

Intercity Freight Haulage, by Commodity, Shipping Density and Type of Transport, 1960

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•A STUDY of the pattern of weight demands for intercity freight transportation in 1954 (1) listed 260 categories of commodities hauled by highway. These commodities had been set forth in a code (2) published by the Interstate Commerce Commission (ICC). The Bureau of the Budget (BOB) published a more detailed code (3) in 1962 listing 1,315 commodities. Commodities transported in 1960, of course, were not reported under the BOB code. This study, however, attempts to allocate 1960 production and commodity data under this new code so that comparisons between past, present and future transport statistics can be made.

Shortly after the publication of the BOB code, the ICC compiled and published a revised ICC commodity code listing 369 different commodities. The new ICC code is compatible with the BOB code in that many of the commodities listed separately in the BOB code have been "collapsed" into the fewer and broader 369 ICC commodity codes. For instance, hay and forage 01191, hops (malt) 01192, potatoes, sweet 01194, straw 01196, sugar cane 01198 and field crops n.e.c. (not elsewhere classified) 01199 have been collapsed into field crops, miscellaneous 01190. The ICC code may be expanded at will and it is entirely possible that the 369 commodities may soon be increased if sufficient tonnages allocated to any of the collapsed codes warrant individual reporting. In the instance just cited, the more than 16 million tons of hay and forage, more than 17 million tons of straw, and 9 million tons of sugar cane would seem to warrant individual reporting.

The Census of Transportation is being conducted under the BOB code of 1,315 commodities. Notice was given (4) by the ICC on January 30, 1963, that commodity statistical data required for calendar year 1964 and annually or quarterly thereafter must be reported under the new ICC code by Class I and II railroads (other than switching and terminal companies), Class A and B carriers by water, maritime carriers, and Class I common and contract motor carriers of property operating in intercity service. The objectives of the revised ICC commodity code are stated in the Commission's order as follows:

The "Proposed ICC Standard Commodity Code" has been designed so that statistics reported thereunder for use of the Commission may be related to existing and projected commodity data compiled and published by the Federal Government. It is an adaptation of the "Commodity Classification for Transportation Statistics" developed by the Office of Statistical Standards, Bureau of the Budget, for use in the planned Census of Transportation of 1963, which in turn was based on the Standard Industrial Classification (S.I.C.) prepared by the Bureau of the Budget and used generally by government agencies and others in the collection and presentation of data relating to business establishments. The "Proposed ICC Standard Commodity Code" is compatible with the "Proposed

Standard Transportation Commodity Code" developed also on the basis of the Bureau of the Budget "Commodity Classification for Transportation Statistics" by the Association of American Railroads and proposed for use within the railroad industry effective January 1, 1964.

STUDY PROCEDURES

In the Appendix are listed the commodities of the full commodity classification issued by BOB, to which produced and transported tonnages were assigned. References are shown by which the two most frequently used codes up to 1963 can be correlated with the BOB code. The letter P in the old code designations indicates that the code has been broken down into parts; e.g., barley and rye in the old code are now being shown separately. Three codes are shown for many commodities; for instance, rice under Farm Products was known by the Corps of Engineers as code 101, by the old ICC as code 11 and by the BOB as code 01134. Rice is one of the commodities shown by both the BOB and the new ICC code under the same number. The collapsing of codes by the ICC has been desirable because for many of the BOB codes there are few tons reported. The tonnages of the commodities have been listed in the Appendix essentially as they appear in the BOB code. Some wording of commodity names is rearranged so that significant words can appear at the beginning of the commodity classification. Numerals shown in parentheses represent tons or ton-miles which have been collapsed into a group commodity total. Addition of figures without parentheses gives the summation for each of the 29 two-digit commodity groups, such as 375,695,000 tons shown for FARM PRODUCTS 1960 production tons. Production tons given in the Appendix do not in all instances agree with production figures given in the ICC publication (5) as the ICC data did not include some of the waterborne tonnages.

Data on average length of haul were available for railroad tonnage (6) and for inland waterway tonnage (7, 8). This type of information was not available for highway tonnage and could not be reported. Pipeline and airline tonnages are shown at the end of the Appendix.

Every effort was made to allocate tonnage reported to the proper BOB code. In some instances this was impossible and the tonnage was, of necessity, listed in an n.e.c. code. As time goes on, especially with the reporting of commodity movements in the Census of Transportation, a better allocation of commodity tonnage to the BOB code can be made. In the meantime, this study will be of assistance in research into the optimum design of motor freight vehicles through the estimation of demand for the haulage of the various commodities. Also, the study compares 1960 tonnage in 5-lb increments of shipping density with similar data for 1954.

The Freight Commodity Statistics Classification in use up to 1963 was divided into five principal commodity groups as follows: I Products of Agriculture, II Animals and Products, III Products of Mines, IV Products of Forests, and V Manufactures and Miscellaneous (2). The 1,315 new Commodity Classifications for Transportation Statistics (3), published by BOB, are subdivided into 29 commodity groups and coded with a 2-digit numbering system from 01 to 40, eleven numbers being reserved for later expansion of the code. The 29 active commodity groups are listed in Table 1.

The steps used in determining the pattern of weight demand were generally similar to those used in the previous study (1). Briefly, these steps were as follows:

1. Data on the annual production of all commodities, both manufactured and not manufactured, were obtained. Original sources of data were obtained and used wherever possible. The main source was the ICC Statement No. 6301 (5) indicating the tonnage produced in 1960 which entered into transportation and showing the tonnage conveyed by railways. The other four types of transport are not included. The commodities were reported, of course, under the old ICC commodity code.

2. An estimation of the tonnages carried by each of the five principal types of transport was then made. Railway figures were obtained from the ICC report (5). Waterway figures came chiefly from U.S. Army Corps of Engineer publications (7, 8)

TABLE 1
TONS AND TON-MILES OF FREIGHT HAULED IN THE UNITED STATES IN 1960^a

Group Number	Commodity Groups, BOB Classification	Railways		Inland Waterways		Domestic Coastlines	Highways	Pipelines	Airways
		Tons (thousands)	Ton-Miles (millions)	Tons (thousands)	Ton-Miles (millions)	(ton-mi, millions)	(tons, thousands)	(tons, thousands)	(tons, thousands)
01	Farm products	127,936	57,067	15,220	12,059	1,688	367,715	-	-
08	Forest products	6,040	2,503	4	0	78	10,301	-	-
09	Fresh fish and other marine products	48	38	23,136	1,194	84	86	-	-
10	Metallic ores	117,760	24,958	72,579	53,918	421	3,446	-	-
11	Coal	314,400	91,741	126,241	26,193	3,201	131,497	-	-
13	Crude petroleum, natural gas, and natural gasoline	1,888	855	35,251	8,630	60,167	27,996	334,105	-
14	Nonmetallic minerals, except fuels	188,413	32,943	85,562	16,984	6,164	1,043,834	-	-
19	Ordnance and accessories	0	0	0	0	0	0	-	-
20	Food and kindred products	84,104	54,591	5,834	2,130	13,452	122,049	-	-
21	Tobacco products	491	608	1	0	119	448	-	-
22	Basic textiles	772	764	40	23	109	5,984	-	-
23	Apparel and other finished textiles products, including knit apparel	395	327	4	0	78	768	-	-
24	Lumber and wood products, except furniture	81,720	49,038	24,637	957	10,332	181,551	-	-
25	Furniture and fixtures	1,174	1,149	0	0	0	4,541	-	-
26	Pulp, paper and allied products	41,360	27,614	2,434	446	1,405	57,849	-	-
27	Printed matter	540	689	0	0	0	1,491	-	-
28	Chemicals and allied products	55,363	29,890	11,109	6,664	10,812	92,301	-	-
29	Petroleum and coal products	46,197	18,112	114,867	26,094	193,395	303,552	118,027	-
30	Rubber and miscellaneous plastics products	1,484	1,087	20	1	45	1,483	-	-
31	Leather and leather products	102	108	2	0	29	765	-	-
32	Stone, clay and glass products	44,291	11,795	6,393	1,511	1,543	90,208	-	-
33	Primary metal products	37,603	16,237	9,993	6,551	7,108	59,618	-	-
34	Fabricated metal products, except ordnance, machinery, and transportation equipment	31,283	13,353	12	3	96	70,872	-	-
35	Machinery, except electrical	3,565	2,988	331	43	245	10,316	-	-
36	Electrical machinery, equipment and supplies	2,730	2,503	65	8	386	8,686	-	-
37	Transportation equipment	14,860	9,992	907	133	374	30,193	-	-
38	Instruments, photographic and optical goods, watches and clocks	0	0	0	0	0	0	-	-
39	Miscellaneous products of manufacturing	10,283	6,552	6,349	248	2,400	49,628	-	794
40	Waste and scrap materials	31,063	6,019	11,390	1,012	85	67,270	-	-
	Total	1,247,865	463,521	551,381	164,802	313,816	2,744,446	452,132	794

^aBased on Appendix.

and from ICC reports (6). Pipeline and airways data came from "Minerals Yearbook" and from the "Statistical Handbook of Civil Aviation." Ton-miles, by commodity were available for the first time for domestic waterways and are included in the report, as are ton-miles for railways. Domestic coastline waterway data have been added because they represent a competitive mode of travel to freight movements inside the United States boundary. Coastwise shipments from New York to New Orleans, Baltimore via Panama Canal to the West Coast, etc., are in direct competition with rail, highway and pipeline shipments. These data have not been combined with inland waterway ton-miles because previous presentations of such statistics have not shown them together. They are shown, however, so that an overall domestic waterways ton-mile analysis can be made. Agricultural commodities are assumed to have been moved from their point of production by motor truck because few if any rail sidings or water terminals are convenient for initial farm transportation. Some estimates of line-haul tonnages by motor truck were obtained by subtracting the subtotal of the tons hauled by railroad, inland waterway and pipeline from the total tons moved. Airway tonnage increased from 464,000 tons in 1954 to 794,000 tons in 1960. Although this tonnage has a high intrinsic value, it represents only 0.015 percent of the total tonnage.

3. An important part of the study was the determination of the shipping density of each commodity. Products such as wheat and coal are not generally packaged for shipment, as their net weights are their shipping weights. Most products, however, are packaged and the weight of the commodity as it moves in commerce divided by the cubic content in feet, determines the shipping density, stated in pounds per cubic foot. This density may then be related to the cubic content of cargo bodies.

DISTRIBUTION OF HIGHWAY TONNAGE

To determine the demand for freight transportation, the various commodities have been arrayed in 5-lb intervals of shipping density for the five types of transport (Table 2). Figure 1 shows the distribution of the tons of freight moved by highway during 1954 and 1960. Of considerable interest is the close resemblance between the 1960 and the 1954 commodity distributions. The tonnage in most 5-lb intervals increased in 1960 as compared with 1954. The marked cessation in the demand for

TABLE 2
TONS OF FREIGHT HAULED IN THE UNITED STATES IN 1960^a

Shipping Density (pcf)	Railways	Inland Waterways	Highways	Pipelines	Airways
5 - 9.9	5,640	60	35,693	-	-
10 - 14.9	11,219	1,428	86,314	-	-
15 - 19.9	4,883	609	15,974	-	-
20 - 24.9	15,177	694	46,991	-	-
25 - 29.9	36,643	9,102	119,006	-	794
30 - 34.9	63,905	2,719	103,973	-	-
35 - 39.9	122,302	9,497	145,251	-	-
40 - 44.9	97,837	96,319	253,821	92,462	-
45 - 49.9	112,498	33,333	286,448	-	-
50 - 54.9	328,190	126,246	146,578	-	-
55 - 59.9	34,718	101,300	237,409	359,670	-
60 - 64.9	2,521	1	2,952	-	-
65 - 69.9	9,541	1,196	30,686	-	-
70 - 74.9	4,588	527	13,247	-	-
80 - 84.9	7,225	-	4,520	-	-
85 - 89.9	141	-	671	-	-
90 - 94.9	69,226	5,310	81,807	-	-
100 - 104.9	102,656	78,137	919,948	-	-
105 - 109.9	10,606	-	7,455	-	-
110 - 114.9	2,114	-	7,134	-	-
115 - 119.9	658	-	13,791	-	-
120 - 124.9	-	1,798	-	-	-
130 - 134.9	10,351	2,193	39,853	-	-
135 - 139.9	-	171	-	-	-
145 - 149.9	27,118	3,368	53,813	-	-
155 - 159.9	1,866	-	427	-	-
160 - 164.9	76	283	2,181	-	-
165 - 169.9	1,029	-	997	-	-
170 - 174.9	7,590	198	-	-	-
180 - 184.9	4,615	343	2,865	-	-
185 - 189.9	36,300	-	60,476	-	-
190 - 194.9	-	34	-	-	-
195 - 199.9	1,529	1	352	-	-
215 - 219.9	1,201	-	1,183	-	-
220 - 224.9	9,795	4,743	6,631	-	-
225 - 229.9	4,902	1,213	15,167	-	-
250 - 254.9	941	7	-	-	-
290 - 294.9	96,847	70,551	-	-	-
310 - 314.9	1,417	-	332	-	-
Total	1,247,865	551,381	2,744,446	452,132	794

^aGiven in thousands of tons, based on Appendix.

haulage of packaged goods occurred in both years at 50 pcf. The bars for 50 to 54.9 lb and 55 to 59.9 lb represent the flowable commodities of coal, crude petroleum, and petroleum products other than gasoline, the cargoes of which can be limited by tank or hopper size. The tallest bar represents commodities in the 100- to 104.9-lb group of gravel, sand and crushed rock. These commodities do not move for long distances. The falloff in demand for packaged freight is, therefore, found at approximately 50 pcf.

Assuming that the empty weight of a 5-axle 40-ft van combination is about 30,000 lb (9, 10) and its cargo carrying capacity is approximately 2,200 cu ft, then this point of marked lessening of demand occurs at a possible gross vehicle weight of 140,000 lb (2,200 × 50 pcf + 30,000 lb). The present density of commodity at which such a combination can be loaded visibly full while still abiding by gross weight limitations is approximately 20 pcf. This is computed by subtracting the empty weight of 30,000 lb from the present gross weight limit set for the Interstate System, 73,280 lb, and dividing by the cargo capacity of 2,200 cu ft.

It is interesting to note at this point that the tonnage hauled by highway of densities less than 20 pcf represents only 5.0 percent of all highway tonnage and 11.1 percent of all highway tonnage less than pcf. This indicates not only that present gross weight

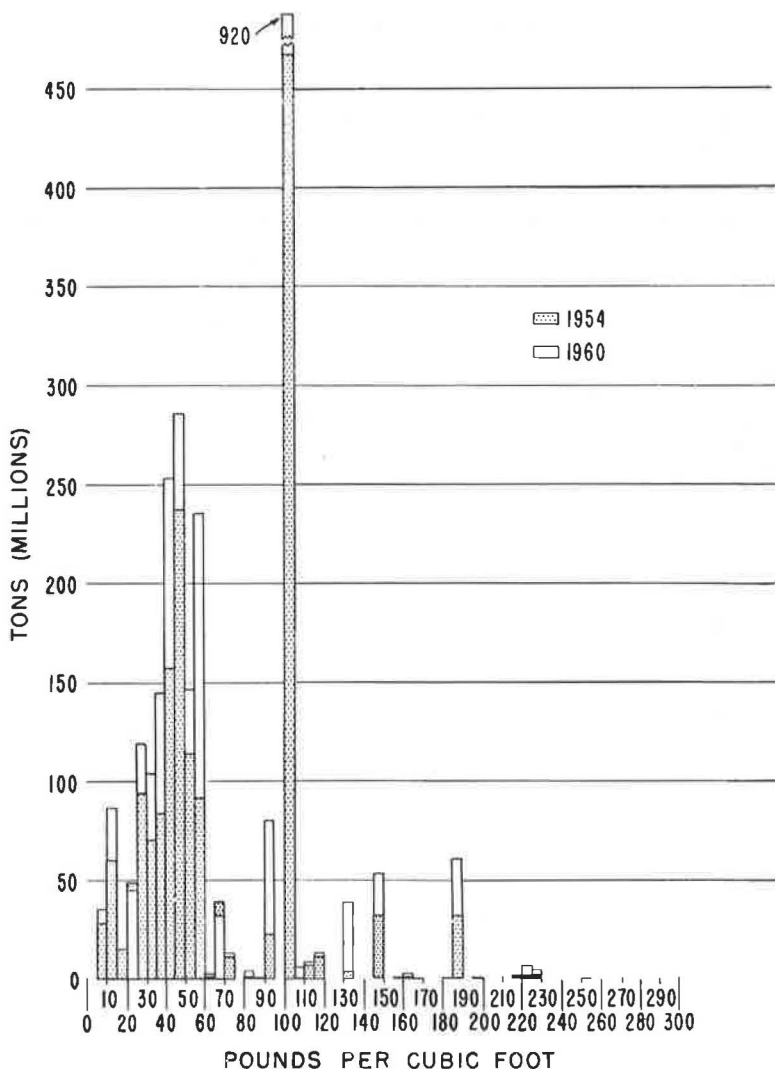


Figure 1. Highway freight tonnage by shipping densities, United States, 1954 and 1960.

limits permit little more than one-tenth of the trailer bodies to be stowed fully loaded, but also that the increase in trailer length from 35 to 40 ft, which has occurred since 1958, can be used to advantage by only 11 percent of trailers hauling commodities of less than 50 pcf.

A considerable part of the increases in 1960 over 1954 (Fig. 1) are due to the increased commodity movements occasioned by both road and building construction work. Movements of gravel, sand and crushed rock increased from 460 to 920 million tons. Commodities in the 50- to 54.9-pcf interval, among which are fuel, road and petroleum residual oils, increased from 91 to 214 million tons. Similarly, there were increases in the weight intervals which include gasoline, cement, manufactured iron and steel and other commodities closely related to road and building construction.

DISTRIBUTIONS OTHER THAN HIGHWAY

The distribution of railroad freight tonnage is shown in Figure 2. Tonnages declined from 1954 to 1960 in the lighter weight intervals from 5 to 25 pcf as shown at the left

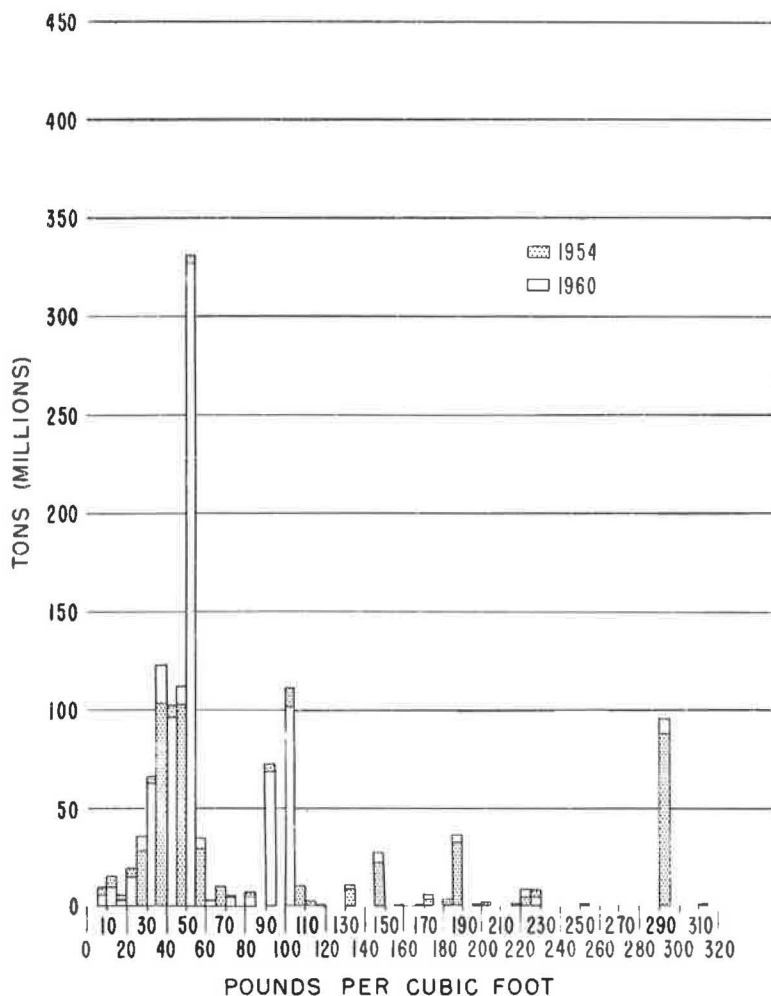


Figure 2. Railway freight tonnage by shipping densities, United States, 1954 and 1960.

of the chart. Tonnages in the 25- to 50-pcf weight intervals increased or remained nearly unchanged. The overall railroad tonnage increased 1.6 percent, from 1,228 million tons in 1954 to 1,248 million tons in 1960.

Inland waterway tonnage declined, partly due to reductions in gasoline, fuel, road and petroleum residual oils hauled. Other tonnages were found to be about the same as between 1954 and 1960, as shown in Figure 3. It should be noted that the combined total of inland waterway and domestic coastline ton-miles exceeds the ton-miles reported for railways, as shown in Table 1.

Pipeline tonnage (Fig. 4) increased from 378,000 tons in 1954 to 452,000 tons in 1960, an increase of 19.6 percent. A new form of pipeline haulage came into being during 1958 but ceased operations in 1963. This was the movement of coal slurry from Cadiz, Ohio, to the Cleveland Electric Illuminating Company in Cleveland, a distance of about 108 miles. In 1963, an adjustment of rates and the formation of dedicated coal trains enabled the transport of coal by railway at costs below those of the pipeline carrier.

An attempt was made to break down the airline tonnage by commodities, as has been done for the other four types of transport. However, airline freight traffic is so diversified and moves in such relatively small tonnages that this breakdown was not

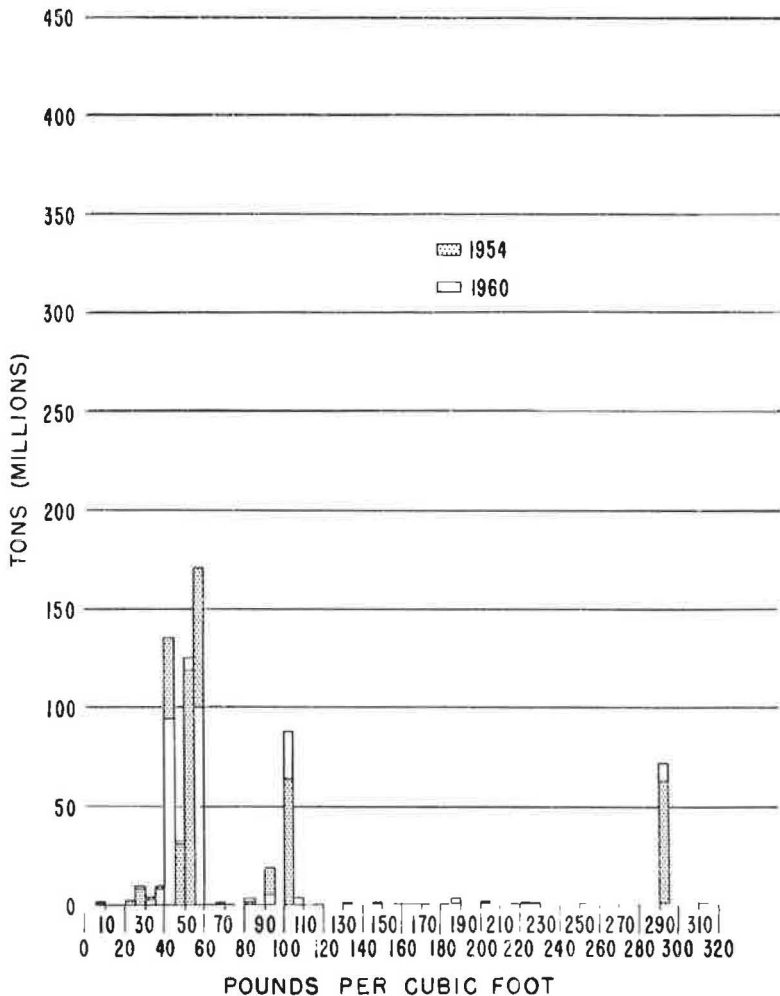


Figure 3. Inland waterway freight tonnage by shipping densities, United States, 1954 and 1960.

deemed feasible. Airline offices were visited and an estimate of 27 pcf was obtained of the weighted average shipping density of airfreight.

SUMMARY OF FINDINGS

1. The data herein presented indicate the proportion of commodities which may be hauled in visibly full loads under existing gross weight limitations. The data may be used to calculate the extent of usage which might be expected under any gross weight limitation.

2. Five-axle van combinations in 1960, to stay within legal limits, operated with less than a visibly full load when hauling commodities of shipping densities 20 pcf or more.

3. Tonnage with shipping densities of less than 20 pcf represented 11.1 percent of the tonnage with shipping densities less than 50 pcf and 5.0 percent of all commodities hauled.

4. Some commodities which have been collapsed by the new ICC code into summary codes have reported tonnages from 1,000,000 to 17,000,000 tons, and appear to warrant separate reporting.

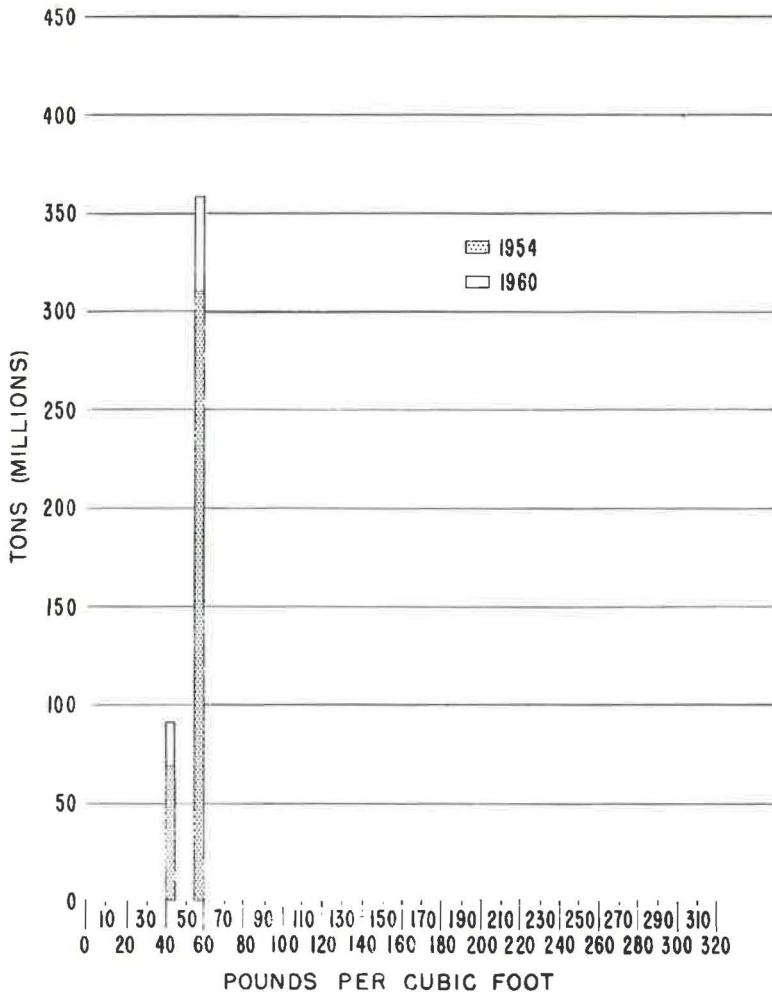


Figure 4. Pipeline freight tonnage by shipping densities, United States, 1954 and 1960.

5. The increase in trailer length from 35 to 40 ft could be used to advantage by 11 percent of the five-axle combinations hauling commodities with shipping densities of less than 50 pcf under gross weight limits presently set for the Interstate Highway System.

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Appendix

COMMODITY TONNAGES

On the following pages is a listing of commodity tonnages produced and transported in the United States by railways, domestic waterways and highways in 1960. The commodities are classified by old and new commodity codes. A new commodity code was issued in 1963 by BOB and was modified by (although compatible with) the ICC. Pipeline and airline commodity statistics are given at the end of the listing. Highway ton-miles are not reported.

Commodity Codes				Commodity Classification	Shpg Density (lb)
Corps Eng'r	Old ICC	New ICC	Bureau of Budget		
FARM PRODUCTS					
300	33	01121	01121	Cotton, in bales	33
	35		01124	Cotton linters, noils, nubs, sweepings	15
		01120		Cotton, raw miscellaneous	15
102P	9P	01131	01131	Barley	40
100	3	01132	01132	Corn	45
104	7	01133	01133	Oats	30
101	11	01134	01134	Rice	44
102P	9P	01135	01135	Rye	45
108	5	01136	01136	Sorghum grains	45
103	1	01137	01137	Wheat	47
	13	01139	01139	Grain n. e. c.	43
231	43	01144	01144	Soybeans	25
	37		01141	Cottonseed	30
232	105		01142	Flax seed	28
	97		01143	Peanuts	22
235			01149	Oil seeds n. e. c.	29
		01140		Oil seeds, misc.	29
260	107		01159	Seeds, field n. e. c.	30
		01150		Seeds, field except oil seeds misc.	30
	29	01193	01193	Tobacco, leaf	21
	85	01195	01195	Potatoes, o/t sweet	35
	101	01197	01197	Sugar beets	42
	25		01191	Hay and forage	14
	103		01192	Hops (malt)	31
	27		01196	Straw	11
	199P		01198	Sugar Cane	27
		01190		Field crops, misc.	16
	59P		01212	Lemons	32
	61P		01214	Oranges (and grapefruit)	35
		01210		Fruits, Citrus	34
	49	01221	01221	Apples	26
	57	01224	01224	Grapes	33
	63P	01226	01226	Peaches	32
	65		01227	Pears	37
	71		01229	Fruits, Deciduous n. e. c.	43
		01220		Fruits, Deciduous	40
	51	01232	01232	Bananas	12
160	75	01295	01295	Coffee, green	29
	53		01291	Berries, cane and bush	20
161	199P		01294	Cocoa beans	29
140			01298	Nuts, edible, in shell except peanuts	29
130	69		01299	Fruits, fresh, n. e. c.	29
		01290		Fruits, fresh, misc. and tree nuts	28
	83	01318	01318	Onions, dry	19

1960 Production (Tons thousands)	Railroad			Inland Waterways			Domestic Coastlines (ton-mi, millions)	Highways (tons, thousands)
	Tons (thousands)	Ton-Miles (millions)	Avg. Haul (mi)	Tons (thousands)	Ton-Miles (millions)	Avg. Haul (mi)		
375,695	127,936	57,067		15,220	12,059		1,688	367,715
5,586	4,236	2,817	665	5	1	150	9	1,350
(789)	(557)	(424)	762					(232)
789	557	424	762					232
8,127	5,953	2,316	389	491	446	909	31	8,127
48,110	21,826	6,460	296	4,572	4,193	917	245	48,110
4,356	2,850	935	328	440	422	958	3	4,356
2,608	1,807	660	365	158	16	100	904	2,608
726	532	207	389	44	40	909	3	726
11,858	9,667	4,292	444	529	230	434	9	11,858
50,326	40,721	13,804	339	5,071	4,559	899	128	50,326
186	112	57	506					186
16,985	9,136	1,644	180	2,264	1,820	804	23	16,985
(5,437)	(173)	(19)	107					(5,264)
(1,079)	(429)	(106)	246	(36)	(30)	831		(1,079)
(864)	(284)	(199)	699					(864)
				(10)	(1)	108	*	
7,380	886	324	364	46	31	674	*	7,207
(1,129)	(236)	(370)	1,567	(3)	*	128	(31)	(1,129)
1,129	236	370	1,567	3	*	128	31	1,129
1,311	633	215	340					1,311
12,860	3,621	4,490	1,240					12,860
16,421	9,888	574	58					16,421
(16,464)	(142)	(82)	574					(16,464)
(1,537)	(1,340)	(60)	45					(1,537)
(17,070)	(63)	(19)	301					(17,070)
(9,047)	(2,698)	(845)	313					(9,047)
44,118	4,243	1,006	237					44,118
(611)	(214)	(577)	2,697					(611)
(7,208)	(826)	(1,610)	1,949					(7,208)
7,819	1,040	2,187	2,103					7,819
2,706	309	696	2,253					2,706
3,030	335	901	2,689					3,030
1,818	118	196	1,665					1,818
(649)	(184)	(442)	2,403					(649)
(741)	(284)	(641)	2,257					(741)
1,390	468	1,083	2,314					1,390
1,425	838	454	542					587
1,462	748	498	666	235	2	8	35	714
(241)	(2)	(4)	1,991					(241)
(516)	(154)	(48)	313	(2)	*	8	(12)	(362)
				(3)	(1)	209	(25)	
(1,178)	(109)	(307)	2,821	(12)	*	34	(148)	(1,178)
1,935	265	359	1,357	17	1	62	185	1,781
1,327	259	479	1,848					1,327

Commodity Codes				Commodity Classification	Shpg Density (lb)
Corps Eng'r	Old ICC	New ICC	Bureau of Budget		
FARM PRODUCTS (cont'd)					
	79	01334	01334	Celery	27
	81	01335	01335	Lettuce	19
	77		01333	Cabbage	20
		01330		Vegetables, leafy fresh	20
	91P	01341	01341	Beans	38
	93		01349	Veg. seeds used as food, dry ripe, n.e.c.	27
		01340		Veg. seeds used as food, dry ripe	27
	67	01392	01392	Watermelons	20
	87	01394	01394	Tomatoes	33
	55	01398	01398	Melons, except watermelons	28
	89		01399	Vegetables, fresh, n.e.c.	26
		01390		Vegetables, fresh, misc.	26
	203P	01411	01411	Cattle	11
	213	01413	01413	Hogs and pigs	10
	207P	01414	01414	Sheep and lambs	7
5			01419	Livestock, n.e.c.	10
		01410		Livestock	10
	233		01429	Diary farm products, n.e.c.	47
		01420		Diary farm products	47
340			01431	Wool	14
	237		01439	Animal fibers, n.e.c.	14
		01430		Animal fibers	14
	233		01519	Poultry, live, n.e.c.	7
		01520		Poultry, live	7
50	227	01521	01521	Eggs, market	26
90	201		01921	Horses, ponies, mules, asses, burros, live	10
95			01929	Animal specialties, n.e.c.	10
		01920		Animal specialties	10
297			01998	Farm products, n.e.c.	12
		01990		Farm products, n.e.c.	12
FOREST PRODUCTS					
200	523P	08423	08423	Latex and allied gums (crude nat. rub.)	36
	417		08422	Gums, crude exc. latex, all'd gums, cr'd rub.	38
		08420		Gums and barks, crude	38
	499		08619	Forest products, n.e.c.	30
		08610		Forest products, misc.	30
FRESH FISH AND OTHER MARINE PRODUCTS					
40	245		09121	Finfish	43
49			09122	Shellfish	43
		09120		Fish and Whale prdts, froz. unpkg. fish	43
94	299P	09131	09131	Shells; oyster, crab, etc.	40
METALLIC ORES					
600	309		10111	Ores, crude direct-shipping	293
		10110		Iron ores	293

1960 Production Tons (thousands)	Railroad			Inland Waterways			Domestic Coastlines (ton-mi, millions)	Highways (tons, thousands)
	Tons (thousands)	Ton-Miles (millions)	Avg. Haul (mi)	Tons (thousands)	Ton-Miles (millions)	Avg. Haul (mi)		
744	328	731	2,228					744
1,801	853	2,086	2,446					1,801
(1,280)	(143)	(227)	1,585					(1,280)
1,280	143	227	1,585					1,280
1,121	912	777	852					1,121
(118)	(57)	(174)	3,055					(118)
118	57	174	3,055					118
1,686	101	122	1,209					1,686
5,117	251	468	1,866					5,117
754	409	1,002	2,449					754
(6,760)	(707)	(1,317)	1,863					(6,760)
6,760	707	1,317	1,863					6,760
18,087	1,793	1,560	870					18,087
9,323	539	616	1,143					9,323
1,041	360	323	898					1,041
(1)				(1)	(*)	5	(6)	
1				1	*	5	6	
(61,412)	(9)	(4)	395					61,412
61,412	9	4	395					61,412
				(2)	*	50	(6)	
(593)	(179)	(200)	1,115					(593)
593	179	200	1,115	2	*	50	6	593
(4,206)	(1)	(1)	842					(4,206)
4,206	1	1	842					4,206
4,565	3	3	1,113		*		17	4,565
(32)	(7)	(8)	1,163					(25)
(1,266)				(1,266)	(295)	233	(35)	
1,298	7	8	1,163	1,266	295	233	35	25
				(76)	(3)	44	(18)	
				76	3	44	18	
10,301	6,040	2,503		4	*		78	10,301
2,466	1,926	1,292	671	4	*	60	78	2,466
(618)	(432)	(247)	572					(618)
618	432	247	572					618
(7,217)	(3,682)	(964)	286					(7,217)
7,217	3,682	964	286					7,217
23,270	48	38		23,136	1,194		84	86
(1,109)	(48)	(38)	794	(975)	(15)	15	(26)	(86)
(859)				(859)	(29)	34	(16)	
1,968	48	38	794	1,834	44	24	42	86
21,302				21,302	1,150	54	42	
305,085	117,760	24,958		72,579	53,918		421	3,446
(133,336)	(96,847)	(14,624)	151	(70,551)	(53,125)	753	(2)	
133,336	96,847	14,624	151	70,551	53,125	753	2	

Commodity Codes				Commodity Classification	Shpg Density (lb)
Corps Eng'r	Old ICC	New ICC	Bureau of Budget		
METALLIC ORES (cont'd)					
620	313		10211	Copper ores, crude	170
		10210		Copper ores	170
640	315		10311	Lead ores, crude	251
		10310		Lead ores	251
670	317		10321	Zinc ores, crude	180
		10320		Zinc ores	180
617	311		10514	Aluminum ores, except bauxite	149
		10510		Bauxite and other aluminum ores	149
	319		10929	Metal ores, n.e.c.	188
		10920		Metal ores, misc.	188
COAL					
501	301	11112	11112	Anthracite, clnd. or predp. (cr. sc. sized)	54
502			11212	Bit. clnd. or prepd. (cr. scrnd. sized)	50
		11210		Bituminous Coal	50
CRUDE PETROLEUM, NATURAL GAS, AND NATURAL GASOLINE					
511	337	13111	13111	Petroleum, crude	55
522	507	13211	13211	Natural gasoline	41
NONMETALLIC MINERALS EXCEPT FUELS					
	335	14111	14111	Stone, dimension quarry	160
	333	14211	14211	Limestone, agricultural	155
551	329	14219	14219	Stone, crushed and brkn. incl., riprap, n.e.c.	100
	331		14214	Limestone, fluxing	93
		14210		Fluxing stone, furn. flux. lmst. and raw dolm.	93
554P	327P	14411	14411	Sand (aggregate and ballast)	100
554P	327P	14412	14412	Gravel (aggregate and ballast)	100
	325	14413	14413	Sand and gravel, industrial	105
540	323		14519	Clay, ceramic and refractory minrl. n.e.c.	130
		14510		Clay, ceramic and refractory minerals	130
	321	14711	14711	Barite	217
855		14713	14713	Potash, soda and borate	40
852	343	14714	14714	Phosphate rock	91
550	345	14716	14716	Sulphur	41
854			14719	Minerals, chem. and fertilizer, n.e.c.	41
		14710		Minerals, chemical and fertilizer	41
555	399		14919	Minerals, nonmet. exc. fuels n.e.c.	40
		14910		Minerals, nonmet. exc. fuels misc.	40
FOOD AND KINDRED PRODUCTS					
10	215		20119	Meat, fresh or chilled, n.e.c.	40
		20110		Meat, fresh or chilled, exc. salted 2/	40
17			20132	Meats and sausage, cooked, cured, smoked etc.	44
13			20134	Meat canned	44
20			20138	Animal oil, tallow, edible	41
55			20139	Meat products, n.e.c.	41
		20130		Meat products 2/	41

1960 Production Tons (thousands)	Railroad			Inland Waterways			Domestic Coastlines (ton-mi, millions)	Highways (tons, thousands)
	Tons (thousands)	Ton-Miles (millions)	Avg. Haul (mi)	Tons (thousands)	Ton-Miles (millions)	Avg. Haul (mi)		
(135,077)	(7,590)	(1,245)	164	(198)	(4)	18	(2)	
135,077	7,590	1,245	164	198	4	18	2	
(6,369)	(941)	(187)	199	(7)	(3)	430	(22)	
6,369	941	187	199	7	3	430	22	
(7,886)	(1,704)	(947)	556	(31)	(49)	1,587	(2)	(1,025)
7,886	1,704	947	556	31	49	1,587	2	1,025
(12,727)	(3,409)	(4,786)	1,404	(1,792)	(737)	411	(393)	
12,727	3,409	4,786	1,404	1,792	737	411	393	
(9,690)	(7,269)	(3,169)	436					(2,421)
9,690	7,269	3,169	436					2,421
421,311	314,400	91,741		125,241	26,193		3,201	131,497
13,006	9,900	2,218	224	633	150	237	*	8,668
407,315)	(304,500)	(89,523)	294	(124,608)	(26,043)	209	3,201	(122,829)
407,315	304,500	89,523	294	124,608	26,043	209	3,201	122,829
500,777	1,888	855		35,251	8,630		60,167	27,996
500,489	1,888	855	453	34,963	8,601	246	59,817	27,996
288				288	29	101	350	
278,385	188,413	32,943		85,562	16,984		6,164	1,043,834
2,257	76	74	971					2,181
2,293	1,866	235	126					427
556,156	50,705	6,186	122	53,418	10,310	193	215	452,033
(35,392)	(16,765)	(2,179)	130					(18,627)
35,392	16,765	2,179	130					18,627
186,843	19,222	1,749	91	9,077	472	52	79	167,621
318,137	32,729	2,979	91	15,456	803	52	134	300,294
18,011	10,583	2,794	264					7,428
(49,422)	(9,376)	(5,391)	575	(2,014)	(93)	46	(16)	(38,032)
49,422	9,376	5,391	575	2,014	93	46	16	38,032
2,384	1,201	435	362					1,183
				5	*	71	118	
61,003	24,321	4,864	200	653	984	1,507	2,212	36,029
6,627	3,278	954	291	2,603	2,546	978	2,628	746
(287)				(287)	(366)	1,275	(268)	
287				287	366	1,275	268	
(39,573)	(18,291)	(5,103)	279	(2,049)	(1,410)	688	(494)	(19,233)
39,573	18,291	5,103	279	2,049	1,410	688	494	19,233
210,654	84,104	54,591		5,834	2,130		13,452	122,049
(24,039)	(3,735)	(4,135)	1,107	(25)	(2)	64	(109)	(20,279)
24,039	3,735	4,135	1,107	25	2	64	109	20,279
							(51)	
(2)				(2)	*	32	(5)	
(31)				(31)	(4)	117	(32)	
				*	*	*	(6)	
33				33	4	111	24	

Commodity Codes				Commodity Classification	Shpg Density (lb)
Corps Eng'r	Old ICC	New ICC	Bureau of Budget		
FOOD AND KINDRED PRODUCTS (cont'd)					
60	239	20141	20141	Hides, skins, and pelts not tan'd (misc.)	41
	299P		20143	Grease and inedible tallow	37
		20140		Animal by-products inedible	37
	225		20151	Chickens, dressed fresh	26
		20150		Poultry dressed, small game fresh misc.	26
	229	20211	20211	Butter, creamery	44
35			20231	Milk products, dry	
33			20233	Milk prdts., evaporated and condensed	
		20230		Milk, condensed, evaporated and dry	
37			20251	Cheese, exc. cottage cheese	
39	231		20259	Spec. dairy prdts. and by-prdts. n.e.c.	38
		20250		Cheese and other spec. dairy prdts.	38
43			20311	Fish, canned et al. exc. soup, st. chowder	46
	763P	20310		Sea Food, canned and cured	46
135			20331	Fruits, canned	46
123			20332	Vegetables, canned	46
	763P		20339	Fruits, veg. by-prdts., canned	46
		20330		Fruits and vegetables, canned	46
133			20341	Fruits, dried and dehyd.	
127			20342	Veg. and soup mix, dried and dehyd.	35
		20340		Fruits, veg. and soup mix, dried and dehyd.	35
137			20359	Sauces and Seasoning, n.e.c.	
		20350		Fruits and veg. pickled, sauces, s. drg. etc.	
45	243		20361	Fish et al. seafood, frozen	38
		20360		Fish, packaged fresh or frozen	38
	765		20371	Fruits, frozen	45
136			20372	Juices and ades	46
120	95		20373	Vegetables, frozen	26
		20370		Fruits, fr. juices, and veg. spec., frozen	36
107	15	20411	20411	Flour, wheat exc. blend and prepared	36
	17		20413	Corn meal and flour exc. anim. and poul. feed	31
109	23		20419	Grain mill products, n.e.c.	40
		20410		Flour and other grain mill products	39
110	773		20423	Feeds, canned for animals and poultry	33
		20420		Feeds, prepared (animals and fowls)	33
	21		20452	Flour, prepared (cake, pie, biscuit, etc.)	25
		20450		Flour, blended and prepared	25
	755P	20461	20461	Corn sirup	55
	767P	20462	20462	Corn starch	38
185	757		20619	Sugar mill products, n.e.c.	55
		20619		Sugar mill products and by-products	55
290		20625	20625	Sugar refining by-products	55
180	759		20629	Sugar, refined, cane and beet, n.e.c.	53
		20620		Sugar, refined, cane and beet	53

1960 Production Tons (thousands)	Railroad			Inland Waterways			Domestic Coastlines (ton-mi, millions)	Highways (tons, thousands)
	Tons (thousands)	Ton-Miles (millions)	Avg. Haul (mi)	Tons (thousands)	Ton-Miles (millions)	Avg. Haul (mi)		
1,008	743	769	1,035	10	1	86	24	255
(3,075)	(1,371)	(587)	428					(1,704)
3,075	1,371	587	428					1,704
(3,751)	(142)	(207)	1,458					(3,609)
3,751	142	207	1,458					3,609
664	305	259	849					359
(4)				(4)	*	84	(21)	
(24)				(24)	(2)	71	(53)	
28				28	2	73	74	
(27)				(27)	(2)	72	(4)	
(756)	(286)	(266)	931	(47)	(3)	63	(53)	(423)
783	286	266	931	74	5	66	57	423
(28)				(28)	(2)	84	(176)	
28				28	2	84	176	
(47)				(47)	(2)	43	(3,222)	
(82)				(82)	(7)	85	(580)	
(33,479)	(12,733)	(13,064)	1,026					(20,746)
33,608	12,733	13,064	1,026	129	9	70	3,802	20,746
				*	*	21	(204)	
(3)				(3)	*	85	(84)	
3				3	*	85	288	
							(214)	
							214	
(1,154)	(46)	(84)	1,822	(2)	*	48	(51)	(1,106)
1,154	46	84	1,822	2	*	48	51	1,106
(1,180)	(590)	(971)	1,645					(590)
				(3)	*	106	(752)	
(979)	(429)	(888)	2,071	(174)	(11)	65	(195)	(376)
2,159	1,019	1,859	1,824	177	11	65	947	966
12,769	10,458	6,400	612	231	134	581	113	2,080
(878)	(391)	(228)	583					(487)
(8,907)	(7,562)	(3,123)	413	(183)	(20)	112	(100)	(1,162)
9,785	7,953	3,351	421	183	20	112	100	1,649
(42,431)	(16,141)	(5,617)	348	(370)	(174)	471	(467)	(25,920)
42,431	16,141	5,617	348	370	174	471	467	25,920
(2,226)	(1,420)	(893)	629					(806)
2,226	1,420	893	629					806
1,061	1,423	1,059	744					
1,242	1,241	864	696					
(4,169)	(1,280)	(549)	429	(24)	(6)	245	(107)	(2,865)
4,169	1,280	549	429	24	6	245	107	2,865
606				606	646	1,066	861	
(9,873)	(6,355)	(3,788)	596	(928)	(612)	659	(4,071)	(2,590)
9,873	6,355	3,788	596	928	612	659	4,071	2,590

Commodity Codes				Commodity Classification	Shpg Density (lb)
Corps Eng'r	Old ICC	New ICC	Bureau of Budget		
FOOD AND KINDRED PRODUCTS (cont'd)					
	761		20711	Candy bars, bulk pkgd.	43
		20710		Candy and other confectionary products	43
	749	20821	20821	Beer, ale, porter, stout, bottled kegs, etc.	43
	747	20841	20841	Wines, brandy and brandy spirits	36
190	745	20851	20851	Liquors, distilled, rectified, blended	36
	535	20859	20859	Distilling liquors, by-prdts. of	37
925	751	20861	20861	Soft Drinks, bot., canned, carbon. min. wtr.	42
195	763P		20871	Flavoring extracts, emulsion compds.	46
		20870		Flavoring, misc. extracts, syps., compds.	46
	511	20911	20911	Cottonseed oil, crude refined	40
	39	20914	20914	Cottonseed, cake, meal, other by-prdts.	38
	515	20921	20921	Soybean Oil, crude, refined	46
	45	20923	20923	Soybean, cake, meal, flour, grits, by-prdts.	38
	513		20931	Linseed Oil, crude, refined	43
	517		20933	Veg. oil exc. cottonseed, soybean, linseed	39
240	47		20939	Veg. oil, seed cake, meal n.e.c.	40
		20930		Veg. and nut oils and by-prdts. exc. ctn. soy.	40
	521		20952	Marine oil mill-meal scrip by-prdts.	38
		20950		Marine fats and oils	38
	221		20963	Margarine	43
150	519		20969	Oils, salad and cooking exc. corn oil n.e.c.	43
		20960		Shortening, table oils et al. fats n.e.c.	43
926	753	20971	20971	Ice, natural or mfg.	57
170	199		20997	Spices	28
165			20998	Tea, including instant tea	46
199			20999	Food preparations, n.e.c.	46
		20990		Food preparations, misc.	46
TOBACCO PRODUCTS					
285	777	21111	21111	Cigarettes	22
280	775		21411	Tobacco, stemmed and redried	25
		21410		Tobacco, stemmed and redried	25
BASIC TEXTILES					
310	727P		22119	Fabric, cotton broad, woven n.e.c.	19
381	731		22211	Fabrics, man-made, fiber broad woven	19
350	733P		22311	Fabrics, wool broad woven	21
		22000		Woven fabrics	19
	713P		22799	Carpets, rugs, and mats n.e.c.	21
		22700		Carpet, rug, and textile	21
328			22991	Fabrics, bonded, nonwoven, fibre	28
331	723P		22992	Jute goods, exc. bags	28
335	733		22999	Textiles, basic n.e.c.	21
		22900		Textiles, basic misc.	21
	731	22961	22961	Tire cord and fabrics	26
326	735P		22981	Cordage, twine, hard fiber	27

1960 Production Tons (thousands)	Railroad			Inland Waterways			Domestic Coastlines (ton-mi, millions)	Highways (Tons, thousands)
	Tons (thousands)	Ton-Miles (millions)	Avg. Haul (mi)	Tons (thousands)	Ton-Miles (millions)	Avg. Haul (mi)		
(1, 937)	(457)	(555)	1,215					(1, 480)
1, 937	457	555	1,215					1, 480
11, 507	3, 201	2, 177	680					8, 306
1, 193	530	1, 125	2, 123					663
1, 503	684	662	968	104	39	372	825	715
4, 077	980	712	727					3, 097
10, 604	364	41	114	1, 840	35	19	*	8, 400
(28)				(28)	(5)	174	(12)	
28				28	5	174	12	
1, 883	900	482	536					983
3, 655	816	269	330					2, 839
4, 665	1, 661	1, 055	635					3, 004
9, 436	6, 126	2, 604	425					3, 310
(304)	(175)	(146)	836					(129)
(1, 547)	(568)	(544)	957					(979)
(646)	(359)	(136)	380	(647)	(384)	593	(117)	(287)
2, 497	1, 102	826	750	647	384	593	117	1, 395
(139)	(107)	(90)	841					(32)
139	107	90	841					32
(849)	(40)	(37)	924					(809)
(542)	(297)	(192)	645	(66)	(24)	364	(84)	(245)
1, 391	337	229	924	66	24	364	84	1, 054
1, 602	188	13	67	256	12	45	*	1, 414
							(2)	
(1)				(1)	*	132	*	
(41)				(41)	(3)	77	(857)	
42				42	3	78	859	
939	491	608		1	*		119	448
738	464	579	1, 248				91	274
(201)	(27)	(29)	1, 058	(1)	*	20	(28)	(174)
201	27	29	1, 058	1	*	20	28	174
6, 796	772	764		40	23		109	5, 984
(3, 100)	(203)	(180)	888	(8)	*	43	(1)	(2, 889)
(1)				(1)	*	175	(9)	
							(8)	
3, 101	203	180	888	9	*	58	18	2, 889
(891)	(293)	(355)	1, 213					(598)
891	293	355	1, 213					598
(2)				(2)	*		(1)	
(8)				(8)	(3)	318	(12)	
(623)	(75)	(87)	1, 155	(20)	(20)	982	(77)	(528)
633	75	87	1, 155	30	23	792	90	528
1, 699	138	91	658					1, 561
(472)	(63)	(51)	806	(1)	*	6	(1)	(408)

Commodity Codes				Commodity Classification	Shpg Density (lb)
Corps Eng'r	Old ICC	New ICC	Bureau of Budget		
BASIC TEXTILES (cont'd)					
			22980	Cordage and twine	27
APPAREL AND OTHER FINISHED TEXTILE PRDTS. INCLUDING KNIT.					
	725		23031	Textile bags	36
	723		23949	Canvas products n.e.c.	31
320	729		23999	Textile prdts. fabricated n.e.c.	16
		23900		Textile prdts. fabricated, misc.	27
LUMBER AND WOOD PRDTS. EXCEPT FURNITURE					
440	409	24114	24114	Pulpwood logs	38
405	403	24116	24116	Woodposts, poles and piling	40
400	401		24111	Sawlogs	40
417	407		24112	Ties, hewn railroad and mine	50
401	401P		24113	Logs and bolts, short	45
	405		24117	Fuelwood and cordwood	40
408			24119	Primary forest prdts. n.e.c.	30
		24110		Primary forest prdts. logs etc.	45
	411		24211	Lumber	31
	679		24219	Lumber, n.e.c.	18
		24210		Lumber and dimension stock	30
413	413		24299	Sawmill and planing mill prdts. n.e.c.	31
		24290		Sawmill and planing mill prdts. shing. misc.	31
	677		24319	Millwork prdts., n.e.c.	13
		24310		Millwork	13
	415	24321	24321	Veneer and plywood	30
	681		24332	Buildings, prefab. wood	18
		24330		Buildings, prefab. wd. and structural members	18
416	781		24419	Containers and acces., wooden n.e.c.	7
		24410		Containers, wooden	7
430			24941	Cork products	27
421	703		24999	Wood prdts., n.e.c.	21
		24900		Wood prdts., misc.	21
FURNITURE AND FIXTURE					
	715P		25199	Furniture, household and office n.e.c.	8
		25100		Furniture, household and office	8
PULP, PAPER, AND ALLIED PRODUCTS					
441	653	26111	26111	Pulp	24
445	655	26112	26112	Pulp mill by-products	14
450	637	26211	26211	Newsprint	37
	661	26216	26216	Paper, coarse, incl. wrap. paper	41
457	659P		26219	Paper, exc. bldg. paper n.e.c.	40
		26210		Paper, exc. bldg. paper	40
	669	26311	26311	Paperbd, pulpbd, fiberbd, exc. insulbd.	25
	551		26459	Die cut paper and paperbd. prdts. cdbd. n.e.c.	20
	665		26499	Converted paper and paperbd. prdts. n.e.c.	20
		26400		Converted paper and paperbd. prdts.	20

1960 Production Tons (thousands)	Railroad			Inland Waterways			Domestic Coastlines (ton-mi, millions)	Highways (tons, thousands)
	Tons (thousands)	Ton-Miles (millions)	Avg. Haul (mi)	Tons (thousands)	Ton-Miles (millions)	Avg. Haul (mi)		
472	63	51	806	1	*	6	1	408
1,167	395	327		4	*		78	768
(214)	(31)	(15)	481					(183)
(609)	(135)	(102)	752					(474)
(344)	(229)	(210)	918	(4)	*	51	(78)	(111)
1,167	395	327	846	4	*	51	78	768
287,229	81,720	49,038		24,637	957		10,332	181,551
75,120	43,733	5,904	135	2,189	210	96	1	29,198
16,588	2,717	1,364	502	172	10	57	72	13,699
				658	(39)	59	*	
(1,822)	(1,103)	(251)	228	(15)	(2)	160	(10)	(704)
(101,165)	(6,268)	(627)	100	(19,943)	(618)	31	(266)	(74,954)
(11,861)	(86)	(19)	217					(11,775)
(588)				(588)	(19)	33	(8)	
115,436	7,457	897	120	21,204	678	32	284	87,433
(52,422)	(21,047)	(29,950)	1,423					(31,375)
(6,015)	(83)	(76)	915					(5,932)
58,437	21,130	30,026	1,421					37,307
(3,201)	(852)	(538)	632	(989)	(53)	54	(9,855)	(1,360)
3,201	852	538	632	989	53	54	9,855	1,360
(2,487)	(544)	(765)	1,407					(1,943)
2,487	544	765	1,407					1,943
11,788	5,050	9,358	1,853					6,738
(1,318)	(43)	(34)	785					(1,275)
1,318	43	34	785					1,275
(2,288)	(106)	(48)	449	(21)	(2)	80	(53)	(2,182)
2,288	106	48	449	21	2	80	53	2,182
(6)				(6)	*	12	*	
(560)	(88)	(104)	1,186	(56)	(4)	71	(67)	(416)
566	88	104	1,186	62	4	65	67	416
5,715	1,174	1,149						4,541
(5,715)	(1,174)	(1,149)	979					(4,541)
5,715	1,174	1,149	979					4,541
98,689	41,360	27,614		2,434	446		1,405	57,849
27,481	5,891	4,943	839	526	102	193	663	21,064
7				7	1	96	7	
7,420	5,053	3,128	619	218	72	328	29	2,149
3,984	2,094	1,571	750					1,890
(4,737)	(4,075)	(2,804)	688	(1,683)	(271)	161	(706)	(1,933)
4,737	4,075	2,804	688	1,683	271	161	706	1,933
15,903	8,640	6,566	760					7,263
(75)	(64)	(63)	977					(11)
(5,525)	(2,762)	(1,856)	672					(2,763)
5,600	2,826	1,919	679					2,774

Commodity Codes				Commodity Classification	Shpg Density (lb)
Corps Eng'r	Old ICC	New ICC	Bureau of Budget		
PULP, PAPER, AND ALLIED PRDTS. (cont'd)					
	663		26439	Bags, paper, n.e.c.	22
		26430		Bags, paper	22
	783		26511	Boxes, containers, papbd., pulpbd., fiberbd.	20
	785		26559	Cans, tubes, fiber and sim. prdts., n.e.c.	6
		26500		Cont. and boxes, paperbd., fiberbd., pulpboard	18
	671	26613	26613	Hardboard, incl. wallboard	32
	673		26611	Board, insulating	57
	675		26619	Bldg. paper and bldg. board, n.e.c.	57
		26610		Bldg. board and bldg. paper	57
PRINTED MATTER					
	667		27419	Printed matter, n.e.c.	39
		27000		Printed matter	39
CHEMICAL AND ALLIED PRODUCTS					
827	533	28123	28123	Sodium comp. exc. sodium alkalies	45
	509		28139	Gases, industrial, n.e.c.	67
		28130		Gases, indust. (compressed liquefied)	67
826			28186	Cyclic chem. prdt. misc.	39
250			28188	Gases, chem. warfare	39
	545		28189	Chemicals, indust. organic	39
		28100		Dyes and cyclic intermediates, pigments	39
801			28141	Coal tar and prdts. crude exc. road tar	46
802			28143	Tar acids, coal inc. rel. prdt. o pet. raw	39
805			28149	Crude prdt. from c. tar, pet. nat. gas. n.e.c.	55
		28140		Crude prdt. from c. tar, pet. nat'l gas	55
	537		28169	Pigments, inorganic, n.e.c.	44
		28160		Pigments, inorganic	44
825	529	28193	28193	Acid, sulphuric	59
	531		28194	Acids, inorganic exc. nitric and sulphuric	37
829			28199	Chem. inorganic industrial, n.e.c.	37
		28190		Chem. inorganic industrial, misc.	37
201	523P	28212	28212	Rubber, synthetic	40
210	549		28211	Plastics materials, syn. resins, etc.	22
		28210		Plas. mat. resins., syn. rub. and fib. syn.	22
220			28331	Med. and Botanical drgs. uncompd. for humans	35
810	553		28342	Pharm. preparations for human use	35
		28300		Drugs, med. chem. bot. prod. phar. prep's.	35
	769		28419	Soap and detergents except syn. deter.	41
		28410		Soap et al. deterg. exc. spec. cleaners	41
848	547		28511	Paints, varnishes, laquers, enamels	50
518			28512	Thinners, solvents, and rel. prdts.	35
		28500		Paints, varnishes, lacq., enaml. and allid. prdts.	50
851	539	28711	28711	Fertilizers	37
	541		28799	Agricul. chem. n.e.c.	36
		28700		Pesticides et al. syn. organ. ag. chem.	36

1960 Production Tons (thousands)	Railroad			Inland Waterways			Domestic Coastlines (ton-mi, millions)	Highways (Tons, thousands)
	Tons (thousands)	Ton-Miles (millions)	Avg. Haul (mi)	Tons (thousands)	Ton-Miles (millions)	Avg. Haul (mi)		
(2, 130)	(1, 146)	(887)	774					(984)
2, 130	1, 146	887	774					984
11, 436	(1, 260)	(634)	503					(10, 176)
(1, 983)	(576)	(338)	586					(1, 407)
13, 419	1, 836	972	529					11, 583
8, 871	6, 651	3, 192	480					2, 220
(7, 299)	(2, 387)	(1, 134)	475					(4, 912)
(1, 838)	(761)	(498)	654					(1, 077)
9, 137	3, 148	1, 632	530					5, 989
2, 031	540	689						1, 491
(2, 031)	(540)	(689)	1, 275					(1, 491)
2, 031	540	689	1, 275					1, 491
58, 773	55, 363	29, 890		11, 109	6, 664		10, 812	92, 301
19, 438	9, 512	4, 452	468	1, 196	481	402	1, 063	8, 730
(9, 834)	(3, 395)	(1, 514)	446					(6, 439)
9, 834	3, 395	1, 514	446					6, 439
(973)				(973)	(929)	955	(1, 456)	
(1)				(1)	(1)	1, 416	(1)	
(156)	(61)	(25)	403					(95)
1, 130	61	25	403	974	930	955	1, 457	95
(561)				(561)	(243)	434	(127)	
(761)				(761)	(335)	440	(154)	
(875)				(875)	(698)	798	(1, 096)	
2, 197				2, 197	1, 276	581	1, 377	
(994)	(691)	(609)	881					(303)
994	691	609	881					303
17, 932	2, 834	558	197	1, 885	138	73	19	13, 213
(7, 633)	(1, 445)	(961)	665					(6, 188)
(3, 107)				(3, 107)	(2, 361)	760	(3, 713)	
10, 740	1, 445	961	665	3, 107	2, 361	760	3, 713	6, 188
61				61	98	1, 609	119	
(3, 199)	(1, 100)	(1, 011)	919	(53)	(95)	1, 795	(22)	(2, 046)
3, 199	1, 100	1, 011	919	53	95	1, 795	22	2, 046
1				(1)	*	80	(1)	
(1, 580)	(195)	(332)	1, 701	(1)	*	77	(59)	(1, 384)
1, 580	195	332	1, 701	2	*	79	60	1, 384
(2, 786)	(1, 191)	(802)	673					(1, 595)
2, 786	1, 191	802	673					1, 595
(5, 341)	(1, 053)	(822)	781	(61)	(85)	1, 398	(144)	(4, 227)
(642)				(642)	(523)	814	(2, 191)	
5, 983	1, 053	822	781	703	608	865	2, 335	4, 227
55, 014	19, 491	10, 720	550	690	661	958	511	34, 833
(1, 047)	(172)	(144)	837					(875)
1, 047	172	144	837					875

Commodity Codes				Commodity Classification	Shpg Density (lb)
Corps Eng'r	Old ICC	New ICC	Bureau of Budget		
CHEMICAL AND ALLIED PRODUCTS (cont'd)					
	341	28991	28991	Salt	50
860	527		28999	Chemical products n.e.c.	45
		28990		Chemical products misc.	45
PETROLEUM AND COAL PRODUCTS					
507	501	29111	29111	Gas. jet. et al. vol. pet. fuels exc. nat. gas.	44
510	503	29112	29112	Kerosene, dist. and resid. fuel oil etc.	55
519	505P	29114	29114	Lubricating and sim. oils derivatives	40
516	339	29116	29116	Asphalt, tar, pitches	44
504	307	29117	29117	Petro., coke, breeze, carbon	35
520		29119	29119	Prdts. of petro. refining, n.e.c. 1216	40
503	799		29911	Coke and coal briquettes	40
		29910		Petro. and coal prdts., misc.	
RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS					
203		30311	30311	Rubber, reclaimed	24
207	525		30619	Fabricated rubber n.e.c. prdts.	24
		30000		Rubber ftwear and misc. fab. rubber prdts.	24
205	627P		30111	Tires, pneumatic	15
		30110		Tires and inner tubes	15
LEATHER AND LEATHER PRDTS.					
	737P		31312	Boot and shoe findings	20
	739P		31611	Luggage	7
65	241		31999	Leather goods, n.e.c.	25
		31000		Leather and leather goods	22
STONE, CLAY, AND GLASS PRODUCTS					
530	693P		32119	Glass, flat, n.e.c.	71
		32110		Glass, flat	71
	697	32211	32211	Containers, caps, covers, glass	14
	695		32299	Glass prdts. exc. flat gl. and gl. cont. n.e.c.	14
		32290		Glass prdts. exc. flat gl and gl. cont.	14
523	633	32411	32411	Cement, hyd. portld., nat. mas. pozzolan	94
	635	32412	32412	Cement, ready mix and dry concrete	73
	637	32511	32511	Brick, exc. ceramic, glaze, and refract. brk.	119
543	639	32512	32512	Brick, glazed and struct, hollow tile	70
	641P		32551	Refractories, clay	111
		32550		Refractories, clay and nonclay	111
547	649P		32599	Clay prdts., structural n.e.c.	28
		32590		Clay prdts., structural misc.	28
	689P		32611	Plumbing fixtures, vitreous and semi-vit.	17
		32600		Plumbing Fixtures, vit. china and bath fixt's	17
	701	32621	32621	Vit. China and earthenware, tble and kit. art.	20
	643P		32719	Concrete prdts. n.e.c.	110
		32710		Concrete products misc.	110
	645	32741	32741	Lime	57
548			32752	Gypsum products, exc. bldg. materials	

1960 Production (Tons thousands)	Railroad			Inland Waterways			Domestic Coastlines (ton-mi, millions)	Highways (Tons, thousands)
	Tons (thousands)	Ton-Miles (millions)	Avg. Haul (mi)	Tons (thousands)	Ton-Miles (millions)	Avg. Haul (mi)		
11,625	5,244	2,140	408					6,381
15,212	(8,979)	(5,800)	646	(241)	(16)	68	(136)	(5,992)
15,212	8,979	5,800	646	241	16	68	136	5,992
33,154	48,197	18,112		114,867	26,094		193,395	303,552
38,981	7,531	1,273	169	47,009	13,257	282	73,401	91,979
78,274	17,018	8,608	506	62,522	9,816	157	111,483	173,169
10,826	2,981	1,672	561	1,663	1,483	892	5,183	7,671
24,323	4,214	1,870	444	2,007	1,070	533	1,959	18,102
29,518	16,543	4,689	285	434	174	402	24	12,631
1,216				1,216	289	238	1,345	
(16)				(16)	(5)	287	*	
16				16	5	287	*	
2,987	1,484	1,087		20	1		45	1,438
1				1	*	59	3	
(600)	(104)	(78)	747	(7)	*	71	(15)	(489)
600	104	78	747	7	*	71	15	489
(2,386)	(1,380)	(1,009)	731	(12)	(12)	66	(27)	(994)
2,386	1,380	1,009	731	12	1	66	27	994
869	102	108		2	*		29	765
(453)	(60)	(70)	1,160					(393)
(29)	(9)	(12)	1,307					(20)
(387)	(33)	(26)	784	(2)	*	94	(29)	(352)
869	102	108	1,051	2	*	94	29	765
40,422	44,291	11,795		6,393	1,511		1,543	90,206
(2,626)	(656)	(470)	716	(59)	(8)	142	(94)	(1,911)
2,626	656	470	716	59	8	142	94	1,911
8,834	2,052	903	440					6,782
(1,176)	(372)	(304)	817					(804)
1,176	372	304	817					804
54,948	28,140	4,080	145	4,657	1,043	224	1,295	27,151
7,017	841	660	785					6,176
14,449	658	278	422					13,791
8,251	3,091	1,382	447	468	77	165	106	5,160
(6,351)	(1,878)	(1,179)	628					(4,473)
6,351	1,878	1,179	628					4,473
(9,496)	(211)	(116)	548	(4)	(1)	158	(28)	(9,281)
9,496	211	116	548	4	1	158	28	9,281
(778)	(181)	(233)	1,288					(597)
778	181	233	1,288					597
395	51	59	1,165					344
(2,897)	(236)	(119)	504					(2,661)
2,897	236	119	504					2,661
2,983	4,302	1,286	299					
(922)				(922)	(353)	383	(4)	8,681

Commodity Codes				Commodity Classification	Shpg Density (lb)
Corps Eng'r	Old ICC	New ICC	Bureau of Budget		
STONE, CLAY AND GLASS PRODUCTS (cont'd)					
		32750		Gypsum products	
526			32810	Cut stone and stone products. n.e.c.	160
		32810		Cut stone and stone products	160
	721P		32919	Abrasive Prdt., n.e.c.	37
		32910		Abrasive products	37
	683		32929	Asbestos prdts., n.e.c.	52
	651		32959	Minerals and earth, other (grnd or otw. treat)	86
	647P		32994	Stucco	59
		32900		Min. prdts., asbes., abrasives, misc. Nonmet.	65
PRIMARY METAL PRODUCTS					
601	573	33111	33111	Pig iron	224
556	793	33112	33112	Slag	66
603	583P	33121	33121	Steel, ingot and semifinished shaped 1117	225
	577		33124	Steel bars, bar shapes rods	225
608			33126	Steel pipe and tube	
	609		33128	Railway trk. mat. (rails, crties, etc. rel. mat)	180
609	575		33129	Iron and steel, primary n.e.c.	223
		33120		Iron and st. pri. (exc. coke oven by-prdts)	223
613			33131	Ferromanganese	100
614			33132	Ferrochrome	138
615	569P		33139	Electrometallurgical, n.e.c.	184
		33130		Electrometallurgical products	184
	581		33152	St. nails and spikes (exc. rail. brads, st. tks)	61
		33150		Wire, nails, and spikes, steel	61
	587	33211	33211	Cast pipe fittings, iron and steel	80
605	585	33219	33219	Castings, iron and steel	58
632	559		33311	Copper, pri. pig slab or ingots, etc.	198
		33310		Copper smelter prdts., primary	198
672	563P		33331	Zinc smel. prdt. speltzer pig, slab, etc. 90	225
		33330		Zinc, pri. and zinc base alloys smelter prod.	225
	555		33341	Aluminum, pri, pig, slab, ing, billets, etc	82
		33340		Alum., pri, smelter products	82
	567		33391	Magnes and mag. base alloys, pig, ingot, etc.	108
662			33395	Tin and tin b. alloys, pig, etc. (ex. sold. bab.)	108
	563		33399	Base alloys non-feer, slag, pig n.e.c.	314
		33390		Base alloys n.f. anodes, cathodes, pig, misc.	310
622	561		33519	Cop. br. bronz. et al cop. b. alloy n.e.c.	130
		33510		Cop. br. bronz. et al cop. b. all (basic shap)	130
618	557		33529	Alum and al. b. alloy basic shapes n.e.c.	57
		33520		Al. and al. b. alloy basic shap. exc. al. foil	57
642			33562	Lead and ld. base all. ba. shapes (exc. sold. bab)	160
652			33563	Nickel and nickel base alloy, basic shapes 3	160
682	571		33569	Nonferrous (metal basic shapes) n.e.c.	180
		33560		Shapes, basic, n.f. metal, plates bars, etc.	180

1960 Production (Tons thousands)	Railroad			Inland Waterways			Domestic Coastlines (ton-mi, millions)	Highways (Tons, thousands)
	Tons (thousands)	Ton-Miles (millions)	Avg. Haul (mi)	Tons (thousands)	Ton-Miles (millions)	Avg. Haul (mi)		
922				922	353	383	4	
(283)				(283)	(29)	102	(16)	
283				283	29	102	16	
(369)	(108)	(81)	746					(261)
369	108	81	746					261
(169)	(9)	(17)	1,872					(160)
(812)	(141)	(51)	361					(671)
2,666	(1,364)	(577)	423					(1,302)
3,647	1,514	645	426					2,133
8,448	37,603	16,237		9,993	6,551		7,108	59,618
5,943	3,357	890	265	932	426	457	42	2,305
8,798	6,086	797	131	1,190	156	131	*	22,712
1,117				1,117	207	185	70	
0,069	(4,902)	(1,214)	247					(15,167)
1,798				(1,798)	(1,519)	845	(1,249)	
1,383	(696)	(363)	522					(687)
7,647	(6,438)	(966)	150	(3,667)	(3,330)	908	(5,024)	(4,326)
0,897	12,036	2,543	211	5,465	4,849	887	6,273	20,180
(186)				(186)	(219)	1,178	*	
(171)				(171)	(221)	1,293		
2,219	(1,241)	(735)	592	(116)	(92)	797	(1)	(862)
2,576	1,241	735	592	473	532	1,126	1	862
4,403	(1,467)	(898)	612					(2,936)
4,403	1,467	898	612					2,936
9,365	5,955	3,805	639					3,410
2,144	746	560	751	141	59	417	14	1,398
1,882	(1,529)	(1,639)	1,072	(1)	(1)	666	(24)	(352)
1,882	1,529	1,639	1,072	1	1	666	24	352
(90)				(90)	(134)	1,488	(43)	
90				90	134	1,488	43	
2,380	(1,270)	(1,245)	980					(1,110)
2,380	1,270	1,245	1,443					1,110
(50)	(23)	(33)	1,443					(27)
(6)				(6)	(7)	1,140	(14)	
2,249	(1,417)	(1,134)	800					(832)
2,305	1,440	1,167	810	6	7	1,140	14	859
2,975	(975)	(1,203)	1,234	(179)	(17)	94	(1)	(1,821)
2,975	975	1,203	1,234	179	17	94	1	1,821
1,937	(527)	(604)	1,146	(28)	(37)	1,332	(20)	(1,382)
1,937	527	604	1,146	28	37	1,332	20	1,382
(34)				(34)	(22)	637	(82)	
(3)				(3)	(1)	382	(6)	
1,281	(974)	(151)	155	(16)	(7)	454	(37)	(291)
1,318	974	151	155	53	30	567	125	291

Commodity Codes				Commodity Classification	Shpg Density (lb)
Corps Eng'r	Old ICC	New ICC	Bureau of Budget		
PRIMARY METAL PRODUCTS (cont'd)					
624		33621	33621	Castings, vr, bronz. cop. and cop. base, all. 144	180
612			33999	Metal prdts. primary n.e.c.	180
		33990		Metal prdts. primary	180
FABRICATED METAL PRDTS, EXCEPT ORDNANCE, MACH. & TRANSPORTATION EQUIP.					
	779	34111	34111	Cans, metal	9
	705		34211	Cutlery, tb. and kit. and rel. cut. app. exc. elec.	12
606	691P		34299	Hardware, n.e.c.	67
		34200		Metal prdts. fab. exc. ordn. mach. and trans.	60
	687		34321	Plumb. fixt. fittings, and trim (brass gds)	26
		34300		Plumb. fixt., and heat. appar. exc. electric	26
607	705P		34612	Utensils spun and stmpd, cooking, it. ect.	26
		34000		Met. stampings and wire prdts. fab. misc.	26
	589P		34435	Tanks, metal exc. pressure tanks	14
		34430		Plate prdts. fabricated (boiler shop prdts.)	14
	583		34999	Metal prdts., fabricated n.e.c.	189
		34900		Metal prdts., fabricated	189
MACHINE, EXCEPT ELECTRICAL					
710	595P		35112	Turbines, st. gas, hydr. and gen. set unit and pts.	
		35100		Stm. eng. turbines, turbine generator sets	
770	591P		35229	Farm machines, n.e.c.	24
		35220		Farm mach. and equip.	24
722	595P		35319	Construct. mach., equip, n.e.c.	34
		35310		Construct. machinery equipment	34
730	595P		35419	Mach. tools, metal cutting type, n.e.c.	51
		35400		Metalworking mach. and equipment	51
740	595P		35521	Machinery, textile	34
		35500		Ind. machinery, special exc. metal wkng. mch	34
742	595P		35699	Machinery and equip., gen'l n.e.c.	34
		35600		Machinery and equip. gen'l indust.	34
	601		35799	Machines, office, n.e.c.	20
		35700		Mach., office, computing, and accounting	20
	595P		35999	Machine and parts exc. electric n.e.c.	38
		35990		Machinery and parts exc. electric misc.	38
ELECTRICAL MACHINERY EQUIPMENT AND SUPPLIES					
	685P		36299	Electrical apparatus, industrial n.e.c.	38
		36000		Elect. Trans. equip. and indus. apparatus	38
	711	36311	36311	Ranges, oven, surface ch. eq. and pts. household	12
	707	36321	36321	Refrig. household and home, and freezers, farm	12
	709P		36331	Wash. mach., dryers, combinations, household	15
		36330		Household laundry equip.	15
700	685P		36999	Electr. machy. equip. and supplies n.e.c.	38
		36900		Elect. mach. equip. and supplies misc.	38
TRANSPORTATION EQUIPMENT					
	621P		37115	Passenger cars, knocked down or chassis	31

1960 Production Tons (thousands)	Railroad			Inland Waterways			Domestic Coastlines (ton-mi, millions)	Highways (Tons, thousands)
	Tons (thousands)	Ton-Miles (millions)	Avg. Haul (mi)	Tons (thousands)	Ton-Miles (millions)	Avg. Haul (mi)		
144				144	12	82	52	
(174)				(174)	(84)	483	(429)	
174				174	84	483	429	
02,167	31,283	13,353		12	3		96	70,872
5,805	1,631	587	360					4,174
(230)	(48)	(68)	1,407					(182)
(1,601)	(60)	(59)	979	(6)	(2)	410	(91)	(1,535)
1,831	180	127	1,169	6	2	410	91	1,717
(1,302)	(297)	(310)	1,044					(1,005)
1,302	297	310	1,044					1,005
(6)				(6)	(1)	107	(5)	
6				6	1	107	5	
(6,137)	(216)	(165)	764					(5,921)
6,137	216	165	764					5,921
(87,086)	(29,031)	(12,164)	419					(58,055)
87,086	29,031	12,164	419					58,055
13,918	3,565	2,988		331	43		245	10,316
(3)				(3)	*	84	(13)	
3				3	*	84	(13)	
(1,910)	(651)	(481)	739	(27)	(3)	103	(13)	(1,232)
1,910	651	481	739	27	3	103	13	1,232
(155)				(155)	(17)	108	(95)	
155				155	17	108	95	
(1,046)	(26)	(36)	1,403	(1)	*	105	(1)	(1,019)
1,046	26	36	1,403	1	*	105	1	1,019
(2)							(2)	
2							2	
(145)				(145)	(23)	160	(121)	
145				145	23	160	121	
(296)	(5)	(3)	691					(291)
296	5	3	691					291
(10,361)	(2,883)	(2,468)	856					(7,774)
10,361	2,883	2,468	856					7,774
11,481	2,730	2,503		65	8		386	8,686
(7,342)	(1,023)	(983)	961					(6,319)
7,342	1,023	983	961					6,319
414	261	247	948					153
2,542	876	807	921					1,666
(1,118)	(570)	(466)	818					(548)
1,118	570	466	818					548
(65)				(65)	(8)	128	(386)	
65				65	8	128	386	
45,960	14,860	9,992		907	133		374	30,193
(4,173)	(203)	(44)	219					(3,970)

Commodity Codes				Commodity Classification	Shpg Density (lb)
Corps Eng'r	Old ICC	New ICC	Bureau of Budget		
TRANSPORTATION EQUIPMENT (cont'd)					
	615		37116	Trucks, tr. trac. mtr. coaches FD kn chassis	5
780	617		37119	Vehicles, motor n.e.c.	19
		37110		Vehicles, motor	16
	613	37121	37121	Bodies and body parts, passenger cars	6
	611		37131	Bodies and body parts, truck	9
		37130		Bodies and body parts, truck and bus	9
782	723		37141	Mot. veh. parts, ex. gear fr. and int. comb. eng.	41
		37140		Parts and accessories, motor vehicles	41
790	625P		37299	Parts and aux. equip. aircraft n.e.c.	5
		37200		Aircraft and parts	5
783	799P		37329	Ships, boats, and parts, n.e.c.	
		37320		Ships and boats	
786	603P		37411	Locomotives and tenders	60
		37410		Locomotives and parts	60
	605		37423	Streetcars and self propelled cars railway	60
		37420		Railroad and streetcars	60
	607P	37428	37428	Railroad and stcars, parts and accessories for	165
796			37999	Transportation equip. n.e.c.	
		37900		Transport. equip. misc.	
MISCELLANEOUS PRODUCTS OF MANUFACTURING					
900	799		39999	Mfg. prdts., misc. n.e.c.	27
		39000		Mfg. products misc.	27
	743		39411	Games and toys, exc. dolls and child vehicles	7
		39400		Games, toys, dolls, chile. veh. exc. bicycles	7
	741		39499	Sporting and athletic gds. n.e.c.	25
		39490		Sporting and athletic goods	25
	771	39831	39831	Matches	17
WASTE AND SCRAP MATERIALS					
602	789	40111	40111	Scrap, iron and steel	148
	795		40129	Scrap, nonferr. met. exc. prec. met. n.e.c.	145
		40120		Scrap, nonferrous metal exc. precious metal	145
	655	40211	40211	Waste paper	14
930	797		40299	Scrap and wastes, n.e.c.	41
		40200		Waste and scrap materials miscellaneous	41
511	337	13111	13111	Petroleum crude	55
507	501	29111	29111	Gas, jet, et al. vol. pet. fuels ex. nat. gas	41
510	503	29112	29112	Kerosene, dist. and resid. fuel oil, etc.	55
900	799		39999	Misc. Products of Manufacturing	27

