### III. SUMMARY

Census returns from the 210,959 manufacturing (and printing and publishing) establishments of the country indicated an aggregate outlay of \$36,683,000,000 for raw and semimanufactured materials (exclusive of fuels) used in these plants in 1929, about 35 per cent of which (\$12,676,000,000) was for raw materials alone. The amount of the difference between the two sums, \$24,007,000,000, represents the volume of transactions between manufacturers (directly or through middlemen), brought about by the decided specialization of industrial plants. interchange of partly processed materials occurs as follows: Plant A, after converting raw material into a semimanufactured article, may pass the latter on to Plant B, which advances the fabrication another step; Plant C may complete the processing, or it may pass the still incompleted article on to Plant D; and so Since generally a separate report is made to the Census Bureau covering the operations of each industrial establishment, the aggregates for "cost of materials, containers, fuel, and purchased electric energy" and for value of products contain considerable amounts of duplication. Thus it is that the gross value of products reported by the Census (\$70,435,000,000) is about 50 per cent greater than the value of finished or "end" products of American manufacture in 1929. latter or net value is estimated to have been \$47,243,000,000, equivalent to the sum of the costs of raw materials and imported semimanufactures and the "value added by manufacture" (comprising salaries, wages, interest, other expenses except cost of materials, etc., and manufacturing profits).

To arrive at the net-value figure it is necessary to estimate either the cost of the raw materials or that of the semimanufactured materials used. The procedure employed in this study was to calculate the expenditures of manufacturers for raw materials, a task far less laborious and uncertain than that of attempting to list the costs of thousands of semimanufactured materials and parts which were purchased by manufacturers for use in their plants. The increased detail in which manufacturers reported to the Census the materials consumed in 1929 greatly facilitated the project and reduced the necessity for estimating. The raw materials used in industry in that year are listed by kind and cost, for industry groups, in Table 23.

About two-thirds (67.3 per cent) of the cost of the crude materials consumed in manufactures went for those produced by agriculture and animal husbandry. Mines, quarries, and wells supplied more than a quarter (27.6 per cent) of the total and in addition provided coal and natural gas for factory fuel to the amount of four-fifths of a billion dollars. Of the raw materials consumed, 82.6 per cent were of domestic origin; the remainder came from abroad.

The outlay for materials is the largest single item of cost for the average manufacturer, the variation in the percentage of the gross value of output expended for "materials, containers, fuel, and purchased electric energy" ranging for individual industries, however, from as little as 9.8 per cent of the total in the industry engaged in the manufacture of cash registers and calculating machines to 92.5 per cent in the one engaged in the smelting and refining of copper. For all manufacturing industries the combined cost of materials, fuel, etc., was 54.7 per cent of the value of output in 1929 and 57.6 per cent 30 years earlier.

Because of the relative importance of material costs and the demand for highspeed production, any prolonged industrial advance would be likely to bring about marked improvement in the selection, care, and use of materials. Furthermore, the fact that they, like machines, are inanimate and controllable as compared with industrial personnel focuses attention on materials as being excellent subjects for the realization of pronounced economies. The materials organizations in industrial establishments, as a matter of fact, underwent a mild revolution in recent years, as attested by the increased number of concerns in which were to be found perpetual-inventory systems, specialized purchasing officials, salvage departments, material specifications, carefully laid out storegooms, and experimental and testing laboratories.

Economy in the use of industrial materials resulted in a commerce in secondary materials (scrap) sufficiently important to bring large business concerns and several trade associations into the field. Manufacturers reported to the Census the consumption in 1929 of scrap iron and scrap steel valued at more than \$540,000,000. Some few industries consumed chiefly secondary materials.

Scarcity of a given raw material often provides the incentive for the development of rival raw or synthetic materials. The increased manufacture of many different kinds of synthetic plastic products depends upon abundant supplies of relatively inexpensive vegetable fibers. The facility with which science reaches from scarce to more plentiful sources for required materials appears at least to lessen the immediate anxiety concerning the possible depletion of natural resources.

Although all industries use either crude or partly manufactured materials and are, therefore, dependent directly or indirectly upon an adequate supply of raw substances, the raw-material-consuming industries are those which are first and most seriously affected by any change in the nature or amount of crude materials available. In 68 industries, whose combined cost of materials and containers for products amounted to 34 per cent of the aggregate for all the 326 industries, more than half the 1929 cost represented expenditures for raw materials. For this group of industries the raw-material cost equaled about 54 per cent of the gross value of products, while the semimanufactures cost was about 10 per cent. In the remaining 258 industries the expenditures for raw materials amounted to only about 4 per cent of the gross value of output.

With the net value of finished products determined, it becomes possible to distribute it equitably among the several factors which contribute to the making of those products. To illustrate: If the gross value is divided into the wage item for 1929, it appears upon superficial inspection that the wage earner received 16.5 per cent of the f. o. b. factory value of the output; but if the same wage budget is divided by the net value of products the quotient is 24.6 per cent. The proportion for each item, except for materials, which enters into the value of output is thus increased, the differences being accounted for in the reduction of the share for materials, consisting now of only the combined cost of raw materials and imported semimanufactures.

Census data indicate that the total cost of materials and containers for products constituted an increasing proportion of the value of products from 1899 to the period of the World War and a decreasing proportion in the years following. Since in the earlier years the prices of raw materials rose more rapidly than those of manufactured goods, the manufacturers' outlays for raw materials would be likely to consume an increasing proportion of the income from the sale of the products. Price movements in the years following the war were, however, somewhat at variance with the decrease in the proportion which material costs formed of the value of the output. An explanation must, therefore, be sought elsewhere. It is probable that the remarkable advance made in the economical utilization of materials during the postwar decade would account in large part for the relative decline in expenditures for materials. Observation seems to disclose a growing indirectness of manufacture, that is, a moderate tendency for materials to pass

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through more and more plants before their processing is completed. While the comparison of available data for the years 1929 and 1904 indicates this trend only indistinctly, it is probable that the movement is concealed in part by conditions which obscure the meaning of the available data.

Table 23.—Consumption of Raw Materials, Imported Semimanufactures, Fuels, and Purchased Electric Energy, by Source, Kind, and Cost, for Industry Groups: 1929

[For explanation of "Net value of products" see headnote to Table 16]

## GROUP I.—FOOD AND KINDRED PRODUCTS

GATOUR IN TOOL MIN.	S MINDRED I NODUCIO		
Raw materials:	\$12, 023, 589, 000 factured fuels, total 5, 811, 734, 000		
a. Domestic b. Imported Unmanufactured fuels and pu Cost of semimanufactured mater	rchased energy 134, 219, 000		
fuels, totalSemimanufactured materials:	2, 820, 549, 000		
a. Domestic b. Imported Manufactured fuels	2, 314, 704, 000 478, 620, 000 27, 225, 000		
Net value of products Per cent of gross value	9, 681, 660, 000		
RAW MATERIALS O	F DOMESTIC ORIGIN		
Kind Cost Dairy products (milk and cream) \$911, 358, 000	Kind Cost		
Fruits, vegetables, and nuts     305, 323, 000       Grains: 1     22, 317, 000       Buckwheat     1, 942, 000       Corn     174, 302, 000       Grains, unspecified     289, 629, 000       Hops     2, 864, 000       Oats     32, 268, 000       Rice     34, 900, 000       Rye     9, 586, 000       Wheat     685, 129, 000       Mineral materials: 2     94, 000       Sulphur ore     94, 000       Water     3 3, 384, 000	Cattie. \$1,026,501,000 Sheep. 168,091,000 Swine. 1,227,569,000 Other animals 1,648,000 Poultry and products: 4 Chickens 89,455,000 Ducks 1,009,000 Turkeys 9,516,000 Other poultry 493,000 Seagres 67,225,000 Seagres 67,255,000 Sugar materials: Beets 164,765,000 Cane 10,468,000		
Kind Cost	Kind Cost		
Dairy products (milk and cream)       \$7,432,000         Fruits, vegetables, and nuts       44,681,000         Grains:       374,000         Wheat       17,435,000         Grains, unspecified       1,731,000         Gums:       7,129,000         Other       3,807,000	Livestock       \$23,848,000         Poultry products (eggs)       124,000         Sea products (fish, etc.)       16,706,000         Sugar materials (cane)       1,235,000         Other crude materials:       53,205,000         Cocea       325,077,000         Spice       20,222,000		
IMPORTED SEMIMANUFACTURED MATERIALS 5			
Kind         Cost           Animal oils, edible         \$201,000           Casein and lactarine         1,000,000           Cocoa and chocolate         2,256,000           Eggs, processed         12,497,000           Farinaceous preparations         5,064,000           Fodders and feeds         12,215,000           Gelatin, edible         1,049,000           Meat extracts         1,133,000           For footnotes, see p. 56.	Kind         Cost           Milk, condensed         \$1, 991, 000           Molasses         17, 833, 000           Nuts, processed         2, 231, 000           Oil, cake, and meal         7, 219, 000           Sausage casings         16, 577, 000           Sugar         370, 000, 000           Vegetable oils, edible         24, 914, 000           Vegetable preparations         3, 040, 000		

## FUELS AND PURCHASED ENERGY

UNMANUFACTURED	MANUFACTURED
Kind Cost	Kind Cost
Anthracite\$8,680,000	
Coal, bituminous       46, 702, 000         Gas, natural       8, 666, 000	Fuel oils 11, 404, 000
Purchased energy	Coke       \$5, 412, 000         Fuel oils       11, 404, 000         Gas, manufactured       6, 611, 000         Gasoline and kerosene       648, 000
· · · ·	Other fuels 3, 151, 000
GROUP II.—TEXTILES A	AND THEIR PRODUCTS
Gross value of products	\$9, 243, 303, 000
Cost of raw materials and unmanuf Raw materials:	\$9, 243, 303, 000 actured fuels, total1, 687, 515, 000
a. Domestic	877, 198, 000
b. Imported	701, 143, 000
Unmanufactured fuels and pure Cost of semimanufactured materia	chased energy 109, 174, 000
fuels, total	3, 416, 331, 000
Semimanufactured materials:	, <del> ,</del>
a. Domestic	3, 075, 454, 000
b. Imported	328, 946, 000
Manufactured fuels	11, 931, 000
Net value of products Per cent of gross value	65, 853, 858, 000 63. 3
rer cent of gross value	05. 5
RAW MATERIALS OF	F DOMESTIC ORIGIN
Kind Cost	Kind Cost
Raw fibers: 1	Other crude materials:
Cotton       \$676, 566, 000         Hair, animal       15, 500, 000         Wool       178, 935, 000	Feathers and down
W 001 178, 935, 000 Other 3, 327, 000	
RAW MATERIALS OF	FOREIGN ORIGIN 5
Kind Cost	Kind Cost
Furs\$12,000,000	
Mineral materials—mercury 71,000	Raw fibers—Continued.
Raw fibers: 1 Cotton 57, 333, 000	Other crude materials: 43, 257, 000
Flax, hemp, and jute 16, 961, 000	Feathers and down $3.380.000$
Hair, animal	Rubber
IMPORTED SEMIMANUI	FACTURED MATERIALS
Kind Cost	Kind Cost
Buttons \$2,169,000	Feathers, prepared \$87,000 Haircloth 80,000
Casein, etc       3,000,000         Cloth, cotton       9,059,000         Dyes       13,000,000	Hat material 18, 511, 000
Dyes13, 000, 000 Fabrics:	Hat material 18,511,000 Waste, cotton 2, 664,000 Wool noils, rags, etc 18,933,000
Flax, hemp, etc	Yarns:
Jute91,853,000	Cotton 4, 597, 000 Coir 132, 000
Silk38, 088, 000	Flax, hemp, etc
Rayon       2, 845, 000         Silk       38, 088, 000         Wool and mohair       58, 247, 000         Miscellaneous       2, 708, 000	Rayon
	CHASED ENERGY
UNMANUFACTURED	MANUFACTURED
Kind Cost	Kind Cost   Coke
Coal, bituminous	Fuel oils9,460,000
Anthracite       \$5,922,000         Coal, bituminous       37,111,000         Gas, natural       364,000         Purchased energy       65,777,000	Fuel oils       9, 460, 000         Gas, manufactured       1, 536, 000         Gasoline and kerosene       218, 000
2 000 01101 0101 0101 0101 0101 0101 01	Other fuels 632,000
For footnotes, see p. 56.	

# GROUP III.—FOREST PRODUCTS

Gross value of products  Cost of raw materials and unmanu Raw materials:  a. Domestic b. Imported  Unmanufactured fuels and pur Cost of semimanufactured mater fuels, total  Semimanufactured materials:  a. Domestic	chased energy als and manufactured	214, 614, 000 21, 980, 000 31, 219, 000 1, 318, 370, 000
b. Imported		1, 254, 965, 000 58, 814, 000
Net value of products		4, 591, 000
Per cent of gross value		64. 9
	F DOMESTIC ORIGIN	
Logs: K	nd	Cost
Factory value		\$12, 277, 000 7 193, 325, 000
Turpentine		4 9, 012, 000
	F FOREIGN ORIGIN 5	
	Cind .	Cost
Cork, crude Logs, cabinet wood, etc.		13, 780, 000
IMPORTED SEMIMANU	FACTURED MATERIALS	
Kind Cost	Kind	Cost
Cane, reed, etc\$598, 000 Miscellaneous wood products260, 000	Oil, cresote	\$10, 878, 000 47, 078, 000
	CHASED ENERGY	17, 070, 000
UNMANUFACTURED	MANUFACTU	JRED
Vind Cost	TZim d	Cont
Kind         Cost           Anthracite         \$736,000           Coal, bituminous         12,392,000           Gas, natural         522,000           Purchased energy         17,569,000	Coke	978, 000
Anthracite	Coke	\$111,000 2,269,000 307,000 978,000 927,000
Anthracite \$736,000 Coal, bituminous 12,392,000 Gas, natural 522,000 Purchased energy 17,569,000  GROUP IV.—PAPER A	Coke. Fuel oils. Gas, manufactured. Gasoline and kerosene. Other fuels.	\$111,000 2,269,000 307,000 978,000 927,000
Anthracite \$736,000 Coal, bituminous 12,392,000 Gas, natural 522,000 Purchased energy 17,569,000  GROUP IV.—PAPER A  Gross value of products Cost of raw materials and unmanu	Coke. Fuel oils. Gas, manufactured. Gasoline and kerosene. Other fuels.	\$111,000 2,269,000 307,000 978,000 927,000
Anthracite \$736,000 Coal, bituminous 12,392,000 Gas, natural 522,000 Purchased energy 17,569,000  GROUP IV.—PAPER A  Gross value of products Cost of raw materials and unmanu Raw materials: a. Domestic b. Imported Unmanufactured fuels and pur Cost of semimanufactured mate	Coke. Fuel oils. Gas, manufactured. Gasoline and kerosene. Other fuels.  ND ALLIED PRODUC factured fuels, total chased energy ial and manufactured	TS \$1, 892, 251, 000 298, 310, 000 188, 953, 000 34, 226, 000 75, 131, 000
Anthracite \$736,000 Coal, bituminous 12,392,000 Gas, natural 522,000 Purchased energy 17,569,000  GROUP IV.—PAPER A  Gross value of products Cost of raw materials and unmanu Raw materials:  a. Domestic b. Imported Unmanufactured fuels and pur Cost of semimanufactured mate fuels, total Semimanufactured materials:	Coke. Fuel oils. Gas, manufactured. Gasoline and kerosene Other fuels.  ND ALLIED PRODUC  factured fuels, total  chased energy ial and manufactured	TS \$1, 892, 251, 000 298, 310, 000 34, 226, 000 75, 131, 000
Anthracite \$736,000 Coal, bituminous 12,392,000 Gas, natural 522,000 Purchased energy 17,569,000  GROUP IV.—PAPER A  Gross value of products Cost of raw materials and unmanu Raw materials: a. Domestic b. Imported Unmanufactured fuels and pur Cost of semimanufactured mate fuels, total Semimanufactured materials: a. Domestic  a. Domestic  a. Domestic  a. Domestic	Coke. Fuel oils. Gas, manufactured. Gasoline and kerosene. Other fuels.  ND ALLIED PRODUC factured fuels, total chased energy. ial and manufactured	TS \$1, 892, 251, 000 298, 310, 000 34, 226, 000 75, 131, 000
Anthracite \$736,000 Coal, bituminous 12,392,000 Gas, natural 522,000 Purchased energy 17,569,000  GROUP IV.—PAPER A  Gross value of products Cost of raw materials and unmanu Raw materials: a. Domestic b. Imported Unmanufactured fuels and pur Cost of semimanufactured mate fuels, total Semimanufactured materials: a. Domestic b. Imported Manufactured fuels	Coke. Fuel oils. Gas, manufactured. Gasoline and kerosene. Other fuels.  ND ALLIED PRODUC factured fuels, total chased energy. rial and manufactured	\$111,000 2,269,000 307,000 978,000 927,000 TS \$1, 892, 251, 000 298, 310, 000 188, 953, 000 34, 226, 000 75, 131, 000 794, 412, 000 692, 081, 000 95, 766, 000 6, 565, 000
Anthracite \$736,000 Coal, bituminous 12,392,000 Gas, natural 522,000 Purchased energy 17,569,000  GROUP IV.—PAPER A  Gross value of products Cost of raw materials and unmanu Raw materials: a. Domestic b. Imported Unmanufactured fuels and pur Cost of semimanufactured mate fuels, total Semimanufactured materials: a. Domestic b. Imported Manufactured fuels	Coke. Fuel oils. Gas, manufactured. Gasoline and kerosene. Other fuels.  ND ALLIED PRODUC factured fuels, total chased energy. rial and manufactured	\$111,000 2,269,000 307,000 978,000 927,000 TS \$1, 892, 251, 000 298, 310, 000 188, 953, 000 34, 226, 000 75, 131, 000 794, 412, 000 692, 081, 000 95, 766, 000 6, 565, 000
Anthracite \$736,000 Coal, bituminous 12,392,000 Gas, natural 522,000 Purchased energy 17,569,000  GROUP IV.—PAPER A  Gross value of products Cost of raw materials and unmanu Raw materials: a. Domestic b. Imported Unmanufactured fuels and pur Cost of semimanufactured materials; a. Domestic b. Imported fuels, total Semimanufactured materials: a. Domestic b. Imported Manufactured fuels Net value of products Per cent of gross value	Coke. Fuel oils. Gas, manufactured. Gasoline and kerosene. Other fuels.  ND ALLIED PRODUC factured fuels, total chased energy ial and manufactured	\$111,000 2,269,000 307,000 978,000 927,000 TS \$1, 892, 251, 000 298, 310, 000 188, 953, 000 34, 226, 000 75, 131, 000 794, 412, 000 692, 081, 000 95, 766, 000 6, 565, 000
Anthracite \$736,000 Coal, bituminous 12,392,000 Gas, natural 522,000 Purchased energy 17,569,000  GROUP IV.—PAPER A  Gross value of products Cost of raw materials and unmanu Raw materials: a. Domestic b. Imported Unmanufactured fuels and purchased of semimanufactured materials: a. Domestic Semimanufactured materials: a. Domestic b. Imported Manufactured fuels and purchased of semimanufactured materials: a. Domestic b. Imported Manufactured fuels Net value of products Per cent of gross value  RAW MATERIALS O	Coke. Fuel oils. Gas, manufactured. Gasoline and kerosene. Other fuels.  ND ALLIED PRODUC  actured fuels, total  chased energy rial and manufactured	TS  \$1, 892, 251, 000 298, 310, 000 188, 953, 000 34, 226, 000 75, 131, 000 794, 412, 000 692, 081, 000 95, 766, 000 6, 565, 000 1, 193, 606, 000 63. 1
Anthracite \$736,000 Coal, bituminous 12,392,000 Gas, natural 522,000 Purchased energy 17,569,000  GROUP IV.—PAPER A  Gross value of products Cost of raw materials and unmanu Raw materials: a. Domestic b. Imported Unmanufactured fuels and purchased of semimanufactured materials: a. Domestic b. Imported Semimanufactured materials: a. Domestic b. Imported Manufactured fuels Net value of products Per cent of gross value  RAW MATERIALS O  Mineral materials:  **Cost**	Coke. Fuel oils. Gas, manufactured. Gasoline and kerosene. Other fuels.  ND ALLIED PRODUC  factured fuels, total chased energy. rial and manufactured  F DOMESTIC ORIGIN  Kind	**************************************
Anthracite \$736,000 Coal, bituminous 12,392,000 Gas, natural 522,000 Purchased energy 17,569,000  GROUP IV.—PAPER A  Gross value of products Cost of raw materials and unmanu Raw materials: a. Domestic b. Imported Unmanufactured fuels and purchased of semimanufactured materials: a. Domestic b. Imported Semimanufactured materials: a. Domestic b. Imported Manufactured fuels Net value of products Per cent of gross value  RAW MATERIALS O  Mineral materials:  **Cost**	Coke. Fuel oils. Gas, manufactured. Gasoline and kerosene. Other fuels.  ND ALLIED PRODUC  factured fuels, total chased energy. rial and manufactured  F DOMESTIC ORIGIN  Kind	**************************************
Anthracite \$736,000 Coal, bituminous 12,392,000 Gas, natural 522,000 Purchased energy 17,569,000  GROUP IV.—PAPER A  Gross value of products Cost of raw materials and unmanu Raw materials: a. Domestic b. Imported Unmanufactured fuels and put Cost of semimanufactured mate fuels, total Semimanufactured materials: a. Domestic b. Imported Manufactured fuels Net value of products Per cent of gross value  RAW MATERIALS O	Coke. Fuel oils. Gas, manufactured. Gasoline and kerosene. Other fuels.  ND ALLIED PRODUC  actured fuels, total  chased energy rial and manufactured	**************************************

# RAW MATERIALS OF FOREIGN ORIGIN

RAW MAIERIALS OF	1011111111		
· K	ind Cost		
Mineral materials—clav	\$3, 000, 000 15, 694, 000 15, 532, 000		
Pulpwood	15, 694, 000		
Rags, etc.	10, 032, 000		
IMPORTED CEMIMANIII	FACTURED MATERIALS		
	ind Cost		
Wood pulp	\$95, 767, 000		
FUELS AND PURC	CHASED ENERGY		
UNMANUFACTURED	MANUFACTURED		
Kind Cost	Kind Cost		
Anthracite	Coke \$16,000		
Anthracite.       \$5, 263, 000         Coal, bituminous.       42, 728, 000         Gas, natural.       1, 092, 000         Purchased energy.       26, 048, 000	Fuel oils. 4, 571, 000 Gas, manufactured 95, 000 Gasoline and kerosene 30, 000 Other fuels 1, 852, 000		
Purchased energy 26, 048, 000	Gasoline and kerosene 30,000		
	Other fuels 1,852,000		
GROUP V.—PRINTING, PUBLISH	IING, AND ALLIED INDUSTRIES		
Gross value of products	\$3, 170, 140, 000		
Cost of unmanufactured fuels and r	$purchased\ energy_{} \qquad 22, 147, 000$		
Cost of semimanufactured materi	als and manufactured		
fuels, totalSemimanufactured materials:	744, 337, 000		
Semimanufactured materials:			
a. Domestic	584, 204, 000		
b. Imported	156, 545, 000		
Manufactured fuels	3 588 000		
Net value of products	\$ 2, 412, 449, 000		
Per cent of gross value	76. 1		
IMPORTED SEMIMANUFACTURED MATERIALS 5			
IMPORTED SEMIMANUI	FACTURED MATERIALS 5		
_			
Poper	Cind Cost		
Poper	Cind Cost		
Poper			
Paper: K Decalcomania, not printed. Standard newsprint. Miscellaneous.	Cind         Cost           \$157,000         \$155,330,000           1,058,000         \$1,058,000		
Paper: K Decalcomania, not printed. Standard newsprint. Miscellaneous.	Cind Cost		
Paper: K Decalcomania, not printed. Standard newsprint. Miscellaneous.	Cind         Cost           \$157,000         \$155,330,000           1,058,000         \$1,058,000		
Paper: K Decalcomania, not printed	Cind     Cost       \$157,000     155,330,000       1,058,000     1,058,000		
Paper: K Decalcomania, not printed Standard newsprint. Miscellaneous.  FUELS AND PURC  UNMANUFACTURED  Kind Cost	Cost \$157, 000 155, 330, 000 1, 058, 000 CHASED ENERGY  MANUFACTURED Kind Cost \$55,000		
Paper: K Decalcomania, not printed Standard newsprint. Miscellaneous.  FUELS AND PURC  UNMANUFACTURED  Kind Cost	Cost \$157, 000 155, 330, 000 1, 058, 000 CHASED ENERGY  MANUFACTURED Kind Cost \$55,000		
Paper: K Decalcomania, not printed Standard newsprint. Miscellaneous.  FUELS AND PURC  UNMANUFACTURED  Kind Cost	Cost \$157, 000 155, 330, 000 1, 058, 000 CHASED ENERGY  MANUFACTURED Kind Cost \$55,000		
Paper: K Decalcomania, not printed	Cind Cost \$157,000 \$155,330,000 \$1,058,000  CHASED ENERGY  MANUFACTURED Kind Cost		
Paper: K Decalcomania, not printed Standard newsprint. Miscellaneous.  FUELS AND PURC  UNMANUFACTURED  Kind Cost	Cost   \$157, 000   155, 330, 000   1, 058, 000   1, 058, 000		
Paper:	Cost   \$157,000   \$155,330,000   \$1,058,000   \$1,058,000   \$1,058,000   \$1,058,000   \$1,058,000   \$1,058,000   \$1,058,000   \$1,058,000   \$1,058,000   \$1,058,000   \$1,795,000   \$1,955,00		
Paper:   K   Decalcomania, not printed   Standard newsprint   Miscellaneous   FUELS AND PURCOMB   Standard newsprint   Miscellaneous   FUELS AND PURCOMB   Standard   Standard	Cost   \$157,000   155,330,000   1,058,00		
Paper:   K   Decalcomania, not printed   Standard newsprint   Miscellaneous   FUELS AND PURCOMB   Standard newsprint   Miscellaneous   FUELS AND PURCOMB   Standard   Standard	Cost   \$157,000   155,330,000   1,058,00		
Paper:   K   Decalcomania, not printed   Standard newsprint   Miscellaneous   FUELS AND PURCOMB   Standard newsprint   Miscellaneous   FUELS AND PURCOMB   Standard   Standard	Cost   \$157,000   155,330,000   1,058,000   1,058,000   1,058,000   1,058,000   1,058,000   1,058,000   1,058,000   1,058,000   1,058,000   1,058,000   1,058,000   1,058,000   1,795,00		
Paper:   K   Decalcomania, not printed   Standard newsprint   Miscellaneous   FUELS AND PURCOMB   Standard newsprint   Miscellaneous   FUELS AND PURCOMB   Standard   Standard	Cost   \$157,000   \$155,330,000   \$1,058,000   \$1,058,000   \$1,058,000   \$1,058,000   \$1,058,000   \$1,058,000   \$1,058,000   \$1,058,000   \$1,058,000   \$1,058,000   \$1,795,000   \$1,955,00		
Paper: K Decalcomania, not printed Standard newsprint.  Miscellaneous.  FUELS AND PURC  UNMANUFACTURED  Kind Cost Anthracite	Cost   \$157,000   155,330,000   1,058,000   1,058,000   1,058,000   1,058,000   1,058,000   1,058,000   1,058,000   1,058,000   1,058,000   1,058,000   1,058,000   1,795,000   1,058,00		
Paper:  Decalcomania, not printed Standard newsprint.  Miscellaneous  FUELS AND PURC  UNMANUFACTURED  Kind  Cost  Anthracite  Coal, bituminous  2, 223, 000 Gas, natural  712, 000 Purchased energy  18, 405, 000  Gross value of products  Cost of raw materials and unmanuf Raw materials:  a. Domestic b. Imported	Cost   \$157,000   155,330,000   1,058,00		
Paper:  Decalcomania, not printed Standard newsprint.  Miscellaneous  FUELS AND PURC  UNMANUFACTURED  Kind  Cost  Anthracite  Coal, bituminous  2, 223, 000 Gas, natural  712, 000 Purchased energy  18, 405, 000  Gross value of products  Cost of raw materials and unmanuf Raw materials:  a. Domestic b. Imported	Cost   \$157,000   155,330,000   1,058,00		
Paper: K Decalcomania, not printed Standard newsprint.  Miscellaneous.  FUELS AND PURC  UNMANUFACTURED  Kind Cost Anthracite	Cost   \$157,000   155,330,000   1,058,00		
Paper:  Decalcomania, not printed Standard newsprint.  Miscellaneous  FUELS AND PURC  UNMANUFACTURED  Kind  Cost  Anthracite S807,000 Coal, bituminous 2,223,000 Gas, natural 712,000 Purchased energy 18,405,000  GROUP VI.—CHEMICALS  Gross value of products Cost of raw materials and unmanuf Raw materials: a. Domestic b. Imported Unmanufactured fuels and pur	Cost   \$157,000   155,330,000   1,058,00		
Paper:  Decalcomania, not printed Standard newsprint Miscellaneous  FUELS AND PURCOMMISCELLAND PURCOMISCELLAND PURCOMMISCELLAND PURCO	Cost   \$157,000   155,330,000   1,058,000   1,058,000   1,058,000   1,058,000   1,058,000   1,058,000   1,058,000   1,058,000   1,058,000   1,058,000   1,058,000   1,058,000   1,058,000   1,058,000   1,795,00		
Paper:  Decalcomania, not printed Standard newsprint Miscellaneous  FUELS AND PURCOMMISCELLAND PURCOMISCELLAND PURCOMMISCELLAND PURCO	Cost   \$157, 000   155, 330, 000   1, 058, 000   1, 058, 000   1, 058, 000   1, 058, 000   1, 058, 000   1, 058, 000   1, 058, 000   1, 058, 000   62, 000   1, 049, 937, 000   256, 710, 000   256, 710, 000   1, 000		
Paper:  Decalcomania, not printed Standard newsprint.  Miscellaneous  FUELS AND PURC  UNMANUFACTURED  Kind  Cost  Anthracite \$807,000  Gas, natural 712,000  Purchased energy 18,405,000  Gross value of products. Cost of raw materials and unmanuf Raw materials: a. Domestic b. Imported  Unmanufactured fuels and pur Cost of semimanufactured materials  Materials: a. Domestic b. Imported  Unmanufactured fuels and pur Cost of semimanufactured materials  Materials: a. Domestic b. Imported  Fuels	Cost   \$157,000   155,330,000   1,058,000   1,058,000   1,058,000   1,058,000   1,058,000   1,058,000   1,058,000   Ended of the content of		
Paper:  Decalcomania, not printed Standard newsprint Miscellaneous  FUELS AND PURCOMMISCELLAND PURC	Cost   \$157,000   155,330,000   1,058,000   1,058,000   1,058,000   1,058,000   1,058,000   1,058,000   1,058,000   1,058,000   1,058,000   1,058,000   1,055,000   1,055,000   1,795,000   1,795,000   1,795,000   1,795,000   1,795,000   1,795,000   1,795,000   1,795,000   1,795,000   1,795,000   1,795,000   1,795,000   1,795,000   1,795,000   1,795,000   1,795,000   1,795,000   1,995,00		
Paper:  Decalcomania, not printed Standard newsprint Miscellaneous  FUELS AND PURCOMMISCELLAND PURC	Cost   \$157,000   155,330,000   1,058,000   1,058,000   1,058,000   1,058,000   1,058,000   1,058,000   1,058,000   1,058,000   1,058,000   1,058,000   1,055,000   1,055,000   1,795,000   1,795,000   1,795,000   1,795,000   1,795,000   1,795,000   1,795,000   1,795,000   1,795,000   1,795,000   1,795,000   1,795,000   1,795,000   1,795,000   1,795,000   1,795,000   1,795,000   1,995,00		
Paper:  Decalcomania, not printed Standard newsprint.  Miscellaneous  FUELS AND PURC  UNMANUFACTURED  Kind  Cost  Anthracite \$807,000  Gas, natural 712,000  Purchased energy 18,405,000  Gross value of products. Cost of raw materials and unmanuf Raw materials: a. Domestic b. Imported  Unmanufactured fuels and pur Cost of semimanufactured materials  Materials: a. Domestic b. Imported  Unmanufactured fuels and pur Cost of semimanufactured materials  Materials: a. Domestic b. Imported  Fuels	Cost   \$157,000   155,330,000   1,058,000   1,058,000   1,058,000   1,058,000   1,058,000   1,058,000   1,058,000   1,058,000   1,058,000   1,058,000   1,055,000   1,055,000   1,795,000   1,795,000   1,795,000   1,795,000   1,795,000   1,795,000   1,795,000   1,795,000   1,795,000   1,795,000   1,795,000   1,795,000   1,795,000   1,795,000   1,795,000   1,795,000   1,795,000   1,995,00		

## RAW MATERIALS OF DOMESTIC ORIGIN

RAW MAT	ERIALS OF	DOMESTIC ORIGIN	
Kind	Cost	Kind	Cost
Animal materials:		Mineral materials—Continued.	
Fertilizer stock 1		Nonmetallic minerals, unspecified	1_ \$4,000,000
Glue stock	179,000 4 3,251,000	Phosphate rock	12, 960, 000 1, 280, 000
Fruits, vegetables, and nuts		Pyrites. Quartzite. Rock salt and natural brine.	220, 000
Mineral materials: 2	11, 110, 000	Rock salt and natural brine	8, 253, 000
Abrasives	970, 000	Silica rock	1. 334. 000
Barite	1,850,000	Sulphur ore Talc and soapstone Sea products (fish scrap, etc.)¹	1 300 000
Bauxite		Taic and soapsione	3, 300, 000
BorateClay	300,000		
Feldspar	75,000	Cottonseed Cotton linters Flaxseed Vegetable gums	200, 000, 000
Fluorspar	356,000	Cotton linters	5,844,000
Gas, natural	6, 522, 000	Flaxseed Vegetable gums	266 000
Gypsum Limestone	22,000 4,735,000	Wood: 1	200, 000
Magnesite		Pulpwood	5, 410, 000
Manganese	575,000	Wood and bark	11,611,000
Mercury	2, 319, 000		
RAW MA	TERIALS O	F FOREIGN ORIGIN 5	
Kind	Cost	Kind	Cost
	0000	Forest materials—Continued.	
Animal materials: Bones, hoofs, etc	\$2,439,000	Solvents, gums, etc	\$33, 610, 000
Fertilizer materials	6, 856, 000	Solvents, gums, etc Tanning and dyeing materials	4, 207, 000
Oil, animal Drugs, herbs, seeds, etc.:	3, 174, 000	Mineral materials:	
Drugs, herbs, seeds, etc.:	70 054 000	Cryolite	721, 000 72, 000 1, 209, 000
Drugs, herbs, etcFlaxseed	12, 204, 000	Fluorspar Mercury Nonferrous ores	1, 209, 000
Oil seeds	37, 451, 000	Nonferrous ores	4,504,000
Tea leaves	254,000	Phosphate rock	5/7,000
Forest materials:		PyritesQuartzite	1,621,000
Latex	260,000	Quartzite	230, 000
IMPORTED S	SEMIMANUI	FACTURED MATERIALS 5	
Kind	Cost	Kind	Cost
Animal products, inedible		Oils:	AO 070 000
Casein and lactarene	300,000	Essential Fish	\$8,873,000 10,431,000
Cellophane in sheets	. 660,000	Vegetable	92, 270, 000
Chemical materials	36, 835, 000	Vegetable Perfume materials	4, 655, 000
Coal-tar products	5, 265, 000 908, 000	Pigments	4, 500, 000
Fertilizer materials	68, 138, 000	Talcum Tanning extracts	903, 000
Dyeing extracts Fertilizer materials Glue stock, gelatine, etc.	6, 785, 000	Waxes	4, 628, 000 5, 111, 000
Medicinal and pharmaceutical prepara	-	Waxes	0, 111, 000
tions		1	
FUEL	S AND PUR	CHASED ENERGY	
UNMANUFACTURED		MANUFACTURED	a
Kind	Cost	Kind	Cost
Anthracite.	\$3,410,000	Coke	1, 507, 000
Clark hiterarcia com	97 411 000	Fuel oilsGas, manufactured	1,091,000 1,091,000
Gas, natural	2,318,000	Gas, manufactured	226, 000
Gas, natural Purchased energy	_ 41, 550, 000	Other fuels	3, 284, 000
*			, .
GROUP VII.—PRO	DUCTS O	F PETROLEUM AND COA	L
Gross value of products		\$3, 6 ctured fuels, total \$1, 82, 1	47, 748, 000
Cost of raw materials and	unmanufac	ctured fuels, total 2, 1	90, 063, 000
Raw materials:			
a Domestic		L, O	09, 300, 000
			85, 939, 000
Unmanufactured fuels a	nd nurchas	ed energy 2	94, 764, 000
Cost of semimanufactured	meteriala	and manufactured fuels	,,
Cost of semimanuractured	materiais	and mandraourourus,	56, 776, 000
total		<u> </u>	30, 110, 000
Semimanufactured mate	nais:	n	48, 315, 000
a. Domestic			±0, 010, 000
$b. \text{ Imported}_{}$			05 461 000
Manufactured fuels			08, 461, 000
Net value of products		3, 2	90, 972, 000
Per cent of gross va	lue		90. 2
For footnotes, see p. 56.			
r or roothores, see b. so.			

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RAW MA	TERIALS OF	DOMESTIC ORIGIN	Accessed to the control of the contr
Kind	Cost	Kind	Cost
2.01		Mineral materials—Continue	a
Coal, anthracite	\$477,000	Gasoline natural	\$3, 563, 000
Mineral materials: 2 Coal, anthracite Coal, bituminous Coal slack	850,000	Gas, natural Gasoline, natural Petroleum, crude	1, 571, 332, 000
TO A 337 345	AMBIDIATE O	F FOREIGN ORIGIN	- Automorphism - Artificial Automorphism - A
Petroleum, crude	Ki	nd	Cost \$85, 930,000
			400, 800, 000
FUEL	S AND PUR	CHASED ENERGY	
UNMANUFACTURED		MANUFACTURED	
Kind	Cost	Kind	Cost
Anthracite	\$2,560,000 1 278 430 000	Coke Fuel oils <sup>11</sup> Gas, manufactured <sup>12</sup> Gasoline and kerosene	\$14,751,000
Gas, natural	10 1, 817, 000	Gas, manufactured 12	39, 242, 000 51, 278, 000
Purchased energy	11, 958, 000	Gasoline and kerosene	71,000
		Other fuels	3, 118, 000
GROUP	VIII.—RU	BBER PRODUCTS	
Grees value of products			\$1 117 460 000
Gross value of products Cost of raw materials an	d unmanuf	actured fuels, total	229, 302, 000
Raw materials:		,,	0,002,000
a. Domestic			775, 000
b. Imported			209, 459, 000
Unmanufactured fue	els and pure	chased energy	19, 068, 000
Cost of semimanufactured materials and manufactured			
fuels, total	,,		349, 376, 000
Semimanufactured r			940 940 000
			348, 340, 000
Manufactured fuels			426, 000
Net value of products			610,000 $768,511,000$
Per cent of gross value			68. 8
-			00. 8
RAW MA	TERIALS OF	DOMESTIC ORIGIN	
•		nd	Cost
Mineral materials (sulphur ore) 2			\$775,000
RAW M	ATERIALS O	F FOREIGN ORIGIN	
Rubber, crude	Ki	nd	Cost
Rubber, crude			\$209, 459, 000
IMPORTED	SEMIMANU	FACTURED MATERIALS	
	Ki	nd	Cost
Rubber, reclaimed and scrap			
FUEL	S AND PUR	CHASED ENERGY	
UNMANUFACTURED		MANUFACTU	RED
Kind	Cost	Kind	Cost
Anthracite Coal, bituminous Gas, natural Purchased energy	\$381,000	Coke	\$3,000
Gas, natural	0, 279, 000 167, 000	Gas, manufactured	543, 000
Purchased energy	10, 241, 000	Fuel oils. Gas, manufactured. Gasoline and kerosene. Other fuels.	30,000
		Utner tuels	1,000

# GROUP IX.—LEATHER AND ITS MANUFACTURES

Gross value of productsCost_of raw materials and unmanufa	actured fuels, total	\$1, 905, 977, 000 306, 692, 000
Raw materials:		
a. Domestic b. Imported		145, 934, 000 147, 577, 000
b. ImportedUnmanufactured fuels and pure	chased energy	13, 181, 000
Cost of semimanufactured materi	als and manufactured	825, 250, 000
fuels, totalSemimanufactured materials:		, ,
a. Domestic b. Imported		774, 926, 000
Manufactured fuels		49, 728, 000 596, 000
Net value of products		1, 130, 454, 000
Per cent of gross value		59. 3
RAW MATERIALS OF		
Hides and skins, raw 4	nd	Cost \$145,934,000
RAW MATERIALS OI		φ110, 10±, 000
		Cost
Hides and skins, raw		\$147, 577, 000
IMPORTED SEMIMANUI	FACTURED MATERIALS	
Ki	nd	Cost
Cork products Leather		\$1, 500, 000 48, 228, 000
FUELS AND PURC		
UNMANUFACTURED	MANUFACTU	RED
Kind Cost	Kind	Cost
Anthracite       \$485, 000         Coal, bituminous       6, 284, 000         Gas, natural       38, 000         Purchased energy       6, 373, 000	Coke	
Gas, natural 38, 000 Purchased energy 6, 373, 000	Gas, manufactured	129,000
	Other fuels	80,000
GROUP X.—STONE, CLAY	AND GLASS PRODI	ECTS
Gross value of productsCost_of raw materials and unmanuf	actured fuels, total	344, 959, 000
Raw materials:		
a. Domestic		190, 222, 000 15, 923, 000
b. ImportedUnmanufactured fuels and pure	chased energy	138, 814, 000
Cost of semimanufactured materi	als and manufactured	
fuels, total Semimanufactured materials:		181, 381, 000
a. Domestic		149, 510, 000
b. Imported Manufactured fuels		13, 154, 000
Net value of products		18, 717, 000 1, 393, 187, 000
Per cent of gross value		89. 2
RAW MATERIALS OF	DOMESTIC ORIGIN	
Kind Cost	Kind	Cost
Mineral materials: 2	Kind Mineral materials—Continue Nonclay refractory mater Sand and gravel Sandstone Silica	đ.
A brasive materials \$1,695,000 Asbestos, crude 400,000 Clay 45,501,000	Nonclay retractory mater Sand and gravel	ials \$11, 700, 000 7, 295, 000
Clay 45, 501, 000 Earth and minerals, unspecified 5, 500, 000	Sandstone Silica	1 5, 628, 000 1 4, 835, 000
Feldspar 1, 225, 000 Fluorspar 268, 000	Slag Slate	55,000
Granite 1.17 600 000	Stone:	
Graphite, natural 238, 000 Gypsum, crude and calcined 22, 339, 000	CrushedOther	1, 261, 000
Magnesite 1,948,000	Talc and soapstone Raw fibers (cotton)	4 1, 000, 000
Marble 17,600,000	Sea materials (shells)	400, 000
For footnotes, see p. 56.		

## RAW MATERIALS OF FOREIGN ORIGIN 5

	~	T21 . 1		
Mineral materials:	Cost	Kind	Cost	
Abrasive materials	. \$835,000	Mineral materials—Continued.	\$1,343,000	
Asbestos, crude	4,659,000	Mineral materials—Continued.  Gypsum, crude and calcined.  Magnesite, crude and calcined.  Marble.	1, 585, 000	
Feldspar	255,000	MarbleOther nonmetallic minerals	2, 670, 000 542, 000	
Fluorspar	134,000	Slate	- 95,000	
Mineral materials: Abrasive materials. Asbestos, crude. Clay Feldspar. Fluorspar Granite Graphite, natural.	1, 200, 000	Other stone	481,000	
		A CONTINUED IN AMERICA C		
		FACTURED MATERIALS 5	~ .	
Kind	Cost	Kind	Cost	
Asbestos	- \$3,997,000 - 5,269,000	Cork productsOther nonmetallic minerals	2, 388, 000	
		CHASED ENERGY		
UNMANUFACTURED	1	MANUFACTURED		
	Cont	Kind	Class	
Kind Anthracite	Cost	Coke	Cost _ \$808,000	
Coal, bituminous	73, 968, 000	Fuel oils Gas, manufactured	11, 965, 000	
Gas, natural	24,453,000	Gas, manufacturedGasoline and kerosene	_ 1,913,000 _ 462,000	
I dichased energy	_ 30, 032, 000	Other fuels	3, 569, 000	
GROUP XI.—IRON AN	D STEEL LUDING	AND THEIR PRODUCTS, MACHINERY	IOT	
			928 000	
Cost of raw materials and	dunmanuf	actured fuels, total \$7, 137	. 912, 000	
Raw materials:		,	,,	
			, 502, 000	
b. Imported		33	, 415, 000	
Unmanufactured fue	is and pure	chased energy 166	, 995, 000	
Cost of semimanufactur		ais and manufactured 3, 047	, 961, 000	
Semimanufactured n	aterials:		, 501, 000	
a. Domestic			, 600, 000	
b. Imported		112	, 228, 000	
			, 133, 000	
Net value of products		4, 202	, 195, 000	
Per cent of gross value			58. 9	
RAW MA	TERIALS OF	F DOMESTIC ORIGIN		
Kind	Cost	Kind	Cost	ک
Mineral materials:	#9 900 000	Mineral materials —Continued.	\$22 760 000	0
Fluorspar Iron ore	. 345, 438, 000	LimestoneScrap iron	234, 095, 000	
RAW MA	TERIALS O	F FOREIGN ORIGIN 5		
Kind	Cost	1 Kind	Cost	
Mineral materials:		Mineral materials—Continued.		
Diamonds, industrial Ferro-alloying ores Fluorspar	. \$4,373,000 3.815.000	Iron ore Manganese ore	\$8, 145, 000	
Fluorspar	668,000	Manganese ore	10, 414, 000	
IMPORTED S	SEMIMANU	FACTURED MATERIALS		
Kind	Cost	Kind	Cost	
Iron and steel Metals, ferro-alloying	\$20,680,000	Tin	\$79, 377, 000	
Metals, ferro-alloying	12, 171, 000			
FUEL	S AND PUR	CHASED ENERGY		
UNMANUFACTURED		MANUFACTURED		
Kind	Cost	Kind	Cost	
Anthracite	\$2,554,000	Coke	\$198, 158, 000	
Coal, bituminous	87, 159, 000 20, 014, 000	Fuel oilsGas, manufactured	47, 016, 000 47, 708, 000	
Purchased energy	57, 268, 000	Gasoline and kerosene	555,000	
For footnotes see a se		Other fuels	2, 696, 000	
For footnotes, see p. 56.				

# GROUP XII.—NONFERROUS METALS AND THEIR PRODUCTS

Gross value of productsCost of raw materials and unmanufar Raw materials:  a. Domestic	519, 506, 000 57, 465, 000 43, 503, 000 als and manufactured 1, 844, 970, 000 1, 575, 856, 000 247, 832, 000 21, 282, 000 1, 999, 920, 000
Per cent of gross value	55. 6
RAW MATERIALS OF	F DOMESTIC ORIGIN
Kind         Cost           Mineral materials: 2         4 \$283, 517, 000           Copper ore	Kind         Cost           Mineral materials—Continued.         \$80,000,000           Scrap, nonferrous ore
RAW MATERIALS O	F FOREIGN ORIGIN
Mineral materials:         Kind         Cost           Antimony ore         \$248,000           Bauxite         2,295,000           Copperore, concentrates and regulus         25,325,000           Gold and silver sweepings         311,000           Lead and bullion         13,917,000           Nickel ore and matte         2,281,000	Kind         Cost           Mineral materials—Continued.         \$5,090,000           Nonferrous ores and concentrates
IMPORTED SEMIMANUI	FACTURED MATERIALS 5
Kind         Cost           Aluminum         \$12, 129, 000           Antimony         2, 506, 000           Brass         1, 365, 000           Bronze         1, 578, 000           Clock and clock movements         8, 034, 000           Cobalt         1, 380, 000           Copper         139, 684, 000           Jewelry, semimanufactured         1, 500, 000	Kind         Cost           Lead         \$2,097,000           Miscellaneous metals         2,170,000           Nickel         20,353,000           Platinum and platinum metals         4,955,000           Stones, precious         24,000,000           Tin in bars, blocks         25,376,000           Zine         155,000
FUELS AND PURC	CHASED ENERGY
UNMANUFACTURED	MANUFACTURED
Kind         Cost           Anthracite         \$4,268,000           Coal, bituminous         13,767,000           Gas, natural         4,099,000           Purchased energy         21,309,000           For footnotes, see p. 56.	Kind         Cost           Coke         \$5,938,000           Fuel olis         12,395,000           Gas, manufactured         2,185,000           Gasoline and kerosene         260,000           Other fuels         503,000

# GROUP XIII.—MACHINERY, NOT INCLUDING TRANSPORTATION EQUIPMENT

b. Imported Unmanufactured fuels Cost of semimanufactured i total Semimanufactured manufactured manu	and purc naterials:	phased energy and manufactured fuels,	127, 46, 3, 78, 2, 566, 2, 530, 4, 32,	380,000 621,000 407,000 101,000 113,000 759,000 007,000 569,000 183,000 190,000 63.6
9		DOMESTIC ORIGIN		
Kind	Cost	Kind		Cost
Mineral materials: <sup>2</sup> Mercury, crude Mica	\$195,000 522,000	Mineral materials—Continue Scrap, old iron and steel.	ed.	\$45, 690, 000
RAW MAT	ERIALS O	F FOREIGN ORIGIN 5		
Mercury, crude	Ki	nd 		Cost \$112, 00 2, 989, 000
IMPORTED SE	EMIMANUI	FACTURED MATERIALS 5		
Carbon products		nd		Cost \$401,000 2,000,000 2,168,000
UNMANUFACTURED		MANUFACTU	RED	
Kind Anthracite_ Coal, bituminous_ Gas, natural Purchased energy_	Cost \$2,062,000 24,745,000 3,798,000 47,508,000	Coke		Cost \$14, 972, 000 9, 123, 000 5, 276, 000 1, 450, 000 1, 362, 000
GROUP XIV.—TRANSPORT	WA	EQUIPMENT, AIR, TER		
Gross value of products Cost of raw materials and Raw materials: a. Domestic			3.	209, 000 934, 000 781, 000
b. Imported			41.	, 153, 000
fuels, total Semimanufactured manufactured manufact	aterials:		3, 638, 3, 625	, 214, 000 , 410, 000
b. Imported			12 2, 408	, \$04, 000 , 996, 000 39. 8

## RAW MATERIALS OF DOMESTIC ORIGIN

	DOMESTIC ORIGIN
a et 1 taniales	ind Cost
Mineral materials.	\$3,781,000
	CHASED ENERGY
UNMANUFACTURED	MANUFACTURED
Kind $Cost$	Kind Cost
Anthracite. \$443,000 Coal, bituminous 14,879,000 Gas, natural 1,135,000 Purchased energy 24,696,000	Coke\$1, 272, 000
Coal, bituminous	Fuel oils 6, 290, 000 Gas, manufactured 2, 838, 000
Purchased energy 24, 696, 000	Gasoline and kerosene 2, 174, 000
I division of the same of the	Other fuels 230, 000
GROUP XV.—RAILR	OAD REPAIR SHOPS
o 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	#1 900 01F 000
Gross value of products	Sactured fuels, total \$1, 269, 917, 000 26, 679, 000
Cost of raw materials and unmanus	actured filess, total 20, 079, 000
Raw materials: $a. \text{ Domestic}_{}$	(14)
b. Imported	(14)
Unmanufactured fuels and pur	chased energy 26, 679, 000
Cost of semimanufactured mater	iale and manufactured
finale total	521, 665, 000
Samimanufactured materials.	
fuels, totalSemimanufactured materials: a. Domestic	517, 160, 000
b. Imported	(14)
Manufactured fuels	<b>1</b> , 505, 000
Net value of products	748, 252, 000
Per cent of gross value	58. 9
·-	
	CHASED ENERGY
UNMANUFACTURED	MANUFACTURED
Kind Cost	Kind Cost
Anthracite \$1,302,000	Coke
Coal, bituminous 14, 886, 000	Fuel oils 4,001,000
Coal, bituminous       14, 886, 000         Gas, natural       1, 093, 000         Purchased energy       9, 397, 000	Coke.       \$151,000         Fuel oils.       4,001,000         Gas, manufactured       119,000         Gasoline and kerosene.       188,000
Anthracite       \$1,302,000         Coal, bituminous       14,886,000         Gas, natural       1,093,000         Purchased energy       9,397,000	Fuel oils
	Other fuels 188,000 45,000
	Gasoline and Kerosene
GROUP XVI.—MISCEL	Gasoline and kerosene
GROUP XVI.—MISCEL	Gasoline and kerosene
GROUP XVI.—MISCEL  Gross value of products	Gasoline and Rerosene
GROUP XVI.—MISCEL  Gross value of products	Gasoline and Rerosene
GROUP XVI.—MISCEL  Gross value of products	Gasoline and kerosene
GROUP XVI.—MISCEL  Gross value of products	Gasoline and Rerosene
GROUP XVI.—MISCEL  Gross value of products  Cost of raw materials and unmanu Raw materials:  a. Domestic  b. Imported  The propurfactured fuels and pure the content of	Gasoline and kerosene
GROUP XVI.—MISCEL  Gross value of products  Cost of raw materials and unmanu Raw materials:  a. Domestic  b. Imported  The propurfactured fuels and pure the content of	Gasoline and kerosene
GROUP XVI.—MISCEL  Gross value of products  Cost of raw materials and unmanu Raw materials:  a. Domestic  b. Imported  The propurfactured fuels and pure the content of	Gasoline and kerosene
GROUP XVI.—MISCEL  Gross value of products	Gasoine and Rerosene
GROUP XVI.—MISCEL  Gross value of products Cost of raw materials and unmanu Raw materials: a. Domestic b. Imported Unmanufactured fuels and pu Cost of semimanufactured materials; fuels, total Semimanufactured materials: a. Domestic b. Imported	Gasoine and kerosene
GROUP XVI.—MISCEL  Gross value of products Cost of raw materials and unmanu Raw materials: a. Domestic b. Imported Unmanufactured fuels and pu Cost of semimanufactured materials; fuels, total Semimanufactured materials: a. Domestic b. Imported	Gasoine and kerosene
GROUP XVI.—MISCEL  Gross value of products	Gasoine and kerosene
GROUP XVI.—MISCEL  Gross value of products Cost of raw materials and unmanu Raw materials: a. Domestic b. Imported Unmanufactured fuels and pu Cost of semimanufactured materials; fuels, total Semimanufactured materials: a. Domestic b. Imported	Gasoine and kerosene
GROUP XVI.—MISCEL  Gross value of products	Gasoline and kerosene
GROUP XVI.—MISCEL  Gross value of products	Gasoine and kerosene
GROUP XVI.—MISCEL  Gross value of products	Gasoline and Rerosene
GROUP XVI.—MISCEL  Gross value of products Cost of raw materials and unmanu Raw materials: a. Domestic b. Imported Unmanufactured fuels and pu Cost of semimanufactured materials: a. Domestic b. Imported Manufactured materials: a. Domestic b. Imported Manufactured fuels Net value of products Per cent of gross value  RAW MATERIALS O  Kind Agricultural materials:	Gasoline and Rerosene
GROUP XVI.—MISCEL  Gross value of products Cost of raw materials and unmanu Raw materials: a. Domestic b. Imported Unmanufactured fuels and pu Cost of semimanufactured materials: Semimanufactured materials: a. Domestic b. Imported Manufactured fuels Net value of products Per cent of gross value  RAW MATERIALS OF Manufactural materials:  RAY MATERIALS OF MARIE MARI	Gasoline and kerosene
GROUP XVI.—MISCEL  Gross value of products Cost of raw materials and unmanu Raw materials: a. Domestic b. Imported Unmanufactured fuels and pu Cost of semimanufactured materials: Semimanufactured materials: a. Domestic b. Imported Manufactured fuels Net value of products Per cent of gross value  RAW MATERIALS O  Kind  Agricultural materials: Broomcorn S6, 021, 000 Cotton 6, 500, 000	Gasoline and kerosene
GROUP XVI.—MISCEL  Gross value of products Cost of raw materials and unmanu Raw materials: a. Domestic b. Imported Unmanufactured fuels and pu Cost of semimanufactured materials: a. Domestic b. Imported Manufactured fuels Manufactured fuels Net value of products Per cent of gross value  RAW MATERIALS O  Kind  Agricultural materials: Broomcorn So, 021, 000 Cotton Grasses So, 020, 000 Grasses So, 000 Grasses	Gasoline and kerosene
GROUP XVI.—MISCEL  Gross value of products Cost of raw materials and unmanu Raw materials: a. Domestic b. Imported Unmanufactured fuels and pu Cost of semimanufactured materials: a. Domestic b. Imported Manufactured fuels Manufactured fuels Net value of products Per cent of gross value  RAW MATERIALS O  Kind  Agricultural materials: Broomcorn So, 021, 000 Cotton Grasses So, 020, 000 Grasses So, 000 Grasses	Gasoline and kerosene
GROUP XVI.—MISCEL  Gross value of products Cost of raw materials and unmanu Raw materials: a. Domestic b. Imported Unmanufactured fuels and pu Cost of semimanufactured materials: a. Domestic b. Imported Manufactured materials: a. Domestic b. Imported Manufactured fuels Net value of products Per cent of gross value  RAW MATERIALS O  Kind  Agricultural materials: Broomcorn String Grasses G	Gasoline and kerosene
GROUP XVI.—MISCEL  Gross value of products Cost of raw materials and unmanu Raw materials: a. Domestic b. Imported Unmanufactured fuels and pu Cost of semimanufactured materials: a. Domestic b. Imported Manufactured materials: a. Domestic b. Imported Manufactured fuels Net value of products Per cent of gross value  RAW MATERIALS O  Kind  Agricultural materials: Broomcorn String Grasses G	Gasoline and kerosene
GROUP XVI.—MISCEL  Gross value of products Cost of raw materials and unmanu Raw materials: a. Domestic b. Imported Unmanufactured fuels and pu Cost of semimanufactured materials: a. Domestic b. Imported Manufactured materials: a. Domestic b. Imported Manufactured fuels Net value of products Per cent of gross value  RAW MATERIALS O  Kind  Agricultural materials: Broomcorn String Grasses G	Gasoline and kerosene
GROUP XVI.—MISCEL  Gross value of products Cost of raw materials and unmanu Raw materials: a. Domestic b. Imported Unmanufactured fuels and pu Cost of semimanufactured materials: a. Domestic b. Imported Semimanufactured materials: a. Domestic b. Imported Manufactured fuels Net value of products Per cent of gross value  RAW MATERIALS OF  Kind  Agricultural materials: Broomcorn Cotton Grasses Gras	Gasoline and kerosene

#### RAW MATERIALS OF FOREIGN ORIGIN<sup>5</sup>

Kind	Cost	Mineral materials: Kind	Cost
Agricultural materials (tobacco) Animal materials: Furs, undressed		Chalk Mercury Stones, precious and semiprecious	\$129,000 122,000 7,400,000
Ivory		Sea materials (shells) Other materials (human hair)	3, 135, 000 250, 000

#### IMPORTED SEMIMANUFACTURED MATERIALS'S

	Kind	Cost	Kind	Cost
BristlesCork. Feathers, prepared Furs	d	9, 423, 000 1, 500, 000 87, 000 18, 207, 000	Mercury Paper, cigarette, etc. Photographic material Pyroxylin materials Vegetable materials, inedible	8, 567, 000 6, 727, 000 1, 687, 000

#### FUELS AND PURCHASED ENERGY

UNMANUFACTURED		MANUFACTURED	
Kind	Cost	Kind	Cost
Anthracite	7, 537, 000 352, 000	Coke Fuel oils Gas, manufactured. Gasoline and kerosene. Other fuels.	1, 799, 000 1, 093, 000 177, 000

Quantities reported; costs estimated in part.
 Estimated in part from reports of Bureau of Mines.

3 Estimated from data on returns for the census for 1931. The water was used in the manufacture of ice.

4 Estimated in large part.

4 Estimated in large part.

5 Estimated in large part from statistics compiled by Bureau of Foreign and Domestic Commerce.

6 Amount deducted, \$302,059,000, representing the cost of contract work.

7 Quantities reported; costs based on estimates furnished by Forest Service, Department of Agriculture.

8 Amount deducted, \$169,899,000, representing the cost of contract work.

9 Data for bituminous coal which was produced and consumed in the same plants, valued at \$46,008,000, were deducted to avoid deplication in cost of fuel.

10 Data for natural gas which was produced and consumed in the same plants, valued at \$15,728,000, were deducted to avoid duplication in cost of fuel.

11 Data for fuel oil which was produced and consumed in the same plants, valued at \$42,398,000, were deducted to avoid duplication in cost of fuel.

12 Data for manufactured gas which was produced and consumed in the same plants, valued at \$3,564,000, were deducted to avoid duplication in cost of fuel.

12 Data for manufactured gas which was produced and consumed in the same plants, valued at \$3,564,000, were deducted to avoid duplication in cost of fuel.

12 Estimated in part from data of the Department of the Treasury.

14 No consumption of raw materials or imported semimanufactures reported.

#### RAW-MATERIAL-CONSUMING INDUSTRIES. SIXTY-EIGHT BY INDUSTRY GROUPS

Food and Kindred Products

Canning and preserving: Fish, crabs, shrimps, oysters, and clams.

Canning and preserving: Fruits and vegetables; pickles, jellies, preserves. and sauces.

Cereal preparations.

Cheese.

Chocolate and cocoa products, not including confectionery.

Coffee and spice, roasting and grinding. Condensed and evaporated milk.

Corn sirup, corn sugar, corn oil, and starch.

Feeds, prepared, for animals and fowls. Flour and other grain-mill products. Ice cream.

Malt.

Meat packing, wholesale.

Peanuts, walnuts, and other nuts, processed or shelled.

Poultry killing, dressing, and packing, wholesale.

Rice cleaning and polishing.

Sugar, beet.

Sugar, cane, not including products of refineries.

Textiles and Their Products

Cordage and twine. Cotton goods.

Felt goods, wool, hair, or jute. Haircloth.

Hat and cap materials, men's.

Jute goods.

Linen goods.

Mats and matting, grass and coir.

Silk and rayon manufactures.

Upholstering materials, not elsewhere classified.

Woolen goods.

Forest Products

Baskets and rattan and willow ware. not including furniture.

Cork products.

Excelsior.

Turpentine and rosin.

Paper and Allied Products

Pulp (wood and other fiber).

Chemicals and Allied Products

Bone black, carbon black, and lampblack.

Grease and tallow, not including lubricating greases.

Liquors, vinous.

Oil, cake, and meal, cottonseed.

Oil, cake, and meal, linseed.

Oils, essential.

Oils, not elsewhere classified.

Wood distillation and charcoal manufacture.

Products of Petroleum and Coal

Coke, not including gas-house coke. Gas, manufactured, illuminating and heating.

Petroleum refining.

Leather and Its Manufactures

Leather: Tanned, curried, and finished.

Stone, Clay, and Glass Products

Cement.

Clay products (other than pottery) and nonclay refractories.

Graphite, ground and refined.

Lime.

Marble, granite, slate, and other stone products.

Minerals and earths, ground or otherwise treated.

Pottery, including porcelain ware.
Wall plaster, wall board, insulating board, and floor composition.

Iron and Steel and Their Products, Not Including Machinery

Iron and steel: Blast furnaces.

Nonferrous Metals and Their Products

Silversmithing and silverware.

Smelting and refining, metals other than gold, silver, or platinum, not from the ore.

Smelting and refining, zinc.

Miscellaneous Industries

Brooms.

Cigars and cigarettes.

Foundry supplies.

Fur goods.

Hair work.

Ivory, shell, and bone work, not including buttons, combs, or hairpins.

Lapidary work.

Tobacco: Chewing and smoking, and snuff.