	66,600	
Stone.....	3	3		.1	33.3	13,000	13,000	1		1		1			2		1	13,000	
Marble and tiling.....	8	8		.5	50.0	24,764	6,191	1		1		2	1	5,264	3		2	18,000	
Wrecking.....	2	2		.1															
Excavating and grading.....	10	10		.6	30.0	28,614	9,538	3		1		1	1	5,942	2		1	23,635	
Ornamental iron.....	6	6		.3	16.7	5,942	5,942	1		1		3	1		2		2	4,979	

1 Of the total inactive contractors, 1 is in Duluth, 2 are in Minneapolis, 4 in St. Paul, and 49 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	MINNESOTA										
	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 \$24,999	\$25,000 to \$24,999
Total general contractors and subcontractors.....	703	188	119	95	79	70	34	36	31	30	21
General contractors.....	284	51	44	41	39	32	14	21	14	18	10
Subcontractors.....	409	132	74	52	40	38	20	15	15	12	11
Type of contracting unknown.....	10	5	1	2					2		

MISSISSIPPI

CONTENTS

	Page
MAP	672
TABLE 1.—Value of construction business during 1929, and principal items of expenditure.....	673
TABLE 2.—Construction business of reporting establishments during 1929, by class of ownership and by type of work.....	674
TABLE 3.—Construction business during 1929, by location.....	674
TABLE 4.—Construction business outside home State, by location.....	674
TABLE 5.—Number and salaries of proprietors, firm members, and salaried employees: 1929.....	674
TABLE 6.—Value of construction equipment, in comparison with construction business and wages paid during 1929.....	675
TABLE 7.—Wage earners, by months, and wages paid during 1929.....	675
TABLE 8.—Expenditures of reporting establishments: 1929.....	676
TABLE 9.—Cost of materials furnished and used by reporting establishments during 1929, by kind.....	676
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.....	677
TABLE 11.—Cost of materials furnished and used by reporting establishments during 1929.....	678
TABLE 12.—Number of, and volume of business reported by establishments doing a construction business of less than \$25,000 in 1929, percentage of total number of known establishments, and average volume per establishment.....	679
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.....	679

MISSISSIPPI



CONSTRUCTION—MISSISSIPPI

673

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

[Values expressed in thousands]

AREA, CLASSIFICATION OF ESTABLISHMENTS, AND SIZE OF BUSINESS GROUPS	Number of establishments	VALUE OF CONSTRUCTION BUSINESS			PRINCIPAL EXPENDITURES			AREA, CLASSIFICATION OF ESTABLISHMENTS, AND SIZE OF BUSINESS GROUPS	Number of establishments	VALUE OF CONSTRUCTION BUSINESS			PRINCIPAL EXPENDITURES		
		Total	Under general contract or directly for owner	Under sub-contract	Sub-contract work let	Wages paid	Cost of materials			Total	Under general contract or directly for owner	Under sub-contract	Sub-contract work let	Wages paid	Cost of materials
MISSISSIPPI	95	\$12,948	\$10,953	\$1,995	\$2,075	\$2,918	\$5,177	MISSISSIPPI—Continued.							
Counties:							Size of business groups								
Coahoma	4	378	370	8	5	80	180	General contractors	66	\$10,600	\$10,438	\$101	\$2,075	\$2,341	\$4,055
Forrest	1	424	397	267	43	209	424	\$25,000 to \$49,999	15	632	632		107	169	218
Harrison	0	1,424	807	527	277	505	277	\$50,000 to \$99,999	20	1,377	1,323	54	205	374	438
Itasca	20	4,304	3,931	373	644	893	1,808	\$100,000 to \$199,999	14	2,027	2,027		198	470	870
Jones	3	342	314	23	290	20	90	\$200,000 to \$499,999	14	4,575	4,517	58	938	930	1,856
Lauderdale	12	1,494	1,270	224	158	392	696	\$500,000 to \$999,999	3	1,988	1,939	49	332	398	614
Lee	3	286	224	92	45	64	100	\$1,000,000 and over							
LeFlore	3	427	322	105	28	91	205	Building contractors	40	6,308	6,308		1,282	1,445	2,711
Lowndes	4	325	200	68	28	77	130	\$25,000 to \$49,999	9	400	400		93	86	170
Madison	5	567	408	159	30	161	283	\$50,000 to \$99,999	12	825	825		166	193	362
Other counties ¹	23	2,500	2,320	180	607	581	646	\$100,000 to \$199,999	9	1,251	1,251		84	319	620
Classification of establishments							Subcontractors								
General contractors	66	10,600	10,438	161	2,075	2,341	4,055	\$200,000 to \$499,999	8	2,402	2,402		421	583	1,050
Building	40	6,308	6,308		1,282	1,445	2,711	\$500,000 to \$999,999	2	1,430	1,430		528	263	500
Building not specialized	36	6,091	6,091		1,223	1,391	2,632	\$1,000,000 and over							
Residential building only	4	217	217		60	54	79	Subcontractors	20	2,348	515	1,834		577	1,121
Highway	11	2,307	2,140	161	327	518	682	\$25,000 to \$49,999	13	480	103	324		104	213
Bridge and culvert	5	1,142	1,142		440	193	358	\$50,000 to \$99,999	8	589	131	458		161	277
Street paving	5	608	608		26	141	245	\$100,000 to \$199,999	6	808	278	530		170	396
Other classes ²	5	234	234			73	50	\$200,000 to \$499,999	2	521		521		142	235
Subcontractors	29	2,348	515	1,834		577	1,121	\$500,000 to \$999,999							
Electrical	9	579	312	267		135	307	\$1,000,000 and over							
Heating and plumbing	15	1,392	203	1,189		357	650								
Plumbing	12	1,185	120	1,065		320	544								
Plumbing and heating combined	3	207	83	124		37	106								
Roofing and sheet-metal work	5	377		377		85	165								

¹ Includes Adams, Alcorn, Bolivar, Clay, De 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.
² Includes grading; sewer, gas, water, conduit; and levees.

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

CLASS OF OWNERSHIP AND TYPE OF CONSTRUCTION WORK	CONSTRUCTION BUSINESS REPORTED BY—						CLASS OF OWNERSHIP AND TYPE OF CONSTRUCTION WORK	CONSTRUCTION BUSINESS REPORTED BY—					
	All classes of establishments		General contractors		Subcontractors			All classes of establishments		General contractors		Subcontractors	
	Number reporting	Value	Number reporting	Value	Number reporting	Value		Number reporting	Value	Number reporting	Value	Number reporting	Value
MISSISSIPPI	95	\$12,947,666	66	\$10,599,519	29	\$2,348,147	MISSISSIPPI—Continued						
All construction business	17	1,378,609	6	463,934	11	914,675	All business under general contract or directly for owners—Contd.						
Distribution not reported							Distributed by class—Continued.						
Distributed by class of ownership	78	11,669,057	60	10,135,585	18	1,433,472	Public works and utilities	12	\$1,377,654	12	\$1,377,654		
Private	54	3,003,462	36	2,056,400	18	947,062	Bridge, tunnel, etc.	10	1,241,015	10	1,241,015		
Quasi public or community	20	568,029	15	558,069	5	9,960	Dock, pier, retaining wall, etc.	1		1			
Public	55	7,997,566	45	6,021,110	10	476,450	Flood control, irrigation, and land drainage	1	136,639	1	136,639		
Distribution not reported	2	78,918	2	78,918			Sewage disposal and drainage	1		1			
Distributed by class of public ownership	53	7,318,648	43	6,842,198	10	476,450	Water supply	1		1			
Federal	1	5,120,055	1	4,813,455			Highway and street	18	2,833,492	18	2,833,492		
State	28		24		4	312,600	Miscellaneous	2		2			
County or township	22	1,075,275	18	1,039,075	4	36,200	All business under subcontract	28	1,994,972	4	161,460	24	\$1,833,512
Municipal	24	1,117,818	17	989,608	7	127,650	Distribution not reported	1	250,692			1	250,692
All business under general contract or directly for owners	76	10,952,694	67	10,438,059	9	514,635	Distributed by class	27	1,744,280	4	161,460	23	1,582,820
Distribution not reported	4	103,341	3	96,341	1	67,000	Electrical	8	295,413			8	295,413
Distributed by class	72	10,789,353	64	10,341,718	8	447,635	Heating and plumbing	7	852,648			7	852,648
Building	49	6,578,207	40	6,130,572	9	447,635	Heating and piping	1	183,517			1	183,517
Distribution not reported	3	203,088	2	120,000	1	83,088	Pipe covering	1				1	
Distributed by class	46	6,375,119	38	6,010,572	8	364,547	Plumbing	11	424,490			11	424,490
Commercial	32	1,490,912	28	1,451,814	4	45,098	Plumbing and heating combined	3	244,639			3	244,639
Educational	25	2,825,122	23	()	2	()	Roofing and sheet-metal work	3	434,761			3	434,761
Hotel	7	65,144	4	50,444	3	12,700	Roofing	5	187,000			5	187,000
Hospital and institutional	7	196,722	4	194,172	3	2,550	Sheet-metal work	6	247,761			6	247,761
Manufacturing	8	170,802	6	()	2	()	Roofing and sheet metal combined	1				1	
Public—Courts, jails, etc.	5	42,871	4	()	1	()	Excavating	1		1		1	
Residential	28	1,002,235	22	925,378	6	76,857	Highway	1		1		1	
Religious and memorial	12	421,716	2	451,819	2	119,492	Bridge and culvert	1	161,460	1	161,460		
Social and recreational	2		2				Rental of equipment, trucking, etc.	2		2			
Miscellaneous	10	149,595	4		6								

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

CONSTRUCTION—MISSISSIPPI

TABLE 3.—CONSTRUCTION BUSINESS DURING 1929, BY LOCATION

CLASSIFICATION OF ESTABLISHMENTS	Establishments reporting	Total	In home city	In home State	Outside home State	CLASSIFICATION OF ESTABLISHMENTS	Establishments reporting	Total	In home city	In home State	Outside home State
General contractors	61	9,165,045	2,139,049	7,794,681	1,430,964	Subcontractors	28	\$2,208,897	\$1,377,544	\$2,112,397	\$96,500
Building	36	4,001,092	1,730,794	4,839,496	62,496	Electrical	9	579,303	332,823	634,803	14,600
Building not specialized	32	4,685,243	1,530,545	4,029,247	55,996	Heating and plumbing	14	1,252,790	826,305	1,202,790	50,000
Residential building only	4	210,749	210,240	210,249	6,500	Plumbing	11	1,045,554	641,069	1,000,554	45,000
Highway	11	2,307,466	15,024	1,330,581	976,885	Plumbing and heating combined	3	207,236	184,636	202,236	5,000
Bridge and culvert	5	1,141,662	15,000	812,662	329,000	Roofing and sheet-metal work	5	376,804	218,416	374,804	2,000
Street paving	5	608,370	399,103	608,370							
Other classes ¹	4	206,155	28,038	143,572	62,583						

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

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

STATE	LOCATION REPORTED BY—			STATE	LOCATION REPORTED BY—		
	All classes of establishments	General contractors	Subcontractors		All classes of establishments	General contractors	Subcontractors
MISSISSIPPI				MISSISSIPPI—Continued			
Total distributed by State ¹	\$1,527,464	\$1,430,964	\$96,500	Florida	\$5,000		\$5,000
Alabama	510,235	488,235	22,000	Louisiana	490,381	\$485,381	5,000
Arkansas	135,043	135,643		Tennessee	321,705	321,705	
				Other States, not specified	64,500		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

CLASSIFICATION OF ESTABLISHMENTS	Establishments reporting	PROPRIETORS AND FIRM MEMBERS				SALARIED EMPLOYEES								
		Receiving no salary	Receiving salaries		All salaried employees		Officers and clerical staff		Superintendents, foremen, etc.		Number reported by sex			Sex not reported
			Number	Total annual salaries	Total number	Total annual salaries	Number	Total annual salaries	Number	Total annual salaries	Total	Male	Female	
MISSISSIPPI	90	75	29	\$106,673	285	\$567,256	124	\$270,395	141	\$296,861	244	216	28	21
General contractors	63	60	14	62,803	181	300,823	64	130,768	117	251,055	170	158	12	11
Building	37	41	10	42,103	68	102,024	28	64,435	40	87,589	87	61	6	1
Building not specialized	33	37	10	42,103	67	100,024	28	64,435	39	95,589	66	60	6	1
Residential building only	4	4			1	2,000			1	2,000	1	1		
Highway	11	14			48	90,089	13	19,200	35	70,889	42	38	4	6
Bridge and culvert	5	2	2	13,200	30	64,192	12	29,750	18	34,442	26	25	1	4
Street paving	5	2	2	7,500	25	50,608	10	24,533	15	26,075	25	24	1	
Other classes ¹	5	3			10	23,910	1	1,850	9	22,060	10	10		
Subcontractors	27	15	15	43,870	84	176,433	60	130,627	24	45,806	74	58	16	10
Electrical	7	2	3	7,500	19	38,764	13	30,264	6	8,500	19	15	4	
Heating and plumbing	15	10	10	29,120	47	104,241	34	73,915	13	30,328	37	28	9	10
Plumbing	12	8	8	18,620	39	84,621	28	60,015	11	25,906	29	22	7	10
Plumbing and heating combined	3	2	2	10,500	8	19,320	6	14,900	2	4,420	8	6	2	
Roofing and sheet-metal work	5	3	2	7,250	18	33,428	13	26,448	5	6,980	18	15	3	

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

CLASSIFICATION OF ESTABLISHMENTS AND PERCENTAGE OF EQUIPMENT OWNED	Establishments reporting	EQUIPMENT		Value of construction business reported	Wages paid	CLASSIFICATION OF ESTABLISHMENTS AND PERCENTAGE OF EQUIPMENT OWNED	Establishments reporting	EQUIPMENT		Value of construction business reported	Wages paid
		Pur-chased during the year	Inventory value at end of year					Pur-chased during the year	Inventory value at end of year		
MISSISSIPPI	80	\$294,902	\$1,046,023	\$11,458,424	\$2,645,809	<i>Percentage of equipment owned</i>					
<i>Classification of establishments</i>						<i>General contractors</i>					
General contractors.....	57	284,129	972,206	9,575,458	2,168,087	None.....	57	\$284,129	\$972,206	\$9,575,458	\$2,168,087
Building.....	33	52,600	173,215	5,853,244	1,303,531	1 to 25 per cent.....	2	1,170	650	312,355	43,180
Building not specialized.....	30	51,200	170,115	5,475,095	1,257,808	26 to 50 per cent.....	1	10,126	11,900	40,954	23,877
Residential building only.....	3	1,400	3,100	178,149	45,723	51 to 75 per cent.....	8	62,605	124,958	1,894,508	349,069
Highway.....	10	140,945	488,762	1,977,895	401,189	76 to 99 per cent.....	46	210,228	834,698	7,818,141	1,751,952
Bridge and culvert.....	5	43,078	95,929	1,141,662	163,471	100 per cent.....	23	10,773	73,817	1,882,966	477,722
Street paving.....	4	5,579	91,654	508,779	136,743	None.....	2	550	14,139	150,040	33,246
Other classes ¹	5	41,867	122,646	238,878	78,153	1 to 25 per cent.....	21	10,223	59,078	1,732,917	444,476
Subcontractors.....	23	10,773	73,817	1,882,966	477,722	26 to 50 per cent.....	2	550	14,139	150,040	33,246
Electrical.....	8	5,079	25,531	543,303	125,852	51 to 75 per cent.....	1	10,126	11,900	40,954	23,877
Heating and plumbing.....	11	4,544	26,497	990,869	269,575	76 to 99 per cent.....	2	10,223	59,078	1,732,917	444,476
Roofing and sheet-metal work.....	4	1,150	21,739	348,034	82,295	100 per cent.....	2	550	14,139	150,040	33,246
						Not reported.....					

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

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

CLASSIFICATION OF ESTABLISHMENTS AND LENGTH OF WORKING WEEK	Establishments reporting	NUMBER EMPLOYED ON 15TH DAY OF THE MONTH OR NEAREST REPRESENTATIVE DAY												Wages paid during year
		January	February	March	April	May	June	July	August	September	October	November	December	
MISSISSIPPI	78	1,422	1,532	1,644	1,793	1,925	2,297	2,713	2,819	2,805	2,722	2,209	2,061	\$2,339,802
<i>General contractors</i>														
General contractors.....	52	1,086	1,196	1,321	1,453	1,560	1,945	2,350	2,471	2,396	2,353	1,810	1,709	1,839,388
Building.....	30	412	432	573	630	665	641	1,100	1,123	1,184	1,133	758	801	987,004
Building not specialized.....	11	394	421	487	578	594	675	748	810	702	769	603	485	517,994
Residential building only.....	3	38	120	105	100	128	147	209	183	190	171	178	150	135,471
Highway.....	4	175	149	73	71	101	123	224	297	250	201	190	195	133,366
Bridge and culvert.....	3	67	74	83	74	78	69	69	58	70	70	81	72	65,503
Street paving.....	4	67	74	83	74	78	69	69	58	70	70	81	72	65,503
Other classes ¹	4	67	74	83	74	78	69	69	58	70	70	81	72	65,503
Subcontractors.....	26	336	336	323	340	359	352	363	348	409	369	399	352	500,414
Electrical.....	8	97	88	79	76	76	72	68	75	78	88	95	85	125,574
Heating and plumbing.....	13	176	189	186	201	210	207	220	211	273	212	222	199	290,045
Plumbing.....	10	139	163	150	165	177	176	189	174	234	161	195	170	262,807
Plumbing and heating combined.....	3	37	36	36	36	39	31	31	37	39	21	27	29	37,178
Roofing and sheet-metal work.....	5	63	59	58	63	67	73	75	62	58	69	82	68	84,705
<i>Length of working week</i>														
General contractors.....	52	1,086	1,196	1,321	1,453	1,560	1,945	2,350	2,471	2,396	2,353	1,810	1,709	1,839,388
40-hour, 5-day week.....	1	20	27	30	29	27	32	41	25	23	20	20	19	23,877
44-hour, 5½-day week.....	3	61	76	117	113	109	341	201	308	307	296	168	106	151,060
45-hour, 5-day week.....	1	7	7	8	10	10	8	8	10	11	15	12	12	9,378
50-hour, 5-day week.....	5	75	82	82	76	70	100	128	145	183	178	104	87	142,233
All other 5-day week.....	6	129	99	188	177	168	163	136	143	111	168	114	162	208,499
48-hour, 6-day week.....	4	51	60	76	101	82	91	74	86	93	88	83	81	118,768
54-hour, 6-day week.....	4	70	90	88	80	86	123	132	140	142	140	120	106	125,266
60-hour, 6-day week.....	18	560	635	596	671	805	894	1,314	1,355	1,295	1,220	1,045	960	855,190
All other 6-day week.....	5	58	53	48	66	75	63	77	91	127	117	135	110	83,667
All other not designated.....	2	40	40	42	50	45	45	45	60	60	80	40	40	75,000
Not reported.....	3	18	27	46	36	33	35	104	108	44	22	23	20	46,520
<i>Subcontractors</i>														
Subcontractors.....	26	336	336	323	340	359	352	363	348	409	369	399	352	500,414
40-hour, 5-day week.....	10	152	139	131	149	155	157	159	142	152	163	169	163	215,326
45-hour, 5-day week.....	1	3	3	3	4	4	4	4	4	4	4	3	3	4,272
50-hour, 5-day week.....	2	13	18	18	17	18	20	20	17	16	16	15	13	34,989
All other 5-day week.....	6	96	108	108	109	117	112	117	116	107	131	150	118	141,389
48-hour, 6-day week.....	5	43	39	38	40	39	37	43	45	50	40	40	39	62,827
54-hour, 6-day week.....	2	29	29	25	21	26	22	20	24	20	15	22	21	41,661
60-hour, 6-day week.....	2	29	29	25	21	26	22	20	24	20	15	22	21	41,661
All other 6-day week.....	2	29	29	25	21	26	22	20	24	20	15	22	21	41,661
All other not designated.....														
Not reported.....														

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

CONSTRUCTION—MISSISSIPPI

TABLE 8.—EXPENDITURES OF REPORTING ESTABLISHMENTS: 1929

CLASSIFICATION OF ESTABLISHMENTS	Es-tab-lish-ments re- port- ing	Value of con- struction business reported	PRINCIPAL ITEMS OF EXPENDITURE			OTHER ITEMS OF EXPENDITURE							
			Sub-con- tract work let	Wages paid	Cost of materials	Salaries		Rent for		Inter- est	Con- tract bond pre- miums	Com- pen- sation and li- ability in- surance pre- miums	All other over- head ex- penses
						Propri- etors and firm mem- bers	Em- ployees	Equip- ment	Offices, etc.				
MISSISSIPPI	69	\$9,259,929	\$1,545,000	\$2,026,638	\$3,824,665	\$91,073	\$422,251	\$30,383	\$23,451	\$34,004	\$92,793	\$58,875	\$475,571
General contractors.....	49	7,715,892	1,545,000	1,671,300	3,111,283	62,303	274,203	23,962	9,497	23,500	89,634	51,581	355,438
Building.....	31	4,911,576	955,000	1,149,251	2,139,531	42,103	99,924	13,546	6,278	13,946	52,694	33,415	92,550
Building not specialized.....	28	4,733,427	915,000	1,103,523	2,071,363	42,103	97,924	13,546	5,978	13,408	52,554	33,151	91,700
Residential building only.....	3	178,149	41,000	45,723	68,163	-----	2,000	-----	300	450	140	264	850
Highway.....	7	966,927	123,000	185,282	339,333	-----	50,569	11,905	1,250	2,263	11,315	4,368	130,305
Bridge and culvert.....	5	1,141,632	440,000	163,471	358,364	13,200	64,192	2,883	1,474	3,697	17,070	9,175	26,343
Other classes ¹	6	695,727	26,000	173,296	274,060	7,500	59,518	628	495	3,594	8,555	4,625	100,238
Subcontractors.....	20	1,544,037	-----	355,338	713,377	28,270	148,043	1,421	13,954	10,504	3,159	7,294	120,135
Electrical.....	6	399,164	-----	85,243	213,597	1,500	37,394	-----	5,150	2,005	1,288	1,712	23,410
Heating and plumbing.....	10	845,283	-----	208,841	370,433	23,120	80,116	1,421	6,824	5,872	1,871	3,379	63,544
Roofing and sheet-metal work.....	4	301,590	-----	61,254	129,342	3,650	30,063	-----	1,930	2,627	-----	2,203	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

KIND OF MATERIAL	COST OF MATERIALS REPORTED BY—					KIND OF MATERIAL	COST OF MATERIALS REPORTED BY—					
	All classes of establish- ments			General contractors	Sub-con- tractors		All classes of establish- ments			General contractors	Sub-con- tractors	
	Amount	Per cent dis- tribu- tion	Per \$1,000 con- struction work done ¹				Amount	Per cent dis- tribu- tion	Per \$1,000 con- struction work done			
MISSISSIPPI						MISSISSIPPI—Continued						
All kinds of material.....	\$5,176,560	-----	\$476.09	\$4,055,422	\$1,121,144	Distributed by kind—Continued.						
Distribution not reported.....	1,528,670	29.5	-----	993,083	535,593	Millwork.....	\$300,494	8.2	\$39.22	\$300,494	-----	-----
Distributed by kind.....	3,647,890	100.0	-----	3,062,339	585,551	Composition board.....	17,267	.5	2.25	9,267	\$8,000	-----
Sand, gravel, stone, slag, cinders, etc.....	348,125	9.5	45.43	348,125	-----	Waterproofing materials.....	14,037	.4	1.33	9,037	5,000	-----
Brick (face, common, fire, paving, etc.).....	157,669	4.3	20.53	157,669	-----	Hardware, rough and finished.....	63,731	1.7	8.32	63,731	-----	-----
Tile (fireproofing).....	23,554	.8	3.73	23,554	-----	Paints, varnishes, glass.....	44,295	1.2	5.78	44,295	-----	-----
Tile, facing, terra cotta, floor, and wall.....	94,708	2.6	12.36	94,708	-----	Roofing and sheet metal.....	229,857	6.3	30.00	103,761	126,096	-----
Concrete and cinder block.....	83,327	2.3	10.87	83,327	-----	Finished flooring (other than ce- ment, wood, or tile).....	54,520	1.5	7.12	54,520	-----	-----
Cut stone, granite, and marble.....	209,838	5.8	27.38	209,838	-----	Screens, shades, awnings, etc.....	3,520	.1	.46	3,520	-----	-----
Cement.....	297,344	8.2	38.81	297,344	-----	Heating and ventilating equipment.....	148,427	4.1	19.37	115,400	33,027	-----
Lime.....	17,103	.5	2.23	17,103	-----	Plumbing and gas fitting equip- ment.....	151,269	4.1	19.74	4,389	146,880	-----
Plaster, etc.....	114,082	3.1	14.89	114,082	-----	Electrical appliances and supplies.....	271,283	7.4	35.41	4,740	266,543	-----
Structural steel.....	177,755	4.9	23.20	177,755	-----	Elevators, dumb-waiters, and equipment.....	4,035	.1	.53	4,035	-----	-----
Reinforcing steel.....	210,107	6.0	23.59	210,107	-----	Pipe: Drain tile, vitrified, concrete, segment tile, corrugated.....	11,988	.3	1.57	11,988	-----	-----
Cast iron, miscellaneous, excluding pipe.....	11,945	.3	1.56	11,945	-----	Pipe: Cast iron, sheet and tube steel, etc.....	50,839	1.4	6.64	50,839	-----	-----
Metal doors, windows, and trim.....	43,209	1.2	5.64	43,209	-----	Wire cable, guards, and fencing.....	2,200	.1	.29	2,200	-----	-----
Metal and wire lath and furring.....	8,763	.2	1.14	8,763	-----	Bituminous paving materials, tar, asphalt, and oil.....	45,717	1.3	5.97	45,717	-----	-----
Ornamental metal work.....	14,705	.4	1.92	14,705	-----	Wood piling and timber.....	5,000	.1	.65	5,000	-----	-----
Lumber, rough and finished.....	352,344	9.7	45.99	352,344	-----	Freight, hauling or trucking to job.....	6,911	.2	.90	6,911	-----	-----
Lath, shingles, and shakes (wood).....	10,412	.3	1.36	10,412	-----	Miscellaneous.....	33,508	.9	4.33	33,508	-----	-----

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 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.

CONSTRUCTION—MISSISSIPPI

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

KIND OF MATERIAL AND CLASSIFICATION OF ESTABLISHMENTS	COST OF DESIGNATED MATERIAL				Value of construction business	Indicated per cent of all business done by own force ¹	KIND OF MATERIAL AND CLASSIFICATION OF ESTABLISHMENTS	COST OF DESIGNATED MATERIAL				Value of construction business	Indicated per cent of all business done by own force ¹		
	Cost of all materials distributed by kind	Per cent of—		Amount				Cost of all distributed materials	Cost of all materials distributed by kind	Per cent of—				Amount	Cost of all distributed materials
		Total cost	Cost of all distributed materials							Total cost	Cost of all distributed materials				
MISSISSIPPI—Continued						MISSISSIPPI—Continued									
<i>Finished flooring (other than cement, wood, or tile)</i>						<i>Plumbing and gas fitting equipment</i>									
All classes.....	\$3,647,890	\$64,520	100.0	1.5	\$8,682,922	84.0	All classes.....	\$3,647,890	\$151,269	100.0	4.1	\$8,682,922	84.0		
General contractors.....	\$3,062,339	54,520	100.0	1.8	\$7,503,703	80.4	General contractors.....	\$3,062,339	4,389	2.9	.1	\$7,503,703	80.4		
Building.....	2,074,447	54,520	100.0	2.6	4,218,919	79.7	Building.....	2,074,447	4,389	2.9	.2	4,218,919	79.7		
Building not specialized.....	1,698,785	42,500	78.0	2.6	3,290,619	82.8	Building not specialized.....	1,698,785	4,389	2.9	.3	3,290,619	82.8		
Commercial building only.....	332,499	10,640	19.5	3.2	856,151	62.6	Subcontractors.....	\$585,551	146,880	97.1	25.1	\$1,179,219	100.0		
Residential building only.....	43,163	1,350	2.5	3.2	102,149	72.8	Heating and plumbing.....	194,245	146,880	97.1	75.0	406,817	100.0		
<i>Heating and ventilating equipment</i>						<i>Electrical appliances and supplies²</i>									
All classes.....	3,647,890	148,427	100.0	4.1	8,682,922	84.0	All classes.....	3,647,890	271,288	100.0	7.4	8,682,922	84.0		
General contractors.....	\$3,062,339	115,400	77.7	3.8	\$7,503,703	80.4	General contractors.....	\$3,062,339	4,740	1.7	.2	\$7,503,703	80.4		
Building.....	2,074,447	115,400	77.7	3.6	4,218,919	79.7	Building.....	2,074,447	3,900	1.5	.2	4,218,919	79.7		
Building not specialized.....	1,698,785	115,400	77.7	6.8	3,260,610	82.8	Building not specialized.....	1,698,785	3,900	1.3	.2	3,260,610	82.8		
Subcontractors.....	\$585,551	33,027	22.3	5.6	\$1,179,219	100.0	Residential building only.....	43,163	400	.1	.0	102,149	72.8		
Heating and plumbing.....	194,245	33,027	22.3	17.0	406,817	100.0	Highway.....	458,513	750	.3	.2	1,772,998	85.8		
Plumbing.....	194,245	33,027	22.3	17.0	406,817	100.0	Subcontractors.....	\$585,551	266,548	98.3	45.5	\$1,179,219	100.0		
							Electrical.....	266,548	266,548	98.3	100.0	488,647	100.0		

¹ Based upon the difference between the total value of all construction business reported and the value of subcontract work let.
² See footnote 2 of Table 9 on page 678.
³ Includes cost of materials reported by subcontracting establishments which did not include the designated material in their distributed lists.
⁴ Includes construction work reported by subcontracting establishments which did not include the designated material in their distributed lists.
⁵ Includes cost of materials reported by establishments which did not include designated material in their distributed lists.
⁶ Includes construction work reported by establishments which did not include the designated material in their distributed lists.
⁷ Less than one-tenth of 1 per cent.

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

CLASSIFICATION OF ESTABLISHMENTS	Total cost of all materials ¹	COST OF ALL MATERIALS DISTRIBUTED BY KIND		Sand, gravel, crushed stone, slag, cinders, etc.	Brick (face, common, fire, paving, etc.)	Tile, (fire-proofing)	Tile, (face, terra cotta, floor, and wall)	Concrete and cinder block	Cut stone, granite and marble	Cement	Lime	Plaster, etc.	Structural steel	Reinforcing steel	Cast iron, miscellaneous, excluding pipe	Metal doors, windows, and trim	Metal and wire lath and furring
		Amount	Per cent of total														
MISSISSIPPI	\$5,176,560	\$3,647,890	70.5	\$348,125	\$157,860	\$28,554	\$94,708	\$83,327	\$209,338	\$297,344	\$17,103	\$114,082	\$177,755	\$219,107	\$11,945	\$43,208	\$8,763
General contractors.....	\$4,055,422	3,062,339	75.5	348,125	157,860	28,554	94,708	83,327	209,338	297,344	17,103	114,082	177,755	219,107	11,945	43,208	8,763
Building.....	2,711,169	2,074,447	76.5	61,058	156,708	28,554	94,708	3,500	209,338	103,051	16,735	114,082	103,375	82,724	11,945	43,208	8,763
Building not specialized.....	2,299,707	1,698,785	73.9	69,911	149,160	15,142	62,369	3,500	103,438	80,454	14,413	113,279	98,721	69,474	9,945	10,456	8,763
Commercial building only.....	332,499	332,499	100.0	20,533	7,200	13,412	32,330	-----	106,400	21,600	2,040	-----	4,254	13,250	2,000	26,750	-----
Residential building only.....	78,068	43,163	54.7	614	430	-----	-----	-----	-----	997	282	803	400	-----	-----	-----	-----
Highway.....	682,230	458,513	67.2	154,589	870	-----	-----	71,507	-----	90,926	-----	-----	8,380	47,822	-----	-----	-----
Bridges and culvert.....	358,364	358,364	100.0	61,866	-----	-----	-----	-----	-----	73,200	-----	-----	66,000	87,020	-----	-----	-----
Street paving.....	244,065	120,587	49.3	40,612	-----	-----	-----	8,320	-----	30,167	368	-----	-----	1,541	-----	-----	-----
Sewer, gas, water, conduit.....	50,428	50,428	100.0	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Subcontractors.....	1,121,144	585,551	52.2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Electrical.....	306,548	266,548	87.0	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Plumbing and heating.....	449,838	194,245	29.9	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Plumbing.....	643,981	104,245	35.7	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Roofing and sheet-metal work.....	104,758	124,758	75.7	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Roofing.....	98,000	73,000	74.5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Sheet-metal work.....	31,342	10,342	52.1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Roofing and sheet-metal combined.....	35,416	35,416	100.0	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

See footnotes at end of table.

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

CLASSIFICATION OF ESTABLISHMENTS	Orna-mental metal work	Lum-ber, rough and finished	Laths, shingles, and shakes	Mill-work	Com-position board	Water-proofing materials	Hard-ware, rough and finished	Paints, var-nishes, and glass	Roof-ing and sheet metal	Fin-ished floor-ing n. e. s.	Heat-ing and ven-tilating equip-ment	Plumb-ing and gas fitting equip-ment	Elec-trical appli-ances and sup-ples	Pipe: Drain tile, vitrified, con-crete, etc.	Pipe: Cast iron, sheet and tube-steel, etc.	Bitu-minous paving materials	Freight haul-ing or truck-ing to job	Mis-col-laneous
MISSISSIPPI.....	\$14,705	\$362,344	\$10,412	\$300,494	\$17,267	\$14,037	\$63,731	\$44,295	\$228,857	\$54,520	\$148,427	\$161,269	\$271,288	\$11,988	\$50,839	\$45,717	\$6,911	\$48,263
General contractors.....	14,705	352,344	10,412	300,494	0,267	9,037	63,731	44,295	103,761	54,520	115,400	4,389	4,740	11,988	50,839	45,717	6,911	48,263
Building.....	14,705	260,446	10,412	300,494	9,297	7,527	53,093	43,955	103,761	54,520	115,400	4,389	3,000	1,922	10,000	-----	523	11,735
Building not special-ized.....	3,305	220,957	10,412	256,509	9,017	6,027	40,258	43,455	103,761	42,500	115,400	4,389	3,590	1,922	10,000	-----	523	11,735
Commercial building only.....	11,400	10,547	-----	36,598	-----	1,500	12,036	-----	10,640	-----	-----	-----	-----	-----	-----	-----	-----	-----
Residential building only.....	-----	28,942	-----	7,337	250	-----	769	500	-----	1,380	-----	-----	400	-----	-----	-----	-----	-----
Highway.....	-----	51,966	-----	-----	-----	-----	1,400	40	-----	-----	-----	-----	750	6,000	10,839	12,358	-----	1,000
Bridge and culvert.....	-----	39,900	-----	-----	-----	1,510	9,268	300	-----	-----	-----	-----	4,000	-----	-----	200	-----	15,100
Street paving.....	-----	32	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	33,159	6,388	-----
Sewer, gas, water, con-duit.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	30,000	-----	-----	20,428
Subcontractors.....	-----	-----	-----	-----	8,000	5,000	-----	-----	120,000	-----	33,027	146,880	260,548	-----	-----	-----	-----	-----
Electrical.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	266,548	-----	-----	-----	-----	-----
Plumbing and heating.....	-----	-----	-----	-----	-----	-----	-----	-----	14,338	-----	33,027	146,880	-----	-----	-----	-----	-----	-----
Plumbing.....	-----	-----	-----	-----	-----	-----	-----	-----	14,338	-----	33,027	146,880	-----	-----	-----	-----	-----	-----
Roofing and sheet-metal work.....	-----	-----	-----	-----	8,000	5,000	-----	-----	111,758	-----	-----	-----	-----	-----	-----	-----	-----	-----
Roofing.....	-----	-----	-----	-----	8,000	5,000	-----	-----	60,000	-----	-----	-----	-----	-----	-----	-----	-----	-----
Sheet-metal work.....	-----	-----	-----	-----	-----	-----	-----	-----	16,342	-----	-----	-----	-----	-----	-----	-----	-----	-----
Roofing and sheet met-al combined.....	-----	-----	-----	-----	-----	-----	-----	-----	35,410	-----	-----	-----	-----	-----	-----	-----	-----	-----

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.
 2 See footnote 2 of Table 9 on p. 676.
 3 Includes grading, \$3,536.
 4 Includes plumbing and heating combined, \$105,857.
 5 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 CONSTRUCTION BUSINESS OF LESS THAN \$25,000 IN 1929, PERCENTAGE OF TOTAL NUMBER OF KNOWN ESTABLISHMENTS, AND AVERAGE VOLUME PER ESTABLISHMENT

TYPES OF WORK	MISSISSIPPI 1930 population, 2,009,821							
	Known contracting establishments				Volume of business reported			
	Total number	Inactive in 1929	Active in 1929		Number of reporting establishments	Per cent of active	Amount	Average per establishments
			Number	Per cent				
Total establishments canvassed (less than \$25,000).....	307	10	357	-----	-----	-----	-----	
Total establishments, type of work unknown.....	5	-----	5	-----	-----	-----	-----	
Total general and subcontractors classified.....	302	10	352	100.0	-----	-----	-----	
Total general contractors classified.....	172	5	167	47.4	32	19.2	\$382,287	\$11,946
Building.....	141	4	137	38.9	28	20.4	324,737	11,600
Highway.....	22	-----	22	6.3	3	13.6	47,500	15,833
Bridge and culvert.....	7	-----	7	2.0	-----	-----	-----	-----
Paving.....	1	-----	1	.3	1	100.0	10,000	10,000
Dredging, river and harbor.....	1	1	-----	-----	-----	-----	-----	-----
Total subcontractors classified.....	100	5	185	52.6	37	20.0	248,235	6,709
Carpentering.....	33	2	31	8.8	6	19.4	18,420	3,070
Concreting.....	9	1	8	2.3	-----	-----	-----	-----
Electrical.....	39	-----	39	11.1	6	15.4	70,261	11,710
Heating, piping, and ventilating.....	3	1	2	.6	-----	-----	-----	-----
Plumbing and heating.....	46	-----	46	13.1	7	15.7	74,719	10,674
Masonry.....	7	-----	7	2.0	2	28.6	7,150	3,575
Painting and decorating.....	31	1	30	8.5	9	30.0	18,973	2,087
Glass and glazing.....	2	-----	2	.6	1	50.0	15,493	15,493
Plastering.....	4	-----	4	1.1	1	25.0	2,000	2,000
Roofing and sheet metal.....	12	-----	12	3.4	2	16.7	12,819	6,410
Marble and tiling.....	3	-----	3	.9	2	66.7	22,500	11,250
Wracking.....	1	-----	1	.3	1	100.0	6,000	6,000

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
MISSISSIPPI											
Total general and subcontractors.....	69	13	7	8	3	9	5	10	2	4	3
General contractors.....	32	5	1	3	1	7	4	3	2	3	3
Subcontractors.....	37	13	6	5	2	2	1	7	-----	1	-----

MISSOURI

CONTENTS

	Page
MAP	682
TABLE 1.—Value of construction business during 1929, and principal items of expenditure.....	683
TABLE 2.—Construction business of reporting establishments during 1929, by class of ownership and by type of work.....	684
TABLE 3.—Construction business during 1929, by location.....	686
TABLE 4.—Construction business outside home State, by location.....	687
TABLE 5.—Number and salaries of proprietors, firm members, and salaried employees: 1929.....	688
TABLE 6.—Value of construction equipment, in comparison with construction business and wages paid during 1929.....	689
TABLE 7.—Wage earners, by months, and wages paid during 1929.....	690
TABLE 8.—Expenditures of reporting establishments: 1929.....	693
TABLE 9.—Cost of materials furnished and used by reporting establishments during 1929, by kind.....	695
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.....	696
TABLE 11.—Cost of material furnished and used by reporting establishments during 1929.....	704
TABLE 12.—Number of, and volume of business reported by establishments doing a construction business of less than \$25,000 in 1929, percentage of total number of known establishments, and average volume per establishment.....	710
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.....	710

MISSOURI



CONSTRUCTION—MISSOURI

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

AREA, CLASSIFICATION OF ESTABLISHMENTS, AND SIZE OF BUSINESS GROUPS	Number of establishments	VALUE OF CONSTRUCTION BUSINESS				PRINCIPAL EXPENDITURES			AREA, CLASSIFICATION OF ESTABLISHMENTS, AND SIZE OF BUSINESS GROUPS	Number of establishments	VALUE OF CONSTRUCTION BUSINESS				PRINCIPAL EXPENDITURES		
		Total	Under general contract or directly for owner	Under sub-contract	Sub-contract work let	Wages paid	Cost of materials	Total			Under general contract or directly for owner	Under sub-contract	Sub-contract work let	Wages paid	Cost of materials		
MISSOURI	768	\$152,684	\$120,418	\$32,245	\$52,368	\$36,906	\$62,422		KANSAS CITY	189	\$43,276	\$34,770	\$8,505	\$5,913	\$12,131	\$15,733	
<i>Counties and principal cities</i>								<i>Classification of establishments</i>									
Counties:								Operative builders	18	5,000	5,000			1,150	1,309	1,819	
Boone	7	700	494	206	103	164	283	General contractors	77	25,408	25,282	126	4,287	6,849	9,013		
Buchanan	33	3,145	2,353	792	470	830	1,202	Building	41	13,224	13,224		3,027	3,156	4,436		
Butler	3	365	355		7	134	146	Building not specialized	30	10,316	10,316		2,085	2,511	3,366		
Capa Girardeau	11	1,203	1,224	39	129	327	394	Commercial building only	7	1,507	1,507		403	388	597		
Cass	3	223	223		7	90	75	Residential building only	4	1,402	1,402		470	267	443		
Cole	4	201	259	32	74	77	80	Highway	14	2,609	2,568	41	184	723	1,022		
Cooper	4	400	494	5	40	181	60	Grading	3	320	320			117	23		
Greene	19	3,481	2,056	526	688	1,043	1,391	Street paving	4	501	481	80	1	120	201		
Howell	3	101	141	50	33	50	62	Railroad, bridge and culvert	7	6,173	6,188	5	69	2,109	2,174		
Jackson	203	43,451	34,873	8,578	5,068	12,188	15,744	Other classes ¹	8	2,521	2,521		106	625	1,066		
Jasper	15	1,709	706	943	228	501	600	Subcontractors	104	12,862	4,482	8,379	470	3,913	4,902		
Marion	6	486	482	3	29	116	203	Concrete	6	1,481	362	1,119		540	828		
Pettis	4	532	392	140	48	178	169	Electrical	17	1,084	457	627		324	483		
St. Louis	35	3,014	2,210	795	578	617	1,199	Heating and plumbing	28	5,000	2,070	2,925	231	1,234	2,348		
St. Louis City	375	90,716	70,922	19,794	23,534	19,788	29,947	Heating and piping ⁴	11	2,278	907	1,276	183	504	920		
Saline	3	814	268	46	30	94	107	Plumbing	7	2,011	728	1,313	40	471	1,048		
Other counties ¹	31	2,267	2,000	297	441	621	702	Plumbing and heating combined	10	687	351	336	8	169	371		
Principal cities: ²								Painting and decorating	6	604	303	301		382	99		
Kansas City	199	43,276	34,770	8,505	5,913	12,131	15,733	Glass and glazing	3	227		227		63	104		
St. Louis	375	90,716	70,922	19,794	23,534	19,788	29,947	Plastering and lathing	5	600	25	581	13	262	219		
<i>Classification of establishments</i>								<i>Size of business groups</i>									
Operative builders	36	8,601	8,601		3,480	1,707	2,333	General contractors ⁴	65	30,414	30,288	126	5,437	8,218	10,832		
General contractors	332	90,404	98,645	849	27,415	21,687	31,523	\$25,000 to \$49,999	6	212	212		60	57	42		
Building	189	57,147	50,553	593	24,055	10,294	14,051	\$50,000 to \$99,999	24	1,841	1,822	19	507	409	572		
Building not specialized	138	40,825	46,542	282	21,029	8,570	11,007	\$100,000 to \$199,999	25	3,747	3,662	85	1,084	836	1,164		
Commercial building only	20	4,550	4,559		1,130	725	2,106	\$200,000 to \$499,999	26	8,140	8,118	22	1,760	2,000	2,764		
Residential building only	31	5,763	5,452	311	2,496	958	1,478	\$500,000 to \$999,999	8	5,042	5,042		302	1,473	1,900		
Highway	14	7,070	7,623	59	647	2,206	2,493	\$1,000,000 and over	6	11,432	11,432		1,634	3,498	4,310		
Bridge and culvert	46	5,702	5,014	88	33	2,106	1,791	Building contractors ⁶	59	18,230	18,230		5,077	4,525	6,255		
Grading	14	1,211	1,211		232	392	31	\$25,000 to \$49,999	5	167	167		60	40	42		
Street paving	36	5,556	5,470	80	266	921	2,607	\$50,000 to \$99,999	16	1,210	1,210		384	242	425		
Sewer, gas, water, conduit	10	2,746	2,746		749	831		\$100,000 to \$199,999	15	2,177	2,177		1,012	628	611		
Dredging, river, harbor, etc.	3	2,129	2,129		143	139	10	\$200,000 to \$499,999	15	4,826	4,826		1,658	1,019	1,599		
Levee	3	509	572	27	102	139	10	\$500,000 to \$999,999	4	2,816	2,810		329	800	1,120		
Railroad	8	4,678	4,678		135	1,871	1,332	\$1,000,000 and over	4	7,034	7,034		1,634	1,000	2,468		
Central station, light and power plant	5	3,474	3,474		20	856	1,769	Subcontractors	104	12,862	4,482	8,379	476	3,913	4,902		
Other classes ³	5	8,574	8,574		1,182	1,524	5,132	\$25,000 to \$49,999	30	1,121	397	724		358	446		
Subcontractors	391	44,560	13,172	31,396	1,473	13,601	18,566	\$50,000 to \$99,999	40	2,912	854	2,058	55	944	1,234		
Carpentering and wood flooring	6	440	181	262	10	117	202	\$100,000 to \$199,999	19	2,607	946	1,721	208	695	1,068		
Concrete	25	4,459	1,000	3,390	23	1,530	1,360	\$200,000 to \$499,999	11	3,172	1,357	1,815	136	1,030	1,100		
Electrical	62	4,865	1,820	3,045	1	1,741	1,959	\$500,000 to \$999,999	3	1,900	520	1,380	12	507	717		
Elevator construction	3	1,612	240	1,363		371	1,012	\$1,000,000 and over	1	1,092	410	682	85	314	336		
Heating and plumbing	121	13,116	4,898	8,218	534	3,016	6,504	ST. LOUIS	376	90,716	70,922	19,794	23,534	19,788	29,947		
Heating and piping ⁴	36	6,160	2,755	2,405	429	1,288	2,483	<i>Classification of establishments</i>									
Plumbing	60	6,420	1,410	5,010	96	1,707	3,225	Operative builders	14	2,944	2,944		1,094	232	343		
Plumbing and heating combined	25	1,530	733	797	9	384	856	General contractors	145	61,040	60,523	516	20,894	11,283	18,150		
Masonry	13	3,043	321	2,722	5	1,059	1,392	Building	63	37,016	36,501	456	18,952	5,354	7,678		
Painting and decorating	18	1,846	636	1,160	7	1,091	360	Building not specialized	11	2,994	2,994		16,539	4,410	5,396		
Glass and glazing	6	812	280	562		195	367	Commercial building only	17	3,684	3,353	311	1,783	613	785		
Plastering and lathing	10	885	64	811	13	408	286	Residential building only	6	1,210	1,210		69	274	478		
Roofing and sheet-metal work	45	2,865	961	1,905	38	718	1,282	Highway	6	2,155	2,094	61	7	891	609		
Roofing	29	1,851	800	1,051	38	416	831	Bridge and culvert	7	692	692		232	206	8		
Sheet-metal work	16	1,015	161	854		302	451	Grading	20	4,050	4,050		263	647	1,830		
Steel erection	6	1,555	706	849	370	224	593	Street paving	6	1,854	1,854			544	586		
Stone work	5	878	118	760		199	511	Sewer, gas, water, conduit	3	1,590	1,596		143	539	344		
Marble and tiling	34	2,936	448	2,488	12	894	1,215	Levee ⁵	3	1,498	1,496		66	760	276		
Excavating	11	1,130	112	1,018	59	460	10	Railroad	3	10,962	10,962		1,072	2,060	6,442		
Ornamental iron	5	550	27	523	5	119	283	Other classes ¹¹	3								
Roofing and sheet-metal work	3	123		123		31		Subcontractors	216	26,733	7,455	19,278	736	8,273	11,463		
Railroad, bridge and culvert	3	1,233	354	879	247	444	317	Carpentering and wood flooring	3	260	184	85	10	66	113		
Metal work, n. e. s.	12	1,415	468	947		330	729	Concrete	13	2,565	607	1,898		864	902		
Other classes ⁸	4	800	467	343	143	266	124	Electrical	39	3,410	1,317	2,093	1	1,202	1,315		
<i>Size of business groups</i>								Elevator construction	3	1,612	249	1,363		371	1,012		
General contractors ⁶	368	108,095	107,246	849	30,895	23,394	33,856	Heating and plumbing	59	6,311	2,158	4,153	300	1,753	3,213		
\$25,000 to \$49,999	66	2,332	2,320	12	613	638	647	Heating and piping ¹²	22	2,798	1,648	1,151	246	671	1,470		
\$50,000 to \$99,999	86	6,460	6,401	65	1,680	1,480	1,973	Plumbing	37	3,513	510	3,002	54	1,082	1,744		
\$100,000 to \$199,999	91	13,237	13,047	190	4,282	2,607	3,700	Masonry	10	2,790	292	2,497	3	971	1,267		
\$200,000 to \$499,999	81	24,898	24,700	138	7,079	5,184	7,422	Painting and decorating ¹³	12	1,608	609	999	7	702	475		
\$500,000 to \$999,999	22	14,958	14,647	311	2,606	4,124	5,080	Plastering and lathing	5	279	29	250		145	67		
\$1,000,000 and over	22	46,205	46,072	133	14,763	9,360	15,036	Roofing and sheet-metal work	19	1,148	317	831	8	300	450		
Building contractors ⁶	225	65,748	65,155	593	23,135	12,001	16,984	Roofing	13	841	312	529	8	221	332		
\$25,000 to \$49,999	43	1,466	1,466		479	322	499	Sheet-metal work	6	307	5	302		79	118		
\$50,000 to \$99,999	50	3,749	3,717	32	1,457	702	1,192	Steel erection	6								

CONSTRUCTION—MISSOURI

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

AREA, CLASSIFICATION OF ESTABLISHMENTS, AND SIZE OF BUSINESS GROUPS	Number of establishments	VALUE OF CONSTRUCTION BUSINESS			PRINCIPAL EXPENDITURES			AREA, CLASSIFICATION OF ESTABLISHMENTS, AND SIZE OF BUSINESS GROUPS	Number of establishments	VALUE OF CONSTRUCTION BUSINESS			PRINCIPAL EXPENDITURES		
		Total	Under general contract or directly for owner	Under sub-contract	Sub-contract work let	Wages paid	Cost of materials			Total	Under general contract or directly for owner	Under sub-contract	Sub-contract work let	Wages paid	Cost of materials
ST. LOUIS—Continued.						ST. LOUIS—Continued.									
<i>Classification of establishments—Continued.</i>						<i>Size of business groups—Continued.</i>									
Subcontractors—Continued.						General contractors—Con.									
Stone work.....	4	\$848	\$119	\$724		\$190	\$499	Building contractors ⁶	105	\$39,961	\$39,505	\$456	\$20,946	\$5,585	\$3,020
Marble and tiling.....	20	1,917	314	1,603	\$12	622	793	\$25,000 to \$49,999.....	13	479	479		198	99	128
Excavating and grading.....	10	908	47	857	14	377	2	\$50,000 to \$99,999.....	20	1,521	1,521		871	199	250
Ornamental iron.....	4	520	27	494	5	110	270	\$100,000 to \$199,999.....	24	3,278	3,278		2,099	387	341
Metal work, n. e. s.....	10	1,282	430	852		313	625	\$200,000 to \$499,999.....	31	9,267	9,255	12	4,418	1,500	2,047
<i>Size of business groups</i>						<i>Subcontractors</i>									
General contractors ⁶	159	63,984	63,467	516	22,798	11,515	18,493	\$25,000 to \$49,999.....	216	26,739	7,455	19,278	736	8,273	11,453
\$25,000 to \$49,999.....	21	766	766		203	203	176	\$50,000 to \$99,999.....	63	2,253	429	1,824	28	779	880
\$50,000 to \$99,999.....	30	2,268	2,268		882	460	507	\$100,000 to \$199,999.....	75	5,464	1,887	4,077	53	1,719	2,179
\$100,000 to \$199,999.....	35	5,173	5,113	60	2,364	711	1,033	\$200,000 to \$499,999.....	44	6,479	2,311	4,168	93	2,007	2,714
\$200,000 to \$499,999.....	47	14,097	14,085	12	4,708	2,474	3,901	\$500,000 to \$999,999.....	30	8,663	2,728	5,935	212	2,784	3,897
\$500,000 to \$999,999.....	11	7,966	7,655	311	2,059	1,906	2,291	\$1,000,000 and over.....	2	1,592	600	992	360	366	518
\$1,000,000 and over.....	15	33,718	33,580	133	12,582	5,761	10,536		2	2,282		2,282		618	1,275

¹ Includes Audair, Audrain, Bates, Cedar, Clark, Clay, Dallas, Dunklin, Franklin, Grundy, Johnson, Lawrence, Lewis, Linn, Livingstone, Mississippi, Osage, Pike, Randolph, St. Charles, St. Clair, St. Francois, Scott, Taney, Vernon, for which data can not be shown separately 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.
² Figures are included in respective county totals.
³ Includes dam and reservoir; oil and natural gas pipe line; telephone line and system; and waterworks.
⁴ Includes pipe covering; and automatic temperature control.
⁵ Includes sewer, gas, water and conduit; power plant work; flooring, miscellaneous, n. e. s.; and miscellaneous, n. e. s.
⁶ Includes operative builders.
⁷ 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.
⁸ Includes steel erection and ornamental iron.
⁹ Includes excavating; bridge and culvert; sewer, gas, water and conduit; railroad; power plant work; and miscellaneous, n. e. s.
¹⁰ Includes dredging, river and harbor, etc.
¹¹ Includes central station, light and power plant; and oil and natural gas pipe line.
¹² Includes pipe covering; and plumbing and heating combined.
¹³ 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

CLASS OF OWNERSHIP AND TYPE OF CONSTRUCTION WORK	CONSTRUCTION BUSINESS REPORTED BY—				CLASS OF OWNERSHIP AND TYPE OF CONSTRUCTION WORK	CONSTRUCTION BUSINESS REPORTED BY—							
	All classes of establishments		General contractors ¹			Subcontractors		All classes of establishments		General contractors ¹		Subcontractors	
	Number reporting	Value	Number reporting	Value		Number reporting	Value	Number reporting	Value	Number reporting	Value	Number reporting	Value
MISSOURI													
All construction business.....	759	\$152,663,525	368	\$108,094,923	391	\$44,568,602	MISSOURI—Continued						
Distribution not reported.....	37	4,314,777	7	1,472,788	30	2,841,989	All business under general contract or directly for owners—Contd.						
Distributed by class of ownership.....	722	148,348,748	361	106,622,135	361	41,726,613	Public works and utilities—Con.						
Private.....	611	104,667,417	263	70,128,882	348	34,628,535	Park grounds, etc.....						
Quasi public or community.....	153	9,099,048	40	6,052,046	113	3,047,002	River and harbor improvement.....						
Public.....	278	34,592,283	155	30,441,207	123	4,151,076	Sewage disposal and drainage.....						
Distribution not reported.....	26	1,403,994	8	814,744	18	889,250	Water supply.....						
Distributed by class of public ownership.....	252	33,188,280	147	20,620,403	105	3,561,826	Other classes².....						
Federal.....	35	6,709,997	16	6,557,220	19	152,777	Miscellaneous.....						
State.....	75	7,769,566	53	6,648,295	22	1,111,271	Air transport work.....						
County or township.....	87	4,203,048	47	3,766,175	40	446,873	Miscellaneous, n. e. s.³.....						
Municipal.....	155	14,515,678	82	12,664,773	73	1,850,905	All business under subcontract.....						
All business under general contract or directly for owners.....	538	120,418,534	367	107,240,228	171	13,172,306	Distribution not reported.....						
Distribution not reported.....	2	160,000	2	160,000			Distributed by class.....						
Distributed by class.....	536	120,258,534	365	107,080,228	171	13,172,306	Carpentering and wood flooring.....						
Building.....	304	75,809,670	234	65,146,334	160	10,605,336	Concrete.....						
Distribution not reported.....	26	2,972,028	14	1,494,001	15	1,478,028	Electrical.....						
Distributed by class.....	305	72,834,641	220	63,652,333	145	9,182,308	Elevator construction.....						
Commercial.....	193	20,740,676	122	18,474,866	71	2,265,810	Heating and plumbing.....						
Educational.....	94	4,943,961	45	4,181,809	49	762,152	Heating and piping⁴.....						
Hotel.....	35	3,062,286	15	2,533,523	20	228,466	Pipe covering.....						
Hospital and institutional.....	57	3,195,203	23	2,964,264	34	280,900	Plumbing.....						
Manufacturing.....	74	7,178,738	30	6,192,879	44	985,859	Plumbing and heating combined.....						
Military and naval.....	1	3,811,158	1	3,602,147	17	149,011	Masonry.....						
Public: Courts, jails, etc.....	29		12		30	162,244	Painting and decorating.....						
Religious and memorial.....	65	2,337,027	35	2,174,783	30	162,244	Glass and glazing.....						
Residential.....	230	20,558,482	142	18,053,467	97	2,605,015	Plastering and lathing.....						
Social and recreational.....	37	2,850,507	20	2,851,640	17	208,967	Roofing and sheet-metal work.....						
Air transport.....	15	625,093	9	584,602	6	40,431	Roofing.....						
Rail and water transportation.....	9	312,999	5	273,634	4	30,365	Sheet-metal work.....						
Miscellaneous.....	62	3,418,508	31	1,904,426	31	1,514,079	Steel erection.....						
Highway and street.....	103	14,379,164	101		2		Stone work.....						
Railroad and car line.....	17	4,363,622	15		2		Marble and tiling.....						
Public works and utilities.....	91	25,023,019	68	23,262,446	23	1,761,167	Wrecking.....						
Bridge, tunnel, etc.....	32	4,915,362	27	4,438,634	5	476,778	Excavating.....						
Central station, light and power plant.....	21	4,417,428	11	3,373,831	10	1,043,597	Ornamental iron.....						
Dock, pier, retaining wall, etc.....	4	17,715	4	17,715			Highway.....						
Flood control, irrigation, and land drainage.....	5	578,191	4	(?)	1	(?)	Grading.....						
							Sewer, gas, water, conduit.....						
							Dam and reservoir.....						
							Railroad⁵.....						
							Metal work, n. e. s.....						
							Other classes⁷.....						

See footnotes at end of table.

CONSTRUCTION—MISSOURI

685

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

CLASS OF OWNERSHIP AND TYPE OF CONSTRUCTION WORK	CONSTRUCTION BUSINESS REPORTED BY—						CLASS OF OWNERSHIP AND TYPE OF CONSTRUCTION WORK	CONSTRUCTION BUSINESS REPORTED BY—					
	All classes of establishments		General contractors ¹		Subcontractors			All classes of establishments		General contractors ¹		Subcontractors	
	Number reporting	Value	Number reporting	Value	Number reporting	Value		Number reporting	Value	Number reporting	Value	Number reporting	Value
KANSAS CITY													
All construction business.....	199	\$43,275,076	95	\$30,414,143	104	\$12,861,533	All construction business—Con.	120	\$18,492,492	54	\$15,054,019	72	\$2,438,473
Distribution not reported.....	8	916,503	1	344,000	7	572,503	Public.....	12	886,009	2	493,171	10	392,838
Distributed by class of ownership.....							Distribution not reported.....						
Private.....	101	42,350,113	94	30,070,143	07	12,288,970	Distributed by class of public ownership.....	114	17,600,483	52	15,460,848	62	2,145,635
Quasi public or community.....	108	31,431,134	72	21,028,266	04	10,392,865	Federal.....	18	4,383,007	7	4,207,435	11	85,872
Public.....	36	1,947,861	5	1,070,496	30	877,355	State.....	22	1,993,185	13	1,436,298	9	556,887
Distribution not reported.....	59	8,990,128	33	7,971,378	26	1,018,750	County or township.....	34	1,714,501	15	1,539,260	19	175,641
Distributed by class of public ownership.....	2	90,564	1	25,564	1	65,000	Municipal.....	89	9,515,490	36	8,187,855	53	1,827,635
Federal.....	57	8,809,504	32	7,945,814	25	953,750	All business under general contract or directly for owners.....	242	70,922,268	159	63,466,918	83	7,455,348
State.....	11	2,237,007	6	2,192,030	5	45,571	Distribution not reported.....	2	100,000	2	160,000		
Municipal.....	15	1,904,249	9	1,072,097	0	232,152	Distributed by class.....	240	70,762,266	157	63,305,918	83	7,455,348
	25	1,234,240	13	1,051,080	12	182,310	Building.....	100	46,726,039	111	40,000,527	79	6,636,112
	30	3,523,418	17	3,029,701	13	493,717	Distribution not reported.....	14	1,948,290	5	641,665	9	1,206,631
All business under general contract or directly for owners.....	150	\$4,770,238	95	\$0,287,948	61	\$4,482,290	Distributed by class.....	176	44,878,343	108	39,448,862	70	5,429,481
Building.....	113	21,075,734	59	17,969,813	54	3,105,921	Commercial.....	99	11,622,269	58	10,072,218	41	1,550,051
Distribution not reported.....	9	843,653	5	630,306	4	213,347	Educational.....	47	3,860,569	20	3,317,491	27	543,068
Distributed by class.....	104	20,232,081	54	17,339,507	50	2,892,574	Hotel.....	21	2,433,774	8	2,205,209	13	168,665
Commercial.....	49	6,898,047	28	6,274,299	21	623,748	Hospital and institutional.....	38	2,846,143	15	2,728,950	23	117,193
Educational.....	14	133,500	4	40,255	10	93,245	Manufacturing.....	39	4,358,987	16	3,690,575	23	608,412
Hotel.....	6	113,853	2	(?)	4	(?)	Military and naval.....	1	3,763,343	1	3,631,015	13	132,228
Hospital and institutional.....	15	281,754	6	177,410	10	104,344	Public: Courts, jails, etc.....	19	1,478,274	10	1,418,090	13	59,278
Manufacturing.....	17	2,596,252	6	2,336,810	11	259,442	Religious and memorial.....	33	10,855,098	73	0,597,288	41	2,677,780
Public: Courts, jails, etc.....	3	17,651	(?)	(?)	2	(?)	Residential.....	114	1,708,849	9	1,633,810	7	73,030
Religious and memorial.....	12	296,300	6	228,578	6	37,732	Social and recreational.....	4	367,410	3	363,432	2	3,978
Residential.....	68	7,558,994	33	6,663,900	35	895,085	Rail and water transportation.....	2	585,607	11	729,800	14	865,798
Social and recreational.....	9	841,307	2	(?)	7	(?)	Highway and street.....	29	5,596,943	20	5,506,943	2	1,833,129
Air transport.....	7	284,300	1	213,282	1	71,024	Railroad and car line.....	7	1,833,129	7	1,833,129	9	808,662
Rail and water transportation.....	18	1,240,057	8	704,097	10	535,960	Public works and utilities.....	34	16,498,181	25	15,680,519	1	(?)
Miscellaneous.....	25	3,072,674	24	(?)	1	(?)	Bridge, tunnel, etc.....	11	1,980,168	10	(?)	1	(?)
Highway and street.....	7	2,343,557	6	(?)	(?)	(?)	Central station, light and power plant.....	8	3,394,608	3	2,963,756	5	440,852
Railroad and car line.....	26	7,124,740	19	6,320,050	7	804,693	Dock, pier, retaining wall, etc.....	1	1,415,662	2	1,415,662	4	1,267,791
Public works and utilities.....	9	2,402,119	7	(?)	2	(?)	Flood control, irrigation and land drainage.....	1	1,781,268	10	1,781,268	1	(?)
Bridge, tunnel, etc.....	8	810,085	3	207,340	5	602,745	Oil and natural gas pipe line.....	5	7,870,665	4	(?)	1	(?)
Central station, light and power plant.....	3	9,300	3	9,300	—	—	Water supply.....	1	55,810	1	55,810	2	55,810
Dock, pier, retaining wall, etc.....	5	2,439,709	6	2,439,709	—	—	Refuse disposal plant.....	1	57,374	1	(?)	1	(?)
River and harbor improvement.....	6	725,950	4	(?)	1	(?)	Park, grounds, etc.....	1	57,374	1	(?)	1	(?)
Sewage disposal and drainage.....	1	737,586	2	(?)	1	(?)	Miscellaneous, n. e. s. ²	2	(?)	1	(?)	1	(?)
Flood control, irrigation and land drainage.....	3	737,586	2	(?)	1	(?)	Air transport work.....	1	57,374	1	(?)	1	(?)
Water supply.....	1	55,810	1	(?)	2	(?)	Miscellaneous, n. e. s. ²	1	57,374	1	(?)	1	(?)
Telephone line and system.....	1	55,810	1	(?)	2	(?)	All business under subcontract.....	190	\$0,794,041	5	\$16,351	185	\$10,277,090
Miscellaneous.....	3	553,524	1	(?)	2	(?)	Distribution not reported.....	1	258,000	1	258,000	1	255,000
Air transport work.....	1	57,374	1	(?)	2	(?)	Distributed by class.....	189	19,539,041	5	516,351	184	10,022,690
Miscellaneous, n. e. s. ²	3	553,524	1	(?)	2	(?)	Carpentering and wood flooring.....	5	116,268	1	(?)	4	(?)
All business under subcontract.....	88	\$8,505,438	4	\$128,195	84	\$8,379,243	Concrete.....	16	2,688,344	3	493,726	13	2,274,618
Concrete and stone work.....	9	2,119,212	2	(?)	14	877,311	Electrical.....	32	2,076,989	—	—	32	2,076,989
Electrical.....	14	677,311	—	—	17	2,775,190	Elevator construction.....	4	1,431,791	—	—	4	1,431,791
Heating and plumbing.....	18	2,498,037	—	—	18	1,498,037	Heating and plumbing.....	4	4,180,625	—	—	4	(?)
Heating and piping.....	12	1,062,989	—	—	12	1,062,989	Heating and piping.....	20	1,053,563	—	—	20	1,053,563
Plumbing and heating combined.....	4	214,164	—	—	4	214,164	Pipe covering.....	7	117,027	—	—	7	117,027
Painting and decorating.....	5	300,997	—	—	5	300,997	Plumbing.....	42	3,010,035	—	—	42	(?)
Glass and glazing.....	3	227,217	—	—	3	227,217	Masonry.....	11	2,130,797	—	—	11	(?)
Plastering and lathing.....	5	581,030	—	—	5	581,030	Painting, decorating, and glazing.....	7	985,359	—	—	7	985,359
Roofing and sheet-metal work.....	8	683,257	—	—	8	683,257	Plastering and lathing.....	5	250,163	—	—	5	250,163
Roofing.....	8	345,574	—	—	8	345,574	Roofing and sheet-metal work.....	12	831,775	—	—	12	(?)
Sheet-metal work.....	10	337,683	—	—	10	337,683	Roofing.....	12	528,261	1	(?)	11	(?)
Steel erection.....	4	335,700	—	—	4	335,700	Sheet-metal work.....	10	303,514	—	—	10	303,514
Marble and tiling.....	9	560,147	—	—	9	560,147	Steel erection.....	5	603,288	—	—	5	603,288
Wrecking.....	1	217,699	—	—	1	217,699	Stone work.....	4	722,261	—	—	4	722,261
Excavating.....	2	927,678	—	—	2	927,678	Marble and tiling.....	18	1,599,895	—	—	18	1,599,895
Grading.....	7	927,678	—	—	7	927,678	Excavating and wrecking.....	10	813,322	—	—	10	813,322
Other classes ¹¹	7	927,678	—	—	7	927,678	Ornamental iron.....	5	279,262	—	—	5	279,262
						Metal work, n. e. s. ¹²	9	802,409	—	—	9	802,409	
						Other classes ¹²	5	128,495	—	—	5	128,495	
ST. LOUIS													
All construction business.....	375	\$0,716,307	159	\$3,983,269	216	\$2,733,038							
Distribution not reported.....	20	2,987,325	5	1,099,788	15	1,887,537							
Distributed by class of ownership.....	355	87,728,982	154	62,838,481	201	24,845,501							
Private.....	322	63,566,093	125	42,908,868	197	20,657,225							
Quasi public or community.....	75	5,670,307	17	4,020,594	58	1,648,803							

¹ Includes operative builders.
² Value omitted in order to avoid disclosing individual operations. The amounts omitted are, however, included in the respective totals.
³ Includes establishments reporting the following types of work: General contractors: Oil and natural gas pipe line, 2; telephone line and system, 1. Subcontractors: Refuse disposal plant, 2.
⁴ Includes one subcontracting establishment reporting automatic sprinkler system.
⁵ Includes 1 establishment reporting automatic temperature control.
⁶ Includes 1 establishment reporting bridge and culvert.
⁷ Includes 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.
⁸ Includes 1 subcontracting establishment reporting automatic sprinkler system.
⁹ Includes establishments reporting the following types of work: Pipe covering, 2; and automatic temperature control, 1.
¹⁰ Includes 2 establishments reporting ornamental iron work.
¹¹ 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. s., 2.
¹² Includes establishments reporting the following types of work: Grading, 1; street paving, 1; sound proofing, 1; rental of equipment, trucking, etc., 1; flooring, n. e. s., 1.

CONSTRUCTION—MISSOURI

TABLE 3.—CONSTRUCTION BUSINESS DURING 1929, BY LOCATION

CLASSIFICATION OF ESTABLISHMENTS	Establishments reporting	Total	In home city	In home State	Outside home State	CLASSIFICATION OF ESTABLISHMENTS	Establishments reporting	Total	In home city	In home State	Outside home State		
												Dollars	Dollars
MISSOURI						KANSAS CITY—Continued.							
Operative builders		36	8,601,362	7,599,104	8,085,604	515,758	Subcontractors		103	12,751,033	6,251,534	7,994,450	4,786,583
General contractors		323	96,430,106	47,197,895	66,991,774	20,447,332	Concreting		6	1,480,876	180,590	414,203	1,066,673
Building		184	55,762,595	30,057,938	42,817,761	12,944,834	Electrical		10	973,493	870,482	887,971	85,522
Building not specialized		134	45,698,202	27,131,988	33,209,202	12,399,090	Heating and plumbing		28	5,000,165	2,208,172	3,092,349	1,907,816
Commercial building only		20	4,559,040	4,055,570	4,462,540	96,494	Heating and piping ¹		11	2,272,095	656,174	1,107,906	1,165,087
Residential building only		30	5,505,263	4,870,434	5,056,013	449,260	Plumbing		7	2,040,609	1,057,480	1,371,644	668,965
Highway		40	7,678,548	1,288,748	6,763,694	924,854	Plumbing and heating combined		10	686,363	455,512	612,790	73,764
Bridge and culvert		12	4,191,896	339,335	1,632,246	2,259,650	Painting and decorating		6	608,505	571,405	506,455	7,050
Grading		13	1,145,693	182,781	811,881	333,712	Glass and glazing		3	227,217	162,181	178,190	49,027
Street paving		35	5,656,830	4,437,663	5,475,839	80,000	Plastering and lathing		5	606,321	228,271	349,235	257,026
Sewer, gas, water, conduit		10	2,745,597	1,589,941	1,710,941	1,034,650	Roofing and sheet-metal work		18	1,159,206	1,006,341	1,065,337	93,860
Dredging, river, harbor, etc.		3	2,120,323	800	1,794,339	334,984	Roofing		12	758,398	665,095	697,491	60,907
Railroad		8	4,677,973	127,330	2,128,147	2,549,826	Sheet-metal work		6	406,808	341,248	307,846	32,062
Central station, light and power plant		5	3,473,544	2,779,809	2,836,891	636,653	Marble and tiling		10	710,678	533,684	583,717	126,956
Other classes ¹		7	9,078,198	393,034	730,385	8,348,163	Metal work, n. e. s. ²		4	440,552	324,211	346,436	94,116
							Other classes ³		7	1,649,325	160,197	450,437	1,098,888
							ST. LOUIS						
Subcontractors		387	43,536,297	30,175,883	35,390,102	8,140,195	Operative builders		14	2,943,747	2,739,947	2,943,747	—
Carpentering and wood flooring		6	440,234	206,972	349,519	96,715	General contractors		141	59,131,190	32,698,444	40,760,412	18,370,778
Concreting		21	4,103,058	2,513,938	2,936,145	1,106,913	Building		90	36,668,145	24,661,854	28,770,846	7,888,299
Electrical		64	4,750,015	3,940,568	4,088,220	690,686	Building not specialized		62	36,010,643	18,766,759	22,630,588	7,380,055
Elevator construction		3	1,611,809	889,709	1,245,719	360,090	Commercial building only		11	2,998,757	2,643,100	2,897,263	96,494
Heating and plumbing		120	12,806,671	9,073,638	10,688,432	2,117,239	Residential building only		17	3,663,745	3,251,996	3,251,995	411,750
Heating and piping ²		30	5,160,425	2,908,261	3,799,639	1,360,743	Highway		6	1,209,560	174,430	1,117,993	92,067
Plumbing		59	6,115,327	4,867,460	5,432,595	682,732	Bridge and culvert		5	1,754,873	333,951	373,196	381,677
Plumbing and heating combined		25	1,520,019	1,217,917	1,456,155	73,764	Grading		6	627,045	113,300	498,475	128,570
Masonry		13	3,042,642	2,616,290	2,898,872	143,770	Street paving		20	4,058,608	3,349,094	4,058,608	—
Painting and decorating		18	1,845,701	1,717,980	1,787,865	57,836	Sewer, gas, water, conduit		6	1,854,040	1,420,745	1,420,745	433,295
Glass and glazing		5	812,125	667,089	738,098	79,027	Railroad		3	1,495,710	1,238,578	876,682	619,037
Plastering and lathing		10	885,038	454,410	620,607	264,431	Other classes ⁴		5	12,463,200	2,621,682	3,635,307	8,827,533
Roofing and sheet-metal work		45	2,895,423	2,440,182	2,669,681	156,430	Subcontractors		213	25,811,233	21,143,410	23,444,818	2,360,415
Roofing		20	1,500,518	1,542,864	1,694,088	195,412	Carpentering and wood flooring		3	268,512	160,842	190,047	78,465
Sheet-metal work		10	1,014,905	908,318	975,593	39,312	Concreting		12	2,208,901	2,197,301	2,197,301	11,000
Steel erection		6	1,565,100	634,544	1,211,534	343,572	Electrical		39	3,409,067	2,703,611	2,833,403	570,264
Stone work		5	877,050	732,288	879,212	4,438	Elevator construction		3	1,611,809	889,709	1,245,719	360,090
Marble and tiling		34	2,996,214	2,190,388	2,426,814	509,400	Heating and plumbing		58	6,000,197	5,446,023	5,800,095	194,102
Excavating		11	1,120,630	667,849	936,610	136,120	Heating and piping ³		22	2,797,761	2,833,419	2,612,059	185,702
Ornamental iron work		4	284,813	277,353	284,597	3,000	Plumbing		36	3,292,430	3,112,604	3,194,036	8,400
Grading		3	122,757	70,672	119,757	4,438	Masonry		10	2,780,978	2,509,609	2,646,207	143,770
Railroad, bridge and culvert		3	1,232,590	30,000	343,222	589,368	Painting and decorating ⁵		12	1,697,878	1,511,514	1,567,103	40,775
Metal work, n. e. s. ²		12	1,414,821	918,664	986,844	427,977	Plastering and lathing		5	278,717	226,139	271,312	7,405
Other classes ¹		4	300,100	87,929	132,475	667,625	Roofing and sheet-metal work		19	1,147,924	1,062,425	1,108,025	39,890
KANSAS CITY						ST. LOUIS							
Operative builders		18	5,000,115	4,420,357	4,490,357	515,758	Roofing		13	840,888	773,480	803,489	37,399
General contractors		76	25,150,220	9,587,612	15,537,009	9,613,211	Sheet-metal work		6	307,030	288,930	304,536	2,500
Building		40	12,000,468	7,830,407	8,669,472	4,296,986	Steel erection		5	1,277,508	447,191	1,013,836	263,672
Building not specialized		30	10,315,020	5,243,060	6,056,134	4,259,480	Stone work		4	842,650	697,238	838,212	4,438
Commercial building only		7	1,506,689	1,480,639	1,594,930	—	Marble and tiling		20	1,917,423	1,582,045	1,732,615	184,808
Residential building only		3	1,144,199	1,106,699	1,106,699	37,500	Excavating and grading		10	903,390	650,724	872,270	31,120
Highway		14	2,098,836	860,434	2,063,634	544,905	Ornamental iron work		3	265,139	250,975	256,109	9,030
Grading		3	319,712	69,481	183,456	136,256	Metal work, n. e. s. ²		10	1,281,541	808,164	860,564	414,977
Street paving		4	660,668	375,608	468,908	80,000							
Railroad, bridge and culvert		7	6,173,303	4,258	2,512,360	3,660,943							
Other classes ¹		8	2,521,210	438,334	1,627,089	894,121							

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 miscellaneous, 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.

CONSTRUCTION—MISSOURI

687

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

STATE	LOCATION REPORTED BY—			STATE	LOCATION REPORTED BY—		
	All classes of establishments	General contractors ¹	Subcontractors		All classes of establishments	General contractors ¹	Subcontractors
MISSOURI				KANSAS CITY—Continued			
Total distributed by State ²				Total distributed by State—Continued.			
Alabama.....	485,734	385,390	100,338	Michigan.....	\$7,785		\$7,785
Arizona.....	725		725	Minnesota.....	433,171	\$351,045	81,226
Arkansas.....	2,212,295	1,911,453	300,842	Montana.....	725		725
California.....	32,778	1,174	31,604	Nebraska.....	691,897	615,029	76,868
Colorado.....	612,957	560,605	43,352	New Jersey.....	80,000		80,000
District of Columbia.....	243,857	243,857		New Mexico.....	43,282	43,282	
Florida.....	64,557	50,000	5,557	New York.....	172,000	172,000	
Georgia.....	87,953	57,587	30,366	North Dakota.....	15,717		15,717
Idaho.....	16,518	16,518		Ohio.....	98,638	34,536	64,052
Illinois.....	5,992,436	4,755,273	1,237,163	Oklahoma.....	1,112,578	603,818	608,760
Indiana.....	1,057,874	966,064	91,810	Pennsylvania.....	13,018		13,018
Iowa.....	319,470	157,611	156,059	Rhode Island.....	5,000		5,000
Kansas.....	6,153,180	4,435,277	1,672,903	South Carolina.....	14,608		14,608
Kentucky.....	609,800	486,000	123,800	South Dakota.....	3,310		3,310
Louisiana.....	227,886	197,101	30,785	Tennessee.....	11,857		11,857
Maryland.....	157,946	157,946		Texas.....	1,825,976	418,863	1,407,113
Massachusetts.....	170,000	170,000		Utah.....	1,147		1,147
Michigan.....	149,073	125,188	24,785	West Virginia.....	1,699		1,699
Minnesota.....	433,171	351,045	81,226	Wisconsin.....	247,033		247,033
Mississippi.....	8,826	8,826		Wyoming.....	5,122		5,122
Montana.....	725		725	Other States, n. s.....	82,371		82,371
Nebraska.....	1,860,682	1,770,327	89,755	ST. LOUIS			
New Jersey.....	503,040	423,940	80,000	Total distributed by State ⁴			
New Mexico.....	200,603	197,603	3,000	Alabama.....	164,023	63,685	100,338
New York.....	1,010,476	953,476	57,000	Arkansas.....	892,714	690,043	202,671
North Carolina.....	105,659	105,659		California.....	1,174	1,174	
North Dakota.....	15,717		15,717	Colorado.....	48,626	48,626	
Ohio.....	1,187,172	1,013,703	173,469	District of Columbia.....	243,857	243,857	
Oklahoma.....	2,087,527	1,312,864	774,663	Florida.....	59,000	59,000	
Oregon.....	10,925	24,431	30,803	Georgia.....	57,587	57,587	
Pennsylvania.....	55,234		5,000	Idaho.....	16,518		16,518
Rhode Island.....	14,608		14,608	Illinois.....	3,692,852	2,847,530	845,266
South Carolina.....	67,982	64,672	3,310	Indiana.....	956,983	803,847	63,139
South Dakota.....	145,602	113,025	32,577	Iowa.....	80,732	26,233	4,529
Tennessee.....	9,772,047	7,913,162	1,858,885	Kansas.....	735,570	537,065	197,615
Texas.....	1,147		1,147	Kentucky.....	9,710		9,710
Utah.....	203,738	203,738		Louisiana.....	10,075	10,075	
Virginia.....	11,815	9,642	2,173	Maryland.....	157,946	157,946	
Washington.....	1,099		1,099	Massachusetts.....	170,000	170,000	
West Virginia.....	333,733	85,113	248,670	Michigan.....	142,188	125,188	17,000
Wisconsin.....	5,122		5,122	Mississippi.....	8,826	8,826	
Wyoming.....	1,402,546	535,989	816,557	Nebraska.....	1,107,215	1,164,208	2,917
Other States, n. s.....				New Jersey.....	423,940		
KANSAS CITY				New Mexico.....	157,321	154,321	3,000
Total distributed by State ³				New York.....	833,476	781,470	57,000
Alabama.....	321,711	321,711		North Carolina.....	165,659	165,659	
Arizona.....	725		725	Ohio.....	1,083,534	979,117	104,417
Arkansas.....	992,579	911,982	80,597	Oklahoma.....	558,073	646,237	41,836
California.....	31,604		31,604	Oregon.....	10,925	10,925	
Colorado.....	544,987	520,979	24,008	Pennsylvania.....	42,216	24,431	17,785
Florida.....	4,237		4,237	South Dakota.....	64,672	64,672	
Georgia.....	30,366		30,366	Tennessee.....	68,873	63,153	5,720
Illinois.....	1,977,386	1,665,725	311,661	Texas.....	7,220,614	7,220,614	
Indiana.....	100,891	72,217	28,674	Virginia.....	203,738	203,738	
Iowa.....	266,197	123,378	142,819	Washington.....	9,642		9,642
Kansas.....	4,060,064	3,700,428	1,259,636	Wisconsin.....	89,750		89,750
Kentucky.....	600,000	486,000	114,000	Other States, n. s.....	1,207,134	515,206	691,838
Louisiana.....	217,811	187,026	30,785				

¹ Includes operative builders.

Number of establishments reporting:

² All classes, 215; general contractors, 88; subcontractors, 127.

³ All classes, 99; general contractors, 39; subcontractors, 57.

⁴ All classes, 85; general contractors, 33; subcontractors, 52.

CONSTRUCTION—MISSOURI

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

CLASSIFICATION OF ESTABLISHMENTS	Es-tab-lish-ments re- port- ing	PROPRIETORS AND FIRM MEMBERS				SALARIED EMPLOYEES								Sex not re- ported
		Re- ceiv- ing no sal- ary	Receiving salaries		All salaried employees		Officers and cler- ical staff		Superintendents, foremen, etc.		Number reported by sex			
			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	
MISSOURI	738	347	211	\$728, 736	2, 739	\$7, 907, 175	1, 685	\$4, 938, 211	1, 148	\$2, 973, 964	2, 445	2, 102	343	288
Operative builders	34	12	8	42, 035	113	353, 296	65	233, 510	48	124, 786	111	87	24	2
General contractors	325	175	99	252, 276	1, 470	4, 411, 685	731	2, 508, 670	745	1, 903, 015	1, 355	1, 206	149	121
Building	186	100	45	131, 730	715	2, 271, 107	395	1, 376, 686	617	894, 421	617	527	90	98
Building not specialized	137	74	33	100, 383	570	1, 838, 136	305	1, 084, 924	265	753, 212	492	419	73	78
Commercial building only	19	12	4	7, 080	75	223, 651	49	161, 344	26	62, 307	76	68	7	---
Residential building only	30	14	8	23, 177	70	209, 320	41	180, 418	29	78, 902	60	40	10	20
Highway	44	32	12	84, 850	185	424, 444	71	194, 391	114	230, 053	178	160	12	7
Bridge and culvert	14	6	---	---	105	349, 604	46	208, 135	59	141, 469	105	94	11	---
Grading	14	11	3	3, 000	26	85, 094	16	59, 638	10	25, 456	22	20	2	4
Street paving	34	13	4	12, 670	105	323, 128	60	229, 445	45	93, 083	93	83	10	12
Sewer, gas, water, conduit	9	7	5	19, 376	51	115, 416	21	52, 832	30	62, 584	61	48	6	---
Dredging, river, harbor, etc.	3	2	---	---	35	138, 060	14	84, 200	21	53, 860	35	32	3	---
Levee	3	---	---	---	13	42, 800	7	25, 200	6	17, 600	13	12	1	---
Railroad	8	---	---	---	110	353, 403	38	128, 760	78	229, 653	110	107	9	---
Central station, light and power plant	5	3	---	---	31	81, 055	19	54, 131	12	26, 924	31	29	2	---
Other classes	5	1	---	---	94	222, 574	44	65, 282	50	127, 312	94	91	3	---
Subcontractors	379	160	134	434, 425	1, 144	3, 137, 194	789	2, 191, 081	355	946, 163	979	809	170	165
Carpentering and wood flooring	6	3	7	10, 084	18	32, 999	12	21, 748	6	11, 251	18	11	7	---
Concreting	25	13	6	12, 800	109	364, 667	50	213, 361	59	151, 306	106	94	12	3
Electrical	62	24	15	59, 188	176	435, 182	133	324, 178	43	111, 004	137	106	31	39
Elevator construction	3	1	---	---	24	62, 819	11	21, 485	13	41, 334	24	18	6	---
Heating and plumbing	117	51	60	140, 820	285	747, 817	231	582, 398	54	165, 419	232	182	50	53
Heating and piping	34	12	10	38, 172	114	325, 906	95	265, 663	19	80, 243	94	76	18	20
Plumbing	50	29	23	55, 170	138	361, 997	104	269, 681	34	102, 316	113	89	24	8
Plumbing and heating combined	24	10	17	47, 478	33	59, 914	32	57, 064	1	2, 860	25	17	8	10
Masonry	13	7	5	30, 876	48	191, 266	21	110, 868	27	80, 398	38	35	5	---
Painting and decorating	18	7	6	16, 916	41	140, 084	28	107, 104	13	32, 980	31	25	6	10
Glass and glazing	4	1	2	12, 577	29	81, 130	22	65, 310	7	15, 820	20	16	4	2
Plastering and lathing	10	5	7	31, 716	23	51, 119	11	16, 419	12	34, 700	21	18	3	---
Roofing and sheet-metal work	42	4	24	59, 354	109	245, 392	78	181, 942	31	63, 450	68	40	18	11
Roofing	28	4	12	26, 177	80	174, 911	62	141, 443	18	33, 488	72	59	13	8
Sheet-metal work	14	---	12	38, 177	29	70, 481	16	40, 499	13	29, 962	25	21	5	3
Steel erection	6	---	---	---	31	123, 410	17	76, 150	14	47, 260	31	28	3	---
Stone work	4	2	---	---	12	46, 615	9	46, 615	3	8, 286	12	12	---	---
Marble and tiling	34	12	6	19, 914	104	259, 695	83	206, 942	21	52, 753	90	73	12	14
Excavating	11	14	---	---	34	78, 631	19	43, 765	15	34, 886	30	27	3	4
Ornamental iron	5	2	1	3, 380	20	47, 824	17	38, 989	3	8, 836	9	18	---	2
Grading	3	3	---	---	2	4, 954	2	4, 954	---	---	2	2	---	---
Railroad, bridge, and culvert	3	7	---	---	16	47, 930	9	31, 870	7	16, 989	16	15	1	---
Metal work, n. e. s.	0	2	3	21, 200	40	116, 430	25	77, 133	15	39, 297	36	29	7	4
Other classes	4	2	2	9, 600	23	59, 230	11	29, 080	12	30, 150	19	17	2	4
KANSAS CITY	191	78	69	243, 369	819	2, 338, 477	427	1, 323, 329	392	1, 013, 148	768	650	108	63
Operative builders	17	6	1	1, 040	63	220, 024	34	141, 808	20	78, 216	63	52	11	---
General contractors	75	33	18	101, 793	424	1, 276, 302	187	652, 543	237	623, 759	395	347	48	29
Building	40	17	13	54, 293	199	607, 403	95	325, 411	104	281, 992	170	141	29	29
Building not specialized	30	12	8	36, 251	152	601, 579	79	296, 709	78	207, 870	143	119	24	9
Commercial building only	6	6	2	4, 880	15	35, 112	6	11, 522	10	29, 590	16	13	3	---
Residential building only	4	---	3	18, 122	31	70, 712	10	20, 180	21	50, 632	11	9	2	20
Highway	13	5	5	47, 500	52	128, 352	21	63, 816	31	64, 500	52	47	5	---
Grading	3	4	---	---	5	8, 100	4	6, 300	1	4, 800	5	4	1	---
Street paving	9	3	---	---	9	27, 990	4	14, 970	5	13, 020	9	8	1	---
Railroad, bridge, and culvert	1	---	---	---	110	339, 287	42	151, 540	68	187, 721	110	104	0	---
Other classes	8	4	---	---	49	165, 190	21	90, 500	28	74, 690	49	43	6	---
Subcontractors	99	37	40	140, 536	332	842, 151	206	530, 978	126	311, 173	288	251	47	34
Concreting	6	3	2	5, 400	52	139, 808	17	54, 808	35	85, 000	49	44	5	3
Electrical	17	4	7	20, 000	39	92, 625	34	78, 592	6	18, 963	33	27	6	6
Heating and plumbing	26	8	10	33, 994	91	250, 590	63	173, 411	28	77, 149	80	62	18	11
Heating and piping	10	4	2	8, 860	44	118, 237	33	88, 146	11	30, 691	39	30	9	5
Plumbing	9	2	2	5, 560	32	110, 286	15	63, 228	17	47, 058	29	23	6	3
Plumbing and heating combined	7	2	6	19, 574	15	22, 037	15	22, 037	---	---	12	9	3	3
Painting and decorating	6	4	3	7, 173	16	37, 033	7	16, 489	9	21, 144	8	7	1	8
Plastering and lathing	5	3	2	19, 200	13	29, 854	4	5, 454	9	24, 400	13	12	1	---
Roofing and sheet-metal work	17	2	19	26, 623	45	94, 702	30	69, 365	15	31, 137	43	36	7	2
Roofing	11	2	2	5, 000	36	78, 987	28	59, 370	11	19, 617	37	30	7	2
Sheet-metal work	3	---	8	21, 623	6	15, 715	2	4, 195	1	11, 620	6	6	---	---
Metal work, n. e. s.	6	2	---	---	4	12, 300	3	9, 300	4	3, 000	4	3	1	---
Marble and tiling	10	6	2	5, 389	84	84, 769	30	75, 849	4	8, 920	34	30	4	4
Other classes	9	5	4	22, 177	38	100, 000	18	53, 540	20	46, 460	34	30	4	4
ST. LOUIS	384	141	80	288, 985	1, 527	4, 763, 480	952	3, 161, 614	575	1, 601, 866	1, 351	1, 187	184	178
Operative builders	13	3	7	40, 995	39	105, 122	21	59, 802	18	45, 320	39	29	10	---
General contractors	141	64	16	45, 012	787	2, 571, 143	421	1, 567, 686	366	1, 003, 457	734	661	73	53
Building	80	39	13	36, 012	430	1, 459, 903	252	833, 445	178	626, 458	388	342	46	42
Building not specialized	62	27	11	33, 212	395	1, 143, 646	181	689, 275	154	459, 371	293	250	34	42
Commercial building only	11	5	2	2, 800	59	188, 539	43	149, 822	16	38, 717	59	55	4	---
Residential building only	16	7	---	---	36	127, 718	14	46, 652	11	27, 418	25	22	3	---
Highway	6	6	---	---	25	74, 070	14	46, 652	11	27, 418	25	22	3	---
Bridge and culvert	6	2	---	---	37	165, 035	9	38, 838	7	19, 156	12	11	1	4
Grading	7	5	---	---	16	57, 994	9	37, 300	29	65, 087	61	55	6	7
Street paving	10	5	1	2, 500	68	252, 460	15	87, 300	15	37, 300	30	27	3	---
Sewer, gas, water, conduit	5	6	2	6, 500	30	65, 414								

CONSTRUCTION—MISSOURI

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

CLASSIFICATION OF ESTABLISHMENTS	Es- tab- lish- ments re- port- ing	PROPRIETORS AND FIRM MEMBERS			SALARIED EMPLOYEES									
		Re- ceiv- ing no salary	Receiving salaries		All salaried employees		Officers and clerical staff		Superintendents, foremen, etc.		Number reported by sex			Sex not reported
			Number	Total annual salaries	Total number	Total annual salaries	Number	Total annual salaries	Number	Total annual salaries	Total	Male	Female	
ST. LOUIS—Continued.														
Subcontractors.....	210	74	57	\$200,088	701	\$2,087,215	510	\$1,534,126	191	\$553,089	578	477	101	123
Carpentering and wood flooring.....	3		2	4,680	16	80,130	10	13,888	6	11,251	16	10	6	-----
Concreting.....	13	6	2	5,000	41	187,850	31	148,953	10	38,006	41	34	7	-----
Electrical.....	39	18	4	24,500	124	327,280	88	232,888	36	94,401	91	70	21	33
Elevator construction.....	3				24	62,810	11	21,485	13	41,334	24	18	6	-----
Heating and plumbing.....	57	21	20	62,707	157	433,568	134	354,008	23	78,570	120	97	23	37
Heating and piping ⁷	31	5	5	24,220	71	220,717	63	190,505	8	30,152	55	47	8	16
Plumbing.....	26	16	15	38,577	86	212,851	71	164,133	15	48,718	65	50	15	21
Masonry.....	10	5	3	9,743	40	176,004	42	168,544	7	10,400	38	31	7	11
Painting and decorating ¹⁰	12	2	4	12,516	10	21,265	7	10,965	3	10,300	8	6	2	2
Plastering and lathing.....	5	2	2	10,743	45	112,492	34	91,161	11	21,331	39	33	6	6
Roofing and sheet-metal work.....	18	2	10	22,077	29	70,144	24	59,413	5	10,731	26	21	5	3
Roofing.....	13	2	9	18,177	29	70,144	24	59,413	5	10,731	26	21	5	3
Sheet-metal work.....	5		1	8,900	16	42,348	10	31,748	6	10,600	13	12	1	3
Steel erection.....	3				27	111,110	14	66,850	13	44,200	27	25	2	-----
Stone work.....	5				12	46,615	0	37,335	3	9,280	12	12	-----	14
Marble and tiling.....	20	6	4	14,545	60	153,587	49	122,050	11	31,537	46	39	7	-----
Excavating and grading.....	10	10	1	3,880	32	75,585	19	45,719	13	29,866	28	25	3	4
Ornamental iron work.....	4		1	3,880	20	47,824	17	38,089	3	8,855	18	18	-----	2
Metal work, n. e. s.....	8	1	3	21,200	40	116,430	25	77,133	15	39,297	36	20	7	4

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

⁵ 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

CLASSIFICATION OF ESTABLISHMENTS AND PERCENTAGE OF EQUIPMENT OWNED	Establishments reporting	EQUIPMENT		Value of construction business reported	Wages paid	CLASSIFICATION OF ESTABLISHMENTS AND PERCENTAGE OF EQUIPMENT OWNED	Establishments reporting	EQUIPMENT		Value of construction business reported	Wages paid
		Purchased during the year	Inventory value at end of year					Purchased during the year	Inventory value at end of year		
MISSOURI											
Missouri.....	681	\$3,367,217	\$10,196,128	\$144,485,574	\$35,118,355	MISSOURI—Continued.					
<i>Classification of establishments</i>						<i>Percentage of equipment owned</i>					
Operative builders.....	30	24,924	48,323	7,534,642	1,574,678	General contractors ¹	337	\$2,601,455	\$7,936,611	\$103,626,953	\$22,636,468
General contractors.....	307	2,576,531	7,888,288	96,092,311	21,061,790	None.....	22		3,236,393	8,236,393	544,873
Building.....	172	334,903	1,040,301	54,530,235	9,926,589	1% to 25%.....	6	1,991	5,392	2,644,457	402,218
Building not specialized.....	128	1,419,475	4,516,821	45,159,921	8,308,840	26% to 50%.....	6	3,041	26,639	970,420	187,981
Commercial building only.....	17	12,979	112,010	4,259,702	698,854	51% to 75%.....	10	42,337	130,770	3,205,753	975,440
Residential building only.....	27	28,304	114,816	5,119,932	923,695	76% to 99%.....	58	954,826	1,961,378	29,579,456	7,400,014
Highway.....	41	522,839	1,020,306	7,403,822	2,094,608	100%.....	229	1,599,055	6,792,739	62,309,243	12,983,361
Bridge and culvert.....	13	189,460	926,358	5,005,428	2,078,747	Not reported.....	6	205	13,795	18,989	82,691
Grading.....	18	118,100	453,797	1,170,593	350,837	Subcontractors.....	344	765,762	2,259,515	40,858,621	12,482,917
Street paving.....	35	278,516	864,428	5,555,839	920,407	None.....	12		1,600	633,975	276,950
Sewer, gas, water, conduit.....	9	337,320	341,965	2,368,311	644,284	1% to 25%.....	1	300	1,600	41,063	19,418
Dredging, river, harbor, etc.....	3	298,956	470,305	2,139,322	629,160	26% to 50%.....	4	79,870	190,708	849,292	276,830
Levee.....	3	56,937	460,813	699,268	139,212	51% to 75%.....	1	3,322	3,117	71,229	21,508
Railroad.....	8	216,535	688,852	4,677,978	1,871,469	76% to 99%.....	21	68,273	242,692	4,764,466	1,703,587
Central station, light and power plant.....	5	27,800	94,580	3,473,544	855,960	100%.....	202	607,732	1,787,386	33,062,030	9,941,075
Other classes ¹	5	145,775	320,574	8,573,930	1,623,677	Not reported.....	13	7,465	34,212	1,136,666	243,549
KANSAS CITY											
<i>Classification of establishments</i>						<i>Percentage of equipment owned</i>					
Operative builders.....	16	23,419	37,901	4,842,495	1,337,096	General contractors.....	74	830,618	2,482,115	24,879,219	6,755,405
General contractors.....	39	67,762	334,826	12,789,266	3,090,592	Building.....	32	67,372	272,046	11,282,627	2,702,510
Building not specialized.....	7	3,990	62,780	1,606,639	388,082	Building not specialized.....	7	3,990	62,780	1,606,639	388,082
Commercial building only.....	13	119,337	430,712	2,515,330	695,418	Commercial building only.....	7	3,990	62,780	1,606,639	388,082
Highway.....	3	28,250	93,927	319,710	116,660	Highway.....	13	119,337	430,712	2,515,330	695,418
Grading.....	4	8,013	62,788	560,698	119,675	Grading.....	3	28,250	93,927	319,710	116,660
Street paving.....	7	323,011	1,080,043	6,173,303	2,109,463	Street paving.....	4	8,013	62,788	560,698	119,675
Railroad, bridge, and culvert.....	8	283,045	479,749	2,621,210	624,697	Railroad, bridge, and culvert.....	7	323,011	1,080,043	6,173,303	2,109,463
Other classes ¹	8					Other classes ¹	8	283,045	479,749	2,621,210	624,697
Subcontractors.....	92	144,873	594,920	11,903,540	3,642,306	Subcontractors.....	92	144,873	594,920	11,903,540	3,642,306
Concreting.....	0	31,282	85,000	1,480,676	539,606	Concreting.....	0	31,282	85,000	1,480,676	539,606
Electrical.....	16	5,322	20,840	1,034,296	306,780	Electrical.....	16	5,322	20,840	1,034,296	306,780
Heating and plumbing.....	26	18,368	107,680	4,821,419	1,194,185	Heating and plumbing.....	26	18,368	107,680	4,821,419	1,194,185
Heating and piping ²	10	3,510	34,992	2,167,054	576,486	Heating and piping ²	10	3,510	34,992	2,167,054	576,486
Plumbing.....	0	10,260	47,828	1,977,804	443,816	Plumbing.....	0	10,260	47,828	1,977,804	443,816
Plumbing and heating combined.....	10	4,598	25,960	686,563	168,883	Plumbing and heating combined.....	10	4,598	25,960	686,563	168,883

See footnotes at end of table.

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

CLASSIFICATION OF ESTABLISHMENTS AND PERCENTAGE OF EQUIPMENT OWNED	Establishments reporting	EQUIPMENT		Value of construction business reported	Wages paid	CLASSIFICATION OF ESTABLISHMENTS AND PERCENTAGE OF EQUIPMENT OWNED	Establishments reporting	EQUIPMENT		Value of construction business reported	Wages paid
		Purchased during the year	Inventory value at end of year					Purchased during the year	Inventory value at end of year		
KANSAS CITY—Contd.						ST. LOUIS—Continued.					
<i>Classification of establishments—Continued</i>						<i>Classification of establishments—Continued</i>					
Subcontractors—Continued.						General contractors—Contd.					
Painting and decorating	4	\$4,450	\$19,783	\$463,536	\$297,226	Sewer, gas, water, conduit	5	\$299,120	\$241,905	\$1,471,754	\$429,647
Plastering and lathing	5	3,095	34,500	606,321	262,322	Levee ⁸	3	143,637	583,081	1,596,081	539,056
Roofing and sheet-metal work	16	8,379	61,222	1,061,873	263,670	Railroad	3	25,874	176,836	1,465,710	759,889
Roofing	10	8,163	33,848	661,065	124,147	Other classes ⁹	3	113,086	263,693	10,962,139	2,068,662
Sheet-metal work	6	216	27,374	400,303	139,423	Subcontractors	196	476,356	1,240,904	24,727,046	7,602,827
Marble and tiling	8	3,618	27,295	591,392	179,322	Carpentering and wood flooring	3	151	4,293	268,512	66,305
Metal work, n. e. s. ⁶	4	2,010	10,750	440,552	63,120	Concreting	12	37,818	70,341	2,208,901	735,884
Other classes ⁷	7	67,749	227,950	1,403,575	546,216	Electrical	32	17,408	74,488	2,943,736	1,160,467
<i>Percentage of equipment owned</i>						<i>Percentage of equipment owned</i>					
General contractors ⁴	90	854,037	2,520,016	20,721,714	8,083,501	Heating and plumbing	55	22,307	124,051	5,870,531	1,616,721
None	12			2,143,095	474,669	Heating and piping ¹⁰	21	9,504	45,393	3,162,770	645,889
1% to 25%	5	1,441	2,720	1,622,678	335,031	Plumbing	34	13,303	78,668	3,162,770	970,832
26% to 50%	4	3,041	12,539	796,035	169,134	Masonry	10	312,126	63,371	2,789,977	871,432
51% to 75%	2	17,720	25,220	819,677	105,066	Painting and decorating ¹¹	11	3,900	50,398	1,437,573	627,139
76% to 99%	19	331,009	902,190	14,309,778	4,244,420	Plastering and lathing	4	609	3,251	236,062	124,984
100%	47	500,826	1,575,632	9,070,239	2,690,181	Roofing and sheet-metal work	18	7,386	61,643	1,072,932	284,431
Not reported	1		1,815	60,212	15,000	Roofing	12	5,651	28,343	765,946	205,907
Subcontractors	92	144,873	594,920	11,903,540	3,642,306	Sheet-metal work	6	1,735	33,300	307,036	78,674
None	2			120,020	20,991	Steel erection	6	9,609	76,010	1,277,508	196,888
1% to 25%						Stone work	4	5,173	33,053	842,650	189,671
26% to 50%	1		28,297	87,797	28,567	Marble and tiling	17	5,075	53,778	1,679,190	517,336
51% to 75%	6	10,906	35,206	1,300,458	465,711	Excavating and grading	10	36,799	355,508	603,390	376,663
76% to 99%	81	133,967	523,966	10,255,321	3,037,848	Ornamental iron work ¹²	6	8,294	152,594	1,969,227	404,607
100%	2		7,361	139,944	20,189	Metal work, n. e. s.	9	8,611	58,219	1,227,407	294,909
Not reported						<i>Percentage of equipment owned</i>					
ST. LOUIS	341	1,634,463	4,732,043	86,111,180	18,816,567	General contractors ⁴	145	1,158,107	3,491,139	61,383,534	11,213,740
<i>Classification of establishments</i>						None	10			1,093,298	66,604
Operative builders	12	1,455	10,272	2,473,147	211,682	1% to 25%	1	550	2,672	1,021,779	67,187
General contractors	133	1,156,652	3,480,807	58,910,387	11,002,058	26% to 50%	2		14,000	180,336	18,847
Building	80	238,249	944,463	35,269,028	5,177,552	51% to 75%	6	16,557	87,900	1,968,893	636,049
Building not specialized	57	225,588	855,580	29,119,873	4,269,544	76% to 99%	26	542,003	852,860	13,468,354	2,726,951
Commercial building only	8	7,589	39,046	2,094,419	304,772	100%	90	598,792	2,526,237	42,094,099	7,592,222
Residential building only	15	5,072	49,231	3,455,336	603,236	Not reported	4	205	8,480	1,556,721	55,880
Highway	0	48,727	133,561	1,209,600	273,943	Subcontractors	190	476,356	1,240,904	24,727,046	7,602,827
Bridge and culvert	6	43,608	296,112	2,154,873	800,323	None	0			530,581	166,134
Grading	7	54,850	244,939	692,045	205,059	1% to 25%	1	300	1,500	41,063	19,418
Street paving	20	188,601	596,277	4,058,008	646,527	26% to 50%	2	2,500	17,172	110,726	42,293
						51% to 75%	12	55,942	186,859	3,332,232	1,210,436
						76% to 99%	164	410,149	1,008,522	19,716,372	5,950,166
						100%	11	7,465	26,851	996,622	214,360
						Not reported					

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 elevator construction; grading; sewer, gas, water, and conduit; and flooring, n. e. s.
⁴ Includes operative builders.
⁵ 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.
⁶ Includes steel erection and ornamental iron.
⁷ Includes glass and glazing; excavating; bridge and culvert; sewer, gas, water, and conduit; and railroad.
⁸ Includes dredging, river and harbor, etc.
⁹ Includes central station, light and power plant; and oil and natural-gas pipe line
¹⁰ Includes pipe covering and plumbing and heating combined.
¹¹ Includes glass and glazing; and flooring, n. e. s.
¹² Includes elevator construction.

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

CLASSIFICATION OF ESTABLISHMENTS AND LENGTH OF WORKING WEEK	Establishments reporting	NUMBER EMPLOYED ON 15TH DAY OF THE MONTH OR NEAREST REPRESENTATIVE DAY—												Wages paid during year
		January	February	March	April	May	June	July	August	September	October	November	December	
MISSOURI	703	14,799	15,624	19,938	22,640	22,445	25,037	27,830	28,803	28,293	26,006	22,977	17,069	\$35,513,174
<i>Classification of establishments</i>														
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	302	8,858	9,805	13,085	14,907	14,888	17,299	19,397	20,118	19,615	18,110	15,669	11,529	20,680,776
Building	171	3,913	4,546	6,228	7,261	5,803	6,920	7,925	7,643	6,800	6,048	5,010	4,656	9,612,081
Building not specialized	120	3,304	3,935	5,440	6,357	4,945	5,655	6,734	6,471	5,650	5,017	4,037	3,873	8,112,316
Commercial building only	18	243	293	351	369	420	598	540	601	483	532	565	468	716,620
Residential building only	24	276	348	428	535	438	667	651	571	667	499	408	315	783,145
Highway	43	539	633	1,024	1,490	2,077	2,553	3,057	3,068	3,332	2,814	2,127	1,117	2,161,722
Bridge and culvert	12	746	599	722	795	1,060	1,252	1,491	1,326	2,130	2,081	1,933	1,357	1,971,618
Grading	12	77	93	140	323	397	558	496	466	366	292	268	164	341,450
Street paving	32	97	118	206	397	550	818	1,022	1,182	1,399	1,178	967	401	852,904
Sewer, gas, water, conduit	8	437	488	444	471	658	827	1,156	946	882	909	1,168	993	721,623
Dredging, river, harbor, etc.	3	176	269	434	655	862	1,005	1,191	1,438	1,541	1,552	1,587	1,010	620,100
Levee	3	111	111	67	52	48	44	71	135	145	138	138	129	139,212
Railroad	6	507	455	631	1,310	1,911	1,929	1,923	2,320	2,216	2,050	1,476	1,031	1,871,409
Central station, light and power plant	5	462	466	508	635	538	647	594	621	449	552	491	482	855,800
Other classes ¹	5	1,793	2,027	2,683	1,618	984	746	471	573	355	496	504	189	1,523,077

See footnotes at end of table.

CONSTRUCTION—MISSOURI

691

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

CLASSIFICATION OF ESTABLISHMENTS AND LENGTH OF WORKING WEEK	Establishments reporting	NUMBER EMPLOYED ON 15TH DAY OF THE MONTH OR NEAREST REPRESENTATIVE DAY—												Wages paid during year
		January	February	March	April	May	June	July	August	September	October	November	December	
		MISSOURI—Continued.												
<i>Classification of establishments—Contd.</i>														
Subcontractors.....	371	5,467	5,265	5,866	6,509	6,320	6,667	7,496	7,584	7,443	6,963	6,485	5,473	\$13,145,228
Carpentering and wood flooring.....	5	28	32	42	50	34	33	34	63	39	42	45	29	106,418
Concreting.....	23	865	685	695	921	815	909	1,014	1,153	1,100	1,086	993	783	1,518,866
Electrical.....	68	560	525	582	647	713	647	745	756	764	744	644	578	1,662,227
Elevator construction.....	3	153	152	159	159	151	136	143	145	141	138	139	153	371,015
Heating and plumbing.....	118	1,299	1,206	1,297	1,469	1,384	1,511	1,745	1,754	1,671	1,638	1,583	1,352	3,371,172
Heating and piping ²	36	577	456	492	470	519	484	602	655	609	606	711	591	1,258,482
Plumbing.....	58	551	581	646	804	675	800	921	854	819	783	636	557	1,747,255
Plumbing and heating combined.....	24	171	169	189	195	190	227	222	245	243	249	236	204	366,435
Masonry.....	12	272	303	412	407	357	388	582	546	502	453	341	314	983,148
Painting and decorating.....	17	291	243	344	420	425	388	432	429	424	410	403	282	1,016,080
Glass and glazing.....	4	83	88	92	99	108	113	111	112	107	100	99	98	158,516
Plastering and lathing.....	10	159	145	164	195	150	208	214	197	211	209	210	160	407,922
Roofing and sheet-metal work.....	44	289	288	363	407	411	446	432	421	455	442	412	331	710,754
Roofing.....	29	176	174	242	249	265	297	280	270	290	284	266	192	416,360
Sheet-metal work.....	15	113	114	121	158	146	149	152	151	165	158	140	139	294,394
Steel erection.....	4	48	80	81	131	35	40	94	90	117	82	74	64	190,708
Stone work.....	4	76	79	113	95	99	101	108	111	114	84	83	70	189,671
Marble and tiling.....	33	358	335	404	397	425	395	418	448	454	444	388	362	876,387
Excavating.....	11	244	308	375	335	403	544	514	501	459	330	283	212	450,286
Ornamental iron work.....	4	33	41	32	41	26	34	39	30	34	36	28	32	61,028
Grading.....	3	28	34	40	43	42	44	50	50	51	42	36	37	30,849
Railroad, bridge and culvert.....	3	281	287	282	266	306	332	442	393	386	349	370	286	443,795
Metal work, n. e. s. ⁵	12	145	133	144	170	156	154	174	173	166	170	174	158	330,228
Other classes ⁷	3	255	301	245	257	271	244	205	203	188	164	180	177	265,559
<i>Length of working week</i>														
General contractors ⁴	332	9,332	10,259	13,970	16,081	16,125	18,370	20,334	21,219	20,850	19,043	16,492	12,196	22,367,946
40-hour, 5-day week.....	77	1,900	1,996	2,808	2,792	1,696	2,105	2,832	2,791	2,593	2,233	2,115	2,264	4,362,118
45-hour, 5-day week.....														
50-hour, 5-day week.....														
All other 5-day week.....														
44-hour, 5½-day week.....	79	1,567	1,026	2,197	2,660	2,473	2,770	2,951	3,080	3,030	2,585	2,242	1,815	4,708,972
49½-hour, 5½-day week.....	4	63	60	70	76	60	88	98	85	93	89	83	59	128,874
55-hour, 5½-day week.....	4	250	313	207	245	425	587	793	678	570	580	698	586	492,800
All other 5½-day week.....	10	51	51	104	115	170	231	370	440	483	253	184	115	299,432
48-hour, 6-day week.....	42	1,617	1,893	2,587	3,080	3,420	3,900	3,943	4,370	4,407	4,369	3,883	2,949	4,545,904
54-hour, 6-day week.....	35	598	601	787	1,194	1,407	1,849	2,368	2,206	2,347	2,081	1,721	1,028	1,066,739
60-hour, 6-day week.....	62	1,361	1,549	2,263	3,775	4,792	5,170	5,026	6,059	6,058	5,507	4,347	2,636	4,696,698
All other 6-day week.....	8	42	61	105	182	232	230	200	245	250	178	85	65	241,692
All other not designated.....	6	1,837	2,112	2,799	1,819	1,281	1,169	819	930	689	827	949	690	1,704,306
Not reported.....	5	46	27	43	113	169	265	276	320	300	281	187	92	182,221
Subcontractors.....	371	5,467	5,265	5,866	6,509	6,320	6,667	7,496	7,584	7,443	6,963	6,485	5,473	13,145,228
40-hour, 5-day week.....	139	1,806	1,659	1,872	2,225	1,860	2,036	2,528	2,645	2,568	2,332	2,138	1,777	5,471,218
45-hour, 5-day week.....														
50-hour, 5-day week.....														
All other 5-day week.....	1	9	8	8	3	3	13	14	12	11	10	16	16	29,678
44-hour, 5½-day week.....	162	2,394	2,207	2,539	2,789	2,792	2,703	3,058	2,990	2,966	2,931	2,790	2,381	6,534,452
49½-hour, 5½-day week.....	1	8	10	8	8	8	7	6	6	6	5	6	6	9,336
55-hour, 5½-day week.....	1	60	71	86	95	76	75	70	75	85	74	6	55	99,889
All other 5½-day week.....	8	84	87	102	106	111	109	124	120	129	140	117	116	181,300
48-hour, 6-day week.....	24	167	171	182	230	233	233	269	261	283	260	229	204	347,807
54-hour, 6-day week.....	13	155	208	255	222	205	377	390	458	377	336	284	284	397,254
60-hour, 6-day week.....	9	182	198	211	250	316	384	341	387	313	244	193	132	248,471
All other 6-day week.....	5	205	204	218	160	103	167	290	305	301	258	254	181	209,850
All other not designated.....	4	317	381	340	393	439	411	853	297	292	268	232	273	406,464
Not reported.....	4	80	61	55	62	64	40	47	54	63	64	49	46	159,719
<i>KANSAS CITY</i>														
Operative builders.....	181	4,626	4,623	5,767	7,364	8,375	9,503	9,645	10,097	10,009	9,396	8,455	6,492	11,925,343
<i>Classification of establishments</i>														
Operative builders.....	18	369	352	652	843	984	865	728	856	1,007	785	726	592	1,369,088
General contractors.....	73	2,309	2,571	3,353	4,439	5,187	6,410	6,574	6,969	6,803	6,334	5,512	4,010	6,617,944
Building.....	39	1,252	1,431	1,779	2,239	2,106	2,690	2,600	2,640	2,407	2,170	1,614	1,458	3,048,490
Building not specialized.....	28	1,157	1,309	1,632	1,996	1,758	2,043	1,977	2,083	1,851	1,606	1,074	1,015	2,408,731
Commercial building only.....	7	47	43	89	163	240	404	208	357	255	320	352	270	388,082
Residential building only.....	4	48	70	58	80	103	243	255	200	301	238	188	173	256,677
Highway.....	13	57	64	211	357	494	723	800	855	998	864	612	163	695,418
Grading.....	3	12	12	36	63	150	316	247	202	134	131	101	89	116,500
Street paving.....	4	28	19	42	48	45	79	40	40	77	66	114	84	119,675
Railroad, bridge, and culvert.....	6	725	714	886	1,141	1,003	1,715	1,820	2,104	2,002	1,983	1,839	1,333	2,013,104
Other classes ⁸	8	316	331	399	591	759	888	1,098	1,119	1,095	1,120	1,232	903	624,697
Subcontractors.....	100	1,866	1,700	1,752	2,072	2,204	2,228	2,843	2,272	2,199	2,277	2,217	1,800	3,838,311
Concreting.....	6	371	261	246	350	441	373	383	418	336	407	328	303	639,606
Electrical.....	16	89	94	95	112	134	133	158	177	175	161	152	135	285,383
Heating and plumbing.....	27	627	479	528	608	591	599	706	701	660	695	662	568	1,214,800
Heating and piping ²	11	321	244	202	273	298	255	312	323	297	291	372	323	594,299
Plumbing.....	7	149	172	206	265	227	267	319	277	267	271	197	158	470,673
Plumbing and heating combined.....	9	57	63	60	68	66	77	75	75	96	103	93	87	149,328
Painting and decorating.....	6	166	116	124	155	141	137	159	171	157	179	215	222	382,387
Glass and glazing.....	3	23	24	22	24	31	32	31	32	31	33	34	31	62,788
Plastering and lathing.....	5	93	76	98	125	100	148	138	112	137	141	156	108	262,322
Roofing and sheet-metal work.....	18	116	105	141	150	158	172	187	150	162	173	162	117	277,116
Roofing.....	12	73	64	98	90	108	119	129	80	99	114	104	66	187,668
Sheet-metal work.....	6	43	41											

CONSTRUCTION—MISSOURI

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

CLASSIFICATION OF ESTABLISHMENTS AND LENGTH OF WORKING WEEK	Establishments reporting	NUMBER EMPLOYED ON 15TH DAY OF THE MONTH OR NEAREST REPRESENTATIVE DAY—												Wages paid during year
		January	February	March	April	May	June	July	August	September	October	November	December	
KANSAS CITY—Continued.														
<i>Length of working week</i>														
General contractors ⁴	91	2,769	2,023	4,005	5,282	6,171	7,276	7,302	7,826	7,810	7,119	6,238	4,002	\$7,987,032
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.....	42	1,053	949	1,136	1,504	1,668	1,897	1,803	1,999	2,086	1,872	1,690	1,365	2,442,387
49½-hour, 5½-day week.....	3	63	50	56	59	54	73	81	70	83	76	67	59	113,674
55-hour, 5½-day week.....														
All other 5½-day week.....	1	14	19	21	16	15	5	12	10	11	6	4	7	10,000
48-hour, 6-day week.....	23	1,084	1,292	1,890	2,288	2,558	3,090	3,030	3,424	3,404	3,374	3,033	2,329	3,416,226
54-hour, 6-day week.....	5	90	83	125	144	168	166	239	199	207	150	144	70	211,511
60-hour, 6-day week.....	12	387	456	660	1,070	1,379	1,615	1,702	1,704	1,708	1,390	1,126	637	1,672,398
All other 6-day week.....														
All other not designated.....	3	35	60	100	145	260	380	300	240	152	101	87	70	143,072
Not reported.....	2	33	14	17	52	69	140	135	179	169	150	81	59	78,765
Subcontractors.....	100	1,866	1,700	1,762	2,072	2,204	2,228	2,343	2,272	2,199	2,277	2,217	1,890	3,838,311
40-hour, 5-day week.....	1	30	35	26	35	34	32	32	17	10	21	21	12	59,959
45-hour, 5-day week.....														
50-hour, 5-day week.....														
All other 5-day week.....														
44-hour, 5½-day week.....	82	1,415	1,187	1,271	1,521	1,530	1,545	1,753	1,694	1,628	1,732	1,721	1,401	3,127,716
49½-hour, 5½-day week.....	1	8	10	8	8	8	9	7	6	6	5	6	8	9,336
55-hour, 5½-day week.....														
All other 5½-day week.....	1	13	11	15	25	27	21	20	24	31	44	29	34	52,248
48-hour, 6-day week.....	6	24	24	27	32	32	43	52	39	52	41	36	33	44,548
54-hour, 6-day week.....	3	38	25	28	22	42	61	43	87	82	65	47	49	79,496
60-hour, 6-day week.....	2	25	32	40	70	92	110	78	105	91	102	76	20	55,558
All other 6-day week.....	1			2	2	1	2	4	11	9	7	6	4	10,000
All other not designated.....	3	813	376	335	357	432	405	345	289	284	260	275	269	399,450
Not reported.....														
ST. LOUIS	346	8,332	8,576	10,868	11,047	9,685	10,758	12,508	13,281	13,121	11,945	10,688	8,539	18,816,798
<i>Classification of establishments</i>														
Operative builders.....	11	90	87	159	202	174	128	133	171	151	92	67	61	211,682
General contractors.....	131	5,326	5,629	7,376	7,224	6,240	7,073	8,341	8,925	8,804	8,206	7,336	5,699	10,678,587
Building.....	81	2,185	2,267	3,141	3,151	2,005	2,407	3,202	3,109	2,920	2,516	2,360	2,474	4,840,523
Building not specialized.....	59	1,793	1,829	2,579	2,579	1,576	1,884	2,625	2,584	2,427	2,126	1,996	2,164	4,113,234
Commercial building only.....	10	196	220	262	206	180	194	272	244	228	206	213	198	328,533
Residential building only.....	12	196	218	300	366	249	320	305	281	265	184	151	112	407,751
Highway.....	6	44	44	72	183	803	394	466	442	400	267	200	85	273,943
Bridge and culvert.....	6	248	195	257	249	337	532	744	856	1,088	833	656	380	890,823
Grading.....	5	53	64	67	108	116	135	132	155	126	73	87	54	155,744
Street paving.....	10	55	73	119	255	393	502	783	883	1,102	896	712	273	606,527
Sewer, gas, water, conduit.....	5	305	382	303	336	501	681	939	804	755	780	1,061	895	534,420
Levee.....	3	189	210	287	322	304	385	488	736	837	830	708	382	530,056
Railroad.....	3	156	41	97	569	852	746	710	1,035	1,008	1,143	738	553	759,889
Other classes ⁵	8	2,091	2,353	3,033	1,991	1,339	1,201	877	905	628	868	814	573	2,068,662
Subcontractors.....	204	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
Carpentering and wood flooring.....	3	21	19	29	33	22	20	16	47	26	30	29	10	86,305
Concreting.....	12	410	351	367	480	286	439	521	593	658	551	526	337	854,226
Electrical.....	36	412	379	432	473	517	450	501	492	514	499	417	384	1,252,679
Elevator construction.....	3	153	152	159	159	151	136	143	145	141	138	139	153	371,015
Heating and plumbing.....	57	507	523	540	620	545	639	746	743	704	670	645	561	1,732,698
Heating and piping ¹⁰	22	261	215	204	202	218	226	281	313	293	286	318	262	670,889
Plumbing.....	35	306	308	336	418	327	413	465	430	411	384	327	299	1,061,809
Masonry.....	9	272	270	372	362	301	323	493	483	432	387	295	293	896,109
Painting and decorating ¹¹	10	147	143	232	259	267	263	270	287	260	205	184	152	590,554
Plastering and lathing.....	5	66	69	66	70	59	60	76	85	74	68	64	55	145,000
Roofing and sheet-metal work.....	19	121	127	162	178	175	188	156	184	208	182	171	134	300,053
Roofing.....	13	84	88	121	131	130	146	119	147	157	136	125	93	221,479
Sheet-metal work.....	6	37	39	41	47	45	42	37	37	51	46	46	41	78,574
Steel erection.....	3	33	62	65	113	30	30	83	82	95	79	68	56	163,788
Stone work.....	4	76	79	113	95	99	101	108	111	114	84	83	70	189,671
Marble and tiling.....	20	244	248	303	279	309	280	274	299	313	299	269	234	621,631
Excavating and grading.....	10	223	281	332	299	343	454	446	436	382	258	221	183	376,653
Ornamental iron work.....	3	25	31	24	33	18	25	32	33	28	31	22	24	52,262
Metal work, n. e. s.....	10	141	126	137	163	149	147	167	165	158	166	170	154	313,406
<i>Length of working week</i>														
General contractors ⁴	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	10,890,269
40-hour, 5-day week.....	73	1,893	1,988	2,797	2,780	1,675	2,080	2,800	2,765	2,535	2,213	2,107	2,262	4,334,627
45-hour, 5-day week.....														
50-hour, 5-day week.....														
All other 5-day week.....														
44-hour, 5½-day week.....	13	329	319	401	465	366	334	378	395	422	307	230	176	611,656
49½-hour, 5½-day week.....														
55-hour, 5½-day week.....	2	223	286	180	220	385	535	734	632	531	535	662	557	412,667
All other 5½-day week.....	6	31	28	48	56	109	178	299	391	445	232	167	70	249,958
48-hour, 6-day week.....	4	359	374	414	415	444	524	517	438	410	463	430	392	658,766
54-hour, 6-day week.....	19	353	355	431	621	725	1,032	1,379	1,429	1,736	1,476	1,181	616	1,237,466
60-hour, 6-day week.....	15	430	329	569	1,131	1,657	1,655	1,806	2,320	2,365	2,399	1,814	1,026	1,716,334
All other 6-day week.....	6	25	31	50	133	121	130	149	148	152	77	59	43	176,964
All other not designated.....	4	1,772	2,005	2,644	1,604	931	682	411	577	409	595	752	580	1,491,741
Not reported.....	1													2,100

See footnotes at end of table.

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

CLASSIFICATION OF ESTABLISHMENTS AND LENGTH OF WORKING WEEK	Estab-lish-ments reporting	NUMBER EMPLOYED ON 15TH DAY OF THE MONTH OR NEAREST REPRESENTATIVE DAY—												Wages paid during year
		Janu-ary	Febru-ary	March	April	May	June	July	August	Septem-ber	Octo-ber	Novem-ber	Decem-ber	
ST. LOUIS—Continued.														
<i>Length of working week—Continued</i>														
Subcontractors.....	204	2,916	2,860	3,333	3,621	3,271	3,555	4,032	4,185	4,106	3,647	3,233	2,809	\$7,926,520
40-hour, 5-day week.....	128	1,728	1,567	1,780	2,115	1,745	1,970	2,399	2,529	2,454	2,238	2,047	1,722	5,230,080
45-hour, 5-day week.....														
50-hour, 5-day week.....														
All other 5-day week.....	1	0	8	3	3	8	13	14	12	11	16	16	16	26,678
44-hour, 5½-day week.....	52	761	820	1,083	1,005	981	943	976	993	1,036	912	803	698	1,942,865
49½-hour, 5½-day week.....														
55-hour, 5½-day week.....	1	60	71	86	95	76	75	76	75	85	73	66	55	99,089
All other 5½-day week.....	5	62	65	66	69	72	75	80	80	79	73	68	60	106,309
48-hour, 6-day week.....	4	31	37	34	46	31	28	33	36	41	37	35	34	60,130
54-hour, 6-day week.....	4	53	95	133	98	137	216	219	219	217	170	139	60	145,276
60-hour, 6-day week.....	3	118	124	115	123	162	179	175	165	111	87	36	77	129,371
All other 6-day week.....	2	14	12	23	15	20	21	14	20	18	23	24	26	34,003
All other not designated.....														
Not reported.....	4	80	61	55	52	54	40	47	54	53	64	49	46	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 operative builders.
 5 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 steel erection; and ornamental iron.
 7 Includes excavating; bridge and culvert; sewer, gas, water and conduit; railroad; and power plant.
 8 Includes dredging, river and harbor, etc.
 9 Includes central station, light and power plant; and oil and natural gas pipe line.
 10 Includes pipe covering; and plumbing and heating combined.
 11 Includes glass and glazing; and flooring, n. e. s.

TABLE 8.—EXPENDITURES OF REPORTING ESTABLISHMENTS: 1929

CLASSIFICATION OF ESTABLISHMENTS	Estab-lish-ments reporting	Value of construction business reported	PRINCIPAL ITEMS OF EXPENDITURE			OTHER ITEMS OF EXPENDITURE							
			Subcon-tract work let	Wages paid	Cost of materials	Salaries		Rent for		Interest	Contract bond pre-miums	Compensation and liability insur-ance pre-miums	All other overhead expenses
						Proprietors and firm members	Em-ployees	Equip-ment	Offices, etc.				
MISSOURI.....	676	\$141,088,855	\$30,435,000	\$34,107,473	\$48,469,149	\$670,147	\$7,408,452	\$472,943	\$535,729	\$507,503	\$634,416	\$1,391,751	\$7,747,072
Operative builders.....	28	6,591,832	2,860,000	1,144,944	1,595,356	39,035	223,552	3,614	20,463	114,904	6,000	34,332	110,226
General contractors.....	235	92,906,039	26,307,000	20,250,141	20,602,833	223,221	4,202,773	312,833	246,448	258,744	596,270	929,218	5,004,823
Building.....	165	53,805,238	23,727,000	5,571,503	13,490,621	118,225	2,180,378	36,250	137,985	95,830	226,568	413,455	1,300,294
Building not specialized.....	123	44,218,860	20,504,000	7,632,723	10,047,333	95,383	1,759,257	21,068	109,233	73,241	216,460	341,499	1,110,129
Commercial building only.....	17	4,230,430	1,005,000	677,775	2,041,477	7,680	211,801	4,695	11,988	4,182	5,717	37,711	53,985
Residential building only.....	25	5,356,968	2,218,000	955,005	1,410,311	15,162	209,320	10,493	16,714	18,407	4,385	34,248	136,179
Highway.....	35	6,727,170	569,000	1,950,684	2,210,468	79,450	380,450	87,083	21,108	53,441	87,492	83,589	323,304
Bridge and culvert.....	13	5,645,457	33,000	2,085,060	1,780,223		40,604	28,600	10,750	21,338	63,584	97,818	327,900
Grading.....	12	950,531	232,000	19,870	19,870		70,804	1,785	2,607	5,068	4,487	11,047	198,309
Street paving.....	31	4,735,227	200,000	785,733	2,278,331	12,670	316,897	8,731	32,896	33,796	36,652	40,517	607,122
Sewer, gas, water, conduit.....	8	2,328,424		709,731	718,831	12,870	107,752	95,068	6,709	19,496	57,186	45,329	220,693
Dredging, river, harbor, etc.....	3	2,129,323	143,000	629,160	777,358		138,080	7,100	7,471	8,036	25,761	31,404	362,658
Railroad.....	8	4,677,973	135,000	1,871,409	1,832,470			10,372	11,150	13,105	28,504	116,568	651,260
Central station, light and power plant.....	5	3,473,544	20,000	855,800	1,768,849		81,055	25,768	5,402	46,128	18,279	209,364	
Other classes ¹	5	8,493,152	1,132,000	1,501,767	5,116,768		210,774	2,120	4,420	6,455	9,548	70,952	403,829
Subcontractors.....	303	41,580,984	1,262,000	12,712,388	17,370,960	407,891	2,982,127	156,496	318,818	133,855	42,146	428,201	2,632,023
Carpentering and wood flooring.....	6	446,234	10,000	116,873	202,141	16,084	32,990		3,874	670		2,587	32,230
Concreting.....	24	4,423,242	23,000	1,520,245	1,943,258	12,800	364,667	15,373	21,008	24,564	8,836	78,800	360,475
Electrical.....	59	4,728,787	1,000	1,685,558	1,902,203	59,188	415,937	1,545	47,153	12,957	5,956	46,324	279,482
Elevator construction.....	3	1,611,809		371,015	1,012,129		62,819		5,537		690	15,737	25,410
Heating and plumbing.....	115	12,798,828	517,000	3,324,769	6,419,443	127,612	743,690	2,122	88,024	40,119	15,495	68,530	634,420
Heating and piping ²	35	5,070,425	412,000	1,233,482	2,447,891	35,052	336,106	972	36,440	11,280	8,394	27,737	243,116
Plumbing.....	68	6,289,480	96,000	1,736,570	3,152,284	47,370	354,997	1,150	40,851	23,979	3,747	33,634	327,601
Plumbing and heating combined.....	22	1,438,917	9,000	355,717	819,268	45,190	52,666		11,633	4,860	3,384	7,159	63,643
Masonry.....	12	2,954,165	5,000	1,017,171	1,357,838	20,560	191,260	3,112	4,719	5,548	1,444	41,387	69,144
Painting and decorating.....	17	1,800,701	7,000	1,051,450	356,619	16,916	134,284	924	24,547	2,153	1,109	24,074	72,916
Glass and glazing.....	5	812,125		195,100	366,730	12,577	81,139		19,540			3,416	37,497
Plastering and lathing.....	10	885,038	13,000	407,922	236,397	31,716	51,119	300	7,230	2,876		10,306	24,881
Roofing and sheet-metal work.....	39	2,480,887	10,000	635,723	1,114,738	56,354	226,399	1,360	30,556	12,707	859	33,897	224,763
Roofing.....	24	1,511,982	10,000	341,320	689,070	23,177	155,888	1,360	16,599	5,049	680	23,615	134,205
Sheet-metal work.....	15	974,905		294,394	425,668	33,177	70,481		13,957	7,058	179	10,232	90,558
Steel erection.....	4	1,047,508	370,000	184,738	272,855		89,074	1,630	5,400	3,023		25,295	26,254
Stone work.....	3	713,761		143,770	446,470		31,615		4,248	794		9,788	16,610
Marble and tiling.....	32	2,791,324	12,000	853,932	1,144,096	19,914	243,615		18,250	9,685	276	15,076	232,532
Excavating.....	10	1,088,510	59,000	430,030	10,500		71,431	120,230	4,487	7,555	4,350	23,085	213,651
Ornamental iron work.....	5	549,813	5,000	119,003	282,075	3,380	51,289		12,572	2,034		5,634	37,890
Grading.....	3	122,757		30,849	80,849		4,954			480		1,556	54,873
Metal work, n. e. s.....	11	1,340,821		318,805	678,849	21,200	116,430	300	15,622	2,788	102	8,593	143,278
Other classes ³	5	928,674	230,000	305,429	174,020	9,600	72,460	600	5,085	4,211	3,023	14,166	95,717

See footnotes at end of table.

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

CLASSIFICATION OF ESTABLISHMENTS	Establishments reporting	PRINCIPAL ITEMS OF EXPENDITURE					OTHER ITEMS OF EXPENDITURE						
		Value of construction business reported	Subcontract work let	Wages paid	Cost of materials	Salaries		Rent for		Interest	Contract bond premiums	Compensation and liability insurance premiums	All other overhead expenses
						Proprietors and firm members	Employees	Equipment	Offices, etc.				
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, 302	\$441, 919	\$2, 263, 931
Operative builders.....	14	3, 317, 760	670, 000	844, 302	1, 215, 121	1, 040	101, 430	3, 354	11, 038	86, 894	0, 000	20, 016	40, 558
General contractors.....	71	23, 080, 018	4, 171, 000	6, 458, 455	8, 526, 106	101, 793	1, 215, 671	102, 827	65, 239	71, 597	154, 837	317, 088	1, 428, 113
Building.....	38	12, 280, 555	3, 842, 000	2, 839, 441	4, 006, 377	54, 293	589, 403	19, 170	34, 170	20, 401	29, 141	144, 082	277, 043
Building not specialized.....	28	9, 465, 620	2, 900, 000	2, 324, 569	3, 011, 278	36, 251	483, 579	7, 102	24, 840	17, 466	29, 141	115, 430	218, 857
Commercial building only.....	6	1, 412, 928	463, 000	358, 195	551, 601	4, 880	35, 112	2, 978	4, 170	2, 155	-----	17, 602	6, 961
Residential building.....	0	1, 402, 067	479, 000	259, 677	443, 498	13, 162	70, 712	9, 090	5, 100	780	-----	11, 050	51, 225
Highway.....	13	2, 515, 080	153, 000	695, 418	1, 000, 689	47, 500	122, 121	36, 302	9, 594	21, 178	32, 312	23, 527	237, 941
Street paving.....	4	560, 698	1, 000	119, 675	291, 344	-----	27, 990	4, 719	1, 260	300	-----	4, 804	6, 210
Railroad, bridge, and culvert.....	4	6, 173, 303	60, 000	2, 109, 463	2, 173, 988	-----	339, 267	32, 776	14, 520	9, 661	59, 487	114, 592	619, 128
Other classes ¹	7	2, 450, 432	100, 000	594, 458	1, 053, 708	-----	136, 890	9, 800	5, 695	20, 057	29, 093	28, 677	136, 830
Subcontractors.....	96	11, 828, 546	476, 000	3, 584, 680	4, 553, 800	140, 536	784, 296	38, 452	92, 943	40, 593	14, 465	104, 815	785, 250
Concreting.....	6	1, 450, 576	-----	539, 006	328, 266	5, 400	139, 808	3, 236	9, 323	9, 955	4, 239	25, 394	178, 163
Electrical.....	16	1, 022, 847	-----	302, 828	452, 073	20, 000	81, 266	693	13, 324	2, 899	712	5, 355	47, 603
Heating and plumbing.....	27	4, 969, 835	281, 000	1, 222, 358	2, 337, 126	33, 994	247, 260	-----	26, 942	11, 083	5, 316	25, 705	224, 391
Heating and piping ²	11	2, 272, 993	133, 000	594, 289	928, 893	8, 860	118, 237	-----	17, 493	5, 213	2, 592	12, 515	122, 782
Plumbing.....	4	2, 040, 609	40, 000	470, 673	1, 047, 910	5, 560	110, 286	-----	4, 088	3, 713	967	8, 930	77, 888
Plumbing and heating combined.....	9	656, 233	8, 000	157, 386	360, 323	19, 574	18, 737	-----	5, 361	2, 157	1, 757	4, 200	23, 721
Painting and decorating.....	5	558, 505	-----	342, 783	96, 272	7, 173	31, 833	-----	3, 013	316	-----	8, 251	16, 134
Glass and glazing.....	3	227, 217	-----	62, 783	104, 362	12, 577	4, 600	-----	5, 246	924	-----	904	17, 873
Roofing and sheet-metal work.....	6	606, 321	13, 000	292, 322	219, 131	19, 200	29, 854	300	5, 270	1, 066	-----	5, 860	17, 826
Plastering and lathing.....	16	1, 067, 540	2, 000	257, 231	508, 070	26, 623	93, 041	1, 360	12, 279	2, 543	-----	12, 299	84, 433
Roofing.....	6	666, 732	2, 000	117, 808	339, 525	5, 000	77, 326	1, 360	6, 379	2, 120	-----	8, 655	56, 606
Sheet-metal work.....	10	400, 808	-----	139, 423	171, 545	21, 623	15, 715	-----	5, 900	423	-----	3, 641	27, 767
Marble and tiling.....	10	10, 673	-----	214, 712	282, 688	5, 369	84, 769	-----	10, 321	6, 673	225	3, 632	54, 947
Other classes ³	8	1, 185, 032	230, 000	380, 057	224, 912	0, 600	71, 865	32, 863	7, 225	5, 079	3, 973	17, 418	143, 820
ST. LOUIS	347	\$7, 036, 892	\$2, 851, 000	\$19, 136, 952	\$28, 725, 564	\$266, 575	\$4, 631, 937	\$264, 575	\$53, 556	\$203, 620	\$362, 855	\$787, 410	\$4, 448, 165
Operative builders.....	11	2, 657, 072	1, 865, 000	199, 742	227, 485	37, 905	91, 122	260	4, 700	14, 960	-----	9, 410	62, 168
General contractors.....	131	58, 518, 063	20, 273, 000	10, 876, 060	17, 471, 099	38, 512	2, 516, 684	147, 791	162, 070	122, 536	347, 436	487, 554	2, 863, 398
Building.....	84	36, 137, 174	13, 421, 000	5, 240, 282	7, 573, 403	36, 012	1, 432, 358	9, 052	90, 267	47, 523	170, 804	222, 674	898, 844
Building not specialized.....	59	29, 831, 143	10, 293, 000	4, 317, 466	5, 323, 577	33, 212	1, 127, 951	6, 152	72, 135	32, 716	160, 702	131, 982	772, 844
Commercial building only.....	10	2, 840, 695	515, 000	319, 580	1, 489, 876	2, 800	176, 089	1, 709	7, 818	2, 027	6, 717	20, 000	47, 025
Residential building only.....	15	3, 455, 336	1, 613, 000	603, 236	759, 950	-----	127, 718	1, 191	10, 314	12, 780	4, 385	20, 686	78, 975
Highway.....	5	1, 004, 751	69, 000	215, 755	389, 804	-----	70, 170	1, 940	3, 106	10, 412	12, 749	12, 527	160, 729
Bridge and culvert.....	6	2, 154, 873	7, 000	890, 823	509, 470	-----	105, 005	7, 800	5, 504	15, 460	25, 892	34, 385	147, 745
Grading.....	7	692, 045	232, 000	205, 959	7, 879	-----	67, 994	685	2, 050	237	3, 114	8, 565	117, 804
Street paving.....	17	3, 374, 495	263, 000	527, 769	1, 556, 454	2, 500	251, 716	2, 662	28, 260	27, 689	24, 868	27, 760	453, 615
Sewer, gas, water, conduit.....	4	1, 436, 867	-----	505, 094	374, 294	-----	58, 750	88, 768	5, 505	10, 917	51, 415	31, 830	175, 022
Railroad.....	3	1, 495, 719	66, 000	769, 889	276, 333	-----	157, 042	6, 696	5, 738	0, 456	3, 075	62, 768	69, 669
Other classes ⁴	5	12, 282, 139	1, 215, 000	2, 530, 470	6, 786, 462	-----	322, 749	30, 888	11, 640	3, 892	50, 019	97, 030	839, 010
Subcontractors.....	205	25, 861, 757	713, 000	8, 061, 160	11, 026, 980	190, 068	2, 024, 131	116, 524	195, 786	72, 074	15, 419	290, 440	1, 522, 599
Carpentering and wood flooring.....	3	268, 512	10, 000	66, 305	112, 709	4, 680	30, 139	-----	3, 124	183	-----	1, 371	22, 909
Concreting.....	12	2, 529, 085	-----	848, 005	885, 831	5, 000	137, 859	11, 362	11, 100	11, 740	1, 123	43, 125	152, 046
Electrical.....	37	3, 334, 185	1, 000	1, 258, 565	1, 288, 451	24, 500	310, 303	852	30, 382	9, 373	4, 376	28, 687	203, 262
Elevator construction.....	3	1, 611, 809	-----	371, 015	1, 012, 129	-----	62, 819	-----	5, 537	-----	600	15, 737	25, 410
Heating and plumbing.....	50	6, 084, 356	283, 000	1, 690, 013	3, 105, 368	51, 877	436, 708	1, 377	46, 044	20, 808	5, 638	35, 180	290, 301
Heating and piping ⁵	21	2, 707, 761	229, 000	645, 889	1, 434, 704	21, 100	230, 917	972	18, 477	4, 797	4, 444	15, 099	110, 389
Plumbing.....	35	3, 376, 595	54, 000	1, 050, 124	1, 670, 664	30, 777	205, 851	405	27, 567	16, 011	1, 194	20, 081	179, 012
Masonry.....	10	2, 789, 977	3, 000	971, 432	1, 267, 197	20, 550	184, 629	3, 112	4, 719	4, 161	1, 360	38, 435	66, 192
Painting and decorating.....	12	1, 607, 878	7, 000	702, 113	475, 085	9, 743	176, 004	924	33, 562	1, 332	1, 050	15, 532	108, 909
Plastering and lathing.....	5	278, 717	-----	145, 000	67, 266	12, 510	21, 265	-----	1, 960	1, 810	-----	4, 446	7, 055
Roofing and sheet-metal work.....	18	1, 059, 486	8, 000	286, 300	418, 040	22, 077	110, 010	-----	13, 030	4, 092	605	18, 619	108, 993
Roofing.....	12	752, 450	8, 000	207, 726	300, 245	18, 177	67, 662	-----	9, 850	3, 329	530	14, 400	77, 539
Sheet-metal work.....	6	307, 036	-----	78, 574	117, 795	3, 900	42, 348	-----	3, 180	763	75	4, 210	31, 454
Steel erection.....	4	1, 047, 508	370, 000	134, 738	272, 855	-----	86, 074	1, 630	5, 400	3, 628	-----	25, 295	26, 254
Stone work.....	3	713, 761	-----	143, 770	446, 470	-----	31, 615	-----	4, 248	794	-----	9, 788	16, 610
Marble and tiling.....	19	1, 872, 533	12, 000	607, 220	779, 072	14, 545	145, 007	-----	7, 109	2, 866	51	10, 194	124, 179
Excavating and grading.....	9	862, 270	14, 000	356, 403	1, 500	-----	68, 385	96, 967	2, 927	6, 455	400	19, 983	192, 673
Ornamental iron.....	4	529, 139	5, 000	109, 667	270, 038	3, 380	47, 824	-----	11, 672	2, 034	-----	5, 455	35, 878
Metal work, n. e. s.....	10	1, 281, 541	-----	313, 465	624, 969	21, 200	110, 430	300	15, 472	2, 798	102	8, 593	141, 928

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 culvert; railroad; central station, light and power plant; flooring, miscellaneous, n. e. s.; and miscellaneous, n. e. s.

⁴ Includes grading; sewer, gas, water, and conduit; waterworks; dam and reservoir; dredging, river and harbor, etc.; and central station, light and power plant.

⁵ Includes excavating; 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.

⁷ Includes pipe covering; and plumbing and heating combined.

⁸ Includes glass and glazing; and flooring, n. e. s.

CONSTRUCTION—MISSOURI

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

KIND OF MATERIAL	COST OF MATERIALS REPORTED BY					KIND OF MATERIAL	COST OF MATERIALS REPORTED BY				
	All classes of establishments			General contractors ²	Subcontractors		All classes of establishments			General contractors ²	Subcontractors
	Amount	Per cent distribution	Per \$1,000 construction work done ¹				Amount	Per cent distribution	Per \$1,000 construction work done ¹		
MISSOURI					KANSAS CITY—Continued.						
All kinds of material.....	\$52,422,043		\$435.78	\$33,855,944	\$18,566,099	Distributed by kind—Continued.					
Distribution not reported.....	9,820,543	18.7		6,638,225	3,188,318	Lime.....	\$18,601	0.1	\$0.62	\$10,334	\$8,267
Distributed by kind.....	42,505,500	100.0		27,217,719	15,377,781	Plaster, etc.....	143,941	1.1	4.82	40,031	103,010
Sand, gravel, stone, slag, cinders, etc.....	4,200,745	9.9	43.04	3,742,024	404,721	Structural steel.....	604,018	5.5	23.25	543,917	150,101
Brick (face, common, fire, paving, etc.).....	1,432,061	3.4	14.06	912,690	520,271	Reinforcing steel.....	786,729	6.3	26.30	670,047	107,682
Tile (fireproofing).....	201,236	.6	2.87	138,135	123,101	Cast iron, miscellaneous, excluding pipe.....	18,311	.1	.61	18,311	
Tile, facing, terra cotta, floor and wall.....	720,915	1.7	7.47	288,844	441,071	Metal doors, windows, and trim.....	143,916	1.1	4.82	102,276	41,640
Concrete and cinder block.....	670,744	1.4	5.90	504,209	12,535	Metal and wire lath and furring.....	45,070	.4	1.51	18,863	26,207
Cut stone, granite, and marble.....	1,087,739	2.6	11.13	538,843	548,890	Ornamental metal work.....	37,331	.3	1.25	14,791	22,540
Riprap, rubble, etc.....	668,986	1.6	6.85	642,959	20,027	Lumber, rough and finished.....	1,382,841	11.0	46.33	1,301,217	81,624
Cement.....	2,722,512	6.4	27.80	2,379,160	343,362	Lath, shingles and shakes (wood).....	38,744	.3	1.13	312,301	1,073
Lime.....	87,101	.2	.89	49,600	37,501	Millwork.....	312,301	2.5	10.40	30,125	338,726
Plaster, etc.....	221,767	.5	2.27	111,403	110,354	Composition board.....	374,551	3.0	12.50	21,172	18,449
Structural steel.....	2,448,905	5.7	25.05	1,731,408	717,497	Waterproofing materials.....	39,021	.3	1.33	160,887	8,346
Reinforcing steel.....	2,028,462	4.8	20.75	1,675,173	353,289	Hardware, rough and finished.....	178,233	1.4	5.97	64,675	162,564
Cast iron, miscellaneous, excluding pipe.....	91,515	.2	.94	36,107	55,408	Paints, varnishes, and glass.....	227,439	1.8	7.02	122,882	509,763
Metal doors, windows, and trim.....	432,422	1.0	4.42	184,937	247,435	Roofing and sheet metal.....	632,645	5.0	21.10		
Metal and wire lath and furring.....	117,642	.3	1.20	40,553	77,089	Finished flooring, other than cement, wood, or tile.....	16,432	.1	.55	16,432	
Ornamental metal work.....	245,620	.6	2.51	27,416	218,204	Screens, shades, awnings, etc.....	66,709	.5	2.24	16,709	50,900
Lumber, rough and finished.....	3,088,219	7.3	31.59	2,840,984	247,235	Heating and ventilating equipment.....	645,764	5.1	21.63	54,852	590,902
Lath, shingles and shakes (wood).....	76,554	.2	.78	63,018	13,536	Plumbing and gas fitting equipment.....	999,277	8.0	33.48	103,405	895,872
Millwork.....	1,016,173	2.4	10.40	1,009,357	6,816	Electrical appliances and supplies.....	655,750	5.2	21.97	116,121	539,638
Composition board.....	453,363	1.1	4.64	90,930	362,424	Elevators, dumb-waiters, and equipment.....	278,744	2.2	9.34	278,744	
Waterproofing materials.....	321,541	.8	3.29	246,228	75,313	Pipe: Drain tile, vitrified, concrete, segment tile, corrugated.....	220,957	1.8	7.40	202,930	18,018
Hardware, rough and finished.....	470,157	1.1	4.81	449,692	20,465	Pipe: Cast-iron, sheet and tube steel, etc.....	77,526	.6	2.60	29,785	47,741
Paints, varnishes, and glass.....	783,165	1.8	8.01	105,976	677,189	Wire cable, guards, and fencing.....	37,254	.3	1.25	37,104	150
Roofing and sheet metal.....	1,280,978	3.0	13.10	261,392	1,019,586	Bituminous paving materials, tar, asphalt and oil.....	66,755	.8	3.24	91,785	5,000
Finished flooring, other than cement, wood or tile.....	178,210	.4	1.82	105,911	72,299	Wood piling and timber.....	344,275	2.7	11.53	314,275	30,000
Screens, shades, awnings, etc.....	89,583	.2	.92	31,933	57,650	Ready mixed concrete.....	232,825	1.9	7.80	212,741	20,084
Heating and ventilating equipment.....	2,020,540	6.2	26.87	462,920	2,163,011	Machinery.....	22,200	.2	.75	22,200	
Plumbing and gas fitting equipment.....	3,197,400	7.5	32.71	296,090	2,901,310	Freight, hauling or trucking to job.....	13,282	.1	.45	5,973	7,309
Electrical appliances and supplies.....	3,570,066	8.4	30.53	1,541,017	2,028,749	Cast forms, beads, etc.....	5,918	(3)	.20		5,918
Elevators, dumb-waiters, and equipment.....	1,240,582	2.9	12.69	281,127	959,455	Chemicals and chemical products.....	2,100	(3)	.07		2,100
Pipe: Drain tile, vitrified, concrete, segment tile, corrugated.....	421,381	1.0	4.31	353,802	67,579	Metal products, n. e. s. (including metal furniture).....	3,116	(3)	.11		3,116
Pipe: Cast-iron, sheet and tube steel, etc.....	4,020,989	9.5	41.20	3,927,737	90,202	Mineral products (non-metallic) n. e. s.....	10,911	.1	.37	10,911	
Wire cable, guards, and fencing.....	67,867	.2	.99	51,581	16,286	Sealing materials.....	550	(3)	.02		550
Bituminous paving materials, tar, asphalt and oil.....	425,550	1.0	4.35	400,728	24,822	Textiles and caulking materials.....	1,132	(3)	.04	532	600
Wood piling and timber.....	540,916	1.3	5.53	510,916	30,000	Miscellaneous.....	43,507	.3	1.46	36,953	6,554
Ready mixed concrete.....	423,918	1.0	4.34	361,436	62,482						
Machinery.....	495,431	1.2	5.07	495,431							
Freight, hauling or trucking to job.....	30,232	.1	.40	31,923	7,909						
Cast forms, beads, etc.....	5,918	(3)	.06		5,918						
Chemicals and chemical products.....	2,100	(3)	.02		2,100						
Metal products, n. e. s. (including metal furniture).....	170,094	.4	1.81	142,527	34,467						
Mineral products (non-metallic) n. e. s.....	58,832	.1	.60	23,074	35,758						
Sealing materials.....	550	(3)	(4)		550						
Textiles and caulking materials.....	5,849	(3)	.06	665	5,184						
Miscellaneous.....	150,574	.4	1.54	96,855	53,719						
KANSAS CITY					ST. LOUIS						
All kinds of material.....	15,733,407		421.10	10,831,670	4,901,737	All kinds of material.....	29,046,509		445.75	18,493,847	11,452,662
Distribution not reported.....	3,163,560	20.1		2,392,320	771,230	Distribution not reported.....	5,189,342	17.3		3,404,479	1,784,863
Distributed by kind.....	12,569,848	100.0		8,439,350	4,130,498	Distributed by kind.....	24,757,167	100.0		15,089,368	9,667,799
Sand, gravel, stone, slag, cinders, etc.....	1,270,348	10.2	42.86	1,189,174	90,174	Sand, gravel, stone, slag, cinders, etc.....	1,053,572	7.9	35.17	1,604,792	358,780
Brick (face, common, fire, paving, etc.).....	300,609	2.4	10.07	267,892	32,717	Brick (face, common, fire, paving, etc.).....	972,358	3.9	17.51	547,635	424,823
Tile (fireproofing).....	66,477	.6	2.23	66,477		Tile (fireproofing).....	187,882	3.0	3.38	64,781	123,101
Tile, facing, terra cotta, floor and wall.....	191,055	1.5	6.40	79,457	111,598	Tile, facing, terra cotta, floor, and wall.....	483,324	2.0	8.70	182,832	300,492
Concrete and cinder block.....	97,849	.8	3.28	96,476	1,373	Concrete and cinder block.....	308,330	1.5	6.63	361,924	6,412
Cut stone, granite, and marble.....	121,347	1.0	4.06	78,769	42,578	Cut stone, granite and marble.....	823,706	3.3	14.83	376,235	447,471
Riprap, rubble, etc.....	486,959	3.9	16.31	484,959	2,000	Riprap, rubble, etc.....	147,164	.6	2.66	123,137	24,027
Cement.....	1,181,539	9.4	39.58	1,136,225	45,314	Cement.....	1,123,297	4.5	20.22	845,515	277,782
						Lime.....	54,301	.2	.98	26,790	27,511
						Plaster, etc.....	54,645	.2	.99	48,201	6,444
						Structural steel.....	1,540,765	6.2	27.74	976,277	564,485
						Reinforcing steel.....	819,771	3.3	14.76	584,680	235,186
						Cast iron, miscellaneous, excluding pipe.....	65,241	.3	1.18	11,833	53,408
						Metal doors, windows, and trim.....	262,772	1.1	4.73	57,227	205,545
						Metal and wire lath and furring.....	64,468	.3	1.16	14,236	50,232
						Ornamental metal work.....	202,994	.8	3.66	10,440	192,554
						Lumber, rough and finished.....	1,272,406	5.1	22.91	1,140,887	131,519
						Lath, shingles and shakes (wood).....	36,151	.1	.65	23,688	12,463
						Millwork.....	512,691	2.1	9.23	505,876	6,816
						Composition board.....	65,980	.3	1.19	13,032	52,948
						Waterproofing materials.....	272,864	1.1	4.91	216,000	56,864
						Hardware, rough and finished.....	226,691	.9	4.08	218,222	8,469

See footnotes at end of table.

CONSTRUCTION—MISSOURI

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

KIND OF MATERIAL	COST OF MATERIALS REPORTED BY					KIND OF MATERIAL	COST OF MATERIALS REPORTED BY				
	All classes of establishments			General contractors ²	Sub-contractors		All classes of establishments			General contractors ²	Sub-contractors
	Amount	Per cent distribution	Per \$1,000 construction work done ¹				Amount	Per cent distribution	Per \$1,000 construction work done ¹		
ST. LOUIS—Continued						ST. LOUIS—Continued					
Distributed by kind—Continued.						Distributed by kind—Continued.					
Paints, varnishes, and glass.....	\$466,500	1.9	\$8.40	\$16,836	\$449,670	Pipe: Cast-iron, sheet and tube steel, etc. ³	\$3,885,922	15.7	\$69.96	\$3,860,103	\$25,819
Roofing and sheet metal.....	324,738	1.3	5.85	76,764	247,974	Wire cable, guards, and fencing.....	28,963	.1	.52	13,327	15,636
Finished flooring, other than cement, wood or tile.....	125,376	.5	2.26	53,477	71,899	Bituminous paving materials, tar asphalt and oil.....	255,491	1.0	4.60	235,669	19,822
Screens, shades, awnings, etc.....	18,828	.1	.34	11,178	7,650	Wood piling and timber.....	177,636	.7	3.20	177,636	—
Heating and ventilating equipment.....	1,038,241	6.6	29.50	359,987	1,243,254	Ready mixed concrete.....	100,031	.4	1.80	57,633	42,398
Plumbing and gas fitting equipment.....	1,691,283	6.8	30.45	170,616	1,520,667	Machinery.....	470,227	1.9	8.46	470,227	—
Electrical appliances and supplies ⁴	2,709,201	10.9	48.78	1,366,869	1,342,332	Freight, hauling or trucking to job.....	7,908	(5)	.14	7,908	—
Elevators, dumb-waiters, and equipment.....	961,295	3.9	17.31	1,840	959,455	Metal products, n. e. s. (including metal furniture).....	173,878	.7	3.13	142,527	31,351
Pipe: Drain tile, vitrified, concrete, segment tile, corrugated.....	92,946	.4	1.07	57,187	35,759	Mineral products (nonmetallic) n. e. s.....	47,921	.2	.80	12,163	35,758
						Toxiles and caulking materials.....	4,669	(5)	.08	85	4,584
						Miscellaneous.....	64,638	.3	1.16	23,201	41,437

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 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 appliances 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]

KIND OF MATERIAL AND CLASSIFICATION OF ESTABLISHMENTS	COST OF DESIGNATED MATERIAL					KIND OF MATERIAL AND CLASSIFICATION OF ESTABLISHMENTS	COST OF DESIGNATED MATERIAL					Value of construction business	Indicated per cent of all business done by own force ¹
	Cost of all materials distributed by kind	Per cent of		Value of construction business	Indicated per cent of all business done by own force ¹		Cost of all materials distributed by kind	Per cent of		Value of construction business	Indicated per cent of all business done by own force		
		Amount	Total cost					Cost of all distributed materials	Amount					Total cost	Cost of all distributed materials
MISSOURI						MISSOURI—Continued							
<i>Sand, gravel, stone, slag, cinders, etc.</i>						<i>Sand, gravel, stone, slag, cinders, etc.—Continued</i>							
All classes.....	\$42,595,500	\$4,206,745	100.0	9.9	\$116,236,674	78.8	Subcontractors—Continued.						
General contractors ²	\$27,217,719	3,742,024	89.0	13.7	\$80,333,778	71.4	Marble and tiling.....	\$776,446	\$78,724	1.9	10.1	\$1,987,269	99.6
Building.....	\$12,121,540	1,454,873	34.6	12.0	\$45,054,038	57.2	Bridge and culvert.....	37,240	32,856	(8)	37.7	331,821	94.9
Building not specialized ³	10,127,429	1,295,125	30.8	12.8	38,329,586	55.6	Power-plant work.....	41,155	1,510	(5)	3.7	137,924	87.7
Commercial building only.....	859,979	65,476	1.6	7.7	2,185,682	75.2	Metal work, n. e. s.....	669,474	2,000	(5)	.3	1,100,209	100.0
Residential building only.....	1,109,301	94,272	2.2	8.5	4,368,561	56.7	<i>Brick (face, common, fire, paving, etc.)</i>						
Highway.....	2,150,135	1,060,237	25.2	49.3	6,296,623	91.6	All classes.....	42,595,500	1,432,961	100.0	3.4	116,236,674	78.8
Bridge and culvert.....	1,730,589	210,742	5.0	12.2	5,517,266	99.4	General contractors ²	\$27,217,719	912,690	63.7	3.4	\$80,333,778	71.4
Grading.....	24,314	18,566	.4	76.4	312,712	80.8	Building.....	12,121,540	849,363	69.3	7.0	\$45,054,038	57.2
Street paving.....	1,845,681	628,420	14.9	34.0	4,014,897	95.2	Building not specialized ³	10,127,429	682,469	47.6	6.7	38,329,586	55.6
Sewer, gas, water, conduit.....	883,399	99,045	2.4	14.2	2,187,725	100.0	Commercial building only.....	859,979	62,404	5.1	8.6	2,185,682	75.2
Dam and reservoir.....	300,304	85,080	2.0	28.3	520,748	87.9	Manufacturing building only.....	—	—	—	—	—	—
Waterworks.....	72,878	3,000	.1	4.1	172,700	72.8	only.....	33,831	4,700	.3	13.9	170,219	73.4
Levee.....	9,667	2,914	.1	30.2	95,000	83.0	Residential building only.....	1,109,301	89,290	6.2	3.0	4,368,561	56.7
Railroad.....	975,180	167,643	4.0	17.2	2,725,195	97.1	Highway.....	2,150,135	19,276	1.3	9.0	6,296,623	91.6
Central station, light and power plant.....	1,752,849	138	(5)	(5)	3,427,069	99.4	Bridge and culvert.....	1,730,589	4,472	.3	3.3	5,517,266	99.4
Oil and natural gas pipe line.....	4,734,119	11,366	.3	.2	7,704,704	86.1	Grading.....	24,314	926	.1	3.8	312,712	80.8
Subcontractors.....	\$15,377,781	484,721	11.0	3.0	\$5,902,896	96.7	Street paving.....	1,845,681	10,845	.8	6.0	4,014,897	95.2
Carpentering and wood flooring.....	144,014	323	(5)	.2	333,339	97.8	Sewer, gas, water, conduit.....	698,710	10,435	.7	1.5	2,187,725	100.0
Concreting.....	255,471	6.1	28.9	—	3,269,792	99.5	Dam and reservoir.....	300,304	4,000	.8	1.3	520,748	87.9
Heating and plumbing.....	\$ 5,599,398	1,175	(5)	(5)	\$ 11,263,625	95.9	Central station, light and power plant.....	1,752,849	8,000	.6	.5	3,427,069	99.4
Heating and piping.....	1,680,278	25	(5)	(5)	3,090,242	91.0	Oil and natural gas pipe line.....	4,734,119	5,373	.4	1.1	7,704,704	86.1
Pipe covering.....	377,000	1,000	(5)	.3	1,216,000	93.0	Subcontractors.....	\$15,377,781	620,271	36.3	3.4	\$5,902,896	96.7
Plumbing.....	2,720,072	50	(5)	(5)	5,373,815	98.6	Heating and plumbing.....	\$ 5,599,398	325	(5)	(5)	\$ 11,263,625	95.9
Plumbing and heating combined.....	538,823	100	(5)	(5)	893,555	99.4	Heating and piping.....	1,680,278	100	(5)	(5)	3,090,242	91.0
Masonry.....	920,219	63,441	1.5	6.9	2,152,723	99.8	Plumbing.....	2,720,072	25	(5)	(5)	5,373,815	98.6
Plastering and lathing.....	282,968	7,358	1.2	2.6	855,695	98.5	Plumbing and heating combined.....	538,823	200	(5)	(5)	893,555	99.4
Roofing and sheet-metal work.....	\$ 1,178,001	5,564	.1	.5	\$ 2,681,151	98.7	Masonry.....	920,219	487,354	34.0	58.0	2,152,723	99.8
Roofing.....	745,909	5,564	.1	.7	1,694,246	97.9	Marble and tiling.....	776,446	13	(5)	(5)	1,987,269	99.6
Stone work.....	300,630	16,290	.4	4.5	637,331	100.0	Power plant work.....	41,155	32,579	2.3	79.2	137,924	87.7

See footnotes at end of table.

CONSTRUCTION—MISSOURI

697

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]

KIND OF MATERIAL AND CLASSIFICATION OF ESTABLISHMENTS	COST OF DESIGNATED MATERIAL				Value of construction business	Indicated per cent of all business done by own force ¹	KIND OF MATERIAL AND CLASSIFICATION OF ESTABLISHMENTS	COST OF DESIGNATED MATERIAL				Value of construction business	Indicated per cent of all business done by own force ¹
	Cost of all materials distributed by kind	Amount	Per cent of—					Cost of all materials distributed by kind	Amount	Per cent of—			
			Total cost	Cost of all distributed materials						Total cost	Cost of all distributed materials		
MISSOURI—Continued.						MISSOURI—Continued.							
<i>Tile, facing, terra cotta, floor and wall</i>						Cement—Continued							
All classes.....	\$42,595,500	\$729,915	100.0	1.7	\$116,236,674	78.8	General contractors—Con.						
General contractors ²	\$27,217,719	288,844	39.6	2.1	\$80,333,778	71.4	Highway	\$2,150,135	\$432,245	15.9	20.1	\$6,296,623	91.0
Building.....	\$12,121,540	284,435	39.0	2.3	\$45,054,038	57.2	Bridge and culvert.....	1,730,589	211,350	7.8	12.2	\$5,617,266	89.4
Building not specialized ³	10,127,429	204,659	28.0	2.0	38,320,586	55.6	Grading.....	24,314	400	(3)	1.6	\$12,712	80.8
Commercial building only	850,979	40,585	5.6	4.8	2,185,682	75.2	Street paving.....	1,845,681	282,400	10.4	15.3	\$4,014,897	95.2
Residential building only	1,109,301	39,161	5.4	4.3	4,368,551	56.7	Sewer, gas, water, conduit.....	698,710	25,237	1.0	4.0	\$2,187,725	100.0
Oil and natural gas pipe line	4,734,119	4,409	.6	3.5	7,704,704	86.1	Dam and reservoir.....	300,304	50,794	1.9	16.9	\$20,748	87.9
Subcontractors.....	\$15,377,781	441,071	60.4	2.9	\$35,902,896	96.7	Waterworks.....	72,678	1,800	.1	2.6	\$172,700	72.8
Concreting.....	883,399	1,800	.2	.2	3,269,792	99.5	Levees.....	9,657	2,033	.1	21.1	\$95,000	83.0
Heating and plumbing.....	\$5,590,398	4,298	.6	1.1	\$11,263,525	95.0	Railroad.....	975,180	113,641	4.2	11.7	\$2,725,195	97.1
Plumbing.....	2,720,072	4,298	.6	2.5	5,373,815	98.6	Central station, light and power plant.....	1,752,840	20,000	.7	1.1	\$3,427,080	99.4
Masonry.....	920,219	22,824	3.1	2.5	2,152,723	99.8	Oil and natural gas pipe line.....	4,734,119	17,543	.6	.4	\$7,704,704	86.1
Roofing and sheet-metal work.....	\$1,178,001	10,640	1.5	.9	\$2,681,151	98.7	Subcontractors.....	15,377,781	343,362	12.6	2.2	\$35,902,896	96.7
Roofing.....	745,009	10,640	1.5	1.4	1,694,246	97.9	Carpentering and wood flooring.....	144,014	254	(5)	2	\$33,330	97.8
Marble and tiling.....	776,449	371,502	50.9	47.8	1,087,250	99.6	Concreting.....	883,399	225,116	8.3	25.5	\$3,269,792	99.5
Metal work, n. e. s.....	650,474	30,000	4.1	4.5	1,196,209	100.0	Heating and plumbing.....	\$5,590,398	4,654	.2	.1	\$11,263,525	95.0
Concrete and cinder block							Pipe covering.....	377,000	4,000	1.1	1.1	\$1,219,000	83.0
All classes.....	42,595,500	576,744	100.0	1.4	116,236,674	78.8	Plumbing.....	2,720,072	600	(5)	(5)	\$5,373,815	98.6
General contractors ²	\$27,217,719	564,200	97.8	2.1	\$80,333,778	71.4	Plumbing and heating combined.....	538,823	54	(5)	(5)	\$893,555	99.4
Building.....	12,121,540	140,413	25.9	1.2	45,054,038	57.2	Masonry.....	920,219	47,379	1.7	5.1	\$2,152,723	99.8
Building not specialized ³	10,127,429	122,425	21.2	1.2	38,320,586	55.6	Glass and glazing.....	866,730	9,779	.4	2.7	\$12,125	100.0
Commercial building only	850,979	22,405	3.9	2.6	2,185,682	75.2	Plastering and lathing.....	282,958	878	(5)	.3	\$855,695	98.5
Manufacturing building only.....	33,831	893	.1	2.0	170,210	73.4	Roofing and sheet-metal work.....	\$1,178,001	108	(5)	(5)	\$2,681,151	98.7
Residential building only.....	1,109,301	3,720	.6	.3	4,368,551	56.7	Roofing.....	745,009	108	(5)	(5)	\$1,694,246	97.9
Highway.....	2,150,135	7,104	1.2	1.2	6,296,623	91.6	Stone work.....	360,630	10,634	.4	2.0	\$37,331	100.0
Street paving.....	1,845,681	217,847	37.8	11.9	4,014,897	95.2	Marble and tiling.....	776,449	40,193	1.5	5.2	\$1,987,250	99.6
Sewer, gas, water, conduit.....	698,710	180,845	32.9	27.2	2,187,725	100.0	Bridge and culvert.....	87,240	3,375	1.1	3.9	\$31,821	94.9
Subcontractors.....	\$15,377,781	12,535	2.2	1.1	\$35,902,896	96.7	Power plant work.....	41,155	1,002	(5)	2.4	\$137,924	87.7
Concreting.....	883,399	640	.1	.1	3,269,792	99.5	Structural steel						
Masonry.....	920,219	10,516	1.8	1.1	2,152,723	99.8	All classes.....	42,595,500	2,448,905	100.0	5.7	116,236,674	78.8
Power-plant work.....	41,155	1,373	.2	3.3	137,924	87.7	General contractors ²	\$27,217,719	1,731,408	70.7	6.4	\$80,333,778	71.4
Cut stone, granite and marble							Building.....	\$12,121,540	1,118,232	45.7	9.2	\$45,054,038	57.2
All classes.....	42,595,500	1,087,730	100.0	2.6	116,236,674	78.8	Building not specialized ³	10,127,429	1,059,610	43.3	10.5	38,320,586	55.6
General contractors ²	\$27,217,719	538,843	49.5	2.0	\$80,333,778	71.4	Commercial building only	850,979	29,976	1.1	3.2	2,185,682	75.2
Building.....	12,121,540	355,564	32.7	2.9	45,054,038	57.2	Residential building only.....	1,109,301	31,700	1.3	2.9	4,368,551	56.7
Building not specialized ³	10,127,429	272,251	25.0	2.7	38,320,586	55.6	Highway.....	2,150,135	61,149	2.5	2.8	6,296,623	91.6
Commercial building only	850,979	35,350	3.2	4.2	2,185,682	75.2	Bridge and culvert.....	1,730,589	416,605	17.0	24.1	\$5,617,266	99.4
Residential building only.....	1,109,301	47,063	4.4	4.3	4,368,551	56.7	Grading.....	24,314	1,300	.1	5.3	\$12,712	80.8
Highway.....	2,150,135	14,686	1.4	.7	6,296,623	91.6	Street paving.....	1,845,681	6,872	.3	.4	\$4,014,897	95.2
Bridge and culvert.....	1,730,589	9,000	.8	.6	5,617,266	99.4	Sewer, gas, water, conduit.....	698,710	6,918	.3	1.0	\$2,187,725	100.0
Street paving.....	1,845,681	159,593	14.6	8.6	4,014,897	95.2	Waterworks.....	72,678	600	(5)	.8	\$172,700	72.8
Subcontractors.....	\$15,377,781	548,896	50.5	3.6	\$35,902,896	96.7	Dredging, river, harbor, etc.....	777,358	6,400	.3	.8	\$2,120,323	93.3
Concreting.....	883,399	308,458	28.4	85.5	637,331	100.0	Railroad.....	975,180	92,964	3.8	9.5	\$2,725,195	97.1
Masonry.....	920,219	240,331	22.1	31.0	1,987,250	99.6	Oil and natural gas pipe line.....	4,734,119	20,308	.8	.4	\$7,704,704	86.1
Marble and tiling.....	776,449	240,331	22.1	31.0	1,987,250	99.6	Subcontractors.....	\$15,377,781	717,497	29.3	4.7	\$35,902,896	96.7
Power-plant work.....	41,155	107	(5)	.3	137,924	87.7	Concreting.....	883,399	15,906	.6	1.8	\$3,269,792	99.5
Riprap, rubble, etc.							Elevator construction.....	1,012,120	23,150	.9	2.3	\$1,011,800	100.0
All classes.....	42,595,500	668,986	100.0	1.6	116,236,674	78.8	Masonry.....	920,219	908	(5)	.1	\$2,152,723	99.8
General contractors ²	\$27,217,719	642,959	96.1	2.4	\$80,333,778	71.4	Steel erection.....	593,188	513,190	21.0	86.6	\$1,325,998	75.8
Building.....	12,121,540	28,482	4.2	.2	45,054,038	57.2	Bridge and culvert.....	87,240	1,005	(5)	1.3	\$31,821	94.9
Building not specialized ³	10,127,429	24,280	3.6	.2	38,320,586	55.6	Power plant work.....	41,155	2,232	.1	5.4	\$137,924	87.7
Commercial building only	850,979	432	.1	.1	2,185,682	75.2	Metal work, n. e. s.....	650,474	161,085	6.6	24.4	1,196,209	100.0
Residential building only.....	1,109,301	3,770	.6	.3	4,368,551	56.7	Reinforcing steel						
Highway.....	2,150,135	21,380	3.2	1.0	6,296,623	91.6	All classes.....	42,595,500	2,028,402	100.0	4.8	116,236,674	78.8
Bridge and culvert.....	1,730,589	227,804	34.1	13.2	5,617,266	99.4	General contractors ²	\$27,217,719	1,075,173	82.6	6.2	\$80,333,778	71.4
Street paving.....	1,845,681	50,900	8.5	3.1	4,014,897	95.2	Building.....	12,121,540	1,049,245	51.7	8.7	\$45,054,038	57.2
Waterworks.....	72,678	2,000	.3	.2	172,700	72.8	Building not specialized ³	10,127,429	888,490	43.8	8.8	38,320,586	55.6
Dredging, river, harbor, etc.....	777,358	205,682	30.7	26.5	2,129,323	93.3	Commercial building only	850,979	79,115	3.9	9.3	2,185,682	75.2
Railroad.....	975,180	100,711	15.1	10.3	2,725,195	97.1	Residential building only.....	1,109,301	81,640	4.0	7.4	4,368,551	56.7
Subcontractors.....	\$15,377,781	26,027	3.9	.2	\$35,902,896	96.7	Highway.....	2,150,135	240,160	11.8	11.2	6,296,623	91.6
Concreting.....	883,399	2,000	.3	.2	3,269,792	99.5	Bridge and culvert.....	1,730,589	95,730	4.7	5.5	\$5,617,266	99.4
Stone work.....	360,630	24,027	3.6	6.7	637,331	100.0	Grading.....	24,314	1,818	.1	7.5	\$12,712	80.8
Cement							Street paving.....	1,845,681	53,989	2.7	2.9	\$4,014,897	95.2
All classes.....	42,595,500	2,722,512	100.0	6.4	116,236,674	78.8	Sewer, gas, water, conduit.....	698,710	64,734	3.2	9.3	\$2,187,725	100.0
General contractors ²	\$27,217,719	2,378,150	87.4	8.7	\$80,333,778	71.4	Dam and reservoir.....	300,304	60,305	3.4	23.1	\$20,748	87.9
Building.....	\$12,121,540	1,218,662	44.8	10.1	\$45,054,038	57.2	Waterworks.....	72,678	450	(5)	.6	\$172,700	72.8
Building not specialized ³	10,127,429	1,101,602	40.5	10.9	38,320,586	55.6	Levees.....	9,657	310	(5)	3.2	\$95,000	83.0
Commercial building only	850,979	37,707	1.4	4.4	2,185,682	75.2	Railroad.....	975,180	98,830	4.9	10.1	\$2,725,195	97.1
Residential building only.....	1,109,301	79,353	2.9	7.2	4,368,551	56.7	Oil and natural gas pipe line.....	4,734,119	602	(5)	(5)	\$7,704,704	86.1
Subcontractors.....	\$15,377,781	26,027	3.9	.2	\$35,902,896	96.7	Subcontractors.....	\$15,377,781	353,289	17.4	2.3	\$35,902,896	96.7
Concreting.....	883,399	2,000	.3	.2	3,269,792	99.5	Concreting.....	883,399	183,754	9.1	20.8	\$3,269,792	9

CONSTRUCTION—MISSOURI

699

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]

KIND OF MATERIAL AND CLASSIFICATION OF ESTABLISHMENTS	COST OF DESIGNATED MATERIAL				Value of construction business	Indicated per cent of all business done by own force ¹	KIND OF MATERIAL AND CLASSIFICATION OF ESTABLISHMENTS	COST OF DESIGNATED MATERIAL				Value of construction business	Indicated per cent of all business done by own force ¹
	Cost of all materials distributed by kind	Amount	Per cent of—					Cost of all materials distributed by kind	Amount	Per cent of—			
			Total cost	Cost of all distributed materials						Total cost	Cost of all distributed materials		
MISSOURI—Continued						MISSOURI—Continued							
<i>Plumbing and gas fitting equipment—Continued</i>						<i>Wood piling and timber</i>							
All classes.....						All classes.....							
Subcontractors.....	\$15,377,781	\$2,901,316	60.7	18.9	\$35,902,806	96.7	General contractors.....	\$20,322,586	\$510,916	94.5	1.9	\$76,444,377	72.4
Heating and plumbing.....	5,509,308	2,901,066	60.7	51.8	11,203,525	95.0	Building.....	11,226,407	6,000	1.1	.1	41,164,637	56.9
Heating and piping.....	1,680,278	153,509	4.8	9.1	3,000,242	91.0	Building not specialized.....	9,232,206	6,000	1.1	.1	34,440,185	54.9
Plumbing.....	2,720,072	2,202,545	68.9	81.0	5,373,815	98.6	Bridge and culvert.....	1,730,589	169,535	31.3	9.8	5,517,266	99.4
Plumbing and heating combined.....	538,823	292,520	9.1	54.3	893,555	99.4	Dredging, river, harbor, etc.....	777,368	317,175	58.6	40.8	2,129,323	93.3
Automatic sprinkler system.....	252,492	252,492	7.9	100.0	564,819	97.9	Railroad.....	975,180	5,636	1.0	.6	2,725,195	97.1
Roofing and sheet-metal work.....	1,178,001	250	(⁹)	(⁹)	2,681,151	98.7	Central station, light and power plant.....	1,752,849	12,576	2.3	.7	3,427,069	99.4
Sheet-metal work.....	319,092	250	(⁹)	.1	773,905	100.0	Subcontractors.....	\$15,377,781	30,000	5.5	.2	\$35,902,806	96.7
<i>Electrical appliances and supplies</i>						KANSAS CITY							
All classes.....						<i>Sand, gravel, stone, slag, cinders, etc.</i>							
All classes.....						All classes.....							
General contractors ²	\$27,217,719	\$1,541,917	43.2	5.7	\$80,333,778	71.4	General contractors ²	\$8,439,350	\$1,189,174	93.0	14.1	\$22,661,135	82.1
Building.....	12,121,540	166,810	4.7	1.4	45,054,938	57.2	Building.....	4,345,140	448,529	35.1	10.8	12,655,498	72.2
Building not specialized ²	10,127,429	113,936	3.2	1.1	38,329,586	55.6	Building not specialized ²	3,469,404	413,023	32.8	11.9	10,153,070	73.0
Commercial building only.....	850,079	29,837	.8	3.2	2,185,682	56.2	Commercial building only.....	471,413	10,714	1.3	3.5	1,142,202	69.3
Residential building only.....	1,109,301	25,837	.7	2.3	4,368,551	56.7	Residential building only.....	370,498	18,792	1.6	5.1	1,422,007	65.8
Street paving.....	1,845,681	2,567	.1	.1	4,014,897	95.2	Highway.....	806,985	315,193	24.0	30.4	2,028,822	92.9
Sewer, gas, water, conduit.....	698,710	21,754	6	3.1	2,187,725	100.0	Bridge and culvert.....	1,117,851	85,985	6.7	7.7	2,991,049	100.0
Waterworks.....	698,710	500	(⁹)	.7	172,700	72.8	Grading.....	23,114	17,760	1.4	70.9	274,712	100.0
Levee.....	9,657	728	(⁹)	.7	95,000	83.0	Street paving.....	148,440	65,000	5.1	43.8	310,899	99.8
Railroad.....	975,180	2,738	.1	.3	2,725,195	97.1	Sewer, gas, water, conduit.....	195,849	3,840	.8	2.1	540,775	100.0
Central station, light and power plant.....	1,752,849	1,152,072	32.3	65.7	3,427,069	99.4	Dam and reservoir.....	300,304	85,084	6.7	28.3	520,748	87.9
Oil and natural gas pipe line.....	4,734,119	194,048	5.6	4.1	7,704,704	86.1	Railroad.....	953,362	107,643	11.3	17.0	2,054,531	97.3
Subcontractors.....	\$15,377,781	\$2,028,749	66.8	13.2	\$35,902,806	96.7	Central station, light and power plant.....	8,138	138	(⁹)	1.7	80,000	100.0
Electrical.....	1,925,992	1,000,821	53.5	90.2	4,712,530	100.0	Subcontractors.....	\$4,130,498	\$90,174	7.0	2.2	\$10,549,284	96.3
Elevator construction.....	1,012,129	17,010	.9	1.7	1,611,809	100.0	Concrete.....	183,212	20,155	1.0	11.0	1,151,206	100.0
Heating and plumbing.....	5,509,308	33,316	.9	.0	11,203,525	95.9	Heating and plumbing.....	1,924,951	75	(⁹)	(⁹)	4,187,962	95.4
Plumbing.....	2,720,072	32,816	.9	1.2	5,373,815	98.6	Heating and piping.....	321,985	25	(⁹)	(⁹)	629,134	90.7
Plumbing and heating combined.....	538,823	500	(⁹)	.1	893,555	99.4	Plumbing.....	779,418	55	(⁹)	(⁹)	1,437,544	98.1
Painting and decorating.....	359,831	43,002	1.2	12.0	1,845,701	99.6	Plastering and lathing.....	215,692	5,882	.5	2.7	576,978	97.9
Metal work, n. e. s.....	659,474	25,000	.7	3.8	1,196,209	100.0	Roofing and sheet-metal work.....	520,914	1,534	.1	.3	1,004,206	99.8
<i>Elevators, dumb-waiters and equipment</i>						<i>Brick (face, common, fire, paving, etc.)</i>							
All classes.....						All classes.....							
All classes.....						All classes.....							
General contractors ²	\$27,217,719	\$281,127	22.7	1.0	\$80,333,778	71.4	General contractors ²	\$8,439,350	\$267,892	89.1	33.2	\$22,661,135	82.1
Building.....	12,121,540	281,127	22.7	2.3	45,054,938	57.2	Building.....	4,345,140	227,225	75.6	5.3	12,655,498	72.2
Building not specialized ²	10,127,429	270,927	22.6	2.8	38,329,586	55.6	Building not specialized ²	3,469,404	148,104	49.3	4.3	10,153,070	73.0
Commercial building only.....	850,079	1,200	.1	.1	2,185,682	75.2	Commercial building only.....	471,413	42,020	14.3	9.1	1,190,202	60.3
Subcontractors.....	\$15,377,781	\$959,455	77.3	6.2	\$35,902,806	96.7	Manufacturing building only.....	33,831	4,700	1.0	13.9	170,219	73.4
Electrical.....	1,925,992	9,762	.8	.5	4,712,530	100.0	Residential building only.....	370,498	31,435	10.5	8.5	1,142,007	65.8
Elevator construction.....	1,012,129	936,020	75.6	92.5	1,611,809	100.0	Highway.....	806,985	18,791	6.3	2.2	2,028,822	92.9
Ornamental iron.....	180,852	13,673	1.1	10.4	217,571	96.1	Grading.....	23,114	926	.3	4.0	274,712	100.0
<i>Pipe: Cast-iron, sheet and tube steel, etc.³</i>						<i>Tile, facing, terra cotta, floor and wall</i>							
All classes.....						All classes.....							
All classes.....						All classes.....							
General contractors.....	\$20,322,586	\$3,927,787	97.5	14.9	\$76,444,377	72.4	General contractors ²	\$8,439,350	\$79,457	41.6	.8	\$22,661,135	82.1
Building.....	11,226,407	5,486	.1	(⁹)	41,164,637	56.9	Building.....	4,345,140	79,457	41.6	1.0	12,655,498	72.2
Building not specialized.....	9,232,206	3,486	.1	(⁹)	34,440,185	54.9	Building not specialized ²	3,469,404	52,408	27.4	1.5	10,153,070	73.0
Residential building only.....	1,109,301	2,000	(⁹)	.2	4,368,551	56.7	Commercial building only.....	471,413	27,049	14.2	5.7	1,190,202	69.3
Highway.....	2,150,135	11,568	.3	.5	6,296,923	91.6	Manufacturing building only.....	33,831	4,700	1.0	13.9	170,219	73.4
Bridge and culvert.....	1,730,589	800	(⁹)	(⁹)	5,517,266	99.4	Residential building only.....	370,498	31,435	10.5	8.5	1,142,007	65.8
Street paving.....	1,845,681	8,243	.2	.4	4,014,897	95.2	Highway.....	806,985	18,791	6.3	2.2	2,028,822	92.9
Sewer, gas, water, conduit.....	698,710	7,854	.2	1.1	2,187,725	100.0	Grading.....	23,114	926	.3	4.0	274,712	100.0
Dam and reservoir.....	300,304	6,700	.2	2.2	520,748	87.9	Street paving.....	148,440	7,000	2.3	4.7	310,899	99.8
Waterworks.....	698,710	31,480	8	43.3	172,700	72.8	Sewer, gas, water, conduit.....	195,849	1,950	.6	1.0	540,775	100.0
Levee.....	9,657	46	(⁹)	.5	95,000	83.0	Dam and reservoir.....	300,304	4,000	1.3	1.3	520,748	87.9
Railroad.....	975,180	8,084	.2	.8	2,725,195	97.1	Central station, light and power plant.....	8,138	8,000	2.7	98.3	80,000	100.0
Central station, light and power plant.....	1,752,849	379,734	9.4	21.7	3,427,069	99.4	Subcontractors.....	\$4,130,498	\$32,717	10.9	.8	\$10,549,284	96.3
Oil and natural gas pipe line.....	4,734,119	3,467,792	86.1	73.3	7,704,704	86.1	Heating and plumbing.....	1,924,951	125	(⁹)	(⁹)	4,187,962	95.4
Subcontractors.....	\$15,377,781	\$99,202	2.5	.6	\$35,902,806	96.7	Heating and piping.....	321,985	100	(⁹)	(⁹)	629,134	90.7
Heating and plumbing.....	5,509,308	88,202	2.2	1.6	11,203,525	95.9	Plumbing.....	779,418	25	(⁹)	(⁹)	1,437,544	98.1
Heating and piping.....	1,680,278	64,708	1.6	3.9	3,090,242	91.0	Marble and tiling.....	210,938	13	(⁹)	(⁹)	566,673	100.0
Plumbing.....	2,720,072	10,554	.3	.4	5,373,815	98.6	Power-plant work.....	41,155	32,579	10.8	79.2	137,924	87.7
Plumbing and heating combined.....	538,823	13,000	.3	2.4	893,555	99.4	<i>Tile, facing, terra cotta, floor and wall</i>						
Steel erection.....	593,188	940	(⁹)	.2	1,325,968	75.8	All classes.....						
Metal work, n. e. s.....	659,474	10,000	.2	1.5	1,196,209	100.0	All classes.....						

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]

KIND OF MATERIAL AND CLASSIFICATION OF ESTABLISHMENTS	COST OF DESIGNATED MATERIAL				Value of construction business	Indicated per cent of all business done by own force ¹	KIND OF MATERIAL AND CLASSIFICATION OF ESTABLISHMENTS	COST OF DESIGNATED MATERIAL				Value of construction business	Indicated per cent of all business done by own force ¹		
	Cost of all materials distributed by kind	Amount	Per cent of—					Cost of all materials distributed	Cost of all materials distributed by kind	Amount	Per cent of—			Cost of all materials distributed	
			Total cost	Cost of all distributed materials							Total cost				Cost of all distributed materials
KANSAS CITY—Continued						KANSAS CITY—Continued									
Riprap, rubble, etc.						Lumber, rough and finished									
All classes.....	\$12,500,848	\$486,066	100.0	3.9	\$33,210,419	86.3	All classes.....	\$12,500,848	\$1,382,841	100.0	11.0	\$33,210,419	86.3		
General contractors ²	\$8,439,350	484,959	99.6	5.7	\$22,661,135	82.1	General contractors ²	\$8,439,350	1,301,217	94.1	15.4	\$22,661,135	82.1		
Building.....	\$4,345,146	8,566	1.8	.2	\$12,655,498	72.2	Building.....	\$4,345,146	692,506	50.1	15.9	\$12,655,498	72.2		
Building not specialized ²	3,469,404	7,589	1.6	.2	10,153,070	73.0	Building not specialized ²	3,469,404	588,283	41.1	16.4	10,153,070	73.0		
Commercial building only.....	471,413	432	.1	.1	1,190,202	69.3	Commercial building only.....	471,413	55,878	4.0	11.9	1,190,202	69.3		
Residential building only.....	370,498	545	.1	.1	1,142,007	65.8	Manufacturing building only.....	33,831	6,193	.4	18.3	170,219	73.4		
Highway.....	866,085	4,000	.8	.5	2,028,822	92.9	Residential building only.....	370,498	62,152	4.5	16.8	1,142,007	65.8		
Bridge and culvert.....	1,117,851	220,000	45.2	19.7	2,991,040	100.0	Highway.....	866,085	7,852	.6	9.9	2,028,822	92.9		
Dredging, river, harbor, etc.....	442,958	151,682	31.1	34.2	954,323	100.0	Bridge and culvert.....	1,117,851	161,528	11.7	14.4	2,991,040	100.0		
Railroad.....	953,362	100,711	20.7	10.6	2,054,531	97.8	Grading.....	23,114	304	(³)	1.3	310,899	100.0		
Subcontractors.....	\$4,130,498	2,000	.4	(³)	\$10,549,284	96.3	Street paving.....	148,440	5,397	.4	3.6	310,899	99.8		
Concreting.....	183,212	2,000	.4	1.1	1,151,209	100.0	Sewer, gas, water, conduit.....	195,840	6,000	.4	3.1	546,775	100.0		
Cement						Dam and reservoir.....									
All classes.....	12,500,848	1,181,530	100.0	9.4	33,210,419	86.3	300,304	26,400	1.0	8.8	520,748	87.9			
General contractors ²	\$8,439,350	1,136,225	96.2	13.5	\$22,661,135	82.1	Dredging, river, harbor, etc.....	442,958	100,752	7.9	24.8	954,323	100.0		
Building.....	\$4,345,146	502,009	42.6	11.6	\$12,655,498	72.2	Railroad.....	953,362	201,478	21.1	30.6	2,054,531	97.8		
Building not specialized ²	3,469,404	440,151	38.0	12.6	10,153,070	73.0	Subcontractors.....	\$4,130,498	81,624	5.9	2.0	\$10,549,284	96.3		
Commercial building only.....	471,413	32,815	2.8	7.0	1,190,202	69.3	Concreting.....	183,212	57,865	4.2	31.6	1,151,209	100.0		
Residential building only.....	370,498	20,940	1.8	5.7	1,142,007	65.8	Electrical.....	463,970	50	(³)	(³)	1,010,911	100.0		
Highway.....	866,085	316,952	26.8	36.6	2,028,822	92.9	Heating and plumbing.....	\$1,924,951	35	(³)	(³)	\$4,187,062	95.4		
Bridge and culvert.....	1,117,851	119,429	10.1	10.7	2,991,040	100.0	Plumbing.....	779,418	35	(³)	(³)	1,437,544	98.1		
Street paving.....	148,440	25,000	2.1	16.8	310,899	99.8	Plastering and lathing.....	215,692	2,195	.2	1.0	576,978	97.9		
Sewer, gas, water, conduit.....	195,840	7,500	.6	3.8	546,775	100.0	Roofing and sheet-metal work.....	\$520,914	82	(³)	(³)	\$1,094,206	99.8		
Dam and reservoir.....	300,304	50,794	4.3	16.9	520,748	87.9	Roofing.....	349,369	82	(³)	(³)	693,398	99.7		
Railroad.....	953,362	113,641	9.6	11.9	2,054,531	97.8	Marble and tiling.....	210,938	300	(³)	.1	566,673	100.0		
Subcontractors.....	\$4,130,498	45,314	3.8	1.1	\$10,549,284	96.3	Bridge and culvert.....	87,240	20,569	1.5	23.6	331,821	94.9		
Concreting.....	183,212	23,462	2.0	12.8	1,151,209	100.0	Power plant work.....	41,155	528	5.0	1.3	137,924	87.7		
Heating and plumbing.....	\$1,924,951	100	(³)	(³)	\$4,187,062	95.4	Millwork								
Plumbing.....	779,418	100	(³)	(³)	1,437,544	98.1	All classes.....	\$12,500,848	312,361	100.0	2.5	\$33,210,419	86.3		
Plastering and lathing.....	215,692	878	.1	.4	576,978	97.9	General contractors ²	\$8,439,350	312,361	100.0	3.7	\$22,661,135	82.1		
Roofing and sheet-metal work.....	\$520,914	25	(³)	(³)	\$1,094,206	99.8	Building.....	\$4,345,146	312,361	100.0	7.2	\$12,655,498	72.2		
Roofing.....	349,369	25	(³)	(³)	693,398	99.7	Building not specialized ²	3,469,404	228,749	73.2	6.6	10,153,070	73.0		
Marble and tiling.....	210,938	16,472	1.4	7.8	566,673	100.0	Commercial building only.....	471,413	21,756	7.0	4.6	1,190,202	69.3		
Bridge and culvert.....	87,240	3,375	.3	3.9	331,821	94.9	Residential building only.....	370,498	61,856	19.8	16.7	1,142,007	65.8		
Power plant work.....	41,155	1,002	.1	2.4	137,924	87.7	Composition board								
Structural steel						All classes.....									
All classes.....	12,500,848	694,018	100.0	5.5	33,210,419	86.3	All classes.....	12,500,848	374,851	100.0	3.0	33,210,419	86.3		
General contractors ²	\$8,439,350	543,917	78.4	6.4	\$22,661,135	82.1	General contractors ²	\$8,439,350	36,125	9.6	.4	\$22,661,135	82.1		
Building.....	\$4,345,146	124,473	17.9	2.9	\$12,655,498	72.2	Building.....	\$4,345,146	38,125	9.6	.8	\$12,655,498	72.2		
Building not specialized ²	3,469,404	108,697	15.7	3.1	10,153,070	73.0	Building not specialized ²	3,469,404	17,041	4.5	.5	10,153,070	73.0		
Commercial building only.....	471,413	14,176	2.0	3.0	1,190,202	69.3	Residential building only.....	370,498	19,084	5.1	5.2	1,142,007	65.8		
Residential building only.....	370,498	1,700	.2	.5	1,142,007	65.8	Subcontractors.....	\$4,130,498	338,726	90.4	8.2	\$10,549,284	96.3		
Highway.....	866,085	11,600	1.7	1.3	2,028,822	92.9	Heating and plumbing.....	\$1,924,951	336,000	89.6	17.5	\$4,187,062	95.4		
Bridge and culvert.....	1,117,851	322,036	46.4	28.8	2,991,040	100.0	Pipe covering.....	336,000	336,000	89.0	100.0	1,092,000	92.2		
Street paving.....	148,440	1,800	.2	5.6	274,712	100.0	Roofing and sheet-metal work.....	\$520,914	2,676	.7	.5	\$1,094,206	99.8		
Sewer, gas, water, conduit.....	195,840	2,118	.3	1.1	546,775	100.0	Roofing.....	349,369	2,676	.7	.8	693,398	99.7		
Dam and reservoir.....	300,304	82,290	11.9	8.6	2,054,531	97.8	Marble and tiling.....	210,938	50	(³)	(³)	566,673	100.0		
Railroad.....	953,362	150,101	21.6	3.6	\$10,549,284	96.3	Hardware, rough and finished								
Subcontractors.....	\$4,130,498	150,101	21.6	3.6	\$10,549,284	96.3	All classes.....	12,500,848	178,233	100.0	1.4	33,210,419	86.3		
Concreting.....	183,212	13,774	2.0	7.5	1,151,209	100.0	General contractors ²	\$8,439,350	169,887	95.3	2.0	\$22,661,135	82.1		
Steel erection.....	144,700	133,000	19.2	91.9	277,598	100.0	Building.....	\$4,345,146	134,394	75.4	3.1	\$12,655,498	72.2		
Bridge and culvert.....	87,240	1,095	.2	1.3	331,821	94.9	Building not specialized ²	3,469,404	116,069	65.1	3.3	10,153,070	73.0		
Power plant.....	41,155	2,232	.3	5.4	137,924	87.7	Commercial building only.....	471,413	9,350	5.2	2.0	1,190,202	69.3		
Reinforcing steel						All classes.....									
All classes.....	12,500,848	786,729	100.0	6.3	33,210,419	86.3	Manufacturing building only.....	33,831	800	.4	2.4	170,219	73.4		
General contractors ²	\$8,439,350	679,047	86.3	8.0	\$22,661,135	82.1	Residential building only.....	370,498	8,175	4.6	2.2	1,142,007	65.8		
Building.....	\$4,345,146	429,095	54.7	6.9	\$12,655,498	72.2	Street paving.....	148,440	3,000	1.7	2.0	310,899	99.8		
Building not specialized ²	3,469,404	331,031	42.2	9.0	10,153,070	73.0	Dredging, river, harbor, etc.....	442,958	15,005	8.4	3.4	954,323	100.0		
Commercial building only.....	471,413	57,233	7.3	12.1	1,190,202	69.3	Railroad.....	953,362	17,488	9.8	1.8	2,054,531	97.8		
Residential building only.....	370,498	40,831	5.2	11.0	1,142,007	65.8	Subcontractors.....	\$4,130,498	8,346	4.7	.2	\$10,549,284	96.3		
Highway.....	866,085	38,076	4.3	3.9	2,028,822	92.9	Concreting.....	183,212	6,851	3.8	3.7	1,151,209	100.0		
Bridge and culvert.....	1,117,851	33,224	4.9	3.4	2,991,040	100.0	Plastering and lathing.....	215,692	1,160	.7	.5	576,978	97.9		
Street paving.....	148,440	1,818	.2	7.9	274,712	100.0	Roofing and sheet-metal work.....	\$520,914	135	.1	(³)	\$1,094,206	99.8		
Sewer, gas, water, conduit.....	195,840	2,000	.4	1.5	546,775	100.0	Roofing.....	349,369	135	.1	(³)	693,398	99.7		
Dam and reservoir.....	300,304	69,305	8.8	23.1	2,028,748	87.9	Marble and tiling.....	210,938	200	.1	.1	566,673	100.0		
Railroad.....	953,362	93,830	12.6	10.4	2,054,531	97.8	See footnotes at end of table.								

CONSTRUCTION—MISSOURI

701

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]

KIND OF MATERIAL AND CLASSIFICATION OF ESTABLISHMENTS	COST OF DESIGNATED MATERIAL					Indicated per cent of all business done by own force ¹	KIND OF MATERIAL AND CLASSIFICATION OF ESTABLISHMENTS	COST OF DESIGNATED MATERIAL					Indicated per cent of all business done by own force ¹
	Cost of all materials distributed by kind	Amount	Per cent of—		Value of construction business			Cost of all materials distributed by kind	Amount	Per cent of—		Value of construction business	
			Total cost	Cost of all distributed materials						Total cost	Cost of all distributed materials		
KANSAS CITY—Continued							KANSAS CITY—Continued						
<i>Paints, varnishes, glass</i>							<i>Plumbing and gas fitting equipment—Continued</i>						
All classes.....	\$12,569,848	\$227,439	100.0	1.8	\$33,210,419	86.3	Subcontractors.....	\$4,130,498	\$895,872	89.7	21.7	\$10,540,284	96.3
General contractors ²	8,439,350	64,575	28.4	.8	22,661,135	82.1	Heating and plumbing.....	1,924,951	895,872	89.7	46.5	4,187,962	95.4
Building.....	4,345,146	62,239	27.4	1.4	12,655,498	72.2	Heating and piping.....	321,985	73,606	7.4	22.9	929,134	90.7
Building not specialized ²	3,469,404	48,825	21.5	1.4	10,153,070	73.0	Plumbing.....	779,418	465,320	46.6	59.7	1,437,544	98.1
Commercial building only.....	471,413	4,268	1.9	.9	1,190,202	69.3	Plumbing and heating combined.....	204,323	104,394	10.4	51.1	339,371	98.8
Manufacturing building only.....	33,831	2,000	.9	5.9	170,219	73.4	Automatic sprinkler system.....	252,492	252,492	25.3	100.0	504,819	97.9
Residential building only.....	370,498	7,146	3.1	1.9	1,142,007	65.8							
Street paving.....	148,440	200	.1	.1	310,899	99.8							
Railroad.....	953,362	2,136	.9	.2	2,054,531	97.8	<i>Electrical appliances and supplies</i>						
Subcontractors.....	4,130,498	162,864	71.0	3.9	10,540,284	96.3	All classes.....	12,569,848	655,750	100.0	5.2	33,210,419	86.3
Electrical.....	463,970	100	(³)	(³)	1,010,911	100.0	General contractors ²	8,439,350	116,121	17.7	1.4	22,661,135	82.1
Heating and plumbing.....	1,924,951	25	(³)	(³)	4,187,962	95.4	Building.....	4,345,146	94,643	14.4	2.2	12,655,498	72.2
Plumbing.....	779,418	25	(³)	(³)	1,437,544	98.1	Building not specialized ²	3,469,404	75,885	11.6	2.2	10,153,070	73.0
Painting and decorating.....	99,484	56,482	24.8	56.8	603,505	100.0	Commercial building only.....	471,413	2,037	.3	.4	1,190,202	99.3
Glass and glazing.....	104,362	103,094	45.3	98.8	227,217	100.0	Residential building only.....	370,498	16,721	2.5	4.5	1,142,007	65.8
Roofing and sheet-metal work.....	520,914	1,575	.7	.3	1,094,206	99.8	Sewer, gas, water, conduit.....	195,849	18,740	2.9	9.6	546,775	100.0
Roofing.....	349,369	75	(³)	(³)	693,398	99.7	Railroad.....	953,362	2,738	.4	.3	2,054,531	97.8
Roofing and sheet metal combined.....	15,000	1,500	.7	10.0	25,000	100.0	Subcontractors.....	4,130,498	539,638	82.3	13.1	10,540,284	96.3
Steel erection.....	144,700	1,340	.6	.9	277,598	100.0	Electrical.....	463,970	403,820	70.7	100.0	1,010,911	100.0
Marble and tiling.....	210,938	75	(³)	(³)	566,673	100.0	Heating and plumbing.....	1,924,951	32,816	5.0	1.7	4,187,962	95.4
Power plant work.....	41,155	173	.1	.4	137,924	87.7	Plumbing.....	779,418	82,816	5.0	4.2	1,437,544	98.1
							Painting and decorating.....	99,484	43,002	6.6	43.2	603,505	100.0
<i>Roofing and sheet metal</i>							<i>Elevators, dumb-waiters, and equipment</i>						
All classes.....	12,569,848	632,645	100.0	5.0	33,210,419	86.3	All classes.....	12,569,848	278,744	100.0	2.2	33,210,419	86.3
General contractors ²	8,439,350	122,882	19.4	1.5	22,661,135	82.1	General contractors ²	8,439,350	278,744	100.0	3.3	22,661,135	82.1
Building.....	4,345,146	98,960	15.0	2.3	12,655,498	72.2	Building.....	4,345,146	278,744	100.0	6.4	12,655,498	72.2
Building not specialized ²	3,469,404	83,857	13.3	2.4	10,153,070	73.0	Building not specialized ²	3,469,404	278,744	100.0	8.0	10,153,070	78.0
Commercial building only.....	471,413	3,836	.6	.8	1,190,202	69.3							
Manufacturing building only.....	33,831	3,475	.5	10.3	170,219	73.4	<i>Pipe: Drain tile, vitrified, concrete</i>						
Residential building only.....	370,498	7,792	1.2	2.1	1,142,007	65.8	All classes.....	12,569,848	220,057	100.0	1.8	33,210,419	86.3
Railroad.....	953,362	23,922	3.8	2.5	2,054,531	97.8	General contractors ²	8,439,350	202,939	91.8	2.4	22,661,135	82.1
Subcontractors.....	4,130,498	509,763	80.0	12.3	10,540,284	96.3	Building.....	4,345,146	926	.4	(³)	12,655,498	72.2
Heating and plumbing.....	1,924,951	4,982	.8	.3	4,187,962	95.4	Building not specialized ²	3,469,404	926	.4	(³)	10,153,070	78.0
Heating and piping.....	321,985	4,382	.7	1.4	629,134	90.7	Highway.....	866,985	3,569	1.6	4.4	2,028,822	92.9
Plumbing.....	779,418	600	.1	.1	1,437,544	98.1	Grading.....	23,114	1,000	5.4	4.3	274,712	100.0
Roofing and sheet-metal work.....	520,914	503,899	79.6	96.7	1,094,206	99.8	Street paving.....	148,440	14,557	6.0	9.8	310,899	99.8
Roofing.....	349,369	333,854	52.8	95.0	693,398	99.7	Sewer, gas, water, conduit.....	195,849	120,262	64.4	61.4	546,775	100.0
Sheet-metal work.....	156,545	156,545	24.7	100.0	875,809	100.0	Dam and reservoir.....	300,304	67,078	25.8	19.0	620,748	87.9
Roofing and sheet-metal combined.....	15,000	13,500	2.1	90.0	25,000	100.0	Railroad.....	953,362	5,547	2.5	.6	2,054,531	97.8
Power-plant work.....	41,155	882	.1	2.1	137,924	87.7	Subcontractors.....	4,130,498	18,018	8.2	.4	10,540,284	96.3
							Concreting.....	183,212	800	.4	.4	1,151,209	100.0
<i>Heating and ventilating equipment</i>							<i>Wood piling and timber</i>						
All classes.....	12,569,848	645,754	100.0	5.1	33,210,419	86.3	All classes.....	12,569,848	344,275	100.0	2.7	33,210,419	86.3
General contractors ²	8,439,350	54,852	8.5	.6	22,661,135	82.1	General contractors.....	7,845,387	314,275	91.3	4.0	21,215,706	83.1
Building.....	4,345,146	37,065	5.7	.9	12,655,498	72.2	Bridge and culvert.....	1,117,851	169,100	49.1	15.1	2,991,049	100.0
Building not specialized ²	3,469,404	28,887	4.5	.8	10,153,070	73.0	Dredging, river, harbor, etc.....	442,968	145,175	42.2	32.8	954,323	100.0
Commercial building only.....	471,413	3,506	.5	.7	1,190,202	69.3							
Residential building only.....	370,498	4,672	.7	1.3	1,142,007	65.8	<i>Ready-mixed concrete</i>						
Sewer, gas, water, conduit.....	195,849	17,787	2.8	9.1	546,775	100.0	All classes.....	12,569,848	232,825	100.0	1.9	33,210,419	86.3
Subcontractors.....	4,130,498	590,902	91.5	14.3	10,540,284	96.3	General contractors.....	7,845,387	212,741	91.4	2.7	21,215,706	83.1
Heating and plumbing.....	1,924,951	590,902	91.5	30.7	4,187,962	95.4	Building.....	3,751,183	132,505	56.9	3.5	11,210,069	70.3
Heating and piping.....	321,985	196,760	30.5	61.1	629,134	90.7	Building not specialized ²	2,875,441	46,176	19.8	1.6	8,707,641	70.9
Plumbing.....	779,418	263,480	40.8	33.8	1,437,544	98.1	Commercial building only.....	471,413	86,329	37.1	18.3	1,190,202	69.3
Plumbing and heating combined.....	204,323	99,929	15.5	48.9	339,371	98.8	Highway.....	866,985	39,004	16.8	4.5	2,028,822	92.9
Automatic temperature control.....	30,733	30,733	4.8	100.0	125,094	100.0	Street paving.....	148,440	16,627	7.1	11.2	310,899	99.8
							Telephone line and system.....	24,605	24,605	10.6	100.0	175,778	100.0
<i>Plumbing and gas fitting equipment</i>							<i>Ready-mixed concrete</i>						
All classes.....	12,569,848	990,277	100.0	7.9	33,210,419	86.3	All classes.....	12,569,848	232,825	100.0	1.9	33,210,419	86.3
General contractors ²	8,439,350	103,405	10.3	1.2	22,661,135	82.1	General contractors.....	7,845,387	212,741	91.4	2.7	21,215,706	83.1
Building.....	4,345,146	90,050	9.0	2.1	12,655,498	72.2	Building.....	3,751,183	132,505	56.9	3.5	11,210,069	70.3
Building not specialized ²	3,469,404	80,089	8.0	2.3	10,153,070	73.0	Building not specialized ²	2,875,441	46,176	19.8	1.6	8,707,641	70.9
Commercial building only.....	471,413	9,961	1.0	2.1	1,190,202	69.3	Commercial building only.....	471,413	86,329	37.1	18.3	1,190,202	69.3
Sewer, gas, water, conduit.....	195,849	4,237	.4	2.2	546,775	100.0	Highway.....	866,985	39,004	16.8	4.5	2,028,822	92.9
Waterworks.....	12,598	9,118	.9	72.4	68,000	36.8	Street paving.....	148,440	16,627	7.1	11.2	310,899	99.8
							Telephone line and system.....	24,605	24,605	10.6	100.0	175,778	100.0
							Subcontractors.....	4,130,498	20,084	8.6	.5	10,540,284	96.3
							Concreting.....	183,212	20,084	8.6	11.0	1,151,209	100.0

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]

KIND OF MATERIAL AND CLASSIFICATION OF ESTABLISHMENTS	COST OF DESIGNATED MATERIAL				Value of construction business	Indicated per cent of all business done by own force ¹	KIND OF MATERIAL AND CLASSIFICATION OF ESTABLISHMENTS	COST OF DESIGNATED MATERIAL				Value of construction business	Indicated per cent of all business done by own force ¹
	Cost of all materials distributed by kind	Amount	Per cent of—					Cost of all materials distributed by kind	Amount	Per cent of—			
			Total cost	Cost of all distributed materials						Total cost	Cost of all distributed materials		
ST. LOUIS						ST. LOUIS—Continued							
<i>Sand, gravel, stone, slag, cinders, etc.</i>						<i>Cut stone, granite and marble</i>							
All classes.....	\$24,757,167	\$1,953,572	100.0	7.9	\$69,055,756	74.1	All classes.....	\$24,757,167	\$823,706	100.0	3.3	\$69,055,756	74.1
General contractors ²	15,089,368	1,594,792	81.6	10.6	46,963,217	64.4	General contractors ²	15,089,368	376,235	45.7	2.5	46,963,217	64.4
Building.....	5,701,323	709,104	36.3	12.4	26,666,320	47.6	Building.....	5,701,323	202,956	24.0	3.0	26,666,320	47.6
Building not specialized ²	4,798,051	588,897	30.1	12.3	23,050,723	44.4	Building not specialized ²	4,798,051	168,106	20.4	3.5	23,050,723	44.4
Commercial building only.....	379,566	48,702	2.5	12.8	995,480	79.0	Commercial building only.....	379,566	31,424	3.8	8.3	995,480	79.0
Residential building only.....	523,706	71,506	3.7	13.7	2,620,117	51.3	Residential building only.....	523,706	3,423	0.4	7.0	2,620,117	51.3
Highway.....	312,296	152,325	7.8	48.8	776,147	94.3	Highway.....	312,296	4,686	0.6	1.5	776,147	94.3
Bridge and culvert.....	449,468	103,446	5.3	23.0	2,062,077	99.7	Bridge and culvert.....	449,468	9,006	1.1	2.0	2,062,077	99.7
Grading.....	1,200	800	(*)	66.7	38,000	65.5	Street paving.....	1,380,817	159,593	19.4	11.6	3,046,111	93.5
Street paving.....	1,380,817	526,067	26.9	38.1	3,046,111	93.5	Subcontractors.....	9,667,799	447,471	54.3	4.6	22,092,539	97.2
Sewer, gas, water, conduit.....	435,984	88,720	4.5	20.3	1,471,754	100.0	Stone work.....	348,930	296,758	86.0	85.0	602,331	100.0
Levee.....	9,657	2,914	1.1	30.2	95,000	100.0	Marble and tiling.....	501,955	150,713	18.3	30.0	1,253,173	99.4
Oil and natural gas pipe line.....	4,734,119	11,366	0.6	2.2	7,704,704	86.1	Cement						
Subcontractors.....	9,667,799	358,780	18.4	3.7	22,092,539	97.2	All classes.....	24,757,167	1,123,297	100.0	4.5	69,055,756	74.1
Carpentering and wood-flooring.....	112,709	323	(*)	3.3	268,512	96.3	General contractors ²	15,089,368	845,515	75.3	5.6	46,963,217	64.4
Concreting.....	661,457	223,815	11.5	33.8	2,001,094	100.0	Building.....	5,701,323	449,018	40.0	7.9	26,666,320	47.6
Heating and plumbing.....	2,834,650	1,000	1.1	(*)	5,610,371	95.2	Building not specialized ²	4,798,051	388,968	34.0	8.1	23,050,723	44.4
Pipe covering.....	41,000	1,000	1.1	2.4	124,000	100.0	Commercial building only.....	379,566	4,889	0.4	1.3	995,480	79.0
Masonry.....	825,942	59,275	3.0	7.2	1,966,435	99.9	Residential building only.....	523,706	55,163	4.9	10.5	2,620,117	51.3
Plastering and lathing.....	67,266	1,476	1.1	2.2	278,717	100.0	Highway.....	312,296	85,806	7.6	27.5	776,147	94.3
Roofing and sheet-metal work.....	375,999	4,030	0.2	1.1	1,028,652	99.3	Bridge and culvert.....	449,468	67,000	6.0	14.0	2,062,077	99.7
Roofing.....	276,780	4,030	0.2	1.5	749,616	99.0	Grading.....	1,200	400	(*)	33.3	38,000	65.5
Stone work.....	348,930	16,290	0.8	4.7	602,331	100.0	Street paving.....	1,380,817	186,586	16.6	13.5	3,046,111	93.5
Marble and tiling.....	501,955	50,571	2.6	10.1	1,253,173	99.4	Sewer, gas, water, conduit.....	435,984	17,135	1.5	3.9	1,471,754	100.0
Metal work, n. e. s.....	555,594	2,000	0.1	0.4	1,062,929	100.0	Levee.....	9,657	2,033	2.2	21.1	95,000	100.0
Brick (face, common, fire, paving, etc.)						Structural steel							
All classes.....	24,757,167	972,358	100.0	3.6	69,055,756	74.1	All classes.....	24,757,167	1,540,765	100.0	6.2	69,055,756	74.1
General contractors ²	15,089,368	547,535	56.3	3.6	46,963,217	64.4	General contractors ²	15,089,368	976,277	63.4	6.5	46,963,217	64.4
Building.....	5,701,323	529,727	54.5	9.3	26,666,320	47.6	Building.....	5,701,323	857,071	55.7	15.0	26,666,320	47.6
Building not specialized ²	4,798,051	451,644	46.4	9.4	23,050,723	44.4	Building not specialized ²	4,798,051	817,721	53.1	17.0	23,050,723	44.4
Commercial building only.....	379,566	29,978	3.1	7.9	995,480	79.0	Commercial building only.....	379,566	12,800	1.8	3.4	995,480	79.0
Residential building only.....	523,706	48,105	4.9	9.2	2,620,117	51.3	Residential building only.....	523,706	27,150	1.8	5.2	2,620,117	51.3
Highway.....	312,296	457	(*)	1.1	776,147	94.3	Highway.....	312,296	41,936	2.7	13.4	776,147	94.3
Bridge and culvert.....	449,468	4,072	0.4	0.9	2,062,077	99.7	Bridge and culvert.....	449,468	32,610	2.1	7.9	2,062,077	99.7
Street paving.....	1,380,817	1,055	0.1	1.1	3,046,111	93.5	Street paving.....	1,380,817	1,872	0.1	1.1	3,046,111	93.5
Sewer, gas, water, conduit.....	435,984	6,851	0.7	1.6	1,471,754	100.0	Sewer, gas, water, conduit.....	435,984	4,800	0.3	1.1	1,471,754	100.0
Oil and natural gas pipe line.....	4,734,119	5,373	0.6	1.1	7,704,704	86.1	Dredging, river, harbor, etc.....	334,400	6,400	0.4	1.9	1,175,000	87.8
Subcontractors.....	9,667,799	424,823	43.7	4.4	22,092,539	97.2	Railroad.....	21,818	10,674	7.7	48.9	602,331	100.0
Masonry.....	825,942	424,823	43.7	51.4	1,966,435	99.9	Oil and natural gas pipe line.....	4,734,119	20,308	1.3	0.4	7,704,704	86.1
Tile, facing, terra cotta, floor and wall						Reinforcing steel							
All classes.....	24,757,167	483,324	100.0	2.0	69,055,756	74.1	All classes.....	24,757,167	819,771	100.0	3.3	69,055,756	74.1
General contractors ²	15,089,368	182,832	37.8	1.2	46,963,217	64.4	General contractors ²	15,089,368	584,586	71.3	3.0	44,772,745	65.9
Building.....	5,701,323	178,423	36.9	3.1	26,666,320	47.6	Building.....	5,472,110	457,419	55.8	8.4	24,475,848	48.8
Building not specialized ²	4,798,051	135,146	28.0	2.8	23,050,723	44.4	Building not specialized ²	4,568,835	395,878	48.3	8.7	20,860,251	45.5
Commercial building only.....	379,566	13,636	2.8	3.6	995,480	79.0	Commercial building only.....	379,566	21,832	2.7	5.8	995,480	79.0
Residential building only.....	523,706	29,741	6.2	5.7	2,620,117	51.3	Residential building only.....	523,706	39,669	4.8	7.0	2,620,117	51.3
Highway.....	312,296	4,408	0.9	1.1	7,704,704	86.1	Highway.....	312,296	5,360	0.7	1.7	776,147	94.3
Bridge and culvert.....	449,468	4,072	0.4	0.9	2,062,077	99.7	Bridge and culvert.....	449,468	38,639	4.1	7.5	2,062,077	99.7
Street paving.....	1,380,817	1,055	0.1	1.1	3,046,111	93.5	Concrete and cinder block						
Sewer, gas, water, conduit.....	435,984	6,851	0.7	1.6	1,471,754	100.0	All classes.....	24,757,167	368,336	100.0	1.5	69,055,756	74.1
Oil and natural gas pipe line.....	4,734,119	5,373	0.6	1.1	7,704,704	86.1	General contractors ²	15,089,368	361,924	98.3	2.4	46,963,217	64.4
Subcontractors.....	9,667,799	300,492	62.2	3.1	22,092,539	97.2	Building.....	5,701,323	18,077	4.9	0.3	26,666,320	47.6
Concreting.....	661,457	1,806	0.4	3.3	2,001,094	100.0	Building not specialized ²	4,798,051	18,077	4.9	0.3	23,050,723	44.4
Masonry.....	825,942	8,817	1.8	1.1	1,966,435	99.9	Commercial building only.....	379,566	13,636	2.8	3.6	995,480	79.0
Roofing and sheet-metal work.....	375,999	10,049	2.2	2.8	1,028,652	99.3	Residential building only.....	523,706	29,741	6.2	5.7	2,620,117	51.3
Roofing.....	276,780	10,049	2.2	3.8	749,616	99.0	Highway.....	312,296	4,408	0.9	1.1	7,704,704	86.1
Marble and tiling.....	501,955	249,226	51.6	49.7	1,253,173	99.4	Bridge and culvert.....	449,468	4,072	0.4	0.9	2,062,077	99.7
Metal work, n. e. s.....	555,594	30,000	6.2	5.4	1,062,929	100.0	Street paving.....	1,380,817	1,055	0.1	1.1	3,046,111	93.5
Concrete and cinder block						Reinforcing steel							
All classes.....	24,757,167	368,336	100.0	1.5	69,055,756	74.1	All classes.....	24,757,167	819,771	100.0	3.3	69,055,756	74.1
General contractors ²	15,089,368	361,924	98.3	2.4	46,963,217	64.4	General contractors ²	15,089,368	584,586	71.3	3.0	44,772,745	65.9
Building.....	5,701,323	18,077	4.9	0.3	26,666,320	47.6	Building.....	5,472,110	457,419	55.8	8.4	24,475,848	48.8
Building not specialized ²	4,798,051	18,077	4.9	0.3	23,050,723	44.4	Building not specialized ²	4,568,835	395,878	48.3	8.7	20,860,251	45.5
Commercial building only.....	379,566	13,636	2.8	3.6	995,480	79.0	Commercial building only.....	379,566	21,832	2.7	5.8	995,480	79.0
Residential building only.....	523,706	29,741	6.2	5.7	2,620,117	51.3	Residential building only.....	523,706	39,669	4.8	7.0	2,620,117	51.3
Highway.....	312,296	4,408	0.9	1.1	7,704,704	86.1	Highway.....	312,296	5,360	0.7	1.7	776,147	94.3
Bridge and culvert.....	449,468	4,072	0.4	0.9	2,062,077	99.7	Bridge and culvert.....	449,468	38,639	4.1	7.5	2,062,077	99.7
Street paving.....	1,380,817	1,055	0.1	1.1	3,046,111	93.5	Concrete and cinder block						
Sewer, gas, water, conduit.....	435,984	6,851	0.7	1.6	1,471,754	100.0	All classes.....	24,757,167	368,336	100.0	1.5	69,055,756	74.1
Oil and natural gas pipe line.....	4,734,119	5,373	0.6	1.1	7,704,704	86.1	General contractors ²	15,089,368	361,924	98.3	2.4	46,963,217	64.4
Subcontractors.....	9,667,799	6,412	1.7	1.1	22,092,539	97.2	Building.....	5,701,323	18,077	4.9	0.3	26,666,320	47.6
Concreting.....	661,457	646	0.2	1.1	2,001,094	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]

KIND OF MATERIAL AND CLASSIFICATION OF ESTABLISHMENTS	COST OF DESIGNATED MATERIAL				Value of construction business	Indicated per cent of all business done by own force ¹	KIND OF MATERIAL AND CLASSIFICATION OF ESTABLISHMENTS	COST OF DESIGNATED MATERIAL				Value of construction business	Indicated per cent of all business done by own force ¹
	Cost of all materials distributed by kind	Amount	Per cent of—					Cost of all materials distributed by kind	Amount	Per cent of—			
			Total cost	Cost of all distributed materials						Total cost	Cost of all distributed materials		
ST. LOUIS—Continued						ST. LOUIS—Continued							
<i>Reinforcing steel—Contd.</i>						<i>Roofing and sheet metal</i>							
General contractors—Contd.						All classes	\$24,757,167	\$324,738	100.0	1.3	\$69,055,756	74.1	
Street paving	\$1,380,817	\$30,630	3.7	2.2	\$3,046,116	93.5							
Sewer, gas, water, conduit	435,984	56,712	6.9	13.0	1,471,754	100.0							
Levee	9,657	310	(9)	3.2	95,000	100.0							
Oil and natural gas pipe line	4,734,119	602	.1	(9)	7,704,704	86.1							
Subcontractors	\$ 9,667,799	235,185	28.7	2.4	\$22,092,539	97.2							
Concrete	661,457	152,206	18.6	23.0	2,001,094	100.0							
Masonry	825,942	80,979	9.9	9.8	1,906,435	99.9							
Steel erection	448,488	2,000	.2	.4	1,048,400	70.6							
<i>Lumber, rough and finished</i>						<i>Heating and ventilating equipment</i>							
All classes	24,757,167	1,272,400	100.0	5.1	69,055,756	74.1							
General contractors ²	\$15,089,368	1,140,887	89.7	7.6	\$46,963,217	64.4							
Building	5,701,323	888,495	69.8	15.6	20,660,320	47.6							
Building not specialized ²	4,798,051	746,005	58.6	15.5	23,050,723	44.4							
Commercial building only	379,566	36,129	2.8	19.5	995,480	79.0							
Residential building only	523,706	106,861	8.4	20.3	2,620,117	51.3							
Highway	312,296	4,137	.3	1.3	779,147	94.3							
Bridge and culvert	449,488	100,921	7.9	22.6	2,092,077	99.7							
Street paving	1,380,817	4,666	.4	.3	3,046,116	93.5							
Sewer, gas, water, conduit	435,984	10,059	.8	2.3	1,471,754	100.0							
Dredging, river, harbor, etc.	334,400	81,000	6.4	24.2	1,175,000	87.8							
Levee	9,657	2,366	.2	24.5	95,000	100.0							
Oil and natural gas pipe line	4,734,119	49,243	3.9	1.0	7,704,704	86.1							
Subcontractors	\$ 9,667,799	131,519	10.3	1.4	\$22,092,539	97.2							
Carpentering and woodflooring	112,709	30,466	2.4	27.0	268,512	96.3							
Concrete	661,457	28,901	2.3	4.4	2,001,094	100.0							
Elevator construction	1,012,129	4,311	.3	.4	1,611,809	100.0							
Heating and plumbing	\$ 2,834,650	1,000	.1	(9)	\$ 5,610,371	95.2							
Pipe covering	41,000	1,000	.1	2.4	124,000	100.0							
Masonry	825,942	21,669	1.7	2.6	1,906,435	99.9							
Roofing and sheet-metal work	\$ 375,999	1,594	.1	.4	\$ 1,028,652	99.3							
Roofing	276,780	1,594	.1	.6	749,616	99.0							
Excavating	1,500	1,500	1.0	100.0	125,000	98.3							
Metal work, n. e. s.	555,594	42,079	3.3	7.6	1,062,929	100.0							
<i>Millwork</i>						<i>Plumbing and gas fitting equipment</i>							
All classes	24,757,167	512,691	100.0	2.1	69,055,756	74.1							
General contractors ²	\$15,089,368	505,876	98.7	3.4	\$46,963,217	64.4							
Building	5,701,323	498,127	97.2	8.7	26,060,320	47.6							
Building not specialized ²	4,798,051	387,240	75.5	8.1	23,050,723	44.4							
Commercial building only	379,566	34,848	6.8	9.2	995,480	79.0							
Residential building only	523,706	76,039	14.8	14.5	2,620,117	51.3							
Oil and natural gas pipe line	4,734,119	7,748	1.5	.2	7,704,704	86.1							
Subcontractors	\$ 9,667,799	6,816	1.3	.1	\$22,092,539	97.2							
Carpentering and woodflooring	112,709	1,810	4.4	1.6	268,512	96.3							
Metal work, n. e. s.	555,594	5,000	1.0	.9	1,062,929	100.0							
<i>Paints, varnishes, glass</i>						<i>Electrical appliances and supplies</i>							
All classes	24,757,167	466,506	100.0	1.9	69,055,756	74.1							
General contractors ²	\$15,089,368	16,836	3.6	.1	\$46,963,217	64.4							
Building	\$ 5,701,323	10,976	2.4	.2	\$26,060,320	47.6							
Building not specialized ²	4,798,051	4,176	.9	.1	23,050,723	44.4							
Commercial building only	379,566	6,800	1.5	1.8	995,480	79.0							
Bridge and culvert	449,488	596	.1	.1	2,062,077	99.7							
Oil and natural gas pipe line	4,734,119	5,284	1.1	.1	7,704,704	86.1							
Subcontractors	\$ 9,667,799	449,670	96.4	4.7	\$22,092,539	97.2							
Carpentering and woodflooring	112,709	1,191	.3	1.1	268,512	96.3							
Electrical	1,315,243	5,759	1.2	.4	3,409,667	100.0							
Painting and decorating	197,092	197,092	42.2	100.0	992,677	99.3							
Glass and glazing	262,368	221,709	47.5	84.5	584,908	100.0							
Roofing and sheet-metal work	\$ 375,999	19,377	4.2	5.2	\$ 1,028,652	99.3							
Roofing	276,780	19,377	4.2	7.0	749,616	99.0							
Steel erection	448,488	1,379	.3	.3	1,048,400	70.6							
Marble and tiling	501,935	163	(6)	(9)	1,253,173	99.4							
Metal work, n. e. s.	555,594	3,000	.6	.5	1,062,929	100.0							
<i>Roofing and sheet metal</i>						<i>Electrical</i>							
All classes	\$24,757,167	\$324,738	100.0	1.3	\$69,055,756	74.1							
General contractors ²	\$15,089,368	70,704	23.6	.5	\$46,963,217	64.4							
Building	5,701,323	24,537	7.6	.4	26,660,320	47.6							
Building not specialized ²	4,798,051	14,157	4.4	.3	23,050,723	44.4							
Commercial building only	379,566	8,200	2.5	2.2	995,480	79.0							
Residential building only	523,706	2,180	.7	.4	2,620,117	51.3							
Bridge and culvert	449,488	38,900	12.0	8.7	2,062,077	99.7							
Oil and natural gas pipe line	4,734,119	13,327	4.1	.3	7,704,704	86.1							
Subcontractors	\$ 9,667,799	247,074	76.4	2.6	\$22,092,539	97.2							
Carpentering and woodflooring	112,709	154	(9)	.1	268,512	96.3							
Roofing and sheet-metal work	375,999	247,820	76.3	65.9	1,028,652	99.3							
Roofing	276,780	177,189	54.6	64.0	749,616	99.0							
Sheet-metal work	99,219	70,631	21.8	71.2	279,036	100.0							
<i>Heating and ventilating equipment</i>						<i>Plumbing and gas fitting equipment</i>							
All classes	24,757,167	1,638,241	100.0	6.6	69,055,756	74.1							
General contractors ²	\$15,089,368	389,987	23.8	2.6	\$46,963,217	64.4							
Building	\$ 5,701,323	235,398	14.4	4.1	\$26,660,320	47.6							
Building not specialized ²	4,798,051	209,398	12.8	4.4	23,050,723	44.4							
Commercial building only	379,566	26,000	1.6	6.8	995,480	79.0							
Central station, light and power plant	1,708,286	107,063	6.5	6.3	3,257,435	100.0							
Oil and natural gas pipe line	4,734,119	47,526	2.9	1.0	7,704,704	86.1							
Subcontractors	\$ 9,667,799	1,248,254	76.2	12.0	\$22,092,539	97.2							
Carpentering and woodflooring	112,709	5,160	.3	4.6	268,512	96.3							
Heating and plumbing	\$ 2,834,650	1,219,387	74.4	43.0	\$ 5,610,371	95.2							
Heating and piping	1,107,039	1,085,148	66.2	93.0	2,170,634	90.1							
Pipe covering	41,000	13,700	.8	33.4	124,000	100.0							
Plumbing	1,551,429	120,539	7.9	7.8	3,170,436	98.5							
Roofing and sheet-metal work	375,999	23,797	1.4	6.3	1,028,652	99.3							
Roofing	276,780	10,000	.6	3.6	749,616	99.0							
Sheet-metal work	99,219	13,797	.8	13.8	279,036	100.0							
<i>Plumbing and gas fitting equipment</i>						<i>Electrical</i>							
All classes	24,757,167	1,691,283	100.0	6.8	69,055,756	74.1							
General contractors ²	\$15,089,368	170,616	10.1	1.1	\$46,963,217	64.4							
Building	\$ 5,701,323	40,609	2.4	.7	\$26,660,320	47.6							
Building not specialized ²	4,798,051	13,105	.8	.3	23,050,723	44.4							
Commercial building only	379,566	27,500	1.6	7.2	995,480	79.0							
Oil and natural gas pipe line	4,734,119	130,011	7.7	2.7	7,704,704	86.1							
Subcontractors	\$ 9,667,799	1,520,667	89.9	15.7	\$22,092,539	97.2							
Heating and plumbing	\$ 2,834,650	1,520,667	89.9	53.6	\$ 5,610,371	95.2							
Heating and piping	1,107,039	31,600											

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]

KIND OF MATERIAL AND CLASSIFICATION OF ESTABLISHMENTS	COST OF DESIGNATED MATERIAL				Value of construction business	Indicated per cent of all business done by own force ¹	KIND OF MATERIAL AND CLASSIFICATION OF ESTABLISHMENTS	COST OF DESIGNATED MATERIAL				Value of construction business	Indicated per cent of all business done by own force ¹
	Cost of all materials distributed by kind	Amount	Per cent of—					Cost of all materials distributed by kind	Amount	Per cent of—			
			Total cost	Cost of all distributed materials						Total cost	Cost of all distributed materials		
ST. LOUIS—Continued						ST. LOUIS—Continued							
<i>Elevators, dumb-waiters, and equipment</i>						<i>Pipe: Cast-iron, sheet and tube steel, etc.—Contd.</i>							
All classes.....	\$24,757,167	\$901,205	100.0	3.9	\$69,055,756	74.1	General contractors—Contd.						
General contractors.....	\$14,860,155	1,840	.2	(°)	44,772,745	65.9	Street paving.....						
Building.....	5,472,110	1,840	.2	(°)	24,475,848	48.8	Levee.....						
Building not specialized.....	4,568,838	640	.1	(°)	20,860,251	45.5	Central station, light and power plant.....						
Commercial building only.....	370,566	1,200	.1	.3	995,480	78.0	Oil and natural gas pipe line.....						
Subcontractors.....	\$9,667,799	959,455	99.8	19.9	22,092,539	97.2	Subcontractors.....						
Electrical.....	1,315,243	9,792	1.0	.7	3,409,697	100.0	Heating and plumbing.....						
Elevator construction.....	1,012,129	936,020	97.4	92.5	1,611,809	100.0	Heating and piping.....						
Ornamental iron.....	180,852	13,673	1.4	10.4	217,571	99.0	Plumbing.....						
<i>Pipe: Cast-iron, sheet and tube steel, etc.³</i>						<i>Machinery</i>							
All classes.....	\$24,757,167	3,885,922	100.0	15.7	\$69,055,756	74.1	All classes.....						
General contractors.....	\$14,860,155	3,860,103	99.3	26.0	44,772,745	65.9	General contractors.....						
Building.....	5,472,110	3,486	.1	.1	24,475,848	48.8	Central station, light and power plant.....						
Building not specialized.....	4,568,838	3,486	.1	.1	20,860,251	45.5	Oil and natural gas pipe line.....						
Highway.....	312,296	1,152	(°)	.4	776,147	94.3							

¹ Based upon the difference between the total value of all construction work reported and the value of subcontract work let.
² Includes operative builders.
³ Includes cost of materials reported by establishments which did not include designated material in their distributed lists.
⁴ Includes construction work reported by establishments which did not include the designated material in their distributed lists.
⁵ Less than one-tenth of 1 per cent.
⁶ See footnote 5 of Table 9 on page 696
⁷ Includes cost of materials reported by operative builders who did not include the designated material in their distributed lists.
⁸ Includes construction work reported by operative builders who did not include the designated material in their distributed lists.
⁹ Includes cost of materials 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.
¹¹ See footnote 6 of Table 9 on page 696.

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]

CLASSIFICATION OF ESTABLISHMENTS	Total cost of all materials	COST OF ALL MATERIALS DISTRIBUTED BY KIND		Sand, gravel, stone, slag, cinders, etc.	Brick (face, common, fire, paving, etc.)	Tile (fire-proofing)	Tile, facing, terra cotta, floor and wall	Concrete and cinder block	Cut stone, granite, and marble	Riprap, rubble, etc.	Cement	Lime	Plaster, etc.	Structural steel
		Amount	Per cent of total											
MISSOURI.....	\$52,422,049	\$42,695,600	81.3	\$4,206,745	\$1,432,981	\$261,236	\$729,915	\$576,744	\$1,087,739	\$668,986	\$2,732,512	\$87,101	\$221,757	\$2,448,906
Operative builders.....	2,333,046	895,133	38.4	63,135	37,030	5,288	24,243	48,478	10,980	14,745	23,916	2,404	36,770	8,747
General contractors.....	31,522,898	26,322,586	83.5	3,678,889	874,760	132,847	204,601	515,731	527,893	628,214	2,356,234	47,130	74,633	1,722,661
Building.....	14,650,528	11,226,407	76.6	1,391,738	811,433	132,847	200,192	100,935	344,584	13,737	1,194,746	42,812	74,033	1,109,546
Building not specialized.....	10,901,737	9,232,296	84.7	1,231,990	644,530	100,525	180,446	73,947	261,271	9,535	1,077,686	39,194	49,481	1,050,869
Commercial building only.....	2,105,795	850,979	40.4	65,476	72,904	30,872	40,585	22,405	35,350	432	37,707	806	10,500	26,976
Manufacturing building only.....	164,831	33,831	20.5	4,700	863									
Residential building only.....	1,478,165	1,109,301	75.0	94,272	89,290	1,460	39,161	3,720	47,993	3,770	79,353	2,812	14,052	31,700
Highway.....	2,493,382	2,150,135	86.2	1,060,237	19,276			7,104	14,686	21,380	432,245	775		61,149
Bridge and culvert.....	1,790,591	1,730,589	96.6	210,742	4,472				9,000	227,804	211,386	2,500		416,005
Grading.....	30,993	24,314	78.4	18,566	926						400			1,300
Street paving.....	2,006,793	1,845,681	70.8	628,420	10,845			217,847	159,593	56,900	282,409	137		6,872
Sewer, gas, water, conduit.....	930,571	698,710	75.1	99,045	10,435			189,845			28,237			6,918
Dam and reservoir.....	300,304	300,304	100.0	85,080	4,000						50,794			
Waterworks.....	72,678	72,678	100.0	3,000							2,000			600
Dredging, river, harbor, etc.....	777,358	777,358	100.0								205,682			6,400
Levee.....	9,657	9,657	100.0	2,914							2,033			
Railroad.....	1,332,470	976,180	73.2	167,643							113,641			92,904
Central station, light and power plant.....	1,768,849	1,752,849	99.1	138	8,000						20,000			
Oil and natural gas pipe line.....	4,734,119	4,734,119	100.0	11,366	5,373		4,409				17,543	912	600	20,308
Telephone line and system.....	24,605	24,605	100.0											
Subcontractors.....	\$18,566,099	15,377,781	82.8	464,721	520,271	123,101	441,071	12,535	548,896	26,027	343,362	37,501	110,354	717,497
Carpentering and woodflooring.....	202,141	144,014	71.2	323							254			
Concreting.....	1,859,763	883,399	47.5	255,471		12,495	1,800	646		2,000	225,116	450		15,900
Electrical.....	1,938,792	1,925,992	99.3											
Elevator construction.....	1,012,129	1,012,129	100.0											23,159

See footnotes on p. 706.

CONSTRUCTION—MISSOURI

705

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 materials	COST OF ALL MATERIALS DISTRIBUTED BY KIND		Sand, gravel, stone, slag, cinders, etc.	Brick (face, common, fire, paving, etc.)	Tile (fire-proofing)	Tile, facing, terra cotta, floor and wall	Concrete and cinder block	Cut stone, granite and marble	Riprap, rubble, etc.	Cement	Lime	Plaster, etc.	Structural steel
		Amount	Per cent of total											
MISSOURI—Continued.														
Subcontractors—Continued.														
Heating and plumbing	\$6,564,359	\$5,590,398	85.3	\$1,175	\$325		\$4,206					\$4,054		
Heating and piping	2,075,158	1,680,278	81.0	25	100									
Pipe covering	377,000	377,000	100.0	1,000									4,000	
Plumbing	2,972,719	2,720,072	91.5	50	25		4,206						600	
Plumbing and heating combined	856,257	538,823	62.9	100	200								54	
Automatic temperature control	30,733	30,733	100.0											
Automatic sprinkler systems	252,492	252,492	100.0											
Masonry	1,391,730	920,219	66.1	63,441	487,354	\$87,000	22,824	\$10,516				47,379	\$25,231	\$908
Painting and decorating	359,831	359,831	100.0											
Glass and glazing	306,730	306,730	100.0									9,779		
Plastering and lathing	236,397	232,958	98.8	7,358								9,907	\$109,874	
Roofing and sheet-metal work	1,282,042	1,178,001	91.9	5,564			10,649						108	
Roofing	831,374	745,909	89.7	5,564			10,649						108	
Sheet-metal work	337,068	319,092	94.6											
Roofing and sheet metal combined	113,000	113,000	100.0											
Steel erection	593,188	593,188	100.0											513,109
Stone work	510,630	300,630	70.6	16,260					\$308,468	\$24,027		10,634	1,221	
Marble and tiling	1,215,410	776,446	63.9	78,724	13	23,000	371,502		240,331			40,183	212	480
Excavating	10,500	10,500	100.0											
Ornamental iron	282,075	130,852	46.3											
Bridge and culvert	87,240	87,240	100.0	32,856									3,376	1,095
Railroad	230,000	30,000	13.0											
Power-plant work	41,155	41,155	100.0	1,519	32,579				1,373	107		1,002	480	2,232
Metal work, n. e. s.	728,849	659,474	90.5	2,000			30,000							161,035
Flooring, n. e. s.	15,625	15,625	100.0											
KANSAS CITY	15,733,407	12,569,848	79.9	1,279,345	300,609	66,477	181,056	97,849	121,847	488,959	1,181,539	18,601	143,941	694,018
Operative builders	1,818,504	593,963	32.7	25,905	23,744	4,700	22,940	23,116	10,480	6,025	16,784	2,304	12,950	6,080
General contractors	9,013,166	7,845,387	87.0	1,163,206	244,145	61,777	56,517	73,360	68,289	478,934	1,119,441	7,970	27,081	536,937
Building	4,436,422	3,751,183	84.6	422,621	203,481	61,777	56,517	66,256	68,289	2,541	486,125	7,195	27,081	117,593
Building not specialized	3,231,492	2,875,441	89.0	387,115	124,426	33,082	29,408	39,267	22,398	1,564	432,367	6,075	26,811	101,717
Commercial building only	590,001	471,413	79.9	16,714	42,926	27,695	27,049	22,405	3,020	432	32,818	649		14,176
Manufacturing building only	164,831	33,831	20.5		4,706									
Residential building only	443,498	370,498	83.5	18,705	31,435	1,000		3,720	41,965		20,946	471	270	1,700
Highway	1,021,925	806,985	84.8	315,193	18,791			7,104		4,000	316,952			11,600
Bridge and culvert	1,117,851	1,117,851	100.0	85,986						220,000	119,429			322,936
Grading	23,114	23,114	100.0		926									1,300
Street paving	291,344	148,440	51.0	65,009	7,000								25,000	
Sewer, gas, water, conduit	277,710	195,849	70.5	3,840	1,950									2,118
Dam and reservoir	300,304	300,304	100.0	85,080	4,000								50,794	
Waterworks	12,598	12,598	100.0											
Dredging, river, harbor, etc.	442,958	442,958	100.0							151,082				
Railroad	1,056,137	953,362	90.3	107,645						100,711		113,641		82,290
Central station, light and power plant	8,138	8,138	100.0	138	8,000									
Telephone line and system	24,605	24,605	100.0											
Subcontractors	4,001,737	4,130,495	84.3	90,174	32,717		111,593	1,373	42,578	2,000	45,314	8,207	103,910	150,101
Concrete	328,200	183,212	55.8	20,156						2,000	23,462			13,774
Electrical	482,770	463,970	96.1											
Heating and plumbing	2,347,697	1,924,951	82.0	76	125									
Heating and piping	662,100	321,985	48.6	25	100									
Pipe covering	336,000	336,000	100.0											
Plumbing	795,418	779,418	98.0	50	25									
Plumbing and heating combined	370,794	204,323	55.1											
Automatic temperature control	30,733	30,733	100.0											
Automatic sprinkler systems	252,492	252,492	100.0											
Painting and decorating	99,484	99,484	100.0											
Glass and glazing	104,362	104,362	100.0											
Plastering and lathing	219,131	215,692	98.4	5,882									878	7,072
Roofing and sheet-metal work	550,914	520,914	94.6	1,534										26
Roofing	378,869	349,309	92.1	1,534										
Sheet-metal work	156,545	156,545	100.0											
Roofing and sheet metal combined	15,000	15,000	100.0											
Steel erection	144,700	144,700	100.0											133,000
Marble and tiling	282,688	210,938	74.6	28,153	12		111,593		42,471		16,472	115	365	1,095
Bridge and culvert	87,240	87,240	100.0	32,856										
Railroad	30,000	30,000	100.0											
Power-plant work	41,155	41,155	100.0	1,519	32,579			1,373	107		1,002	480		2,232
Metal work, n. e. s.	103,880	103,880	100.0											
ST. LOUIS	29,946,509	24,757,187	82.7	1,953,572	972,358	187,882	483,324	388,338	823,706	147,164	1,133,297	54,301	64,646	1,640,765
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	14,860,155	81.9	1,567,845	535,374	64,193	181,529	346,592	375,735	121,417	838,883	26,690	24,381	975,905
Building	7,677,587	5,472,110	71.3	682,217	517,566	64,193	177,120	2,715	202,456	5,413	442,386	25,778	23,781	857,299
Building not specialized	5,305,823	4,568,838	84.7	561,960	430,483	61,016	133,848	2,715	167,609	2,188	382,334	25,555	4,209	817,349
Commercial building only	1,497,194	379,566	25.4	48,762	29,978	3,177	13,536		31,424		4,889	157	10,500	12,800
Residential building only	784,570	528,706	68.8	71,505	48,105		20,741		3,423	3,225	55,193	60	9,072	27,150
Highway	477,956	312,206	65.3	152,325	457				4,086		85,800			41,936
Bridge and culvert	509,470	449,468	88.2	103,446	4,072				9,000	7,404	67,000			32,616
Grading	7,879	7,879	100.0	800							400			
Street paving	1,820,591	1,380,817	75.8	526,057	1,055			155,056	159,593	54,600	186,586			1,872
Sewer, gas, water, conduit	685,984	435,984	74.4	88,720	6,851			188,791			17,135			4,800
Dredging, river, harbor, etc.	334,400	334,400	100.0							54,000				6,400
Levee	9,657	9,657	100.0	2,914							2,033			
Railroad	276,333	21,818	7.9											10,674
Central station, light and power plant	1,708,286	1,708,286	100.0								20,000			
Oil and natural gas pipe line	4,734,110	4,734,119	100.0	11,366	5,373		4,409				17,543	912	600	20,308

See footnotes on p. 706.

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 materials	COST OF ALL MATERIALS DISTRIBUTED BY KIND		Sand, gravel, stone, slag, cinders, etc.	Brick (face, common, fire, paving, etc.)	Tile (fire-proofing)	Tile, facing, terra cotta, floor and wall	Concrete and cinder block	Cut stone, granite and marble	Riprap, rubble, etc.	Cement	Lime	Plaster, etc.	Structural steel
		Amount	Per cent of total											
ST. LOUIS—Continued.														
Subcontractors.....	\$11,452,682	\$9,667,799	84.4	\$358,780	\$424,823	\$123,101	\$300,492	\$6,412	\$447,471	\$24,027	\$277,782	\$27,511	\$6,444	\$564,488
Carpentering and wood flooring.....	112,709	112,709	100.0	323							254			
Concreting.....	902,336	661,457	73.3	223,815		12,495	1,800	646			187,634	450		135
Electrical.....	1,315,243	1,315,243	100.0											
Elevator construction.....	1,012,129	1,012,129	100.0											23,159
Heating and plumbing.....	3,213,295	2,834,650	88.2	1,000							4,500			
Heating and piping.....	1,321,741	1,167,036	88.3											
Pipe covering.....	41,000	41,000	100.0	1,000							4,000			
Plumbing.....	1,743,591	1,551,429	89.0								600			
Plumbing and heating combined.....	106,963	75,185	70.3											
Masonry.....	1,267,197	825,942	65.2	59,275	424,823	87,008	8,817	5,760			41,187	23,508		
Painting and decorating.....	197,082	197,082	100.0											
Glass and glazing.....	262,368	262,368	100.0								9,779			
Plastering and lathing.....	67,266	67,266	100.0	1,476								2,285	6,329	
Roofing and sheet-metal work.....	450,040	375,999	83.5	4,030			10,649				83			
Roofing.....	332,245	279,780	83.3	4,030			10,649				83			
Sheet-metal work.....	117,795	99,219	84.2											
Steel erection.....	448,488	448,488	100.0											350,109
Stone work.....	498,980	348,030	69.9	16,200					206,758	24,027	10,634	1,221		
Marble and tiling.....	498,437	501,955	100.6	50,571		23,600	249,226		150,713		23,711	97	115	
Excavating.....	1,500	1,500	100.0											
Ornamental iron.....	270,038	130,852	48.5											
Metal work, n. e. s.....	624,969	555,694	88.9	2,000			30,000							161,085
Flooring, n. e. s.....	15,625	15,625	100.0											

CLASSIFICATION OF ESTABLISHMENTS	Reinforcing steel	Cast iron, miscellaneous, excluding pipe	Metal doors, windows and trim	Metal and wire lath and furring	Ornamental metal work	Lumber, rough and finished	Laths, shingles, and shakes	Mill-work	Composition board	Water-proofing materials	Hardware, rough and finished	Paints, varnishes, and glass	Roofing and sheet metal	Finished flooring, n. e. s.	Screens, shades, awnings, etc.
MISSOURI.....	\$2,028,462	\$91,515	\$432,422	\$117,642	\$245,620	\$8,088,219	\$76,554	\$1,016,173	\$463,363	\$321,541	\$470,157	\$783,166	\$1,280,978	\$178,210	\$89,533
Operative builders.....	8,435	240	4,045	10,180	2,210	252,238	26,291	124,500	4,000	810	25,883	20,609	4,025	18,186	8,284
General contractors.....	1,066,828	35,807	180,342	30,423	25,206	2,588,740	36,727	884,857	56,939	245,418	423,809	85,367	267,367	87,725	23,640
Building.....	1,040,900	11,444	172,584	30,383	21,340	1,682,633	36,727	877,109	51,601	31,763	340,326	76,890	180,972	87,725	23,649
Building not specialized.....	880,145	5,506	147,324	7,996	18,022	1,371,327	28,164	644,100	27,546	28,204	290,421	48,876	139,424	75,725	12,088
Commercial building only.....	79,115	5,132	22,735	12,580	2,824	92,007		56,604	1,075	2,237	19,842	11,068	12,036	1,850	2,500
Manufacturing building only.....						6,193					800	2,000	3,475		
Residential building only.....	81,640	746	2,525	9,807	500	213,103	8,503	176,405	22,980	1,322	29,263	14,946	26,037	10,150	9,061
Highway.....	240,160	1,173				43,746				271	3,521	200	246		
Bridge and culvert.....	95,730	3,485				271,924				5,143	4,678	596	38,900		
Grading.....	1,818					304									
Street paving.....	53,989	1,555				10,903				140	4,598	281			
Sewer, gas, water, conduit.....	64,734	6,125		40		18,117				380	8,724				
Dam and reservoir.....	69,305					26,400									
Waterworks.....	450	700	150			880									
Dredging, river, harbor, etc.....						190,752					36,005				
Levee.....	310	89				2,366									
Railroad.....	98,830	11,296			3,860	291,478				9,362	22,996	2,136	23,922		
Central station, light and power plant.....											961				
Oil and natural gas pipe line.....	602		7,608			49,243		7,748	5,338	198,359	2,000	5,264	13,327		
Subcontractors.....	353,289	55,408	247,435	77,089	218,204	247,235	13,536	6,816	392,424	75,313	20,465	677,189	1,019,586	72,299	57,650
Carpentering and wood flooring.....						61,770		1,810	27,440	1,811	1,407	154		41,606	
Concreting.....	183,754					89,553	9,000			52,410	11,811				
Electrical.....						50						5,859			
Elevator construction.....						4,311									
Heating and plumbing.....		17,218		100		1,035			356,000	1,200		75	6,522	400	
Heating and piping.....		15,218											5,922		
Pipe covering.....				100		1,000			356,000	1,200					
Plumbing.....						35						25	600		
Plumbing and heating combined.....		2,000												400	
Masonry.....	80,799					21,669									
Painting and decorating.....															
Glass and glazing.....			25,000									316,823			
Plastering and lathing.....	60,000		2,904	76,111		2,195	3,976		558	1,979		324,803			
Roofing and sheet-metal work.....			250	650	17,991	1,676	500		8,376	17,772	1,228	22,302	1,012,028	14,722	
Roofing.....						1,676	500		7,626	17,772	578	20,652	629,603	14,722	
Sheet-metal work.....			250	650	17,991				750		650	150	270,925		
Roofing and sheet metal combined.....												1,500	111,500		
Steel erection.....	2,000	10,000	1,780		62,640							2,719			
Marble and tiling.....				228		300			50	60	310	238			
Excavating.....	2,000					1,500					3,000				
Ornamental iron.....					115,577										
Bridge and culvert.....	24,556					20,569									
Power plant work.....			280			628							173	882	
Metal work, n. e. s.....		28,190	217,221		21,996	42,079		5,000		2,000	730	3,000		57,650	
Flooring, n. e. s.....										64				15,571	

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.

CONSTRUCTION—MISSOURI

707

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

[See note at head of this table]

CLASSIFICATION OF ESTABLISHMENTS	Reinforcing steel	Cast iron, miscellaneous, excluding pipe	Metal doors, windows and trim	Metal and wire lath and furring	Ornamental metal work	Lumber, rough and finished	Laths, shingles, and shakes	Mill-work	Composition board	Water-proofing materials	Hardware, rough and finished	Paints, varnishes, and glass	Roofing and sheet metal	Finished flooring, n. e. s.	Screens, shades, awnings, etc.
KANSAS CITY	\$786,729	\$18,311	\$143,916	\$45,070	\$37,331	\$1,332,841	\$33,744	\$312,361	\$374,851	\$39,621	\$178,233	\$227,439	\$632,645	\$16,432	\$66,709
Operative builders.....	8,145	240	4,645	8,020	2,210	147,739	20,471	85,032	2,650	610	18,627	20,109	2,650	10,401	6,250
General contractors.....	670,902	18,071	97,631	10,837	12,581	1,153,478	12,200	227,329	33,475	20,562	151,260	44,466	120,232	6,031	10,459
Building.....	421,850	3,904	97,631	10,837	8,721	544,767	12,200	227,329	33,475	9,435	115,767	42,130	96,310	6,031	10,459
Building not specialized.....	323,786	3,086	77,900	2,067	7,497	420,544	8,200	143,717	14,301	8,816	97,442	28,716	81,207	4,181	6,659
Commercial building only.....	57,233	132	19,381	3,580	724	55,878		21,750		397	9,350	4,268	8,330	1,850	1,300
Manufacturing building only.....						6,193					800	2,000	3,475		
Residential building only.....	40,831	746	350	5,190	500	62,152	4,000	61,850	19,084	222	8,175	7,146	7,792		2,500
Highway.....	33,975					7,852									
Bridge and culvert.....	38,224					161,528				1,549					
Grading.....	1,818					304									
Street paving.....	4,000	1,011				5,397					3,000	200			
Sewer, gas, water, conduit.....	2,900	1,800				6,000				216					
Dam and reservoir.....	60,305					26,400									
Dredging, river, harbor, etc.....						109,752					15,005				
Railroad.....	98,830	11,290			3,800	291,478				9,362	17,488	2,136	23,922		
Subcontractors.....	107,682		41,640	26,207	22,540	81,624	1,073		338,726	18,449	8,346	162,864	509,763		50,000
Concreting.....	23,126					57,805				12,995	6,851				
Electrical.....						50						100			
Heating and plumbing.....						35			336,000			25	4,982		
Heating and piping.....													4,382		
Pipe covering.....									336,000						
Plumbing.....						35						25	600		
Painting and decorating.....												56,482			
Glass and glazing.....												103,094			
Plastering and lathing.....	60,000		600	26,029		2,195	513				1,100				
Roofing and sheet-metal work.....						82	500			2,676	5,428	135	1,575	503,899	
Roofing.....						82	500			2,676	5,428	135	75	333,854	
Sheet-metal work.....														150,545	
Roofing and sheet metal combined.....															
Steel erection.....			1,780		7,640								1,500	13,600	
Marble and tiling.....				178		300				50	20	200	1,340		
Bridge and culvert.....	24,550					20,569							75		
Power plant work.....			280			628							173	882	
Metal work, n. e. s.....			38,980		14,900										50,000
ST. LOUIS	819,771	66,241	262,772	64,488	202,994	1,272,406	36,151	512,691	65,980	272,864	226,601	468,508	324,738	125,376	18,828
Operative builders.....				2,104		84,534	4,820	20,118			5,714	500	625	6,785	1,234
General contractors.....	584,586	11,833	57,227	12,132	10,440	1,056,353	18,808	470,757	13,032	216,000	212,508	16,336	76,139	46,692	9,944
Building.....	457,419	5,042	49,619	12,022	10,440	803,961	18,868	472,009	7,694	13,883	172,914	10,476	23,912	46,692	9,944
Building not specialized.....	395,878	42	40,265	1,550	8,340	661,471	16,980	361,122	3,248	11,043	146,708	3,676	13,532	45,917	4,658
Commercial building only.....	21,882	5,000	3,354	9,000	2,100	30,129		34,848	1,075	1,840	10,492	6,800	8,200	1,200	
Residential building only.....	39,659		1,542			106,361	1,888	76,039	3,371	1,000	15,714		2,180	775	4,086
Highway.....	5,380	1,173				4,137									
Bridge and culvert.....	33,533	2,485				100,921				3,594	1,064	596	38,900		
Street paving.....	30,630	468				4,666					1,268				
Sewer, gas, water, conduit.....	56,712	2,570		40		10,059				164	8,724				
Dredging, river, harbor, etc.....						81,000					21,000				
Levee.....	310	89				2,360									
Railroad.....			7,008			49,243		7,748	5,338	198,359	5,508		5,264	13,327	
Oil and natural gas pipe line.....	602										2,000				
Subcontractors.....	235,185	53,408	205,545	50,232	192,554	131,519	12,463	6,816	52,948	56,864	8,469	449,670	247,974	71,899	7,660
Carpentering and wood flooring.....						30,465		1,816	27,440	1,811	1,407	1,191	154	41,606	
Concreting.....	152,206					28,901	9,000			39,415	4,900				
Electrical.....						4,311							5,759		
Elevator construction.....						1,000			20,000	1,200					
Heating and plumbing.....		15,218		100						1,200					
Heating and piping.....		15,218													
Pipe covering.....				100		1,000			20,000	1,200					
Masonry.....	80,979					21,669									
Painting and decorating.....												197,092			
Glass and glazing.....			25,000									221,709			
Plastering and lathing.....			2,304	50,082			3,463		558		819				
Roofing and sheet-metal work.....					14,881	1,594			4,950	12,344	443	19,377	247,820	14,722	
Roofing.....					14,881	1,594			4,950	12,344	443	19,377	177,189	14,722	
Sheet-metal work.....													70,631		
Steel erection.....	2,000	10,000			55,000								1,379		
Marble and tiling.....				50						40	110		163		
Excavating.....						1,560									
Ornamental iron.....					115,577										
Metal work, n. e. s.....		28,190	178,241		7,096	42,079		5,000		2,000	730	3,000			7,660
Flooring, n. e. s.....										54				15,571	

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

(See note at head of this table)

CLASSIFICATION OF ESTABLISHMENTS	Heating and ventilating equipment	Plumbing and gas-fitting equipment	Electrical appliances and supplies	Elevators, dumb-waiters, etc.	Pipe: Drain tile, vitrified, concrete, etc.	Pipe: Cast iron, sheet and tube steel, etc.	Wire cable, guards, and fencing	Bituminous paving materials	Wood piling and timber	Ready-mixed concrete	Machinery	Freight hauling or trucking to job	Metal products, n. e. s., including steel furniture, etc.	Mineral products (non-metallic), n. e. s.	Miscellaneous
MISSOURI	\$2,020,540	\$3,197,406	\$3,570,868	\$1,240,582	\$421,381	\$4,026,989	\$67,867	\$425,550	\$540,916	\$423,918	\$495,431	\$30,232	\$176,994	\$58,832	\$184,991
Operative builders	20,625	41,640	20,270	9,700	5,230		100						935		532
General contractors	442,304	254,450	1,512,647	271,427	348,563	3,927,787	51,481	400,728	510,916	361,436	495,431	31,923	141,502	23,074	95,983
Building	269,928	109,584	137,840	271,427	13,570	5,486	2,184	9,104	0,000	143,400	22,200	7,444		23,074	63,006
Building not specialized	223,250	60,123	84,666	270,227	10,576	3,480	2,184	629	6,000	56,254	22,200	5,884		3,188	39,218
Commercial building only	20,506	37,461	20,837	1,200				1,200		86,320		1,500		163	1,105
Manufacturing building only															15,800
Residential building only	17,172	12,000	25,837		3,000	2,000					817			10,723	6,883
Highway		1,500			25,179	11,568		544	142,380						23,791
Bridge and culvert					23,214	800		423	14,000	169,535				7,500	
Grading					1,000										
Street paving			2,567		19,044	8,243		7,275							
Sewer, gas, water, conduit	17,787	4,237	21,754		180,134	7,854	3,761	233,307		120,427		12,327			6,277
Dam and reservoir					57,078	9,700	947	1,937		26,000					3,646
Waterworks		9,118	500		22,000	31,480									
Dredging, river, harbor, etc.									317,175						268
Levee			728			46									
Railroad			2,738		5,547	8,084		14,336		5,636					
Central station, light and power plant	107,063		1,152,072			370,734			12,870						
Oil and natural gas pipe line	47,526	130,011	194,948		1,701	3,467,792	7,030						134,092		
Telephone line and system															
Subcontractors	2,163,611	2,001,316	2,028,749	959,455	67,579	99,202	16,286	24,822	30,000	62,482		7,309	34,467	35,758	67,471
Carpentering and wood flooring	5,160				800			1,082		20,084					2,100
Concrete															
Electrical			1,909,821	9,702			500								31,029
Elevator construction			17,610	936,020											
Heating and plumbing	2,120,975	2,001,066	33,316		62,776	88,282									
Heating and piping	1,411,813	153,509			29,483	64,708									
Pipe covering	13,700														
Plumbing	438,655	2,202,545	32,810		29,871	10,554									
Plumbing and heating combined	226,574	202,520	500		3,425	13,000									
Automatic temperature control	30,733														
Automatic sprinkler systems		252,492													
Masonry								636		42,398				20,878	
Painting and decorating			43,002												
Glass and glazing												1,268		5,880	
Plastering and lathing								150							7,068
Roofing and sheet-metal work	37,476	250													2,659
Roofing	10,000									23,740					2,659
Sheet-metal work	27,476	250								23,740					
Steel erection						940									
Marble and tiling												2,790	4,286		13,133
Excavating					4,000										
Ornamental iron				13,673											1,602
Bridge and culvert												3,251			1,538
Railroad									30,000						
Metal work, n. e. s.			25,000			10,000	15,000						30,181		8,342
KANSAS CITY	645,754	899,277	855,759	278,744	220,957	77,528	37,254	96,785	344,275	232,825	22,200	13,282	3,110	10,911	53,207
Operative builders	10,625	40,640	20,270	9,700	300		100								532
General contractors	35,227	62,705	86,851	269,044	202,639	29,785	37,004	91,785	314,275	212,741	22,200	5,973		10,911	36,953
Building	17,440	49,410	65,373	269,044	626			79		132,505	22,200	84		10,911	23,129
Building not specialized	9,202	30,449	46,615	269,044	626			79		46,176	22,200	84		3,188	6,224
Commercial building only	3,506	9,961	2,037							86,320				163	1,105
Manufacturing building only															15,800
Residential building only	4,672		16,721											7,723	
Highway					3,569	3,317									
Bridge and culvert															
Grading					1,000										
Street paving					14,557	350									
Sewer, gas, water, conduit	17,787	4,237	18,740		120,262	7,854	645								
Dam and reservoir					57,078	6,700	947								
Waterworks		9,118				3,480									
Dredging, river, harbor, etc.									21,076	145,175					268
Railroad			2,738		5,547	8,084		14,336							
Telephone line and system															
Subcontractors	590,902	895,872	539,638		18,018	47,741	150	5,000	30,000	20,084		7,309	3,110		15,722
Concrete					800					20,084					2,100
Electrical			463,820												
Heating and plumbing	590,902	895,872	32,810		17,218	46,801									
Heating and piping	196,760	73,666			2,251	44,801									
Plumbing	263,480	465,320	32,810		14,967	2,000									
Plumbing and heating combined	99,929	104,304													
Automatic temperature control	30,733														
Automatic sprinkler systems		252,492													
Painting and decorating			43,002												
Glass and glazing												1,268			
Plastering and lathing								150							7,068
Roofing and sheet-metal work															
Roofing															
Steel erection						940									
Marble and tiling												2,790	3,110		6,016
Bridge and culvert												3,251			1,538
Railroad									30,000						

See footnotes on p. 709.

CONSTRUCTION—MISSOURI

709

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

[See note at head of this table]

CLASSIFICATION OF ESTABLISHMENTS	Heating and ventilating equipment	Plumbing and gas-fitting equipment	Electrical appliances and supplies	Elevators, dumb-waiters, etc.	Pipe: Drain tile, vitrified, concrete, etc.	Pipe: Cast iron, sheet and tube steel, etc.	Wire cable, guards, and fencing	Bituminous paving materials	Wood piling and timber	Ready-mixed concrete	Machinery	Freight hauling or trucking to job	Metal products, n. e. s., including steel furniture, etc.	Mineral products (non-metallic), n. e. s.	Miscellaneous ³
ST. LOUIS.....	\$1,638,241	\$1,691,283	\$2,709,201	\$961,295	\$92,946	\$3,885,922	\$28,983	\$255,491	\$177,636	\$100,081	\$470,227	\$7,998	\$173,878	\$47,921	\$89,307
Operative builders.....	1,000	1,000			4,330								935		
General contractors.....	388,987	169,610	1,365,869	1,840	52,848	3,860,103	13,327	235,669	177,636	57,633	470,227	7,998	141,592	12,163	23,286
Building.....	234,398	39,605	33,430	1,840	2,397	3,486	1,334	2,750		10,895		1,560		12,163	12,363
Building not specialized.....	208,398	12,105	5,364		2,397	3,486	1,334	550		10,075					5,805
Commercial building only.....	20,000	27,500	24,800	1,200				1,200				1,560		163	
Residential building only.....			3,200							817				12,000	6,558
Highway.....					10,080	1,152	244	1,000							1,000
Bridge and culvert.....					22,914		423	3,026							
Street paving.....			2,567		67	7,893		14,000							
Sewer, gas, water, conduit.....			3,014		14,699		3,116	213,956		21,738		6,438	7,500		6,277
Dredging, river, harbor, etc.....								1,937		25,000					3,640
Levee.....			728				1,171		172,000						
Railroad.....									5,630						
Central station, light and power plant.....	107,063		1,132,182			379,734						60,807			
Oil and natural gas pipe line.....	47,526	130,011	194,948		1,701	3,407,702	7,039					400,920	134,092		
Subcontractors.....	1,248,254	1,520,667	1,342,332	959,455	35,759	25,810	15,636	10,822		42,398			31,351	35,758	46,021
Carpentering and wood flooring.....	5,160							1,082							
Electrical.....			1,200,722	9,792											31,020
Elevator construction.....			17,610	936,020											
Heating and plumbing.....	1,219,387	1,520,667			35,759	15,810									
Heating and piping.....	1,085,148	31,600			26,305	8,705									
Pipe covering.....	13,700														
Plumbing.....	120,539	1,413,882			9,454	7,054									
Plumbing and heating combined.....		75,185													
Masonry.....							630			42,398				29,878	
Glass and glazing.....														5,880	
Roofing and sheet-metal work.....	23,707							18,740							2,650
Roofing.....	10,000							18,740							2,650
Sheet-metal work.....	13,707														
Marble and tiling.....													1,170		2,880
Ornamental iron.....				13,673											1,002
Metal work, n. e. s.....			25,000			10,000	15,000						30,181		8,342

³ Includes the reported cost of cast forms, beads, etc.; chemicals and chemical products, sealing materials; and textiles and caulking materials. For total cost of these items see Table 9.

CONSTRUCTION—MISSOURI

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

TYPES OF WORK	MISSOURI 1930 population, 3,629,367								KANSAS CITY 1930 population, 399,746			ST. LOUIS 1930 population, 321,860			REMAINDER OF STATE 1930 population, 2,407,001		
	Known contracting establishments				Volume of business reported				Volume of business			Volume of business			Volume of business		
	Total number	Inactive in 1929	Active in 1929		Number of reporting establishments	Per cent of active	Amount	Average per establishment	Total number active in 1929	Number of reporting establishments	Amount	Total number active in 1929	Number of reporting establishments	Amount	Total number active in 1929	Number of reporting establishments	Amount
Total establishments canvassed (under \$25,000)	1,478	190	1,388														
Total contractors, type of work unknown	18	1	17		5	29.4	\$77,546	\$15,509	7	1	\$24,866	4	2	\$29,680	6	2	\$23,000
Total general and subcontractors classified	1,460	89	1,371	100.0	477			260			274			837			
Total general contractors classified	362	43	319	23.3	106	33.2	1,009,035	9,425	30	4	66,221	39	6	61,185	250	96	881,679
Building	272	32	240	17.5	85	35.4	778,631	9,160	24	4	66,221	26	4	40,329	190	77	672,681
Highway	73	10	63	4.6	18	28.6	200,698	11,150	3			12	1	8,000	48	17	102,698
Bridge and culvert	5		5	.4	1	20.0	1,900	1,900							5	1	1,900
Sewer, gas, water, conduit	5	1	4	.3	2	50.0	27,856	13,928				1	1	12,856	3	1	15,000
Waterworks	2		2	.1											2		
Foundation	5		5	.4					3						2		
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	105	5	100	7.3	34	34.0	210,182	6,182	6	1	2,500	11	5	56,730	83	28	150,952
Concreting	37	3	34	2.5	12	35.3	46,700	3,892	1			1			32	12	46,700
Electrical	216	10	206	15.0	59	28.6	372,173	6,308	52	14	83,860	81	20	87,616	73	25	200,697
Elevators	2		2	.1	2	100.0	37,015	18,508	1	1	24,816	1	1	12,199			
Heating, ventilating, and piping	11	1	10	.7	6	60.0	54,438	9,073	3	2	8,988	5	3	25,076	2	1	20,376
Masonry	18	1	17	1.2	10	58.8	77,334	7,733	1	1	21,718	1	1	2,262	15	8	53,354
Painting and decorating	123	5	118	8.6	45	38.1	205,169	4,559	21	6	77,022	15	5	34,972	82	34	93,175
Glass and glazing	3		3	.2	1	33.3	5,000	5,000	1						2	1	5,000
Plastering	28	1	27	2.0	11	40.7	52,937	4,813	3	1	8,600	1			23	10	44,337
Plumbing and heating	402	12	390	28.4	142	36.4	1,346,453	9,482	99	34	319,745	93	31	305,737	108	77	720,971
Sheet metal and roofing	90	3	87	6.3	33	37.9	348,774	10,569	25	8	112,521	14	3	21,010	48	22	215,243
Steel erection	1		1	.1											1		
Stone work	4		4	.3											2		
Marble and tiling	22		22	1.6	8	36.4	79,996	9,999	8			8	3	43,208	6	5	36,788
Wrecking	2		2	.1	1	50.0	3,000	3,000							2	1	3,000
Excavating and grading	11	2	9	.7	4	44.4	37,965	9,491	3	2	25,965				6	2	12,009
Ornamental iron	7		7	.5	1	14.3	4,058	4,058	5	1	4,058				2		
Automatic sprinkler	1		1	.1					1								
Miscellaneous subcontractors	15	3	12	.9	2	16.7	8,600	4,300				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

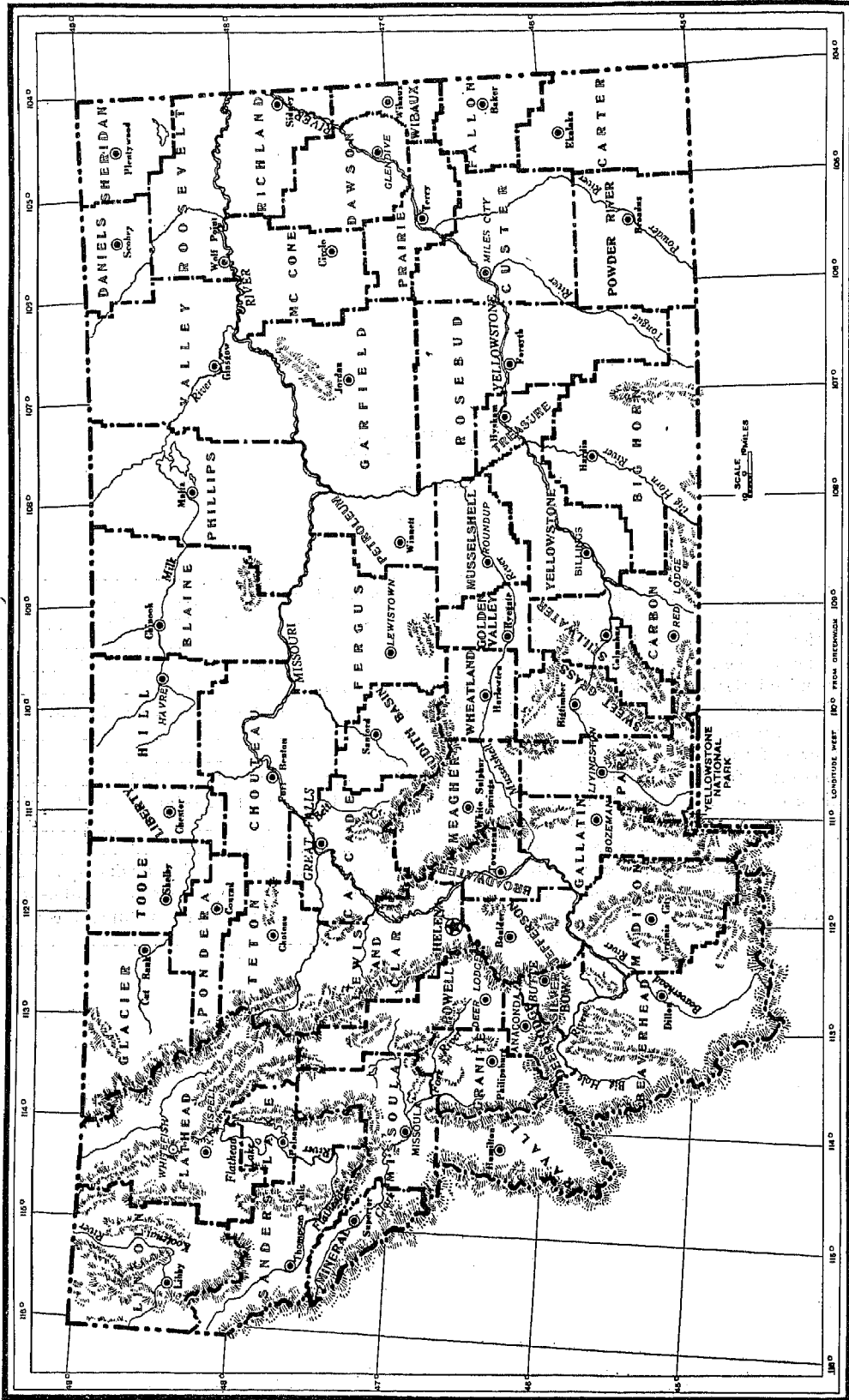
CLASSIFICATION	Total	Less than \$2,500	\$2,500 to \$4,999	\$5,000 to \$7,499	\$7,500 to \$9,999	\$10,000 to \$12,499	\$12,500 to \$14,999	\$15,000 to \$17,499	\$17,500 to \$19,999	\$20,000 to \$22,499	\$22,500 to \$24,999
Total general and subcontractors	482	110	89	64	47	48	26	31	23	23	21
General contractors	106	22	10	12	11	14	7	14	8	4	4
Subcontractors	371	88	78	51	36	34	19	17	15	18	16
Type of contracting unknown	5		1	1						1	2

MONTANA

CONTENTS

	Page
MAP	712
TABLE 1.—Value of construction business during 1929, and principal items of expenditure.....	713
TABLE 2.—Construction business of reporting establishments during 1929, by class of ownership and by type of work.....	714
TABLE 3.—Construction business during 1929, by location.....	714
TABLE 4.—Construction business outside home State, by location.....	714
TABLE 5.—Number and salaries of proprietors, firm members, and salaried employees: 1929.....	715
TABLE 6.—Value of construction equipment, in comparison with construction business and wages paid during 1929.....	715
TABLE 7.—Wage earners, by months, and wages paid during 1929.....	716
TABLE 8.—Expenditures of reporting establishments: 1929.....	716
TABLE 9.—Cost of materials furnished and used by reporting establishments during 1929, by kind.....	717
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.....	718
TABLE 11.—Cost of materials furnished and used by reporting establishments during 1929.....	719
TABLE 12.—Number of and volume of business reported by establishments doing a construction business of less than \$25,000 in 1929, percentage of total number of known establishments, and average volume per establishment.....	720
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.....	720

MONTANA



CONSTRUCTION—MONTANA

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

[Values expressed in thousands]

AREA, CLASSIFICATION OF ESTABLISHMENTS, AND SIZE OF BUSINESS GROUPS	Number of establishments	VALUE OF CONSTRUCTION BUSINESS			PRINCIPAL EXPENDITURES			AREA, CLASSIFICATION OF ESTABLISHMENTS, AND SIZE OF BUSINESS GROUPS	Number of establishments	VALUE OF CONSTRUCTION BUSINESS			PRINCIPAL EXPENDITURES		
		Total	Under general contract or directly for owner	Under sub-contract	Sub-contract work let	Wages paid	Cost of materials			Total	Under general contract or directly for owner	Under sub-contract	Sub-contract work let	Wages paid	Cost of materials
MONTANA	119	\$11,423	\$9,520	\$1,903	\$1,215	\$2,958	\$4,551	MONTANA—Contd.							
Counties:								<i>Classification of establishments—Continued</i>							
Cascade.....	35	5,026	4,010	1,007	475	1,843	1,086	<i>Subcontractors—Continued.</i>							
Custer.....	3	420	420	60	99	99	157	<i>Roofing and sheet-metal work.</i>	4	\$201	\$37	\$164		\$70	\$68
Deer Lodge.....	4	186	126	60	26	49	72	<i>Other classes¹</i>	5	303	48	260		122	99
Flathead.....	4	168	101	67	26	37	47	<i>Size of business groups</i>							
Gallatin.....	5	309	270	39	119	59	64	<i>General contractors²</i>	74	8,821	8,793	28	\$1,215	2,139	3,374
Hill.....	7	447	382	65	26	117	203	\$25,000 to \$49,999.....	27	1,047	1,047		182	263	354
Lewis and Clark.....	7	394	258	136	20	121	171	\$50,000 to \$99,999.....	23	1,566	1,566		109	411	630
Missoula.....	16	1,018	792	226	198	235	380	\$100,000 to \$199,999.....	14	1,898	1,894	4	241	605	633
Silver Bow.....	19	2,148	1,958	190	195	550	949	\$200,000 to \$499,999.....	7	2,037	2,014	23	240	518	804
Yellowstone.....	6	627	609	18	9	176	267	\$500,000 to \$999,999.....	2	1,261	1,261		113	215	644
Other counties ¹	13	679	585	94	61	173	258	\$1,000,000 and over.....	1	1,010	1,010		270	228	250
<i>Classification of establishments</i>								<i>Building contractors²</i>	49	5,371	5,348	23	938	1,386	2,038
General contractors ¹	74	8,821	8,793	28	1,215	2,139	3,374	Building.....	49	5,371	5,348	23	938	1,386	2,038
Building.....	49	5,371	5,348	23	938	1,386	2,038	Building not specialized ²	39	4,737	4,714	23	822	1,209	1,824
Building not specialized ²	39	4,737	4,714	23	822	1,209	1,824	Commercial building only.....	4	301	301		63	96	85
Commercial building only.....	4	301	301		63	96	85	Residential building only.....	6	333	333		63	82	129
Residential building only.....	6	333	333		63	82	129	Highway.....	9	1,140	1,140		132	226	517
Highway.....	9	1,140	1,140		132	226	517	Grading.....	5	454	460	4	125	93	23
Grading.....	5	454	460	4	125	93	23	Street paving.....	6	1,447	1,447		20	384	604
Street paving.....	6	1,447	1,447		20	384	604	Other classes ³	5	408	408		99	193	
Other classes ³	5	408	408		99	193		<i>Subcontractors</i>	45	2,602	728	1,875		819	1,177
<i>Subcontractors</i>	45	2,602	728	1,875		819	1,177	Electrical.....	10	605	166	439		160	281
Electrical.....	10	605	166	439		160	281	Heating and plumbing.....	22	1,352	432	921		385	692
Heating and plumbing.....	22	1,352	432	921		385	692	Heating and piping.....	3	167	135	32		46	90
Heating and piping.....	3	167	135	32		46	90	Plumbing.....	9	613	59	554		178	326
Plumbing.....	9	613	59	554		178	326	Plumbing and heating combined.....	10	573	238	335		161	277
Plumbing and heating combined.....	10	573	238	335		161	277	Painting and decorating.....	4	141	50	91		83	37
Painting and decorating.....	4	141	50	91		83	37								

¹ Includes Beaverhead, Big Horn, Blaine, Daniels, Dawson, Fergus, Musselshell, Park, Teton, and Valley, 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.
² Includes operative builders.
³ Includes bridge and culvert; sewer, gas, water, conduit; and foundation.
⁴ Includes concreting; masonry; plastering and lathing; and highway.

CONSTRUCTION—MONTANA

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

CLASS OF OWNERSHIP AND TYPE OF CONSTRUCTION WORK	CONSTRUCTION BUSINESS REPORTED BY—						CLASS OF OWNERSHIP AND TYPE OF CONSTRUCTION WORK	CONSTRUCTION BUSINESS REPORTED BY—					
	All classes of establishments		General contractors ¹		Subcontractors			All classes of establishments		General contractors ¹		Subcontractors	
	Number reporting	Value	Number reporting	Value	Number reporting	Value		Number reporting	Value	Number reporting	Value	Number reporting	Value
MONTANA						MONTANA—Continued							
All construction business.....	119	\$11,423,058	74	\$8,820,564	45	\$2,602,494	All business under general contract or directly for owners—Continued						
Distribution not reported.....	11	817,411	7	679,358	4	138,053	Distributed by class—Con.						
Distributed by class of ownership.....	108	10,605,647	67	8,141,206	41	2,464,441	Highway and street.....	20	\$2,032,920	18	(?)	2	(?)
Private.....	92	5,531,300	53	3,434,836	39	2,096,464	Public works and utilities.....	16	717,550	14	(?)	2	(?)
Quasi-public or community.....	16	576,299	9	474,187	7	102,112	Bridge, tunnel, etc.....	8	508,572	7	(?)	1	(?)
Public.....	59	4,495,048	44	4,232,183	15	265,865	Flood control, irrigation, and land drainage.....	4	76,085	4	\$76,985		
Distribution not reported.....	7	456,653	5	356,273	2	100,380	Sewage disposal and drainage.....	3	104,301	3	104,301		
Distributed by class of public ownership.....	52	4,041,395	39	3,875,910	13	165,485	Central station, light and power plant.....	1		1	(?)		
Federal.....	4	46,481	3	1,509,747	1	66,781	Water supply.....	2	27,692	2	(?)		
State.....	18	1,530,947	14	972,950	4	80,972	Miscellaneous.....	1		1	(?)	1	(?)
County or township.....	24	1,053,622	16	1,393,213	8	17,732	Water power development.....	1	154,451	1	(?)	1	(?)
Municipal.....	20	1,410,945	15		5		Miscellaneous, n. e. s.....	1		1	(?)	1	(?)
All business under general contract or directly for owners.....	91	9,520,489	74	8,792,712	17	727,777	All business under subcontract.....	38	1,902,569	2	(?)	36	(?)
Distribution not reported.....	4	673,990	3	642,495	1	31,495	Distribution not reported.....	1	142,664			1	\$142,664
Distributed by class.....	87	8,846,499	71	8,150,217	16	696,282	Distributed by class.....	37	1,759,905	2	(?)	35	(?)
Building.....	68	5,941,578	53	5,301,860	15	640,218	Electrical.....	8	443,955			8	443,955
Distribution not reported.....	5	353,055	4	334,935	1	18,120	Heating and plumbing.....	8	733,069			8	733,069
Distributed by class.....	63	5,588,623	49	4,066,425	14	622,098	Heating and piping.....	10	201,720			10	201,720
Commercial.....	36	1,999,637	30	1,907,727	6	91,910	Pipe covering.....	4	7,132			4	7,132
Educational.....	11	915,014	9	921,325	2	26,300	Plumbing.....	9	336,802			9	336,802
Public: Courts, jails, etc.....	5	32,611	4	535,167	1	8,964	Plumbing and heating combined.....	5	188,009			5	188,009
Hotel.....	7	174,137	3	(?)	3	(?)	Painting and decorating.....	3	90,446			3	90,446
Hospital and institutional.....	4	369,994	2	(?)	2	(?)	Glass and glazing.....	3	110,802			3	110,802
Religious and memorial.....	2	98,864	3	(?)	1	(?)	Plastering and lathing.....	3	166,609			3	166,609
Social and recreational.....	4	1,638,886	34	1,256,314	12	382,572	Roofing and sheet-metal work.....	5	49,275			5	49,275
Residential.....	46		2	(?)	1	(?)	Roofing.....	7	117,334			7	117,334
Manufacturing.....	2	58,007	2	(?)			Sheet-metal work.....	1				1	
Air transport.....	1		2	(?)			Roofing and sheet metal combined.....	1				1	
Rail and water transportation.....	2		12	190,273	3	111,100	Other classes ³	5	214,424	2	(?)	3	(?)
Miscellaneous.....	15	301,373											

¹ Includes operative builders.
² Value omitted in order to avoid disclosing individual operations. The amounts omitted are, however, included in the respective totals.
³ 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 ESTABLISHMENTS	Establishments reporting	Total	LOCATION REPORTED BY—			CLASSIFICATION OF ESTABLISHMENTS	Establishments reporting	Total	LOCATION REPORTED BY—		
			In home city	In home State	Outside home State				In home city	In home State	Outside home State
MONTANA					MONTANA—Continued.						
General contractors ¹	69	\$10,516,149	\$7,573,328	\$10,008,851	\$507,298	Subcontractors.....	44	\$2,317,503	\$2,215,615	\$2,317,503	
Building.....	46	4,953,307	5,362,713	7,691,348	507,298	Electrical.....	10	605,193	605,193	605,193	
Building not specialized ¹	37	4,449,022	3,878,681	4,449,022		Heating and plumbing.....	21	1,067,385	1,046,342	1,067,385	
Commercial building only.....	3	170,968	91,008	91,008	79,000	Heating and piping.....	3	166,778	166,778	166,778	
Residential building only.....	3	333,317	333,317	333,317		Plumbing.....	8	327,589	308,589	327,589	
Highway.....	6	1,031,052	32,023	1,000,428	30,624	Plumbing and heating combined.....	10	573,018	570,975	573,018	
Grading.....	5	454,489	53,924	454,489		Painting and decorating.....	4	140,918	140,918	140,918	
Street paving.....	6	1,447,282	818,724	1,080,618	360,664	Roofing and sheet-metal work.....	4	200,690	198,338	200,690	
Other classes ²	4	812,516	154,076	281,506	31,010	Other classes ³	5	303,303	224,824	303,303	

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

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

CLASSIFICATION OF ESTABLISHMENTS	Establishments reporting	PROPRIETORS AND FIRM MEMBERS				SALARIED EMPLOYEES								Sex not reported
		Receiving no salary	Receiving salaries		All salaried employees		Officers and clerical staff		Superintendents, foremen, etc.		Number reported, by sex			
			Number	Total annual salaries	Total number	Total annual salaries	Number	Total annual salaries	Number	Total annual salaries	Total	Male	Female	
MONTANA	114	89	36	\$120, 218	148	\$309, 524	85	\$178, 127	63	\$131, 397	139	114	25	0
General contractors ¹	70	67	10	45, 534	97	221, 492	39	101, 095	58	120, 397	90	81	9	7
Building.....	47	46	5	36, 374	44	85, 658	14	18, 000	30	98, 758	44	39	5	-----
Building not specialized ¹	38	37	5	36, 374	32	73, 044	12	15, 300	20	57, 744	32	27	5	-----
Commercial building only.....	3	3	-----	-----	9	7, 600	2	3, 600	7	4, 000	9	9	-----	-----
Residential building only.....	6	6	-----	-----	3	5, 014	-----	-----	3	5, 014	3	3	-----	-----
Highway.....	8	7	-----	-----	16	43, 219	8	24, 619	8	18, 600	15	15	-----	1
Grading.....	5	2	5	9, 160	9	19, 800	5	15, 400	4	4, 400	9	9	-----	-----
Street paving.....	5	7	-----	-----	18	63, 399	5	39, 000	13	24, 399	12	12	-----	6
Other classes ²	5	5	-----	-----	10	9, 416	7	3, 170	3	6, 240	10	6	4	-----
Subcontractors	44	22	26	74, 684	51	88, 032	46	77, 032	5	11, 000	49	33	16	2
Electrical.....	10	4	3	7, 365	22	46, 065	21	43, 985	1	2, 080	22	15	7	-----
Heating and plumbing.....	21	10	15	44, 847	26	37, 619	23	31, 490	3	6, 120	24	16	8	2
Plumbing.....	9	4	0	25, 092	13	17, 353	13	17, 353	-----	-----	13	9	4	-----
Plumbing and heating combined.....	12	6	9	19, 755	13	20, 260	10	14, 146	3	6, 120	11	7	4	2
Painting and decorating.....	4	2	1	2, 387	1	1, 080	1	1, 080	-----	-----	1	1	-----	-----
Roofing and sheet-metal work.....	4	2	4	10, 227	1	493	1	493	-----	-----	1	-----	1	-----
Other classes ³	5	4	3	9, 898	1	2, 800	-----	-----	1	2, 800	1	1	-----	-----

¹ Includes operative builders.
² Includes bridge and culvert; sewer, gas, water, conduit; and foundation.
³ 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 ESTABLISHMENTS AND PERCENTAGE OF EQUIPMENT OWNED	Es-tab-lish-ments re- port- ing	EQUIPMENT		Value of construction business reported	Wages paid	CLASSIFICATION OF ESTABLISHMENTS AND PERCENTAGE OF EQUIPMENT OWNED	Es-tab-lish-ments re- port- ing	EQUIPMENT		Value of construction business reported	Wages paid
		Pur- chased during the year	Inven- tory value at end of year					Pur- chased during the year	Inven- tory value at end of year		
MONTANA	100	\$230, 498	\$1, 016, 190	\$10, 360, 582	\$2, 590, 926	MONTANA—Continued.					
Classification of establishments						Percentage of equipment owned					
General contractors ¹	66	205, 741	868, 245	8, 349, 014	1, 982, 060	General contractors ¹	66	\$205, 741	\$868, 245	\$8, 349, 014	\$1, 982, 060
Building.....	43	34, 301	216, 461	5, 012, 866	1, 257, 201	None.....	1	-----	-----	43, 300	7, 019
Building not specialized ¹	34	30, 441	183, 178	4, 508, 581	1, 145, 520	1% to 25%.....	-----	-----	-----	-----	-----
Commercial building only.....	3	2, 900	24, 834	170, 998	29, 971	26% to 50%.....	1	2, 500	8, 000	35, 000	6, 440
Residential building only.....	6	1, 050	8, 449	333, 317	81, 710	51% to 75%.....	4	33, 560	92, 024	360, 440	72, 678
Highway.....	8	124, 604	249, 087	1, 096, 578	215, 035	76% to 99%.....	12	89, 870	258, 634	2, 167, 049	512, 372
Grading.....	5	20, 850	134, 543	454, 489	92, 788	100%.....	45	79, 040	505, 252	5, 610, 313	1, 350, 193
Street paving.....	6	17, 568	239, 098	1, 447, 282	334, 426	Not reported.....	3	765	4, 335	133, 212	84, 258
Other classes ²	4	8, 322	28, 476	338, 699	83, 510	Subcontractors	34	24, 757	147, 045	2, 010, 668	607, 066
Subcontractors	34	24, 757	147, 045	2, 010, 668	607, 066	None.....	-----	-----	-----	-----	-----
Electrical.....	8	3, 220	55, 115	524, 309	138, 334	1% to 25%.....	-----	-----	-----	-----	-----
Heating and plumbing.....	16	12, 715	48, 172	1, 014, 067	276, 038	26% to 50%.....	-----	-----	-----	-----	-----
Plumbing.....	9	7, 749	29, 684	612, 580	178, 282	51% to 75%.....	1	815	23, 075	100, 365	28, 008
Plumbing and heating combined.....	7	4, 966	18, 488	401, 487	97, 756	76% to 99%.....	3	2, 271	3, 285	171, 818	75, 103
Roofing and sheet-metal work.....	3	511	10, 658	90, 161	23, 821	100%.....	29	21, 671	109, 043	1, 703, 213	499, 000
Other classes ³	7	8, 311	34, 000	382, 131	160, 723	Not reported.....	1	-----	11, 642	26, 272	5, 260

¹ Includes operative builders.
² Includes bridge and culvert; sewer, gas, water, conduit; and foundation.
³ Includes concreting; masonry; painting and decorating; plastering and lathing; and highway.

CONSTRUCTION—MONTANA

717

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

KIND OF MATERIAL	COST OF MATERIALS REPORTED BY					KIND OF MATERIAL	COST OF MATERIALS REPORTED BY				
	All classes of establishments			General contractors ²	Subcontractors		All classes of establishments			General contractors ²	Subcontractors
	Amount	Per cent distribution	Per \$1,000 construction work done ¹				Amount	Per cent distribution	Per \$1,000 construction work done ¹		
MONTANA						MONTANA—Continued					
All kinds of material.....	\$4,550,885		\$445.82	\$3,374,040	\$1,176,845	Distributed by kind—Contd.					
Distribution not reported.....	2,035,048	44.7		1,435,582	599,406	Composition board.....	\$21,809	0.9	\$3.87	\$21,484	\$325
Distributed by kind.....	2,515,837	100.0		1,938,458	577,379	Waterproofing materials.....	5,434	.2	.06	5,434	
Sand, gravel, stone, slag, cinders, etc.....	232,460	9.2	41.19	229,400	3,000	Hardware, rough and finished.....	61,949	2.5	10.08	61,919	30
Brick (face, common, fire, paving, etc.).....	165,360	6.6	29.30	138,360	27,000	Paints, varnishes, glass.....	54,286	2.2	9.62	17,558	36,728
Tile (fireproofing).....	11,656	.5	2.06	11,656		Roofing and sheet metal.....	72,709	2.9	12.88	30,511	42,198
Tile, facing, terra cotta, floor and wall.....	45,536	1.8	8.07	39,036	6,500	Finished flooring (other than cement, wood, or tile).....	10,735	.4	1.00	10,735	
Concrete and cinder block.....	11,661	.5	2.07	11,661		Screens, shades, awnings, etc.....	2,547	.1	.45	2,547	
Cut stone, granite and marble.....	17,018	.7	3.01	16,018	1,000	Heating and ventilating equipment.....	142,582	5.7	25.26	17,847	124,735
Cement.....	245,061	9.7	43.43	242,254	2,807	Plumbing and gas fitting equipment.....	173,658	6.9	30.77	31,078	142,580
Lime.....	32,691	1.3	5.70	20,041	3,650	Electrical appliances and supplies.....	188,491	7.5	33.40	17,372	171,119
Plaster, etc.....	36,621	1.5	6.49	27,773	8,848	Elevators, dumb-waiters, and equipment.....	25,599	1.0	4.54	25,599	
Structural steel.....	164,879	6.6	20.22	164,222	657	Pipe: Drain tile, vitrified, concrete, segment tile, corrugated.....	33,425	1.3	5.92	31,625	1,800
Reinforcing steel.....	43,506	1.7	7.71	43,506		Pipe: Cast-iron, sheet and tube steel, etc.....	3,472	.1	.62	1,472	2,000
Cast-iron, miscellaneous, excluding pipe.....	2,651	.1	.47	2,451	200	Wire cable, guards, and fencing.....	100	(^b)	.02	100	
Metal doors, windows, and trim.....	34,231	1.4	6.07	34,181	50	Bituminous paving materials, tar, asphalt, and oil.....	10,147	.4	1.80	10,147	
Metal and wire lath and furring.....	10,641	.4	1.80	8,541	2,100	Wood piling and timber.....	5,000	.2	.89	5,000	
Ornamental metal work.....	12,614	.5	2.23	12,614		Metal products, n. e. s. (including metal furniture).....	1,280	.1	.23	1,280	
Lumber, rough and finished.....	446,122	17.7	79.06	446,122		Miscellaneous.....	42,469	1.7	7.53	42,469	
Lath, shingles, and shakes (wood).....	16,834	.7	2.98	16,782	52						
Millwork.....	130,603	5.2	23.14	130,603							

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 cent.

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]

KIND OF MATERIAL AND CLASSIFICATION OF ESTABLISHMENTS	Cost of all materials distributed by kind	COST OF DESIGNATED MATERIAL			Value of construction business	Indicated per cent of all business done by own force ¹	KIND OF MATERIAL AND CLASSIFICATION OF ESTABLISHMENTS	Cost of all materials distributed by kind	COST OF DESIGNATED MATERIAL			Value of construction business	Indicated per cent of all business done by own force ¹			
		Amount	Per cent of—						Amount	Total cost	Cost of all distributed materials			Amount	Per cent of—	
			Total cost	Cost of all distributed materials											Total cost	Cost of all distributed materials
MONTANA—Continued						MONTANA—Continued										
<i>Heating and ventilating equipment—Continued</i>						<i>Plumbing and gas-fitting equipment—Continued</i>										
Subcontractors.....	\$577,379	\$124,735	87.5	21.6	\$1,248,540	100.0	Subcontractors.....	\$577,379	\$142,580	82.1	24.7	\$1,248,540	100.0			
Electrical.....	189,054	12,180	8.5	6.4	384,944	100.0	Electrical.....	189,054	8,660	5.0	4.6	384,944	100.0			
Heating and plumbing.....	258,208	112,555	78.9	43.6	463,780	100.0	Heating and plumbing.....	258,208	133,920	77.1	51.9	463,780	100.0			
Heating and piping.....	89,804	67,124	47.1	74.7	166,778	100.0	Heating and piping.....	89,804	20,000	11.5	22.3	166,778	100.0			
Plumbing.....	137,079	29,931	21.0	21.8	230,632	100.0	Plumbing.....	137,079	98,420	56.7	71.8	236,622	100.0			
Plumbing and heating combined.....	31,325	15,500	10.9	49.5	60,380	100.0	Plumbing and heating combined.....	31,325	15,500	8.9	49.5	60,380	100.0			
<i>Plumbing and gas-fitting equipment</i>						<i>Electrical appliances and supplies</i>										
All classes.....	2,515,837	173,658	100.0	6.9	2,357,414	89.4	All classes.....	2,515,837	188,401	100.0	7.5	6,357,414	89.4			
General contractors.....	1,884,894	31,078	17.0	1.0	5,000,074	86.4	General contractor ³	1,938,458	17,372	9.2	.9	5,108,874	86.2			
Building.....	1,394,563	26,589	15.3	1.0	3,642,417	82.8	Building.....	1,448,127	10,562	5.6	.7	3,751,217	82.5			
Building not specialized.....	1,300,766	23,513	13.5	1.8	3,416,414	83.0	Building not specialized ⁴	1,354,330	8,862	4.7	.7	3,525,214	82.6			
Commercial building only.....	34,859	76	(⁵)	.2	85,968	79.1	Residential building only.....	58,038	1,700	.9	2.0	140,035	84.1			
Residential building only.....	58,938	3,000	1.7	5.1	140,035	84.1	Street paving.....	294,104	0,810	-3.0	2.3	738,978	98.0			
Street paving.....	294,104	4,489	2.0	1.5	738,978	98.0	Subcontractors.....	457,379	171,119	90.8	29.6	1,248,540	100.0			
							Electrical.....	189,054	168,214	89.0	89.0	384,944	100.0			
							Heating and plumbing.....	428,208	2,905	1.5	1.1	463,780	100.0			
							Plumbing.....	137,079	2,905	1.5	2.1	236,622	100.0			

¹ Based upon the difference between the total value of all construction business reported and the value of subcontract work let.
² See footnote 3 of Table 9 on p. 717.
³ Includes operative builders.
⁴ Includes cost of materials reported by establishments which did not include the designated material in their distributed lists.
⁵ Includes construction work reported by establishments which did not include the designated material in their distributed lists.
⁶ Includes cost of materials reported by operative builders who did not include the designated material in their distributed lists.
⁷ Includes construction work reported by operative builders who did not include the designated material in their distributed lists.
⁸ Less than one-tenth of 1 per cent.
⁹ Includes cost of materials 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 MATERIAL FURNISHED AND USED BY REPORTING ESTABLISHMENTS DURING 1929

CLASSIFICATION OF ESTABLISHMENTS	Total cost of all materials ¹	COST OF ALL MATERIALS DISTRIBUTED BY KIND		Sand, gravel, crushed stone, slag, cinders, etc.	Brick (face, common, fire, paving, etc.)	Tile (fire-proofing)	Tile, facing, terra cotta, floor and wall	Concrete and cinder block	Cut stone, granite and marble	Cement	Lime	Plaster, etc.	Structural steel	Reinforcing steel	Metal doors, windows, and trim	Metal and wire lath and furring
		Amount	Per cent of total													
MONTANA	\$4,550,885	\$2,515,837	55.3	\$232,460	\$165,360	\$11,656	\$45,536	\$11,861	\$17,018	\$245,061	\$32,691	\$36,621	\$164,879	\$43,508	\$34,231	\$10,641
Operative builders.....	53,564	53,564	100.0	355	2,700					700	225	810	160			
General contractors.....	3,320,476	1,884,894	56.8	229,105	135,660	11,656	39,036	11,661	16,018	241,494	28,816	26,954	164,062	43,508	34,181	8,541
Building.....	1,983,977	1,394,563	70.3	114,282	134,066	11,656	39,036		16,018	128,946	20,821	26,954	75,953	20,197	34,181	8,114
Building not specialized.....	1,770,262	1,300,766	73.5	105,750	130,217	10,529	39,036		16,018	123,861	20,581	23,533	72,683	16,562	33,501	7,714
Commercial building only.....	84,859	34,859	41.1	3,477	849	1,127				5,085	240	21	3,270	3,635	680	400
Residential building only.....	128,860	58,938	45.7	5,055	3,000							3,400				
Highway.....	516,765	77,640	15.0	33,123				1,661		6,000				2,634		
Bridge and culvert.....	131,228	47,300	36.0	9,000						12,800			6,000	8,000		
Grading.....	22,877	18,167	79.4	10,255						4,920						
Street paving.....	603,713	294,104	48.7	55,868	742			10,000		75,927	35		82,109	12,675		427
Sewer, gas, water, conduit.....	35,568	26,782	75.3	229	852					851	10					
Foundation.....	26,348	26,348	100.0	6,348						12,050	7,950					
Subcontractors.....	1,176,845	577,379	49.1	3,000	27,000		6,500		1,000	2,807	3,650	8,848	657		50	2,100
Electrical.....	281,328	189,054	67.2													
Heating and plumbing.....	601,929	258,208	37.3													
Heating and piping.....	89,804	89,804	100.0													
Plumbing.....	325,530	137,079	42.1													
Plumbing and heating combined.....	276,535	31,325	11.3													
Masonry.....	41,657	41,657	100.0	1,500	27,000		6,500		1,000	1,500	3,500		657			
Painting and decorating.....	36,728	36,728	100.0													
Plastering and lathing.....	13,980	13,980	100.0	1,500						1,300	150	8,848				2,100
Roofing and sheet-metal work.....	67,692	37,692	55.7							7					50	
Sheet-metal work.....	56,726	26,726	47.1													
Roofing and sheet-metal combined.....	10,966	10,966	100.0							7					50	

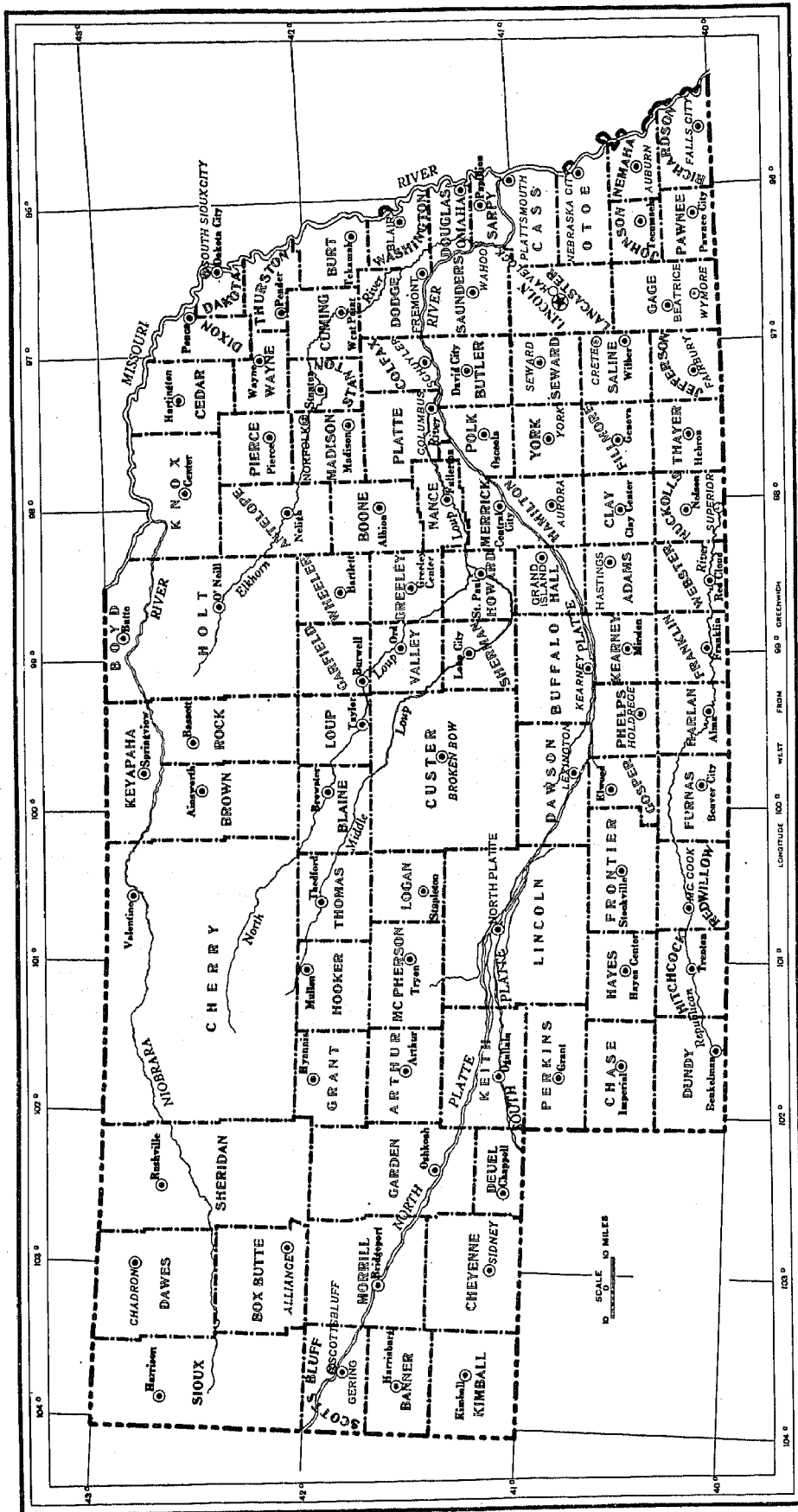
¹ Certain establishments did not give a distribution of the cost of their materials by separate items. The total cost of materials reported by such establishments is, however, included in totals in this column which carry a footnote to that effect.
² See footnote 3 of Table 9 on p. 717.
³ Includes concreting, \$18,531; highway, \$25,000.

NEBRASKA

CONTENTS

	Page
MAP	722
TABLE 1.—Value of construction business during 1929, and principal items of expenditure.....	723
TABLE 2.—Construction business of reporting establishments during 1929, by class of ownership and by type of work.....	724
TABLE 3.—Construction business during 1929, by location.....	725
TABLE 4.—Construction business outside home State, by location.....	725
TABLE 5.—Number and salaries of proprietors, firm members, and salaried employees: 1929.....	726
TABLE 6.—Value of construction equipment, in comparison with construction business and wages paid during 1929.....	727
TABLE 7.—Wage earners, by months, and wages paid during 1929.....	727
TABLE 8.—Expenditures of reporting establishments: 1929.....	729
TABLE 9.—Cost of materials furnished and used by reporting establishments during 1929, by kind.....	730
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.....	731
TABLE 11.—Cost of materials furnished and used by reporting establishments during 1929.....	734
TABLE 12.—Number of and volume of business reported by establishments doing a construction business of less than \$25,000 in 1929, percentage of total number of known establishments, and average volume per establishment.....	737
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.....	737

NEBRASKA



CONSTRUCTION—NEBRASKA

723

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

[Values expressed in thousands]

AREA, CLASSIFICATION OF ESTABLISHMENTS, AND SIZE OF BUSINESS GROUPS	Number of establishments	VALUE OF CONSTRUCTION BUSINESS				PRINCIPAL EXPENDITURES			AREA, CLASSIFICATION OF ESTABLISHMENTS, AND SIZE OF BUSINESS GROUPS	Number of establishments	VALUE OF CONSTRUCTION BUSINESS				PRINCIPAL EXPENDITURES			
		Total	Under general contract or directly for owner	Under sub-contract	Sub-contract work let	Wages paid	Cost of materials	Total			Under general contract or directly for owner	Under sub-contract	Sub-contract work let	Wages paid	Cost of materials			
NEBRASKA	248	\$46,346	\$39,648	\$5,802	\$5,031	\$10,451	\$18,631		NEBRASKA—Continued.									
<i>Counties and principal city</i>																		
Counties:																		
Adams.....	5	831	813	18	97	181	389											
Buffalo.....	5	334	325	9	48	55	174											
Dodge.....	5	219	175	44	4	70	76											
Douglas.....	107	23,052	19,394	4,658	2,765	5,598	9,460											
Hall.....	7	1,030	1,034	5	52	250	461											
Jefferson.....	4	1,396	1,396	—	—	399	820											
Lancaster.....	37	11,259	10,560	999	1,258	2,760	4,659											
Lincoln.....	11	711	602	200	12	173	348											
Madison.....	5	404	404	—	—	92	151											
Otoe.....	4	246	240	—	—	16	54											
Platte.....	6	427	413	14	77	67	200											
Redwillow.....	5	502	471	31	131	84	203											
Scotts Bluff.....	6	302	235	67	20	73	134											
Other counties.....	36	3,721	3,572	149	459	708	1,420											
Principal city: ¹																		
Omaha.....	104	23,863	19,337	4,525	2,765	5,489	9,418		OMAHA	104	23,863	19,337	4,525	2,765	5,489	9,418		
<i>Classification of establishments</i>																		
General contractors.....	150	37,597	37,291	306	4,858	8,960	14,404		Subcontractors.....	84	7,748	2,252	5,495	173	1,491	4,226		
Building.....	88	13,091	13,077	14	2,870	2,797	5,580		\$25,000 to \$49,999.....	44	1,519	702	817	9	433	647		
Building not specialized.....	63	11,631	11,667	14	2,515	2,502	5,050		\$50,000 to \$99,999.....	26	1,799	782	1,014	3	495	800		
Commercial building only.....	9	625	625	—	145	147	229		\$100,000 to \$199,999.....	9	1,334	206	1,128	81	263	694		
Residential building only.....	10	784	784	—	210	148	301		\$200,000 to \$499,999.....	3	983	422	561	80	197	532		
Highway.....	23	10,945	10,820	125	982	2,357	4,821		\$500,000 to \$999,999.....	1	901	—	901	—	105	674		
Bridge and culvert.....	14	2,532	2,478	54	30	841	1,232		\$1,000,000 and over.....	1	1,213	138	1,075	—	90	900		
Grading.....	14	3,719	3,604	16	444	1,550	500											
Street paving.....	7	1,297	1,242	55	30	310	422											
Sewer, gas, water, conduit.....	5	639	637	2	29	107	370											
Dam, reservoir, and waterworks.....	4	1,486	1,445	41	290	288	485											
Dredging, river, harbor, etc. ³	4	3,898	3,898	—	165	1,151	904											
Subcontractors.....	84	7,748	2,252	5,495	173	1,491	4,226											
Concreteing.....	6	379	51	328	—	127	176											
Electrical.....	9	412	212	200	—	113	200											
Heating and plumbing.....	38	2,638	1,443	1,195	93	513	1,427											
Heating and pipe covering.....	8	688	285	303	1	104	315											
Plumbing.....	18	1,057	328	729	0	220	559											
Plumbing and heating combined.....	12	993	830	163	80	190	523											
Painting and decorating.....	6	215	98	117	6	91	44											
Roofing and sheet-metal work.....	10	1,014	252	761	2	208	431											
Roofing.....	5	624	162	462	—	117	277											
Sheet-metal work.....	5	389	90	299	2	90	154											
Steel erection.....	3	2,180	138	2,051	—	201	1,624											
Marble and tiling.....	5	544	56	488	—	129	301											
Grading and excavating.....	4	244	—	244	71	61	—											
Other classes..... ⁹	3	112	—	112	—	40	23											
<i>Size of business groups</i>																		
General contractors.....	159	37,597	37,291	306	4,858	8,960	14,404											
\$25,000 to \$49,999.....	43	1,555	1,542	13	176	380	620											
\$50,000 to \$99,999.....	42	2,905	2,836	69	336	711	1,052											
\$100,000 to \$199,999.....	39	5,427	5,350	77	844	1,155	2,049											
\$200,000 to \$499,999.....	14	4,412	4,269	143	1,070	844	1,428											
\$500,000 to \$999,999.....	12	8,531	8,526	5	1,246	1,749	3,533											
\$1,000,000 and over.....	9	14,767	14,767	—	1,186	4,119	5,716											
Building contractors.....	88	13,091	13,077	14	2,870	2,797	5,580											
\$25,000 to \$49,999.....	31	1,148	1,148	—	171	278	502											
\$50,000 to \$99,999.....	23	1,524	1,515	9	214	375	710											
\$100,000 to \$199,999.....	22	3,019	3,011	8	662	628	1,127											
\$200,000 to \$499,999.....	6	1,830	1,830	—	600	373	430											
\$500,000 to \$999,999.....	3	2,002	2,002	—	641	369	814											
\$1,000,000 and over.....	3	3,517	3,517	—	492	783	1,938											
Subcontractors.....	50	6,057	1,607	4,449	163	1,105	3,375											
\$25,000 to \$49,999.....	22	815	338	477	6	256	318											
\$50,000 to \$99,999.....	17	1,234	538	696	2	281	531											
\$100,000 to \$199,999.....	6	912	172	740	75	177	419											
\$200,000 to \$499,999.....	3	933	422	511	80	197	532											
\$500,000 to \$999,999.....	1	901	—	901	—	105	674											
\$1,000,000 and over.....	1	1,213	138	1,075	—	90	900											

¹ Includes Boone, Box Butte, Burt, Butler, Cedar, Cheyenne, Colfax, Dawes, Dawson, Franklin, Frontier, Gage, Hitchcock, Holt, Hooker, Johnson, Merrick, Phelps, Pierce, Polk, Richardson, Sarpy, Saunders, Seward, 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 1929.

² Figures are included in respective county totals.

³ Includes air transport work.

⁴ Includes refuse disposal plant.

⁵ Includes levees.

⁶ Includes masonry and stonework.

⁷ Includes elevator construction; and ornamental iron.

⁸ Includes carpentering and wood flooring; plastering and lathing; and railroad.

⁹ Includes sewer, gas, water, conduit; dredging, river, harbor, etc.; and levee.

¹⁰ Includes carpentering and wood flooring; plastering and lathing; and grading.

CONSTRUCTION—NEBRASKA

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

CLASS OF OWNERSHIP AND TYPE OF CONSTRUCTION WORK	CONSTRUCTION BUSINESS REPORTED BY—						CLASS OF OWNERSHIP AND TYPE OF CONSTRUCTION WORK	CONSTRUCTION BUSINESS REPORTED BY—					
	All classes of establishments		General contractors		Subcontractors			All classes of establishments		General contractors		Subcontractors	
	Number reporting	Value	Number reporting	Value	Number reporting	Value		Number reporting	Value	Number reporting	Value	Number reporting	Value
NEBRASKA													
All construction business.....	243	\$45,345,134	159	\$37,597,313	84	\$7,747,821	NEBRASKA—Continued						
Distribution not reported.....	16	1,524,416	5	1,061,958	11	462,458							
Distributed by class of ownership.....	227	43,820,718	154	36,535,355	78	7,285,363	All business under subcontract—Continued.						
Private.....	172	14,151,917	105	9,280,538	67	4,891,379							
Quasi public or community.....	46	2,697,637	25	1,881,150	21	816,537	Distributed by class—Continued.						
Public.....	125	26,971,114	91	25,393,667	34	1,577,447							
Distribution not reported.....	13	2,505,498	12	2,466,855	1	38,583	Bridge and culvert.....						
Distributed by class of public ownership.....	112	24,465,676	79	22,926,812	33	1,538,864							
Federal.....	26	4,000,909	16	3,609,956	9	391,010	Railroad.....						
State.....	65	11,485,016	49	11,013,661	16	471,355							
County or township.....	50	4,286,249	37	3,831,424	13	454,825	Miscellaneous, n. e. s.....						
Municipal.....	58	4,693,415	39	4,471,741	19	221,674							
All business under general contract or directly for owners.....	203	39,543,450	158	37,291,021	45	2,252,429	All construction business.....						
Distribution not reported.....	4	148,613	2	99,453	2	49,160							
Distributed by class.....	199	39,394,837	156	37,191,568	43	2,203,269	Distribution not reported.....						
Building.....	130	14,972,354	89	12,881,414	41	2,090,940							
Distribution not reported.....	5	458,728	5	458,728	2	49,160	Distributed by class of ownership.....						
Distributed by class.....	125	14,513,626	84	12,422,080	41	2,090,940							
Commercial.....	40	4,010,827	57	4,029,289	23	551,638	Private.....						
Educational.....	81	2,326,978	22	2,103,285	19	223,093							
Hotel.....	8	370,642	4	365,922	4	4,720	Quasi public or community.....						
Hospital and institutional.....	19	1,133,652	11	840,734	8	292,918							
Manufacturing.....	14	305,361	8	278,311	6	27,050	Public.....						
Military and naval.....	1	752,328	1	648,676	1	103,653							
Public: Courts, jails, etc.....	10	24	3	838,975	11	85,218	Distribution not reported.....						
Religious and memorial.....	24	927,193	13	2,212,001	36	604,873							
Residential.....	91	2,816,874	55	783,203	5	27,880	Distributed by class of public ownership.....						
Social and recreational.....	15	810,583	10	169,351	1	6,140							
Air transport.....	6	175,401	1	152,940	8	180,757	Federal.....						
Rail and water transportation.....	2	253,697	12	1,133,652	3	280,348							
Miscellaneous.....	20	14,366,417	46	9,553,708	6	72,280	State.....						
Highway and street.....	48	280,348	3	888,624	3	685,624							
Railroad and car line.....	5	9,625,953	48	8,865,084	6	72,280	County or township.....						
Public works and utilities.....	54	685,624	3	685,624	3	685,624							
Distribution not reported.....	3	685,624	3	685,624	3	685,624	Municipal.....						
Distributed by class.....	51	8,937,304	45	8,865,084	6	72,280							
Bridge, tunnel, etc.....	22	2,805,798	21	2,805,798	1	(1)	All business under general contract or directly for owners.....						
Central station, light and power plant.....	7	106,659	6	(1)	1	(1)							
Dock, pier, retaining wall, etc.....	1	3,626,542	2	3,626,542	2	3,626,542	Distribution not reported.....						
River and harbor improvement.....	2	542,792	8	542,792	8	542,792							
Flood control, irrigation, and land drainage.....	8	985,657	12	902,539	3	23,008	Distributed by class.....						
Refuse disposal plant.....	1	860,728	12	846,400	2	23,480							
Sewage disposal and drainage.....	16	9,158	2	37,092	3	37,092	Commercial.....						
Water supply.....	14	106,638	6	(1)	2	(1)							
Park, grounds, etc.....	2	106,638	6	(1)	2	(1)	Educational.....						
Miscellaneous.....	3	106,638	6	(1)	2	(1)							
Air transport work.....	1	106,638	6	(1)	2	(1)	Hotel.....						
Water power development.....	1	106,638	6	(1)	2	(1)							
Miscellaneous, n. e. s.....	8	106,638	6	(1)	2	(1)	Hospital and institutional.....						
All business under subcontract.....	77	5,801,684	14	306,292	63	5,495,392							
Distribution not reported.....	4	158,682	1	41,000	3	117,682	Manufacturing.....						
Distributed by class.....	73	5,643,002	13	265,292	60	5,377,710							
Carpentering and wood flooring.....	1	174,815	1	174,815	1	174,815	Public: Courts, jails, etc.....						
Painting and decorating.....	1	124,917	2	18,794	2	299,598							
Flooring, n. e. s.....	1	193,475	2	18,794	2	299,598	Religious and memorial.....						
Concreting.....	2	200,348	2	200,348	2	200,348							
Masonry.....	2	958,042	2	958,042	2	958,042	Residential.....						
Stone work.....	2	1,057,805	2	1,057,805	2	1,057,805							
Electrical.....	2	384,271	2	384,271	2	384,271	Air transport.....						
Elevator construction.....	2	556,867	2	556,867	2	556,867							
Metal work, n. e. s.....	13	116,667	5	116,667	5	116,667	Rail and water transportation.....						
Heating and plumbing.....	2	538,648	5	538,648	5	538,648							
Heating and piping.....	13	757,443	7	757,443	7	757,443	Miscellaneous.....						
Pipe covering.....	2	490,551	7	490,551	7	490,551							
Plumbing.....	14	266,892	1	266,892	1	266,892	Highway and street.....						
Plumbing and heating combined.....	5	981,492	2	10,132	2	1,113,000							
Plastering and lathing.....	1	141,640	1	(1)	1	(1)	Railroad and car line.....						
Marble and tiling.....	5	57,312	1	(1)	1	(1)							
Roofing and sheet-metal work.....	7	266,892	1	(1)	1	(1)	Public works and utilities.....						
Roofing.....	3	149,404	2	165,506	2	165,506							
Sheet-metal work.....	8	266,892	2	165,506	2	165,506	Distribution not reported.....						
Roofing and sheet metal combined.....	1	230,416	1	230,416	1	230,416							
Steel erection.....	3	230,416	1	230,416	1	230,416	Distributed by class.....						
Ornamental iron.....	3	230,416	1	230,416	1	230,416							
Excavating.....	9	230,416	1	230,416	1	230,416	Bridge, tunnel, etc.....						
Highway.....	1	230,416	1	230,416	1	230,416							
Street paving.....	1	230,416	1	230,416	1	230,416	Central station, light and power plant.....						
Rental of equipment, trucking, etc.....	2	230,416	1	230,416	1	230,416							
Grading.....	4	230,416	1	230,416	1	230,416	Dock, pier, retaining wall, etc.....						

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

TABLE 3.—CONSTRUCTION BUSINESS DURING 1929, BY LOCATION

CLASSIFICATION OF ESTABLISHMENTS	Establishments reporting	Total	In home city	In home State	Outside home State	CLASSIFICATION OF ESTABLISHMENTS	Establishments reporting	Total	In home city	In home State	Outside home State
NEBRASKA	237	\$43,096,199	\$12,806,552	\$25,240,292	\$18,455,907	OMAHA	101	\$23,527,398	\$7,141,688	\$12,847,871	\$10,679,525
General contractors.....	155	30,198,878	8,114,542	19,233,240	16,965,638	General contractors.....	53	17,721,293	3,834,901	8,412,507	9,308,731
Building.....	86	12,265,638	6,760,942	9,970,353	2,295,285	Building.....	23	4,191,550	2,862,235	4,163,717	87,863
Building not specialized.....	61	10,855,983	5,491,287	8,600,698	2,256,285	Building not specialized.....	13	3,523,149	2,193,804	3,435,286	87,863
Commercial building only.....	9	625,384	516,384	580,384	40,000	Commercial building only.....	5	397,290	397,290	397,290	-----
Residential building only.....	16	784,271	753,271	734,271	-----	Residential building only.....	5	271,135	271,135	271,135	-----
Highway.....	22	10,456,488	23,295	4,971,885	5,484,603	Highway.....	8	5,316,023	33,873	1,520,897	3,780,126
Bridge and culvert.....	14	2,532,050	15,824	1,877,045	655,005	Bridge and culvert.....	4	1,770,870	-----	1,197,870	573,000
Grading ¹	13	3,625,093	-----	584,637	3,040,409	Grading.....	6	3,207,315	-----	280,909	3,020,400
Street paving.....	7	1,296,892	802,419	1,020,751	276,141	Street paving.....	6	1,233,260	733,793	957,125	276,141
Sewer, gas, water, conduit ²	5	638,980	56,202	322,848	316,132	Dam, reservoir, and water-works.....	3	1,329,114	200,000	245,000	1,084,114
Dam, reservoir, and water-works.....	4	1,486,114	241,000	311,000	1,175,114	Other classes ³	3	573,130	-----	92,049	481,081
Dredging, river, harbor, etc. ³	4	3,897,023	8,800	174,071	3,722,952	Subcontractors.....	48	5,806,098	3,306,685	4,435,304	1,370,794
Subcontractors.....	82	7,407,321	4,692,010	6,007,052	1,490,269	Electrical.....	8	382,040	343,760	382,040	-----
Concreting ⁴	5	276,038	276,038	276,038	-----	Heating and plumbing.....	15	1,382,172	964,422	1,111,172	271,000
Electrical.....	9	412,180	343,759	412,180	-----	Heating and piping.....	4	190,927	151,512	190,927	-----
Heating and plumbing.....	37	2,400,371	1,957,931	2,212,871	277,500	Plumbing.....	6	515,633	508,183	515,633	-----
Heating and piping.....	7	440,199	333,504	433,000	6,500	Plumbing and heating combined.....	5	675,562	304,737	404,562	271,000
Plumbing.....	18	1,057,216	1,017,246	1,057,215	-----	Painting and decorating.....	6	215,074	212,141	212,641	2,433
Plumbing and heating combined.....	12	992,957	607,122	721,057	271,000	Roofing and sheet metal work.....	7	780,084	431,894	585,534	194,500
Painting and decorating.....	6	216,074	212,141	212,641	2,433	Roofing.....	4	562,832	220,832	376,832	186,000
Roofing and sheet metal work.....	10	1,013,837	646,368	818,787	195,100	Sheet metal work.....	3	217,252	202,032	203,752	8,500
Roofing.....	5	624,408	291,408	438,408	180,000	Steel erection ⁵	3	2,180,465	877,932	1,475,643	713,822
Sheet metal work.....	5	389,389	354,870	380,289	9,100	Marble and tiling.....	4	480,877	244,000	435,777	54,100
Steel erection ⁵	3	2,180,465	877,932	1,475,643	713,822	Other classes ⁶	5	360,780	231,841	231,841	134,939
Marble and tiling.....	5	544,348	299,170	400,248	54,100						
Grading and excavating.....	4	244,314	-----	30,000	214,314						
Other classes ⁶	2	111,044	78,044	78,044	33,000						

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

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

STATE	LOCATION REPORTED BY—			STATE	LOCATION REPORTED BY—		
	All classes of establishments	General contractors	Subcontractors		All classes of establishments	General contractors	Subcontractors
NEBRASKA				OMAHA			
Total distributed by State ¹	\$18,455,907	\$16,965,638	\$1,490,269	Total distributed by State ²	\$10,679,525	\$9,308,731	\$1,370,794
Alabama.....	300,000	300,000	-----	Alabama.....	300,000	300,000	-----
Arkansas.....	37,133	34,133	3,000	Arkansas.....	37,133	34,133	3,000
Colorado.....	565,252	153,723	411,529	Colorado.....	411,529	-----	411,529
Illinois.....	1,053,095	928,434	123,661	Illinois.....	332,900	-----	235,826
Indiana.....	12,381	12,381	-----	Indiana.....	12,381	-----	12,381
Iowa.....	4,719,037	4,213,970	505,061	Iowa.....	3,683,424	3,169,151	480,273
Kansas.....	3,077,994	3,040,994	37,000	Kansas.....	999,953	963,553	36,400
Minnesota.....	40,000	-----	40,000	Minnesota.....	40,000	-----	40,000
Mississippi.....	63,000	63,000	-----	Mississippi.....	63,000	63,000	-----
Missouri.....	4,337,602	4,302,602	35,000	Missouri.....	2,270,076	2,241,076	35,000
Montana.....	37,000	-----	37,000	North Dakota.....	15,000	-----	16,000
North Dakota.....	16,000	-----	16,000	Oklahoma.....	276,336	270,336	-----
Oklahoma.....	282,630	282,630	-----	Pennsylvania.....	160,000	-----	160,000
Pennsylvania.....	160,000	-----	160,000	South Dakota.....	595,700	544,358	51,353
South Dakota.....	771,175	680,822	84,353	Texas.....	466,924	466,924	-----
Texas.....	466,924	466,924	-----	Wyoming.....	340,870	311,805	29,065
Wyoming.....	401,875	366,310	35,565	Other States, n. s.....	662,590	600,400	2,190
Other States, n. s.....	2,115,163	2,113,003	2,100				

Number of establishments reporting:
¹ All classes, 63; general contractors, 50; subcontractors, 13.
² All classes, 41; general contractors, 28; subcontractors, 13.

CONSTRUCTION—NEBRASKA

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

CLASSIFICATION OF ESTABLISHMENTS	Establishments reporting	PROPRIETORS AND FIRM MEMBERS				SALARIED EMPLOYEES								Sex not reported
		Receiving no salary	Receiving salaries		All salaried employees		Officers and clerical staff		Superintendents, foremen, etc.		Number reported, by sex			
			Number	Total annual salaries	Total number	Total annual salaries	Number	Total annual salaries	Number	Total annual salaries	Total	Male	Female	
NEBRASKA	240	187	81	\$220, 823	739	\$1, 871, 878	353	\$978, 337	366	\$895, 541	670	587	83	69
General contractors.....	163	137	48	119, 710	568	1, 490, 477	232	725, 791	336	773, 686	526	478	48	42
Building.....	88	77	32	90, 978	192	488, 451	78	108, 258	114	202, 193	177	160	17	15
Building not specialized.....	63	52	31	86, 478	156	416, 763	59	165, 318	97	251, 445	154	140	14	2
Commercial building only.....	9	7	1	4, 500	21	45, 888	8	12, 640	13	33, 248	11	10	1	10
Residential building only.....	16	18	1	.....	15	25, 800	11	18, 300	4	7, 500	12	10	2	3
Highway.....	23	15	5	16, 745	188	455, 104	57	199, 317	131	255, 787	165	156	9	28
Bridge and culvert.....	14	8	5	7, 800	70	200, 034	42	146, 114	28	53, 020	70	60	10	.....
Grading ¹	14	18	4	4, 187	35	99, 718	14	58, 500	21	31, 018	35	33	2	.....
Street paving.....	6	7	.....	.....	21	70, 200	9	30, 865	20	39, 425	29	28	1	.....
Sewer, gas, water, conduit ²	5	5	.....	.....	8	17, 020	5	9, 800	3	7, 220	7	7	.....	1
Dam, reservoir, and waterworks.....	4	4	.....	.....	17	61, 587	9	40, 687	8	20, 900	14	12	2	3
Dredging, river, harbor, etc. ³	4	3	.....	.....	29	116, 273	18	49, 950	11	72, 323	29	22	7	.....
Subcontractors.....	82	50	35	101, 113	171	372, 401	121	250, 546	50	121, 855	144	109	35	27
Concreting.....	4	4	.....	.....	5	4, 400	3	2, 100	2	2, 240	5	5	.....	.....
Electrical.....	0	2	4	12, 244	18	25, 761	11	12, 311	7	23, 450	15	8	7	3
Heating and plumbing.....	37	27	16	43, 651	71	149, 188	53	100, 824	18	48, 364	50	40	10	15
Heating and pipe covering.....	8	7	2	4, 726	22	52, 007	19	43, 857	3	9, 050	22	15	7	.....
Plumbing.....	17	12	10	30, 625	31	51, 014	22	31, 285	9	20, 629	23	15	8	8
Plumbing and heating combined.....	12	8	4	8, 309	18	44, 367	12	25, 682	6	18, 685	11	10	1	7
Painting and decorating.....	6	2	3	9, 000	7	14, 567	6	12, 187	1	2, 380	6	5	1	1
Roofing and sheet-metal work.....	9	4	3	9, 878	29	67, 243	23	56, 703	6	10, 540	26	18	8	3
Roofing.....	4	1	.....	.....	23	60, 459	19	51, 645	4	8, 814	23	16	7	.....
Sheet metal work.....	5	3	3	9, 878	6	6, 784	4	5, 058	2	1, 726	3	2	1	3
Steel erection ⁴	3	3	2	10, 000	22	56, 292	16	44, 641	6	11, 651	22	20	2	.....
Stone work and masonry.....	3	1	.....	.....	6	17, 700	3	6, 500	3	11, 200	2	2	.....	4
Marble and tiling.....	5	3	7	16, 340	7	14, 780	5	11, 720	2	3, 060	6	5	1	1
Grading and excavating.....	4	5	.....	.....	4	5, 850	.....	.....	4	5, 850	4	4	.....	.....
Other classes ⁵	3	2	.....	.....	2	6, 620	1	3, 500	1	3, 120	2	2	.....	.....
OMAHA	103	67	25	68, 110	418	1, 085, 565	213	634, 076	205	451, 489	376	329	47	42
General contractors.....	54	45	8	20, 960	290	764, 697	123	418, 033	167	346, 664	264	241	23	26
Building.....	23	20	7	17, 960	69	176, 284	30	87, 962	39	88, 322	58	50	8	11
Building not specialized.....	13	15	6	13, 460	43	118, 282	15	58, 562	28	59, 720	42	37	5	1
Commercial building only.....	6	2	1	4, 500	18	40, 202	7	11, 600	11	28, 602	8	7	1	10
Residential building only.....	5	3	.....	.....	8	17, 800	8	17, 800	.....	.....	8	6	2	.....
Highway.....	8	3	.....	.....	98	235, 782	25	84, 097	73	151, 085	80	53	3	12
Bridge and culvert.....	4	2	.....	.....	45	141, 236	32	114, 422	13	26, 814	45	39	6	.....
Grading.....	7	9	1	3, 000	28	80, 418	13	56, 400	15	24, 018	28	26	2	.....
Street paving.....	6	7	.....	.....	29	70, 290	9	30, 865	20	39, 425	29	28	1	.....
Dam, reservoir, and waterworks.....	3	4	.....	.....	11	29, 687	7	18, 687	4	11, 000	8	6	2	3
Other classes ⁶	3	.....	.....	.....	10	31, 000	7	25, 000	3	6, 000	10	9	1	.....
Subcontractors.....	49	22	17	48, 150	128	320, 868	90	216, 043	38	104, 825	112	88	24	16
Electrical.....	8	2	3	9, 844	10	33, 404	9	9, 954	7	28, 450	15	8	7	1
Heating and plumbing.....	10	7	4	9, 126	44	115, 116	32	77, 381	12	37, 735	35	28	7	9
Heating and pipe covering.....	5	3	2	4, 726	19	49, 789	16	40, 739	3	9, 050	19	15	4	.....
Plumbing.....	6	3	1	2, 400	13	26, 987	10	16, 987	3	10, 000	8	5	3	5
Plumbing and heating combined.....	5	1	1	2, 000	12	38, 340	6	19, 655	6	18, 685	8	8	.....	4
Painting and decorating.....	6	2	3	9, 000	7	14, 567	6	12, 187	1	2, 380	6	5	1	1
Roofing and sheet-metal work.....	6	3	.....	.....	23	60, 769	18	50, 240	5	9, 629	22	16	6	1
Steel erection ⁴	3	.....	2	10, 000	22	56, 292	16	44, 641	6	11, 651	22	20	2	.....
Stone work and concreteing.....	3	3	.....	.....	7	18, 660	4	7, 400	3	11, 200	3	3	.....	4
Marble and tiling.....	4	3	5	10, 180	6	13, 740	4	10, 680	2	3, 060	6	5	1	.....
Other classes ⁷	3	2	.....	.....	3	9, 320	1	3, 500	2	5, 820	3	3	.....	.....

¹ Includes air transport work.
² Includes refuse disposal plant.
³ Includes levee.
⁴ Includes elevator construction; and ornamental iron.
⁵ 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.

CONSTRUCTION—NEBRASKA

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

CLASSIFICATION OF ESTABLISHMENTS AND PERCENTAGE OF EQUIPMENT OWNED	Establishments reporting	EQUIPMENT		Value of construction business reported	Wages paid	CLASSIFICATION OF ESTABLISHMENTS AND PERCENTAGE OF EQUIPMENT OWNED	Establishments reporting	EQUIPMENT		Value of construction business reported	Wages paid
		Purchased during the year	Inventory value at end of year					Purchased during the year	Inventory value at end of year		
NEBRASKA	227	\$1,680,838	\$6,130,232	\$42,951,497	\$10,057,758	OMAHA	100	\$815,216	\$3,120,577	\$23,579,120	\$5,430,118
<i>Classification of establishments</i>						<i>Classification of establishments</i>					
General contractors	149	1,587,148	5,713,455	35,528,876	8,014,371	General contractors	52	774,201	2,827,035	17,701,851	4,351,888
Building	80	68,796	403,416	11,700,008	2,563,306	Building	22	20,260	136,800	4,153,002	855,162
Building not specialized	59	59,209	359,417	10,432,318	2,300,450	Building not specialized	12	14,873	111,191	3,485,471	724,057
Commercial building only	7	6,887	34,689	524,084	127,513	Commercial building only	5	5,387	24,688	397,296	100,250
Residential building only	14	2,700	12,310	693,601	135,334	Residential building only	5	1,010	1,010	271,135	30,845
Highway	22	424,000	1,709,654	10,333,290	2,208,025	Highway	8	173,057	1,004,000	5,316,023	1,200,328
Bridge and culvert	14	44,479	225,165	2,532,050	341,157	Bridge and culvert	4	10,202	73,733	1,770,870	149,730
Grading ¹	13	363,911	933,101	3,643,324	1,535,509	Grading	6	278,272	705,401	3,325,549	1,450,114
Street paving	7	107,817	385,127	1,296,892	310,354	Street paving	6	100,317	333,127	1,233,266	292,354
Sewer, gas, water, conduit ²	5	10,478	89,704	538,980	150,607	Dam, reservoir, and water-works	3	137,182	201,743	1,320,114	239,153
Dam, reservoir, and water-works	4	137,182	242,434	1,486,114	287,021	Other classes ³	3	55,000	306,232	573,130	159,048
Dredging, river, harbor, etc. ²	4	423,885	1,727,854	3,897,023	1,150,532	Subcontractors	48	40,925	293,542	5,874,269	1,078,230
Subcontractors	78	73,685	410,777	7,422,021	1,443,387	Electrical	8	3,217	12,021	852,046	109,632
Concreting ⁴	6	9,017	88,354	373,038	126,509	Heating and plumbing	14	8,731	51,052	1,347,343	260,872
Electrical	8	3,217	12,021	382,648	109,632	Heating and piping	4	3,100	10,875	190,927	35,999
Heating and plumbing	34	15,588	117,165	2,360,172	470,959	Plumbing	6		21,183	480,854	84,445
Heating and piping	7	5,780	16,108	440,109	87,106	Plumbing and heating combined	5	5,031	19,014	675,562	127,428
Plumbing	17	3,204	60,003	1,022,386	209,085	Painting and decorating	0	0,013	12,709	215,074	90,937
Plumbing and heating combined	10	6,604	40,154	600,587	173,868	Roofing and sheet-metal work	7	8,121	40,577	780,084	163,749
Painting and decorating	6	6,013	12,709	215,074	90,937	Roofing	4	5,554	29,556	562,832	105,000
Roofing and sheet-metal work	9	12,321	53,759	866,020	208,372	Sheet-metal work	3	2,597	11,021	217,252	57,843
Roofing	5	5,554	33,543	624,408	117,335	Steel erection ⁵	3	11,502	53,428	2,189,465	201,153
Sheet-metal work	4	6,767	20,216	362,422	85,037	Stonework and concrete	3	1,017	74,754	250,197	94,169
Steel erection ⁵	3	11,502	53,428	2,180,465	201,153	Marble and tiling	4	1,624	26,000	489,877	114,988
Marble and tiling	3	2,124	34,340	544,848	129,221	Other classes ⁶	3	700	23,000	213,583	52,730
Grading and excavating	4	13,203	44,000	244,314	66,814	<i>Percentage of equipment owned⁷</i>					
Other classes ⁶	3	700	1,000	111,044	48,780	General contractors	52	774,201	2,827,035	17,701,851	4,351,888
<i>Percentage of equipment owned</i>						None	2			178,249	10,000
General contractors	149	1,587,148	5,713,455	35,528,876	8,014,371	1% to 25%	1		300	33,000	10,000
None	4			313,710	35,857	26% to 50%	1	370	7,665	136,481	22,890
1% to 25%	2	100	1,300	92,500	19,060	76% to 90%	10	362,203	982,869	7,332,017	2,316,314
26% to 50%	1	370	7,065	136,481	22,890	100%	37	317,707	1,765,710	9,655,480	1,992,714
51% to 75%	2	700	10,150	199,144	38,000	Not reported	1	94,011	70,501	360,024	
76% to 90%	22	783,658	2,600,074	12,527,891	3,801,517	Subcontractors	48	40,925	293,542	5,874,269	1,078,230
100%	110	708,800	3,023,565	21,835,125	4,601,082	None	1			321,493	60,093
Not reported	2	94,011	70,701	404,026	7,999	100%	47	40,925	293,542	5,552,776	1,018,137
Subcontractors	78	73,685	410,777	7,422,021	1,443,387						
None	2			354,493	73,093						
1% to 25%	1	422	3,208	72,432	15,347						
26% to 50%	1										
51% to 75%	2	12,208	14,000	79,375	34,874						
76% to 90%	73	61,060	300,569	6,010,321	1,320,073						
100%											
Not reported											

¹ Includes air transport work.
² Includes refuse disposal plant.
³ Includes levees.
⁴ Includes masonry and stonework.
⁵ Includes elevator construction; and ornamental iron.

⁶ Includes carpentering and wood flooring; plastering and lathing; and railroad.
⁷ Includes sewer, gas, water, conduit; dredging, river, harbor, etc.; and levees.
⁸ Includes carpentering and wood flooring; plastering and lathing; and grading.
⁹ For complete classification, see tabulation for State above.

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

CLASSIFICATION OF ESTABLISHMENTS AND LENGTH OF WORKING WEEK	Establishments reporting	NUMBER EMPLOYED ON 15TH DAY OF THE MONTH OR NEAREST REPRESENTATIVE DAY												Wages paid during year
		January	February	March	April	May	June	July	August	September	October	November	December	
NEBRASKA	221	3,354	3,116	4,046	6,497	7,708	9,219	9,998	11,329	10,543	10,868	8,758	5,846	\$10,153,816
<i>Classification of establishments</i>														
General contractors	143	2,768	2,522	3,383	5,643	6,877	8,233	9,014	10,213	9,416	9,769	7,899	5,220	8,715,014
Building	79	991	1,056	1,380	1,825	2,128	2,299	2,880	2,378	2,136	2,193	1,873	1,608	2,625,813
Building not specialized	58	853	933	1,256	1,641	1,904	2,070	2,162	2,165	1,920	1,958	1,671	1,446	2,389,648
Commercial building only	8	46	41	42	70	86	110	103	105	99	118	95	77	107,213
Residential building only	13	62	76	82	114	128	119	124	118	107	117	107	85	128,952
Highway	22	518	293	462	1,080	1,713	2,304	2,768	3,251	3,224	3,356	1,983	833	2,347,685
Bridge and culvert	14	73	78	126	239	321	360	303	412	338	265	226	161	841,157
Grading	12	204	193	310	1,063	1,103	1,129	1,144	1,185	1,135	1,109	990	729	1,514,779
Street paving	6	84	95	96	148	197	217	202	451	461	484	445	101	299,108
Sewer, gas, water, conduit ¹	4	68	58	82	144	169	207	202	203	171	180	145	131	153,459
Dam, reservoir, and waterworks	3	208	205	261	317	333	386	284	310	254	285	314	177	287,921
Dredging, river, harbor, etc. ²	3	612	545	646	827	873	1,271	1,488	2,023	1,707	1,801	1,923	1,480	1,146,092
Subcontractors	78	596	594	663	854	921	980	984	1,116	1,127	1,099	859	726	1,437,902
Concreting ³	6	25	25	24	45	50	58	88	92	88	88	58	68	126,600
Electrical	9	48	54	57	60	61	55	55	60	55	55	61	63	112,589
Heating and plumbing	33	232	277	279	287	308	314	332	322	334	357	355	336	467,616
Heating and pipe covering	8	45	43	40	44	60	87	82	85	86	86	84	72	108,064
Plumbing	16	104	104	171	177	177	165	161	162	164	167	169	164	208,636
Plumbing and heating combined	9	73	70	68	66	69	74	84	88	95	114	112	110	100,317

See footnotes at end of table.

CONSTRUCTION—NEBRASKA

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

CLASSIFICATION OF ESTABLISHMENTS AND LENGTH OF WORKING WEEK	Estab-lish-ments reporting	NUMBER EMPLOYED ON 15TH DAY OF THE MONTH OR NEAREST REPRESENTATIVE DAY												Wages paid during year
		Janu-ary	Febru-ary	March	April	May	June	July	August	Septem-ber	Octo-ber	Novem-ber	Decem-ber	
NEBRASKA—Continued.														
<i>Classification of establishments—Contd.</i>														
Subcontractors—Continued.	6	35	20	49	65	83	89	63	69	66	52	47	28	\$90,937
Painting and decorating.....	10	68	71	121	141	187	135	149	154	149	141	143	98	207,061
Roofing and sheet metal work.....	5	21	29	71	76	70	70	91	90	80	72	67	41	117,355
Roofing.....	5	47	42	50	65	67	65	58	58	69	69	76	52	90,326
Sheet metal work.....	3	75	74	73	81	84	102	104	114	121	96	79	60	201,153
Steel erection ¹	4	56	50	46	88	99	102	86	72	73	50	54	54	121,853
Marble and tiling.....	4	4	4	3	42	44	71	92	93	105	38	15	15	60,814
Grading and excavating.....	4	4	8	11	46	37	28	15	140	153	154	4	3	48,700
Other classes ²	3	4												
<i>Length of working week</i>														
General contractors.....	143	2,758	2,522	3,383	5,043	6,877	8,233	9,014	10,213	9,416	9,709	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.....	10	217	268	319	560	506	540	486	365	312	498	408	470	613,920
44-hour, 5½-day week.....	2	93	88	120	118	148	150	176	232	213	189	141	130	306,706
49½-hour, 5½-day week.....														
55-hour, 5½-day week.....	1	5	5	10	10	10	13	9	7	9	11	11	5	9,092
All other 5½-day week.....	17	401	414	531	720	840	977	1,010	1,049	903	893	800	547	857,753
48-hour, 6-day week.....	23	187	195	300	317	380	487	507	524	471	430	372	311	515,841
54-hour, 6-day week.....	40	1,604	1,373	1,829	3,484	4,279	5,339	6,080	7,040	6,452	6,095	5,426	3,339	5,619,938
60-hour, 6-day week.....	14	130	114	170	303	477	483	477	583	583	470	255	186	465,769
All other 6-day week.....	6	103	43	77	104	112	197	247	373	428	438	403	201	277,340
All other not designated.....	1	18	22	27	27	35	35	42	40	45	45	23	25	20,465
Not reported.....														
Subcontractors.....	78	596	594	663	854	921	986	984	1,116	1,127	1,099	859	726	1,437,902
40-hour, 5-day week.....	1	12	10	8	11	14	16	16	16	16	16	16	16	16,558
45-hour, 5-day week.....														
50-hour, 5-day week.....														
All other 5-day week.....														
44-hour, 5½-day week.....	37	384	399	442	542	581	552	528	544	550	510	469	426	918,145
49½-hour, 5½-day week.....														
55-hour, 5½-day week.....														
All other 5½-day week.....	18	122	108	110	136	150	177	172	290	318	314	192	155	230,018
48-hour, 6-day week.....	9	34	36	46	61	50	55	74	75	74	76	73	63	91,087
54-hour, 6-day week.....	7	6	8	27	71	90	109	136	134	118	133	65	31	87,145
60-hour, 6-day week.....	2	11	9	9	9	11	13	13	14	14	13	13	13	17,457
All other 6-day week.....	2	5	7	5	8	11	20	23	24	21	21	10	2	19,746
All other not designated.....	2	22	17	16	16	25	44	22	19	16	16	21	20	48,106
Not reported.....														
OMAHA.....													5,368,381	
<i>Classification of establishments</i>														
General contractors.....	48	1,232	1,077	1,394	2,812	3,374	3,795	4,180	4,573	4,423	4,519	3,546	2,285	4,298,081
<i>Building</i>	20	295	324	398	554	670	610	609	677	643	733	549	586	814,281
Building not specialized.....	13	229	261	344	487	597	544	622	605	577	661	473	528	733,180
Commercial building only.....	4	31	25	24	31	39	49	47	44	40	53	56	51	60,250
Residential building only.....	3	35	38	30	39	34	28	30	28	26	39	20	7	20,845
<i>Highway</i>	8	350	164	230	579	898	1,287	1,458	1,736	1,704	1,732	1,100	593	1,200,328
Bridge and culvert.....	4	38	42	48	86	125	135	152	173	111	88	61	44	149,739
Grading.....	6	196	185	284	1,001	1,031	1,047	1,076	1,101	1,073	1,047	938	688	1,455,324
Street paving.....	5	81	92	91	143	172	177	321	391	391	454	430	99	281,108
Other classes ³	5	272	270	334	449	480	559	474	495	441	454	470	275	398,201
Subcontractors.....	47	401	413	475	615	637	698	600	631	642	602	529	468	1,060,400
<i>Electrical</i>	8	47	53	56	53	50	54	54	58	53	54	50	62	100,632
Heating and plumbing.....	14	120	130	135	133	127	130	142	137	143	167	154	150	240,430
Heating and pipe covering.....	5	25	23	22	23	31	37	45	47	52	56	48	39	55,557
Plumbing.....	5	52	64	72	72	69	58	52	48	38	35	38	37	84,445
Plumbing and heating combined.....	4	43	43	41	38	38	41	49	52	56	73	71	74	100,428
Painting and decorating.....	6	35	29	40	65	83	89	63	66	66	52	47	28	90,987
Roofing and sheet-metal work.....	7	53	56	100	103	102	100	94	103	104	97	90	61	163,749
Roofing.....	4	20	28	64	76	64	64	64	73	73	66	63	37	105,906
Sheet-metal work.....	3	33	28	36	36	38	36	30	30	31	31	27	24	57,843
Steel erection ⁴	3	75	74	73	81	84	102	104	114	121	96	79	66	261,153
Stone work and concreting.....	3	22	21	13	22	41	54	53	60	60	61	60	53	94,169
Marble and tiling.....	3	45	42	38	84	93	91	64	55	62	41	45	45	107,600
Other classes ⁵	3	4	8	11	66	57	48	35	35	33	34	4	3	52,730
<i>Length of working week³</i>														
General contractors.....	48	1,232	1,077	1,394	2,812	3,374	3,795	4,180	4,573	4,423	4,519	3,546	2,285	4,298,081
44-hour, 5½-day week.....	14	155	174	199	334	404	325	339	263	238	380	325	388	426,336
49½-hour, 5½-day week.....	2	93	88	120	118	148	150	176	232	213	189	141	136	305,796
All other 5½-day week.....	1	5	5	10	10	10	13	9	7	9	11	11	5	9,092
48-hour, 6-day week.....	5	228	229	292	395	433	529	487	511	454	442	445	247	375,937
54-hour, 6-day week.....	2	3	4	24	28	31	36	36	38	43	28	26	27	48,663
60-hour, 6-day week.....	18	589	470	583	1,653	1,990	2,274	2,620	2,797	2,695	2,670	2,076	1,199	2,656,339
All other 6-day week.....	2	45	60	90	185	240	240	240	340	340	335	120	73	200,585
All other not designated.....	3	96	35	49	62	83	187	231	345	386	419	379	185	255,778
Not reported.....	1	18	22	27	27	35	35	42	40	45	45	23	25	20,466
Subcontractors.....	47	401	413	475	615	637	698	600	631	642	602	529	468	1,060,400
40-hour, 5-day week.....	1	12	10	8	11	14	16	16	16	16	16	16	16	16,558
44-hour, 5½-day week.....	34	325	348	390	489	496	492	468	479	401	448	406	308	874,713
48-hour, 6-day week.....	2	35	22	28	27	26	31	26	26	28	31	31	31	58,076
54-hour, 6-day week.....	5	24	26	35	50	39	44	47	47	45	44	41	33	62,300
60-hour, 6-day week.....	3	2	4	11	35	40	52	51	55	58	59	32	18	40,661
All other not designated.....	1	1	1	2	2	3	4	4	4	3	3	2	2	3,826
Not reported.....	1	2	2	1	1	10	29	7	7	1	1	1	1	13,266

¹ Includes refuse disposal plant.

² Includes levee.

³ Includes masonry and stone work.

⁴ Includes elevator construction; and ornamental iron.

⁵ Includes carpentering and woodflooring; plastering and lathing; and railroad.

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

⁷ Includes carpentering and wood floorings; plastering and lathing; and grading.

⁸ For complete classification, see tabulation for State above.

CONSTRUCTION—NEBRASKA

TABLE 8.—EXPENDITURES OF REPORTING ESTABLISHMENTS: 1929

CLASSIFICATIONS OF ESTABLISHMENTS	Estab-lish-ments report- ing	Value of construc- tion busi- ness re- ported	PRINCIPAL ITEMS OF EXPENDITURE			OTHER ITEMS OF EXPENDITURE								
			Subcon- tract work let	Wages paid	Cost of materials	Salaries		Rent for--		Interest	Con- tract bond pre- miums	Com- pensation and liability insur- ance pre- miums	All other overhead expenses	
						Propri- etors and firm mem- bers	Employ- ees	Equip- ment	Offices, etc.					
NEBRASKA	297	\$35,997,620	\$4,325,000	\$9,338,765	\$15,784,218	\$214,778	\$1,520,171	\$79,755	\$118,501	\$216,588	\$242,681	\$267,467	\$2,440,878	
General contractors.....	130	28,602,613	4,152,000	6,969,329	11,674,975	113,695	1,161,920	72,877	66,055	168,621	221,214	219,735	1,933,124	
Building.....	76	12,162,529	2,712,000	2,607,924	5,257,333	88,478	445,045	7,144	15,971	41,750	90,299	96,867	210,852	
Building not specialized.....	55	10,936,797	2,385,000	2,354,640	4,816,065	83,978	379,013	6,874	19,919	38,307	88,317	88,334	197,381	
Commercial building only.....	8	567,968	145,000	126,960	201,235	4,500	40,262	200	2,952	620	200	5,321	6,838	
Residential building only.....	13	657,736	182,000	126,934	240,033		25,800	70	2,100	2,828	1,782	3,152	6,633	
Highway.....	18	9,462,112	982,000	2,093,195	4,345,571	13,260	398,139	44,995	29,564	66,107	83,707	64,967	728,784	
Bridge and culvert.....	12	1,412,666	39,000	267,339	720,859	7,800	138,762	615	5,177	27,083	13,611	12,482	132,345	
Grading.....	9	3,150,355	336,000	1,414,137	599,590	4,187	58,418	4,736	7,233	12,567	4,293	19,405	298,630	
Street paving.....	6	1,228,892	30,000	229,108	384,353		76,399	7,328	6,163	9,795	14,531	10,726	336,730	
Sewer, gas, water, conduit.....	5	638,980	29,000	156,607	369,594		17,020	8,059	1,195	5,671	9,906	7,614	53,329	
Other classes.....	4	546,879	24,000	155,019	96,793		61,137		752	5,348	4,867	7,734	170,574	
Subcontractors.....	77	7,395,007	173,000	1,367,436	4,109,243	101,113	358,251	6,878	52,446	47,967	21,447	47,732	507,754	
Concreting.....	5	276,038	1,900	72,509	145,094		19,600	1,063	627	893	874	2,107	12,933	
Electrical.....	8	374,680		98,885	183,076	12,214	27,201		5,822	2,012	666	2,143	25,201	
Heating and plumbing.....	36	2,541,317	93,000	496,787	1,366,592	43,651	149,188		27,884	13,199	8,566	11,441	177,023	
Heating and pipe covering.....	8	587,699	1,000	163,664	315,435	4,728	52,907		6,249	2,456	2,164	2,856	50,649	
Plumbing.....	17	1,019,781	6,000	214,463	652,769	30,625	51,914		15,575	7,916	969	5,683	74,995	
Plumbing and heating com- bined.....	11	933,937	86,000	178,660	438,248	8,300	44,367		6,060	2,827	5,373	2,592	51,388	
Painting and decorating.....	6	215,074	6,000	90,937	43,891	9,000	14,567	184	6,105	85	50	2,970	14,908	
Roofing and sheet-metal work.....	10	1,013,887	2,000	207,661	430,876	9,878	67,243		10,090	10,013	869	10,800	178,088	
Roofing.....	5	624,498		117,335	277,117		60,459		5,540	8,671		6,040	125,763	
Sheet-metal work.....	5	389,389	2,000	90,326	163,762	9,878	6,784		4,550	1,342		869	4,760	
Steel erection.....	3	2,189,465		201,153	1,623,686	10,000	56,292	631	738	19,258	8,620	15,047	24,511	
Marble and tiling.....	4	500,963		117,851	291,786	16,340	14,780		600	296		367	28,265	
Other classes.....	5	283,583	71,000	51,650	23,329		9,320	5,000	580	2,271	1,495	2,274	51,825	
OMAHA	91	\$20,200,904	\$2,430,000	\$4,817,177	\$5,247,124	\$69,110	\$12,715	\$1,760	\$60,032	\$116,709	\$24,358	\$40,588	\$1,607,997	
General contractors.....	44	14,328,191	2,267,000	3,791,580	4,928,610	20,960	697,847	49,882	26,952	77,936	104,780	103,547	1,248,992	
Building.....	22	4,153,902	1,195,000	855,152	1,524,155	17,960	176,284	4,394	9,680	7,266	30,705	36,014	69,403	
Building not specialized.....	12	3,485,471	992,000	724,057	1,317,573	13,460	118,282	4,124	4,628	5,746	30,070	30,286	51,979	
Commercial building only.....	5	397,290	93,000	100,250	133,395	4,500	40,262	200	2,952	620	200	4,665	3,322	
Residential building only.....	5	271,155	140,000	30,845	73,217		17,800	70	2,100	1,500	435	1,033	4,632	
Highway.....	7	4,666,028	691,000	1,033,128	1,937,333		203,082	33,224	5,664	26,533	41,564	27,440	360,748	
Bridge and culvert.....	3	745,970	30,000	100,539	357,106		76,736		2,600	21,375	7,100	6,098	105,990	
Grading.....	4	2,943,692	336,000	1,347,762	496,590	3,000	46,018	3,336	2,593	7,349	3,743	17,729	228,555	
Street paving.....	5	1,165,266	25,000	281,108	361,417		70,290	6,428	5,663	9,285	13,594	9,188	330,160	
Other classes.....	3	633,425	20,000	173,891	232,099		34,837	2,500	752	6,668	8,164	7,081	164,106	
Subcontractors.....	47	5,872,713	163,000	1,025,597	3,318,514	48,150	304,868	1,878	33,080	38,773	19,576	37,651	369,005	
Electrical.....	7	345,146		95,928	168,076	9,844	24,904		5,222	1,357	656	2,098	20,274	
Heating and plumbing.....	16	1,529,672	86,000	277,310	804,041	9,126	115,116		11,775	5,767	7,095	5,626	101,043	
Heating and pipe covering.....	5	338,427		55,557	162,485	4,726	49,789		4,877	1,793	1,512	1,600	43,850	
Plumbing.....	6	515,683		94,325	297,231	2,400	26,987		3,858	2,374	450	2,598	30,873	
Plumbing and heating com- bined.....	5	675,562	86,000	127,428	344,325	2,000	38,340		2,940	1,600	5,133	1,419	26,320	
Painting and decorating.....	6	215,074	6,000	90,937	43,891	9,000	14,567	184	6,105	85	50	2,970	14,908	
Roofing and sheet metal work.....	7	780,084	2,000	163,749	318,781		59,769		7,623	9,443	869	7,787	128,793	
Roofing.....	4	562,832		103,906	247,805		57,664		4,513	8,671		5,229	107,433	
Sheet metal work.....	3	217,252	2,000	57,843	70,976		2,105		3,110	772	869	2,558	21,390	
Steel erection.....	3	2,189,465		201,153	1,623,686	10,600	56,292	631	738	19,258	8,620	15,047	24,511	
Marble and tiling.....	3	446,492		103,621	271,786	10,180	13,740		600	94	367	1,066	20,318	
Other classes.....	5	386,780	69,000	92,899	88,263		20,480	1,063	1,017	2,709	1,919	2,457	49,168	

- 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; grading; and railroad.
- 7 Includes sewer, gas, water, conduit, dam and reservoir; and dredging, river, harbor, etc.
- 8 Includes carpentering and wood flooring; concreting; plastering and lathing; stonework; and grading.

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

KIND OF MATERIAL	COST OF MATERIALS REPORTED BY—					KIND OF MATERIAL	COST OF MATERIALS REPORTED BY—				
	All classes of establishments			General contractors	Subcontractors		All classes of establishments			General contractors	Subcontractors
	Amount	Per cent distribution	Per \$1,000 construction work done ¹				Amount	Per cent distribution	Per \$1,000 construction work done ¹		
NEBRASKA					OMAHA						
All kinds of material.....	\$18,630,503		\$402.13	\$14,404,266	\$4,226,237	All kinds of material.....	\$9,417,534		\$446.37	\$6,042,920	\$3,374,614
Distribution not reported.....	2,981,458	16.0		2,249,259	732,199	Distribution not reported.....	532,376	5.7		235,315	297,061
Distributed by kind.....	15,649,045	100.0		12,155,007	3,494,038	Distributed by kind.....	8,885,158	100.0		5,807,605	3,077,553
Sand, gravel, stone, slag, cinders, etc.	2,686,768	17.2	79.34	2,057,342	29,416	Sand, gravel, stone, slag, cinders, etc.	1,461,071	16.4	73.40	1,436,655	24,416
Brick (face, common, fire, paving, etc.)	573,821	3.7	16.95	571,821	2,000	Brick (face, common, fire, paving, etc.)	189,293	2.1	9.51	189,293	
Tile (fireproofing)	129,868	.8	3.84	129,868		Tile (fireproofing)	57,980	.7	2.91	57,980	
Tile, facing, terra cotta, floor, and wall	175,618	1.1	5.19	103,440	72,178	Tile, facing, terra cotta, floor, and wall	130,989	1.5	6.58	58,811	72,178
Concrete and cinder block	68,115	.4	2.01	59,717	8,398	Concrete and cinder block	48,365	.5	2.43	39,967	8,398
Cut stone, granite and marble	383,901	2.5	11.34	154,775	229,216	Cut stone, granite and marble	283,506	3.2	14.25	54,380	229,216
Riprap, rubble, etc.	181,977	1.2	5.37	181,977		Riprap, rubble, etc.	1,500	(²)	.08	1,500	
Cement	2,329,200	14.9	68.78	2,266,466	62,735	Cement	1,294,124	14.6	65.01	1,264,380	29,735
Lime	44,399	.3	1.31	43,399	1,000	Lime	17,413	.2	.87	16,413	1,000
Plaster, etc.	69,764	.4	2.06	65,764	4,000	Plaster, etc.	28,031	.3	1.41	24,031	4,000
Structural steel	2,277,608	14.6	67.26	1,477,608	800,000	Structural steel	1,807,617	20.3	90.81	1,007,617	800,000
Reinforcing steel	623,124	4.0	18.40	542,624	80,500	Reinforcing steel	323,384	3.6	16.25	243,384	80,000
Cast iron, miscellaneous, excluding pipe	40,180	.3	1.36	26,180	20,000	Cast iron, miscellaneous, excluding pipe	30,124	.3	1.51	10,124	20,000
Metal doors, windows, and trim	60,507	.4	1.79	60,507		Metal doors, windows, and trim	31,300	.4	1.57	31,300	
Metal and wire lath and furring	85,038	.5	2.51	85,038		Metal and wire lath and furring	41,265	.5	2.07	41,265	
Ornamental metal work	58,169	.4	1.72	58,169		Ornamental metal work	55,735	.6	2.80	55,735	
Lumber, rough and finished	1,011,581	6.5	29.87	1,009,366	2,215	Lumber, rough and finished	351,427	4.0	17.65	349,212	2,215
Lath, shingles, and shakes (wood)	15,402	.1	.45	15,402		Lath, shingles, and shakes (wood)	980	(²)	.05	980	
Millwork	484,561	3.1	14.31	484,561		Millwork	92,145	1.0	4.63	92,145	
Composition board	36,370	.2	1.07	30,870	5,500	Composition board	20,179	.2	1.01	14,679	5,500
Waterproofing materials	11,024	.1	.32	9,524	1,500	Waterproofing materials	4,723	.1	.24	3,223	1,500
Hardware, rough and finished	178,459	1.1	5.27	177,074	1,385	Hardware, rough and finished	41,380	.5	2.08	39,995	1,385
Paints, varnishes, glass	148,897	1.0	4.39	100,977	47,920	Paints, varnishes, glass	112,824	1.3	5.67	65,004	47,920
Roofing and sheet metal	437,421	2.8	12.92	50,489	386,932	Roofing and sheet metal	292,555	3.3	14.70	16,374	276,181
Finished flooring (other than cement, wood, or tile)	74,937	.5	2.21	74,937		Finished flooring (other than cement, wood, or tile)	14,246	.2	.71	14,246	
Screens, shades, awnings, etc.	8,675	.1	.25	8,675		Screens, shades, awnings, etc.	1,750	(²)	.09	1,750	
Heating and ventilating equipment	361,838	2.3	10.68	14,211	347,627	Heating and ventilating equipment	265,753	3.0	13.35	3,280	262,473
Plumbing and gas fitting equipment	502,912	3.2	14.85	20,760	482,152	Plumbing and gas fitting equipment	353,823	4.0	17.77	5,026	348,797
Electrical appliances and supplies	215,140	1.4	6.35	10,564	204,576	Electrical appliances and supplies	184,656	2.1	9.28	2,080	182,576
Elevators, dumb-waiters, and equipment	709,117	4.5	20.94	35,431	673,686	Elevators, dumb-waiters, and equipment	683,386	7.8	34.33	9,700	673,686
Pipe: Drain tile, vitrified, concrete, segment tile, corrugated	454,386	2.9	13.42	449,161	5,225	Pipe: Drain tile, vitrified, concrete, segment tile, corrugated	317,797	3.6	15.97	317,297	500
Pipe: Cast-iron, sheet and tube steel, etc.	253,514	1.6	7.49	232,014	21,500	Pipe: Cast-iron, sheet and tube steel, etc.	178,083	2.0	8.90	177,483	1,500
Wire cable, guards, and fencing	135,620	.9	4.01	135,620		Wire cable, guards, and fencing	15,505	.2	.78	15,505	
Bituminous paving materials, tar, asphalt, and oil	143,738	.9	4.25	139,861	3,877	Bituminous paving materials, tar, asphalt, and oil	90,839	1.0	4.56	86,922	3,877
Wood piling and timber	476,264	3.0	14.06	476,264		Ready-mixed concrete	1,664	(²)	.08	1,664	
Ready-mixed concrete	1,664	(²)	.05	1,664		Metal products, n. e. s. (including metal furniture)	134	(²)	.01	134	
Machinery	23,000	.2	.74	23,000		Miscellaneous	58,522	.7	2.94	58,022	500
Metal products, n. e. s. (including metal furniture)	1,942	(²)	.06	1,942							
Sealing materials	896	(²)	.03	896							
Textiles and calking materials	243	(²)	.01	243							
Miscellaneous	165,298	1.1	4.88	164,798	500						

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 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.

³ Less than one-tenth of 1 per cent.

CONSTRUCTION—NEBRASKA

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]

KIND OF MATERIAL AND CLASSIFICATION OF ESTABLISHMENTS	Cost of all materials distributed by kind	COST OF DESIGNATED MATERIAL		Value of construction business	Indicated per cent of all business done by own force ¹	KIND OF MATERIAL AND CLASSIFICATION OF ESTABLISHMENTS	Cost of all materials distributed by kind	COST OF DESIGNATED MATERIAL		Value of construction business	Indicated per cent of all business done by own force ¹		
		Amount	Per cent of—					Amount	Per cent of—				
												Total cost	Cost of all distributed materials
NEBRASKA						NEBRASKA—Continued							
<i>Sand, gravel, stone, slag, cinders, etc.²</i>						<i>Structural steel—Con.</i>							
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	\$12,155,007	2,057,342	98.9	21.9	\$30,340,229	87.1	Highway	1,147,843	794,052	34.9	69.2	2,309,602	98.5
Building	3,994,943	215,881	8.0	5.4	9,293,926	78.1	Bridge and culvert	500,500	60,000	2.6	12.0	2,806,325	87.9
Building not specialized	3,712,043	200,091	7.4	5.4	8,537,010	78.5	Street paving	399,301	1,800	.1	.5	1,156,441	97.7
Commercial building only	118,971	13,610	.5	11.4	310,296	76.8	Sewer, gas, water, conduit	315,522	743	(*)	.2	523,645	94.5
Residential building only	163,929	1,980	.1	1.2	446,620	73.2	Subcontractors	\$3,494,038	800,000	35.1	22.9	\$6,131,655	97.8
Highway	4,335,962	1,769,183	65.8	40.8	9,555,923	91.0	Steel erection	900,000	800,000	35.1	88.9	1,213,000	100.0
Bridge and culvert	1,147,843	91,706	3.4	8.0	2,309,602	98.5	<i>Reinforcing steel</i>						
Grading	500,500	301,000	11.3	60.7	2,806,325	87.9	All classes	15,049,045	623,124	100.0	4.0	30,471,884	88.0
Street paving	399,301	103,685	3.9	26.0	1,156,441	97.7	General contractors	\$12,155,007	542,624	87.1	4.5	\$30,340,229	87.1
Sewer, gas, water, conduit	315,522	20,121	1.0	8.3	523,645	94.5	Building	3,994,943	205,494	33.0	5.1	9,293,926	78.1
Dam and reservoir	15,858	636	(*)	4.0	145,000	55.3	Building not specialized	3,712,043	202,089	32.4	5.4	8,537,010	78.5
Waterworks	397,000	135,000	5.0	34.0	817,490	100.0	Commercial building only	118,971	3,075	.5	2.6	310,296	76.8
Refuse disposal plant	54,072	11,330	.4	21.0	115,335	100.0	Residential building only	163,929	330	.1	.2	446,620	73.2
Subcontractors	\$3,494,038	20,416	1.1	.8	\$6,131,655	97.8	Highway	4,335,962	245,383	30.4	5.7	9,555,923	91.0
Concreting	80,164	13,854	.5	17.3	131,054	99.4	Bridge and culvert	1,147,843	46,802	7.5	4.1	2,309,602	98.5
Heating and plumbing	\$861,857	700	(*)	.7	1,077,714	96.5	Grading	500,500	20,000	3.2	4.0	2,806,325	87.9
Heating and piping	102,485	700	(*)	1.0	190,927	99.8	Street paving	399,301	13,772	2.2	3.4	1,156,441	97.7
Plastering and lathing	7,900	3,000	.1	38.0	50,000	100.0	Sewer, gas, water, conduit	315,522	5,360	.9	1.7	523,645	94.5
Roofing and sheet-metal work	\$399,879	2,000	.1	.5	\$1,156,441	97.7	Dam and reservoir	15,858	3,580	6.0	22.0	145,000	55.3
Roofing	277,117	2,000	.1	.7	624,498	100.0	Refuse disposal plant	54,072	2,233	.4	4.1	115,335	100.0
Marble and tiling	256,386	9,802	.4	3.8	404,877	100.0	Subcontractors	\$3,494,038	80,500	12.9	2.3	\$6,131,655	97.8
Brick (face, common, fire, paving, etc.)							Concreting	80,164	500	.1	.6	131,054	99.4
All classes	15,649,045	573,821	100.0	3.7	36,471,884	88.9	Steel erection	900,000	80,000	12.8	8.9	1,213,000	100.0
General contractors	\$12,155,007	671,821	99.7	4.7	\$30,340,229	87.1	<i>Lumber, rough and finished</i>						
Building	3,994,943	548,581	95.0	13.7	9,293,926	78.1	All classes	15,649,045	1,011,581	100.0	6.5	36,471,884	88.9
Building not specialized	3,712,043	524,245	91.4	14.1	8,537,010	78.5	General contractors	\$12,155,007	1,009,366	99.8	8.3	\$30,340,229	87.1
Commercial building only	118,971	15,000	2.6	12.6	310,296	76.8	Building	3,994,943	402,074	45.7	11.0	9,293,926	78.1
Residential building only	163,929	9,336	1.6	5.7	446,620	73.2	Building not specialized	3,712,043	378,392	37.4	10.2	8,537,010	78.5
Highway	4,335,962	20,000	3.5	5.0	9,555,923	91.0	Commercial building only	118,971	28,240	2.8	23.7	310,296	76.8
Street paving	399,301	88	(*)	(*)	1,156,441	97.7	Residential building only	163,929	56,042	5.6	34.2	446,620	73.2
Sewer, gas, water, conduit	315,522	2,932	.5	.9	523,645	94.5	Highway	4,335,962	180,503	17.8	4.2	9,555,923	91.0
Refuse disposal plant	54,072	220	(*)	.4	115,335	100.0	Bridge and culvert	1,147,843	97,168	9.6	8.5	2,309,602	98.5
Subcontractors	\$3,494,038	2,000	.3	.1	\$6,131,655	97.8	Grading	500,500	30,000	3.0	6.0	2,806,325	87.9
Concreting	80,164	2,000	.3	2.5	131,054	99.4	Street paving	399,301	3,929	.4	1.0	1,156,441	97.7
Cut stone, granite and marble							Sewer, gas, water, conduit	315,522	2,354	.2	.7	523,645	94.5
All classes	15,649,045	383,991	100.0	2.5	36,471,884	88.9	Dam and reservoir	15,858	2,723	.3	17.2	145,000	55.3
General contractors	\$12,155,007	154,775	40.3	1.3	\$30,340,229	87.1	Dredging, river, harbor, etc.	994,006	225,868	22.3	22.7	3,616,542	95.7
Building	3,994,943	154,775	40.3	3.9	9,293,926	78.1	Refuse disposal plant	54,072	4,157	.4	7.7	115,335	100.0
Building not specialized	3,712,043	153,335	39.9	4.1	8,537,010	78.5	Subcontractors	\$3,494,038	2,215	.2	.1	\$6,131,655	97.8
Commercial building only	118,971	1,400	.4	1.2	310,296	76.8	Carpentering and wood-flooring	3,429	2,215	.2	64.6	28,044	100.0
Residential building only	163,929	40	(*)	(*)	446,620	73.2	<i>Millwork</i>						
Highway	4,335,962	220,216	59.7	6.6	\$6,131,655	97.8	All classes	\$15,649,045	484,561	100.0	3.1	\$36,471,884	88.9
Street paving	399,301	67,270	17.5	100.0	183,143	100.0	General contractors	\$12,155,007	494,561	100.0	4.0	\$30,340,229	87.1
Sewer, gas, water, conduit	315,522	161,946	42.2	63.2	404,877	100.0	Building	3,994,943	484,561	100.0	12.1	9,293,926	78.1
Refuse disposal plant	54,072	220	(*)	.4	115,335	100.0	Building not specialized	3,712,043	438,689	90.5	11.8	8,537,010	78.5
Subcontractors	\$3,494,038	2,000	.3	.1	\$6,131,655	97.8	Commercial building only	118,971	3,750	.8	8.2	310,296	76.8
Concreting	80,164	2,000	.3	2.5	131,054	99.4	Residential building only	163,929	42,122	8.7	25.7	446,620	73.2
Cement ³							<i>Roofing and sheet metal</i>						
All classes	15,649,045	2,320,200	100.0	14.9	36,471,884	88.9	All classes	15,649,045	437,421	100.0	2.8	36,471,884	88.9
General contractors	\$12,155,007	2,206,465	97.3	18.6	\$30,340,229	87.1	General contractors	\$12,155,007	50,489	11.5	.4	\$30,340,229	87.1
Building	3,994,943	316,680	13.6	7.9	9,293,926	78.1	Building	3,994,943	48,139	11.0	1.2	9,293,926	78.1
Building not specialized	3,712,043	301,414	12.9	8.1	8,537,010	78.5	Building not specialized	3,712,043	42,839	9.8	1.2	8,537,010	78.5
Commercial building only	118,971	13,866	.6	11.7	310,296	76.8	Commercial building only	118,971	5,000	1.1	4.2	310,296	76.8
Residential building only	163,929	1,400	.4	1.2	310,296	76.8	Residential building only	163,929	300	.1	.2	446,620	73.2
Highway	4,335,962	1,572,890	67.5	36.3	9,555,923	91.0	Bridge and culvert	1,147,843	2,350	.5	.2	2,309,602	98.5
Bridge and culvert	1,147,843	73,415	3.2	6.4	2,309,602	98.5	Subcontractors	\$3,494,038	386,932	88.5	11.1	\$6,131,655	97.8
Grading	500,500	80,000	3.4	16.0	2,806,325	87.9	Heating and plumbing	\$861,857	7,000	1.6	.8	\$1,677,714	96.5
Street paving	399,301	198,760	8.5	49.8	1,156,441	97.7	Heating and piping	102,485	6,000	1.4	5.9	190,927	99.8
Sewer, gas, water, conduit	315,522	14,127	.4	4.5	523,645	94.5	Plumbing	511,183	1,000	.2	.2	919,468	99.4
Dam and reservoir	15,858	3,507	.2	22.1	145,000	55.3	Roofing and sheet-metal work	399,879	379,932	86.9	95.0	\$14,504	99.8
Refuse disposal plant	54,072	7,086	.3	13.1	115,335	100.0	Roofing	277,117	269,617	61.6	97.3	624,498	100.0
Subcontractors	\$3,494,038	62,735	2.7	1.8	\$6,131,655	97.8	Sheet-metal work	112,567	102,467	23.4	91.0	268,039	99.4
Concreting	80,164	51,535	2.2	64.3	131,054	99.4	Roofing and sheet-metal combined	10,195	7,848	1.8	77.0	26,967	100.0
Marble and tiling	256,386	11,200	.5	4.4	404,877	100.0	<i>Structural steel³</i>						
All classes	15,649,045	2,277,608	100.0	14.6	36,471,884	88.9	All classes	15,649,045	2,277,608	100.0	14.6	36,471,884	88.9
General contractors	\$12,155,007	1,477,608	64.9	12.2	\$30,340,229	87.1	General contractors	\$12,155,007	1,477,608	64.9	12.2	\$30,340,229	87.1
Building	3,994,943	401,079	17.6	10.0	9,293,926	78.1	Building	3,994,943	401,079	17.6	10.0	9,293,926	78.1
Building not specialized	3,712,043	396,806	17.4	10.7	8,537,010	78.5	Building not specialized	3,712,043	396,806	17.4	10.7	8,537,010	78.5
Commercial building only	118,971	2,500	.1	2.1	310,296	76.8	Commercial building only	118,971	2,500	.1	2.1	310,296	76.8
Residential building only	163,929	1,773	.1	1.1	446,620	73.2	Residential building only	163,929	1,773	.1	1.1	446,620	73.2

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]

Table with multiple columns: KIND OF MATERIAL AND CLASSIFICATION OF ESTABLISHMENTS, COST OF DESIGNATED MATERIAL (Amount, Per cent of Total cost, Cost of all distributed materials), Value of construction business, Indicated per cent of all business done by own force, and similar columns for a second set of materials. Rows include categories like Heating and ventilating equipment, Plumbing and gas fitting equipment, Electrical appliances and supplies, Elevators, dumb-waiters, and equipment, and Pipe: Drain tile, vitrified, concrete, segment tile, corrugated.

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]

KIND OF MATERIAL AND CLASSIFICATION OF ESTABLISHMENTS	COST OF DESIGNATED MATERIAL				Value of construction business	Indicated per cent of all business done by own force ¹	KIND OF MATERIAL AND CLASSIFICATION OF ESTABLISHMENTS	COST OF DESIGNATED MATERIAL				Value of construction business	Indicated per cent of all business done by own force ¹
	Cost of all materials distributed by kind	Amount	Per cent of—					Cost of all materials distributed by kind	Amount	Per cent of—			
			Total cost	Cost of all distributed materials						Total cost	Cost of all distributed materials		
OMAHA—Continued						OMAHA—Continued							
<i>Cut stone, granite and marble</i>						<i>Paints, varnishes, glass</i>							
All classes.....	\$8,885,158	\$283,506	100.0	3.2	\$21,015,041	88.4	All classes.....	\$8,885,158	\$112,924	100.0	1.3	\$21,015,041	88.4
General contractors.....	\$ 5,807,005	54,380	19.2	.9	\$15,071,177	85.4	General contractors.....	\$ 5,807,005	65,004	57.6	1.1	\$15,071,177	85.4
Building.....	\$ 1,305,840	104,471	8.1	8.0	\$ 3,540,115	71.5	Building.....	\$ 1,305,840	60,160	53.3	4.6	\$ 3,540,115	71.5
Building not specialized.....	\$ 1,167,573	93,659	7.2	8.0	\$ 3,115,970	72.7	Building not specialized.....	\$ 1,167,573	58,000	51.4	5.0	\$ 3,115,970	72.7
Commercial building only.....	\$ 86,750	10,500	.8	12.1	\$ 251,296	76.6	Commercial building only.....	\$ 86,750	1,700	1.5	2.0	\$ 251,296	76.6
Residential building only.....	\$ 51,517	312	(⁶)	.0	\$ 172,849	48.3	Residential building only.....	\$ 51,517	400	1.4	.9	\$ 172,849	48.3
Highway.....	\$ 2,125,633	857,221	66.2	0.3	\$ 5,172,387	87.6	Highway.....	\$ 2,125,633	1,700	1.6	.1	\$ 5,172,387	87.6
Bridge and culvert.....	\$ 851,232	20,430	1.0	2.4	\$ 1,770,870	98.3	Bridge and culvert.....	\$ 851,232	3,084	2.7	.4	\$ 1,770,870	98.3
Grading.....	\$ 496,500	80,000	6.2	16.1	\$ 2,700,000	88.3	Subcontractors.....	\$ 3,077,553	47,920	42.4	1.0	\$ 5,344,404	97.3
Street paving.....	\$ 399,301	198,760	15.4	49.8	\$ 1,233,266	98.0	Carpentering and wood-flooring.....	\$ 3,429	1,029	9.0	30.0	\$ 28,644	100.0
Dam and reservoir.....	\$ 15,858	3,507	.3	22.1	\$ 145,000	42.4	Painting and decorating.....	\$ 43,801	43,801	39.9	100.0	\$ 215,074	97.2
Subcontractors.....	\$ 3,077,553	29,735	2.3	1.0	\$ 5,344,404	97.3	Roofing and sheet-metal work.....	\$ 287,781	3,000	2.7	1.0	\$ 680,701	99.7
Concreting.....	\$ 39,604	18,535	1.4	46.7	\$ 73,654	100.0	Sheet-metal work.....	\$ 39,970	3,000	2.7	7.5	\$ 117,869	99.1
Marble and tiling.....	\$ 256,386	11,200	.9	4.4	\$ 404,877	100.0	<i>Roofing and sheet metal</i>						
<i>Cement²</i>						<i>Roofing and sheet metal</i>							
All classes.....	\$ 8,885,158	\$ 1,204,124	100.0	14.0	\$ 21,015,041	88.4	All classes.....	\$ 8,885,158	\$ 292,555	100.0	3.3	\$ 21,015,041	88.4
General contractors.....	\$ 5,807,005	\$ 1,204,389	67.7	21.8	\$ 15,071,177	85.4	General contractors.....	\$ 5,807,005	\$ 16,374	5.6	.3	\$ 15,071,177	85.4
Building.....	\$ 1,305,840	\$ 104,471	8.1	8.0	\$ 3,540,115	71.5	Building.....	\$ 1,305,840	\$ 14,024	4.8	1.1	\$ 3,540,115	71.5
Building not specialized.....	\$ 1,167,573	\$ 93,659	7.2	8.0	\$ 3,115,970	72.7	Building not specialized.....	\$ 1,167,573	\$ 12,024	4.1	1.0	\$ 3,115,970	72.7
Commercial building only.....	\$ 86,750	\$ 10,500	.8	12.1	\$ 251,296	76.6	Commercial building only.....	\$ 86,750	\$ 2,000	.7	2.3	\$ 251,296	76.6
Residential building only.....	\$ 51,517	\$ 312	(⁶)	.0	\$ 172,849	48.3	Bridge and culvert.....	\$ 851,232	\$ 2,360	.8	.2	\$ 1,770,870	98.3
Highway.....	\$ 2,125,633	\$ 857,221	66.2	0.3	\$ 5,172,387	87.6	Subcontractors.....	\$ 3,077,553	\$ 276,181	94.4	9.0	\$ 5,344,404	97.3
Bridge and culvert.....	\$ 851,232	\$ 20,430	1.0	2.4	\$ 1,770,870	98.3	Heating and plumbing.....	\$ 612,970	\$ 6,000	2.1	1.0	\$ 1,211,880	94.4
Grading.....	\$ 496,500	\$ 80,000	6.2	16.1	\$ 2,700,000	88.3	Heating and piping.....	\$ 102,485	\$ 6,000	2.1	5.9	\$ 190,927	100.0
Street paving.....	\$ 399,301	\$ 198,760	15.4	49.8	\$ 1,233,266	98.0	Roofing and sheet-metal work.....	\$ 287,781	\$ 270,181	92.4	93.9	\$ 680,701	99.7
Dam and reservoir.....	\$ 15,858	\$ 3,507	.3	22.1	\$ 145,000	42.4	Roofing.....	\$ 247,805	\$ 240,305	82.1	97.0	\$ 562,832	100.0
Subcontractors.....	\$ 3,077,553	\$ 29,735	2.3	1.0	\$ 5,344,404	97.3	Sheet-metal work.....	\$ 39,970	\$ 29,876	10.2	74.7	\$ 117,869	99.1
Concreting.....	\$ 39,604	\$ 18,535	1.4	46.7	\$ 73,654	100.0	<i>Heating and ventilating equipment</i>						
Marble and tiling.....	\$ 256,386	\$ 11,200	.9	4.4	\$ 404,877	100.0	All classes.....	\$ 8,885,158	\$ 205,753	100.0	3.0	\$ 21,015,041	88.4
<i>Structural steel³</i>						<i>Heating and ventilating equipment</i>							
All classes.....	\$ 8,885,158	\$ 1,807,617	100.0	20.3	\$ 21,015,041	88.4	General contractors.....	\$ 5,807,005	\$ 3,280	1.2	.1	\$ 15,071,177	85.4
General contractors.....	\$ 5,807,005	\$ 1,007,617	55.7	17.3	\$ 15,071,177	85.4	Building.....	\$ 1,305,840	\$ 3,280	1.2	.3	\$ 3,540,115	71.5
Building.....	\$ 1,305,840	\$ 90,321	5.0	6.9	\$ 3,540,115	71.5	Building not specialized.....	\$ 1,167,573	\$ 1,080	.6	.1	\$ 3,115,970	72.7
Building not specialized.....	\$ 1,167,573	\$ 86,668	4.8	7.4	\$ 3,115,970	72.7	Commercial building only.....	\$ 86,750	\$ 1,600	.6	1.8	\$ 251,296	76.6
Commercial building only.....	\$ 86,750	\$ 2,500	.1	2.9	\$ 251,296	76.6	Residential building only.....	\$ 51,517	\$ 1,153	.1	2.2	\$ 172,849	48.3
Residential building only.....	\$ 51,517	\$ 1,153	.1	2.2	\$ 172,849	48.3	Highway.....	\$ 2,125,633	\$ 190,726	10.6	9.0	\$ 5,172,387	87.6
Highway.....	\$ 2,125,633	\$ 190,726	10.6	9.0	\$ 5,172,387	87.6	Bridge and culvert.....	\$ 851,232	\$ 604,770	30.8	78.1	\$ 1,770,870	98.3
Bridge and culvert.....	\$ 851,232	\$ 20,430	1.0	2.4	\$ 1,770,870	98.3	Grading.....	\$ 496,500	\$ 80,000	3.3	12.1	\$ 2,700,000	88.3
Grading.....	\$ 496,500	\$ 80,000	6.2	16.1	\$ 2,700,000	88.3	Street paving.....	\$ 399,301	\$ 1,800	.1	.5	\$ 1,233,266	98.0
Street paving.....	\$ 399,301	\$ 1,800	.1	.5	\$ 1,233,266	98.0	Subcontractors.....	\$ 3,077,553	\$ 800,000	44.3	26.0	\$ 5,344,404	97.3
Dam and reservoir.....	\$ 15,858	\$ 3,507	.3	22.1	\$ 145,000	42.4	Steel erection.....	\$ 900,000	\$ 800,000	44.3	88.9	\$ 1,213,000	100.0
Subcontractors.....	\$ 3,077,553	\$ 29,735	2.3	1.0	\$ 5,344,404	97.3	<i>Reinforcing steel</i>						
Concreting.....	\$ 39,604	\$ 18,535	1.4	46.7	\$ 73,654	100.0	All classes.....	\$ 8,885,158	\$ 323,384	100.0	3.6	\$ 21,015,041	88.4
Marble and tiling.....	\$ 256,386	\$ 11,200	.9	4.4	\$ 404,877	100.0	General contractors.....	\$ 5,807,005	\$ 243,384	75.3	4.2	\$ 15,071,177	85.4
<i>Reinforcing steel</i>						<i>Reinforcing steel</i>							
All classes.....	\$ 8,885,158	\$ 323,384	100.0	3.6	\$ 21,015,041	88.4	Building.....	\$ 1,305,840	\$ 95,083	29.4	7.3	\$ 3,540,115	71.5
General contractors.....	\$ 5,807,005	\$ 1,007,617	55.7	17.3	\$ 15,071,177	85.4	Building not specialized.....	\$ 1,167,573	\$ 92,083	28.5	7.9	\$ 3,115,970	72.7
Building.....	\$ 1,305,840	\$ 90,321	5.0	6.9	\$ 3,540,115	71.5	Commercial building only.....	\$ 86,750	\$ 3,000	.9	3.5	\$ 251,296	76.6
Building not specialized.....	\$ 1,167,573	\$ 86,668	4.8	7.4	\$ 3,115,970	72.7	Highway.....	\$ 2,125,633	\$ 89,199	27.6	4.2	\$ 5,172,387	87.6
Commercial building only.....	\$ 86,750	\$ 2,500	.1	2.9	\$ 251,296	76.6	Bridge and culvert.....	\$ 851,232	\$ 21,750	6.7	2.0	\$ 1,770,870	98.3
Residential building only.....	\$ 51,517	\$ 1,153	.1	2.2	\$ 172,849	48.3	Grading.....	\$ 496,500	\$ 20,000	6.2	4.0	\$ 2,700,000	88.3
Highway.....	\$ 2,125,633	\$ 190,726	10.6	9.0	\$ 5,172,387	87.6	Street paving.....	\$ 399,301	\$ 13,772	4.3	3.4	\$ 1,233,266	98.0
Bridge and culvert.....	\$ 851,232	\$ 20,430	1.0	2.4	\$ 1,770,870	98.3	Dam and reservoir.....	\$ 15,858	\$ 3,580	1.1	22.6	\$ 145,000	42.4
Grading.....	\$ 496,500	\$ 80,000	6.2	16.1	\$ 2,700,000	88.3	Subcontractors.....	\$ 3,077,553	\$ 80,000	24.7	2.6	\$ 5,344,404	97.3
Street paving.....	\$ 399,301	\$ 1,800	.1	.5	\$ 1,233,266	98.0	Steel erection.....	\$ 900,000	\$ 80,000	24.7	8.9	\$ 1,213,000	100.0
Dam and reservoir.....	\$ 15,858	\$ 3,507	.3	22.1	\$ 145,000	42.4	<i>Lumber, rough and finished</i>						
Subcontractors.....	\$ 3,077,553	\$ 29,735	2.3	1.0	\$ 5,344,404	97.3	All classes.....	\$ 8,885,158	\$ 351,427	100.0	4.0	\$ 21,015,041	88.4
Concreting.....	\$ 39,604	\$ 18,535	1.4	46.7	\$ 73,654	100.0	General contractors.....	\$ 5,807,005	\$ 349,212	99.4	6.0	\$ 15,071,177	85.4
Marble and tiling.....	\$ 256,386	\$ 11,200	.9	4.4	\$ 404,877	100.0	Building.....	\$ 1,305,840	\$ 112,329	32.0	8.6	\$ 3,540,115	71.5
<i>Reinforcing steel</i>						<i>Reinforcing steel</i>							
All classes.....	\$ 8,885,158	\$ 323,384	100.0	3.6	\$ 21,015,041	88.4	Building not specialized.....	\$ 1,167,573	\$ 81,467	23.2	7.0	\$ 3,115,970	72.7
General contractors.....	\$ 5,807,005	\$ 1,007,617	55.7	17.3	\$ 15,071,177	85.4	Commercial building only.....	\$ 86,750	\$ 17,200	4.9	19.8	\$ 251,296	76.6
Building.....	\$ 1,305,840	\$ 90,321	5.0	6.9	\$ 3,540,115	71.5	Residential building only.....	\$ 51,517	\$ 13,662	3.9	26.5	\$ 172,849	48.3
Building not specialized.....	\$ 1,167,573	\$ 86,668	4.8	7.4	\$ 3,115,970	72.7	Highway.....	\$ 2,125,633	\$ 122,588	34.9	5.8	\$ 5,172,387	87.6
Commercial building only.....	\$ 86,750	\$ 2,500	.1	2.9	\$ 251,296	76.6	Bridge and culvert.....	\$ 851,232	\$ 77,643	22.1	9.1	\$ 1,770,870	98.3
Residential building only.....	\$ 51,517	\$ 1,153	.1	2.2	\$ 172,849	48.3	Grading.....	\$ 496,500	\$ 30,000	8.5	6.0	\$ 2,700,000	88.3
Highway.....	\$ 2,125,633	\$ 190,726	10.6	9.0	\$ 5,172,387	87.6	Street paving.....	\$ 399,301	\$ 3,929	1.1	1.0	\$ 1,233,266	98.0
Bridge and culvert.....	\$ 851,232	\$ 20,430	1.0	2.4	\$ 1,770,870	98.3	Dam and reservoir.....	\$ 15,858	\$ 2,723	.8	17.2	\$ 145,000	42.4
Grading.....	\$ 496,500	\$ 80,000	6.2	16.1	\$ 2,700,000	88.3	Subcontractors.....	\$ 3,077,553	\$ 2,215	.6	.1	\$ 5,344,404	97.3
Street paving.....	\$ 399,301	\$ 1,800	.1	.5	\$ 1,233,266	98.0	Carpentering and wood-flooring.....	\$ 3,429	\$ 2,215	.6	64.6	\$ 28,644	100.0
Dam and reservoir.....	\$ 15,858	\$ 3,507	.3	22.1	\$ 145,000	42.4	<i>Electrical appliances and supplies</i>						
Subcontractors.....	\$ 3,077,553	\$ 29,735	2.3	1.0	\$ 5,344,404	97.3	All classes.....	\$ 8,885,158	\$ 184,656	100.0	2.1	\$ 21,015,041	88.4
Concreting.....	\$ 39,604	\$ 18,535	1.4	46.7	\$ 73,654	100.0	General contractors.....	\$ 5,807,005	\$ 2,080	1.1	(⁶)	\$ 15,071,177	85.4
Marble and tiling.....	\$ 256,386	\$ 11,200	.9	4.4	\$ 404,877	100.0	Building.....	\$ 1,305,840	\$ 2,080	1.1	.2	\$ 3,540,115	71.5
<i>Reinforcing steel</i>						<i>Reinforcing steel</i>							
All classes.....	\$ 8,885,158	\$ 323,38											

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]

KIND OF MATERIAL AND CLASSIFICATION OF ESTABLISHMENTS	COST OF DESIGNATED MATERIAL				Value of construction business	Indicated per cent of all business done by own force ¹	KIND OF MATERIAL AND CLASSIFICATION OF ESTABLISHMENTS	COST OF DESIGNATED MATERIAL				Value of construction business	Indicated per cent of all business done by own force ¹		
	Cost of all materials distributed by kind	Amount	Per cent of—					Cost of all distributed materials	Cost of all materials distributed by kind	Amount	Per cent of—			Cost of all distributed materials	
			Total cost	Cost of all distributed materials							Total cost				Cost of all distributed materials
OMAHA—Continued						OMAHA—Continued									
<i>Elevators, dumb-waiters, and equipment²</i>						<i>Pipe: Drain tile, vitrified, concrete, segment tile, corrugated—Continued</i>									
All classes.....	\$8,885,158	\$683,386	100.0	7.7	\$21,015,641	88.4	Subcontractors.....	\$3,077,553	\$500	0.2	(⁶)	\$5,344,464	97.3		
General contractors.....	\$5,807,005	9,700	1.4	.2	15,671,177	86.4	Heating and plumbing.....	\$612,970	500	.2	0.1	\$1,211,860	94.4		
Building.....	\$1,305,840	9,700	1.4	.7	\$3,540,115	71.5	Heating and piping.....	102,485	500	.2	.5	190,927	100.0		
Building not specialized.....	1,167,573	9,500	1.4	.8	3,115,970	72.7	<i>Pipe: Cast-iron, sheet and tube steel, etc.</i>								
Commercial building only.....	86,750	200	(⁵)	.2	251,296	76.6	All classes.....	8,885,158	178,983	100.0	2.0	21,015,641	88.4		
Subcontractors.....	\$3,077,553	673,686	98.6	21.9	\$5,344,464	97.3	General contractors.....	\$5,807,005	177,483	69.2	3.1	\$15,671,177	85.4		
Elevator construction.....	673,686	673,686	98.6	100.0	901,465	100.0	Highway.....	2,125,633	10,000	5.6	.5	\$5,172,387	87.0		
<i>Pipe: Drain tile, vitrified, concrete, segment tile, corrugated</i>						<i>Pipe: Cast-iron, sheet and tube steel, etc.</i>									
All classes.....	8,885,158	317,797	100.0	3.6	21,015,641	88.4	Bridge and culvert.....	851,232	4,630	2.6	.5	\$1,770,870	98.3		
General contractors.....	\$5,807,005	317,297	99.8	5.5	\$15,671,177	86.4	Street paving.....	399,301	4,632	2.6	1.2	\$1,233,266	98.0		
Highway.....	2,125,633	10,868	3.4	.5	5,172,387	87.6	Sewer, gas, water, conduit.....	216,241	124,161	69.4	57.4	292,049	100.0		
Grading.....	496,500	2,000	.6	.4	2,700,000	88.3	Water works.....	397,000	34,000	19.0	8.0	817,490	100.0		
Street paving.....	399,301	4,361	1.4	1.1	1,233,266	98.0	<i>Subcontractors.....</i>								
Sewer, gas, water, conduit.....	216,241	72,080	22.7	33.3	292,049	100.0	Electrical.....	\$3,077,553	1,500	.8	(⁶)	\$5,344,464	97.3		
Water works.....	397,000	228,000	71.7	57.4	817,490	100.0		184,576	1,500	.8	.8	882,640	100.0		

¹ Based upon the difference between the total value of all construction business reported and the value of subcontract work let.
² See footnote 2 of Table 9 on p. 730.
³ Includes cost of materials reported by establishments which did not include designated materials in their distributed lists.
⁴ Includes construction work reported by establishments which did not include the designated material in their distributed lists.
⁵ Less than one-tenth of 1 per cent.
⁶ Includes cost of materials reported by subcontracting establishments which did not include the designated material in their distributed lists.
⁷ 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. 735, the third on p. 736]

CLASSIFICATION OF ESTABLISHMENTS	Total cost of all materials ¹	COST OF ALL MATERIALS DISTRIBUTED BY KIND		Sand, gravel, crushed stone, slag, cinders, etc.	Brick (face, common, fire, paving, etc.)	Tile (fire-proofing)	Tile, facing, terra cotta, floor, and wall	Concrete and cinder block	Cut stone, granite and marble	Riprap, rubble, etc.	Cement	Lime
		Amount	Percent of total									
NEBRASKA	\$13,630,503	\$15,849,045	84.0	\$2,656,758	\$573,821	\$129,868	\$175,618	\$68,115	\$363,991	\$181,977	\$2,329,200	\$44,399
General contractors.....	14,404,266	12,155,007	84.4	2,657,342	571,821	129,868	103,440	59,717	154,775	181,977	2,266,465	43,399
Building.....	5,579,873	3,994,943	71.6	215,681	548,581	108,196	103,440	48,823	154,775		316,680	43,234
Building not specialized.....	5,050,304	3,712,043	73.5	200,091	524,245	103,896	98,302	46,333	153,335		301,414	42,488
Commercial building only.....	228,940	118,071	52.0	13,610	15,000	4,000	600		1,400		13,866	400
Residential building only.....	300,629	163,920	54.5	1,080	9,338	300	4,638	2,490	40		1,400	346
Highway.....	4,321,246	4,335,962	80.9	1,769,183	20,000	21,672		7,147			1,672,890	
Bridge and culvert.....	1,231,721	1,147,843	93.2	91,706							73,415	
Grading.....	500,500	500,500	100.0	304,000						1,500	80,000	
Street paving.....	422,243	399,301	94.6	103,685	88			3,747			198,780	
Sewer, gas, water, conduit.....	315,522	315,522	100.0	26,121	2,932						14,127	100
Dam and reservoir.....	88,083	15,858	18.0	636							3,567	
Waterworks.....	397,000	397,000	100.0	135,000								
Dredging, river, harbor, etc.....	994,006	994,006	100.0							180,477		
Refuse disposal plant.....	54,072	54,072	100.0	11,330	220						7,088	65
Subcontractors.....	\$4,226,237	3,494,038	82.7	29,416	2,000		72,178	8,398	229,216		62,735	1,000
Carpentering and woodflooring.....	3,429	3,429	100.0									
Concreting.....	92,164	80,164	87.0	13,554	2,000			8,398			51,535	
Electrical.....	199,676	199,676	100.0									
Elevator construction.....	673,686	673,686	100.0									
Heating and plumbing.....	1,427,386	861,857	60.4	700								400
Heating and piping.....	255,485	102,485	40.1	700								400
Pipe covering.....	60,000	60,000	100.0									
Plumbing.....	688,663	511,183	80.8									
Plumbing and heating combined.....	523,248	188,189	36.0									
Painting and decorating.....	43,891	43,891	100.0									
Plastering and lathing.....	7,900	7,900	100.0	3,000								400
Roofing and sheet-metal work.....	430,879	399,879	92.8	2,000								
Roofing.....	277,117	277,117	100.0									
Sheet-metal work.....	143,567	112,567	78.4									
Roofing and sheet-metal combined.....	10,195	10,195	100.0									
Steel erection.....	900,000	900,000	100.0									
Stone work.....	67,270	67,270	100.0						67,270			
Marble and tiling.....	301,386	256,386	85.1	9,862			72,178		161,940		11,200	200

See footnotes at end of table.

CONSTRUCTION—NEBRASKA

735

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

CLASSIFICATION OF ESTABLISHMENTS	Total cost of all materials ¹	COST OF ALL MATERIALS DISTRIBUTED BY KIND		Sand, gravel, crushed stone, slag, cinders, etc.	Brick (face, common, fire, paving, etc.	Tile (fire-proofing)	Tile, facing, terra cotta, floor, and wall	Concrete and cinder block	Cut stone, granite and marble	Riprap, rubble, etc.	Cement	Lime
		Amount	Percent of total									
OMAHA	\$9,417,534	\$8,885,188	94.3	\$1,461,071	\$189,293	\$57,980	\$130,989	\$48,365	\$283,596	\$1,500	\$1,294,124	\$17,413
General contractors	6,042,920	5,807,605	96.1	1,436,655	189,293	57,980	58,811	39,967	54,380	1,500	1,264,389	16,413
Building	1,541,155	1,305,840	84.7	85,238	189,293	57,980	58,811	29,073	54,380		104,471	16,413
Building not specialized	1,334,573	1,167,573	87.5	71,828	173,453	53,980	53,073	28,277	52,980		93,659	15,953
Commercial building only	183,365	86,760	47.3	13,000	15,000	4,000			1,400		10,500	400
Residential building only	73,217	51,517	70.4	410							312	60
Highway	2,125,633	2,125,633	100.0	787,886				796				
Bridge and culvert	851,232	851,232	100.0	54,210				7,147				857,221
Grading	496,500	496,500	100.0	300,000							1,500	20,480
Street paving	399,301	399,301	100.0	103,685	58			3,747				80,000
Sewer, gas, water, conduit	216,241	216,241	100.0	20,000								198,760
Dam and reservoir	15,858	15,858	100.0	638								3,507
Waterworks	397,000	397,000	100.0	135,000								
Subcontractors	3,374,614	3,077,583	91.2	24,416			72,178	8,398	229,216		20,735	1,000
Carpentering and woodflooring	3,429	3,429	100.0									
Concreting	39,664	39,664	100.0	8,854				8,398			18,535	
Electrical	184,576	184,576	100.0									
Elevator construction	673,686	673,686	100.0									
Heating and plumbing	804,031	612,970	76.2	700								400
Heating and piping	102,485	102,485	100.0	700								400
Pipe covering	60,000	60,000	100.0									
Plumbing	297,221	232,221	78.1									
Plumbing and heating combined	344,325	168,264	48.9									
Painting and decorating	43,891	43,891	100.0									
Plastering and lathing	7,900	7,900	100.0	3,000								400
Roofing and sheet-metal work	318,781	287,781	90.3	2,000								
Roofing	247,805	247,805	100.0	2,000								
Sheet-metal work	70,976	39,976	56.3									
Steel erection	900,000	900,000	100.0									
Stone work	67,270	67,270	100.0						67,270			
Marble and tiling	281,386	256,386	91.1	9,862			72,178		161,946		11,200	200

CLASSIFICATION OF ESTABLISHMENTS	Plaster, etc.	Structural steel	Reinforcing steel	Cast iron, miscellaneous, excluding pipe	Metal doors, windows and trim	Metal and wire lath and furring	Ornamental metal work	Lumber, rough and finished	Laths, shingles and shakes	Mill-work	Composition board	Water-proofing materials	Hardware, rough and finished	Paints, varnishes, and glass
General contractors	65,764	1,477,608	542,024	26,189	60,507	85,038	58,189	1,009,366	15,402	484,561	30,870	9,524	177,074	100,977
Building	65,764	401,079	205,494	13,270	60,507	85,038	58,160	402,674	15,402	484,561	28,373	8,091	135,550	92,537
Building not specialized	61,819	396,806	202,089	12,270	59,752	83,958	57,368	378,892	11,522	438,689	26,343	7,831	125,995	89,347
Commercial building only	1,200	2,500	3,075	1,000	300	500	100	28,240	500	3,750	1,000	200	1,450	1,730
Residential building only	2,745	1,773	330		455	680	701	58,042	3,380	42,122	1,030	60	3,105	1,480
Highway		219,934	245,383	5,000				180,603					36,189	3,059
Bridge and culvert		794,052	40,802	1,124				97,168			2,497	32	1,536	5,381
Grading		60,000	20,000					30,000					3,000	
Street paving		1,800	13,772					3,929				1,401		
Sewer, gas, water, conduit			743	5,360	6,795			2,354					799	
Dam and reservoir				3,530				2,723						
Dredging, river, harbor, etc								225,858						
Refuse disposal plant			2,233					4,157						
Subcontractors	4,000	800,000	80,500	20,000				2,215			5,500	1,500	1,385	47,920
Carpentering and woodflooring								2,215					185	1,029
Concreting			500											43,891
Painting and decorating														
Plastering and lathing	3,000											1,500		
Roofing and sheet-metal work											5,500		1,200	3,000
Roofing											5,500		1,200	3,000
Sheet-metal work														
Steel erection		800,000	80,000	20,000										
Marble and tiling	1,000													
OMAHA	28,081	\$1,807,617	\$323,384	\$30,124	\$31,300	\$41,266	\$55,735	\$51,427	\$80	\$2,145	\$20,179	\$4,723	\$41,880	\$112,924
General contractors	24,031	1,007,617	243,384	10,124	31,300	41,266	55,735	349,212	980	92,145	14,670	3,223	30,995	65,004
Building	24,031	90,321	95,083	9,000	31,300	41,266	55,735	112,329	980	92,145	12,182	1,822	28,363	60,160
Building not specialized	22,999	86,668	92,033	8,000	30,925	40,765	55,000	81,497		95,030	11,182	1,622	24,772	58,000
Commercial building only	1,200	2,500	3,000	1,000	300	500	100	17,200	500	3,500	1,000	200	1,100	1,700
Residential building only	182	1,153			75		635	13,662	480	23,615			2,491	460
Highway		190,726	89,169					122,688			2,497		8,132	1,700
Bridge and culvert		664,770	21,750	1,124				77,643					3,000	3,084
Grading		60,000	20,000					30,000						
Street paving		1,800	13,772					3,929				1,401		
Dam and reservoir			3,530					2,723						
Subcontractors	4,000	800,000	80,000	20,000				2,215			5,500	1,500	1,385	47,920
Carpentering and woodflooring								2,215					185	1,029
Painting and decorating														43,891
Plastering and lathing	3,000											1,500		
Roofing and sheet-metal work											5,500		1,200	3,000
Roofing											5,500		1,200	3,000
Sheet-metal work														
Steel erection		800,000	80,000	20,000										
Marble and tiling	1,000													

See footnotes at end of table.

CONSTRUCTION—NEBRASKA

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, awnings, etc.	Heating and ventilating equipment	Plumbing and gas fitting equipment	Electrical appliances and supplies	Elevators, dumb-waiters, etc.	Pipe: Drain tile, vitrified, concrete, etc.	Pipe: Cast iron, sheet and tube, steel, etc.	Wire cable, guards, and fencing	Bituminous paving materials	Wood piling and timber	Machinery	Miscellaneous ¹
NEBRASKA	\$437,421	\$74,937	\$8,675	\$361,838	\$502,912	\$215,140	\$709,117	\$454,386	\$268,514	\$135,620	\$143,738	\$476,264	\$25,000	\$170,043
General contractors.....	50,489	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.....	48,139	74,937	8,675	14,211	17,998	10,564	35,431	500	100	1,280	30		25,000	102,159
Building not specialized.....	42,839	69,791	7,285	7,061	6,418	4,364	22,981	500	50	1,280	30		25,000	102,159
Commercial building only.....	5,000	300	550	1,600	2,000	2,900	12,200							
Residential building only.....	300	4,840	840	5,550	9,580	3,300	250							
Highway.....					965			64,365	46,855	9,158	80,203			50,959
Bridge and culvert.....	2,350							14,451	4,630	11,826	170	3,200		
Grading.....								2,000						
Street paving.....					1,797			4,361	4,692		59,458			1,811
Sewer, gas, water, conduit.....								121,494	133,437					1,260
Dam and reservoir.....										5,412				
Waterworks.....								228,000	34,000					6,378
Dredging, river, harbor, etc.....										107,729		473,064		6,476
Refuse disposal plant.....								13,990	8,300	215				
Subcontractors.....	386,932			347,627	482,152	204,576	673,686	5,225	21,500		3,877			500
Concreting.....				500							3,877			
Electrical.....						197,576			1,500					
Elevator construction.....							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			500						
Pipe covering.....				60,000										
Plumbing.....	1,000			155,196	330,587			4,400	20,000					
Plumbing and heating combined.....				66,582	114,282	7,000		325						
Roofing and sheet-metal work.....	379,932			7,747										500
Roofing.....	269,617													
Sheet-metal work.....	102,467			5,400										500
Roofing and sheet-metal combined.....	7,848			2,347										
OMAHA	292,555	14,246	1,750	265,753	353,823	184,666	663,396	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	177,433	15,505	86,962			59,820
Building.....	14,024	14,246	1,750	3,280	3,229	2,080	9,700			194				7,050
Building not specialized.....	12,024	12,000	1,200	1,680	1,229	680	9,500			194				7,050
Commercial building only.....	2,000	300	550	1,600	2,000	1,400	200							
Residential building only.....		1,946												
Highway.....								10,856	10,000	9,158	27,504			50,959
Bridge and culvert.....	2,350								4,630	741				
Grading.....								2,000						
Street paving.....					1,797			4,361	4,692		59,458			1,811
Sewer, gas, water, conduit.....								72,080	124,161					
Dam and reservoir.....										5,412				
Waterworks.....								228,000	34,000					
Subcontractors.....	276,181			262,473	348,797	182,576	673,686	500	1,500		3,877			500
Concreting.....				500							3,877			
Electrical.....						182,576			1,500					
Elevator construction.....							673,686							
Heating and plumbing.....	6,000			256,573	348,797			500						
Heating and piping.....	6,000			57,602	37,283			500						
Pipe covering.....				60,000										
Plumbing.....				78,089	204,132									
Plumbing and heating combined.....				60,882	107,382									
Roofing and sheet-metal work.....	270,181			5,400										500
Roofing.....	240,305													
Sheet-metal work.....	29,876			5,400										500

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.

² See footnote 2 of Table 9 on p. 730.

³ 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.

CONSTRUCTION—NEBRASKA

737

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

TYPES OF WORK	NEBRASKA 1930 population, 1,377,963							OMAHA 1930 population, 214,006			REMAINDER OF STATE 1930 population, 1,163,967			
	Known contracting establishments				Volume of business reported			Total number active in 1929	Volume of business		Total number active in 1929	Volume of business		
	Total number	Inactive in 1929	Active in 1929		Number of reporting establishments	Per cent of active	Amount		Average per establishment	Number of reporting establishments		Amount	Number of reporting establishments	Amount
			Number	Per cent				Total number active in 1929			Number of reporting establishments				Amount
Total establishments canvassed (less than \$25,000).....	1,062	23	1,039					175			864			
Total establishments, type of work unknown.....	21		21		3	\$17,700	\$5,900				21	3	\$17,700	
Total general contractors classified.....	359	20	339	83.3	78	23.0	867,535	11,122	33	1	\$15,700	306	77	861,835
Building.....	314	15	299	29.4	69	23.1	780,442	11,311	26	1	15,700	273	68	764,742
Bridge and culvert.....	3		3	.3	2	66.7	8,915	4,458				3	2	8,915
Highway.....	32	5	27	2.7	5	18.5	63,412	12,682	4			23	5	63,412
Sewer, gas, water, conduit.....	7		7	.7	2	28.6	14,766	7,383	1			6	2	14,766
Street paving.....	1		1	.1								1		
Railroad.....	1		1	.1								1		
Dredging, dam.....	1		1	.1								1		
Total subcontractors classified.....	682	3	679	66.7	191	28.1	1,259,876	6,596	142	24	220,270	537	107	1,039,600
Carpentering.....	70		70	7.5	23	30.3	140,335	6,102	5	2	2,400	71	21	137,935
Concreting.....	45		45	4.4	11	24.4	36,450	3,314	2			43	11	36,450
Electrical.....	87	2	85	8.3	22	25.9	172,542	7,343	18	2	33,427	67	20	139,115
Excavating.....	10		10	1.0	2	20.0	4,000	2,000	1			9	2	4,000
Glass and glazing.....	4		4	.4	1	25.0	4,000	4,000	2	1	4,000	2		
Heating and ventilating.....	41		41	4.0	4	9.8	27,121	6,780	6			35	4	27,121
Marble and tiling.....	4		4	.3					2			1		
Masonry.....	40		40	3.9	7	17.5	56,478	8,068				40	7	56,478
Ornamental iron.....	17		17	1.7	4	23.5	42,582	10,646	13	2	25,800	4	2	16,782
Roofing and sheet metal.....	39		39	3.8	12	30.8	101,451	8,454	25	2	26,700	14	10	74,751
Plastering.....	28		28	2.8	11	39.3	64,179	5,834	4	2	6,000	24	9	58,179
Plumbing and heating.....	105		105	10.2	55	33.3	430,186	7,822	51	11	99,568	114	44	330,618
Wrecking.....	7		7	.7	1	14.3	2,000	2,000	3			4	1	2,000
Painting and decorating.....	109		109	10.7	38	34.9	178,552	4,699	7	2	22,381	102	36	166,171
Steel erection.....	4		4	.4					1			3		
Dredging.....	3		3	.3								3		
Stonework.....	1		1	.1								1		
Elevator.....	2		2	.2					2					

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

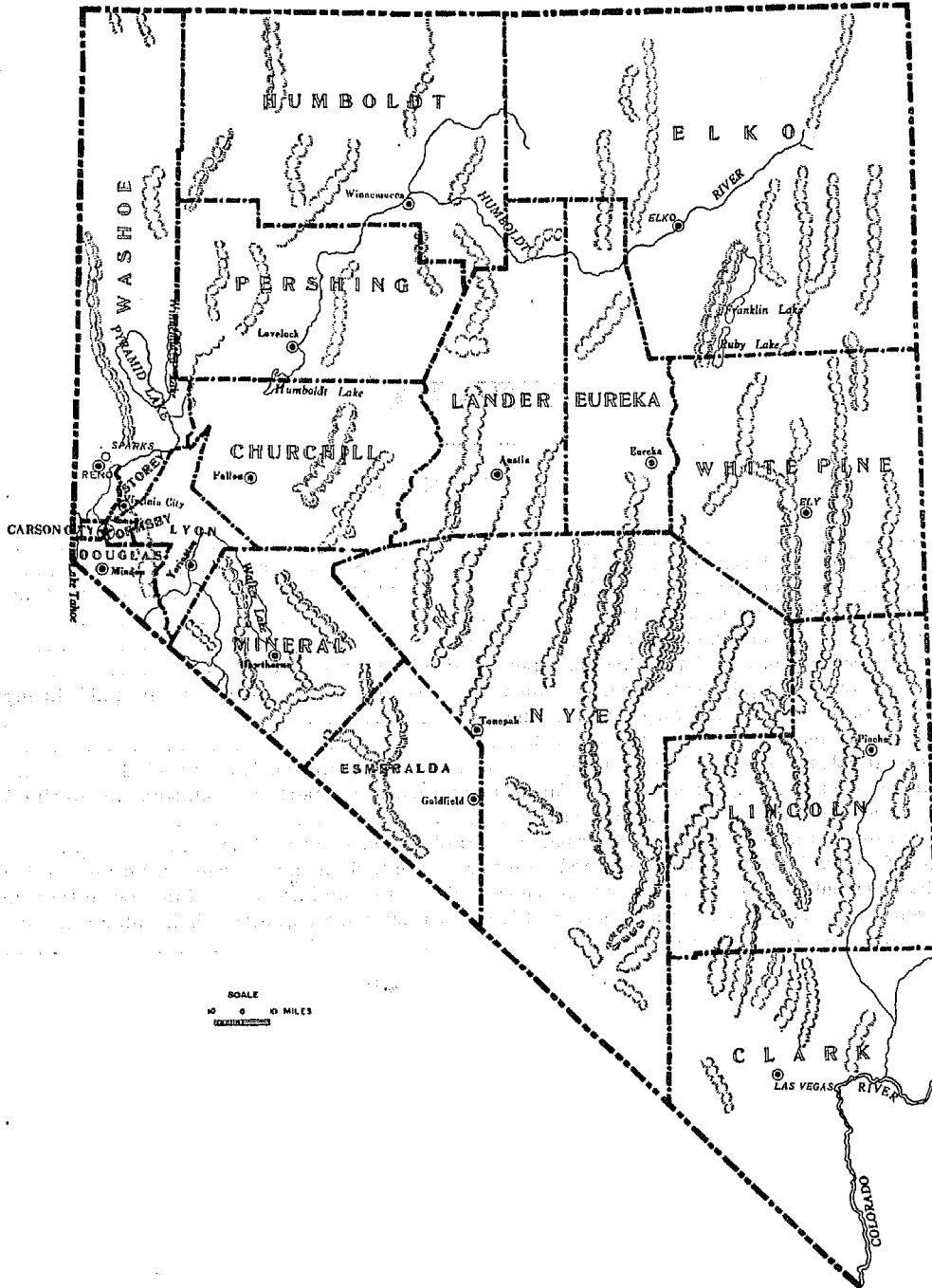
CLASSIFICATION	Total	Under \$2,500	\$2,500 to \$4,999	\$5,000 to \$7,499	\$7,500 to \$9,999	\$10,000 to \$12,499	\$12,500 to \$14,999	\$15,000 to \$17,499	\$17,500 to \$19,999	\$20,000 to \$22,499	\$22,500 to \$24,999
NEBRASKA											
Total general and subcontractors.....	272	72	35	45	28	27	12	26	8	15	4
General contractors.....	78	5	9	14	8	11	3	14	2	9	3
Subcontractors.....	191	68	26	30	20	16	9	12	6	6	1
Type of contracting unknown.....	3	1		1		1					

NEVADA

CONTENTS

	Page
MAP	740
TABLE 1.—Value of construction business during 1929, and principal items of expenditure.....	741
TABLE 2.—Construction business of reporting establishments during 1929, by class of ownership and by type of work.....	741
TABLE 3.—Construction business during 1929, by location.....	742
TABLE 4.—Construction business outside home State, by location.....	742
TABLE 5.—Number and salaries of proprietors, firm members, and salaried employees: 1929.....	742
TABLE 6.—Value of construction equipment, in comparison with construction business and wages paid during 1929.....	742
TABLE 7.—Wage earners, by months, and wages paid during 1929.....	743
TABLE 8.—Expenditures of reporting establishments: 1929.....	743
TABLE 9.—Cost of materials furnished and used by reporting establishments during 1929, by kind.....	743
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.....	744
TABLE 11.—Cost of materials furnished and used by reporting establishments during 1929.....	745
TABLE 12.—Number of, and volume of business reported by establishments doing a construction business of less than \$25,000 in 1929, percentage of total number of known establishments, and average volume per establishment.....	745
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.....	745

NEVADA



CONSTRUCTION—NEVADA

741

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

[Values expressed in thousands]

AREA, CLASSIFICATION OF ESTABLISHMENTS, AND SIZE OF BUSINESS GROUPS	Number of establishments	VALUE OF CONSTRUCTION BUSINESS			PRINCIPAL EXPENDITURES			AREA, CLASSIFICATION OF ESTABLISHMENTS, AND SIZE OF BUSINESS GROUPS	Number of establishments	VALUE OF CONSTRUCTION BUSINESS			PRINCIPAL EXPENDITURES		
		Total	Under general contract or directly for owner	Under sub-contract	Sub-contract work let	Wages paid	Cost of materials			Total	Under general contract or directly for owner	Under sub-contract	Sub-contract work let	Wages paid	Cost of materials
NEVADA	20	\$3, 639	\$3, 245	\$394	\$683	\$747	\$780	<i>Size of business groups—Continued</i>							
Counties:								General contractors—Contd.							
Churchill.....	3	2, 150	2, 041	109	446	382	256	\$500,000 to \$999,999.....	1	\$1, 570	\$1, 467	\$109	\$493	\$148	\$130
Washoe.....	12	1, 211	925	286	211	314	387	\$1,000,000 and over.....							
Other counties ¹	5	280	280	-----	26	51	148	Building contractors.....	10	637	637	-----	237	115	216
<i>Classification of establishments</i>								\$25,000 to \$49,999.....	2	73	73	-----	0	19	41
General contractors.....	16	3, 337	3, 228	109	683	671	647	\$50,000 to \$99,999.....	7	464	464	-----	159	82	161
Building.....	10	637	637	-----	237	115	216	\$100,000 to \$199,999.....	1	101	101	-----	72	14	14
Other classes ²	6	2, 700	2, 591	109	446	555	431	\$200,000 to \$499,999.....				-----	-----	-----	-----
Subcontractors ³	4	302	17	285	-----	77	143	\$500,000 to \$999,999.....				-----	-----	-----	-----
<i>Size of business groups</i>								\$1,000,000 and over.....				-----	-----	-----	-----
General contractors.....	16	3, 337	3, 228	109	683	671	647	Subcontractors.....	4	302	17	285	-----	77	143
\$25,000 to \$49,999.....	2	73	73	-----	6	10	41	\$25,000 to \$49,999.....	2	83	17	66	-----	23	44
\$50,000 to \$99,999.....	8	549	549	-----	159	93	186	\$50,000 to \$99,999.....	1	78	78	-----	28	31	
\$100,000 to \$199,999.....	3	394	394	-----	72	126	101	\$100,000 to \$199,999.....	1	142	142	-----	26	69	
\$200,000 to \$499,999.....	2	746	746	-----	13	289	180	\$200,000 to \$499,999.....				-----	-----	-----	
								\$500,000 to \$999,999.....				-----	-----	-----	-----
								\$1,000,000 and over.....				-----	-----	-----	-----

¹ 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.
² Includes highway; bridge and culvert; and street paving.
³ Includes electrical; heating and piping; masonry; and plumbing.

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

CLASS OF OWNERSHIP AND TYPE OF CONSTRUCTION WORK	CONSTRUCTION BUSINESS REPORTED BY—						CLASS OF OWNERSHIP AND TYPE OF CONSTRUCTION WORK	CONSTRUCTION BUSINESS REPORTED BY—						
	All classes of establishments		General contractors		Subcontractors			All classes of establishments		General contractors		Subcontractors		
	Number reporting	Value	Number reporting	Value	Number reporting	Value		Number reporting	Value	Number reporting	Value	Number reporting	Value	
NEVADA							NEVADA—Continued							
All construction business.....	20	\$3, 639, 124	16	\$3, 336, 888	4	\$302, 236	All business under general contract or directly for owners—Contd.							
Distribution not reported.....	2	149, 609	1	114, 647	1	34, 962	Building—Continued.							
Distributed by class of ownership:	18	3, 480, 515	15	3, 222, 241	3	267, 274	Distributed by class of building:	11	\$673, 210	11	\$673, 210	-----	-----	-----
Private.....	13	810, 988	10	552, 714	3	267, 274	Commercial.....	7	166, 538	7	166, 538	-----	-----	-----
Quasi public or community.....	2	-----	2	-----	-----	-----	Educational.....	2	65, 625	2	65, 625	-----	-----	-----
Public.....	3	2, 669, 527	3	2, 669, 527	-----	-----	Religious and memorial.....	2	-----	2	-----	-----	-----	-----
Distribution not reported.....	2	1, 605, 960	2	1, 605, 960	-----	-----	Hotel.....	1	-----	1	-----	-----	-----	-----
Distributed by class of public ownership:	6	1, 063, 567	6	1, 063, 567	-----	-----	Hospital and institutional.....	3	26, 186	3	26, 186	-----	-----	-----
Federal.....	2	-----	2	-----	-----	-----	Residential.....	10	347, 393	10	347, 393	-----	-----	-----
State.....	4	950, 591	4	950, 591	-----	-----	Social and recreational.....	3	27, 979	3	27, 979	-----	-----	-----
County or township.....	2	-----	2	-----	-----	-----	Air transport.....	3	-----	3	-----	-----	-----	-----
Municipal.....	2	112, 976	2	112, 976	-----	-----	Miscellaneous.....	1	39, 489	1	39, 489	-----	-----	-----
All business under general contract or directly for owners.....	17	3, 245, 426	16	(¹)	1	(¹)	Other classes ²	7	2, 554, 735	7	2, 554, 735	-----	-----	-----
Building.....	12	680, 691	11	(¹)	1	(¹)	All business under subcontract.....	5	393, 698	1	(¹)	4	(¹)	
Distribution not reported.....	1	17, 481	-----	-----	1	17, 481	Electrical.....	1	-----	-----	-----	-----	-----	
							Masonry.....	1	203, 988	-----	-----	-----	-----	
							Excavating.....	1	-----	1	(¹)	-----	-----	
							Heating and plumbing.....	1	189, 710	-----	-----	-----	-----	
							Heating and piping.....	2	-----	-----	-----	-----	-----	
							Plumbing.....	2	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.

CONSTRUCTION—NEVADA

TABLE 3.—CONSTRUCTION BUSINESS DURING 1929, BY LOCATION

CLASSIFICATION OF ESTABLISHMENTS	Es-tab-lish-ments re- port- ing	Total	In home city	In home State	Outside home State	CLASSIFICATION OF ESTAB- LISHMENTS	Es- tab- lish- ments re- port- ing	Total	In home city	In home State	Outside home State
General contractors.....	16	3,336,888	778,590	1,894,500	1,472,388	Other classes ¹	6	\$2,699,660	\$199,593	\$1,227,272	\$1,472,388
Building.....	10	637,228	578,907	637,228		Subcontractors ²	4	302,236	200,386	301,886	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

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

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

CLASSIFICATION OF ESTABLISHMENTS	Es- tab- lish- ments re- port- ing	PROPRIETORS AND FIRM MEMBERS			SALARIED EMPLOYEES									
		Re- ceiv- ing no sala- ries	Receiving salaries		All salaried employees		Officers and clerical staff		Superintendents, foremen, etc.		Number reported, by sex			Sex not re- ported
			Num- ber	Total annual salaries	Total number	Total annual salaries	Number	Total annual salaries	Number	Total annual salaries	Total	Male	Fe- male	
NEVADA.....	20	17	2	\$4,125	55	\$131,967	21	\$80,777	34	\$51,190	49	44	5	6
General contractors.....	16	14			48	117,749	14	66,559	34	51,100	42	40	2	6
Building.....	10	12			4	6,915	1	275	3	6,640	4	4		
Other classes ¹	6	2			44	110,834	13	66,284	31	44,550	38	36	2	6
Subcontractors ²	4	3	2	4,125	7	14,218	7	14,218			7	4	3	

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

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

CLASSIFICATION OF ESTABLISHMENTS AND PERCENTAGE OF EQUIPMENT OWNED	Estab- lish- ments re- port- ing	EQUIPMENT		Value of construction busi- ness re- ported	Wages paid	CLASSIFICATION OF ESTABLISHMENTS AND PERCENTAGE OF EQUIPMENT OWNED	Estab- lish- ments re- port- ing	EQUIPMENT		Value of construction busi- ness re- ported	Wages paid
		Pur- chased during the year	Inven- tory value at end of year					Pur- chased during the year	Inven- tory value at end of year		
Nevada.....	14	\$228,592	\$445,105	\$3,187,577	\$626,357	<i>Percentage of equipment owned—Continued</i>					
<i>Classification of establishments</i>						<i>All classes of equipment—Contd.</i>					
Building.....	8	5,403	21,703	461,994	88,208	26% to 50%.....					
Other classes ¹	6	223,189	423,402	2,725,583	538,149	51% to 75%.....					
<i>Percentage of equipment owned</i>						76% to 99%.....					
All classes of establishments.....	14	228,592	445,105	3,187,577	626,357	100%.....					
None.....						Not reported.....					
1% to 25%.....	1	200		54,000	12,000	1	\$62,804	\$138,625	\$1,575,960	\$142,960	
						12	165,588	306,480	1,557,617	471,388	

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

CONSTRUCTION—NEVADA

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

CLASSIFICATION OF ESTABLISHMENTS AND LENGTH OF WORKING WEEK	Estab-lish-ments reporting	NUMBER EMPLOYED ON 15TH DAY OF THE MONTH OR NEAREST REPRESENTATIVE DAY												Wages paid
		Janu-ary	Febru-ary	March	April	May	June	July	August	Sept-ember	Octo-ber	No- vember	Decem-ber	
NEVADA	18	126	125	158	298	357	360	330	291	253	273	189	162	\$488,412
<i>Classification of establishments</i>														
General contractors	14	105	106	132	248	309	314	294	240	196	231	152	129	381,802
Building	10	14	23	39	65	99	106	89	97	67	67	64	62	115,419
Other classes ¹	4	91	83	93	183	210	208	205	143	129	164	88	67	266,383
Subcontractors ²	4	21	19	26	50	48	46	36	51	57	42	37	33	76,610
<i>Length of working week</i>														
General contractors ³	14	105	106	132	248	309	314	294	240	196	231	152	129	381,802
40-hour, 5-day week	6	8	16	30	40	53	55	45	50	37	46	55	55	76,133
44-hour, 5½-day week	1				50	50	50	10	4	4	4	4	4	12,000
48-hour, 6-day week	7	97	90	102	158	209	209	239	180	155	181	93	70	293,669
Subcontractors ⁴	4	21	19	26	50	48	46	36	51	57	42	37	33	76,610
40-hour, 5-day week	3	19	17	24	48	45	43	33	48	54	33	33	28	64,866
44-hour, 5½-day week	1	2	2	2	2	3	3	3	3	3	4	4	5	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; 50-hour, 5-day week; all other 5-day week; 49½-hour, 5½-day week; 55-hour, 5½-day week; all other 5½-day week; 54-hour, 6-day week; 60-hour, 6-day week; all other 6-day week; all other not designated; and not reported.
⁴ See complete classification in the tabulation for general contractors above.

TABLE 8.—EXPENDITURES OF REPORTING ESTABLISHMENTS: 1929

CLASSIFICATION OF ESTABLISHMENTS	Estab-lish-ments reporting	Value of construction business reported	PRINCIPAL ITEMS OF EXPENDITURE			OTHER ITEMS OF EXPENDITURE							
			Subcontract work let	Wages paid	Cost of materials	Salaries		Rent for		Interest	Contract bond premiums	Compen-sation and liability insurance premiums	All other overhead expenses
						Proprietors and firm members	Employ-ees	Equip-ment	Offices, etc.				
NEVADA	12	\$2,799,529	\$568,000	\$502,273	\$532,842	\$4,125	\$85,087	\$58,380	\$3,153	\$21,466	\$10,079	\$15,728	\$921,104
General contractors	9	2,532,255	568,000	437,407	405,417		76,669	58,380	933	21,123	10,079	14,685	913,004
Building	5	313,708	135,000	63,598	88,527		2,075		366	207	850	1,420	5,246
Other classes ¹	4	2,218,487	433,000	373,809	316,890		74,594	58,380	577	20,910	15,229	13,265	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

KIND OF MATERIAL	COST OF MATERIALS REPORTED BY—					KIND OF MATERIAL	COST OF MATERIALS REPORTED BY—				
	All classes of establish-ments			General contractors	Subcon-tors		All classes of establish-ments			General contractors	Subcon-tors
	Amount	Per cent distribution	Per \$1,000 construction work done ¹				Amount	Per cent distribution	Per \$1,000 construction work done ¹		
NEVADA						NEVADA—Continued					
All kinds of materials	\$790,231		\$267.33	\$646,982	\$143,249	Distributed by kind—Continued.					
Distribution not reported	446,631	56.5		387,950	58,081	Millwork	\$15,467	4.5	\$12.03	\$15,467	
Distributed by kind	343,600	100.0		259,032	84,568	Composition board	1,900	.6	1.48	1,900	
Sand, gravel, stone, slag, cinders, etc.	99,858	29.1	77.69	99,858		Waterproofing materials	50	(?)	.04	50	
Brick (face, common, fire, paving, etc.)	1,270	.4	.99	1,270		Hardware, rough and finished	8,048	2.3	6.26	8,048	
Cement	13,454	3.9	10.47	13,454		Paints, varnishes, glass	2,425	.7	1.89	2,425	
Lime	120	(?)	.09	120		Roofing and sheet metal	1,200	.3	.93	1,200	
Plaster, etc.	1,300	.4	1.01	1,300		Finished flooring, other than cement, wood, or tile	100	(?)	.08	100	
Structural steel	2,867	.8	2.23	2,867		Screens, shades, awnings, etc.	560	.2	.44	560	
Reinforcing steel	2,995	.9	2.33	2,995		Heating and ventilating equipment	38,557	11.2	30.00	5,000	\$32,957
Cast iron, miscellaneous, excluding pipe	116	(?)	.09	116		Plumbing and gas fitting equipment	40,537	11.8	31.54	4,750	35,787
Metal doors, windows, and trim	1,730	.5	1.34	1,730		Electrical appliances and supplies	17,624	5.1	13.71	1,800	15,824
Metal and wire lath and furring	200	.1	.16	200		Pipe: Drain tile, vitrified, concrete, segment-tile, corrugated	2,930	.9	2.28	2,930	
Lumber, rough and finished	79,262	23.1	61.67	79,262		Bituminous paving materials, tar, asphalt, and oil	6,450	1.9	5.02	6,450	
Lath, shingles, and shakes (wood)	4,080	1.2	3.17	4,080		Miscellaneous	500	.1	.39	500	

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 Less than one-tenth of 1 per cent.
³ The percentage of total cost shown for this item is high because large amounts were reported by highway and street paving establishments whose work represented an exceptionally large part of total construction business in the State.
⁴ 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.

CONSTRUCTION—NEVADA

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]

KIND OF MATERIAL AND CLASSIFICATION OF ESTABLISHMENTS	COST OF DESIGNATED MATERIAL				Value of construction business	Indicated per cent of all business done by own force ¹	KIND OF MATERIAL AND CLASSIFICATION OF ESTABLISHMENTS	COST OF DESIGNATED MATERIAL				Value of construction business	Indicated per cent of all business done by own force ¹		
	Cost of all materials distributed by kind	Per cent of—						Cost of all materials distributed by kind	Cost of all materials distributed by kind	Per cent of—				Cost of all materials distributed by kind	
		Amount	Total cost	Cost of all distributed materials						Amount	Total cost				Cost of all distributed materials
NEVADA						NEVADA—Continued									
Sand, gravel, crushed stone, slag, and cinders*						Heating and ventilating equipment²									
All classes.....	\$343,600	\$99,868	100.0	29.1	\$1,115,289	81.2	All classes.....	\$343,600	\$38,557	100.0	11.2	\$1,115,289	81.2		
General contractors.....	259,032	99,868	100.0	38.6	939,757	79.5	General contractors.....	259,032	5,000	14.5	2.2	939,757	79.5		
Building.....	145,157	4,358	4.4	3.0	458,584	62.8	Building.....	145,157	5,000	14.5	3.9	458,584	62.8		
Building not specialized.....	109,657	3,938	3.9	3.6	408,584	63.6	Building not specialized.....	109,657	5,000	14.5	5.1	408,584	63.6		
Residential building.....	35,500	420	.4	1.2	50,000	59.2	Subcontractors.....	84,568	32,957	85.5	39.0	175,532	100.0		
Highway.....	89,200	82,500	82.6	92.5	396,227	82.2	Heating and plumbing.....	68,744	32,957	85.5	47.9	140,570	100.0		
Street paving.....	24,675	13,000	13.0	52.7	84,946	100.0	Plumbing.....	68,744	32,957	85.5	47.9	140,570	100.0		
Cement						Plumbing and gas fitting equipment³									
All classes.....	343,600	13,454	100.0	3.9	1,115,289	81.2	All classes.....	343,600	40,537	100.0	11.8	1,115,289	81.2		
General contractors.....	259,032	13,454	100.0	5.2	939,757	79.5	General contractors.....	259,032	4,750	11.7	1.8	939,757	79.5		
Building.....	145,157	7,304	54.3	5.0	458,584	62.8	Building.....	145,157	4,750	11.7	3.3	458,584	62.8		
Building not specialized.....	109,657	6,304	46.9	5.7	408,584	63.6	Building not specialized.....	109,657	4,750	11.7	4.3	408,584	63.6		
Residential building.....	35,500	1,000	7.4	2.8	50,000	59.2	Subcontractors.....	84,568	35,787	88.3	42.3	175,532	100.0		
Highway.....	89,200	2,200	16.4	2.5	396,227	82.2	Heating and plumbing.....	68,744	35,787	88.3	52.1	140,570	100.0		
Street paving.....	24,675	3,950	29.4	16.0	84,946	100.0	Plumbing.....	68,744	35,787	88.3	52.1	140,570	100.0		
Lumber, rough and finished						Electrical appliances and supplies									
All classes.....	343,600	79,262	100.0	23.1	1,115,289	81.2	All classes.....	343,600	17,624	100.0	5.1	1,115,289	81.2		
General contractors.....	259,032	79,262	100.0	30.6	939,757	79.5	General contractors.....	259,032	1,800	10.2	.7	939,757	79.5		
Building.....	145,157	78,762	99.4	54.3	458,584	62.8	Building.....	145,157	1,200	6.8	.8	458,584	62.8		
Building not specialized.....	109,657	49,822	62.0	45.4	408,584	63.6	Building not specialized.....	109,657	1,200	6.8	1.1	408,584	63.6		
Residential building only.....	35,500	28,940	36.5	81.5	50,000	59.2	Street paving.....	24,675	600	3.4	2.4	84,946	100.0		
Highway.....	89,200	500	.6	.6	396,227	82.2	Subcontractors.....	84,568	15,824	89.8	18.7	175,532	100.0		
Millwork						Electrical									
All classes.....	343,600	15,467	100.0	4.5	1,115,289	81.2	All classes.....	84,568	15,824	89.8	100.0	175,532	100.0		
General contractors.....	259,032	15,467	100.0	6.0	939,757	79.5	Electrical.....	15,824	15,824	89.8	100.0	34,962	100.0		
Building.....	145,157	15,467	100.0	10.7	458,584	62.8									
Building not specialized.....	109,657	15,467	100.0	14.1	408,584	63.6									
Hardware, rough and finished															
All classes.....	343,600	8,048	100.0	2.3	1,115,289	81.2									
General contractors.....	259,032	8,048	100.0	3.1	939,757	79.5									
Building.....	145,157	7,998	99.4	5.5	458,584	62.8									
Building not specialized.....	109,657	5,998	74.5	5.5	408,584	63.6									
Residential building only.....	35,500	2,000	25.0	5.6	50,000	59.2									
Street paving.....	24,675	50	.6	.2	84,946	100.0									

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

¹ Based upon the difference between the total value of all construction business reported and the value of subcontract work let.

² Includes cost of materials reported by subcontracting establishments which did not include the designated material in their distributed lists.

³ Includes construction work reported by subcontracting establishments which did not include the designated material in their distributed lists.

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.

⁶ See footnote 4, Table 9, on p. 743.

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

CLASSIFICATION OF ESTABLISHMENTS	Total cost of all materials*	COST OF ALL MATERIALS DISTRIBUTED BY KIND		Sand, gravel, crushed stone, slag, cinders, etc.	Cement	Structural steel	Reinforcing steel	Lumber, rough and finished	Laths, shingles, and shakes	Mill-work	Hardware, rough and finished	Paints, varnishes, and glass	Heating and ventilating equipment	Plumbing and gas fitting equipment	Electrical appliances and supplies	Pipe: Drain tile, vitrified, concrete, etc.	Bituminous paving materials	Miscellaneous ¹
		Amount	Per cent of total															
NEVADA.....	\$790,281	\$343,600	43.5	\$99,858	\$13,454	\$2,867	\$2,995	\$79,262	\$4,080	\$15,467	\$3,045	\$2,425	\$38,557	\$40,537	\$17,624	\$2,930	\$6,450	\$9,046
General contractors.....	646,982	259,032	40.0	99,858	13,454	2,867	2,995	79,262	4,080	15,467	3,048	2,425	5,600	4,750	1,800	2,930	6,450	9,046
Building.....	216,217	145,167	67.1	4,358	7,304	2,867	995	78,762	4,080	15,467	7,998	2,400	5,600	4,750	1,200	180	450	8,746
Building not specialized.....	170,457	109,657	64.3	3,938	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
Residential building only.....	45,760	35,500	77.6	420	1,000	-----	-----	28,940	2,000	-----	2,000	-----	-----	-----	-----	-----	-----	1,140
Highway.....	356,090	89,200	25.0	82,500	2,200	-----	2,000	500	-----	-----	-----	-----	-----	-----	-----	2,000	-----	-----
Street paving.....	24,675	24,675	100.0	13,000	3,950	-----	-----	-----	-----	-----	50	25	-----	-----	600	750	6,000	300
Subcontractors.....	143,249	84,568	59.0	-----	-----	-----	-----	-----	-----	-----	-----	-----	32,957	35,787	15,824	-----	-----	-----
Electrical.....	15,824	15,824	100.0	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	15,824	-----	-----	-----
Heating and plumbing.....	96,289	68,744	71.4	-----	-----	-----	-----	-----	-----	-----	-----	-----	32,957	35,787	-----	-----	-----	-----
Plumbing.....	68,744	68,744	100.0	-----	-----	-----	-----	-----	-----	-----	-----	-----	32,957	35,787	-----	-----	-----	-----

* Certain 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, included in totals in this column which carry a footnote to that effect.

¹ Includes bridge and culvert, \$50,000.

² Includes masonry, \$31,136.

³ Includes heating and piping, \$27,545.

⁴ Includes the reported cost of brick (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 these items see Table 9.

⁵ See footnote 3, Table 9, on p. 743.

⁶ See footnote 4, Table 9, on p. 743.

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

TYPES OF WORK	NEVADA 1930 population, 91,058							
	Known contracting establishments				Volume of business reported			
	Total number	Inactive in 1929	Active in 1929		Number of reporting establishments	Per cent of active	Amount	Average per establishment
			Number	Per cent				
Total establishments canvassed (under \$25,000).....	147	1	146	-----	-----	-----	-----	
Total establishments, type of work unknown.....	12	-----	12	-----	-----	-----	-----	
Total general and subcontractors classified.....	135	1	134	100.0	36	26.9	-----	
Total general contractors classified.....	29	-----	29	21.6	10	34.5	\$137,385	\$13,738
Building.....	26	-----	26	19.4	10	38.5	137,385	13,738
Street paving.....	3	-----	3	2.2	-----	-----	-----	-----
Total subcontractors classified.....	106	1	105	78.4	26	24.7	161,144	6,108
Carpentering.....	12	-----	12	9.0	2	16.7	23,800	11,900
Stone work.....	3	-----	3	2.2	2	66.7	4,001	2,001
Electrical.....	16	-----	16	11.9	5	31.3	30,754	6,151
Painting and decorating.....	20	1	19	14.2	3	15.8	18,356	6,119
Plumbing and heating.....	32	-----	32	23.9	10	31.3	64,369	6,437
Sheet metal and roofing.....	10	-----	10	7.5	-----	-----	-----	-----
Marble and tiling.....	2	-----	2	1.5	-----	-----	-----	-----
Heating and ventilating.....	2	-----	2	1.5	2	100.0	11,864	5,932
Plastering.....	1	-----	1	.7	-----	-----	-----	-----
Wrecking.....	2	-----	2	1.5	-----	-----	-----	-----
Masonry.....	3	-----	3	2.2	1	33.3	6,500	6,500
Glass and glazing.....	2	-----	2	1.5	1	50.0	1,500	1,500
Excavating.....	1	-----	1	.7	-----	-----	-----	-----

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.....	10	-----	1	-----	1	2	2	-----	2	-----	1
Subcontractors.....	26	4	12	4	-----	1	1	2	-----	2	-----