

2022

SURFACE TRANSPORTATION BOARD

CARLOAD WAYBILL SAMPLE

REFERENCE GUIDE

February 1, 2024



Business Services

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SECTION 1 Summary of 2022 Waybill Processing

Railinc has collected and processed 2,101,202 waybills for inclusion in the 2022 Carload Waybill Sample. Of this total, 100 percent were submitted electronically. This 2022 figure is slightly larger than 2021 levels.

As of the March 1, 2023 cutoff date for processing the 2022 Sample, there were no late reporting roads.

*Table 1-2 provides a detailed breakdown of the 2022 Waybill Statistics by two-digit Standard Transportation Commodity Code (STCC). Both raw and factored-to-population data for carloads, tonnage, and line-haul revenue are provided, in addition to a count of the number of waybills from which the data was derived.

Table 1-3 provides a Three Year (2020–2022) **Carload** History from Waybill Statistics by two-digit Standard Transportation Commodity Code (STCC). US, Canadian and Mexican Origins.

*Table 1-4 provides a Three Year (2020–2022) **Revenue** History from Waybill Statistics by two-digit Standard Transportation Commodity Code (STCC). US, Canadian and Mexican Origins.

Table 1-5 provides a Three Year (2020–2022) **Tonnage** History from Waybill Statistics by two-digit Standard Transportation Commodity Code (STCC). US, Canadian and Mexican Origins.

Figure 1-1 provides graphical views of the three-year history of the top six commodity groups and all others. Trending per STCC can be seen across those years.

*Table 1-6 provides a breakdown similar to that of Table 1-2, for 2022 Waybills with United States origins only. U.S. origins accounted for 1,943,423 originated waybills (92.5% percent of those sampled).

Table 1-7 provides a Three Year (2020–2022) **Carload** History from Waybill Statistics by two-digit Standard Transportation Commodity Code (STCC). US Origins Only.

*Table 1-8 provides a Three Year (2020–2022) **Revenue** History from Waybill Statistics by two-digit Standard Transportation Commodity Code (STCC). US Origins Only.

Table 1-9 provides a Three Year (2020–2022) **Tonnage** History from Waybill Statistics by two-digit Standard Transportation Commodity Code (STCC). US Origins Only.

Figure 1-2 provides graphical views of the three-year history of the top six commodity groups and all others. US origins only. Trending per STCC can be seen across those years.

*Table 1-10 provides a breakdown similar to that of Table 1-2, for 2022 Waybill traffic for Canadian originations only. Canadian originations were a slightly larger percentage of the total sample than in 2021 accounting for 151,071 originated waybills, 7.19% of the total sample.

Table 1-11 provides a Three Year (2020–2022) **Carload** History from Waybill Statistics by two-digit Standard Transportation Commodity Code (STCC). Canadian Origins Only.

*Table 1-12 provides a Three Year (2020–2022) **Revenue** History from Waybill Statistics by two-digit Standard Transportation Commodity Code (STCC). Canadian Origins Only.

Table 1-13 provides a Three Year (2020–2022) **Tonnage** History from Waybill Statistics by two-digit Standard Transportation Commodity Code (STCC). Canadian Origins Only.

Figure 1-3 provides graphical views of the three-year history of the top six commodity groups and all others. Canadian origins only. Trending per STCC can be seen across those years.

*Table 1-14 provides a breakdown similar to that of Table 1-2, for 2022 Waybill traffic for Mexican originations only. Mexican originations were a smaller percentage of the total sample than in 2021, accounting for 6,708 originated waybills, 0.3% of the total sample.

Table 1-15 provides a Three Year (2020–2022) **Carload** History from Waybill Statistics by two-digit Standard Transportation Commodity Code (STCC). Mexican Origins Only.

*Table 1-16 provides a Three Year (2020–2022) **Revenue** History from Waybill Statistics by two-digit Standard Transportation Commodity Code (STCC). Mexican Origins Only.

Table 1-17 provides a Three Year (2020–2022) **Tonnage** History from Waybill Statistics by two-digit Standard Transportation Commodity Code (STCC). Mexican Origins Only.

Figure 1-4 provides graphical views of the three-year history of the top six commodity groups and all others. Mexican Origins Only. Trending per STCC can be seen across those years.

**Railroads are permitted to “mask” contract revenue with a calculated figure. Since these figures may not represent actual revenue, use of this revenue data in any type of comparison may lead to wrong or misleading results.*

Table 1-1. Standard Transportation Commodity Code Major Industry Group Numbers

GROUP	DESCRIPTION
01	Farm Products
08	Forest Products
09	Fresh Fish or Other Marine Products
10	Metallic Ores
11	Coal
13	Crude Petroleum, Natural Gas or Gasoline
14	Nonmetallic Minerals; except Fuels
19	Ordnance or Accessories
20	Food or Kindred Products
21	Tobacco Products; except Insecticides—see Major Industry Group 28
22	Textile Mill Products
23	Apparel, or Other Finished Textile Products or Knit Apparel
24	Lumber or Wood Products; except Furniture—see Major Industry Group 25
25	Furniture or Fixtures
26	Pulp, Paper or Allied Products
27	Printed Matter
28	Chemicals or Allied Products
29	Petroleum or Coal Products
30	Rubber or Miscellaneous Plastics Products
31	Leather or Leather Products
32	Clay, Concrete, Glass or Stone Products
33	Primary Metal Products, including Galvanized; except Coating or other Allied Processing—see Major Industry Group 34
34	Fabricated Metal Products; except Ordnance—see Major Industry Groups 19, 35, 36 or 37
35	Machinery; except Electrical—see Major Industry Group 36
36	Electrical Machinery, Equipment or Supplies
37	Transportation Equipment
38	Instruments, Photographic Goods, Optical Goods, Watches or Clocks
39	Miscellaneous Products of Manufacturing
40	Waste or Scrap Materials Not Identified by Producing Industry
41	Miscellaneous Freight Shipments
42	Containers, Carriers or Devices, Shipping, Returned Empty
43	Mail, Express or Other Contract Traffic
44	Freight Forwarder Traffic
45	Shipper Association or Similar Traffic
46	Miscellaneous Mixed Shipments
47	Small Packaged Freight Shipments
48	Hazardous Wastes
49	Hazardous Materials
50	Bulk Commodity Shipments in Boxcars

Waybills of US, Canadian & Mexican Origin

Table 1-2. 2022 Waybill Sample—US, Canada & Mexico (Carloads, Revenue, and Tonnage by STCC Code)

2022							
2-Digit STCC	Waybills Sampled	Estimates for Total Population					
		Total Carloads	Percent of Population	Total Revenue	Percent of Population	Total Tonnage	Percent of Population
01	36,235	1,856,973	5.5%	\$8,452,715,972	8.1%	174,551,015	9.4%
08	144	1,560	0.0%	\$6,439,860	0.0%	59,030	0.0%
09	41	1,290	0.0%	\$3,245,820	0.0%	26,105	0.0%
10	5,235	716,354	2.1%	\$727,920,478	0.7%	63,566,144	3.4%
11	16,841	4,004,218	11.8%	\$11,755,588,304	11.3%	468,986,043	25.2%
13	73	15,713	0.0%	\$137,648,865	0.1%	1,517,815	0.1%
14	48,019	1,611,967	4.8%	\$3,470,400,907	3.3%	170,011,448	9.2%
19	44	1,296	0.0%	\$14,362,934	0.0%	53,321	0.0%
20	228,889	2,125,210	6.3%	\$9,368,822,439	9.0%	146,442,954	7.9%
21	37	1,480	0.0%	\$641,400	0.0%	13,160	0.0%
22	410	15,140	0.0%	\$26,658,865	0.0%	199,855	0.0%
23	10,989	434,145	1.3%	\$782,597,500	0.8%	5,318,905	0.3%
24	88,662	558,909	1.6%	\$3,471,812,838	3.3%	45,221,608	2.4%
25	5,831	233,170	0.7%	\$456,445,185	0.4%	2,857,120	0.2%
26	96,620	774,550	2.3%	\$3,614,871,615	3.5%	39,946,175	2.2%
27	566	22,640	0.1%	\$40,659,360	0.0%	342,040	0.0%
28	275,666	1,826,974	5.4%	\$9,237,576,469	8.9%	161,018,345	8.7%
29	39,489	411,321	1.2%	\$1,522,918,947	1.5%	34,264,802	1.8%
30	10,288	403,680	1.2%	\$822,587,055	0.8%	4,929,900	0.3%
31	76	3,040	0.0%	\$10,885,720	0.0%	28,280	0.0%
32	83,270	573,537	1.7%	\$2,708,015,374	2.6%	54,630,349	2.9%
33	101,816	597,645	1.8%	\$3,621,895,437	3.5%	53,068,200	2.9%
34	1,535	56,518	0.2%	\$146,739,426	0.1%	858,480	0.0%
35	3,626	124,535	0.4%	\$407,050,560	0.4%	1,899,023	0.1%
36	6,321	179,615	0.5%	\$477,439,990	0.5%	2,013,540	0.1%
37	361,648	2,321,908	6.9%	\$9,618,654,198	9.3%	44,021,998	2.4%
38	686	21,455	0.1%	\$53,703,865	0.1%	358,405	0.0%
39	985	39,365	0.1%	\$81,468,445	0.1%	419,510	0.0%
40	68,901	700,609	2.1%	\$2,174,571,787	2.1%	53,078,479	2.9%
41	3,895	146,067	0.4%	\$440,506,234	0.4%	1,432,709	0.1%
42	58,522	2,300,720	6.8%	\$1,630,098,325	1.6%	177,295	0.0%
43	40	1,600	0.0%	\$3,258,480	0.0%	15,160	0.0%
45	35	1,400	0.0%	\$4,287,040	0.0%	29,920	0.0%
46	219,913	8,795,665	25.9%	\$14,755,919,650	14.2%	119,008,585	6.4%
47	5,331	213,240	0.6%	\$658,578,200	0.6%	2,755,520	0.1%
48	2,915	18,105	0.1%	\$116,578,375	0.1%	1,317,080	0.1%
49	317,586	2,783,248	8.2%	\$13,055,304,276	12.6%	203,361,846	10.9%
50	22	110	0.0%	\$313,140	0.0%	5,785	0.0%
TOTALS	2,101,202	33,894,972	100.0%	\$103,879,183,335	100.0%	1,857,805,949	100.0%

Table 1-3. Carload 3-Year History from Waybill Samples—US, Canada & Mexico (by STCC Code)

Carload Estimates for Total Population						
2-Digit STCC	2022		2021		2020	
	Total Carloads	Percent of Population	Total Carloads	Percent of Population	Total Carloads	Percent of Population
01	1,856,973	5.5%	1,758,727	5.1%	1,774,616	5.4%
08	1,560	0.0%	1,480	0.0%	1,880	0.0%
09	1,290	0.0%	975	0.0%	1,120	0.0%
10	716,354	2.1%	759,844	2.2%	680,768	2.1%
11	4,004,218	11.8%	3,967,399	11.5%	3,589,101	11.0%
13	15,713	0.0%	200	0.0%	1,635	0.0%
14	1,611,967	4.8%	1,505,146	4.4%	1,417,080	4.3%
19	1,296	0.0%	853	0.0%	1,124	0.0%
20	2,125,210	6.3%	2,049,981	6.0%	2,029,605	6.2%
21	1,480	0.0%	1,720	0.0%	1,360	0.0%
22	15,140	0.0%	16,345	0.0%	18,400	0.1%
23	434,145	1.3%	486,035	1.4%	466,360	1.4%
24	558,909	1.6%	549,062	1.6%	499,108	1.5%
25	233,170	0.7%	257,560	0.7%	205,720	0.6%
26	774,550	2.3%	794,890	2.3%	786,260	2.4%
27	22,640	0.1%	26,440	0.1%	30,400	0.1%
28	1,826,974	5.4%	1,830,659	5.3%	1,757,967	5.4%
29	411,321	1.2%	352,047	1.0%	331,195	1.0%
30	403,680	1.2%	436,965	1.3%	417,356	1.3%
31	3,040	0.0%	2,960	0.0%	2,600	0.0%
32	573,537	1.7%	590,188	1.7%	553,361	1.7%
33	597,645	1.8%	630,592	1.8%	531,238	1.6%
34	56,518	0.2%	55,431	0.2%	57,888	0.2%
35	124,535	0.4%	140,784	0.4%	153,505	0.5%
36	179,615	0.5%	182,040	0.5%	213,272	0.7%
37	2,321,908	6.9%	2,222,590	6.5%	2,208,975	6.7%
38	21,455	0.1%	10,730	0.0%	11,080	0.0%
39	39,365	0.1%	36,365	0.1%	42,840	0.1%
40	700,609	2.1%	684,866	2.0%	623,012	1.9%
41	146,067	0.4%	152,893	0.4%	169,176	0.5%
42	2,300,720	6.8%	2,347,940	6.8%	1,790,320	5.5%
43	1,600	0.0%	1,320	0.0%	1,520	0.0%
44	0	0.0%	80	0.0%	80	0.0%
45	1,400	0.0%	1,240	0.0%	680	0.0%
46	8,795,665	25.9%	9,334,610	27.1%	9,269,748	28.3%
47	213,240	0.6%	258,045	0.7%	204,800	0.6%
48	18,105	0.1%	22,125	0.1%	20,440	0.1%
49	2,783,248	8.2%	2,944,827	8.6%	2,902,494	8.9%
50	110	0.0%	85	0.0%	40	0.0%
TOTALS	33,894,972	100.0%	34,416,039	100.0%	32,768,124	100.0%

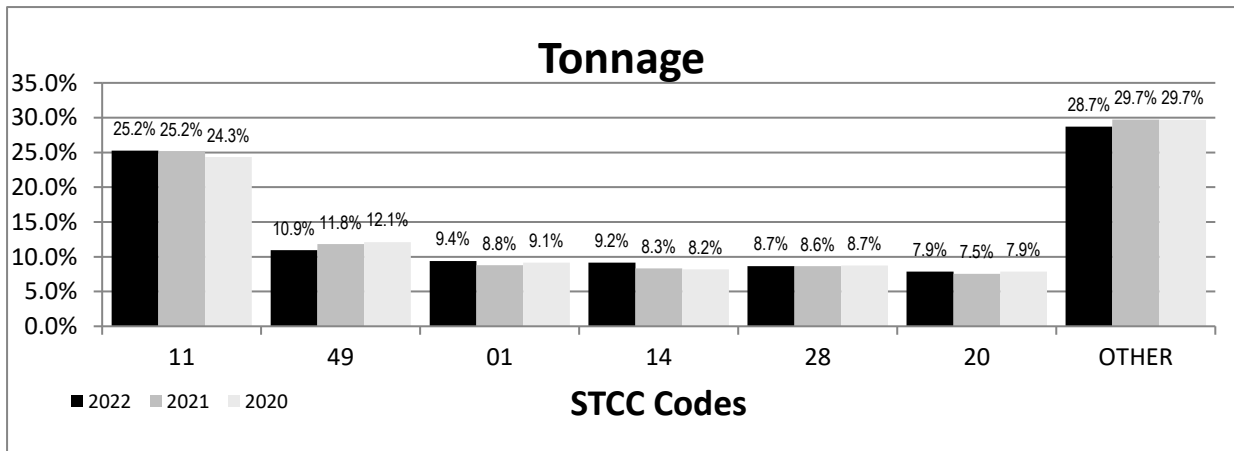
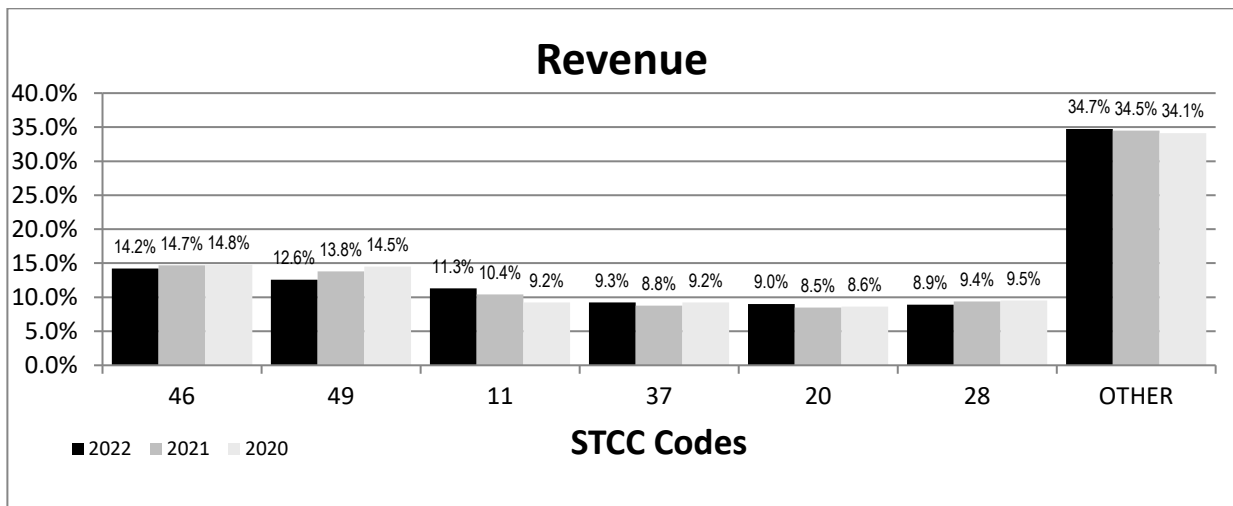
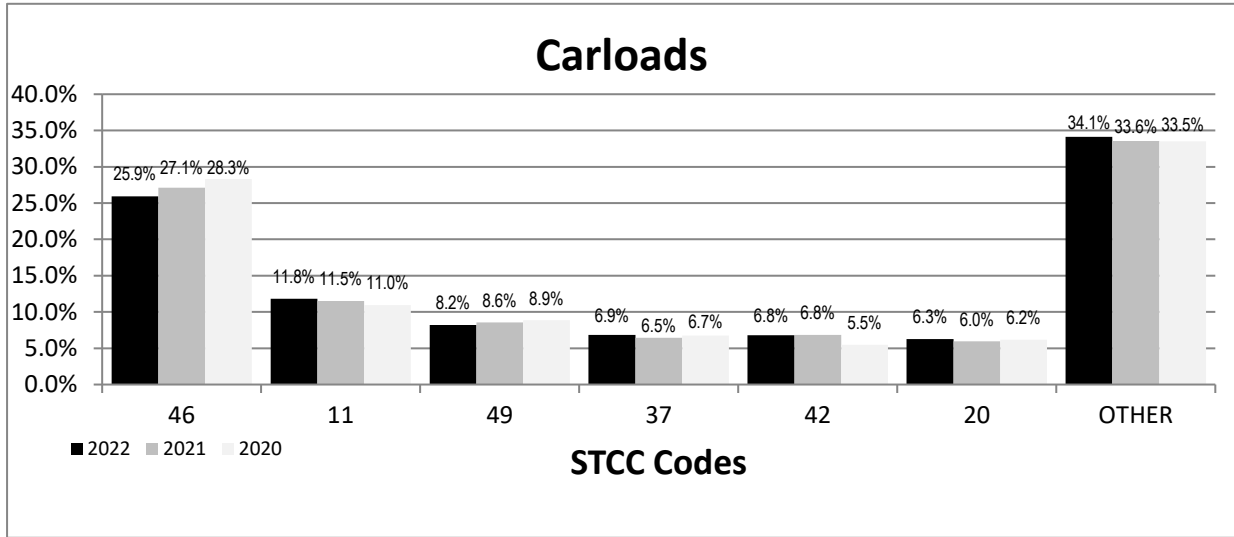
Table 1-4. Revenue 3-Year History from Waybill Samples—US, Canada & Mexico (by STCC Code)

2-Digit STCC	Revenue Estimates for Total Population					
	2022		2021		2020	
	Total Revenue	Percent of Population	Total Revenue	Percent of Population	Total Revenue	Percent of Population
01	\$8,452,715,972	8.1%	\$7,113,962,018	7.9%	\$6,893,695,648	8.4%
08	\$6,439,860	0.0%	\$6,911,700	0.0%	\$7,424,800	0.0%
09	\$3,245,820	0.0%	\$1,651,035	0.0%	\$1,967,120	0.0%
10	\$727,920,478	0.7%	\$646,449,278	0.7%	\$519,995,955	0.6%
11	\$11,755,588,304	11.3%	\$9,383,421,855	10.4%	\$7,553,502,880	9.2%
13	\$137,648,865	0.1%	\$453,840	0.0%	\$5,904,145	0.0%
14	\$3,470,400,907	3.3%	\$2,832,898,637	3.1%	\$2,540,150,763	3.1%
19	\$14,362,934	0.0%	\$3,616,963	0.0%	\$7,684,072	0.0%
20	\$9,368,822,439	9.0%	\$7,630,054,738	8.5%	\$7,061,091,731	8.6%
21	\$641,400	0.0%	\$1,019,760	0.0%	\$616,520	0.0%
22	\$26,658,865	0.0%	\$23,346,695	0.0%	\$24,959,760	0.0%
23	\$782,597,500	0.8%	\$707,748,945	0.8%	\$614,658,080	0.8%
24	\$3,471,812,838	3.3%	\$3,043,451,138	3.4%	\$2,665,511,376	3.3%
25	\$456,445,185	0.4%	\$389,748,000	0.4%	\$290,314,200	0.4%
26	\$3,614,871,615	3.5%	\$3,153,014,570	3.5%	\$2,930,010,852	3.6%
27	\$40,659,360	0.0%	\$36,236,240	0.0%	\$36,778,680	0.0%
28	\$9,237,576,469	8.9%	\$8,431,617,055	9.4%	\$7,775,110,019	9.5%
29	\$1,522,918,947	1.5%	\$1,185,946,065	1.3%	\$1,067,326,031	1.3%
30	\$822,587,055	0.8%	\$721,589,925	0.8%	\$615,416,132	0.8%
31	\$10,885,720	0.0%	\$8,102,000	0.0%	\$7,248,000	0.0%
32	\$2,708,015,374	2.6%	\$2,450,118,734	2.7%	\$2,218,049,852	2.7%
33	\$3,621,895,437	3.5%	\$3,254,923,171	3.6%	\$2,759,824,295	3.4%
34	\$146,739,426	0.1%	\$110,965,055	0.1%	\$108,858,644	0.1%
35	\$407,050,560	0.4%	\$411,666,375	0.5%	\$574,329,086	0.7%
36	\$477,439,990	0.5%	\$374,212,175	0.4%	\$373,101,152	0.5%
37	\$9,618,654,198	9.3%	\$7,876,477,654	8.8%	\$7,547,385,347	9.2%
38	\$53,703,865	0.1%	\$26,317,800	0.0%	\$23,879,800	0.0%
39	\$81,468,445	0.1%	\$55,838,620	0.1%	\$59,062,880	0.1%
40	\$2,174,571,787	2.1%	\$1,877,393,449	2.1%	\$1,569,665,992	1.9%
41	\$440,506,234	0.4%	\$349,688,779	0.4%	\$365,010,647	0.4%
42	\$1,630,098,325	1.6%	\$1,412,467,330	1.6%	\$1,000,626,000	1.2%
43	\$3,258,480	0.0%	\$2,000,560	0.0%	\$2,204,360	0.0%
44	\$0	0.0%	\$159,080	0.0%	\$161,200	0.0%
45	\$4,287,040	0.0%	\$3,152,680	0.0%	\$1,797,120	0.0%
46	\$14,755,919,650	14.2%	\$13,218,185,655	14.7%	\$12,109,697,960	14.8%
47	\$658,578,200	0.6%	\$684,402,690	0.8%	\$522,106,160	0.6%
48	\$116,578,375	0.1%	\$116,904,910	0.1%	\$98,517,724	0.1%
49	\$13,055,304,276	12.6%	\$12,395,466,566	13.8%	\$11,847,207,573	14.5%
50	\$313,140	0.0%	\$225,045	0.0%	\$86,360	0.0%
TOTALS	\$103,879,183,335	100.0%	\$89,941,806,785	100.0%	\$81,800,938,916	100.0%

Table 1-5. Tonnage 3-Year History from Waybill Samples—US, Canada & Mexico (by STCC Code)

Tonnage Estimates for Total Population						
2-Digit STCC	2022		2021		2020	
	Total Tonnage	Percent of Population	Total Tonnage	Percent of Population	Total Tonnage	Percent of Population
01	174,551,015	9.4%	162,540,610	8.8%	158,047,498	9.1%
08	59,030	0.0%	70,810	0.0%	60,960	0.0%
09	26,105	0.0%	19,025	0.0%	20,000	0.0%
10	63,566,144	3.4%	67,549,962	3.7%	59,361,049	3.4%
11	468,986,043	25.2%	465,028,946	25.2%	420,832,473	24.3%
13	1,517,815	0.1%	3,280	0.0%	111,464	0.0%
14	170,011,448	9.2%	154,178,892	8.3%	141,433,284	8.2%
19	53,321	0.0%	38,795	0.0%	52,224	0.0%
20	146,442,954	7.9%	139,101,337	7.5%	135,930,047	7.9%
21	13,160	0.0%	16,280	0.0%	12,280	0.0%
22	199,855	0.0%	205,330	0.0%	225,400	0.0%
23	5,318,905	0.3%	5,913,425	0.3%	5,710,680	0.3%
24	45,221,608	2.4%	45,048,955	2.4%	42,072,274	2.4%
25	2,857,120	0.2%	3,324,240	0.2%	2,573,880	0.1%
26	39,946,175	2.2%	40,713,130	2.2%	40,071,384	2.3%
27	342,040	0.0%	435,680	0.0%	472,760	0.0%
28	161,018,345	8.7%	159,592,513	8.6%	151,157,747	8.7%
29	34,264,802	1.8%	29,358,435	1.6%	28,251,707	1.6%
30	4,929,900	0.3%	5,144,535	0.3%	4,775,804	0.3%
31	28,280	0.0%	29,000	0.0%	26,480	0.0%
32	54,630,349	2.9%	55,685,492	3.0%	50,916,306	2.9%
33	53,068,200	2.9%	56,378,889	3.1%	46,753,031	2.7%
34	858,480	0.0%	834,213	0.0%	820,588	0.0%
35	1,899,023	0.1%	2,310,709	0.1%	2,947,041	0.2%
36	2,013,540	0.1%	2,120,645	0.1%	2,317,112	0.1%
37	44,021,998	2.4%	41,804,636	2.3%	44,859,469	2.6%
38	358,405	0.0%	179,345	0.0%	161,360	0.0%
39	419,510	0.0%	408,990	0.0%	478,360	0.0%
40	53,078,479	2.9%	50,880,872	2.8%	43,095,400	2.5%
41	1,432,709	0.1%	1,549,341	0.1%	2,034,648	0.1%
42	177,295	0.0%	6,614,710	0.4%	6,044,920	0.3%
43	15,160	0.0%	12,160	0.0%	11,400	0.0%
44	0	0.0%	600	0.0%	1,320	0.0%
45	29,920	0.0%	25,960	0.0%	15,480	0.0%
46	119,008,585	6.4%	127,578,345	6.9%	125,021,148	7.2%
47	2,755,520	0.1%	3,344,485	0.2%	2,487,760	0.1%
48	1,317,080	0.1%	1,398,465	0.1%	1,274,556	0.1%
49	203,361,846	10.9%	218,363,213	11.8%	209,671,272	12.1%
50	5,785	0.0%	4,905	0.0%	2,400	0.0%
TOTALS	1,857,805,949	100.0%	1,847,809,155	100.0%	1,730,112,966	100.0%

Figure 1-1. Top Six Commodity Groups and All Others—for US, Canada, & Mexico (3-Year History by Carloads, Revenue, and Tonnage)



Waybills of US Origin

Table 1-6. US Origin 2022 Waybill Sample—Carloads, Revenue, and Tonnage (by STCC Code)

2022							
2-Digit STCC	Waybills Sampled	Estimates for Total Population					
		Total Carloads	Percent of Population	Total Revenue	Percent of Population	Total Tonnage	Percent of Population
01	34,880	1,822,549	5.6%	\$8,263,630,489	8.5%	171,504,615	9.7%
08	144	1,560	0.0%	\$6,439,860	0.0%	59,030	0.0%
09	40	1,250	0.0%	\$3,214,780	0.0%	25,625	0.0%
10	5,020	715,104	2.2%	\$718,147,488	0.7%	63,458,284	3.6%
11	16,824	4,000,114	12.4%	\$11,741,191,632	12.1%	468,547,221	26.5%
13	7	536	0.0%	\$1,546,669	0.0%	42,695	0.0%
14	47,197	1,606,451	5.0%	\$3,458,297,318	3.6%	169,531,250	9.6%
19	44	1,296	0.0%	\$14,362,934	0.0%	53,321	0.0%
20	219,259	2,045,970	6.3%	\$8,844,230,231	9.1%	139,361,773	7.9%
21	37	1,480	0.0%	\$641,400	0.0%	13,160	0.0%
22	392	14,420	0.0%	\$25,171,745	0.0%	189,935	0.0%
23	10,969	433,345	1.3%	\$780,997,860	0.8%	5,306,785	0.3%
24	62,817	424,079	1.3%	\$2,190,423,937	2.3%	33,141,303	1.9%
25	5,785	231,330	0.7%	\$450,382,145	0.5%	2,831,520	0.2%
26	87,553	721,735	2.2%	\$3,161,800,990	3.3%	35,808,780	2.0%
27	561	22,440	0.1%	\$40,044,560	0.0%	337,760	0.0%
28	261,707	1,662,349	5.1%	\$8,444,661,731	8.7%	144,667,125	8.2%
29	37,198	375,009	1.2%	\$1,301,801,263	1.3%	30,980,883	1.8%
30	9,976	391,620	1.2%	\$795,445,505	0.8%	4,767,230	0.3%
31	75	3,000	0.0%	\$10,842,080	0.0%	27,960	0.0%
32	78,405	548,257	1.7%	\$2,552,103,279	2.6%	52,121,129	2.9%
33	92,394	548,515	1.7%	\$3,172,450,137	3.3%	48,617,315	2.8%
34	1,432	53,028	0.2%	\$138,383,146	0.1%	799,825	0.0%
35	3,492	120,098	0.4%	\$392,933,078	0.4%	1,837,445	0.1%
36	4,893	168,395	0.5%	\$391,348,040	0.4%	1,866,975	0.1%
37	343,302	2,221,773	6.9%	\$9,286,435,268	9.6%	41,907,353	2.4%
38	672	20,895	0.1%	\$52,173,025	0.1%	351,725	0.0%
39	952	38,045	0.1%	\$78,272,485	0.1%	406,030	0.0%
40	63,707	666,574	2.1%	\$2,060,299,164	2.1%	50,373,174	2.8%
41	3,869	145,097	0.4%	\$438,807,654	0.5%	1,416,804	0.1%
42	58,429	2,297,000	7.1%	\$1,627,880,765	1.7%	175,575	0.0%
43	40	1,600	0.0%	\$3,258,480	0.0%	15,160	0.0%
45	35	1,400	0.0%	\$4,287,040	0.0%	29,920	0.0%
46	208,296	8,330,985	25.7%	\$14,020,867,770	14.5%	112,112,585	6.3%
47	5,331	213,240	0.7%	\$658,578,200	0.7%	2,755,520	0.2%
48	2,489	15,555	0.0%	\$99,455,360	0.1%	1,126,260	0.1%
49	275,178	2,514,672	7.8%	\$11,435,927,304	11.8%	181,322,263	10.3%
50	22	110	0.0%	\$313,140	0.0%	5,785	0.0%
TOTALS	1,943,423	32,380,876	100.0%	\$96,667,047,952	100.0%	1,767,897,098	100.0%

Table 1-7. US Origin Carload 3-Year History from Waybill Samples (by STCC Code)

2-Digit STCC	Carload Estimates for Total Population					
	2022		2021		2020	
	Total Carloads	Percent of Population	Total Carloads	Percent of Population	Total Carloads	Percent of Population
01	1,822,549	5.6%	1,732,949	5.3%	1,743,068	5.6%
08	1,560	0.0%	1,440	0.0%	1,800	0.0%
09	1,250	0.0%	975	0.0%	1,120	0.0%
10	715,104	2.2%	758,829	2.3%	679,728	2.2%
11	4,000,114	12.4%	3,963,275	12.1%	3,586,875	11.5%
13	536	0.0%	200	0.0%	1,555	0.0%
14	1,606,451	5.0%	1,499,428	4.6%	1,411,160	4.5%
19	1,296	0.0%	853	0.0%	1,124	0.0%
20	2,045,970	6.3%	1,966,156	6.0%	1,949,557	6.3%
21	1,480	0.0%	1,680	0.0%	1,360	0.0%
22	14,420	0.0%	15,505	0.0%	16,760	0.1%
23	433,345	1.3%	483,355	1.5%	464,840	1.5%
24	424,079	1.3%	414,982	1.3%	374,832	1.2%
25	231,330	0.7%	254,640	0.8%	201,320	0.6%
26	721,735	2.2%	745,170	2.3%	739,980	2.4%
27	22,440	0.1%	26,400	0.1%	30,360	0.1%
28	1,662,349	5.1%	1,658,016	5.0%	1,589,550	5.1%
29	375,009	1.2%	341,127	1.0%	320,543	1.0%
30	391,620	1.2%	427,110	1.3%	408,916	1.3%
31	3,000	0.0%	2,960	0.0%	2,480	0.0%
32	548,257	1.7%	564,988	1.7%	531,393	1.7%
33	548,515	1.7%	582,032	1.8%	492,918	1.6%
34	53,028	0.2%	51,851	0.2%	54,288	0.2%
35	120,098	0.4%	133,715	0.4%	147,094	0.5%
36	168,395	0.5%	168,680	0.5%	200,912	0.6%
37	2,221,773	6.9%	2,117,345	6.4%	2,123,303	6.8%
38	20,895	0.1%	10,410	0.0%	10,760	0.0%
39	38,045	0.1%	35,205	0.1%	40,920	0.1%
40	666,574	2.1%	653,349	2.0%	595,084	1.9%
41	145,097	0.4%	151,973	0.5%	168,096	0.5%
42	2,297,000	7.1%	2,343,355	7.1%	1,784,680	5.7%
43	1,600	0.0%	1,320	0.0%	1,520	0.0%
44	0	0.0%	0	0.0%	80	0.0%
45	1,400	0.0%	1,240	0.0%	680	0.0%
46	8,330,985	25.7%	8,866,570	27.0%	8,700,948	27.9%
47	213,240	0.7%	258,045	0.8%	204,800	0.7%
48	15,555	0.0%	18,990	0.1%	18,120	0.1%
49	2,514,672	7.8%	2,606,513	7.9%	2,579,195	8.3%
50	110	0.0%	85	0.0%	40	0.0%
TOTALS	32,380,876	100.0%	32,860,716	100.0%	31,181,759	100.0%

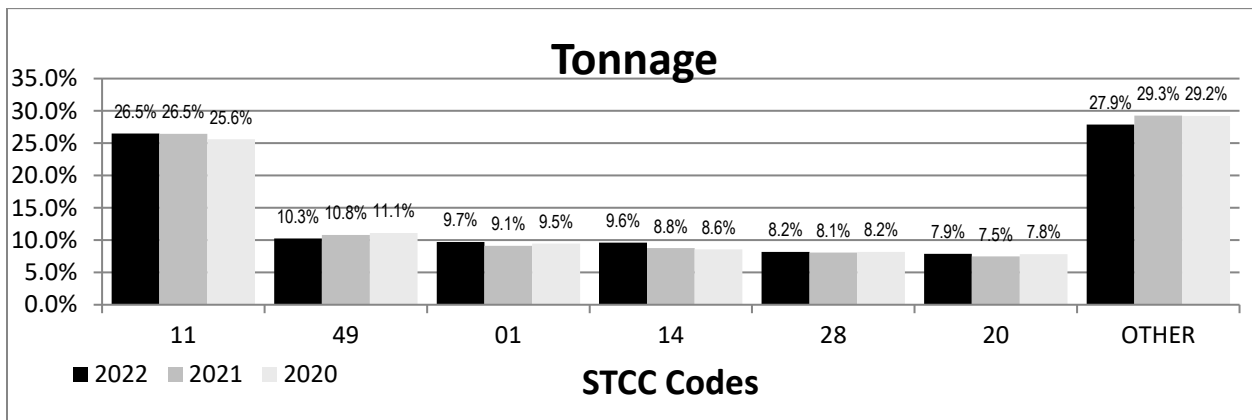
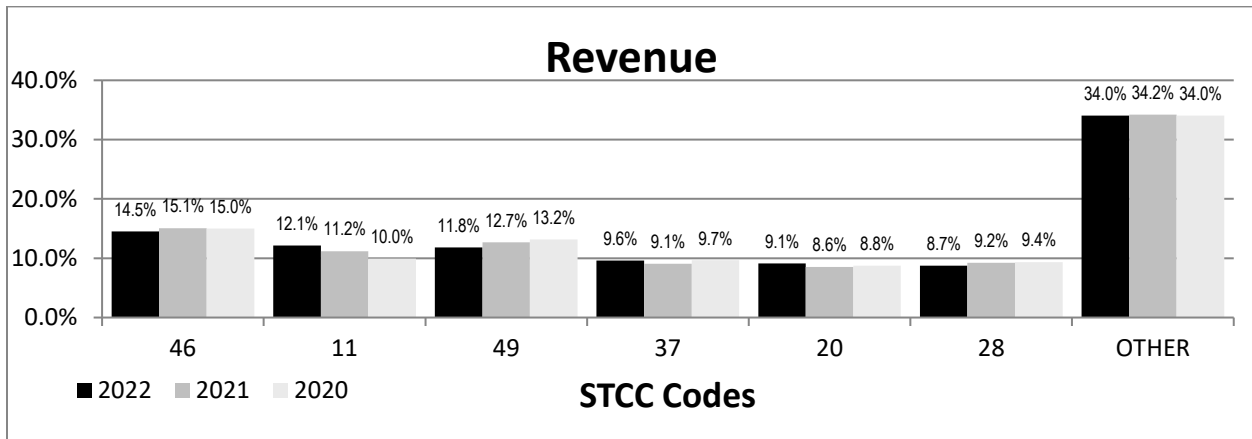
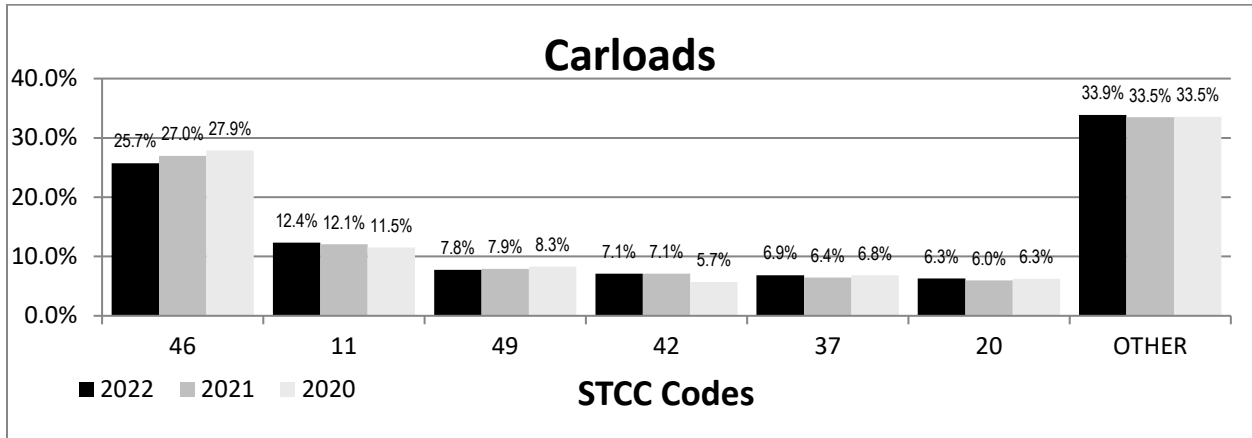
Table 1-8. US Origin Revenue 3-Year History from Waybill Samples (by STCC Code)

2-Digit STCC	Revenue Estimates for Total Population					
	2022		2021		2020	
	Total Revenue	Percent of Population	Total Revenue	Percent of Population	Total Revenue	Percent of Population
01	\$8,263,630,489	8.5%	\$6,985,622,669	8.3%	\$6,741,176,234	8.9%
08	\$6,439,860	0.0%	\$6,832,940	0.0%	\$7,317,240	0.0%
09	\$3,214,780	0.0%	\$1,651,035	0.0%	\$1,967,120	0.0%
10	\$718,147,488	0.7%	\$639,680,633	0.8%	\$513,591,195	0.7%
11	\$11,741,191,632	12.1%	\$9,370,157,419	11.2%	\$7,544,849,384	10.0%
13	\$1,546,669	0.0%	\$453,840	0.0%	\$5,815,385	0.0%
14	\$3,458,297,318	3.6%	\$2,821,538,918	3.4%	\$2,531,713,363	3.3%
19	\$14,362,934	0.0%	\$3,616,963	0.0%	\$7,684,072	0.0%
20	\$8,844,230,231	9.1%	\$7,159,549,281	8.6%	\$6,637,560,877	8.8%
21	\$641,400	0.0%	\$960,960	0.0%	\$616,520	0.0%
22	\$25,171,745	0.0%	\$21,813,495	0.0%	\$22,177,960	0.0%
23	\$780,997,860	0.8%	\$702,010,305	0.8%	\$612,477,280	0.8%
24	\$2,190,423,937	2.3%	\$1,929,362,768	2.3%	\$1,682,021,104	2.2%
25	\$450,382,145	0.5%	\$381,389,320	0.5%	\$282,599,320	0.4%
26	\$3,161,800,990	3.3%	\$2,813,856,415	3.4%	\$2,594,438,932	3.4%
27	\$40,044,560	0.0%	\$36,214,280	0.0%	\$36,752,160	0.0%
28	\$8,444,661,731	8.7%	\$7,725,633,796	9.2%	\$7,090,780,336	9.4%
29	\$1,301,801,263	1.3%	\$1,131,024,664	1.4%	\$1,016,124,451	1.3%
30	\$795,445,505	0.8%	\$702,612,705	0.8%	\$604,078,052	0.8%
31	\$10,842,080	0.0%	\$8,102,000	0.0%	\$7,130,000	0.0%
32	\$2,552,103,279	2.6%	\$2,325,644,809	2.8%	\$2,104,222,292	2.8%
33	\$3,172,450,137	3.3%	\$2,891,125,966	3.5%	\$2,496,255,255	3.3%
34	\$138,383,146	0.1%	\$104,747,710	0.1%	\$100,897,164	0.1%
35	\$392,933,078	0.4%	\$386,169,508	0.5%	\$551,728,572	0.7%
36	\$391,348,040	0.4%	\$317,858,845	0.4%	\$318,857,912	0.4%
37	\$9,286,435,268	9.6%	\$7,586,793,781	9.1%	\$7,323,466,763	9.7%
38	\$52,173,025	0.1%	\$25,908,120	0.0%	\$23,460,200	0.0%
39	\$78,272,485	0.1%	\$54,823,740	0.1%	\$56,948,880	0.1%
40	\$2,060,299,164	2.1%	\$1,786,600,396	2.1%	\$1,495,193,928	2.0%
41	\$438,807,654	0.5%	\$348,030,739	0.4%	\$363,363,327	0.5%
42	\$1,627,880,765	1.7%	\$1,411,003,835	1.7%	\$998,072,880	1.3%
43	\$3,258,480	0.0%	\$2,000,560	0.0%	\$2,204,360	0.0%
44	\$0	0.0%	\$0	0.0%	\$161,200	0.0%
45	\$4,287,040	0.0%	\$3,152,680	0.0%	\$1,797,120	0.0%
46	\$14,020,867,770	14.5%	\$12,614,543,735	15.1%	\$11,388,667,160	15.0%
47	\$658,578,200	0.7%	\$684,402,690	0.8%	\$522,106,160	0.7%
48	\$99,455,360	0.1%	\$96,250,430	0.1%	\$85,357,564	0.1%
49	\$11,435,927,304	11.8%	\$10,602,515,072	12.7%	\$9,995,548,728	13.2%
50	\$313,140	0.0%	\$225,045	0.0%	\$86,360	0.0%
TOTALS	\$96,667,047,952	100.0%	\$83,683,882,067	100.0%	\$75,769,266,810	100.0%

Table 1-9. US Origin Tonnage 3-Year History from Waybill Samples (by STCC Code)

2-Digit STCC	Tonnage Estimates for Total Population					
	2022		2021		2020	
	Total Tonnage	Percent of Population	Total Tonnage	Percent of Population	Total Tonnage	Percent of Population
01	171,504,615	9.7%	160,379,617	9.1%	155,250,114	9.5%
08	59,030	0.0%	69,970	0.0%	59,320	0.0%
09	25,625	0.0%	19,025	0.0%	20,000	0.0%
10	63,458,284	3.6%	67,456,057	3.8%	59,269,369	3.6%
11	468,547,221	26.5%	464,605,464	26.5%	420,609,483	25.6%
13	42,695	0.0%	3,280	0.0%	110,304	0.0%
14	169,531,250	9.6%	153,691,980	8.8%	140,994,204	8.6%
19	53,321	0.0%	38,795	0.0%	52,224	0.0%
20	139,361,773	7.9%	131,489,651	7.5%	128,696,919	7.8%
21	13,160	0.0%	16,120	0.0%	12,280	0.0%
22	189,935	0.0%	193,690	0.0%	205,760	0.0%
23	5,306,785	0.3%	5,877,065	0.3%	5,692,520	0.3%
24	33,141,303	1.9%	33,040,345	1.9%	30,938,314	1.9%
25	2,831,520	0.2%	3,286,200	0.2%	2,514,840	0.2%
26	35,808,780	2.0%	36,926,145	2.1%	36,451,064	2.2%
27	337,760	0.0%	435,440	0.0%	472,000	0.0%
28	144,667,125	8.2%	142,215,388	8.1%	134,274,551	8.2%
29	30,980,883	1.8%	28,498,987	1.6%	27,431,991	1.7%
30	4,767,230	0.3%	5,016,875	0.3%	4,669,124	0.3%
31	27,960	0.0%	29,000	0.0%	24,920	0.0%
32	52,121,129	2.9%	53,187,842	3.0%	48,728,334	3.0%
33	48,617,315	2.8%	51,958,479	3.0%	43,188,471	2.6%
34	799,825	0.0%	778,803	0.0%	762,988	0.0%
35	1,837,445	0.1%	2,235,140	0.1%	2,859,370	0.2%
36	1,866,975	0.1%	1,949,125	0.1%	2,153,992	0.1%
37	41,907,353	2.4%	39,658,980	2.3%	43,262,989	2.6%
38	351,725	0.0%	175,665	0.0%	158,800	0.0%
39	406,030	0.0%	391,110	0.0%	452,080	0.0%
40	50,373,174	2.8%	48,333,452	2.8%	41,026,748	2.5%
41	1,416,804	0.1%	1,536,621	0.1%	2,020,528	0.1%
42	175,575	0.0%	6,594,365	0.4%	6,016,600	0.4%
43	15,160	0.0%	12,160	0.0%	11,400	0.0%
44	0	0.0%	0	0.0%	1,320	0.0%
45	29,920	0.0%	25,960	0.0%	15,480	0.0%
46	112,112,585	6.3%	121,400,665	6.9%	117,578,908	7.2%
47	2,755,520	0.2%	3,344,485	0.2%	2,487,760	0.2%
48	1,126,260	0.1%	1,175,665	0.1%	1,126,476	0.1%
49	181,322,263	10.3%	189,999,289	10.8%	181,999,914	11.1%
50	5,785	0.0%	4,905	0.0%	2,400	0.0%
TOTALS	1,767,897,098	100.0%	1,756,051,805	100.0%	1,641,603,859	100.0%

Figure 1-2. US Origin Top Six Commodity Groups and All Others (3-Year History by Carloads, Revenue, and Tonnage)



Waybills of Canadian Origin

Table 1-10. Canadian Origin 2022 Waybill Sample (Carloads, Revenue, and Tonnage by STCC Code)

2022							
2-Digit STCC	Waybills Sampled	Estimates for Total Population					
		Total Carloads	Percent of Population	Total Revenue	Percent of Population	Total Tonnage	Percent of Population
01	1,355	34,424	2.4%	\$189,085,483	2.7%	3,046,400	3.5%
09	1	40	0.0%	\$31,040	0.0%	480	0.0%
10	215	1,250	0.1%	\$9,772,990	0.1%	107,860	0.1%
11	17	4,104	0.3%	\$14,396,672	0.2%	438,822	0.5%
13	66	15,177	1.0%	\$136,102,196	2.0%	1,475,120	1.7%
14	185	2,331	0.2%	\$8,610,644	0.1%	126,733	0.1%
20	9,401	76,100	5.2%	\$507,446,853	7.3%	6,984,471	7.9%
22	16	640	0.0%	\$1,118,680	0.0%	8,040	0.0%
23	19	760	0.1%	\$1,449,840	0.0%	11,720	0.0%
24	25,803	133,150	9.1%	\$1,273,624,021	18.4%	12,063,505	13.7%
25	29	1,160	0.1%	\$2,813,440	0.0%	18,960	0.0%
26	9,009	52,175	3.6%	\$449,381,660	6.5%	4,111,190	4.7%
27	5	200	0.0%	\$614,800	0.0%	4,280	0.0%
28	13,753	163,035	11.1%	\$778,831,738	11.3%	16,260,020	18.5%
29	2,289	36,302	2.5%	\$221,059,779	3.2%	3,283,134	3.7%
30	237	9,060	0.6%	\$17,572,150	0.3%	130,870	0.1%
31	1	40	0.0%	\$43,640	0.0%	320	0.0%
32	4,455	23,055	1.6%	\$138,436,740	2.0%	2,314,120	2.6%
33	8,742	45,730	3.1%	\$416,549,420	6.0%	4,151,420	4.7%
34	78	3,085	0.2%	\$6,118,110	0.1%	47,060	0.1%
35	87	3,712	0.3%	\$9,811,647	0.1%	52,238	0.1%
36	27	1,030	0.1%	\$2,695,720	0.0%	14,490	0.0%
37	16,294	86,935	5.9%	\$269,063,080	3.9%	1,785,930	2.0%
38	6	240	0.0%	\$400,240	0.0%	2,680	0.0%
39	9	360	0.0%	\$350,240	0.0%	6,040	0.0%
40	4,603	31,045	2.1%	\$92,399,998	1.3%	2,422,035	2.8%
41	23	850	0.1%	\$1,297,580	0.0%	14,705	0.0%
42	89	3,560	0.2%	\$2,115,200	0.0%	1,720	0.0%
46	11,587	463,480	31.7%	\$732,568,200	10.6%	6,884,800	7.8%
48	426	2,550	0.2%	\$17,123,015	0.2%	190,820	0.2%
49	42,244	267,721	18.3%	\$1,610,079,827	23.3%	21,968,053	25.0%
TOTALS	151,071	1,463,301	100.0%	\$6,910,964,643	100.0%	87,928,036	100.0%

Table 1-11. Canadian Origin Carload 3-Year History from Waybill Samples (by STCC Code)

2-Digit STCC	Carload Estimates for Total Population					
	2022		2021		2020	
	Total Carloads	Percent of Population	Total Carloads	Percent of Population	Total Carloads	Percent of Population
01	34,424	2.4%	25,778	1.7%	31,548	2.1%
08	0	0.0%	40	0.0%	80	0.0%
09	40	0.0%	0	0.0%	0	0.0%
10	1,250	0.1%	1,015	0.1%	1,040	0.1%
11	4,104	0.3%	4,124	0.3%	2,226	0.1%
13	15,177	1.0%	0	0.0%	80	0.0%
14	2,331	0.2%	2,518	0.2%	3,200	0.2%
20	76,100	5.2%	80,240	5.4%	77,408	5.0%
21	0	0.0%	40	0.0%	0	0.0%
22	640	0.0%	800	0.1%	1,640	0.1%
23	760	0.1%	2,200	0.1%	1,320	0.1%
24	133,150	9.1%	133,875	9.0%	124,156	8.1%
25	1,160	0.1%	1,560	0.1%	3,240	0.2%
26	52,175	3.6%	48,950	3.3%	46,040	3.0%
27	200	0.0%	40	0.0%	40	0.0%
28	163,035	11.1%	171,048	11.4%	166,897	10.8%
29	36,302	2.5%	10,920	0.7%	10,652	0.7%
30	9,060	0.6%	7,815	0.5%	8,120	0.5%
31	40	0.0%	0	0.0%	120	0.0%
32	23,055	1.6%	24,475	1.6%	21,528	1.4%
33	45,730	3.1%	45,040	3.0%	36,400	2.4%
34	3,085	0.2%	3,085	0.2%	3,320	0.2%
35	3,712	0.3%	4,524	0.3%	4,331	0.3%
36	1,030	0.1%	1,105	0.1%	1,760	0.1%
37	86,935	5.9%	81,845	5.5%	67,312	4.4%
38	240	0.0%	160	0.0%	320	0.0%
39	360	0.0%	1,160	0.1%	1,800	0.1%
40	31,045	2.1%	28,412	1.9%	24,608	1.6%
41	850	0.1%	800	0.1%	1,040	0.1%
42	3,560	0.2%	4,585	0.3%	5,640	0.4%
44	0	0.0%	80	0.0%	0	0.0%
46	463,480	31.7%	467,680	31.3%	568,400	36.9%
48	2,550	0.2%	3,135	0.2%	2,320	0.2%
49	267,721	18.3%	337,174	22.6%	322,299	20.9%
TOTALS	1,463,301	100.0%	1,494,223	100.0%	1,538,885	100.0%

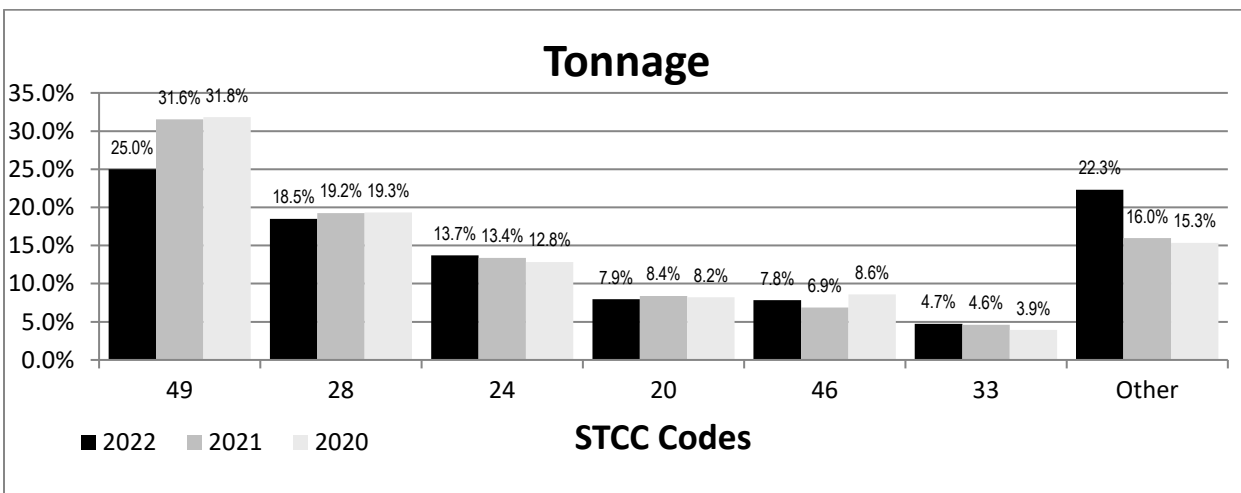
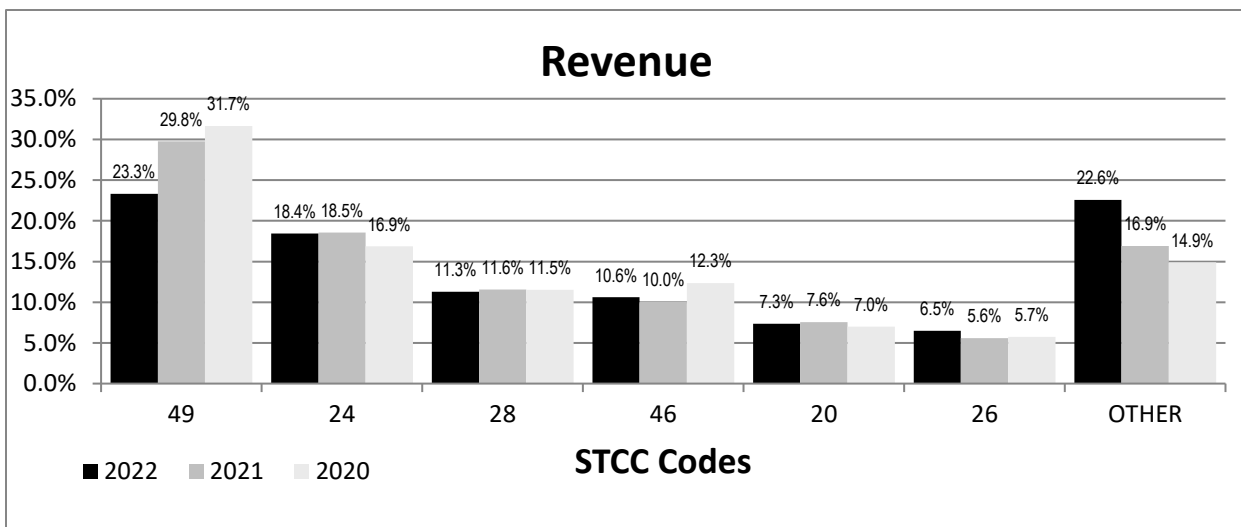
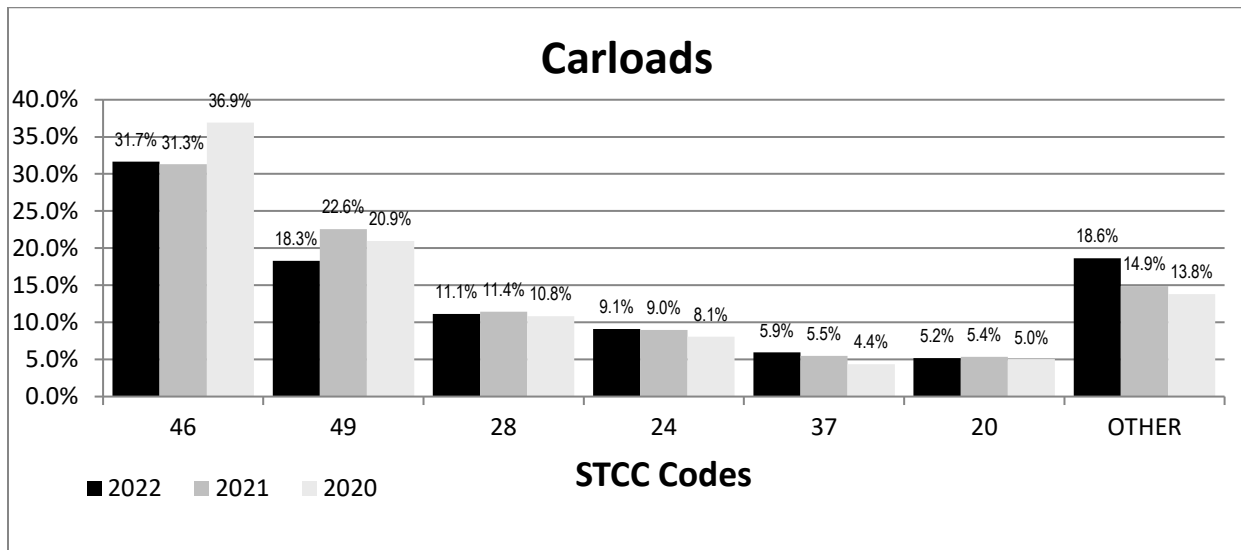
Table 1-12. Canadian Origin Revenue 3-Year History from Waybill Samples (by STCC Code)

2-Digit STCC	Revenue Estimates for Total Population					
	2022		2021		2020	
	Total Revenue	Percent of Population	Total Revenue	Percent of Population	Total Revenue	Percent of Population
01	\$189,085,483	2.7%	\$128,339,349	2.1%	\$152,519,414	2.6%
08	\$0	0.0%	\$78,760	0.0%	\$107,560	0.0%
09	\$31,040	0.0%	\$0	0.0%	\$0	0.0%
10	\$9,772,990	0.1%	\$6,768,645	0.1%	\$6,404,760	0.1%
11	\$14,396,672	0.2%	\$13,264,436	0.2%	\$8,653,496	0.1%
13	\$136,102,196	2.0%	\$0	0.0%	\$88,760	0.0%
14	\$8,610,644	0.1%	\$8,143,134	0.1%	\$5,779,320	0.1%
20	\$507,446,853	7.3%	\$453,718,907	7.6%	\$407,347,574	7.0%
21	\$0	0.0%	\$58,800	0.0%	\$0	0.0%
22	\$1,118,680	0.0%	\$1,371,720	0.0%	\$2,781,800	0.0%
23	\$1,449,840	0.0%	\$3,816,720	0.1%	\$1,414,000	0.0%
24	\$1,273,624,021	18.4%	\$1,113,172,660	18.5%	\$982,945,432	16.9%
25	\$2,813,440	0.0%	\$2,656,600	0.0%	\$3,203,280	0.1%
26	\$449,381,660	6.5%	\$335,796,310	5.6%	\$333,900,280	5.7%
27	\$614,800	0.0%	\$21,960	0.0%	\$26,520	0.0%
28	\$778,831,738	11.3%	\$694,876,834	11.6%	\$671,348,243	11.5%
29	\$221,059,779	3.2%	\$54,921,401	0.9%	\$51,201,580	0.9%
30	\$17,572,150	0.3%	\$12,813,020	0.2%	\$10,301,400	0.2%
31	\$43,640	0.0%	\$0	0.0%	\$118,000	0.0%
32	\$138,436,740	2.0%	\$119,732,960	2.0%	\$110,805,480	1.9%
33	\$416,549,420	6.0%	\$327,779,355	5.5%	\$244,372,720	4.2%
34	\$6,118,110	0.1%	\$4,774,205	0.1%	\$5,340,720	0.1%
35	\$9,811,647	0.1%	\$18,791,502	0.3%	\$17,099,314	0.3%
36	\$2,695,720	0.0%	\$2,214,045	0.0%	\$3,054,960	0.1%
37	\$269,063,080	3.9%	\$212,051,103	3.5%	\$168,730,984	2.9%
38	\$400,240	0.0%	\$244,560	0.0%	\$419,600	0.0%
39	\$350,240	0.0%	\$1,014,880	0.0%	\$1,621,840	0.0%
40	\$92,399,998	1.3%	\$73,373,673	1.2%	\$57,914,864	1.0%
41	\$1,297,580	0.0%	\$1,428,520	0.0%	\$1,628,120	0.0%
42	\$2,115,200	0.0%	\$1,463,495	0.0%	\$2,553,120	0.0%
44	\$0	0.0%	\$159,080	0.0%	\$0	0.0%
46	\$732,568,200	10.6%	\$602,159,800	10.0%	\$719,485,960	12.3%
48	\$17,123,015	0.2%	\$20,654,480	0.3%	\$13,160,160	0.2%
49	\$1,610,079,827	23.3%	\$1,787,291,979	29.8%	\$1,846,576,925	31.7%
TOTALS	\$6,910,964,643	100.0%	\$6,002,952,893	100.0%	\$5,830,906,186	100.0%

Table 1-13. Canadian Origin Tonnage 3-Year History from Waybill Samples (by STCC Code)

Tonnage Estimates for Total Population						
2-Digit STCC	2022		2021		2020	
	Total Tonnage	Percent of Population	Total Tonnage	Percent of Population	Total Tonnage	Percent of Population
01	3,046,400	3.5%	2,160,993	2.4%	2,797,384	3.2%
08	0	0.0%	840	0.0%	1,640	0.0%
09	480	0.0%	0	0.0%	0	0.0%
10	107,860	0.1%	93,905	0.1%	91,680	0.1%
11	438,822	0.5%	423,482	0.5%	222,990	0.3%
13	1,475,120	1.7%	0	0.0%	1,160	0.0%
14	126,733	0.1%	131,782	0.1%	134,520	0.2%
20	6,984,471	7.9%	7,515,006	8.4%	7,114,768	8.2%
21	0	0.0%	160	0.0%	0	0.0%
22	8,040	0.0%	10,680	0.0%	19,640	0.0%
23	11,720	0.0%	31,560	0.0%	16,160	0.0%
24	12,063,505	13.7%	12,006,110	13.4%	11,132,760	12.8%
25	18,960	0.0%	24,760	0.0%	47,520	0.1%
26	4,111,190	4.7%	3,761,205	4.2%	3,613,080	4.2%
27	4,280	0.0%	240	0.0%	760	0.0%
28	16,260,020	18.5%	17,266,545	19.2%	16,776,876	19.3%
29	3,283,134	3.7%	859,448	1.0%	819,716	0.9%
30	130,870	0.1%	104,900	0.1%	102,880	0.1%
31	320	0.0%	0	0.0%	1,560	0.0%
32	2,314,120	2.6%	2,443,510	2.7%	2,148,172	2.5%
33	4,151,420	4.7%	4,116,535	4.6%	3,397,440	3.9%
34	47,060	0.1%	48,470	0.1%	44,640	0.1%
35	52,238	0.1%	48,744	0.1%	65,071	0.1%
36	14,490	0.0%	14,720	0.0%	19,400	0.0%
37	1,785,930	2.0%	1,638,961	1.8%	1,192,680	1.4%
38	2,680	0.0%	1,120	0.0%	2,560	0.0%
39	6,040	0.0%	17,880	0.0%	25,080	0.0%
40	2,422,035	2.8%	2,245,295	2.5%	1,744,092	2.0%
41	14,705	0.0%	10,640	0.0%	13,480	0.0%
42	1,720	0.0%	20,345	0.0%	28,320	0.0%
44	0	0.0%	600	0.0%	0	0.0%
46	6,884,800	7.8%	6,174,080	6.9%	7,438,240	8.6%
48	190,820	0.2%	222,800	0.2%	148,080	0.2%
49	21,968,053	25.0%	28,303,979	31.6%	27,609,718	31.8%
TOTALS	87,928,036	100.0%	89,699,295	100.0%	86,772,067	100.0%

Figure 1-3. Canadian Origin Top Six Commodity Groups and All Others (3-Year History by Carloads, Revenue, and Tonnage)



Waybills of Mexican Origin

Table 1-14. Mexican Origin 2022 Waybill Sample (Carloads, Revenue, and Tonnage by STCC Code)

2022							
2-Digit STCC	Waybills Sampled	Estimates for Total Population					
		Total Carloads	Percent of Population	Total Revenue	Percent of Population	Total Tonnage	Percent of Population
14	637	3,185	6.3%	\$3,492,945	1.2%	353,465	17.8%
20	229	3,140	6.2%	\$17,145,355	5.7%	96,710	4.9%
22	2	80	0.2%	\$368,440	0.1%	1,880	0.1%
23	1	40	0.1%	\$149,800	0.0%	400	0.0%
24	42	1,680	3.3%	\$7,764,880	2.6%	16,800	0.8%
25	17	680	1.3%	\$3,249,600	1.1%	6,640	0.3%
26	58	640	1.3%	\$3,688,965	1.2%	26,205	1.3%
28	206	1,590	3.1%	\$14,083,000	4.7%	91,200	4.6%
29	2	10	0.0%	\$57,905	0.0%	785	0.0%
30	75	3,000	5.9%	\$9,569,400	3.2%	31,800	1.6%
32	410	2,225	4.4%	\$17,475,355	5.8%	195,100	9.8%
33	680	3,400	6.7%	\$32,895,880	10.9%	299,465	15.1%
34	25	405	0.8%	\$2,238,170	0.7%	11,595	0.6%
35	47	725	1.4%	\$4,305,835	1.4%	9,340	0.5%
36	1,401	10,190	20.1%	\$83,396,230	27.7%	132,075	6.7%
37	2,052	13,200	26.0%	\$63,155,850	21.0%	328,715	16.6%
38	8	320	0.6%	\$1,130,600	0.4%	4,000	0.2%
39	24	960	1.9%	\$2,845,720	0.9%	7,440	0.4%
40	591	2,990	5.9%	\$21,872,625	7.3%	283,270	14.3%
41	3	120	0.2%	\$401,000	0.1%	1,200	0.1%
42	4	160	0.3%	\$102,360	0.0%	0	0.0%
46	30	1,200	2.4%	\$2,483,680	0.8%	11,200	0.6%
49	164	855	1.7%	\$9,297,145	3.1%	71,530	3.6%
TOTALS	6,708	50,795	100.0%	\$301,170,740	100.0%	1,980,815	100.0%

Table 1-15. Mexican Origin Carload 3-Year History from Waybill Samples (by STCC Code)

2-Digit STCC	Carload Estimates for Total Population					
	2022		2021		2020	
	Total Carloads	Percent of Population	Total Carloads	Percent of Population	Total Carloads	Percent of Population
14	3,185	6.3%	3,200	5.2%	2,720	5.7%
20	3,140	6.2%	3,585	5.9%	2,640	5.6%
22	80	0.2%	40	0.1%	0	0.0%
23	40	0.1%	480	0.8%	200	0.4%
24	1,680	3.3%	205	0.3%	120	0.3%
25	680	1.3%	1,360	2.2%	1,160	2.4%
26	640	1.3%	770	1.3%	240	0.5%
28	1,590	3.1%	1,595	2.6%	1,520	3.2%
29	10	0.0%	0	0.0%	0	0.0%
30	3,000	5.9%	2,040	3.3%	320	0.7%
32	2,225	4.4%	725	1.2%	440	0.9%
33	3,400	6.7%	3,520	5.8%	1,920	4.0%
34	405	0.8%	495	0.8%	280	0.6%
35	725	1.4%	2,545	4.2%	2,080	4.4%
36	10,190	20.1%	12,255	20.1%	10,600	22.3%
37	13,200	26.0%	23,400	38.3%	18,360	38.7%
38	320	0.6%	160	0.3%	0	0.0%
39	960	1.9%	0	0.0%	120	0.3%
40	2,990	5.9%	3,105	5.1%	3,320	7.0%
41	120	0.2%	120	0.2%	40	0.1%
42	160	0.3%	0	0.0%	0	0.0%
46	1,200	2.4%	360	0.6%	400	0.8%
49	855	1.7%	1,140	1.9%	1,000	2.1%
TOTALS	50,795	100.0%	61,100	100.0%	47,480	100.0%

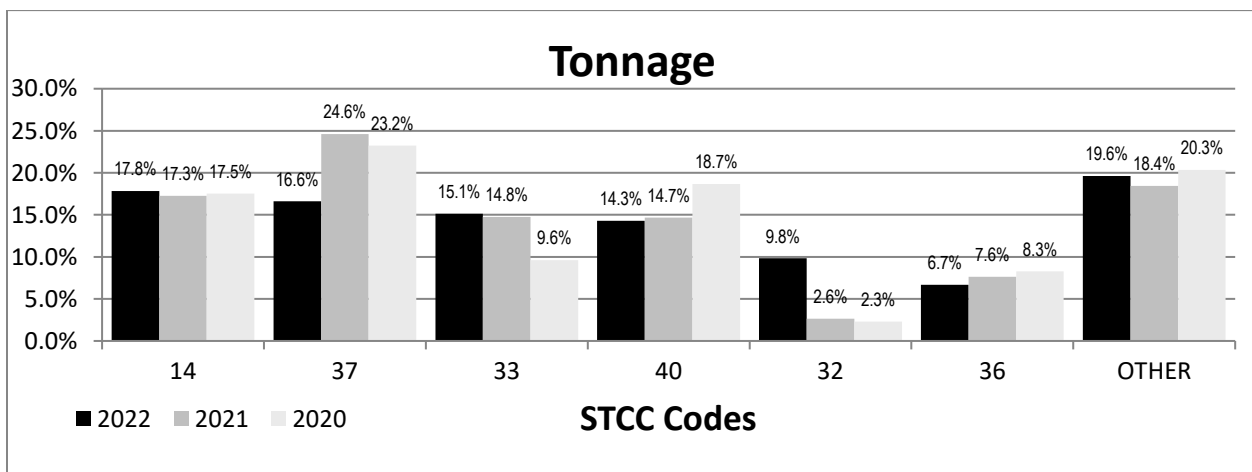
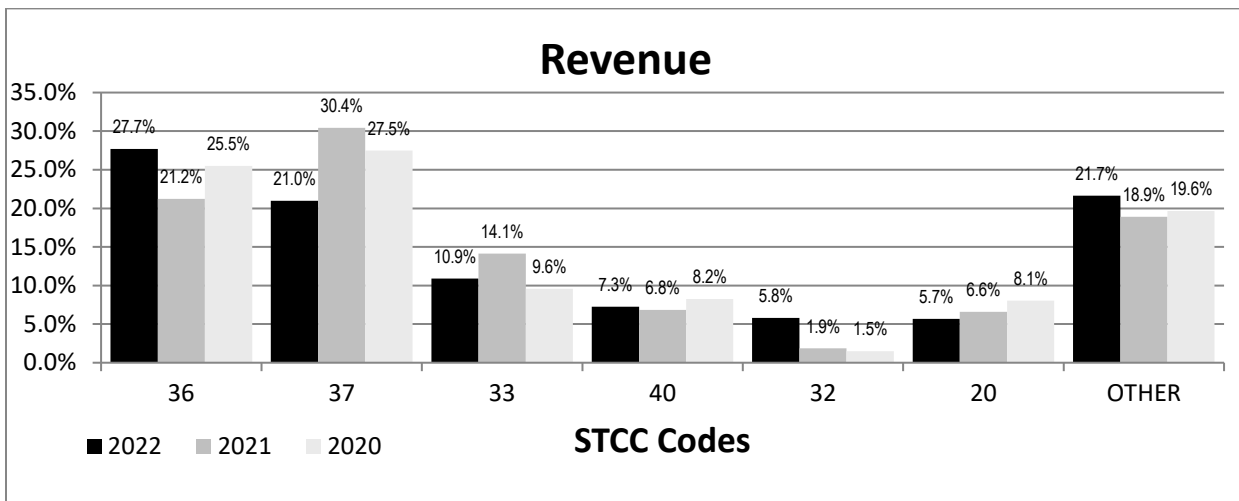
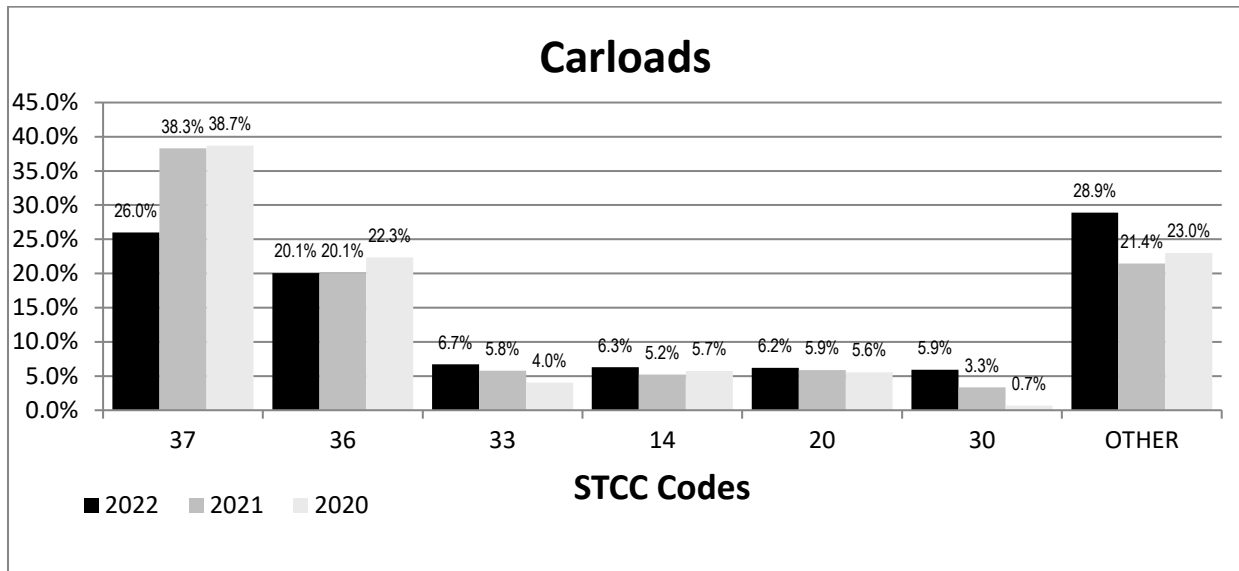
Table 1-16. Mexican Origin Revenue 3-Year History from Waybill Samples (by STCC Code)

2-Digit STCC	Revenue Estimates for Total Population					
	2022		2021		2020	
	Total Revenue	Percent of Population	Total Revenue	Percent of Population	Total Revenue	Percent of Population
14	\$3,492,945	1.2%	\$3,216,585	1.3%	\$2,658,080	1.3%
20	\$17,145,355	5.7%	\$16,786,550	6.6%	\$16,183,280	8.1%
22	\$368,440	0.1%	\$161,480	0.1%	\$0	0.0%
23	\$149,800	0.0%	\$1,921,920	0.8%	\$766,800	0.4%
24	\$7,764,880	2.6%	\$915,710	0.4%	\$544,840	0.3%
25	\$3,249,600	1.1%	\$5,702,080	2.2%	\$4,511,600	2.2%
26	\$3,688,965	1.2%	\$3,361,845	1.3%	\$1,671,640	0.8%
28	\$14,083,000	4.7%	\$11,106,425	4.4%	\$12,981,440	6.5%
29	\$57,905	0.0%	\$0	0.0%	\$0	0.0%
30	\$9,569,400	3.2%	\$6,164,200	2.4%	\$1,036,680	0.5%
32	\$17,475,355	5.8%	\$4,740,965	1.9%	\$3,022,080	1.5%
33	\$32,895,880	10.9%	\$36,017,850	14.1%	\$19,196,320	9.6%
34	\$2,238,170	0.7%	\$1,443,140	0.6%	\$2,620,760	1.3%
35	\$4,305,835	1.4%	\$6,705,365	2.6%	\$5,501,200	2.7%
36	\$83,396,230	27.7%	\$54,139,285	21.2%	\$51,188,280	25.5%
37	\$63,155,850	21.0%	\$77,632,770	30.4%	\$55,187,600	27.5%
38	\$1,130,600	0.4%	\$165,120	0.1%	\$0	0.0%
39	\$2,845,720	0.9%	\$0	0.0%	\$492,160	0.2%
40	\$21,872,625	7.3%	\$17,419,380	6.8%	\$16,557,200	8.2%
41	\$401,000	0.1%	\$229,520	0.1%	\$19,200	0.0%
42	\$102,360	0.0%	\$0	0.0%	\$0	0.0%
46	\$2,483,680	0.8%	\$1,482,120	0.6%	\$1,544,840	0.8%
49	\$9,297,145	3.1%	\$5,659,515	2.2%	\$5,081,920	2.5%
TOTALS	\$301,170,740	100.0%	\$254,971,825	100.0%	\$200,765,920	100.0%

Table 1-17. Mexican Origin Tonnage 3-Year History from Waybill Samples (by STCC Code)

2-Digit STCC	Tonnage Estimates for Total Population					
	2022		2021		2020	
	Total Tonnage	Percent of Population	Total Tonnage	Percent of Population	Total Tonnage	Percent of Population
14	353,465	17.8%	355,130	17.3%	304,560	17.5%
20	96,710	4.9%	96,680	4.7%	118,360	6.8%
22	1,880	0.1%	960	0.0%	0	0.0%
23	400	0.0%	4,800	0.2%	2,000	0.1%
24	16,800	0.8%	2,500	0.1%	1,200	0.1%
25	6,640	0.3%	13,280	0.6%	11,520	0.7%
26	26,205	1.3%	25,780	1.3%	7,240	0.4%
28	91,200	4.6%	110,580	5.4%	106,320	6.1%
29	785	0.0%	0	0.0%	0	0.0%
30	31,800	1.6%	22,760	1.1%	3,800	0.2%
32	195,100	9.8%	54,140	2.6%	39,800	2.3%
33	299,465	15.1%	303,875	14.8%	167,120	9.6%
34	11,595	0.6%	6,940	0.3%	12,960	0.7%
35	9,340	0.5%	26,825	1.3%	22,600	1.3%
36	132,075	6.7%	156,800	7.6%	143,720	8.3%
37	328,715	16.6%	506,695	24.6%	403,800	23.2%
38	4,000	0.2%	2,560	0.1%	0	0.0%
39	7,440	0.4%	0	0.0%	1,200	0.1%
40	283,270	14.3%	302,125	14.7%	324,560	18.7%
41	1,200	0.1%	2,080	0.1%	640	0.0%
42	0	0.0%	0	0.0%	0	0.0%
46	11,200	0.6%	3,600	0.2%	4,000	0.2%
49	71,530	3.6%	59,945	2.9%	61,640	3.5%
TOTALS	1,980,815	100.0%	2,058,055	100.0%	1,737,040	100.0%

Figure 1-4. Mexican Origin Top Six Commodity Groups and All Others (3-Year History by Carloads, Revenue, and Tonnage)



SECTION 2 Error Analysis and Corrective Action

During final editing stage, all data fields of the waybill are evaluated. In the case of missing or illogical data one of 81 error flags may be placed at the end of the waybill record to alert the data user to data exceptions. In addition, any data fields with a value beyond the normal range seen in the industry (e.g., cars loaded with excessively heavy weights or waybills with excessively high revenues per car), or those depicting out-of-the-ordinary movements (e.g., the movements of COFC containers in non-intermodal units), will also be flagged. These error flags are used to mainly identify missing data and to alert the person costing the waybill to abnormalities not usually taken into account by default values in Rail Form A or UCRS costing.

[Table 2-2](#) lists Proxy Equipment Types for the 2022 Carload Waybill Sample

Listed below are the types of errors found in the 2022 data. In each case, these “errors” are concerned with equipment registration in the Umler file.

Error Code(s)	Explanation and Corrective Action to be Taken.
08 / 13	<p>These errors are due to the fact that not all intermodal equipment (error code 13) and not all rail cars (error code 08) are listed in Umler.</p> <p>To provide more complete data, Railinc has flagged privately owned intermodal units since 1994 thus accounting for the large increase in intermodal error. While there has been an increase in reporting of private intermodal units, many of these units are still not reported in Umler.</p> <p>As the gross ton-mile is a dominant factor in rail costing, the type (and weight) of the car should be known. These equipment identification “errors” accounted for 100.0% of all primary waybill errors.</p> <p>Using the loading patterns exhibited in the 2005 data, the Surface Transportation Board has allowed the Railinc processing team to use proxy container or trailer types when the reported unit type is unknown or not registered in Umler.</p>

Table 2-1. Error Codes and Messages

Code	Message
01	<p>INTERMODAL LOAD COUNT GREATER THAN CAR COUNT * 3</p> <p>The intermodal load count should be numeric, not zero, and not greater than 3 times the car count.</p>
02	<p>INVALID WAYBILL NUMBER</p> <p>The waybill number must be numeric.</p>
03	<p>INVALID WAYBILL DATE</p> <p>The waybill date must fall before December 31, 2022. The waybill was not processed for the current waybill year if the date was out of bounds.</p>
04	<p>INVALID ACCOUNTING PERIOD</p> <p>The accounting period date must be numeric. The month must be greater than '0' and less than '17'.</p> <p>Note: Accounting period months 13, 14, 15 and 16 are valid if the road submits quarterly (13 = First Quarter, 14 = Second Quarter, etc.).</p>
05	<p>INVALID CARLOAD FIELD</p> <p>The carload field must be numeric and greater than zero.</p>
06	<p>INVALID CAR INITIAL</p> <p>The car initial cannot be blank or numeric and must be registered as a roadmark.</p>
07	<p>INVALID CAR NUMBER</p> <p>The car number must be numeric.</p>
08	<p>UMLER RECORD NOT FOUND</p> <p>The unit initial and number combination was not found in the Umler file on the waybill date.</p>

Code	Message
09	<p>INVALID TOFC/COFC SERVICE CODE</p> <p>The TOFC/COFC Service Code (STB Alternate Code) specified is not a valid code.</p>
10	<p>INVALID TOFC/COFC LOAD COUNT</p> <p>If a TOFC/COFC move is indicated, the number of TOFC/COFC units (load count) must be numeric, and either (1) less than the sum of waybill carloads multiplied by three, or (2) identified as a valid stack train movement.</p>
11	<p>INVALID TOFC/COFC CAR INITIAL</p> <p>If a TOFC/COFC move is indicated, the TOFC/COFC initial cannot be blank or numeric.</p>
12	<p>INVALID TOFC/COFC CAR NUMBER</p> <p>If a TOFC/COFC move is indicated, the TOFC/COFC number must be numeric and must not be all zeros or all nines.</p>
13	<p>NO TC UMLER RECORD FOUND</p> <p>The TOFC/COFC unit initial and number combination could not be found in the Umler File on the waybill date.</p>
14	<p>UMLER CAR TYPE CODE NOT P, Q, OR S</p> <p>The car initial and number combination is not assigned to an intermodal TOFC/COFC flat car. If the car carrying TOFC/COFC is not a flat car of any type, flag 55 is placed in the error field.</p>
15	<p>INVALID STCC NUMBER</p> <p>The STCC number could not be found in the Master File.</p>
16	<p>INVALID BILLED WEIGHT</p> <p>The billed weight field must be numeric.</p>

Code	Message
17	INVALID ACTUAL WEIGHT If the actual weight field is not blank, it must be numeric.
18	INVALID FREIGHT REVENUE The freight revenue must be numeric. If the freight revenue amount is zero, the transit code must be either '1' or '9'. The freight revenue amount, divided by the number of waybill carloads, cannot be less than 1 or greater than the table look-up value (by two-digit STCC). The range represents positive values plus and minus 4 standard deviations from the mean.
19	INVALID TRANSIT CHARGE If the transit charge field is not blank, it must be numeric.
20	INVALID MISC CHARGE If the miscellaneous charge field is not blank, it must be numeric.
21	INVALID TRANSIT CODE The transit code must be either '0', '1' or '9'.
22	INVALID INTERMODAL CODE The intermodal code must be either '1', '2' or '9'.
23	NOT USED
24	INVALID TYPE-MOVE-BY-WATER The type-move-by-water code must be either '0', '1', '2', '3', '4' or '5'.
25	INVALID TRUCK-FOR-RAIL CODE The truck-for-rail code must be either '0', '1' or '9'.
27	INVALID REBILL CODE The rebill code must be either '0', '1', '2' or '3'.

Code	Message
28	<p data-bbox="391 289 743 321">INVALID STRATUM ID</p> <p data-bbox="391 342 1398 411">Stratum ID will be calculated based on the number of non-intermodal carloads or intermodal trailer/container units (TSUs) on the waybill.</p> <ul data-bbox="444 432 987 789" style="list-style-type: none"> <li data-bbox="444 432 911 464">• 1-2 carloads, the stratum ID is 1. <li data-bbox="444 495 927 527">• 3-15 carloads, the stratum ID is 2. <li data-bbox="444 558 943 590">• 16-60 carloads, the stratum ID is 3. <li data-bbox="444 621 959 653">• 61-100 carloads, the stratum ID is 4. <li data-bbox="444 684 987 716">• 101-9999 carloads, the stratum ID is 5. <li data-bbox="444 747 878 779">• 1-2 TSUs, the stratum ID is 6.
29	<p data-bbox="391 846 781 877">INVALID SUBSAMPLE ID</p> <p data-bbox="391 898 1409 968">The subsample ID must be either '1', '2', '3' or '4'. Enter code 9 for optional study where there is 100% selection of all waybills.</p>
31	<p data-bbox="391 1024 938 1056">INVALID REPORTING 260 NUMBER</p> <p data-bbox="391 1077 1289 1108">The reporting 260 number was not found in the Railroad Register file.</p>
32	<p data-bbox="391 1171 797 1203">ORIGIN FSAC NOT VALID</p> <p data-bbox="391 1224 1344 1293">The Origin FSAC and 260 number combinations could not be found in the Centralized Station Master.</p>
33	<p data-bbox="391 1350 867 1381">INVALID ORIGIN 260 NUMBER</p> <p data-bbox="391 1402 1403 1472">The Rule 260 number for the origin railroad could not be found in the Railroad Register file.</p>
34	<p data-bbox="391 1528 927 1560">1ST RULE 260 ABBREV IS INVALID</p> <p data-bbox="391 1581 1398 1612">The Rule 260 junction abbreviation could not be found in the Junction Master.</p>

Code	Message
35	<p>1ST 260 NUMBER IS INVALID</p> <p>The Rule 260 number for the 1st bridge railroad could not be found in the Railroad Register file.</p>
36	<p>2ND RULE 260 ABBREV IS INVALID</p> <p>The Rule 260 junction abbreviation could not be found in the Junction Master.</p>
37	<p>2ND 260 NUMBER IS INVALID</p> <p>The Rule 260 number for the 2nd bridge railroad could not be found in the Railroad Register file.</p>
38	<p>3RD RULE 260 ABBREV IS INVALID</p> <p>The Rule 260 junction abbreviation could not be found in the Junction Master.</p>
39	<p>3RD 260 NUMBER IS INVALID</p> <p>The Rule 260 number for the 3rd bridge railroad could not be found in the Railroad Register file.</p>
40	<p>4TH RULE 260 ABBREV IS INVALID</p> <p>The Rule 260 junction abbreviation could not be found in the Junction Master.</p>
41	<p>4TH 260 NUMBER IS INVALID</p> <p>The Rule 260 number for the 4th bridge railroad could not be found in the Railroad Register file.</p>
42	<p>5TH RULE 260 ABBREV IS INVALID</p> <p>The Rule 260 junction abbreviation could not be found in the Junction Master.</p>
43	<p>5TH 260 NUMBER IS INVALID</p> <p>The Rule 260 number for the 5th bridge railroad could not be found in the Railroad Register file.</p>

Code	Message
44	6TH RULE 260 ABBREV IS INVALID The Rule 260 junction abbreviation could not be found in the Junction Master.
45	6TH 260 NUMBER IS INVALID The Rule 260 number for the 6th bridge railroad could not be found in the Railroad Register file.
46	7TH RULE 260 ABBREV IS INVALID The Rule 260 junction abbreviation could not be found in the Junction Master.
47	7TH 260 NUMBER IS INVALID The Rule 260 number for the 7th bridge railroad could not be found in the Railroad Register file.
48	8TH RULE 260 ABBREV IS INVALID The Rule 260 junction abbreviation could not be found in the Junction Master.
49	8TH 260 NUMBER IS INVALID The Rule 260 number for the 8th bridge railroad could not be found in the Railroad Register file.
50	9TH RULE 260 ABBREV IS INVALID The Rule 260 junction abbreviation could not be found in the Junction Master.
51	INVALID TERMINATION 260 NUMBER The Rule 260 number for the termination railroad could not be found in the Railroad Register file.
52	TERM FSAC NOT VALID The termination FSAC and Rule 260 railroad number combination could not be found in the Centralized Station Master.

Code	Message
53	TERM RAILROAD NOT REPORTING RAILROAD Terminating railroad must be equal to reporting railroad.
54	REVENUE AMOUNT IS ZERO If the revenue amount is zero, the transit code must be '1' or '9'.
55	INTERMODAL UMLER REC IS NOT A FLAT CAR The car carrying the TOFC/COFC unit is not a flat car of any type (i.e., Q, P, S or F). (Refer to error flag 14)
56	REVENUE PER TONMILE The revenue per ton mile is not in the range established for the 2-digit STCC.
57	BILLED WEIGHT CAPACITY Billed weight is greater than load limit.
58	TRANSBORDER Transborder code must be '0' or '1'.
59	CONTRACT Contract code must be '0' or '1'.
60	FUEL SURCHARGE The fuel surcharge should contain only digits if positive value, or a negative sign followed by all digits if negative value.
61	BILLED WEIGHT EXCEEDS UMLER'S MAX-WEIGHT-ON-RAIL Billed weight should be less than the maximum weight defined in Umler.
62	ACTUAL WEIGHT EXCEEDS UMLER'S MAX-WEIGHT-ON-RAIL Actual weight should be less than the maximum weight defined in Umler.
63	INVALID POPULATION COUNT The population count must be numeric.

Code	Message
64	INVALID NO OF WAYBILLS The number of waybills field must be numeric.
65	INVALID REPORTING FREQUENCY The reporting frequency must be either '1' or '2'.
66	INVALID SERIAL NUMBER The serial number must be numeric.
67	TOFC/COFC INITIAL WAS NOT FOUND IN MARK REGISTER Intermodal car initial must be a valid registered mark in the Railroad Register file.
68	FUEL SURCHARGE IS MORE THAN TOTAL FRIGHT REVENUE The fuel surcharge should be less than the total freight revenue.
69	FIRST RULE INTERCHANGE IS MISSING Although an interline shipment is indicated, no first junction information has been provided.
70	SECOND RULE INTERCHANGE IS MISSING Although an interline shipment is indicated, no second junction information has been provided.
71	THIRD RULE INTERCHANGE IS MISSING Although an interline shipment is indicated, no third junction information has been provided.
72	FOURTH RULE INTERCHANGE IS MISSING Although an interline shipment is indicated, no fourth junction information has been provided.

Code	Message
73	FIFTH RULE INTERCHANGE IS MISSING Although an interline shipment is indicated, no fifth junction information has been provided.
74	SIXTH RULE INTERCHANGE IS MISSING Although an interline shipment is indicated, no sixth junction information has been provided.
75	SEVENTH RULE INTERCHANGE IS MISSING Although an interline shipment is indicated, no seventh junction information has been provided.
76	THE FSAC DOES NOT MATCH THE ORIGIN ROAD The FSAC does not match the origin road in the Centralized Station Master.
77	THE FSAC DOES NOT MATCH THE TERMINATING ROAD The FSAC does not match the terminating road in the Centralized Station Master.
78	FUEL SURCHARGE IS MORE THAN TOTAL FREIGHT REVENUE The fuel surcharge should not be more than 30% of total freight revenue.
79	FUEL AND MISC CHARGES ARE EQUAL Fuel and miscellaneous charges should not be equal.
80	MISC CHARGES ARE MORE THAN FUEL CHARGE Miscellaneous charges should not be more than 20% of fuel charge.
81	INVALID DUMMY CAR REPORTING Use AARX999999 for dummy car reporting.

2022 Reporting Railroads

Monthly Reporting Road

Burlington Northern & Santa Fe (BNSF—777)
Canadian National (CN—103)
C P Rail System (CPRS—105)
CSX Transportation (CSXT—712)
Kansas City Southern (KCS—400)
Norfolk Southern (NS—555)
Union Pacific (UP—802)

Quarterly Reporting Roads

Alabama and Gulf Coast Railway (AGR—127)
Arkansas Louisiana & Mississippi (ALM—016)
Apache Railway (APA—011)
Atlantic & Western Railway (ATW—025)
Bay Line (BAYL—088)
Birmingham Terminal Railway (BHRR—849)
Buffalo & Pittsburgh (BPRR—154)
Columbus & Greenville (CAGY—177)
Cedar Rapids & Iowa City (CIC—111)
Central Maine and Quebec (CMQ—622)
Chattahoochee Industrial Railroad (CIRR—222)
Columbia & Cowlitz Railway (CLC—163)
Chicago South Shore & South Bend (CSS—168)
DeQueen and Eastern (DQE—200)
Escanaba & Lake Superior Railroad (ELS—241)
Evansville Western Railway (EVWR—155)
Florida East Coast (FEC—263)
Georgia Central Railway (GC—395)
Iowa Interstate Railroad (IAIS—316)
Illinois & Midland Railroad (IMRR—361)
Indiana Rail Road (INRD—780)
Louisville & Indiana Railroad (LIRC—434)
Little Rock & Western Railway (LRWN—485)
Lake Superior and Ishpeming (LSI—425)
Lake State Railway (LSRC—408)
Maryland Midland Railway (MMID—495)
M&B Railroad (MNBR—480)
Montana Rail Link (MRL—871)
Mississippi Export Railroad (MSE—506)

New England Central Railroad (NECR—496)
New York & Atlantic Railway (NYA—501)
New York Susquehanna & Western (NYSW—546)
Paducah & Louisville (PAL—907)
Providence and Worcester (PW—631)
Red River Valley (RRVW—321)
Rochester & Southern (RSR—941)
Sand Springs Railway (SS—707)
ST Rail System (ST—746)
Twin Cities & Western (TCWR—768)
Toledo Peoria & Western (TPW—769)
Tomahawk Railway (TR—772)
Trona Railway (TRC—779)
Valdosta Railway (VR—861)
Vermont Railway (VTR—817)
Wheeling & Lake Erie (WE—856)
Wisconsin & Southern (WSOR—879)

Proxy Equipment Types for the 2022 Carload Waybill Sample

The proxy equipment type codes are used to fill in waybill records with missing car type values. The car type fields are AAR Equipment Type Codes (columns 298-301 in 445-byte file; 286- 289 in 913-byte file) and Mechanical Designation (columns 302-305 in the 445-byte file; 290-293 in 913-byte file).

The proxy equipment type code for a 5-digit STCC code is the most popular car type for that STCC code in the current year waybill sample. If all waybills for that STCC are missing the car types in that year, the one from previous year's sample is chosen. If the STCC does not occur in the previous year's sample, the most popular equipment type code for the closest STCC code is selected.

Table 2-2. Proxy Equipment Types—2022 Carload Waybill Sample

0113110C113LO	2037315R660RP	2421446P435FC	2871236C113LO	3352910F126FMS	4904210T389T
0113210C113LO	2037361R660RP	2429110P435FC	2899113B314XM	3423927P435FC	4904350P435FC
0113215C113LO	2041110C614LO	2432158A403XP	2899885T106T	3429912P435FC	4904540P435FC
0113230C113LO	2041210C113LO	2439120F483FBC	2899980C713LO	3519952A603XP	4904587P435FC
0113310C113LO	2041953C114LO	2499110A606XP	2911791T106T	3534155P435FC	4905419T389T
0113655C114LO	2041983A302XP	2499238F483FBC	2952190P435FC	3633130A603XP	4905421T389T
0113710C113LO	2042175C114LO	2499610A606XP	2991314H351HT	3711120V411FA	4905709P435FC
0113930C114LO	2042179C113LO	2499615A403XP	2991315C113LO	3711215V971FA	4905716P435FC
0114110B314XM	2044310C313LO	2519990P435FC	2991425H350HT	3714720P435FC	4905752T389T
0114410C113LO	2046115T104T	2611135A302XP	3011110P435FC	3714920P435FC	4910185P435FC
0115110P435FC	2061930C113LO	2611137A432XL	3011115P435FC	3714995P435FC	4910242T389T
0115925P435FC	2062110C314LO	2621115A405XP	3021110P435FC	3729940F126FMS	4910280P435FC
0115970A302XP	2071110P435FC	2621216A405XP	3071145P435FC	3741110D113D	4910432P435FC
0115991P435FC	2082110R600RB	2621345A405XP	3071643P435FC	3742210R660RP	4912271P435FC
0119510R470RPL	2084120P435FC	2621912P435FC	3241110C112LO	3742213C214LO	4914205T105T
0134190C113LO	2085945C114LO	2631117A302XP	3241115C112LO	3742214C113LO	4917473T106T
0139990P435FC	2087150P435FC	2647110P435FC	3274110C113LO	3742217C214LO	4918689C113LO
1011310K180HMA	2092110T107T	2649990P435FC	3295231C113LO	3742239C214LO	4925202T375T
1011320K280HMA	2092314C114LO	2651157P435FC	3295232C113LO	3742263C214LO	4925212T106T
1121210J311GT	2093939C114LO	2731190P435FC	3295234C614LO	3742293T105T	4929119E534GBS
1121290J311GT	2099515P435FC	2741120P435FC	3295950C112LO	3742294H350HT	4930040T054T
1421930H350HT	2099520P435FC	2812190P435FC	3295956T104T	3742297H351HT	4930207P435FC
1421965K340HTS	2099991P435FC	2812358C112LO	3295960C113LO	3742298A806XP	4930216P435FC
1421990H340HM	2279940P435FC	2812518T104T	3311115E530GBS	3742299M110MWB	4930228T055T
1441190H340HM	2399989P435FC	2812534C113LO	3311116E530GBS	3914160P435FC	4931320T097T
1441230K380HMA	2399990P435FC	2812552C113LO	3312120E530GBS	4011208C112LO	4935225P435FC
1441290K344HTS	2411110F241FB	2812567C113LO	3312135E241GBSR	4021125E530GBS	4935230T104T
1441310C112LO	2411115F241FB	2812632T104T	3312140F411FMS	4022174P435FC	4935240T104T
1471110C612LO	2411165F472FL	2818170C113LO	3312150E531GBS	4024115A302XP	4935254P435FC
1471411K304HKS	2411210M190MWM	2818668T107T	3312253F443FB	4024150B314XM	4935601P435FC
1471510C113LO	2411410F241FB	2818671C414LO	3312265E231GBS	4029154E500GTS	4935640T107T
1491110C113LO	2411411F241FB	2818990T105T	3312332E241GBSR	4029173S101FC	4936015P435FC
1491415C113LO	2411515K340HTS	2819155C113LO	3312420E735GBS	4111190P435FC	4936344P435FC
1491820P435FC	2411570E500GTS	2821139C214LO	3312445E530GBS	4211299A806XP	4936540P435FC
2012910R470RPL	2411580E500GTS	2821140C214LO	3312468E730GBS	4221125P435FC	4936556P435FC
2012911P435FC	2411701E500GTS	2821144C214LO	3312528F443FB	4221130P435FC	4941104T105T
2016110R470RPL	2411923E507GTS	2821156C214LO	3312627E735GBS	4611110P435FC	4950130P435FC
2023325R410RBL	2421170F483FBC	2821163C214LO	3312653E530GBS	4621110P435FC	4950150P435FC
2033110P435FC	2421184F483FBC	2841915P435FC	3321120F126FMS	4711110P435FC	4960133P435FC
2033615B314XM	2421190F483FBC	2841990P435FC	3333115B314XM	4875648C113LO	4966110C114LO
2034220P435FC	2421195F483FBC	2871235C113LO	3333140A636XL	4903520P435FC	4966325H340HM

SECTION 3 Data Exceptions

Overall, there were no major deviations in waybill data quality from specifications given by the Surface Transportation Board. The following tables detail all known data exceptions and sampling deviations in the 2022 Carload Waybill Sample. Efforts to correct these problems have already been made.

As of December 31, 2005, all electronic waybill submitters whom Railinc was providing pre-edit corrections have addressed their data quality. It is important to note that the high level of cooperation between the railroads and Railinc has resulted in the 2022 Waybill Sample being free of all but equipment registration related errors.

Railinc Waybill Correction Process

Due to the railroads ability to correct errors (or make program modifications), Railinc no longer makes these corrections for the submitting carriers. Other errors are individually validated, and all errors are thoroughly documented and returned to the carrier for correction and/or verification. The entire corrected file is then returned to Railinc for re-processing. If no errors are found the file is clean and the intermediate file can be created. If errors are still in the file, they are sent back to the carrier for correcting. Again, the carrier will send back the entire file.

Railroad-Wide Corrections

1. Valid, Umler-registered intermodal flat car initials and numbers are used to replace 'dummy' flat car initials and numbers on intermodal shipment waybills.
2. Specific rail-owned, Umler-registered trailers and containers unit initials and numbers are used to replace 'dummy' TOFC/COFC unit initials and numbers on intermodal shipment waybills.
3. TOFC Plan code 'X' is placed on any intermodal shipment waybill whose TOFC Plan code is a blank or zero.
4. Junction abbreviation spellings are adjusted to comply with Accounting Rule 260 abbreviations.
5. Freight Station Accounting Codes (FSAC) are validated for accuracy against Railinc Business Services Division master files and the Waybill Section's database.
6. Standard Transportation Commodity Codes (STCC) are identified and adjusted to comply with Industry Reference Files.
7. Waybills which list very high or low billed weights are individually verified (e.g., heavy load capacity cars, or intermodal shipments with weights below one ton); if the weight is valid for the waybill, the billed weight error flag is removed after the final edit procedure.
8. Waybills which list high freight revenues are verified individually (e.g., trans-continental movements of hazardous materials); if the revenue is valid for the waybill, the revenue error flag is removed after the final edit procedure.
9. Intermodal waybills which were processed after October 1, 2010, used the dummy car initial number 'AARX 999999'.

Contract Rate Flag

Since the implementation of the Staggers Act in 1980, partial rail deregulation has allowed railroads and shippers to enter into contracts. Revenue-related information regarding these contracts is considered highly sensitive and is often subject to confidentiality clauses within the contracts. As a result, it's apparent that, despite increases in the number of contracts (which in actuality reduced railroad revenues), data from the Waybill Sample indicated that the opposite had occurred. This was due to the reporting of 'normal' tariff rates instead of the lower contract rates in the Waybill Sample.

Recognizing this deficiency and the confidentiality concern put forth by a major Class I railroad, the ICC in 1986 instituted a pilot program whereby that road could report calculated or factored revenues in place of actual contract revenues. Although the railroad could report a tariff value in place of the contract rate, accurate estimation of the actual contract rate would still be required, as the relationship between the reported tariff rate and actual contract rate (at the three-digit STCC level) must be made available to the Surface Transportation Board for use in internal analysis.

These calculated revenues are constructed at the three-digit STCC level and are indicated using one of the following numeric values in the Contract Rate Flag field of the sampled waybill record:

- (0) = Not specifically a contract rate.
- (1) = The freight revenue is a calculated figure which has been derived either from existing tariffs or from appropriate values if no tariff is in place (at the 3-digit STCC level).

TTX Train Assignments

The TTX Company assigns Car Initials and Equipment Type Code by the Car Number and based upon need, frequently and repeatedly reassigns series of Car Numbers to different initials and equipment types. Due to the confusion that could be caused by this method, Railinc's Umler database maintains only the most recent car initial/number/type assignments for TTX equipment. While the initial car initial/number assignment usually referred to intermodal flatcars, subsequent assignment may be related to flatcars.

This impacted upon the Waybill Sample during Railinc's final edit procedures as the Umler file locates the flat car by comparing the car number with its assigned car initial and equipment type. The car initial and car type code currently assigned to the particular car number are written onto the edited waybill record, and error flag '14' is appended to the record if the equipment type code is no longer 'P', 'Q' or 'S'. However, at the time of the waybill movement, the car number was most likely assigned to a different car initial, and equipment type code 'P', 'Q' or 'S'.

To prevent this situation from resulting in a large number of waybill errors (Error Code 14 - INTERMODAL MOVEMENT NOT ON A FLATCAR), the standard dummy intermodal flatcar initial/number combination AARX 999999 (effective October 1, 2010) was inserted in instances of traditional TOFC/COFC movements.

SECTION 4 2022 Waybill Record Layouts and Waybill References

The following documentation is included in this section:

- I. 2022 SURFACE TRANSPORTATION BOARD CARLOAD WAYBILL SAMPLE
 - A. 913-byte STB Waybill File Record Layout
 - B. 913-byte STB Waybill Data Element Descriptions
- II. DEPARTMENT OF COMMERCE
 - A. Business Economic Area (BEA) Codes (Revised 2006)
 - B. Business Economic Area (BEA) Codes by County Listing
- III. 2022 SURFACE TRANSPORTATION BOARD PUBLIC USE WAYBILL
 - A. 247-byte Record Layout
 - B. 247-byte Data Element Descriptions
- IV. WAYBILL REFERENCES
 - A. STCC[®] Headers
 - B. Surface Transportation Board Car Type Code
 - C. Umler[®] Field Descriptions
 - D. AAR Equipment Type Code (Umler[®])
 - E. US Census Regions
 - F. CS54 Group Codes

913-Byte STB Waybill File Record Layout

Table 4-1. 913-Byte STB Waybill File Record Layout

Field	Data Description	Number of Positions	Form	Columns
1	Unique Serial Number	6	A/N	1–6
2	Waybill Number	6	N	7–12
3	Waybill Date (mmddccyy)	8	N	13–20
4	Accounting Period (mmccyy)	6	N	21–26
5	Number of Carloads	4	N	27–30
6	Car Initial	4	A	31–34
7	Car Number	6	N	35–40
8	Intermodal TOFC/COFC Service Code	3	A/N	41–43
9	Number of TOFC/COFCs	4	N	44–47
10	TOFC/COFC Initial	4	A	48–51
11	TOFC/COFC Number	6	N	52–57
12	Commodity Code (STCC)	7	N	58–64
13	Billed Weight	9	N	65–73
14	Actual Weight	9	N	74–82
15	Freight Revenue	9	N	83–91
16	Transit Charges	9	N	92–100
17	Miscellaneous Charges	9	N	101–109
18	Inter/Intra State Code	1	N	110
19	Transit Code	1	N	111
20	All Rail/Intermodal Code	1	N	112
21	Type Move (import/export)	1	N	113
22	Type Move Via Water	1	N	114
23	Substituted Truck for Rail	1	N	115
24	Shortline Miles	4	N	116–119
25	Rebill Code	1	N	120
26	Stratum Identification	1	N	121
27	Subsample Code	1	N	122
28	Intermodal Equipment Flag	1	N	123
29	Calculated Rate Flag	1	N	124
30	Waybill Identifier (MRI only)	25	A/N	125–149
31	Reporting Railroad	3	N	150–152
32	Origin FSAC	5	N	153–157
33	Origin Railroad	3	N	158–160
34	Interchange #1 Rule 260	5	A	161–165
35	First Bridge RR	3	N	166–168
36	Interchange #2 Rule 260	5	A	169–173
37	Second Bridge RR	3	N	174–176
38	Interchange #3 Rule 260	5	A	177–181
39	Third Bridge RR	3	N	182–184
40	Interchange #4 Rule 260	5	A	185–189
41	Fourth Bridge RR	3	N	190–192
42	Interchange #5 Rule 260	5	A	193–197
43	Fifth Bridge RR	3	N	198–200
44	Interchange #6 Rule 260	5	A	201–205

Field	Data Description	Number of Positions	Form	Columns
45	Sixth Bridge RR	3	N	206–208
46	Interchange #7 Rule 260	5	A	209–213
51	Termination Railroad	3	N	214–216
52	Termination FSAC	5	N	217–221
53	Population Count	8	N	222–229
54	Stratum Count	6	N	230–235
55	Reporting Period Length	1	N	236
56	Car Owner's Mark	4	A	237–240
57	Car Lessee's Mark	4	A	241–244
58	Car Capacity	5	N	245–249
59	Nominal Car Capacity - Expired	3	N	250–252
60	Tare Weight of Car	4	N	253–256
61	Outside Length	5	N	257–261
62	Outside Width	4	N	262–265
63	Outside Height	4	N	266–269
64	Extreme Outside Height	4	N	270–273
65	Type of Wheel Bearings and Brakes	1	A	274
66	Number of Axles	1	A/N	275
67	Draft Gear	2	N	276–277
68	Number of Articulated Units	1	N	278
69	Pool Code Number	7	N	279–285
70	AAR Equipment Type Code	4	A/N	286–289
71	Mechanical Designation Code	4	A	290–293
72	Licensing State (TOFC)	2	A	294–295
73	Maximum Weight on Rail	3	N	296–298
74	Origin SPLC	6	N	299–304
75	Destination SPLC	6	N	305–310
76	STCC w/o Hazardous (49) Codes	7	N	311–317
77	Origin Railroad Alpha	4	A	318–321
78	First Interchange RR Alpha	4	A	322–325
79	Second Interchange RR Alpha	4	A	326–329
80	Third Interchange RR Alpha	4	A	330–333
81	Fourth Interchange RR Alpha	4	A	334–337
82	Fifth Interchange RR Alpha	4	A	338–341
83	Sixth Interchange RR Alpha	4	A	342–345
86	Termination Railroad Alpha	4	A	346–349
87	Junction Frequency	1	N	350
88	Theoretical Expansion Factor	3	N	351–353
89	Routing Error Flag	1	A	354
90	STB Car Type	2	N	355–356
92	AAR/RAILINC Error Codes	6	N	357–362
93	Car Ownership Category	1	A	363
94	AAR Trailer/Container Equipment Type Code	4	A/N	364–367
95	Deregulation Date (ccyymmdd)	8	N	368–375
96	Deregulation Flag	1	A	376
97	Service Type	1	N	377
98	Expanded Carloads	6	N	378–383

Field	Data Description	Number of Positions	Form	Columns
99	Billed Weight in Tons	7	N	384–390
100	Expanded Tons	8	N	391–398
101	Expanded Trailer/Container Count	6	N	399–404
102	Expanded Total Revenue	10	N	405–414
103	Origin Railroad Split Revenue	10	N	415–424
104	First Interchange RR Split Revenue	10	N	425–434
105	Second Interchange RR Split Revenue	10	N	435–444
106	Third Interchange RR Split Revenue	10	N	445–454
107	Fourth Interchange RR Split Revenue	10	N	455–464
108	Fifth Interchange RR Split Revenue	10	N	465–474
109	Sixth Interchange RR Split Revenue	10	N	475–484
112	Termination Railroad Split Revenue	10	N	485–494
113	First Railroad Distance	5	N	495–499
114	Second Railroad Distance	5	N	500–504
115	Third Railroad Distance	5	N	505–509
116	Fourth Railroad Distance	5	N	510–514
117	Fifth Railroad Distance	5	N	515–519
118	Sixth Railroad Distance	5	N	520–524
119	Seventh Railroad Distance	5	N	525–529
122	Termination Railroad Distance	5	N	530–534
123	Total Distance	5	N	535–539
124	Origin State Alpha	2	A	540–541
125	First Junction State Alpha	2	A	542–543
126	Second Junction State Alpha	2	A	544–545
127	Third Junction State Alpha	2	A	546–547
128	Fourth Junction State Alpha	2	A	548–549
129	Fifth Junction State Alpha	2	A	550–551
130	Sixth Junction State Alpha	2	A	552–553
131	Seventh Junction State Alpha	2	A	554–555
134	Termination State Alpha	2	A	556–557
135	Origin BEA Area	3	N	558–560
136	Termination BEA Area	3	N	561–563
137	Origin FIPS Code	5	N	564–568
138	Termination FIPS Code	5	N	569–573
139	Origin Freight Area	2	N	574–575
140	Termination Freight Area	2	N	576–577
141	Origin Freight Territory	1	N	578
142	Termination Freight Territory	1	N	579
143	Origin SMSA	4	N	580–583
144	Termination SMSA	4	N	584–587
145	Origin NET3 Number	5	N	588–592
146	First Junction NET3 Number	5	N	593–597
147	Second Junction NET3 Number	5	N	598–602
148	Third Junction NET3 Number	5	N	603–607
149	Fourth Junction NET3 Number	5	N	608–612
150	Fifth Junction NET3 Number	5	N	613–617
151	Sixth Junction NET3 Number	5	N	618–622

Field	Data Description	Number of Positions	Form	Columns
152	Seventh Junction NET3 Number	5	N	623–627
155	Termination NET3 Number	5	N	628–632
156	State Through Indicators (1 = State Used in Waybill Routing)	52	N	633–684
	Alabama	1	N	633
	Arizona	1	N	634
	Arkansas	1	N	635
	California	1	N	636
	Colorado	1	N	637
	Connecticut	1	N	638
	Delaware	1	N	639
	District of Columbia	1	N	640
	Florida	1	N	641
	Georgia	1	N	642
	Idaho	1	N	643
	Illinois	1	N	644
	Indiana	1	N	645
	Iowa	1	N	646
	Kansas	1	N	647
	Kentucky	1	N	648
	Louisiana	1	N	649
	Maine	1	N	650
	Maryland	1	N	651
	Massachusetts	1	N	652
	Michigan	1	N	653
	Minnesota	1	N	654
	Mississippi	1	N	655
	Missouri	1	N	656
	Montana	1	N	657
	Nebraska	1	N	658
	Nevada	1	N	659
	New Hampshire	1	N	660
	New Jersey	1	N	661
	New Mexico	1	N	662
	New York	1	N	663
	North Carolina	1	N	664
	North Dakota	1	N	665
	Ohio	1	N	666
	Oklahoma	1	N	667
	Oregon	1	N	668
	Pennsylvania	1	N	669
	Rhode Island	1	N	670
	South Carolina	1	N	671

Field	Data Description	Number of Positions	Form	Columns
	South Dakota	1	N	672
	Tennessee	1	N	673
	Texas	1	N	674
	Utah	1	N	675
	Vermont	1	N	676
	Virginia	1	N	677
	Washington	1	N	678
	West Virginia	1	N	679
	Wisconsin	1	N	680
	Wyoming	1	N	681
	Canada	1	N	682
	Mexico	1	N	683
	All Other	1	N	684
157	International Harmonized Code	12	A	685-696
158	Standard Industrial Classification	4	A	697-700
159	International S. I. C.	4	A	701-704
160	Dominion of Canada Code	3	A	705-707
161	CS54 Group Code	2	A	708-709
162	Origin Freight Station Type	4	A	710-713
163	Destination Freight Station Type	4	A	714-717
164	Origin Freight Station Rating ZIP	9	N	718-726
165	Dest. Freight Station Rating ZIP	9	N	727-735
166	Origin Rate Base SPLC	9	A	736-744
167	Destination Rate Base SPLC	9	A	745-753
168	Origin Switch Limit SPLC	9	A	754-762
169	Destination Switch Limit SPLC	9	A	763-771
170	Origin Customs Flag	1	A	772
171	Destination Customs Flag	1	A	773
172	Origin Grain Flag	1	A	774
173	Destination Grain Flag	1	A	775
174	Origin Automobile Ramp Facility Code	1	A	776
175	Dest. Automobile Ramp Facility Code	1	A	777
176	Origin Intermodal Flag	1	A	778
177	Destination Intermodal Flag	1	A	779
193	Transborder Flag	1	N	780
194	Origin Railroad Country Code	2	A	781-782
195	First Interchange Railroad Country Code	2	A	783-784
196	Second Interchange Railroad Country Code	2	A	785-786
197	Third Interchange Railroad Country Code	2	A	787-788
198	Fourth Interchange Railroad Country Code	2	A	789-790
199	Fifth Interchange Railroad Country Code	2	A	791-792
200	Sixth Interchange Railroad Country Code	2	A	793-794
201	Termination Railroad Country Code	2	A	795-796
202	Fuel Surcharge	9	N	797-805
179	Blank (Space reserved for future changes)	13	A/N	806-818

Field	Data Description	Number of Positions	Form	Columns
180	Origin Census Region	4	A	819–822
181	Termination Census Region	4	A	823–826
182	Exact Expansion Factor	7	N	827–833
183	Total Variable Cost	8	N	834–841
185	Railroad 1 Variable Cost	8	N	842–849
186	Railroad 2 Variable Cost	8	N	850–857
187	Railroad 3 Variable Cost	8	N	858–865
188	Railroad 4 Variable Cost	7	N	866–872
189	Railroad 5 Variable Cost	7	N	873–879
190	Railroad 6 Variable Cost	7	N	880–886
191	Railroad 7 Variable Cost	7	N	887–893
192	Railroad 8 Variable Cost	7	N	894–900
203	Unique Tracking Number	13	N	901-913

913-Byte STB Waybill Data Element Descriptions

For fields 1 through 179 the following list describes the proper coding and interpretation of the Carload Waybill Statistics at the conclusion of processing by the AAR/Railinc for the Sample. Fields 180 through 192 are added to each record by the STB.

Table 4-2. 913-Byte Waybill File Record Data Element Descriptions

Field	Description
1	<p>Unique Serial Number (6-digit alphanumeric, zero fill)</p> <p>To allow for unique identification of waybills, the AAR/Railinc assigns a six-digit value to all waybills processed. Hardcopy (FTP) waybills are assigned serial numbers in the 100,000 to 199,999 range. MRI waybills are assigned serial numbers in the 200,000 to 999,999 range. Once those values are exhausted, MRI waybills are assigned alphanumeric serial numbers where the first digit is a letter and the remaining digits are numbers, zero filled (e.g., “A00001” to “Z99999”). Once those values are exhausted, the first two digits are letters and the remaining digits are numbers, zero filled (e.g., “AA0001” to “AA9999”, “AB0001” to “AB9999”, etc.)⁵</p>
2	<p>Waybill Number (6-digit numeric)</p> <p>The waybill number is the number an originating railroad assigns to each waybill document¹.</p>
3	<p>Waybill Date (Month, Day, Year) (6-digit numeric)</p> <p>The waybill date is the date on which the originating railroad prepares the waybill (mmdccyy) where, mm = month, dd = day, cc = century, yy = year¹.</p>

Field	Description
4	<p>Accounting Period (Month, Year) (4-digit numeric)</p> <p>The accounting period is the month and year during which the study waybill is entered into the railroad's revenue accounting system. This information is subsequently reflected in the net income statement of the company for the specified account month (mmccyy) where, mm = month, cc = century, yy = year¹.</p>
5	<p>Number of Carloads (4-digit numeric)</p> <p>The total number of carloads on the sampled waybill¹.</p>
6	<p>Car Initials (4-character alpha)</p> <p>The car initials are the identification of car ownership as recorded in The Official Railway Equipment Register, issued by the Association of American Railroads. If the waybill covers a multiple car movement, the initials of the first car are entered¹.</p>
7	<p>Car Number (6-digit numeric)</p> <p>The car number is assigned by the owner and, when combined with the owner's car initial code, uniquely identifies the freight car used in the move. If the waybill covers a multiple car movement, the number of the first car is entered¹.</p>
8	<p>TOFC/COFC Service Code (3-digit alphanumeric, space fill)</p> <p>The code for the Intermodal Service Code (ISC) must be entered in the first position of the field. If possible, when different ISCs are used during the sampled waybill movement, enter the code for the applicable ISC at origination in the first position of the field, and the code for the applicable ISC at termination in the second position of the field. For example, 'B C' indicates that the TOFC movement started on ISC 20 and terminated on ISC 22.</p> <p>Note: Three blanks in this field indicates the movement is not intermodal in nature. 'Unknown' ISCs are indicated by 'X'¹.</p>

Table 4-3. Revised Intermodal Service Plan Code Reporting

Intermodal Service Code	Unit Owner	Service Provided by Carrier	Determination of Charges	STB Alternate Coding
15	Motor/Rail	R-R, Ramp to Ramp	Agreed between Trucker & Rail	A
20	Rail	T-R-T, Door to Door	Truck Competitive Rates	B
22	Rail	T-R, Door to Destination Ramp	Truck Competitive Rates	C
25	Rail	R-R, Ramp to Ramp	Special Mode of Code 20 Rates	D
27	Rail	R-T, Origin Ramp to Door	Truck Competitive Rates	E

Intermodal Service Code	Unit Owner	Service Provided by Carrier	Determination of Charges	STB Alternate Coding
40	Steamship/ Stack Operator	T-R-T, Door to Door	Domestic Container Movements Without Prior or Subsequent Waterborne Movement. Applies to U.S./Canada/Mexican Traffic. Equipment Supplied by Stack Operator or Steamship Line.	F
42	Steamship/ Stack Operator	T-R, Door to Destination Ramp	Domestic Container Movements Without Prior or Subsequent Waterborne Movement. Applies to U.S./Canada/Mexican Traffic. Equipment Supplied by Stack Operator or Steamship Line.	G
45	Steamship /Stack Operator	R-R, Ramp to Ramp	Domestic Container Movements Without Prior or Subsequent Waterborne Movement. Applies to U.S./Canada/Mexican Traffic. Equipment Supplied by Stack Operator or Steamship Line.	H
47	Steamship/ Stack Operator	R-T, Origin Ramp to Door	Domestic Container Movements Without Prior or Subsequent Waterborne Movement. Applies to U.S./Canada/Mexican Traffic. Equipment Supplied by Stack Operator or Steamship Line.	I
60	Patron	T-R-T, Door to Door	Patron Supplied Equipment	K
62	Patron	T-R, Door to Destination Ramp	Patron Supplied Equipment	L
65	Patron	R-R, Ramp to Ramp	Patron Supplied Equipment	M
67	Patron	R-T, Origin Ramp to Door	Patron Supplied Equipment	N
80	Steamship/ Stack Operator	T-R-T, Door to Door	International Shipments With Prior or Subsequent Waterborne Movement. Includes Alaska, Hawaii, Puerto Rico. Equipment Supplied by Stack Operator or Steamship Line.	O
82	Steamship/ Stack Operator	T-R, Door to Destination Ramp	International Shipments With Prior or Subsequent Waterborne Movement. Includes Alaska, Hawaii, Puerto Rico. Equipment Supplied by Stack Operator or Steamship Line.	P
85	Steamship/ Stack Operator	R-R, Ramp to Ramp	International Shipments With Prior or Subsequent Waterborne Movement. Includes Alaska, Hawaii, Puerto Rico. Equipment Supplied by Stack Operator or Steamship Line.	Q
87	Steamship/ Stack Operator	R-T, Origin Ramp to Door	International Shipments With Prior or Subsequent Waterborne Movement. Includes Alaska, Hawaii, Puerto Rico. Equipment Supplied by Stack Operator or Steamship Line.	R
Unknown	Unknown	Unknown	Unknown	X

Field	Description
-------	-------------

9 **Number of TOFC/COFCs** (4-digit numeric)
The total number of TOFC/COFC units on the sample waybill¹.

10 **Trailer or Container Initials** (4-character alpha)
The ownership of the trailer/container on flat car must be identified as recorded in the AAR/Railinc MARK file. If the waybill covers a multiple TOFC/COFC unit movement, the initials of the first trailer/container are entered¹.

11 **Trailer or Container Number** (6-digit numeric)
The trailer/container number is assigned by the owner and, when combined with the owner's trailer/container initials, uniquely identifies the trailer/container used in the move. If the waybill covers a multiple TOFC/COFC unit movement, the number of the first trailer/container is entered¹.

Field	Description
12	<p>Commodity Code (STCC-HAZMAT) (7-digit numeric)</p> <p>The Standard Transportation Commodity Code (STCC) identifies the product designation for the commodity being transported. For hazardous materials only, the 49 series HAZMAT Code is used in lieu of the regular STCC. STCC 48 (hazardous waste) is part of the regular STCC code. The 50 series STCC is used for bulk commodities transported in box cars¹.</p>
13	<p>Billed Weight (CWT) (9-digit numeric)</p> <p>The total billed weight (in hundredweight) is the weight of the commodity being transported¹.</p>
14	<p>Actual Weight of Lading (CWT) (9-digit numeric)</p> <p>The total actual weight of lading (in hundredweight), if provided, is recorded for the commodity being transported¹.</p>
15	<p>Freight Revenue (\$) (9-digit numeric)</p> <p>The total freight line-haul revenue, from origin to destination, is shown in dollars¹.</p>
16	<p>Transit Charges (\$) (9-digit numeric)</p> <p>Transit charges, where applicable, shown in dollars¹.</p>
17	<p>Miscellaneous Charges (\$) (9-digit numeric)</p> <p>The total of all miscellaneous charges, excluding transit and freight revenue charges, shown in dollars¹.</p>
18	<p>Interstate/Intrastate Code (inferred) (1-digit numeric)</p> <p>Normally, an Intrastate routing is inferred if the origin and destination states are the same. However, an Interstate routing is inferred for routings where the origin and destination stations are within a state but the customary routing exits and re-enters the state. Interstate movements should also include import, export, ex-lake and lake cargo movements.</p> <p>(1) Interstate (2) Intrastate (9) Unknown¹</p>

Field	Description
19	<p>Transit Code (1-digit numeric)</p> <ul style="list-style-type: none"> (0) Not a transit movement (1) Transit - indicates that the shipment is the outbound movement from a transit point, where some service has been performed, to the destination point (which can be another transit point). (9) Unknown¹
20	<p>All Rail/Intermodal Code (1-digit numeric)</p> <ul style="list-style-type: none"> (1) All Rail (2) Intermodal - a continuous movement involving at least one railroad and another mode. (9) Unknown¹
21	<p>Type of Move (inferred) (1-digit numeric)</p> <ul style="list-style-type: none"> (0) Neither import nor export (1) Imported commodity (2) Exported commodity (3) Commodity imported and exported, e.g., land bridge traffic (9) Unknown¹
22	<p>Type of Move Via Water (inferred) (1-digit numeric)</p> <ul style="list-style-type: none"> (0) Not a water movement (1) Ex-Lake (from Great Lakes to reporting railroad) (2) Lake Cargo (Rail to Great Lakes) (3) Intercoastal - a continuous movement by U.S. rail which is part of an Atlantic Ocean (or Gulf) and Pacific Ocean movement, in either direction. (4) Coastwise - a continuous movement involving rail at either end of a coastwise movement between ports on the East Coast (including Gulf) or between ports on the West Coast. (5) Inland Waterways - a rail movement in combination with a barge movement on rivers and canals (other than the Great Lakes) that is not considered a part of the rail movement, e.g., rail car ferry. (9) Unknown¹
23	<p>Substituted Truck-for-Rail Service (1-digit numeric)</p> <ul style="list-style-type: none"> (0) Not substituted truck-for-rail service (1) Study movement involves substituted truck-for-rail service (for example, a rail carrier may be authorized by the STB to institute truck for rail service when rail service is abandoned, or a track is closed for various reasons). (9) Unknown¹

Field	Description																														
24	<p>Shortline Miles (4-digit numeric)</p> <p>Shortline miles comprise the shortest rail route over which carload traffic can be moved without transfer of lading. For a complete explanation, see Docket No. 28300⁶.</p>																														
25	<p>Rebill Code (1-digit numeric)</p> <p>The Rebill Code indicates whether an interline shipment is billed as a Rule 11 shipment or not. A zero value indicates the shipment was either a local shipment or billed as a through-rate shipment. A non-zero value indicates the shipment was billed as a Rule 11 shipment.</p> <p>For Rule 11 shipments, the routing reported (i.e., the railroads, origination location, interchanges, and termination location) should only include information covered by the billed revenues. Typically, a rebilled shipment only lists the reporting railroad in the route and the origination and termination locations are the on-point and off-point of the reporting railroad. The Rebill Code indicates where in the overall movement of the shipment the reporting railroad participated (e.g., forwarded, bridged, or received). A rebilled shipment may contain multiple railroads listed in the route for multi-party Rule 11 shipments. In those cases, the routing should only include the railroads and locations whose revenue divisions are included in the reported revenue of the waybill.</p> <p>(0) Local shipment or normal through-rate (i.e., not a Rule 11 shipment) (1) Originated – Delivered Rule 11 shipment (2) Received – Delivered Rule 11 shipment (3) Received – Terminated Rule 11 shipment</p>																														
26	<p>Stratum Identification (1-digit numeric)</p> <table border="0"> <thead> <tr> <th>Stratum</th> <th>Carloads per Waybill</th> <th>Sample Rate</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>1 to 2</td> <td>1/5</td> </tr> <tr> <td>(2)</td> <td>3 to 15</td> <td>1/5</td> </tr> <tr> <td>(3)</td> <td>16 to 60</td> <td>1/4</td> </tr> <tr> <td>(4)</td> <td>61 to 100</td> <td>1/3</td> </tr> <tr> <td>(5)</td> <td>101 and over</td> <td>1/2</td> </tr> </tbody> </table> <table border="0"> <thead> <tr> <th></th> <th>Intermodal trailer/container units (TCUs) per waybill</th> <th>Sample Rate</th> </tr> </thead> <tbody> <tr> <td>(6)</td> <td>1 to 2</td> <td>1/40</td> </tr> <tr> <td>(7)</td> <td>3 and over</td> <td>1/5</td> </tr> <tr> <td>(9)</td> <td colspan="2">Optional study: 100% selection of all waybills^{1 or 6}</td> </tr> </tbody> </table>	Stratum	Carloads per Waybill	Sample Rate	(1)	1 to 2	1/5	(2)	3 to 15	1/5	(3)	16 to 60	1/4	(4)	61 to 100	1/3	(5)	101 and over	1/2		Intermodal trailer/container units (TCUs) per waybill	Sample Rate	(6)	1 to 2	1/40	(7)	3 and over	1/5	(9)	Optional study: 100% selection of all waybills ^{1 or 6}	
Stratum	Carloads per Waybill	Sample Rate																													
(1)	1 to 2	1/5																													
(2)	3 to 15	1/5																													
(3)	16 to 60	1/4																													
(4)	61 to 100	1/3																													
(5)	101 and over	1/2																													
	Intermodal trailer/container units (TCUs) per waybill	Sample Rate																													
(6)	1 to 2	1/40																													
(7)	3 and over	1/5																													
(9)	Optional study: 100% selection of all waybills ^{1 or 6}																														

Field	Description
27	<p>Subsample Code Number (1-digit numeric)</p> <p>Enter the subsample code number which identifies the waybill as being selected in subsample 1, 2, 3, or 4. Enter code 9 for optional study where there is 100% selection of all waybills⁵.</p>
28	<p>Intermodal Equipment Flag (1-digit numeric)</p> <p>(0) Neither a TOFC/COFC movement nor a “Road Railer” movement (i.e., not an intermodal movement).</p> <p>(1) “Might be TOFC/COFC” movement, where the following three criteria have been met:</p> <ul style="list-style-type: none"> a. The AAR Equipment Type Code is either ‘P’, ‘Q’ or ‘S’. b. The billed weight falls between either of these two weight ranges: 17-23 tons per car, or 34-46 tons per car. c. All traditional TOFC/COFC fields are absent (i.e., the TOFC/COFC plan is ‘ ’, the number of TOFC/COFC units is zero, the TOFC/COFC unit initial is blank, and the TOFC/COFC unit number is zero or blank). <p>(2) “Road Railer” movement, the car is a special Bi-modal Highway/rail vehicle, commonly referred to as a ‘Road Railer’ van. Movement may be reported as either TOFC/COFC or as not a TOFC/COFC.</p> <p>(3) TOFC/COFC movement (not a “Road Railer” movement)¹.</p>
29	<p>Calculated Rate Flag (1-digit numeric)</p> <p>(0) Not a calculated rate.</p> <p>(1) The freight revenue figure is a calculated number (which has been derived from existing tariffs at the three-digit STCC level) employed to protect confidential contract rate information¹.</p> <p>Note: This field is only used by the STB for internal analysis and does not appear on the completed Master tape retained by the contractor (AAR/Railinc).</p>
30	<p>Waybill Identifier for Retrieval (25-character alpha-numeric)</p> <p>The waybill identifier field is a set of codes or numbers to be filled in by reporting railroad which will aid the reporting railroad in identifying and retrieving a copy of study waybill for error check or for STB special study as required¹.</p>
31	<p>Reporting Railroad Rule 260 Accounting Code (3-digit numeric)</p> <p>The reporting railroad’s R260 Accounting Code must be identified. The reporting railroad’s code might differ from the terminating railroad’s code as shown in element 33 since the reporting railroad might be reporting for its subsidiary or for other railroads under interline settlement agreements¹.</p>

913-Byte File Record Data Element Descriptions (Routing fields 32–52)

The routing is reported by using alphabetic codes for interchanges (junctions) and numerical codes for railroads from the Freight Mandatory Rule 260, as published by the Association of American Railroads. The origin FSAC (Freight Station Accounting Code) must be the code for the originating railroad's actual origin station (not billing station); the termination FSAC must be the terminating railroad's code for the actual termination station (not billing station). A single-line movement requires the entry of the one railroad's code for the origin FSAC and the destination FSAC. A two-carrier move requires the origin railroad code (field 33) for the origin FSAC (field 32), the alpha code for the interchange in field 34, and the terminating railroad code for the termination FSAC (field 52).

Field	Description
32	<p>Origin FSAC (5-digit numeric)</p> <p>The Freight Station Accounting Code (FSAC) numeric designation of the origin station¹.</p>
33	<p>Origin Railroad (3-digit numeric)</p> <p>The Accounting Rule 260 numeric code for the origin railroad¹.</p>
34	<p>Interchange #1 Rule 260 (5-character alpha)</p> <p>The Accounting Rule 260 alpha code for the first interchange station. Traffic was either transferred to the terminating carrier or the first bridge railroad¹.</p>
35	<p>First Bridge Railroad (3-digit numeric)</p> <p>The Accounting Rule 260 numeric code for the first bridge railroad.</p> <p>Note: By definition, a bridge railroad cannot have originated or terminated the traffic movement¹.</p>
36	<p>Interchange #2 Rule 260 (5-character alpha)</p> <p>The Accounting Rule 260 alpha code for the second interchange station. Traffic was either transferred to the terminating carrier or the second bridge railroad¹.</p>
37	<p>Second Bridge Railroad (3-digit numeric)</p> <p>The Accounting Rule 260 numeric code for the second bridge railroad. Note: By definition, a bridge railroad cannot have originated or terminated the traffic movement¹.</p>
38	<p>Interchange #3 Rule 260 (5-character alpha)</p> <p>The Accounting Rule 260 alpha code for the third interchange station. Traffic was either transferred to the terminating carrier or the third bridge railroad¹.</p>

Field	Description
39	<p>Third Bridge Railroad (3-digit numeric)</p> <p>The Accounting Rule 260 numeric code for the third bridge railroad. Note: By definition, a bridge railroad cannot have originated or terminated the traffic movement¹.</p>
40	<p>Interchange #4 Rule 260 (5-character alpha)</p> <p>The Accounting Rule 260 alpha code for the fourth interchange station. Traffic was either transferred to the terminating carrier or the fourth bridge railroad¹.</p>
41	<p>Fourth Bridge Railroad (3-digit numeric)</p> <p>The Accounting Rule 260 numeric code for the fourth bridge railroad. Note: By definition, a bridge railroad cannot have originated or terminated the traffic movement¹.</p>
42	<p>Interchange #5 Rule 260 (5-character alpha)</p> <p>The Accounting Rule 260 alpha code for the fifth interchange station. Traffic was either transferred to the terminating carrier or the fifth bridge railroad¹.</p>
43	<p>Fifth Bridge Railroad (3-digit numeric)</p> <p>The Accounting Rule 260 numeric code for the fifth bridge railroad. Note: By definition, a bridge railroad cannot have originated or terminated the traffic movement¹.</p>
44	<p>Interchange #6 Rule 260 (5-character alpha)</p> <p>The Accounting Rule 260 alpha code for the sixth interchange station. Traffic was either transferred to the terminating carrier or the sixth bridge railroad¹.</p>
45	<p>Sixth Bridge Railroad (3-digit numeric)</p> <p>The Accounting Rule 260 numeric code for the sixth bridge railroad. Note: By definition, a bridge railroad cannot have originated or terminated the traffic movement¹.</p>
46	<p>Interchange #7 Rule 260 (5-character alpha)</p> <p>The Accounting Rule 260 alpha code for the seventh interchange station. Traffic was either transferred to the terminating carrier or the seventh bridge railroad¹.</p>

Field	Description
47	<p>Seventh Bridge Railroad (3-digit numeric)</p> <p>The Accounting Rule 260 numeric code for the seventh bridge railroad. Note: By definition, a bridge railroad cannot have originated or terminated the traffic movement¹.</p>
48	<p>Interchange #8 Rule 260 (5-character alpha)</p> <p>The Accounting Rule 260 alpha code for the eighth interchange station. Traffic was either transferred to the terminating carrier or the eighth bridge railroad¹.</p>
49	<p>Eighth Bridge Railroad (3-digit numeric)</p> <p>The Accounting Rule 260 numeric code for the eighth bridge railroad. Note: By definition, a bridge railroad cannot have originated or terminated the traffic movement¹.</p>
50	<p>Interchange #9 Rule 260 (5-character alpha)</p> <p>The Accounting Rule 260 alpha code for the ninth interchange station. Traffic was then transferred to the terminating carrier¹.</p>
51	<p>Termination Railroad (3-digit numeric)</p> <p>The Accounting Rule 260 numeric code for the termination railroad¹.</p>
52	<p>Termination FSAC (5-digit numeric)</p> <p>The Freight Station Accounting Code numeric designation of the termination station¹.</p>
53	<p>Population Count (8-digit numeric)</p> <p>The size of a stratum's population, from which the sample was selected^{1 or 6}.</p>
54	<p>Stratum Count (6-digit numeric)</p> <p>The number of waybills (regardless of waybill year) that were chosen from a stratum's population^{1 or 6}.</p>
55	<p>55. Reporting Period Length (1-digit numeric)</p> <p>(1) Monthly</p> <p>(2) Quarterly⁵</p>

Field	Description
56	Car Owner's Mark (4-character alpha) The Umler Uniform Alphabetic Code for railroad owning car or assigned reporting mark of private car company owning car as recorded in the AAR/Railinc MARK file.
57	Car Lessee's Mark (4-character alpha) The Umler Uniform Alphabetic Code for railroad leasing car or assigned reporting mark of private car company owning car as recorded in the AAR/Railinc MARK file.
58	Car Capacity (5-digit numeric) Cubic foot capacity of car (for all equipment types except flat) ² .
59	Nominal Capacity (3-digit numeric) Expired
60	Tare Weight of Car (4-digit numeric) The actual light weight (not an average), in hundredweight, for each car ² .
61	Outside Length (5-digit numeric) Distance between pulling faces of the couplers in normal position. The first three-digits represent feet. The last 2 digits represent inches, rounded up to the next inch in the case of a fraction. Example: 5 1/4" = 6" ² .
62	Outside Width (4-digit numeric) Measurement of outside width of car, including attachments projecting to greatest extent. The first two digits represent feet. The last two digits represent inches, rounded up to next inch in the case of a fraction ² .
63	Outside Height (4-digit numeric) Measurement from top of rail to top of eaves at side of car. The first two digits represent feet. The last two digits represent inches, rounded up to the next inch in the case of a fraction ² .
64	Extreme Outside Height (4-digit numeric) Measurement from top of rail to location where extreme height occurs. The first two digits represent feet. The last two digits represent inches, rounded up to the next inch in the case of a fraction ² .

Field	Description
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- 65** **Type of Wheel Bearings and Brakes** (1-character alpha)
- (A) Plain bearings and composition brake shoes
 - (B) Roller bearings and composition brake shoes
 - (C) Plain bearings and cast iron brake shoes
 - (D) Roller bearings and cast iron brake shoes
 - (E) Roller bearings, composition brake shoes and constant contact side bearings
 - (F) Roller bearings, cast iron brake shoes and constant contact side bearings
 - (G) Roller bearings, composition brake shoes, and empty/load brake system
 - (H) Roller bearings, composition brake shoes, constant contact side bearings, and empty/load brake system
 - (I) Roller bearings, cast iron shoes and empty/load brake system
 - (J) Roller bearings, cast iron shoes, constant contact side bearings, and empty/load brake system
 - (K) Roller bearings, composition brake shoes and designed for high-speed train operations
 - (L) Roller bearings, composition brake shoes, empty/load brake system and designed for high-speed train operations²

66 **Number of Axles** (1-character alphanumeric):

Code	Axles	Code	Axles	Code	Axles
(2)	2	(F)	16	(Q)	27
(4)	4	(G)	17	(R)	28
(6)	6	(H)	18	(S)	29
(8)	8	(I)	19	(T)	30
(9)	9	(J)	20	(U)	31
(0)	10	(K)	21	(V)	32
(A)	11	(L)	22	(W)	33
(B)	12	(M)	23	(X)	34
(C)	13	(N)	24	(Y)	35
(D)	14	(O)	25	(Z)	36 or more ²
(E)	15	(P)	26		

67 **Draft Gear** (2-digit numeric)

This element identifies draft gear and coupler types.

68 **Number of Articulated Units** (1-digit numeric)

An articulated car consists of two or more cars permanently coupled together in such a manner that they cannot be separated for operations in interchange service as individual cars. Such cars will be operated under one reporting mark and one reporting number. The reported code indicates the number of units permanently attached. The minimum is 2, while 9 indicates nine or more units².

Note: '0' indicates that the car is not articulated.

Field	Description
69	<p>Pool Code Number (7-digit numeric)</p> <p>Numeric code indicating name and location of a specific shipper or assignment type in accordance with the provisions of Car Service Rule 16C for equipment types covered by Circulars CSD 145, CSD 435².</p>
70	<p>AAR Equipment Type Code (4-character alphanumeric)</p> <p>Alphanumeric code giving a general physical description of the type of car².</p>
71	<p>Mechanical Designation (4-character alpha)</p> <p>Mechanical designation is dependent on AAR equipment type².</p>
72	<p>Licensing State (TOFC) (2-character alpha)</p> <p>An alphabetic code representing the Standard Alphabetic Abbreviation for state, province, or foreign country. This is applicable only to rail owned TOFC/COFC equipment².</p>
73	<p>Total Weight on Rail (3-digit numeric)</p> <p>The actual total weight allowable on rail based on journal size, wheel size, or car construction and wheel truck (assuming 4 axles per car), listed in thousands of pounds².</p>
74	<p>Origin SPLC (6-digit numeric)</p> <p>The Standard Point Location Code of the origin station³.</p>
75	<p>Destination SPLC (6-digit numeric)</p> <p>The Standard Point Location Code of the destination station³.</p>
76	<p>Commodity Code (non-HAZMAT STCC) (7-digit numeric)</p> <p>The commodity code, as reported in field 12, with hazardous codes (49xxxxx) and bulk codes (50xxxxx) translated to the actual product commodity code⁸.</p>
77	<p>Origin Railroad Alpha (4-character alpha)</p> <p>The Accounting Rule 260 alpha abbreviation for the origin railroad³.</p>
78	<p>First Interchange RR Alpha (4-character alpha)</p> <p>The Accounting Rule 260 alpha abbreviation for the first bridge railroad³.</p>

Field	Description
79	Second Interchange RR Alpha (4-character alpha) The Accounting Rule 260 alpha abbreviation for the second bridge railroad ³ .
80	Third Interchange RR Alpha (4-character alpha) The Accounting Rule 260 alpha abbreviation for the third bridge railroad ³ .
81	Fourth Interchange RR Alpha (4-character alpha) The Accounting Rule 260 alpha abbreviation for the fourth bridge railroad ³ .
82	Fifth Interchange RR Alpha (4-character alpha) The Accounting Rule 260 alpha abbreviation for the fifth bridge railroad ³ .
83	Sixth Interchange RR Alpha (4-character alpha) The Accounting Rule 260 alpha abbreviation for the sixth bridge railroad ³ .
84	Seventh Interchange RR Alpha (4-character alpha) The Accounting Rule 260 alpha abbreviation for the seventh bridge railroad ³ . This field has been removed from the 913-byte file layout.
85	Eighth Interchange RR Alpha (4-character alpha) The Accounting Rule 260 alpha abbreviation for the eighth bridge railroad ³ . This field has been removed from the 913-byte file layout.
86	Termination Railroad Alpha (4-character alpha) The Accounting Rule 260 alpha abbreviation for the termination railroad ³ .
87	Junction Frequency (1-digit numeric) This figure represents the total number of junctions (between railroads) in the route ⁶ .
88	Theoretical Expansion Factor (3-digit numeric) The theoretical expansion factor is the inverse of the sampling rate, as indicated by the stratum identification in field 26, and is used to expand the car, ton, trailer/container, and revenue statistics to 100% levels ⁶ .

Field	Description
89	<p>Routing Error Flag (1-character alpha)</p> <p>This field contains either a ‘T’ (true) or an ‘F’ (false). An ‘F’ indicates that Railinc was not able to sufficiently identify the actual origin or termination point of the route, to calculate a carrying distance for one or more railroads in the route. An ‘F’ in this field will be accompanied by a ‘99999’ in the total distance field (and one or more railroad distance fields), and ‘99999’ in all the split revenue fields⁶.</p>
90	<p>STB Car Type (2-digit numeric)</p> <p>The STB car type is inferred from the AAR Equipment Type, as described in field 70, and corresponds to the line number on STB Form 710 for type of car⁴. (See Table 4-9. STB Car Types)⁴</p>
92	<p>AAR/Railinc Error Codes (2-digit numeric, repeated 3 times)</p> <p>Up to 3 two-digit error codes are appended to the end of each waybill record. Refer to the following sub-section, entitled “Waybill Error Codes and Messages,” for specific error code definitions⁵.</p>
93	<p>Car Ownership Category (1-character alpha)</p> <p>Designates the Car Owner Category:</p> <p>(R) Railroad owned (P) Privately owned (T) TTX owned</p>
94	<p>AAR Trailer/Container Equipment Type Code (4-character alphanumeric)</p> <p>Alpha/numeric code giving a general physical description of the type of intermodal equipment².</p> <p>Note: If Trailer/Container unit was not found in Umler it has been given the most common trailer or container type for its STC Code.</p>
95	<p>Deregulation Date (8-digit numeric)</p> <p>The exact date (ccyymmdd) of the commodity’s deregulation where, cc = century, yy = year, mm = month, dd = day⁸.</p> <p>Note: Use of this flag will only be determined by commodity, not equipment type.</p>

Field	Description
96	<p>Deregulation Flag (1-character alpha)</p> <p>Identifies commodity movements which were exempt from regulation under Ex Parte 346. This flag is coded as '1' if the commodity was deregulated at any time during the waybill processing year. If the commodity was not deregulated during the waybill processing year, the field is coded as '2'⁸.</p> <p>Note: Use of this flag will only be determined by commodity, not equipment type.</p>
97	<p>Service Type (1-digit numeric)</p> <p>This flag is used by Railinc for routing and calculating miles for each record. Different routing formulas are used for different service types, yielding mileage that more accurately reflects railroad operating patterns.</p> <ol style="list-style-type: none"> (1) All other traffic not included in service types 2, 3 or 4. (2) Intermodal and finished automobiles, where the TOFC plan is non-zero or the AAR equipment type code begins with P, Q, S, or Z. (3) Coal, coke, iron ore and bulk grain, where service type is not 2, and the 2-digit STCC is 11, or the 5-digit STCC is 29913-29914, or the 3-digit STCC is 101, or the 5-digit STCC is 01130-01139 and the AAR equipment type code begins with C (designating a covered hopper). (4) Auto Racks/Finished Automobiles where AAR equipment type is V⁶.
98	<p>Expanded Carloads (6-digit numeric)</p> <p>The number of carloads (field 5) multiplied by the expansion factor (field 88)⁶.</p>
99	<p>Billed Weight in Tons (7-digit numeric)</p> <p>The billed weight (field 13) calculated in tons⁶.</p>
100	<p>Expanded Tons (8-digit numeric)</p> <p>The billed weight in tons (field 99) multiplied by the expansion factor (field 88)⁶.</p>
101	<p>Expanded Trailer/Container Count (6-digit numeric)</p> <p>The number of TOFC/COFC units (field 9) multiplied by the expansion factor (field 88)⁶.</p>

Field	Description
102	<p>Expanded Total Revenue (10-digit numeric)</p> <p>The total freight revenue (field 15) multiplied by the expansion factor (field 88). Revenue splits are calculated by Railinc in the following manner: the waybill's expanded freight revenue figure is divided by the number of 100-mile blocks traveled by each railroad in the route. The origin railroad is apportioned revenue for an additional block, to allow for pick-up and switching expenses. Likewise, the termination railroad is credited with revenue for an additional block, to allow for delivery expenses⁶.</p>
103	<p>Origin Railroad Split Revenue (10-digit numeric)</p> <p>That portion of the total expanded revenue (field 102) assigned to the origin railroad⁶.</p>
104	<p>First Interchange RR Split Revenue (10-digit numeric)</p> <p>That portion of the total expanded revenue (field 102) assigned to the second rail carrier in the route⁶.</p>
105	<p>Second Interchange RR Split Revenue (10-digit numeric)</p> <p>That portion of the total expanded revenue (field 102) assigned to the third rail carrier in the route⁶.</p>
106	<p>Third Interchange RR Split Revenue (10-digit numeric)</p> <p>That portion of the total expanded revenue (field 102) assigned to the fourth rail carrier in the route⁶.</p>
107	<p>Fourth Interchange RR Split Revenue (10-digit numeric)</p> <p>That portion of the total expanded revenue (field 102) assigned to the fifth rail carrier in the route⁶.</p>
108	<p>Fifth Interchange RR Split Revenue (10-digit numeric)</p> <p>That portion of the total expanded revenue (field 102) assigned to the sixth rail carrier in the route⁶.</p>
109	<p>Sixth Interchange RR Split Revenue (10-digit numeric)</p> <p>That portion of the total expanded revenue (field 102) assigned to the seventh rail carrier in the route⁶.</p>

Field	Description
112	<p>Termination Railroad Split Revenue (10-digit numeric)</p> <p>That portion of the total expanded revenue (field 102) assigned to the termination rail carrier in the route⁶.</p>
113	<p>First Railroad Distance (5-digit numeric, implied nnnn.n)</p> <p>The actual distance traveled by the first carrier in the route, as calculated by Railinc, using the Princeton Transportation Network Model. If, due to deficiencies in the route information, RAILINC was unable to calculate a distance for the first carrier, this field will contain the number '99999', as indicated by the Routing Error Flag (field 89)⁶.</p>
114	<p>Second Railroad Distance (5-digit numeric, implied nnnn.n)</p> <p>The actual distance traveled by the second carrier in the route, as calculated by RAILINC, using the Princeton Transportation Network Model. If, due to deficiencies in the route information, RAILINC was unable to calculate a distance for the second carrier, this field will contain the number '99999', as indicated by the Routing Error Flag (field 89)⁶.</p>
115	<p>Third Railroad Distance (5-digit numeric, implied nnnn.n)</p> <p>The actual distance traveled by the third carrier in the route, as calculated by RAILINC, using the Princeton Transportation Network Model. If, due to deficiencies in the route information, RAILINC was unable to calculate a distance for the third carrier, this field will contain the number '99999', as indicated by the Routing Error Flag (field 89)⁶.</p>
116	<p>Fourth Railroad Distance (5-digit numeric, implied nnnn.n)</p> <p>The actual distance traveled by the fourth carrier in the route, as calculated by RAILINC, using the Princeton Transportation Network Model. If, due to deficiencies in the route information, RAILINC was unable to calculate a distance for the third carrier, this field will contain the number '99999', as indicated by the Routing Error Flag (field 89)⁶.</p>
117	<p>Fifth Railroad Distance (5-digit numeric, implied nnnn.n)</p> <p>The actual distance traveled by the fifth carrier in the route, as calculated by RAILINC, using the Princeton Transportation Network Model. If, due to deficiencies in the route information, RAILINC was unable to calculate a distance for the third carrier, this field will contain the number '99999', as indicated by the Routing Error Flag (field 89)⁶.</p>

Field	Description
118	<p>Sixth Railroad Distance (5-digit numeric, implied nnnn.n)</p> <p>The actual distance traveled by the sixth carrier in the route, as calculated by RAILINC, using the Princeton Transportation Network Model. If, due to deficiencies in the route information, RAILINC was unable to calculate a distance for the third carrier, this field will contain the number ‘99999’, as indicated by the Routing Error Flag (field 89)⁶.</p>
119	<p>Seventh Railroad Distance (5-digit numeric, implied nnnn.n)</p> <p>The actual distance traveled by the seventh carrier in the route, as calculated by RAILINC, using the Princeton Transportation Network Model. If, due to deficiencies in the route information, RAILINC was unable to calculate a distance for the third carrier, this field will contain the number ‘99999’, as indicated by the Routing Error Flag (field 89)⁶.</p>
122	<p>Termination Railroad Distance (5-digit numeric, implied nnnn.n)</p> <p>The actual distance traveled by the termination carrier in the route, as calculated by RAILINC, using the Princeton Transportation Network Model. If, due to deficiencies in the route information, RAILINC was unable to calculate a distance for the termination carrier, this field will contain the number ‘99999’, as indicated by the Routing Error Flag (field 89)⁶.</p>
123	<p>Total Distance (5-digit numeric, implied nnnn.n)</p> <p>The actual distance traveled by all carriers in the route, as calculated by RAILINC, using the Princeton Transportation Network Model. This field will contain the arithmetic sum of the previous ten fields. If, due to deficiencies in the route information, RAILINC was unable to calculate a distance for one or more carriers in the route, this field will contain the number ‘99999’, as indicated by the Routing Error Flag (field 89)⁶.</p>
124	<p>Origin State Alpha (2-character alpha)</p> <p>The two-character abbreviation for the state in which the reported waybill movement originated³.</p>
125	<p>First Junction State Alpha (2-character alpha)</p> <p>The two-character abbreviation for the state in which the reported waybill’s first junction interchange station is located³.</p>
126	<p>Second Junction State Alpha (2-character alpha)</p> <p>The two-character abbreviation for the state in which the reported waybill’s second junction interchange station is located³.</p>

Field	Description
127	Third Junction State Alpha (2-character alpha) The two-character abbreviation for the state in which the reported waybill’s third junction interchange station is located ³ .
128	Fourth Junction State Alpha (2-character alpha) The two-character abbreviation for the state in which the reported waybill’s fourth junction interchange station is located ³ .
129	Fifth Junction State Alpha (2-character alpha) The two-character abbreviation for the state in which the reported waybill’s fifth junction interchange station is located ³ .
130	Sixth Junction State Alpha (2-character alpha) The two-character abbreviation for the state in which the reported waybill’s sixth junction interchange station is located ³ .
131	Seventh Junction State Alpha (2-character alpha) The two-character abbreviation for the state in which the reported waybill’s seventh junction interchange station is located ³ .
134	Termination State Alpha (2-character alpha) The two-character abbreviation for the state in which the reported waybill movement terminated ³ .
135	Origin BEA Area (3-digit numeric) The Business Economic Area code for the reported waybill movement’s origin location. (See Table 4-4 and Table 4-5 for “Department of Commerce - Bureau of Economic Analysis, Business Economic Area Codes”) ⁷
136	Termination BEA Area (3-digit numeric) The Business Economic Area code for the reported waybill movement’s termination location. (See Table 4-4 and Table 4-5 for “Department of Commerce - Bureau of Economic Analysis, Business Economic Area Codes”) ⁷
137	Origin FIPS Code (5-digit numeric) The Federal Information Processing Standard code for the county in which the reported waybill movement originated ⁷ .

Field	Description
138	<p>Termination FIPS Code (5-digit numeric)</p> <p>The Federal Information Processing Standard code for the county in which the reported waybill movement terminated⁷.</p>
139	<p>Origin Freight Rate Area (2-digit numeric)</p> <p>The freight rate area, as defined by the STB (and imputed from the Standard Point Location Code (SPLC)), in which the reported waybill movement originated. The freight rate areas are defined below⁴:</p> <ol style="list-style-type: none"> <li data-bbox="391 625 1398 1024">(1) Kewaunee, Wisconsin, Sheboygan, Wisconsin; stations on the North Western Railway between Sheboygan and Milwaukee; stations on the Milwaukee Railway from Sheboygan to Milwaukee, thence Wisconsin and Southern to Rugby Junction, Wisconsin; stations on the Soo Line from Rugby Junction to Duplainville, Wisconsin; stations on the Milwaukee Railway from Duplainville to Madison, Wisconsin; stations on the North Western Railway from Madison, Wisconsin, through Montfort Junction, Wisconsin, to Benton, Wisconsin; Mississippi River crossings in Iowa; all stations in Wisconsin south and east of the border of Official Territory; stations in Indiana in the Chicago Switching district; and all stations in Illinois except east bank Mississippi River crossings south of the Missouri/Iowa state line and except north bank Ohio River crossings. <li data-bbox="391 1045 1414 1507">(2) Ohio River crossings on both banks of the Ohio River between Cairo, Illinois, and Cincinnati, Ohio, inclusive; stations on the C&O Railway between Cincinnati, Ohio, and Kenova, West Virginia; stations on the Norfolk and Western between Kenova and the intersection with the Virginian Railway west of Roanoke, Virginia; stations on the Virginian Railway from the foregoing point of intersection of Suffolk, Virginia, stations on the Norfolk and Western between Suffolk and Norfolk, Virginia; stations in Virginia north of the east-west line across Virginia, just described, except those on the “Eastern Shore” but including Washington, D.C.; stations on the branch lines of the Norfolk and Western extending south of its main line (except those stations between Abingdon, Virginia, and West Jefferson, North Carolina, those between Roanoke, Virginia, and Winston-Salem, North Carolina, and those between Brookneal, Virginia, and Durham, North Carolina); and stations on the C&O Railway in Kentucky. <li data-bbox="391 1528 1268 1591">(3) Mississippi River crossings on both banks of the river between the Missouri/Iowa state line and Cairo, Illinois. <li data-bbox="391 1612 1390 1644">(4) All points in Official Territory other than those included in 1, 2, and 3 above. <li data-bbox="391 1665 1398 1696">(5) Mississippi River crossings on both banks of the river south of Cairo, Illinois. <li data-bbox="391 1717 1365 1749">(6) All points in Southern Territory other than those included in 2 and 5 above.

Field	Description
139	<p data-bbox="394 289 1027 312">Origin Freight Rate Area (2-digit numeric) (cont'd)</p> <p data-bbox="394 338 1414 531">(7) All stations on the Burlington Northern, North Western and C&S railways in Wyoming south and east of Sheridan and Casper, Wyoming; stations in Larimer and Boulder Counties, Colorado; stations on the railroads directly connecting Denver and Pueblo, Colorado; stations on the D&RGW Railway between Pueblo and Huerfano County, Colorado; and stations in Huerfano and Las Animas Counties, Colorado.</p> <p data-bbox="394 556 1260 579">(8) Stations in Kansas and Missouri except those included in 3 above.</p> <p data-bbox="394 604 1393 663">(9) Stations in Western Trunk Line Territory except those included in 1, 3, and 7 above.</p> <p data-bbox="394 688 1377 814">(10) El Paso, Texas, and all stations in New Mexico on the east of the line of the Santa Fe Railway extending northward from El Paso through Belen, New Mexico, to the New Mexico/Colorado boundary and, in addition, Santa Fe, New Mexico, and all stations in Colfax County, New Mexico.</p> <p data-bbox="394 840 1344 898">(11) All stations in Southwestern Territory except those described in 5 and 10 above.</p> <p data-bbox="394 924 1377 982">(12) All stations in Mountain-Pacific Territory except those included in 7 and 10 above.</p>
140	<p data-bbox="394 1045 1003 1068">Termination Freight Rate Area (2-digit numeric)</p> <p data-bbox="394 1094 1365 1188">The freight rate area, as defined by the STB (and imputed from the Standard Point Location Code (SPLC)), in which the reported waybill movement terminated. The freight rate areas are defined in field 139⁴.</p>

Field	Description
141	<p data-bbox="394 289 984 312">Origin Freight Rate Territory (1-digit numeric)</p> <p data-bbox="394 338 1382 428">The freight rate territory, as defined by the STB, in which the reported waybill movement originated. Freight rate territories are imputed from the freight rate areas, and are coded as follows⁴:</p> <ul style="list-style-type: none"> <li data-bbox="394 453 756 476">(0) Cannot be Determined <li data-bbox="394 506 1427 1129">(1) Official Territory: Commencing at the eastern terminus of the United States/Canadian boundary on the Atlantic Ocean and proceeding westwardly along the border to the Straits of Mackinac, thence southwestwardly across Lake Michigan to Kewaunee, Wisconsin, thence southward along the shore of Lake Michigan to Manitowoc, Wisconsin, thence southward along the line of the Chicago and North Western Railway to Milwaukee, Wisconsin, thence northwest along the Milwaukee Railway to Rugby Junction, Wisconsin, thence south along the Soo Line to Duplainville, Wisconsin, thence west along the Milwaukee Railway through Montfort Junction, Wisconsin, to Benton, Wisconsin, thence southwest by airline to the intersection of the Wisconsin-Illinois boundary with the Mississippi River, thence south along the Mississippi River to the mouth of the Ohio River, thence eastward along the Ohio to Cincinnati, Ohio, thence eastward along the Chesapeake and Ohio Railway to Kenova, West Virginia, thence eastward along the Norfolk and Western Railway to its intersection with the former Virginian Railway (now Norfolk and Western) west of Roanoke, Virginia, thence east along the former Virginian Railway to Suffolk, Virginia, thence northeast along the Norfolk and Western Railway to Norfolk, Virginia, and then northeastward along the Atlantic Coast to the point of beginning. <li data-bbox="394 1159 1427 1318">(2) Southern Territory: Commencing at Norfolk, Virginia, and proceeding westwardly along the southern border of Official Territory as described in (1) above, to the mouth of the Ohio River, thence south along the Mississippi River to its mouth, and thence east and north along the Gulf and Atlantic Coast to the point of beginning. <li data-bbox="394 1348 1427 1667">(3) Western Trunk Line Territory: Commencing at the Straits of Mackinac and following the international boundary northeastward and thence westward to the western boundary of North Dakota, thence south along the North Dakota and South Dakota/Montana line to Sheridan, Wyoming, thence southward along the line of the Burlington system to the Colorado/New Mexico line, thence eastward following the northern boundary of New Mexico, Oklahoma, and Arkansas to the Mississippi River, thence northward along the Mississippi River to the Wisconsin/Illinois line, and thence back to the point of beginning following the northwest boundary of Official Territory, as described in (1) above.

Field	Description
141	<p>Origin Freight Rate Territory (1-digit numeric) (cont'd)</p> <p>(4) Southwestern Territory: Commencing at the intersection of the Missouri/Arkansas boundary with the Mississippi River and proceeding westward along the southern boundary of Missouri, Kansas and Colorado to the point where the Santa Fe Railway crosses the Colorado/New Mexico line, thence southward along the Santa Fe Railway to El Paso, Texas, thence following the international boundary to the mouth of the Rio Grande River, thence along the Gulf Coast to the mouth of the Mississippi River, and thence northward along the Mississippi River to the point of beginning.</p> <p>(5) Mountain-Pacific Territory: That portion of the United States which lies west of the western boundaries of Western Trunk Line and Southwestern Territories as described in (3) and (4) above.</p>
142	<p>Termination Freight Rate Territory (1-digit numeric)</p> <p>The freight rate territory, as defined by the STB, in which the reported waybill movement terminated. Freight rate territories are imputed from the freight rate areas. See field 141 for full descriptions.</p> <p>(0) Cannot be Determined (1) Official Territory (2) Southern Territory (3) Western Trunk Line Territory (4) Southwestern Territory (5) Mountain-Pacific Territory⁴</p>
143	<p>Origin SMSA (4-digit numeric)</p> <p>The Standard Metropolitan Statistical Area code for the reported waybill movement's origin location⁷.</p>
144	<p>Termination SMSA (4-digit numeric)</p> <p>The Standard Metropolitan Statistical Area code for the reported waybill movement's termination location⁷.</p>
145	<p>Origin NET3 Number (5-digit numeric)</p> <p>The Princeton Transportation Network Model number for the node to which the waybill movement's origin location is assigned⁶.</p>
146	<p>First Junction NET3 Number (5-digit numeric)</p> <p>The Princeton Transportation Network Model number for the node to which the waybill route's first junction location is assigned⁶.</p>

Field	Description
147	<p>Second Junction NET3 Number (5-digit numeric)</p> <p>The Princeton Transportation Network Model number for the node to which the waybill route's second junction location is assigned⁶.</p>
148	<p>Third Junction NET3 Number (5-digit numeric)</p> <p>The Princeton Transportation Network Model number for the node to which the waybill route's third junction location is assigned⁶.</p>
149	<p>Fourth Junction NET3 Number (5-digit numeric)</p> <p>The Princeton Transportation Network Model number for the node to which the waybill route's fourth junction location is assigned⁶.</p>
150	<p>Fifth Junction NET3 Number (5-digit numeric)</p> <p>The Princeton Transportation Network Model number for the node to which the waybill route's fifth junction location is assigned⁶.</p>
151	<p>Sixth Junction NET3 Number (5-digit numeric)</p> <p>The Princeton Transportation Network Model number for the node to which the waybill route's sixth junction location is assigned⁶.</p>
152	<p>Seventh Junction NET3 Number (5-digit numeric)</p> <p>The Princeton Transportation Network Model number for the node to which the waybill route's seventh junction location is assigned⁶.</p>
155	<p>Termination NET3 Number (5-digit numeric)</p> <p>The Princeton Transportation Network Model number for the node to which the waybill movement's termination location is assigned⁶.</p>
156	<p>State Through Flags (1-digit numeric, repeated 52 times)</p> <p>A '1' indicates that the reported waybill route passes through the particular state⁶.</p>
157	<p>International Harmonized Code (12-character alpha)</p> <p>The International Harmonized Code is a twelve-digit code in the following format: XXXX.XX.XXXX. It contains a description derived from the conversion of the Harmonized Tariff Schedule of the <i>United States - Trade Policy Staff Committee, Office of the U.S. Trade Representative, Washington, D.C. 20506</i>⁸</p> <p>Note: 'XXXX.XX.XXXX' indicates no data is available.</p>

Field	Description
158	<p>Standard Industrial Classification (4-character alpha)</p> <p>The Standard Industrial Classification (SIC) is a four-character code that contains the statistical classification standard underlying all establishment-based federal economic statistics classified by industry. <i>Standard Industrial Classification Manual 1978</i> - Executive Office of the President, Office of Management and Budget⁸.</p> <p>Note: ‘XXXX’ indicates no data is available.</p>
159	<p>International Standard Industrial Classification (4-character alpha)</p> <p>The International Standard Industrial Classification is a four-character code containing the statistical classification standard underlying all establishment-based international economic statistics classified by industry. <i>International Standard Industrial Classification</i> - Executive Office of the President, Office of Management and Budget⁸.</p> <p>Note: ‘XXXX’ indicates no data is available.</p>
160	<p>Dominion of Canada Code (3-character alpha)</p> <p>The Dominion of Canada Code is a three-character code and is used in the monthly Canadian “Railway Transport-Revenue Freight Traffic” publication and in Schedule 35 of the Canadian “Annual Railway Transport” report⁸.</p> <p>Note: ‘XXX’ indicates no data is available.</p>
161	<p>CS54 Group Code (2-character alpha)</p> <p>The CS54 Group Code is a two-character code and is based on commodity classifications used in the weekly car loading report form CS54. (See CS54 Group Codes)⁸</p>
162	<p>Origin Freight Station Type (1-character alpha; repeated up to 4 times)</p> <p>The type of station, where:</p> <ul style="list-style-type: none"> (R) Railroad Freight Tariff Location (M) Motor Freight Tariff Location (I) Interchange point (H) Haulage point (J) Junction Settlement point (W) Switching point (O) Railroad Operating Location³ <p>Note: ‘X’ indicates no data is available.</p>

Field	Description
163	<p>Destination Freight Station Type (1-character alpha; repeated up to 4 times)</p> <p>The type of station, where:</p> <ul style="list-style-type: none"> (R) Railroad Freight Tariff Location (M) Motor Freight Tariff Location (I) Interchange point (H) Haulage point (J) Junction Settlement point (W) Switching point (O) Railroad Operating Location³ <p>Note: 'X' indicates no data is available.</p>
164	<p>Origin Freight Station Rating ZIP (9-digit numeric)</p> <p>The ZIP Code used to represent the geographic area covered for rating purposes. Normally, only a three, four or five-digit ZIP Code is provided³.</p>
165	<p>Destination Freight Station Rating ZIP (9-digit numeric)</p> <p>The ZIP Code used to represent the geographic area covered for rating purposes. Normally, only a three, four or five-digit ZIP Code is provided³.</p>
166	<p>Origin Rate Base SPLC (9-digit numeric)</p> <p>The Standard Point Location Code (SPLC) of the rate base. The SPLC data base, copyrighted by the National Motor Freight Traffic Association (NMFTA), is designed to provide each point originating freight and each point receiving freight with a unique code number so constructed as to identify the point as a geographic location. SPL Codes are based on a six-digit system of nesting recognized entities and numbering them in a standard geographic pattern. The nesting system is STATE - COUNTY - CITY (POINT), using two digits to identify each. Although not currently in use by the rail industry, an additional three-digit code may be added to each six-digit SPLC to further identify specific rate base locations³.</p>
167	<p>Destination Rate Base SPLC (9-digit numeric)</p> <p>The Standard Point Location Code (SPLC) of the rate base. The SPLC data base, copyrighted by the National Motor Freight Traffic Association (NMFTA), is designed to provide each point originating freight and each point receiving freight with a unique code number so constructed as to identify the point as a geographic location. SPL Codes are based on a six-digit system of nesting recognized entities and numbering them in a standard geographic pattern. The nesting system is STATE - COUNTY - CITY (POINT), using two digits to identify each. Although not currently in use by the rail industry, an additional three-digit code may be added to each six-digit SPLC to further identify specific rate base locations³.</p>

Field	Description
168	<p>Origin Switch Limit SPLC (9-digit numeric)</p> <p>The Standard Point Location Code (SPLC) of the switch limit. The SPLC data base, copyrighted by the National Motor Freight Traffic Association (NMFTA), is designed to provide each point originating freight and each point receiving freight with a unique code number so constructed as to identify the point as a geographic location. SPL Codes are based on a six-digit system of nesting recognized entities and numbering them in a standard geographic pattern. The nesting system is STATE - COUNTY - CITY (POINT), using two digits to identify each. Although not currently in use by the rail industry, an additional three-digit code may be added to each six-digit SPLC to further identify specific rate base locations³.</p>
169	<p>Destination Switch Limit SPLC (9-digit numeric)</p> <p>The Standard Point Location Code (SPLC) of the switch limit. The SPLC data base, copyrighted by the National Motor Freight Traffic Association (NMFTA), is designed to provide each point originating freight and each point receiving freight with a unique code number so constructed as to identify the point as a geographic location. SPL Codes are based on a six-digit system of nesting recognized entities and numbering them in a standard geographic pattern. The nesting system is STATE - COUNTY - CITY (POINT), using two digits to identify each. Although not currently in use by the rail industry, an additional three-digit code may be added to each six-digit SPLC to further identify specific rate base locations³.</p>
170	<p>Origin Customs Flag (1-character alpha)</p> <p>Whether U.S. Customs will inspect cars and intermodal equipment requiring customs clearance at this station.</p> <p>(Y) Cars and trailers/containers can be inspected at this station.</p> <p>(N) Customs inspections are not made here³.</p> <p>Note: "X" indicates no data is available.</p>
171	<p>Destination Customs Flag (1-character alpha)</p> <p>Whether U.S. Customs will inspect cars and intermodal equipment requiring customs clearance at this station.</p> <p>(Y) Cars and trailers/containers can be inspected at this station.</p> <p>(N) Customs inspections are not made here³.</p> <p>Note: "X" indicates no data is available.</p>

Field	Description
172	<p>Origin Grain Flag (1-character alpha)</p> <p>Whether recognized grain inspection authorities inspect grain at this station.</p> <p>(Y) Grain can be inspected at this station.</p> <p>(N) Grain inspections are not made at this station³.</p> <p>Note: “X” indicates no data is available.</p>
173	<p>Destination Grain Flag (1-character alpha)</p> <p>Whether recognized grain inspection authorities inspect grain at this station.</p> <p>(Y) Grain can be inspected at this station.</p> <p>(N) Grain inspections are not made at this station³.</p> <p>Note: “X” indicates no data is available.</p>
174	<p>Origin Automobile Ramp Facility Code (1-character alpha)</p> <p>Whether automobiles can be physically loaded/unloaded from multilevel cars at this station.</p> <p>(N) No auto unloading facilities exist at the station</p> <p>(F) Fixed Ramp(s) are located at station</p> <p>(P) Portable Ramp(s) are located at station</p> <p>(T) Traversing</p> <p>(B) Both fixed and portable ramps</p> <p>(A) All types of ramps³</p> <p>Note: “X” indicates no data is available.</p>
175	<p>Destination Automobile Ramp Facility Code (1-character alpha)</p> <p>Whether automobiles can be physically loaded/unloaded from multilevel cars at this station.</p> <p>(N) No auto unloading facilities exist at the station</p> <p>(F) Fixed Ramp(s) are located at station</p> <p>(P) Portable Ramp(s) are located at station</p> <p>(T) Traversing</p> <p>(B) Both fixed and portable ramps</p> <p>(A) All types of ramps³</p> <p>Note: “X” indicates no data is available.</p>

Field	Description
176	<p>Origin Intermodal Flag (1-character alpha)</p> <p>Whether facilities exist to physically load/unload trailer/containers from rail cars at this station, where:</p> <ul style="list-style-type: none"> (0) No intermodal loading/unloading facilities exist at the station (1) Circus type ramp (2) Overhead crane (3) Side lifter (5) Stack Train (C) Facility has been closed³ <p>Note: “X” indicates no data is available.</p>
177	<p>Destination Intermodal Flag (1-character alpha)</p> <p>Whether facilities exist to physically load/unload trailer/containers from rail cars at this station, where:</p> <ul style="list-style-type: none"> (0) No intermodal loading/unloading facilities exist at the station (1) Circus type ramp (2) Overhead crane (3) Side lifter (5) Stack Train (C) Facility has been closed³ <p>Note: “X” indicates no data is available.</p>
179	<p>Blank Space reserved for future changes (13-characters)</p>
180	<p>Origin Census Region (4-character alpha)</p> <p>(See Figure 4-1, U.S. Census Regions.)</p>
181	<p>Termination Census Region (4-character alpha)</p> <p>(See Figure 4-1, U.S. Census Regions.)</p>
182	<p>Exact Expansion Factor (7-digit numeric)</p> <p>The exact expansion factor is calculated for each waybill, according to the formula shown below, and is used to expand the car, ton, trailer/container, and revenue statistics to 100% levels. The format of this factor is ‘nnn.nn’ with an implied decimal point⁴.</p> $\text{Factor} = (\text{Population count} / \text{Sample count})$

Field	Description
183	<p>Total Variable Cost (8-digit numeric)</p> <p>The expanded variable cost for all railroads in the waybill computed using the Uniform Railroad Costing System (URCS). URCS produces average variable costs for Class I railroads using railroad specific accounting and operating data. Costs for local and regional railroads use URCS regional data. Ex Parte 270 (Sub 4) multiple car and unit train cost reductions are applied to multiple car shipment costs to reflect economies of scale. The costs removed from multiple car shipments are apportioned back to single car traffic using railroad specific “make whole” values. URCS costs are computed by the Surface Transportation Board⁴.</p>
185	<p>Railroad 1 Variable Cost (8-digit numeric)</p> <p>The portion of the total variable cost (field 183) for the first rail carrier in the route. Includes multiple car and unit train cost reductions or a railroad specific, single car “make whole” cost, as appropriate⁴.</p>
186	<p>Railroad 2 Variable Cost (8-digit numeric)</p> <p>The portion of the total variable cost (field 183) for the second rail carrier in the route. Includes multiple car and unit train cost reductions or a railroad specific, single car “make whole” cost, as appropriate⁴.</p>
187	<p>Railroad 3 Variable Cost (8-digit numeric)</p> <p>The portion of the total variable cost (field 183) for the third rail carrier in the route. Includes multiple car and unit train cost reductions or a railroad specific, single car “make whole” cost, as appropriate⁴.</p>
188	<p>Railroad 4 Variable Cost (8-digit numeric)</p> <p>The portion of the total variable cost (field 183) for the fourth rail carrier in the route. Includes multiple car and unit train cost reductions or a railroad specific, single car “make whole” cost, as appropriate⁴.</p>
189	<p>Railroad 5 Variable Cost (8-digit numeric)</p> <p>The portion of the total variable cost (field 183) for the fifth rail carrier in the route. Includes multiple car and unit train cost reductions or a railroad specific, single car “make whole” cost, as appropriate⁴.</p>
190	<p>Railroad 6 Variable Cost (8-digit numeric)</p> <p>The portion of the total variable cost (field 183) for the sixth rail carrier in the route. Includes multiple car and unit train cost reductions or a railroad specific, single car “make whole” cost, as appropriate⁴.</p>

Field	Description
191	<p>Railroad 7 Variable Cost (8-digit numeric)</p> <p>The portion of the total variable cost (field 183) for the seventh rail carrier in the route. Includes multiple car and unit train cost reductions or a railroad specific, single car “make whole” cost, as appropriate⁴.</p>
192	<p>Railroad 8 Variable Cost (8-digit numeric)</p> <p>The portion of the total variable cost (field 183) for the eighth rail carrier in the route. Includes multiple car and unit train cost reductions or a railroad specific, single car “make whole” cost, as appropriate⁴.</p>
193	<p>Transborder Flag (1-digit numeric)</p> <p>STB requires railroads to report information on either the entire international movement or treat the US portion of the movement as terminating at or near the border. Near the border is defined as either the last station or interchange point in the US that is within approximately 10 miles of the border, or the first station or interchange point in Canada or Mexico.</p> <p>(0) Normal Transborder (1) Near the Border (2) Not a Transborder¹</p>
194	<p>Origin Railroad Country Code (2-character alpha)</p> <p>Country code for the origin railroad.</p> <p>“US” = United States “CA” = Canada “MX” = Mexico</p> <p>Routes on Canadian Pacific and Canadian National are split into US and Canada portions - CNUS/CPUS for US operations and CN/CPRS for Canadian operations. The country codes for CNUS/CPUS will be “US” and CPRS/CN will be “CA”.</p>

Field	Description
195	<p>First Interchange Railroad Country Code (2-character alpha)</p> <p>Country code for the first bridge railroad.</p> <p>“US” = United States</p> <p>“CA” = Canada</p> <p>“MX” = Mexico</p> <p>Routes on Canadian Pacific and Canadian National are split into US and Canada portions - CNUS/CPUS for US operations and CN/CPRS for Canadian operations. The country codes for CNUS/CPUS will be “US” and CPRS/CN will be “CA”.</p>
196	<p>Second Interchange Railroad Country Code (2-character alpha)</p> <p>Country code for the second bridge railroad.</p> <p>“US” = United States</p> <p>“CA” = Canada</p> <p>“MX” = Mexico</p> <p>Routes on Canadian Pacific and Canadian National are split into US and Canada portions - CNUS/CPUS for US operations and CN/CPRS for Canadian operations. The country codes for CNUS/CPUS will be “US” and CPRS/CN will be “CA”.</p>
197	<p>Third Interchange Railroad Country Code (2-character alpha)</p> <p>Country code for the third bridge railroad.</p> <p>“US” = United States</p> <p>“CA” = Canada</p> <p>“MX” = Mexico</p> <p>Routes on Canadian Pacific and Canadian National are split into US and Canada portions - CNUS/CPUS for US operations and CN/CPRS for Canadian operations. The country codes for CNUS/CPUS will be “US” and CPRS/CN will be “CA”.</p>

Field	Description
198	<p>Fourth Interchange Railroad Country Code (2-character alpha)</p> <p>Country code for the fourth bridge railroad.</p> <p>“US” = United States</p> <p>“CA” = Canada</p> <p>“MX” = Mexico</p> <p>Routes on Canadian Pacific and Canadian National are split into US and Canada portions - CNUS/CPUS for US operations and CN/CPRS for Canadian operations. The country codes for CNUS/CPUS will be “US” and CPRS/CN will be “CA”.</p>
199	<p>Fifth Interchange Railroad Country Code (2-character alpha)</p> <p>Country code for the fifth bridge railroad.</p> <p>“US” = United States</p> <p>“CA” = Canada</p> <p>“MX” = Mexico</p> <p>Routes on Canadian Pacific and Canadian National are split into US and Canada portions - CNUS/CPUS for US operations and CN/CPRS for Canadian operations. The country codes for CNUS/CPUS will be “US” and CPRS/CN will be “CA”.</p>
200	<p>Sixth Interchange Railroad Country Code (2-character alpha)</p> <p>Country code for the sixth bridge railroad.</p> <p>“US” = United States</p> <p>“CA” = Canada</p> <p>“MX” = Mexico</p> <p>Routes on Canadian Pacific and Canadian National are split into US and Canada portions - CNUS/CPUS for US operations and CN/CPRS for Canadian operations. The country codes for CNUS/CPUS will be “US” and CPRS/CN will be “CA”.</p>

Field	Description
201	<p>Termination Railroad Country Code (2-character alpha)</p> <p>Country code for the termination railroad.</p> <p>“US” = United States</p> <p>“CA” = Canada</p> <p>“MX” = Mexico</p> <p>Routes on Canadian Pacific and Canadian National are split into US and Canada portions - CNUS/CPUS for US operations and CN/CPRS for Canadian operations. The country codes for CNUS/CPUS will be “US” and CPRS/CN will be “CA”.</p>
202	<p>Fuel Surcharge (9-digit numeric)</p> <p>Show any fuel surcharge in dollars for the study waybill. This field should not be masked.</p>
203	<p>Unique Tracking Number (13-digit numeric)</p> <p>A unique number assigned to each record in the file. The tracking number differs from Field 1 because the unique tracking number will not change from monthly to annual files.</p>

- Sources:
- 1 Reported by Railroad
 - 2 Umler - function of Car Initial (field 6) and Car Number (field 7)
 - 3 Centralized Station Master (CSM) - function of Railroad (field 33, 51) and Freight Station (field 32, 52)
 - 4 Surface Transportation Board (STB) - Uniform Rail Costing System (URCS)
 - 5 Association of American Railroads
 - 6 US Department of Commerce
 - 7 Standard Transportation Commodity Code (STCC)
 - 8 US Census Bureau

Surface Transportation Board (STB) Codes

Table 4-4. STB BEA Codes

001	Bangor, ME	034	Tampa-St. Petersburg-Clearwater, FL
002	Portland, ME	035	Tallahassee, FL-GA
003	Boston-Worcester-Lawrence-Lowell-Brockton, MA-NH-RI-VT	036	Dothan, AL-FL-GA
004	Burlington, VT-NY	037	Albany, GA
005	Albany-Schenectady-Troy, NY	038	Macon, GA
006	Syracuse, NY-PA	039	Columbus, GA-AL
007	Rochester, NY-PA	040	Atlanta, GA-AL-NC
008	Buffalo-Niagara Falls, NY-PA	041	Greenville-Spartanburg-Anderson, SC-NC
009	State College, PA	042	Asheville, NC
010	New York-No. New Jersey-Long Island, NY-NJ-CT-PA-MA-VT	043	Chattanooga, TN-GA
011	Harrisburg-Lebanon-Carlisle, PA	044	Knoxville, TN
012	Philadelphia-Wilmington-Atlantic City, PA-NJ-DE-MD	045	Johnson City-Kingsport-Bristol, TN-VA
013	Washington-Baltimore, DC-MD-VA-WV-PA	046	Hickory-Morganton, NC-TN
014	Salisbury, MD-DE-VA	047	Lexington, KY-TN-VA-WV
015	Richmond-Petersburg, VA	048	Charleston, WV-KY-OH
016	Staunton, VA-WV	049	Cincinnati-Hamilton, OH-KY-IN
017	Roanoke, VA-NC-WV	050	Dayton-Springfield, OH
018	Greensboro-Winston-Salem-High Point, NC-VA	051	Columbus, OH
019	Raleigh-Durham-Chapel Hill, NC	052	Wheeling, WV-OH
020	Norfolk-Virginia Beach-Newport News, VA-NC	053	Pittsburgh, PA-WV
021	Greenville, NC	054	Erie, PA
022	Fayetteville, NC	055	Cleveland-Akron, OH-PA
023	Charlotte-Gastonia-Rock Hill, NC-SC	056	Toledo, OH
024	Columbia, SC	057	Detroit-Ann Arbor-Flint, MI
025	Wilmington, NC-SC	058	Northern Michigan, MI
026	Charleston-North Charleston, SC	059	Green Bay, WI-MI
027	Augusta-Aiken, GA-SC	060	Appleton-Oshkosh-Neenah, WI
028	Savannah, GA-SC	061	Traverse City, MI
029	Jacksonville, FL-GA	062	Grand Rapids-Muskegon-Holland, MI
030	Orlando, FL	063	Milwaukee-Racine, WI
031	Miami-Fort Lauderdale, FL	064	Chicago-Gary-Kenosha, IL-IN-WI
032	Fort Myers-Cape Coral, FL	065	Elkhart-Goshen, IN-MI
033	Sarasota-Bradenton, FL	066	Fort Wayne, IN
		067	Indianapolis, IN-IL
		068	Champaign-Urbana, IL
		069	Evansville-Henderson, IN-KY-IL
		070	Louisville, KY-IN
		071	Nashville, TN-KY

- 072 Paducah, KY-IL
- 073 Memphis, TN-AR-MS-KY
- 074 Huntsville, AL-TN
- 075 Tupelo, MS-AL-TN
- 076 Greenville, MS
- 077 Jackson, MS-AL-LA
- 078 Birmingham, AL
- 079 Montgomery, AL
- 080 Mobile, AL
- 081 Pensacola, FL
- 082 Biloxi-Gulfport-Pascagoula, MS
- 083 New Orleans, LA-MS
- 084 Baton Rouge, LA-MS
- 085 Lafayette, LA
- 086 Lake Charles, LA
- 087 Beaumont-Port Arthur, TX
- 088 Shreveport-Bossier City, LA-AR
- 089 Monroe, LA
- 090 Little Rock-North Little Rock, AR
- 091 Fort Smith, AR-OK
- 092 Fayetteville-Springdale-Rogers, AR-MO-OK
- 093 Joplin, MO-KS-OK
- 094 Springfield, MO
- 095 Jonesboro, AR-MO
- 096 St. Louis, MO-IL
- 097 Springfield, IL-MO
- 098 Columbia, MO
- 099 Kansas City, MO-KS
- 100 Des Moines, IA-IL-MO
- 101 Peoria-Pekin, IL
- 102 Davenport-Moline-Rock Island, IA-IL
- 103 Cedar Rapids, IA
- 104 Madison, WI-IL-IA
- 105 La Crosse, WI-MN
- 106 Rochester, MN-IA-WI
- 107 Minneapolis-St. Paul, MN-WI-IA
- 108 Wausau, WI
- 109 Duluth-Superior, MN-WI
- 110 Grand Forks, ND-MN
- 111 Minot, ND
- 112 Bismarck, ND-MT-SD
- 113 Fargo-Moorhead, ND-MN
- 114 Aberdeen, SD
- 115 Rapid City, SD-MT-NE-ND
- 116 Sioux Falls, SD-IA-MN-NE
- 117 Sioux City, IA-NE-SD
- 118 Omaha, NE-IA-MO
- 119 Lincoln, NE
- 120 Grand Island, NE
- 121 North Platte, NE-CO
- 122 Wichita, KS-OK
- 123 Topeka, KS
- 124 Tulsa, OK-KS
- 125 Oklahoma City, OK
- 126 Western Oklahoma, OK
- 127 Dallas-Fort Worth, TX-AR-OK
- 128 Abilene, TX
- 129 San Angelo, TX
- 130 Austin-San Marcos, TX
- 131 Houston-Galveston-Brazoria, TX
- 132 Corpus Christi, TX
- 133 McAllen-Edinburg-Mission, TX
- 134 San Antonio, TX
- 135 Odessa-Midland, TX
- 136 Hobbs, NM-TX
- 137 Lubbock, TX
- 138 Amarillo, TX-NM
- 139 Santa Fe, NM
- 140 Pueblo, CO-NM
- 141 Denver-Boulder-Greeley, CO-KS-NE
- 142 Scottsbluff, NE-WY
- 143 Casper, WY-ID-UT
- 144 Billings, MT-WY
- 145 Great Falls, MT
- 146 Missoula, MT
- 147 Spokane, WA-ID
- 148 Idaho Falls, ID-WY
- 149 Twin Falls, ID
- 150 Boise City, ID-OR
- 151 Reno, NV-CA
- 152 Salt Lake City-Ogden, UT-ID

- 153 Las Vegas, NV-AZ-UT
- 154 Flagstaff, AZ-UT
- 155 Farmington, NM-CO
- 156 Albuquerque, NM-AZ
- 157 El Paso, TX-NM
- 158 Phoenix-Mesa, AZ-NM
- 159 Tucson, AZ
- 160 Los Angeles-Riverside-Orange County, CA-AZ
- 161 San Diego, CA
- 162 Fresno, CA
- 163 San Francisco-Oakland-San Jose, CA
- 164 Sacramento-Yolo, CA
- 165 Redding, CA-OR
- 166 Eugene-Springfield, OR-CA
- 167 Portland-Salem, OR-WA
- 168 Pendleton, OR-WA
- 169 Richland-Kennewick-Pasco, WA
- 170 Seattle-Tacoma-Bremerton, WA
- 171 Anchorage, AK
- 172 Honolulu, HI

Note: Codes are assigned, beginning with 001 in northern Maine, continuing south to Florida, then north to the Great Lakes, and continuing in

a serpentine pattern to the West Coast. Except for the Western Oklahoma economic area (126), the Northern Michigan economic area (058), and the 17 economic areas mainly corresponding to CMSA's, each economic area is named for the metropolitan area or city that is the node of its largest CEA and that is usually, but not always, the largest metropolitan area or city in the economic area. The name of each economic area includes each State that contains counties in that economic area.

Note: The following “BEA” Codes were created by the AAR/RAILINC processing team to maintain uniformity in this data field. These Codes are NOT recognized by the Department of Commerce.

- 173 Newfoundland
- 174 Nova Scotia
- 175 Prince Edward Island
- 176 New Brunswick
- 177 Quebec
- 178 Ontario
- 179 Manitoba
- 180 Saskatchewan
- 181 Alberta
- 182 British Columbia
- 183 Yukon/Northwest Territories
- 184 Puerto Rico
- 185 Mexico

Surface Transportation Codes (BEA County Listing)

Table 4-5. Surface Transportation Codes (BEA County Listing)

BEA	COUNTY	ST	BEA	COUNTY	ST	BEA	COUNTY	ST
001	AROOSTOOK	ME	003	BELKNAP	NH	003	ORANGE	VT
001	HANCOCK	ME	003	BRISTOL	MA	003	PLYMOUTH	MA
001	KENNEBEC	ME	003	BRISTOL	RI	003	PROVIDENCE	RI
001	PENOBSCOT	ME	003	CARROLL	NH	003	ROCKINGHAM	NH
001	PISCATAQUIS	ME	003	CESHIRE	NH	003	STRAFFORD	NH
001	SOMERSET	ME	003	COOS	NH	003	SUFFOLK	MA
001	WALDO	ME	003	DUKES	MA	003	SULLIVAN	NH
001	WASHINGTON	ME	003	ESSEX	MA	003	WASHINGTON	RI
002	ANDROSCOGGIN	ME	003	ESSEX	VT	003	WINDHAM	VT
002	CUMBERLAND	ME	003	GRAFTON	NH	003	WINDSOR	VT
002	FRANKLIN	ME	003	HILLSBORO	NH	003	WORCESTER	MA
002	KNOX	ME	003	KENT	RI	004	ADDISON	VT
002	LINCOLN	ME	003	MERRIMACK	NH	004	CALEDONIA	VT
002	OXFORD	ME	003	MIDDLESEX	MA	004	CHITTENDEN	VT
002	SAGADAHOC	ME	003	NANTUCKET	MA	004	CLINTON	NY
002	YORK	ME	003	NEWPORT	RI	004	ESSEX	NY
003	BARNSTABLE	MA	003	NORFOLK	MA	004	FRANKLIN	NY

BEA	COUNTY	ST	BEA	COUNTY	ST	BEA	COUNTY	ST
004	FRANKLIN	VT	009	ELK	PA	010	WYOMING	PA
004	GRAND ISLE	VT	009	HUNTINGDON	PA	011	ADAMS	PA
004	LAMOILLE	VT	009	JEFFERSON	PA	011	CUMBERLAND	PA
004	ORLEANS	VT	009	MIFFLIN	PA	011	DAUPHIN	PA
004	RUTLAND	VT	009	SOMERSET	PA	011	JUNIATA	PA
004	WASHINGTON	VT	010	BENNINGTON	VT	011	LEBANON	PA
005	ALBANY	NY	010	BERGEN	NJ	011	PERRY	PA
005	COLUMBIA	NY	010	BERKSHIRE	MA	011	YORK	PA
005	FULTON	NY	010	BRONX	NY	012	ATLANTIC	NJ
005	GREENE	NY	010	CARBON	PA	012	BERKS	PA
005	HAMILTON	NY	010	CLINTON	PA	012	BUCKS	PA
005	MONTGOMERY	NY	010	COLUMBIA	PA	012	BURLINGTON	NJ
005	RENSSELAER	NY	010	DUTCHESS	NY	012	CAMDEN	NJ
005	SARATOGA	NY	010	ESSEX	NJ	012	CAPE MAY	NJ
005	SCHENECTADY	NY	010	FAIRFIELD	CT	012	CECIL	MD
005	SCHOHARIE	NY	010	FRANKLIN	MA	012	CHESTER	PA
005	WARREN	NY	010	HAMPDEN	MA	012	CUMBERLAND	NJ
005	WASHINGTON	NY	010	HAMPSHIRE	MA	012	DELAWARE	PA
006	BROOME	NY	010	HARTFORD	CT	012	GLOUCESTER	NJ
006	CAYUGA	NY	010	HUDSON	NJ	012	KENT	DE
006	CHENANGO	NY	010	HUNTERDON	NJ	012	LANCASTER	PA
006	CORTLAND	NY	010	KINGS	NY	012	MONTGOMERY	PA
006	DELAWARE	NY	010	LACKAWANNA	PA	012	NEW CASTLE	DE
006	HERKIMER	NY	010	LEHIGH	PA	012	PHILADELPHIA	PA
006	JEFFERSON	NY	010	LITCHFIELD	CT	012	SALEM	NJ
006	LEWIS	NY	010	LUZERNE	PA	012	SCHUYLKILL	PA
006	MADISON	NY	010	LYCOMING	PA	013	ALLEGANY	MD
006	ONEIDA	NY	010	MERCER	NJ	013	ANNE ARUNDEL	MD
006	ONONDAGA	NY	010	MIDDLESEX	CT	013	ARLINGTON	VA
006	OSWEGO	NY	010	MIDDLESEX	NJ	013	BALT CITY	MD
006	OTSEGO	NY	010	MONMOUTH	NJ	013	BALTIMORE	MD
006	SCHUYLER	NY	010	MONROE	PA	013	BERKELEY	WV
006	ST LAWRENCE	NY	010	MONTOUR	PA	013	CALVERT	MD
006	SUSQUEHANNA	PA	010	MORRIS	NJ	013	CAROLINE	MD
006	TIOGA	NY	010	NASSAU	NY	013	CAROLINE	VA
006	TOMPKINS	NY	010	NEW HAVEN	CT	013	CARROLL	MD
007	BRADFORD	PA	010	NEW LONDON	CT	013	CHARLES	MD
007	CHEMUNG	NY	010	NEW YORK	NY	013	CLARKE	VA
007	GENESEE	NY	010	NORTHAMPTON	PA	013	CULPEPER	VA
007	LIVINGSTON	NY	010	NORTHUMBERLAN	PA	013	DIST OF COLUMBIA	DC
007	MONROE	NY	010	OCEAN	NJ	013	DORCHESTER	MD
007	ONTARIO	NY	010	ORANGE	NY	013	FAIRFAX	VA
007	ORLEANS	NY	010	PASSAIC	NJ	013	FAUQUIER	VA
007	SENECA	NY	010	PIKE	PA	013	FRANKLIN	PA
007	STEBEN	NY	010	PUTNAM	NY	013	FREDERICK	MD
007	TIOGA	PA	010	QUEENS	NY	013	FREDERICK	VA
007	WAYNE	NY	010	RICHMOND	NY	013	FULTON	PA
007	WYOMING	NY	010	ROCKLAND	NY	013	GARRETT	MD
007	YATES	NY	010	SNYDER	PA	013	GRANT	WV
008	ALLEGANY	NY	010	SOMERSET	NJ	013	HAMPSHIRE	WV
008	CATTARAUGUS	NY	010	SUFFOLK	NY	013	HARDY	WV
008	CHAUTAUQUA	NY	010	SULLIVAN	NY	013	HARFORD	MD
008	ERIE	NY	010	SULLIVAN	PA	013	HOWARD	MD
008	MCKEAN	PA	010	SUSSEX	NJ	013	JEFFERSON	WV
008	NIAGARA	NY	010	TOLLAND	CT	013	KENT	MD
008	POTTER	PA	010	ULSTER	NY	013	KING GEORGE	VA
009	BEDFORD	PA	010	UNION	NJ	013	LOUDON	VA
009	BLAIR	PA	010	UNION	PA	013	MADISON	VA
009	CAMBRIA	PA	010	WARREN	NJ	013	MINERAL	WV
009	CAMERON	PA	010	WAYNE	PA	013	MONTGOMERY	MD
009	CENTRE	PA	010	WESTCHESTER	NY	013	MORGAN	WV
009	CLEARFIELD	PA	010	WINDHAM	CT	013	ORANGE	VA

BEA	COUNTY	ST	BEA	COUNTY	ST	BEA	COUNTY	ST
013	PAGE	VA	017	ALLEGHANY	NC	020	ISLE OF WIGHT	VA
013	PRINCE GEORGE	MD	017	AMHERST	VA	020	JAMES CITY	VA
013	PRINCE WILLIA	VA	017	APPOMATTOX	VA	020	MATHEWS	VA
013	QUEEN ANNES	MD	017	BEDFORD	VA	020	NEWPORT NEWS	VA
013	RANDOLPH	WV	017	BOTETOURT	VA	020	NORFOLK	VA
013	RAPPAHANNOCK	VA	017	CAMPBELL	VA	020	PASQUOTANK	NC
013	SAINT MARYS	MD	017	CARROLL	VA	020	PERQUIMANS	NC
013	SHENANDOAH	VA	017	CRAIG	VA	020	SOUTHAMPTON	VA
013	SPOTSYLVANIA	VA	017	FLOYD	VA	020	SUFFOLK	VA
013	STAFFORD	VA	017	FRANKLIN	VA	020	SURRY	VA
013	TALBOT	MD	017	GILES	VA	020	VIRGINIA BCH	VA
013	TUCKER	WV	017	GRAYSON	VA	020	YORK	VA
013	WARREN	VA	017	HALIFAX	VA	021	BEAUFORT	NC
013	WASHINGTON	MD	017	MONROE	WV	021	CARTERET	NC
013	WESTMORELAND	VA	017	MONTGOMERY	VA	021	Craven	NC
014	ACCOMACK	VA	017	PULASKI	VA	021	DARE	NC
014	NORTHAMPTON	VA	017	ROANOKE	VA	021	DUPLIN	NC
014	SOMERSET	MD	017	WYTHE	VA	021	GREENE	NC
014	SUSSEX	DE	018	ALAMANCE	NC	021	HYDE	NC
014	WICOMICO	MD	018	CASWELL	NC	021	JONES	NC
014	WORCESTER	MD	018	DAVIDSON	NC	021	LENOIR	NC
015	ALBEMARLE	VA	018	DAVIE	NC	021	MARTIN	NC
015	AMELIA	VA	018	FORSYTH	NC	021	ONSLOW	NC
015	BRUNSWICK	VA	018	GUILFORD	NC	021	PAMLICO	NC
015	BUCKINGHAM	VA	018	HENRY	VA	021	PITT	NC
015	CHARLES CITY	VA	018	MONTGOMERY	NC	021	TYRRELL	NC
015	CHARLOTTE	VA	018	MOORE	NC	021	WASHINGTON	NC
015	CHESTERFIELD	VA	018	PATRICK	VA	021	WAYNE	NC
015	CUMBERLAND	VA	018	PITTSYLVANIA	VA	022	BLADEN	NC
015	DINWIDDIE	VA	018	RANDOLPH	NC	022	CUMBERLAND	NC
015	ESSEX	VA	018	RICHMOND	NC	022	HOKE	NC
015	FLUVANNA	VA	018	ROCKINGHAM	NC	022	ROBESON	NC
015	GOOCHLAND	VA	018	STOKES	NC	022	SCOTLAND	NC
015	GREENE	VA	018	SURRY	NC	023	ANSON	NC
015	GREENSVILLE	VA	018	WILKES	NC	023	CABARRUS	NC
015	HANOVER	VA	018	YADKIN	NC	023	CHESTER	SC
015	HENRICO	VA	019	CHATHAM	NC	023	CHESTERFIELD	SC
015	KING > QUEEN	VA	019	DURHAM	NC	023	CLEVELAND	NC
015	KING WILLIAM	VA	019	EDGEcombe	NC	023	GASTON	NC
015	LANCASTER	VA	019	FRANKLIN	NC	023	IREDELL	NC
015	LOUISA	VA	019	GRANVILLE	NC	023	LANCASTER	SC
015	LUNENBURG	VA	019	HALIFAX	NC	023	LINCOLN	NC
015	MECKLENBURG	VA	019	HARNETT	NC	023	MARLBORO	SC
015	MIDDLESEX	VA	019	JOHNSTON	NC	023	MECKLENBURG	NC
015	NELSON	VA	019	LEE	NC	023	ROWAN	NC
015	NEW KENT	VA	019	NASH	NC	023	RUTHERFORD	NC
015	NORTHUMBERLAN	VA	019	NORTHAMPTON	NC	023	STANLY	NC
015	NOTTOWAY	VA	019	ORANGE	NC	023	UNION	NC
015	POWHATAN	VA	019	PERSON	NC	023	YORK	SC
015	PRINCE EDWARD	VA	019	SAMPSON	NC	024	CALHOUN	SC
015	PRINCE GEORGE	VA	019	VANCE	NC	024	CLARENDON	SC
015	RICHMOND	VA	019	WAKE	NC	024	FAIRFIELD	SC
015	SUSSEX	VA	019	WARREN	NC	024	KERSHAW	SC
016	ALLEGHANY	VA	019	WILSON	NC	024	LEE	SC
016	AUGUSTA	VA	020	BERTIE	NC	024	LEXINGTON	SC
016	BATH	VA	020	CAMDEN	NC	024	NEWBERRY	SC
016	GREENBRIER	WV	020	CHOWAN	NC	024	ORANGEBURG	SC
016	HIGHLAND	VA	020	CURRITUCK	NC	024	RICHLAND	SC
016	PENDLETON	WV	020	GATES	NC	024	SALUDA	SC
016	POCAHONTAS	WV	020	GLOUCESTER	VA	024	SUMTER	SC
016	ROCKBRIDGE	VA	020	HAMPTON	VA	025	BRUNSWICK	NC
016	ROCKINGHAM	VA	020	HERTFORD	NC	025	COLUMBUS	NC

BEA	COUNTY	ST	BEA	COUNTY	ST	BEA	COUNTY	ST
025	DARLINGTON	SC	029	NASSAU	FL	036	GENEVA	AL
025	DILLON	SC	029	PIERCE	GA	036	HENRY	AL
025	FLORENCE	SC	029	PUTNAM	FL	036	HOLMES	FL
025	GEORGETOWN	SC	029	SAINT JOHNS	FL	036	HOUSTON	AL
025	HORRY	SC	029	SUWANNEE	FL	036	QUITMAN	GA
025	MARION	SC	029	UNION	FL	036	WASHINGTON	FL
025	NEW HANOVER	NC	029	WARE	GA	037	BAKER	GA
025	PENDER	NC	030	BREVARD	FL	037	BEN HILL	GA
025	WILLIAMSBURG	SC	030	CITRUS	FL	037	BERRIEN	GA
026	BERKELEY	SC	030	FLAGLER	FL	037	BROOKS	GA
026	CHARLESTON	SC	030	HARDEE	FL	037	CALHOUN	GA
026	COLLETON	SC	030	HIGHLANDS	FL	037	CLAY	GA
026	DORCHESTER	SC	030	LAKE	FL	037	COLQUITT	GA
027	AIKEN	SC	030	MARION	FL	037	COOK	GA
027	ALLENDALE	SC	030	ORANGE	FL	037	DOUGHERTY	GA
027	BAMBERG	SC	030	OSCEOLA	FL	037	ECHOLS	GA
027	BARNWELL	SC	030	POLK	FL	037	IRWIN	GA
027	BURKE	GA	030	SEMINOLE	FL	037	LANIER	GA
027	COLUMBIA	GA	030	SUMTER	FL	037	LEE	GA
027	EDGEFIELD	SC	030	VOLUSIA	FL	037	LOWNDES	GA
027	GLASCOCK	GA	031	BROWARD	FL	037	MITCHELL	GA
027	JEFFERSON	GA	031	DADE	FL	037	RANDOLPH	GA
027	JENKINS	GA	031	GLADES	FL	037	TERRELL	GA
027	LINCOLN	GA	031	HENDRY	FL	037	TIFT	GA
027	MCDUFFIE	GA	031	INDIAN RIVER	FL	037	TURNER	GA
027	RICHMOND	GA	031	MARTIN	FL	037	WORTH	GA
027	WARREN	GA	031	MONROE	FL	038	APPLING	GA
027	WILKES	GA	031	OKEECHOBEE	FL	038	BALDWIN	GA
028	BEAUFORT	SC	031	PALM BEACH	FL	038	BIBB	GA
028	BRYAN	GA	031	SAINT LUCIEN	FL	038	BLECKLEY	GA
028	BULLOCH	GA	032	COLLIER	FL	038	CRAWFORD	GA
028	CANDLER	GA	032	LEE	FL	038	CRISP	GA
028	CHATHAM	GA	033	CHARLOTTE	FL	038	DODGE	GA
028	EFFINGHAM	GA	033	DE SOTO	FL	038	DOOLY	GA
028	EVANS	GA	033	MANATEE	FL	038	EMANUEL	GA
028	HAMPTON	SC	033	SARASOTA	FL	038	HANCOCK	GA
028	JASPER	SC	034	HERNANDO	FL	038	HOUSTON	GA
028	LIBERTY	GA	034	HILLSBOROUGH	FL	038	JEFF DAVIS	GA
028	LONG	GA	034	PASCO	FL	038	JOHNSON	GA
028	SCREVEN	GA	034	PINELLAS	FL	038	JONES	GA
028	TATTNALL	GA	035	BAY	FL	038	LAURENS	GA
028	WAYNE	GA	035	CALHOUN	FL	038	MACON	GA
029	ALACHUA	FL	035	DECATUR	GA	038	MONROE	GA
029	ATKINSON	GA	035	EARLY	GA	038	MONTGOMERY	GA
029	BACON	GA	035	FRANKLIN	FL	038	PEACH	GA
029	BAKER	FL	035	GADSDEN	FL	038	PULASKI	GA
029	BRADFORD	FL	035	GRADY	GA	038	PUTNAM	GA
029	BRANTLEY	GA	035	GULF	FL	038	SCHLEY	GA
029	CAMDEN	GA	035	JACKSON	FL	038	SUMTER	GA
029	CHARLTON	GA	035	JEFFERSON	FL	038	TAYLOR	GA
029	CLAY	FL	035	LEON	FL	038	TELFAIR	GA
029	CLINCH	GA	035	LIBERTY	FL	038	TOOMBS	GA
029	COFFEE	GA	035	MADISON	FL	038	TREUTLEN	GA
029	COLUMBIA	FL	035	MILLER	GA	038	TWIGGS	GA
029	DIXIE	FL	035	SEMINOLE	GA	038	WASHINGTON	GA
029	DUVAL	FL	035	TAYLOR	FL	038	WHEELER	GA
029	GILCHRIST	FL	035	THOMAS	GA	038	WILCOX	GA
029	GLYNN	GA	035	WAKULLA	FL	038	WILKINSON	GA
029	HAMILTON	FL	036	BARBOUR	AL	039	CHATTAHOOCHEE	GA
029	LAFAYETTE	FL	036	COFFEE	AL	039	CLAY	AL
029	LEVY	FL	036	COVINGTON	AL	039	COOSA	AL
029	MCINTOSH	GA	036	DALE	AL	039	HARRIS	GA

BEA	COUNTY	ST	BEA	COUNTY	ST	BEA	COUNTY	ST
039	LEE	AL	040	RANDOLPH	AL	045	HAWKINS	TN
039	MACON	AL	040	ROCKDALE	GA	045	SCOTT	VA
039	MARION	GA	040	SPALDING	GA	045	SMYTH	VA
039	MUSCOGEE	GA	040	STEPHENS	GA	045	SULLIVAN	TN
039	RUSSELL	AL	040	TALBOT	GA	045	UNICOI	TN
039	STEWART	GA	040	TALIAFERRO	GA	045	WASHINGTON	TN
039	TALLAPOOSA	AL	040	TOWNS	GA	045	WASHINGTON	VA
039	WEBSTER	GA	040	TROUP	GA	046	ALEXANDER	NC
040	BANKS	GA	040	UNION	GA	046	ASHE	NC
040	BARROW	GA	040	UPSON	GA	046	AVERY	NC
040	BARTOW	GA	040	WALTON	GA	046	BURKE	NC
040	BUTTS	GA	040	WHITE	GA	046	CALDWELL	NC
040	CARROLL	GA	040	WHITFIELD	GA	046	CATAWBA	NC
040	CHAMBERS	AL	041	ABBEVILLE	SC	046	JOHNSON	TN
040	CHATTOOGA	GA	041	ANDERSON	SC	046	MCDOWELL	NC
040	CHEROKEE	AL	041	CHEROKEE	SC	046	MITCHELL	NC
040	CHEROKEE	GA	041	GREENVILLE	SC	046	WATAUGA	NC
040	CHEROKEE	NC	041	GREENWOOD	SC	046	YANCEY	NC
040	CLARKE	GA	041	LAURENS	SC	047	ADAIR	KY
040	CLAY	NC	041	MCCORMICK	SC	047	ANDERSON	KY
040	CLAYTON	GA	041	OCONEE	SC	047	BATH	KY
040	CLEBURNE	AL	041	PICKENS	SC	047	BELL	KY
040	COBB	GA	041	POLK	NC	047	BLAND	VA
040	COWETA	GA	041	SPARTANBURG	SC	047	BOURBON	KY
040	DAWSON	GA	041	UNION	SC	047	BOYLE	KY
040	DE KALB	GA	042	BUNCOMBE	NC	047	BREATHITT	KY
040	DOUGLAS	GA	042	HAYWOOD	NC	047	BUCHANAN	VA
040	ELBERT	GA	042	HENDERSON	NC	047	CASEY	KY
040	FANNIN	GA	042	JACKSON	NC	047	CLAIBORNE	TN
040	FAYETTE	GA	042	MADISON	NC	047	CLARK	KY
040	FLOYD	GA	042	SWAIN	NC	047	CLAY	KY
040	FORSYTH	GA	042	TRANSYLVANIA	NC	047	CLINTON	KY
040	FRANKLIN	GA	043	BLEDSE	TN	047	DICKENSON	VA
040	FULTON	GA	043	BRADLEY	TN	047	ESTILL	KY
040	GILMER	GA	043	CATOOSA	GA	047	FAYETTE	KY
040	GORDON	GA	043	DADE	GA	047	FLEMING	KY
040	GRAHAM	NC	043	HAMILTON	TN	047	FLOYD	KY
040	GREENE	GA	043	MARION	TN	047	FRANKLIN	KY
040	GWINNETT	GA	043	MCMINN	TN	047	GARRARD	KY
040	HABERSHAM	GA	043	MEIGS	TN	047	GREEN	KY
040	HALL	GA	043	MONROE	TN	047	HARLAN	KY
040	HARALSON	GA	043	POLK	TN	047	HARRISON	KY
040	HART	GA	043	RHEA	TN	047	JACKSON	KY
040	HEARD	GA	043	SEQUATCHIE	TN	047	JESSAMINE	KY
040	HENRY	GA	043	WALKER	GA	047	JOHNSON	KY
040	JACKSON	GA	044	ANDERSON	TN	047	KNOTT	KY
040	JASPER	GA	044	BLOUNT	TN	047	KNOX	KY
040	LAMAR	GA	044	CAMPBELL	TN	047	LAUREL	KY
040	LUMPKIN	GA	044	COCKE	TN	047	LAWRENCE	KY
040	MACON	NC	044	GRAINGER	TN	047	LEE	KY
040	MADISON	GA	044	HAMLEN	TN	047	LEE	VA
040	MERIWETHER	GA	044	HANCOCK	TN	047	LESLIE	KY
040	MORGAN	GA	044	JEFFERSON	TN	047	LETCHER	KY
040	MURRAY	GA	044	KNOX	TN	047	LINCOLN	KY
040	NEWTON	GA	044	LOUDON	TN	047	MADISON	KY
040	OCONEE	GA	044	MORGAN	TN	047	MAGOFFIN	KY
040	OGLETHORPE	GA	044	ROANE	TN	047	MARTIN	KY
040	PAULDING	GA	044	SCOTT	TN	047	MCCREARY	KY
040	PICKENS	GA	044	SEVIER	TN	047	MCDOWELL	WV
040	PIKE	GA	044	UNION	TN	047	MENIFEE	KY
040	POLK	GA	045	CARTER	TN	047	MERCER	KY
040	RABUN	GA	045	GREENE	TN	047	MERCER	WV

BEA	COUNTY	ST	BEA	COUNTY	ST	BEA	COUNTY	ST
047	MINGO	WV	049	CLINTON	OH	053	DODDRIDGE	WV
047	MONTGOMERY	KY	049	DEARBORN	IN	053	FAYETTE	PA
047	MORGAN	KY	049	FRANKLIN	IN	053	GREENE	PA
047	NICHOLAS	KY	049	GALLATIN	KY	053	HARRISON	WV
047	OWEN	KY	049	GRANT	KY	053	INDIANA	PA
047	OWSLEY	KY	049	HAMILTON	OH	053	LAWRENCE	PA
047	PERRY	KY	049	HIGHLAND	OH	053	LEWIS	WV
047	PIKE	KY	049	KENTON	KY	053	MARION	WV
047	POWELL	KY	049	LEWIS	KY	053	MONONGALIA	WV
047	PULASKI	KY	049	MASON	KY	053	PRESTON	WV
047	ROBERTSON	KY	049	OHIO	IN	053	TAYLOR	WV
047	ROCKCASTLE	KY	049	PENDLETON	KY	053	UPSHUR	WV
047	ROWAN	KY	049	RIPLEY	IN	053	WASHINGTON	PA
047	RUSSELL	KY	049	SWITZERLAND	IN	053	WESTMORELAND	PA
047	RUSSELL	VA	049	WARREN	OH	054	CLARION	PA
047	SCOTT	KY	050	CHAMPAIGN	OH	054	CRAWFORD	PA
047	TAYLOR	KY	050	CLARK	OH	054	ERIE	PA
047	TAZEWELL	VA	050	DARKE	OH	054	FOREST	PA
047	WAYNE	KY	050	GREENE	OH	054	VENANGO	PA
047	WHITLEY	KY	050	MIAMI	OH	054	WARREN	PA
047	WISE	VA	050	MONTGOMERY	OH	055	ASHLAND	OH
047	WOLFE	KY	050	PREBLE	OH	055	ASHTABULA	OH
047	WOODFORD	KY	050	SHELBY	OH	055	CARROLL	OH
048	BOONE	WV	051	ATHENS	OH	055	COLUMBIANA	OH
048	BOYD	KY	051	COSHOCTON	OH	055	CRAWFORD	OH
048	BRAXTON	WV	051	DELAWARE	OH	055	CUYAHOGA	OH
048	CABELL	WV	051	FAIRFIELD	OH	055	ERIE	OH
048	CALHOUN	WV	051	FAYETTE	OH	055	GEAUGA	OH
048	CARTER	KY	051	FRANKLIN	OH	055	HARRISON	OH
048	CLAY	WV	051	GUERNSEY	OH	055	HOLMES	OH
048	ELLIOTT	KY	051	HOCKING	OH	055	HURON	OH
048	FAYETTE	WV	051	JACKSON	OH	055	LAKE	OH
048	GALLIA	OH	051	KNOX	OH	055	LORAIN	OH
048	GILMER	WV	051	LICKING	OH	055	MAHONING	OH
048	GREENUP	KY	051	LOGAN	OH	055	MEDINA	OH
048	JACKSON	WV	051	MADISON	OH	055	MERCER	PA
048	KANAWHA	WV	051	MARION	OH	055	PORTAGE	OH
048	LAWRENCE	OH	051	MORGAN	OH	055	RICHLAND	OH
048	LINCOLN	WV	051	MORROW	OH	055	STARK	OH
048	LOGAN	WV	051	MUSKINGUM	OH	055	SUMMIT	OH
048	MASON	WV	051	NOBLE	OH	055	TRUMBULL	OH
048	MEIGS	OH	051	PERRY	OH	055	TUSCARAWAS	OH
048	NICHOLAS	WV	051	PICKAWAY	OH	055	WAYNE	OH
048	PLEASANTS	WV	051	PIKE	OH	056	ALLEN	OH
048	PUTNAM	WV	051	ROSS	OH	056	AUGLAIZE	OH
048	RALEIGH	WV	051	SCIOTO	OH	056	DEFIANCE	OH
048	RITCHIE	WV	051	UNION	OH	056	FULTON	OH
048	ROANE	WV	051	VINTON	OH	056	HANCOCK	OH
048	SUMMERS	WV	052	BELMONT	OH	056	HARDIN	OH
048	WASHINGTON	OH	052	BROOKE	WV	056	HENRY	OH
048	WAYNE	WV	052	HANCOCK	WV	056	LUCAS	OH
048	WEBSTER	WV	052	JEFFERSON	OH	056	MERCER	OH
048	WIRT	WV	052	MARSHALL	WV	056	OTTAWA	OH
048	WOOD	WV	052	MONROE	OH	056	PAULDING	OH
048	WYOMING	WV	052	OHIO	WV	056	PUTNAM	OH
049	ADAMS	OH	052	TYLER	WV	056	SANDUSKY	OH
049	BOONE	KY	052	WETZEL	WV	056	SENECA	OH
049	BRACKEN	KY	053	ALLEGHENY	PA	056	VAN WERT	OH
049	BROWN	OH	053	ARMSTRONG	PA	056	WILLIAMS	OH
049	BUTLER	OH	053	BARBOUR	WV	056	WOOD	OH
049	CAMPBELL	KY	053	BEAVER	PA	056	WYANDOT	OH
049	CLERMONT	OH	053	BUTLER	PA	057	ALCONA	MI

BEA	COUNTY	ST	BEA	COUNTY	ST	BEA	COUNTY	ST
057	ARENAC	MI	059	SHAWANO	WI	064	LIVINGSTON	IL
057	BAY	MI	060	CALUMET	WI	064	MCHENRY	IL
057	CLARE	MI	060	OUTAGAMIE	WI	064	MCLEAN	IL
057	CLINTON	MI	060	WAUPACA	WI	064	NEWTON	IN
057	EATON	MI	060	WAUSHARA	WI	064	OGLE	IL
057	GENESEE	MI	060	WINNEBAGO	WI	064	PORTER	IN
057	GLADWIN	MI	061	ANTRIM	MI	064	PUTNAM	IL
057	GRATIOT	MI	061	BENZIE	MI	064	ROCK	WI
057	HILLSDALE	MI	061	GRAND TRAVERS	MI	064	STEPHENSON	IL
057	HURON	MI	061	KALKASKA	MI	064	WILL	IL
057	INGHAM	MI	061	LAKE	MI	064	WINNEBAGO	IL
057	IOSCO	MI	061	LEELANAU	MI	065	BERRIEN	MI
057	ISABELLA	MI	061	MANISTEE	MI	065	CASS	MI
057	JACKSON	MI	061	MASON	MI	065	ELKHART	IN
057	LAPEER	MI	061	MISSAUKEE	MI	065	FULTON	IN
057	LENAWEE	MI	061	OSCEOLA	MI	065	KOSCIUSKO	IN
057	LIVINGSTON	MI	061	WEXFORD	MI	065	LAGRANGE	IN
057	MACOMB	MI	062	ALLEGAN	MI	065	MARSHALL	IN
057	MIDLAND	MI	062	BARRY	MI	065	PULASKI	IN
057	MONROE	MI	062	BRANCH	MI	065	SAINT JOSEPH	MI
057	OAKLAND	MI	062	CALHOUN	MI	065	ST JOSEPH	IN
057	OGEMAW	MI	062	IONIA	MI	065	STARKE	IN
057	SAGINAW	MI	062	KALAMAZOO	MI	066	ADAMS	IN
057	SAINT CLAIR	MI	062	KENT	MI	066	ALLEN	IN
057	SANILAC	MI	062	MECOSTA	MI	066	BLACKFORD	IN
057	SHIAWASSEE	MI	062	MONTCALM	MI	066	DE KALB	IN
057	TUSCOLA	MI	062	MUSKEGON	MI	066	GRANT	IN
057	WASHTENAW	MI	062	NEWAYGO	MI	066	HUNTINGTON	IN
057	WAYNE	MI	062	OCEANA	MI	066	JAY	IN
058	ALPENA	MI	062	OTTAWA	MI	066	NOBLE	IN
058	CHARLEVOIX	MI	062	VAN BUREN	MI	066	STEBEN	IN
058	CHEBOYGAN	MI	063	DODGE	WI	066	WABASH	IN
058	CHIPPEWA	MI	063	FOND DU LAC	WI	066	WELLS	IN
058	CRAWFORD	MI	063	GREEN LAKE	WI	066	WHITLEY	IN
058	EMMET	MI	063	JEFFERSON	WI	067	BARTHOLOMEW	IN
058	LUCE	MI	063	MANITOWOC	WI	067	BENTON	IN
058	MACKINAC	MI	063	MILWAUKEE	WI	067	BOONE	IN
058	MONTMORENCY	MI	063	OZAUKEE	WI	067	BROWN	IN
058	OSCODA	MI	063	RACINE	WI	067	CARROLL	IN
058	OTSEGO	MI	063	SHEBOYGAN	WI	067	CASS	IN
058	PRESQUE ISLE	MI	063	WALWORTH	WI	067	CLARK	IL
058	ROSCOMMON	MI	063	WASHINGTON	WI	067	CLAY	IN
059	ALGER	MI	063	WAUKESHA	WI	067	CLINTON	IN
059	BARAGA	MI	064	BOONE	IL	067	DECATUR	IN
059	BROWN	WI	064	BUREAU	IL	067	DELAWARE	IN
059	DELTA	MI	064	CARROLL	IL	067	FAYETTE	IN
059	DICKINSON	MI	064	COOK	IL	067	FOUNTAIN	IN
059	DOOR	WI	064	DE KALB	IL	067	GREENE	IN
059	FLORENCE	WI	064	DE WITT	IL	067	HAMILTON	IN
059	GOGEBIC	MI	064	DU PAGE	IL	067	HANCOCK	IN
059	HOUGHTON	MI	064	GRUNDY	IL	067	HENDRICKS	IN
059	IRON	MI	064	IROQUOIS	IL	067	HENRY	IN
059	IRON	WI	064	JASPER	IN	067	HOWARD	IN
059	KEWAUNEE	WI	064	KANE	IL	067	JACKSON	IN
059	KEWEENAW	MI	064	KANKAKEE	IL	067	JENNINGS	IN
059	MARINETTE	WI	064	KENDALL	IL	067	JOHNSON	IN
059	MARQUETTE	MI	064	KENOSHA	WI	067	LAWRENCE	IN
059	MENOMINEE	MI	064	LA PORTE	IN	067	MADISON	IN
059	MENOMINEE	WI	064	LA SALLE	IL	067	MARION	IN
059	OCONTO	WI	064	LAKE	IL	067	MIAMI	IN
059	ONTONAGON	MI	064	LAKE	IN	067	MONROE	IN
059	SCHOOLCRAFT	MI	064	LEE	IL	067	MONTGOMERY	IN

BEA	COUNTY	ST	BEA	COUNTY	ST	BEA	COUNTY	ST
067	MORGAN	IN	070	CARROLL	KY	071	SMITH	TN
067	ORANGE	IN	070	CLARK	IN	071	STEWART	TN
067	OWEN	IN	070	CRAWFORD	IN	071	SUMNER	TN
067	PARKE	IN	070	FLOYD	IN	071	TODD	KY
067	PUTNAM	IN	070	GRAYSON	KY	071	TRIGG	KY
067	RANDOLPH	IN	070	HARDIN	KY	071	TROUSDALE	TN
067	RUSH	IN	070	HARRISON	IN	071	VAN BUREN	TN
067	SHELBY	IN	070	HENRY	KY	071	WARREN	KY
067	SULLIVAN	IN	070	JEFFERSON	IN	071	WARREN	TN
067	TIPPECANOE	IN	070	JEFFERSON	KY	071	WAYNE	TN
067	TIPTON	IN	070	LARUE	KY	071	WHITE	TN
067	UNION	IN	070	MARION	KY	071	WILLIAMSON	TN
067	VERMILLION	IN	070	MEADE	KY	071	WILSON	TN
067	VIGO	IN	070	NELSON	KY	072	BALLARD	KY
067	WARREN	IN	070	OLDHAM	KY	072	CALDWELL	KY
067	WAYNE	IN	070	SCOTT	IN	072	CALLOWAY	KY
067	WHITE	IN	070	SHELBY	KY	072	CARLISLE	KY
068	CHAMPAIGN	IL	070	SPENCER	KY	072	GRAVES	KY
068	CLAY	IL	070	TRIMBLE	KY	072	LIVINGSTON	KY
068	COLES	IL	070	WASHINGTON	IN	072	LYON	KY
068	CUMBERLAND	IL	070	WASHINGTON	KY	072	MARSHALL	KY
068	DOUGLAS	IL	071	ALLEN	KY	072	MASSAC	IL
068	EDGAR	IL	071	BARREN	KY	072	MCCRACKEN	KY
068	EFFINGHAM	IL	071	BEDFORD	TN	073	BENTON	MS
068	FAYETTE	IL	071	BUTLER	KY	073	BENTON	TN
068	FORD	IL	071	CANNON	TN	073	CARROLL	TN
068	JASPER	IL	071	CHEATHAM	TN	073	CHESTER	TN
068	MACON	IL	071	CHRISTIAN	KY	073	CRITTENDEN	AR
068	MOULTRIE	IL	071	CLAY	TN	073	CROCKETT	TN
068	PIATT	IL	071	COFFEE	TN	073	CROSS	AR
068	SHELBY	IL	071	CUMBERLAND	KY	073	DE SOTO	MS
068	VERMILION	IL	071	CUMBERLAND	TN	073	DECATUR	TN
069	CRAWFORD	IL	071	DAVIDSON	TN	073	DYER	TN
069	CRITTENDEN	KY	071	DEKALB	TN	073	FAYETTE	TN
069	DAVISS	IN	071	DICKSON	TN	073	FULTON	KY
069	DAVISS	KY	071	EDMONSON	KY	073	GIBSON	TN
069	DUBOIS	IN	071	FENTRESS	TN	073	HARDEMAN	TN
069	EDWARDS	IL	071	FRANKLIN	TN	073	HAYWOOD	TN
069	GIBSON	IN	071	GILES	TN	073	HENDERSON	TN
069	HANCOCK	KY	071	GRUNDY	TN	073	HENRY	TN
069	HENDERSON	KY	071	HART	KY	073	HICKMAN	KY
069	HOPKINS	KY	071	HICKMAN	TN	073	LAFAYETTE	MS
069	KNOX	IN	071	HOUSTON	TN	073	LAKE	TN
069	LAWRENCE	IL	071	HUMPHREYS	TN	073	LAUDERDALE	TN
069	MARTIN	IN	071	JACKSON	TN	073	LEE	AR
069	MCLEAN	KY	071	LAWRENCE	TN	073	MADISON	TN
069	MUHLENBERG	KY	071	LEWIS	TN	073	MARSHALL	MS
069	OHIO	KY	071	LOGAN	KY	073	OBION	TN
069	PERRY	IN	071	MACON	TN	073	PANOLA	MS
069	PIKE	IN	071	MARSHALL	TN	073	PHILLIPS	AR
069	POSEY	IN	071	MAURY	TN	073	QUITMAN	MS
069	RICHLAND	IL	071	METCALFE	KY	073	SHELBY	TN
069	SPENCER	IN	071	MONROE	KY	073	ST FRANCIS	AR
069	UNION	KY	071	MONTGOMERY	TN	073	TATE	MS
069	VANDEBURGH	IN	071	MOORE	TN	073	TIPTON	TN
069	WABASH	IL	071	OVERTON	TN	073	TUNICA	MS
069	WARRICK	IN	071	PERRY	TN	073	WEAKLEY	TN
069	WAYNE	IL	071	PICKETT	TN	073	YALOBUSHA	MS
069	WEBSTER	KY	071	PUTNAM	TN	074	COLBERT	AL
069	WHITE	IL	071	ROBERTSON	TN	074	DE KALB	AL
070	BRECKINRIDGE	KY	071	RUTHERFORD	TN	074	ETOWAH	AL
070	BULLITT	KY	071	SIMPSON	KY	074	FRANKLIN	AL

BEA	COUNTY	ST	BEA	COUNTY	ST	BEA	COUNTY	ST
074	JACKSON	AL	077	KEMPER	MS	082	HANCOCK	MS
074	LAUDERDALE	AL	077	LAMAR	MS	082	HARRISON	MS
074	LAWRENCE	AL	077	LAUDERDALE	MS	082	JACKSON	MS
074	LIMESTONE	AL	077	LAWRENCE	MS	082	STONE	MS
074	LINCOLN	TN	077	LEAKE	MS	083	JEFFERSON	LA
074	MADISON	AL	077	LINCOLN	MS	083	LAFOURCHE	LA
074	MARSHALL	AL	077	MADISON	LA	083	ORLEANS	LA
074	MORGAN	AL	077	MADISON	MS	083	PEARL RIVER	MS
075	ALCORN	MS	077	MARENGO	AL	083	PLAQUEMINES	LA
075	CALHOUN	MS	077	MARION	MS	083	ST BERNARD	LA
075	CHICKASAW	MS	077	NESHOPA	MS	083	ST CHARLES	LA
075	CHOCTAW	MS	077	NEWTON	MS	083	ST JAMES	LA
075	CLAY	MS	077	PERRY	MS	083	ST JOHN	LA
075	GRENADA	MS	077	PIKE	MS	083	ST TAMMANY	LA
075	HARDIN	TN	077	RANKIN	MS	083	TANGIPAHOA	LA
075	ITAWAMBA	MS	077	SCOTT	MS	083	TERREBONNE	LA
075	LAMAR	AL	077	SIMPSON	MS	083	WASHINGTON	LA
075	LEE	MS	077	SMITH	MS	084	ASCENSION	LA
075	LOWNDES	MS	077	SUMTER	AL	084	ASSUMPTION	LA
075	MCNAIRY	TN	077	TENSAS	LA	084	E BATON ROUGE	LA
075	MONROE	MS	077	WALTHALL	MS	084	EAST FELICIAN	LA
075	MONTGOMERY	MS	077	WARREN	MS	084	IBERVILLE	LA
075	NOXUBEE	MS	077	WAYNE	MS	084	LIVINGSTON	LA
075	OKTIBBEHA	MS	077	YAZOO	MS	084	POINTE COUPEE	LA
075	PICKENS	AL	078	BIBB	AL	084	ST HELENA	LA
075	PONTOTOC	MS	078	BLOUNT	AL	084	W BATON ROUGE	LA
075	PRENTISS	MS	078	CALHOUN	AL	084	WEST FELICIAN	LA
075	TIPPAH	MS	078	CHILTON	AL	084	WILKINSON	MS
075	TISHOMINGO	MS	078	CULLMAN	AL	085	ACADIA	LA
075	UNION	MS	078	FAYETTE	AL	085	EVANGELINE	LA
075	WEBSTER	MS	078	HALE	AL	085	IBERIA	LA
075	WINSTON	MS	078	JEFFERSON	AL	085	LAFAYETTE	LA
076	BOLIVAR	MS	078	MARION	AL	085	ST LANDRY	LA
076	CARROLL	MS	078	SHELBY	AL	085	ST MARTIN	LA
076	COAHOMA	MS	078	ST CLAIR	AL	085	ST MARY	LA
076	HUMPHREYS	MS	078	TALLADEGA	AL	085	VERMILION	LA
076	ISSAQUENA	MS	078	TUSCALOOSA	AL	086	ALLEN	LA
076	LEFLORE	MS	078	WALKER	AL	086	AVOYELLES	LA
076	SHARKEY	MS	078	WINSTON	AL	086	BEAUREGARD	LA
076	SUNFLOWER	MS	079	AUTAUGA	AL	086	CALCASIEU	LA
076	TALLAHATCHIE	MS	079	BULLOCK	AL	086	CAMERON	LA
076	WASHINGTON	MS	079	BUTLER	AL	086	GRANT	LA
077	ADAMS	MS	079	CRENSHAW	AL	086	JEFF DAVIS	LA
077	AMITE	MS	079	DALLAS	AL	086	LA SALLE	LA
077	ATTALA	MS	079	ELMORE	AL	086	RAPIDES	LA
077	CATAHOULA	LA	079	LOWNDES	AL	086	VERNON	LA
077	CHOCTAW	AL	079	MONTGOMERY	AL	087	HARDIN	TX
077	CLAIBORNE	MS	079	PERRY	AL	087	JASPER	TX
077	CLARKE	MS	079	PIKE	AL	087	JEFFERSON	TX
077	CONCORDIA	LA	080	BALDWIN	AL	087	NEWTON	TX
077	COPIAH	MS	080	CLARKE	AL	087	ORANGE	TX
077	COVINGTON	MS	080	CONECUH	AL	087	TYLER	TX
077	FORREST	MS	080	ESCAMBIA	AL	088	BIENVILLE	LA
077	FRANKLIN	MS	080	MOBILE	AL	088	BOSSIER	LA
077	GREENE	AL	080	MONROE	AL	088	CADDO	LA
077	GREENE	MS	080	WASHINGTON	AL	088	CLAIBORNE	LA
077	HINDS	MS	080	WILCOX	AL	088	COLUMBIA	AR
077	HOLMES	MS	081	ESCAMBIA	FL	088	DE SOTO	LA
077	JASPER	MS	081	OKALOOSA	FL	088	LAFAYETTE	AR
077	JEFFERSON	MS	081	SANTA ROSA	FL	088	NATCHITOCHE	LA
077	JEFFERSON DAV	MS	081	WALTON	FL	088	RED RIVER	LA
077	JONES	MS	082	GEORGE	MS	088	SABINE	LA

BEA	COUNTY	ST	BEA	COUNTY	ST	BEA	COUNTY	ST
088	WEBSTER	LA	091	FRANKLIN	AR	096	CLINTON	IL
088	WINN	LA	091	HASKELL	OK	096	CRAWFORD	MO
089	CALDWELL	LA	091	LATIMER	OK	096	FRANKLIN	IL
089	EAST CARROLL	LA	091	LE FLORE	OK	096	FRANKLIN	MO
089	FRANKLIN	LA	091	LOGAN	AR	096	GALLATIN	IL
089	JACKSON	LA	091	SCOTT	AR	096	GASCONADE	MO
089	LINCOLN	LA	091	SEBASTIAN	AR	096	HAMILTON	IL
089	MOREHOUSE	LA	091	SEQUOYAH	OK	096	HARDIN	IL
089	OUACHITA	LA	092	ADAIR	OK	096	IRON	MO
089	RICHLAND	LA	092	BENTON	AR	096	JACKSON	IL
089	UNION	LA	092	DELAWARE	OK	096	JEFFERSON	IL
089	WEST CARROLL	LA	092	MADISON	AR	096	JEFFERSON	MO
090	ARKANSAS	AR	092	MCDONALD	MO	096	JERSEY	IL
090	ASHLEY	AR	092	WASHINGTON	AR	096	JOHNSON	IL
090	BAXTER	AR	093	BARTON	MO	096	LINCOLN	MO
090	BOONE	AR	093	CHEROKEE	KS	096	MACOUPIN	IL
090	BRADLEY	AR	093	CRAWFORD	KS	096	MADISON	IL
090	CALHOUN	AR	093	JASPER	MO	096	MADISON	MO
090	CARROLL	AR	093	NEWTON	MO	096	MARION	IL
090	CHICOT	AR	093	OTTAWA	OK	096	MISSISSIPPI	MO
090	CLARK	AR	094	BARRY	MO	096	MONROE	IL
090	CLEBURNE	AR	094	CAMDEN	MO	096	MONTGOMERY	MO
090	CLEVELAND	AR	094	CHRISTIAN	MO	096	NEW MADRID	MO
090	CONWAY	AR	094	DADE	MO	096	PERRY	IL
090	DALLAS	AR	094	DALLAS	MO	096	PERRY	MO
090	DESHA	AR	094	DENT	MO	096	PIKE	MO
090	DREW	AR	094	DOUGLAS	MO	096	POPE	IL
090	FAULKNER	AR	094	GREENE	MO	096	PULASKI	IL
090	FULTON	AR	094	HICKORY	MO	096	RANDOLPH	IL
090	GARLAND	AR	094	HOWELL	MO	096	REYNOLDS	MO
090	GRANT	AR	094	LACLEDE	MO	096	RIPLEY	MO
090	HEMPSTEAD	AR	094	LAWRENCE	MO	096	SALINE	IL
090	HOT SPRING	AR	094	MARIES	MO	096	SCOTT	MO
090	HOWARD	AR	094	MILLER	MO	096	ST CHARLES	MO
090	INDEPENDENCE	AR	094	MORGAN	MO	096	ST CLAIR	IL
090	IZARD	AR	094	OREGON	MO	096	ST FRANCOIS	MO
090	JACKSON	AR	094	OZARK	MO	096	ST LOUIS	MO
090	JEFFERSON	AR	094	PHELPS	MO	096	ST LOUIS CITY	MO
090	JOHNSON	AR	094	POLK	MO	096	STE GENEVIEVE	MO
090	LINCOLN	AR	094	PULASKI	MO	096	STODDARD	MO
090	LONOKE	AR	094	SHANNON	MO	096	UNION	IL
090	MARION	AR	094	STONE	MO	096	WARREN	MO
090	MONROE	AR	094	TANEY	MO	096	WASHINGTON	IL
090	MONTGOMERY	AR	094	TEXAS	MO	096	WASHINGTON	MO
090	NEVADA	AR	094	WEBSTER	MO	096	WAYNE	MO
090	NEWTON	AR	094	WRIGHT	MO	096	WILLIAMSON	IL
090	OUACHITA	AR	095	CLAY	AR	097	ADAMS	IL
090	PERRY	AR	095	CRAIGHEAD	AR	097	BROWN	IL
090	PIKE	AR	095	DUNKLIN	MO	097	CASS	IL
090	POPE	AR	095	GREENE	AR	097	CHRISTIAN	IL
090	PRAIRIE	AR	095	LAWRENCE	AR	097	GREENE	IL
090	PULASKI	AR	095	MISSISSIPPI	AR	097	LEWIS	MO
090	SALINE	AR	095	PEMISCOT	MO	097	LOGAN	IL
090	SEARCY	AR	095	POINSETT	AR	097	MARION	MO
090	SHARP	AR	095	RANDOLPH	AR	097	MENARD	IL
090	STONE	AR	096	ALEXANDER	IL	097	MONTGOMERY	IL
090	UNION	AR	096	BOLLINGER	MO	097	MORGAN	IL
090	VAN BUREN	AR	096	BOND	IL	097	PIKE	IL
090	WHITE	AR	096	BUTLER	MO	097	RALLS	MO
090	WOODRUFF	AR	096	CALHOUN	IL	097	SANGAMON	IL
090	YELL	AR	096	CAPE GIRARDEA	MO	097	SCHUYLER	IL
091	CRAWFORD	AR	096	CARTER	MO	097	SCOTT	IL

BEA	COUNTY	ST	BEA	COUNTY	ST	BEA	COUNTY	ST
098	AUDRAIN	MO	100	BLACK HAWK	IA	100	WRIGHT	IA
098	BOONE	MO	100	BOONE	IA	101	FULTON	IL
098	CALLAWAY	MO	100	BREMER	IA	101	KNOX	IL
098	COLE	MO	100	BUCHANAN	IA	101	MARSHALL	IL
098	COOPER	MO	100	BUENA VISTA	IA	101	MASON	IL
098	HOWARD	MO	100	BUTLER	IA	101	MCDONOUGH	IL
098	MONITEAU	MO	100	CALHOUN	IA	101	PEORIA	IL
098	MONROE	MO	100	CARROLL	IA	101	STARK	IL
098	OSAGE	MO	100	CERRO GORDO	IA	101	TAZEWELL	IL
098	RANDOLPH	MO	100	CHICKASAW	IA	101	WARREN	IL
098	SHELBY	MO	100	CLARK	MO	101	WOODFORD	IL
099	ADAIR	MO	100	CLARKE	IA	102	CEDAR	IA
099	ANDERSON	KS	100	CLAY	IA	102	CLINTON	IA
099	ANDREW	MO	100	CRAWFORD	IA	102	HENRY	IL
099	ATCHISON	KS	100	DALLAS	IA	102	LOUISA	IA
099	BATES	MO	100	DAVIS	IA	102	MERCER	IL
099	BENTON	MO	100	DECATUR	IA	102	MUSCATINE	IA
099	BOURBON	KS	100	DES MOINES	IA	102	ROCK ISLAND	IL
099	BUCHANAN	MO	100	DICKINSON	IA	102	SCOTT	IA
099	CALDWELL	MO	100	EMMET	IA	102	WHITESIDE	IL
099	CARROLL	MO	100	FAYETTE	IA	103	BENTON	IA
099	CASS	MO	100	FLOYD	IA	103	IOWA	IA
099	CEDAR	MO	100	FRANKLIN	IA	103	JOHNSON	IA
099	CHARITON	MO	100	GREENE	IA	103	JONES	IA
099	CLAY	MO	100	GRUNDY	IA	103	LINN	IA
099	CLINTON	MO	100	GUTHRIE	IA	103	WASHINGTON	IA
099	DAVISS	MO	100	HAMILTON	IA	104	ADAMS	WI
099	DE KALB	MO	100	HANCOCK	IA	104	ALLAMAKEE	IA
099	DONIPHAN	KS	100	HANCOCK	IL	104	CLAYTON	IA
099	DOUGLAS	KS	100	HARDIN	IA	104	COLUMBIA	WI
099	FRANKLIN	KS	100	HENDERSON	IL	104	CRAWFORD	WI
099	GENTRY	MO	100	HENRY	IA	104	DANE	WI
099	GRUNDY	MO	100	HUMBOLDT	IA	104	DELAWARE	IA
099	HARRISON	MO	100	JASPER	IA	104	DUBUQUE	IA
099	HENRY	MO	100	JEFFERSON	IA	104	GRANT	WI
099	HOLT	MO	100	KEOKUK	IA	104	GREEN	WI
099	JACKSON	MO	100	KOSSUTH	IA	104	IOWA	WI
099	JOHNSON	KS	100	LEE	IA	104	JACKSON	IA
099	JOHNSON	MO	100	LUCAS	IA	104	JO DAVIESS	IL
099	KNOX	MO	100	MADISON	IA	104	JUNEAU	WI
099	LAFAYETTE	MO	100	MAHASKA	IA	104	LAFAYETTE	WI
099	LEAVENWORTH	KS	100	MARION	IA	104	MARQUETTE	WI
099	LINN	KS	100	MARSHALL	IA	104	RICHLAND	WI
099	LINN	MO	100	MITCHELL	IA	104	SAUK	WI
099	LIVINGSTON	MO	100	MONROE	IA	105	HOUSTON	MN
099	MACON	MO	100	PALO ALTO	IA	105	JACKSON	WI
099	MERCER	MO	100	POCAHONTAS	IA	105	LA CROSSE	WI
099	MIAMI	KS	100	POLK	IA	105	MONROE	WI
099	NODAWAY	MO	100	POWESHIEK	IA	105	TREMPEALEAU	WI
099	PETTIS	MO	100	RINGGOLD	IA	105	VERNON	WI
099	PLATTE	MO	100	SAC	IA	106	BUFFALO	WI
099	PUTNAM	MO	100	SCOTLAND	MO	106	DODGE	MN
099	RAY	MO	100	STORY	IA	106	FILLMORE	MN
099	SALINE	MO	100	TAMA	IA	106	HOWARD	IA
099	SCHUYLER	MO	100	UNION	IA	106	MOWER	MN
099	ST CLAIR	MO	100	VAN BUREN	IA	106	OLMSTED	MN
099	SULLIVAN	MO	100	WAPELLO	IA	106	WABASHA	MN
099	VERNON	MO	100	WARREN	IA	106	WINNESHIEK	IA
099	WORTH	MO	100	WAYNE	IA	106	WINONA	MN
099	WYANDOTTE	KS	100	WEBSTER	IA	107	AITKIN	MN
100	ADAIR	IA	100	WINNEBAGO	IA	107	ANOKA	MN
100	APPANOOSE	IA	100	WORTH	IA	107	BARRON	WI

BEA	COUNTY	ST	BEA	COUNTY	ST	BEA	COUNTY	ST
107	BELTRAMI	MN	107	WASHBURN	WI	112	KIDDER	ND
107	BENTON	MN	107	WASHINGTON	MN	112	LOGAN	ND
107	BLUE EARTH	MN	107	WATONWAN	MN	112	MCINTOSH	ND
107	BROWN	MN	107	WRIGHT	MN	112	MCLEAN	ND
107	BURNETT	WI	107	YELLOW MED	MN	112	MERCER	ND
107	CARVER	MN	108	ASHLAND	WI	112	MORTON	ND
107	CASS	MN	108	BAYFIELD	WI	112	OLIVER	ND
107	CHIPPEWA	MN	108	CLARK	WI	112	SIOUX	ND
107	CHIPPEWA	WI	108	FOREST	WI	112	SLOPE	ND
107	CHISAGO	MN	108	LANGLADE	WI	112	STARK	ND
107	CLEARWATER	MN	108	LINCOLN	WI	112	WIBAUX	MT
107	COTTONWOOD	MN	108	MARATHON	WI	113	BARNES	ND
107	CROW WING	MN	108	ONEIDA	WI	113	BECKER	MN
107	DAKOTA	MN	108	PORTAGE	WI	113	CASS	ND
107	DOUGLAS	MN	108	PRICE	WI	113	CLAY	MN
107	DUNN	WI	108	TAYLOR	WI	113	DICKEY	ND
107	EAU CLAIRE	WI	108	VILAS	WI	113	FOSTER	ND
107	FARIBAULT	MN	108	WOOD	WI	113	GRIGGS	ND
107	FREEBORN	MN	109	CARLTON	MN	113	LA MOURE	ND
107	GOODHUE	MN	109	COOK	MN	113	MAHNOMEN	MN
107	GRANT	MN	109	DOUGLAS	WI	113	NORMAN	MN
107	HENNEPIN	MN	109	ITASCA	MN	113	OTTER TAIL	MN
107	HUBBARD	MN	109	KOOCHICHING	MN	113	PIERCE	ND
107	ISANTI	MN	109	LAKE	MN	113	RANSOM	ND
107	JACKSON	MN	109	ST LOUIS	MN	113	RICHLAND	ND
107	KANABEC	MN	110	BENSON	ND	113	SARGENT	ND
107	KANDIYOHI	MN	110	CAVALIER	ND	113	SHERIDAN	ND
107	LAC QUI PARLE	MN	110	EDDY	ND	113	STUTSMAN	ND
107	LE SUEUR	MN	110	GRAND FORKS	ND	113	WELLS	ND
107	LINCOLN	MN	110	KITTSO	MN	113	WILKIN	MN
107	LYON	MN	110	LAKE IN WOODS	MN	114	BROWN	SD
107	MARTIN	MN	110	MARSHALL	MN	114	CAMPBELL	SD
107	MCLEOD	MN	110	NELSON	ND	114	DAY	SD
107	MEEKER	MN	110	PEMBINA	ND	114	DEWEY	SD
107	MILLE LACS	MN	110	PENNINGTON	MN	114	EDMUNDS	SD
107	MORRISON	MN	110	POLK	MN	114	FAULK	SD
107	MURRAY	MN	110	RAMSEY	ND	114	MARSHALL	SD
107	NICOLLET	MN	110	RED LAKE	MN	114	MCPHERSON	SD
107	NOBLES	MN	110	ROLETTE	ND	114	POTTER	SD
107	OSCEOLA	IA	110	ROSEAU	MN	114	SPINK	SD
107	PEPIN	WI	110	STEELE	ND	114	WALWORTH	SD
107	PIERCE	WI	110	TOWNER	ND	114	ZIEBACH	SD
107	PINE	MN	110	TRAILL	ND	115	ADAMS	ND
107	POLK	WI	110	WALSH	ND	115	BENNETT	SD
107	POPE	MN	111	BOTTINEAU	ND	115	BUTTE	SD
107	RAMSEY	MN	111	BURKE	ND	115	CARTER	MT
107	REDWOOD	MN	111	DIVIDE	ND	115	CHERRY	NE
107	RENVILLE	MN	111	MCHENRY	ND	115	CUSTER	SD
107	RICE	MN	111	MCKENZIE	ND	115	FALL RIVER	SD
107	RUSK	WI	111	MOUNTRAIL	ND	115	GRANT	NE
107	SAWYER	WI	111	RENVILLE	ND	115	HAAKON	SD
107	SCOTT	MN	111	WARD	ND	115	HARDING	SD
107	SHERBURNE	MN	111	WILLIAMS	ND	115	JACKSON	SD
107	SIBLEY	MN	112	BILLINGS	ND	115	JONES	SD
107	ST CROIX	WI	112	BOWMAN	ND	115	LAWRENCE	SD
107	STEARNS	MN	112	BURLEIGH	ND	115	MEADE	SD
107	STEELE	MN	112	CORSON	SD	115	MELLETTTE	SD
107	STEVENS	MN	112	DUNN	ND	115	PENNINGTON	SD
107	SWIFT	MN	112	EMMONS	ND	115	PERKINS	SD
107	TODD	MN	112	GOLDEN VALLEY	ND	115	SHANNON	SD
107	WADENA	MN	112	GRANT	ND	115	SHERIDAN	NE
107	WASECA	MN	112	HETTINGER	ND	115	TODD	SD

BEA	COUNTY	ST	BEA	COUNTY	ST	BEA	COUNTY	ST
115	WASHABAUGH	SD	118	BUTLER	NE	120	NUCKOLLS	NE
116	AURORA	SD	118	CASS	IA	120	PHELPS	NE
116	BEADLE	SD	118	CASS	NE	120	RED WILLOW	NE
116	BIG STONE	MN	118	COLFAX	NE	120	ROCK	NE
116	BON HOMME	SD	118	CUMING	NE	120	SHERMAN	NE
116	BROOKINGS	SD	118	DODGE	NE	120	VALLEY	NE
116	BRULE	SD	118	DOUGLAS	NE	120	WEBSTER	NE
116	BUFFALO	SD	118	FREMONT	IA	120	WHEELER	NE
116	CEDAR	NE	118	HARRISON	IA	121	ARTHUR	NE
116	CHARLES MIX	SD	118	MADISON	NE	121	BLAINE	NE
116	CLARK	SD	118	MILLS	IA	121	CHASE	NE
116	CLAY	SD	118	MONTGOMERY	IA	121	DEUEL	NE
116	CODINGTON	SD	118	NANCE	NE	121	GARDEN	NE
116	DAVISON	SD	118	PAGE	IA	121	HOOKER	NE
116	DEUEL	SD	118	PIERCE	NE	121	KEITH	NE
116	DOUGLAS	SD	118	PLATTE	NE	121	LINCOLN	NE
116	GRANT	SD	118	POLK	NE	121	LOGAN	NE
116	GREGORY	SD	118	POTTAWATTAMIE	IA	121	MCPHERSON	NE
116	HAMLIN	SD	118	SARPY	NE	121	PERKINS	NE
116	HAND	SD	118	SAUNDERS	NE	121	SEDGWICK	CO
116	HANSON	SD	118	SHELBY	IA	121	THOMAS	NE
116	HUGHES	SD	118	STANTON	NE	122	BARBER	KS
116	HUTCHINSON	SD	118	TAYLOR	IA	122	BARTON	KS
116	HYDE	SD	118	WASHINGTON	NE	122	BEAVER	OK
116	JERAULD	SD	118	WAYNE	NE	122	BUTLER	KS
116	KINGSBURY	SD	119	FILLMORE	NE	122	CIMARRON	OK
116	KNOX	NE	119	GAGE	NE	122	CLARK	KS
116	LAKE	SD	119	JEFFERSON	NE	122	CLOUD	KS
116	LINCOLN	SD	119	JOHNSON	NE	122	COMANCHE	KS
116	LYMAN	SD	119	LANCASTER	NE	122	COWLEY	KS
116	LYON	IA	119	NEMAHA	NE	122	DECATUR	KS
116	MCCOOK	SD	119	OTOE	NE	122	EDWARDS	KS
116	MINER	SD	119	PAWNEE	NE	122	ELK	KS
116	MINNEHAHA	SD	119	RICHARDSON	NE	122	ELLIS	KS
116	MOODY	SD	119	SALINE	NE	122	ELLSWORTH	KS
116	PIPESTONE	MN	119	SEWARD	NE	122	FINNEY	KS
116	ROBERTS	SD	119	THAYER	NE	122	FORD	KS
116	ROCK	MN	119	YORK	NE	122	GRAHAM	KS
116	SANBORN	SD	120	ADAMS	NE	122	GRANT	KS
116	STANLEY	SD	120	BOYD	NE	122	GRAY	KS
116	SULLY	SD	120	BROWN	NE	122	GREELEY	KS
116	TRAVERSE	MN	120	BUFFALO	NE	122	GREENWOOD	KS
116	TRIPP	SD	120	CLAY	NE	122	HAMILTON	KS
116	TURNER	SD	120	CUSTER	NE	122	HARPER	KS
116	YANKTON	SD	120	DAWSON	NE	122	HARVEY	KS
117	CHEROKEE	IA	120	FRANKLIN	NE	122	HASKELL	KS
117	DAKOTA	NE	120	FRONTIER	NE	122	HODGEMAN	KS
117	DIXON	NE	120	FURNAS	NE	122	JEWELL	KS
117	IDA	IA	120	GARFIELD	NE	122	KEARNY	KS
117	MONONA	IA	120	GOSPER	NE	122	KINGMAN	KS
117	O BRIEN	IA	120	GREELEY	NE	122	KIOWA	KS
117	PLYMOUTH	IA	120	HALL	NE	122	LANE	KS
117	SIOUX	IA	120	HAMILTON	NE	122	LINCOLN	KS
117	THURSTON	NE	120	HARLAN	NE	122	MARION	KS
117	UNION	SD	120	HAYES	NE	122	MCPHERSON	KS
117	WOODBURY	IA	120	HITCHCOCK	NE	122	MEADE	KS
118	ADAMS	IA	120	HOLT	NE	122	MITCHELL	KS
118	ANTELOPE	NE	120	HOWARD	NE	122	MORTON	KS
118	ATCHISON	MO	120	KEARNEY	NE	122	NESS	KS
118	AUDUBON	IA	120	KEYAPAHA	NE	122	NORTON	KS
118	BOONE	NE	120	LOUP	NE	122	OSBORNE	KS
118	BURT	NE	120	MERRICK	NE	122	OTTAWA	KS

BEA	COUNTY	ST	BEA	COUNTY	ST	BEA	COUNTY	ST
122	PAWNEE	KS	124	WASHINGTON	OK	127	COMANCHE	TX
122	PHILLIPS	KS	124	WILSON	KS	127	COOKE	TX
122	PRATT	KS	124	WOODSON	KS	127	CORYELL	TX
122	RAWLINS	KS	125	ALFALFA	OK	127	DALLAS	TX
122	RENO	KS	125	ATOKA	OK	127	DELTA	TX
122	REPUBLIC	KS	125	BLAINE	OK	127	DENTON	TX
122	RICE	KS	125	CADDO	OK	127	EASTLAND	TX
122	ROOKS	KS	125	CANADIAN	OK	127	ELLIS	TX
122	RUSH	KS	125	CARTER	OK	127	ERATH	TX
122	RUSSELL	KS	125	CLEVELAND	OK	127	FALLS	TX
122	SALINE	KS	125	COAL	OK	127	FANNIN	TX
122	SCOTT	KS	125	COMANCHE	OK	127	FOARD	TX
122	SEDGWICK	KS	125	COTTON	OK	127	FRANKLIN	TX
122	SEWARD	KS	125	GARFIELD	OK	127	GRAYSON	TX
122	SMITH	KS	125	GARVIN	OK	127	GREGG	TX
122	STAFFORD	KS	125	GRADY	OK	127	HAMILTON	TX
122	STANTON	KS	125	GRANT	OK	127	HARDEMAN	TX
122	STEVENS	KS	125	HUGHES	OK	127	HARRISON	TX
122	SUMNER	KS	125	JEFFERSON	OK	127	HENDERSON	TX
122	TEXAS	OK	125	JOHNSTON	OK	127	HILL	TX
122	TREGO	KS	125	KINGFISHER	OK	127	HOOD	TX
122	WICHITA	KS	125	LINCOLN	OK	127	HOPKINS	TX
123	BROWN	KS	125	LOGAN	OK	127	HUNT	TX
123	CHASE	KS	125	LOVE	OK	127	JACK	TX
123	CLAY	KS	125	MAJOR	OK	127	JOHNSON	TX
123	COFFEY	KS	125	MARSHALL	OK	127	KAUFMAN	TX
123	DICKINSON	KS	125	MCCLAIN	OK	127	LAMAR	TX
123	GEARY	KS	125	MURRAY	OK	127	LAMPASAS	TX
123	JACKSON	KS	125	OKFUSKEE	OK	127	LITTLE RIVER	AR
123	JEFFERSON	KS	125	OKLAHOMA	OK	127	MARION	TX
123	LYON	KS	125	PONTOTOC	OK	127	MCCURTAIN	OK
123	MARSHALL	KS	125	POTTAWATOMIE	OK	127	MCLENNAN	TX
123	MORRIS	KS	125	SEMINOLE	OK	127	MILLER	AR
123	NEMAHA	KS	125	STEPHENS	OK	127	MILLS	TX
123	OSAGE	KS	125	WOODS	OK	127	MONTAGUE	TX
123	POTTAWATOMIE	KS	126	BECKHAM	OK	127	MORRIS	TX
123	RILEY	KS	126	CUSTER	OK	127	NAVARRO	TX
123	SHAWNEE	KS	126	DEWEY	OK	127	PALO PINTO	TX
123	WABAUNSEE	KS	126	ELLIS	OK	127	PANOLA	TX
123	WASHINGTON	KS	126	GREER	OK	127	PARKER	TX
124	ALLEN	KS	126	HARMON	OK	127	POLK	AR
124	CHAUTAUQUA	KS	126	HARPER	OK	127	PUSHMATAHA	OK
124	CHEROKEE	OK	126	JACKSON	OK	127	RAINS	TX
124	CRAIG	OK	126	KIOWA	OK	127	RED RIVER	TX
124	CREEK	OK	126	ROGER MILLS	OK	127	ROCKWALL	TX
124	KAY	OK	126	WASHITA	OK	127	RUSK	TX
124	LABETTE	KS	126	WOODWARD	OK	127	SAN SABA	TX
124	MAYES	OK	127	ANDERSON	TX	127	SEVIER	AR
124	MCINTOSH	OK	127	ARCHER	TX	127	SMITH	TX
124	MONTGOMERY	KS	127	BAYLOR	TX	127	SOMERVELL	TX
124	MUSKOGEE	OK	127	BELL	TX	127	STEPHENS	TX
124	NEOSHO	KS	127	BOSQUE	TX	127	TARRANT	TX
124	NOBLE	OK	127	BOWIE	TX	127	THROCKMORTON	TX
124	NOWATA	OK	127	BROWN	TX	127	TILLMAN	OK
124	OKMULGEE	OK	127	BRYAN	OK	127	TITUS	TX
124	OSAGE	OK	127	CAMP	TX	127	UPSHUR	TX
124	PAWNEE	OK	127	CASS	TX	127	VAN ZANDT	TX
124	PAYNE	OK	127	CHEROKEE	TX	127	WICHITA	TX
124	PITTSBURG	OK	127	CHOCTAW	OK	127	WILBARGER	TX
124	ROGERS	OK	127	CLAY	TX	127	WISE	TX
124	TULSA	OK	127	COLEMAN	TX	127	WOOD	TX
124	WAGONER	OK	127	COLLIN	TX	127	YOUNG	TX

BEA	COUNTY	ST	BEA	COUNTY	ST	BEA	COUNTY	ST
128	CALLAHAN	TX	131	NACOGDOCHES	TX	135	MARTIN	TX
128	FISHER	TX	131	POLK	TX	135	MIDLAND	TX
128	HASKELL	TX	131	ROBERTSON	TX	135	PECOS	TX
128	JONES	TX	131	SABINE	TX	135	PRESIDIO	TX
128	KING	TX	131	SAN AUGUSTINE	TX	135	REAGAN	TX
128	KNOX	TX	131	SAN JACINTO	TX	135	REEVES	TX
128	MITCHELL	TX	131	SHELBY	TX	135	TERRELL	TX
128	NOLAN	TX	131	TRINITY	TX	135	UPTON	TX
128	SCURRY	TX	131	VICTORIA	TX	135	WARD	TX
128	SHACKLEFORD	TX	131	WALKER	TX	135	WINKLER	TX
128	STONEWALL	TX	131	WALLER	TX	136	CHAVES	NM
128	TAYLOR	TX	131	WASHINGTON	TX	136	EDDY	NM
129	COKE	TX	131	WHARTON	TX	136	GAINES	TX
129	CONCHO	TX	132	ARANSAS	TX	136	LEA	NM
129	EDWARDS	TX	132	BEE	TX	136	YOAKUM	TX
129	IRION	TX	132	BROOKS	TX	137	BRISCOE	TX
129	KIMBLE	TX	132	DUVAL	TX	137	COCHRAN	TX
129	KINNEY	TX	132	JIM WELLS	TX	137	CROSBY	TX
129	MASON	TX	132	KENEDY	TX	137	DICKENS	TX
129	MCCULLOCH	TX	132	KLEBERG	TX	137	FLOYD	TX
129	MENARD	TX	132	LIVE OAK	TX	137	GARZA	TX
129	RUNNELS	TX	132	MC MULLEN	TX	137	HALE	TX
129	SCHLEICHER	TX	132	NUECES	TX	137	HOCKLEY	TX
129	STERLING	TX	132	REFUGIO	TX	137	KENT	TX
129	SUTTON	TX	132	SAN PATRICIO	TX	137	LAMB	TX
129	TOM GREEN	TX	133	CAMERON	TX	137	LUBBOCK	TX
129	VAL VERDE	TX	133	HIDALGO	TX	137	LYNN	TX
130	BASTROP	TX	133	STARR	TX	137	MOTLEY	TX
130	BLANCO	TX	133	WILLACY	TX	137	SWISHER	TX
130	BURNET	TX	134	ATASCOSA	TX	137	TERRY	TX
130	CALDWELL	TX	134	BANDERA	TX	138	ARMSTRONG	TX
130	HAYS	TX	134	BEXAR	TX	138	BAILEY	TX
130	LEE	TX	134	COMAL	TX	138	CARSON	TX
130	LLANO	TX	134	DIMMIT	TX	138	CASTRO	TX
130	MILAM	TX	134	FRIO	TX	138	CHILDRESS	TX
130	TRAVIS	TX	134	GILLESPIE	TX	138	COLLINGSWORTH	TX
130	WILLIAMSON	TX	134	GONZALES	TX	138	COTTLE	TX
131	ANGELINA	TX	134	GUADALUPE	TX	138	CURRY	NM
131	AUSTIN	TX	134	JIM HOGG	TX	138	DALLAM	TX
131	BRAZORIA	TX	134	KARNES	TX	138	DE BACA	NM
131	BRAZOS	TX	134	KENDALL	TX	138	DEAF SMITH	TX
131	BURLESON	TX	134	KERR	TX	138	DONLEY	TX
131	CALHOUN	TX	134	LA SALLE	TX	138	GRAY	TX
131	CHAMBERS	TX	134	MAVERICK	TX	138	HALL	TX
131	COLORADO	TX	134	MEDINA	TX	138	HANSFORD	TX
131	DE WITT	TX	134	REAL	TX	138	HARDING	NM
131	FAYETTE	TX	134	UVALDE	TX	138	HARTLEY	TX
131	FORT BEND	TX	134	WEBB	TX	138	HEMPHILL	TX
131	FREESTONE	TX	134	WILSON	TX	138	HUTCHINSON	TX
131	GALVESTON	TX	134	ZAPATA	TX	138	LIPSCOMB	TX
131	GOLIAD	TX	134	ZAVALA	TX	138	MOORE	TX
131	GRIMES	TX	135	ANDREWS	TX	138	OCHILTREE	TX
131	HARRIS	TX	135	BORDEN	TX	138	OLDHAM	TX
131	HOUSTON	TX	135	BREWSTER	TX	138	PARMER	TX
131	JACKSON	TX	135	CRANE	TX	138	POTTER	TX
131	LAVACA	TX	135	CROCKETT	TX	138	QUAY	NM
131	LEON	TX	135	DAWSON	TX	138	RANDALL	TX
131	LIBERTY	TX	135	ECTOR	TX	138	ROBERTS	TX
131	LIMESTONE	TX	135	GLASS COCK	TX	138	ROOSEVELT	NM
131	MADISON	TX	135	HOWARD	TX	138	SHERMAN	TX
131	MATAGORDA	TX	135	JEFF DAVIS	TX	138	UNION	NM
131	MONTGOMERY	TX	135	LOVING	TX	138	WHEELER	TX

BEA	COUNTY	ST	BEA	COUNTY	ST	BEA	COUNTY	ST
139	GUADALUPE	NM	141	ROUTT	CO	144	ROSEBUD	MT
139	LOS ALAMOS	NM	141	SAN MIGUEL	CO	144	SHERIDAN	MT
139	MORA	NM	141	SHERIDAN	KS	144	SHERIDAN	WY
139	RIO ARRIBA	NM	141	SHERMAN	KS	144	STILLWATER	MT
139	SAN MIGUEL	NM	141	SUMMIT	CO	144	SWEET GRASS	MT
139	SANTA FE	NM	141	TELLER	CO	144	TREASURE	MT
139	TAOS	NM	141	THOMAS	KS	144	VALLEY	MT
140	ALAMOSA	CO	141	WALLACE	KS	144	YELLOWSTONE	MT
140	BACA	CO	141	WASHINGTON	CO	144	YELLOWSTONE P	MT
140	BENT	CO	141	WELD	CO	145	BLAINE	MT
140	CHEYENNE	CO	141	YUMA	CO	145	CASCADE	MT
140	COLFAX	NM	142	BANNER	NE	145	CHOUTEAU	MT
140	CONEJOS	CO	142	BOX BUTTE	NE	145	FERGUS	MT
140	COSTILLA	CO	142	CHEYENNE	NE	145	GLACIER	MT
140	CROWLEY	CO	142	DAWES	NE	145	HILL	MT
140	HUERFANO	CO	142	GOSHEN	WY	145	JUDITH BASIN	MT
140	KIOWA	CO	142	KIMBALL	NE	145	LIBERTY	MT
140	LAS ANIMAS	CO	142	MORRILL	NE	145	MEAGHER	MT
140	MINERAL	CO	142	SCOTTS BLUFF	NE	145	PHILLIPS	MT
140	OTERO	CO	142	SIOUX	NE	145	PONDERA	MT
140	PROWERS	CO	143	ALBANY	WY	145	TETON	MT
140	PUEBLO	CO	143	BEAR LAKE	ID	145	TOOLE	MT
140	RIO GRANDE	CO	143	CAMPBELL	WY	145	WHEATLAND	MT
140	SAGUACHE	CO	143	CARBON	WY	146	BEAVERHEAD	MT
141	ADAMS	CO	143	CARIBOU	ID	146	BROADWATER	MT
141	ARAPAHOE	CO	143	CONVERSE	WY	146	DEER LODGE	MT
141	BOULDER	CO	143	CROOK	WY	146	FLATHEAD	MT
141	CHAFFEE	CO	143	DAGGETT	UT	146	GRANITE	MT
141	CHEYENNE	KS	143	FREMONT	WY	146	JEFFERSON	MT
141	CLEAR CREEK	CO	143	HOT SPRINGS	WY	146	LAKE	MT
141	CUSTER	CO	143	LARAMIE	WY	146	LEWIS & CLARK	MT
141	DELTA	CO	143	LINCOLN	WY	146	LINCOLN	MT
141	DENVER	CO	143	NATRONA	WY	146	MINERAL	MT
141	DOUGLAS	CO	143	NIOBRARA	WY	146	MISSOULA	MT
141	DUNDY	NE	143	PLATTE	WY	146	POWELL	MT
141	EAGLE	CO	143	RICH	UT	146	RAVALLI	MT
141	EL PASO	CO	143	SUBLETTE	WY	146	SANDERS	MT
141	ELBERT	CO	143	SWEETWATER	WY	146	SILVER BOW	MT
141	FREMONT	CO	143	UINTA	WY	147	ASOTIN	WA
141	GARFIELD	CO	143	WASHAKIE	WY	147	BENEWAH	ID
141	GILPIN	CO	143	WESTON	WY	147	BONNER	ID
141	GOVE	KS	144	BIG HORN	MT	147	BOUNDARY	ID
141	GRAND	CO	144	BIG HORN	WY	147	CLEARWATER	ID
141	GUNNISON	CO	144	CARBON	MT	147	FERRY	WA
141	HINSDALE	CO	144	CUSTER	MT	147	GARFIELD	WA
141	JACKSON	CO	144	DANIELS	MT	147	IDAHO	ID
141	JEFFERSON	CO	144	DAWSON	MT	147	KOOTENAI	ID
141	KIT CARSON	CO	144	FALLON	MT	147	LATAH	ID
141	LAKE	CO	144	GALLATIN	MT	147	LEWIS	ID
141	LARIMER	CO	144	GARFIELD	MT	147	LINCOLN	WA
141	LINCOLN	CO	144	GOLDEN VALLEY	MT	147	NEZ PERCE	ID
141	LOGAN	CO	144	JOHNSON	WY	147	PEND OREILLE	WA
141	LOGAN	KS	144	MADISON	MT	147	SHOSHONE	ID
141	MESA	CO	144	MCCONE	MT	147	SPOKANE	WA
141	MOFFAT	CO	144	MUSSELSHELL	MT	147	STEVENS	WA
141	MONTROSE	CO	144	PARK	MT	147	WHITMAN	WA
141	MORGAN	CO	144	PARK	WY	148	BANNOCK	ID
141	OURAY	CO	144	PETROLEUM	MT	148	BINGHAM	ID
141	PARK	CO	144	POWDER RIVER	MT	148	BONNEVILLE	ID
141	PHILLIPS	CO	144	PRAIRIE	MT	148	BUTTE	ID
141	PITKIN	CO	144	RICHLAND	MT	148	CLARK	ID
141	RIO BLANCO	CO	144	ROOSEVELT	MT	148	CUSTER	ID

BEA	COUNTY	ST	BEA	COUNTY	ST	BEA	COUNTY	ST
148	FREMONT	ID	152	UINTAH	UT	160	YUMA	AZ
148	JEFFERSON	ID	152	UTAH	UT	161	SAN DIEGO	CA
148	LEMHI	ID	152	WASATCH	UT	162	FRESNO	CA
148	MADISON	ID	152	WAYNE	UT	162	KINGS	CA
148	POWER	ID	152	WEBER	UT	162	MADERA	CA
148	TETON	ID	153	BEAVER	UT	162	TULARE	CA
148	TETON	WY	153	CLARK	NV	163	ALAMEDA	CA
149	BLAINE	ID	153	ESMERALDA	NV	163	CALAVERAS	CA
149	CAMAS	ID	153	GARFIELD	UT	163	CONTRA COSTA	CA
149	CASSIA	ID	153	IRON	UT	163	HUMBOLDT	CA
149	GOODING	ID	153	LINCOLN	NV	163	LAKE	CA
149	JEROME	ID	153	MINERAL	NV	163	MARIN	CA
149	LINCOLN	ID	153	MOHAVE	AZ	163	MARIPOSA	CA
149	MINIDOKA	ID	153	NYE	NV	163	MENDOCINO	CA
149	TWIN FALLS	ID	153	PIUTE	UT	163	MERCED	CA
150	ADA	ID	153	WASHINGTON	UT	163	MONTEREY	CA
150	ADAMS	ID	154	COCONINO	AZ	163	NAPA	CA
150	BOISE	ID	154	KANE	UT	163	SAN BENITO	CA
150	CANYON	ID	154	NAVAJO	AZ	163	SAN FRANCISCO	CA
150	ELMORE	ID	154	SAN JUAN	UT	163	SAN JOAQUIN	CA
150	GEM	ID	154	YAVAPAI	AZ	163	SAN MATEO	CA
150	HARNEY	OR	155	ARCHULETTA	CO	163	SANTA CLARA	CA
150	MALHEUR	OR	155	DOLORES	CO	163	SANTA CRUZ	CA
150	OWYHEE	ID	155	LA PLATA	CO	163	SOLANO	CA
150	PAYETTE	ID	155	MONTEZUMA	CO	163	SONOMA	CA
150	VALLEY	ID	155	SAN JUAN	CO	163	STANISLAUS	CA
150	WASHINGTON	ID	155	SAN JUAN	NM	163	TRINITY	CA
151	ALPINE	CA	156	APACHE	AZ	163	TUOLUMNE	CA
151	CHURCHILL	NV	156	BERNALILLO	NM	164	AMADOR	CA
151	DOUGLAS	NV	156	CATRON	NM	164	BUTTE	CA
151	ELKO	NV	156	MCKINLEY	NM	164	COLUSA	CA
151	EUREKA	NV	156	SANDOVAL	NM	164	EL DORADO	CA
151	HUMBOLDT	NV	156	SOCORRO	NM	164	GLENN	CA
151	INYO	CA	156	TORRANCE	NM	164	NEVADA	CA
151	LANDER	NV	156	VALENCIA	NM	164	PLACER	CA
151	LASSEN	CA	157	CULBERSON	TX	164	SACRAMENTO	CA
151	LYON	NV	157	DONA ANA	NM	164	SUTTER	CA
151	MONO	CA	157	EL PASO	TX	164	YOLO	CA
151	ORMSBY	NV	157	HUDSPETH	TX	164	YUBA	CA
151	PERSHING	NV	157	LINCOLN	NM	165	KLAMATH	OR
151	PLUMAS	CA	157	OTERO	NM	165	MODOC	CA
151	SIERRA	CA	157	SIERRA	NM	165	SHASTA	CA
151	STOREY	NV	158	GILA	AZ	165	SISKIYOU	CA
151	WASHOE	NV	158	GRAHAM	AZ	165	TEHAMA	CA
151	WHITE PINE	NV	158	GRANT	NM	166	COOS	OR
152	BOX ELDER	UT	158	GREENLEE	AZ	166	CURRY	OR
152	CACHE	UT	158	HIDALGO	NM	166	DEL NORTE	CA
152	CARBON	UT	158	LUNA	NM	166	DOUGLAS	OR
152	DAVIS	UT	158	MARICOPA	AZ	166	JACKSON	OR
152	DUCHESNE	UT	158	PINAL	AZ	166	JOSEPHINE	OR
152	EMERY	UT	159	COCHISE	AZ	166	LANE	OR
152	FRANKLIN	ID	159	PIMA	AZ	167	BENTON	OR
152	GRAND	UT	159	SANTA CRUZ	AZ	167	CLACKAMAS	OR
152	JUAB	UT	160	IMPERIAL	CA	167	CLARK	WA
152	MILLARD	UT	160	KERN	CA	167	CLATSOP	OR
152	MORGAN	UT	160	LOS ANGELES	CA	167	COLUMBIA	OR
152	ONEIDA	ID	160	ORANGE	CA	167	COWLITZ	WA
152	SALT LAKE	UT	160	RIVERSIDE	CA	167	CROOK	OR
152	SANPETE	UT	160	SAN BERNARDIN	CA	167	DESCHUTES	OR
152	SEVIER	UT	160	SAN LUIS OBIS	CA	167	HOOD RIVER	OR
152	SUMMIT	UT	160	SANTA BARBARA	CA	167	JEFFERSON	OR
152	TOOELE	UT	160	VENTURA	CA	167	KLICKITAT	WA

BEA	COUNTY	ST	BEA	COUNTY	ST	BEA	COUNTY	ST
167	LAKE	OR	168	MORROW	OR	170	ISLAND	WA
167	LINCOLN	OR	168	UMATILLA	OR	170	JEFFERSON	WA
167	LINN	OR	168	UNION	OR	170	KING	WA
167	MARION	OR	168	WALLA WALLA	WA	170	KITSAP	WA
167	MULTNOMAH	OR	168	WALLOWA	OR	170	LEWIS	WA
167	POLK	OR	168	WHEELER	OR	170	MASON	WA
167	SHERMAN	OR	169	ADAMS	WA	170	PACIFIC	WA
167	SKAMANIA	WA	169	BENTON	WA	170	PIERCE	WA
167	TILLAMOOK	OR	169	CHELAN	WA	170	SAN JUAN	WA
167	WAHKIAKUM	WA	169	DOUGLAS	WA	170	SKAGIT	WA
167	WASCO	OR	169	FRANKLIN	WA	170	SNOHOMISH	WA
167	WASHINGTON	OR	169	GRANT	WA	170	THURSTON	WA
167	YAMHILL	OR	169	KITTITAS	WA	170	WHATCOM	WA
168	BAKER	OR	169	OKANOGAN	WA	171	ANCHORAGE	AK
168	COLUMBIA	WA	169	YAKIMA	WA	172	HONOLULU	HI
168	GILLIAM	OR	170	CLALLAM	WA			
168	GRANT	OR	170	GRAYS HARBOR	WA			

2022 Surface Transportation Board Public Use Waybill 247-Byte Record Layout

Table 4-6. 247-Byte STB Public Use Waybill File Record Layout

Field	Name	Number of Positions	Form	Columns
1	Waybill Date (mm/dd/yy)	6	N	1–6
2	Accounting Period (mm/yy)	4	N	7–10
3	Number of Carloads	4	N	11–14
4	Car Ownership Category Code	1	A	15
5	AAR Equipment Type Code	4	A/N	16–19
6	AAR Mechanical Designation	4	A	20–23
7	STB Car Type	2	N	24–25
8	TOFC/COFC Service Code	3	A/N	26–28
9	Number of TOFC/COFC Units	4	N	29–32
10	Trailer/Container Unit Ownership Code	1	A	33
11	Trailer/Container Unit Type Code	1	A	34
12	Hazardous/Bulk Material in Boxcar	1	A	35
13	Commodity Code (STCC)	5	N	36–40
14	Billed Weight in Tons	7	N	41–47
15	Actual Weight in Tons	7	N	48–54
16	Freight Revenue (\$)	9	N	55–63
17	Transit Charges (\$)	9	N	64–72
18	Miscellaneous Charges (\$)	9	N	73–81
19	Inter/Intra State Code	1	N	82
20	Type of Move	1	N	83
21	All Rail/Intermodal Code	1	N	84
22	Type of Move via Water	1	N	85
23	Transit Code	1	N	86
24	Substituted Truck for Rail Service	1	N	87
25	Rebill Code	1	N	88
26	Estimated Short Line Miles	4	N	89–92
27	Stratum Identification	1	N	93
28	Subsample Code	1	N	94
29	Exact Expansion Factor	5	N	95–99
30	Theoretical Expansion Factor	3	N	100–102
31	Number of Interchanges	1	N	103
32	Origin BEA Area	3	N	104–106
33	Origin Freight Rate Territory	1	N	107
34	Interchange State #1	2	A	108–109
35	Interchange State #2	2	A	110–111
36	Interchange State #3	2	A	112–113
37	Interchange State #4	2	A	114–115
38	Interchange State #5	2	A	116–117
39	Interchange State #6	2	A	118–119
40	Interchange State #7	2	A	120–121
41	Interchange State #8	2	A	122–123
42	Interchange State #9	2	A	124–125

Field	Name	Number of Positions	Form	Columns
43	Termination BEA Area	3	N	126–128
44	Termination Freight Rate Territory	1	N	129
45	Waybill Reporting Period Length	1	N	130
46	Car Capacity	5	N	131–135
47	Nominal Car Capacity - Expired	3	N	136–138
48	Tare Weight of Car	4	N	139–142
49	Outside Length	5	N	143–147
50	Outside Width	4	N	148–151
51	Outside Height	4	N	152–155
52	Extreme Outside Height	4	N	156–159
53	Type of Wheel Bearings and Brakes	1	A	160
54	Number of Axles	1	A/N	161
55	Draft Gear	2	N	162–16
56	Number of Articulated Units	1	A/N	164
57	AAR Error Codes	4	N	165–168
57-A	Blank	46	N	169–214
58	Routing Error Flag	1	A	215
59	Expanded Carloads	6	N	216–221
60	Expanded Tons	9	N	222–230
61	Expanded Freight Revenue	11	N	231–241
62	Expanded Trailer/Container Count	6	N	242–247

2022 Surface Transportation Board Public Use Waybill 247-Byte Record Data Element Descriptions

Table 4-7. 247-Byte STB Public Use Waybill Data Element Descriptions

Field	Description
1	<p>Waybill Date (Month, Day, Year) (6-digit numeric)</p> <p>The waybill date is the date on which the originating railroad prepares the waybill¹.</p>
2	<p>Accounting Period (Month, Year) (4-digit numeric)</p> <p>The accounting period is the month and year during which the study waybill is entered into the railroad's revenue accounting system. This information is subsequently reflected in the net income statement of the company for the specified account month¹.</p>
3	<p>Number of Carloads (4-digit numeric)</p> <p>The total number of carloads on the sampled waybill¹.</p>
4	<p>Car Ownership Code (1-character alpha)</p> <p>(P) Privately-owned car (R) Railroad-owned car (T) TTX-owned car²</p>
5	<p>AAR Equipment Type Code (4-character alphanumeric)</p> <p>Alpha-numeric code giving a general physical description of the type of equipment². (See Umler Field Descriptions, AAR Equipment Type)</p>
6	<p>AAR Mechanical Designation (4-character alpha)</p> <p>Mechanical designation is dependent on AAR equipment type². (See Umler Data Specification Manual, Section I)</p>
7	<p>STB Car Type (2-digit numeric)</p> <p>The STB car type is inferred from the AAR equipment type, as described in field 5, and corresponds to the line number on STB Form 710 for type of car⁴. (See Table 4-9. STB Car Types)</p>

Field	Description
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8 Intermodal (TOFC/COFC) Service Code (3-character alphanumeric, space fill)

The code for the Intermodal Service Code (ISC) must be entered in the first position of the field. If possible, when different ISC's are used during the sampled waybill movement, enter the code for the applicable ISC at termination in the first position of the field, and the code for the applicable ISC at origination in the second position of the field. For example, 'B C' indicates that the TOFC movement started on ISC 20 and terminated on ISC 22.

Note: Three blanks in this field will indicate the movement is not intermodal in nature. 'Unknown' ISCs are indicated by 'X'¹.

Table 4-8. Revised Intermodal Service Plan Code Reporting

Intermodal Service Code	Unit Owner	Service Provided by Carrier	Determination of Charges	STB Alternate Coding
15	Motor/Rail	R-R, Ramp to Ramp	Agreed between Trucker & Rail	A
20	Rail	T-R-T, Door to Door	Truck Competitive Rates	B
22	Rail	T-R, Door to Destination Ramp	Truck Competitive Rates	C
25	Rail	R-R, Ramp to Ramp	Special Mode of Code 20 Rates	D
27	Rail	R-T, Origin Ramp to Door	Truck Competitive Rates	E
40	Steamship/Stack Operator	T-R-T, Door to Door	Domestic Container Movements Without Prior or Subsequent Waterborne Movement. Applies to U.S./Canada/Mexican Traffic. Equipment Supplied by Stack Operator or Steamship Line.	F
42	Steamship/Stack Operator	T-R, Door to Destination Ramp	Domestic Container Movements Without Prior or Subsequent Waterborne Movement. Applies to U.S./Canada/Mexican Traffic. Equipment Supplied by Stack Operator or Steamship Line.	G
45	Steamship/Stack Operator	R-R, Ramp to Ramp	Domestic Container Movements Without Prior or Subsequent Waterborne Movement. Applies to U.S./Canada/Mexican Traffic. Equipment Supplied by Stack Operator or Steamship Line.	H
47	Steamship/Stack Operator	R-T, Origin Ramp to Door	Domestic Container Movements Without Prior or Subsequent Waterborne Movement. Applies to U.S./Canada/Mexican Traffic. Equipment Supplied by Stack Operator or Steamship Line.	I
60	Patron	T-R-T, Door to Door	Patron Supplied Equipment	K
62	Patron	T-R, Door to Destination Ramp	Patron Supplied Equipment	L
65	Patron	R-R, Ramp to Ramp	Patron Supplied Equipment	M
67	Patron	R-T, Origin Ramp to Door	Patron Supplied Equipment	N
80	Steamship/Stack Operator	T-R-T, Door to Door	International Shipments With Prior or Subsequent Waterborne Movement. Includes Alaska, Hawaii, Puerto Rico. Equipment Supplied by Stack Operator or Steamship Line.	O
82	Steamship/Stack Operator	T-R, Door to Destination Ramp	International Shipments With Prior or Subsequent Waterborne Movement. Includes Alaska, Hawaii, Puerto Rico. Equipment Supplied by Stack Operator or Steamship Line.	P
85	Steamship/Stack Operator	R-R, Ramp to Ramp	International Shipments With Prior or Subsequent Waterborne Movement. Includes Alaska, Hawaii, Puerto Rico. Equipment Supplied by Stack Operator or Steamship Line.	Q
87	Steamship/Stack Operator	R-T, Origin Ramp to Door	International Shipments With Prior or Subsequent Waterborne Movement. Includes Alaska, Hawaii, Puerto Rico. Equipment Supplied by Stack Operator or Steamship Line.	R
Unknown	Unknown	Unknown	Unknown	X

Field	Description
9	Number of TOFC/COFC Units (4-digit numeric) The total number of TOFC/COFC units reported on the sampled waybill ¹ .
10	Intermodal Unit Ownership Code (1-character alpha) (P) Privately-owned Trailer/Container (R) Railroad-owned Trailer/Container ²
11	Intermodal Unit Type Code (1-character alpha) (T) TOFC Trailer (C) COFC Container (U) Unknown ²
12	Hazardous/Bulk Material in Boxcar (1-character alpha) (B) Bulk, non-hazardous material (STCC 50 series), moved in a Boxcar (H) Hazardous material (STCC 49 series) moved in any type of car (blank) neither of the above ⁸
13	Commodity Code (STCC / non-HAZMAT) (5-digit numeric) The Standard Transportation Commodity Code (STCC) identifies the product designation for the transported commodity. This field includes the first five digits of the seven-digit STCC; however, STCC 19 series commodities are reported only at the 2-digit level. See STCC Headers for list of two-to-five-digit STCC headers ¹ . Note: This field does not include Hazardous materials (series 49xxx) or Bulk materials in Boxcars (series 50xxx). All STCC 49 and 50 series codes have been translated to actual product commodity codes.
14	Billed Weight in Tons (7-digit numeric) The billed weight of lading, calculated in tons ¹ .
15	Actual Weight in Tons (7-digit numeric) The actual weight of lading (if provided), calculated in tons ¹ .
16	Freight Revenue (\$) (9-digit numeric) The total line-haul freight revenue, from origin to destination, shown in dollars ¹ .
17	Transit Charges (\$) (9-digit numeric) Transit charges, where applicable, shown in dollars ¹ .

Field	Description
18	<p>Miscellaneous Charges (\$) (9-digit numeric)</p> <p>The total of all miscellaneous charges (excluding transit charges and freight revenue) shown in dollars¹.</p>
19	<p>Inter/Intra State Code (inferred) (1-digit numeric)</p> <p>Normally, an Intrastate routing is inferred if the origin and destination states are the same. However, an Interstate routing is inferred in cases where the origin and destination stations are within a state, but the customary routing exits and re-enters the state. Interstate movements also include import, export, ex-lake, and lake cargo movements.</p> <p>(1) Interstate (2) Intrastate (9) Unknown¹</p>
20	<p>Type of Move (inferred) (1-digit numeric)</p> <p>(0) Neither import nor export (1) Imported commodity (2) Exported commodity (3) Commodity imported and exported, e.g., land bridge type traffic (9) Unknown¹</p>
21	<p>All Rail/Intermodal Code (1-digit numeric)</p> <p>(1) All Rail (2) Intermodal - a continuous movement involving at least one railroad and another mode. (9) Unknown (X) Not reported on hardcopy waybills¹.</p>

Field	Description
22	<p>Type of Move Via Water (inferred) (1-digit numeric)</p> <ul style="list-style-type: none"> (0) Not a water movement (1) Ex-Lake (from Great Lakes to reporting railroad) (2) Lake Cargo (Rail to Great Lakes) (3) Intercoastal - a continuous movement by U.S. rail which is part of an Atlantic Ocean (or Gulf) and Pacific Ocean movement, in either direction. (4) Coastwise - a continuous movement involving rail at either end of a coastwise movement between ports on the East Coast (including Gulf) or between ports on the West Coast. (5) Inland Waterways - a rail movement in combination with a barge movement on rivers and canals (other than the Great Lakes) that is not considered a part of the rail movement, e.g., rail car ferry. (9) Unknown (X) Not reported on hardcopy waybills¹.
23	<p>Transit Code (1-digit numeric)</p> <ul style="list-style-type: none"> (0) Not a transit movement (1) Transit—indicates that the shipment is the outbound movement from a transit point, where some service has been performed, to the destination point (which can be another transit point). (9) Unknown¹
24	<p>Substituted Truck-for-Rail Service (1-digit numeric)</p> <ul style="list-style-type: none"> (0) Not substituted truck-for-rail service (1) Study movement involves substituted truck-for-rail service. (For example, a rail carrier may be authorized by the STB to institute truck for rail service when rail service is abandoned, or a track is closed for various reasons.) (9) Unknown (X) Not reported on hardcopy waybills¹.

Field	Description
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25 Rebill Code (1-digit numeric)

The Rebill Code indicates whether an interline shipment is billed as a Rule 11 shipment or not. A zero value indicates the shipment was either a local shipment or billed as a through-rate shipment. A non-zero value indicates the shipment was billed as a Rule 11 shipment

For Rule 11 shipments, the routing reported (i.e., the railroads, origination location, interchanges, and termination location) should only include information covered by the billed revenues. Typically, a rebilled shipment only lists the reporting railroad in the route and the origination and termination locations are the on-point and off-point of the reporting railroad. The Rebill Code indicates where in the overall movement of the shipment the reporting railroad participated (e.g., forwarded, bridged, or received). A rebilled shipment may contain multiple railroads listed in the route for multi-party Rule 11 shipments. In those cases, the routing should only include the railroads and locations whose revenue divisions are included in the reported revenue of the waybill.

- (0) Local shipment or normal through-rate (i.e., not a Rule 11 shipment)
- (1) Originated – Delivered Rule 11 shipment
- (2) Received – Delivered Rule 11 shipment
- (3) Received – Terminated Rule 11 shipment

26 Estimated Short Line Miles (rounded) (4-digit numeric)

The short line miles (shortest rail distance between origin and destination), rounded up to the nearest ten miles⁶.

27 Stratum Identification (1-digit numeric)

Stratum	Carloads per Waybill	Sample Rate
(1)	1 to 2	1/5
(2)	3 to 15	1/5
(3)	16 to 60	1/4
(4)	61 to 100	1/3
(5)	101 and over	1/2
	Intermodal trailer/container units (TCUs) per waybill	Sample Rate
(6)	1 to 2	1/40
(7)	3 and over	1/5
(9)	Optional study: 100% selection of all waybills ^{1 or 6}	

28 Subsample Code Number (1-digit numeric)

Enter the subsample code number which identifies the waybill as being selected in subsample 1, 2, 3, or 4. Enter code 9 for optional study where there is 100% selection of all waybills.⁵

Field	Description
29	<p>Exact Expansion Factor (5-digit numeric)</p> <p>The exact expansion factor is calculated for each waybill, according to the formula shown below, and is used to expand the car, ton, trailer/container, and revenue statistics to 100% levels. The format of this factor is ‘nnn.nn’ with an implied decimal point⁶.</p> $\text{Factor} = (\text{Population count} / \text{Sample count})$
30	<p>Theoretical Expansion Factor (3-digit numeric)</p> <p>The theoretical expansion factor is the inverse of the sampling rate, as indicated by the Stratum Identification number (field 27), and is used to expand the car, ton, trailer/container, and revenue statistics to 100% levels. The format of this factor is an integer value⁶.</p>
31	<p>Number of Interchanges (1-digit numeric)</p> <p>This figure represents the total number of interchanges between railroads in the route¹.</p>
32	<p>Origin BEA Area (3-digit numeric)</p> <p>The Business Economic Area code for the reported waybill movement’s origin location. (See “Department of Commerce - Bureau of Economic Analysis, Business Economic Area Codes” revised for 1997)⁷</p>

Field	Description
33	<p data-bbox="391 275 987 306">Origin Freight Rate Territory (1-digit numeric)</p> <p data-bbox="391 323 1382 422">The freight rate territory, as defined by the STB, in which the reported waybill movement originated. Freight rate territories are imputed from the freight rate areas, and are coded as follows⁴:</p> <ul style="list-style-type: none"> <li data-bbox="391 443 756 474">(0) Cannot be Determined <li data-bbox="391 491 1419 1125">(1) <i>Official Territory</i>: Commencing at the eastern terminus of the United States/Canadian boundary on the Atlantic Ocean and proceeding westwardly along the border to the Straits of Mackinac, thence southwestwardly across Lake Michigan to Kewaunee, Wisconsin, thence southward along the shore of Lake Michigan to Manitowoc, Wisconsin, thence southward along the line of the Chicago and North Western Railway to Milwaukee, Wisconsin, thence northwest along the Milwaukee Railway to Rugby Junction, Wisconsin, thence south along the Soo Line to Duplainville, Wisconsin, thence west along the Milwaukee Railway through Montfort Junction, Wisconsin, to Benton, Wisconsin, thence southwest by air line to the intersection of the Wisconsin-Illinois boundary with the Mississippi River, thence south along the Mississippi River to the mouth of the Ohio River, thence eastward along the Ohio to Cincinnati, Ohio, thence eastward along the Chesapeake and Ohio Railway to Kenova, West Virginia, thence eastward along the Norfolk and Western Railway to its intersection with the former Virginian Railway (now Norfolk and Western) west of Roanoke, Virginia, thence east along the former Virginian Railway to Suffolk, Virginia, thence northeast along the Norfolk and Western Railway to Norfolk, Virginia, and then northeastward along the Atlantic Coast to the point of beginning. <li data-bbox="391 1142 1419 1310">(2) <i>Southern Territory</i>: Commencing at Norfolk, Virginia, and proceeding westwardly along the southern border of Official Territory as described in (1) above, to the mouth of the Ohio River, thence south along the Mississippi River to its mouth, and thence east and north along the Gulf and Atlantic Coast to the point of beginning. <li data-bbox="391 1327 1419 1661">(3) <i>Western Trunk Line Territory</i>: Commencing at the Straits of Mackinac and following the international boundary northeastward and thence westward to the western boundary of North Dakota, thence south along the North Dakota and South Dakota/Montana line to Sheridan, Wyoming, thence southward along the line of the Burlington system to the Colorado/New Mexico line, thence eastward following the northern boundary of New Mexico, Oklahoma, and Arkansas to the Mississippi River, thence northward along the Mississippi River to the Wisconsin/Illinois line, and thence back to the point of beginning following the northwest boundary of Official Territory, as described in (1) above.

Field	Description
33	<p>Origin Freight Rate Territory (1-digit numeric) (cont'd)</p> <p>(4) <i>Southwestern Territory:</i> Commencing at the intersection of the Missouri/Arkansas boundary with the Mississippi River and proceeding westward along the southern boundary of Missouri, Kansas and Colorado to the point where the Santa Fe Railway crosses the Colorado/New Mexico line, thence southward along the Santa Fe Railway to El Paso, Texas, thence following the international boundary to the mouth of the Rio Grande River, thence along the Gulf Coast to the mouth of the Mississippi River, and thence northward along the Mississippi River to the point of beginning.</p> <p>(5) <i>Mountain-Pacific Territory:</i> That portion of the United States which lies west of the western boundaries of Western Trunk Line and Southwestern Territories as described in (3) and (4) above.</p>
34	<p>Interchange State #1 (2-character alpha)</p> <p>The two-character abbreviation for the state in which the reported waybill's first junction interchange station is located¹.</p>
35	<p>Interchange State #2 (2-character alpha)</p> <p>The two-character abbreviation for the state in which the reported waybill's second junction interchange station is located¹.</p>
36	<p>Interchange State #3 (2-character alpha)</p> <p>The two-character abbreviation for the state in which the reported waybill's third junction interchange station is located¹.</p>
37	<p>Interchange State #4 (2-character alpha)</p> <p>The two-character abbreviation for the state in which the reported waybill's fourth junction interchange station is located¹.</p>
38	<p>Interchange State #5 (2-character alpha)</p> <p>The two-character abbreviation for the state in which the reported waybill's fifth junction interchange station is located¹.</p>
39	<p>Interchange State #6 (2-character alpha)</p> <p>The two-character abbreviation for the state in which the reported waybill's sixth junction interchange station is located¹.</p>
40	<p>Interchange State #7 (2-character alpha)</p> <p>The two-character abbreviation for the state in which the reported waybill's seventh junction interchange station is located¹.</p>

Field	Description
41	<p>Interchange State #8 (2-character alpha)</p> <p>The two-character abbreviation for the state in which the reported waybill's eighth junction interchange station is located¹.</p>
42	<p>Interchange State #9 (2-character alpha)</p> <p>The two-character abbreviation for the state in which the reported waybill's ninth junction interchange station is located¹.</p>
43	<p>Termination BEA Area (3-digit numeric)</p> <p>The Business Economic Area code for the reported waybill movement's termination location. (See Table 4-4 and Table 4-5 for "Department of Commerce - Bureau of Economic Analysis, Business Economic Area Codes")⁷</p>
44	<p>Termination Freight Rate Territory (1-digit numeric)</p> <p>The freight rate territory, as defined by the STB, in which the reported waybill movement terminated. See Field 33 for full descriptions.</p> <ul style="list-style-type: none"> (0) Unknown (1) Official Territory (2) Southern Territory (3) Western Trunk Line Territory (4) Southwestern Territory (5) Mountain-Pacific Territory⁴
45	<p>Reporting Period Length (1-digit numeric)</p> <ul style="list-style-type: none"> (1) Monthly (2) Quarterly¹
46	<p>Car Capacity (5-digit numeric)</p> <p>Cubic foot capacity of car (for all equipment types except flat)².</p>
47	<p>Nominal Capacity (3-digit numeric)</p> <p>Expired</p>
48	<p>Tare Weight of Car (4-digit numeric)</p> <p>The actual light weight (not an average), in hundredweight, for each car².</p>

Field	Description
49	<p>Outside Length (5-digit numeric)</p> <p>Distance between pulling faces of the couplers in normal position. The first three-digits represent feet. The last 2 digits represent inches, rounded up to the next inch in the case of a fraction. Example: 5 ¼" = 6"².</p>
50	<p>Outside Width (4-digit numeric)</p> <p>Measurement of outside width of car, including attachments projecting to greatest extent. The first two digits represent feet. The last two digits represent inches, rounded up to next inch in the case of a fraction².</p>
51	<p>Outside Height (4-digit numeric)</p> <p>Measurement from top of rail to top of eaves at side of car. The first two digits represent feet. The last two digits represent inches, rounded up to the next inch in the case of a fraction².</p>
52	<p>Extreme Outside Height (4-digit numeric)</p> <p>Measurement from top of rail to location where extreme height occurs. The first two digits represent feet. The last two digits represent inches, rounded up to the next inch in the case of a fraction².</p>
53	<p>Type of Wheel Bearings and Brakes (1-character alpha)</p> <ul style="list-style-type: none"> (A) Plain bearings and composition brake shoes (B) Roller bearings and composition brake shoes (C) Plain bearings and cast iron brake shoes (D) Roller bearings and cast iron brake shoes (E) Roller bearings, composition brake shoes and constant contact side bearings (F) Roller bearings, cast iron brake shoes and constant contact side bearings (G) Roller bearings, composition brake shoes, and empty/load brake system (H) Roller bearings, composition brake shoes, constant contact side bearings, and empty/load brake system (I) Roller bearings, cast iron shoes and empty/load brake system (J) Roller bearings, cast iron shoes, constant contact side bearings, and empty/load brake system (K) Roller bearings, composition brake shoes and designed for high-speed train operations (L) Roller bearings, composition brake shoes, empty/load brake system and designed for high-speed train operations²

Field	Description																																																																								
54	<p>Number of Axles (1-character alphanumeric):</p> <table border="0"> <thead> <tr> <th>Code</th> <th>Axles</th> <th>Code</th> <th>Axles</th> <th>Code</th> <th>Axles</th> </tr> </thead> <tbody> <tr> <td>(2)</td> <td>2</td> <td>(F)</td> <td>16</td> <td>(Q)</td> <td>27</td> </tr> <tr> <td>(4)</td> <td>4</td> <td>(G)</td> <td>17</td> <td>(R)</td> <td>28</td> </tr> <tr> <td>(6)</td> <td>6</td> <td>(H)</td> <td>18</td> <td>(S)</td> <td>29</td> </tr> <tr> <td>(8)</td> <td>8</td> <td>(I)</td> <td>19</td> <td>(T)</td> <td>30</td> </tr> <tr> <td>(9)</td> <td>9</td> <td>(J)</td> <td>20</td> <td>(U)</td> <td>31</td> </tr> <tr> <td>(0)</td> <td>10</td> <td>(K)</td> <td>21</td> <td>(V)</td> <td>32</td> </tr> <tr> <td>(A)</td> <td>11</td> <td>(L)</td> <td>22</td> <td>(W)</td> <td>33</td> </tr> <tr> <td>(B)</td> <td>12</td> <td>(M)</td> <td>23</td> <td>(X)</td> <td>34</td> </tr> <tr> <td>(C)</td> <td>13</td> <td>(N)</td> <td>24</td> <td>(Y)</td> <td>35</td> </tr> <tr> <td>(D)</td> <td>14</td> <td>(O)</td> <td>25</td> <td>(Z)</td> <td>36 or more²</td> </tr> <tr> <td>(E)</td> <td>15</td> <td>(P)</td> <td>26</td> <td></td> <td></td> </tr> </tbody> </table>	Code	Axles	Code	Axles	Code	Axles	(2)	2	(F)	16	(Q)	27	(4)	4	(G)	17	(R)	28	(6)	6	(H)	18	(S)	29	(8)	8	(I)	19	(T)	30	(9)	9	(J)	20	(U)	31	(0)	10	(K)	21	(V)	32	(A)	11	(L)	22	(W)	33	(B)	12	(M)	23	(X)	34	(C)	13	(N)	24	(Y)	35	(D)	14	(O)	25	(Z)	36 or more ²	(E)	15	(P)	26		
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55	<p>Draft Gear (2-digit numeric)</p> <p>Coding is equipment type dependent; refer to Section 1 of the Umler Specification Manual².</p>																																																																								
56	<p>Number of Articulated Units (1-digit numeric)</p> <p>An articulated car consists of two or more cars permanently coupled together in such a manner that they cannot be separated for operations in interchange service as individual cars. Such cars will be operated under one reporting mark and one reporting number. The reported code indicates the number of units permanently attached. The minimum is 2, while 9 indicates nine or more units².</p> <p>Note: '0' indicates that the car is not articulated.</p>																																																																								
57	<p>AAR Error Codes (4-digit numeric)</p> <p>Two two-digit error codes are appended to the end of each waybill record. Refer to the 900-Byte layout section entitled "Error Codes and Messages" for specific error code definitions⁵.</p>																																																																								
58	<p>Routing Error Flag (1-character alpha)</p> <p>This field contains either a 'T' (true) or an 'F' (false). An 'F' indicates that Railinc was not able to sufficiently identify the actual origin or termination point of the route, to calculate a carrying distance for one or more railroads in the route. An 'F' in this field will be accompanied by a '99999' in the total distance field (and one or more railroad distance fields), and '99999' in all of the split revenue fields⁶.</p>																																																																								
59	<p>Expanded Carloads (6-digit numeric)</p> <p>The number of carloads (field 3) multiplied by the expansion factor (field 30)⁶.</p>																																																																								

Field	Description
60	Expanded Tons (9-digit numeric) The billed weight in tons (field 14) multiplied by the expansion factor (field 30) ⁶ .
61	Expanded Freight Revenue (11-digit numeric) The total freight revenue (field 16) multiplied by the expansion factor (field 30) ⁶ .
62	Expanded Trailer/Container Count (6-digit numeric) The number of TOFC/COFC units (field 9) multiplied by the expansion factor (see Field 30) ⁶ .

Sources:

- 1 Reported by Railroad
- 2 Umler - function of Car Initial (field 6) and Car Number (field 7)
- 3 Centralized Station Master (CSM) - function of Railroad (field 33, 51) and Freight Station (field 32, 52)
- 4 Surface Transportation Board (STB) - Uniform Rail Costing System (URCS)
- 5 Association of American Railroads
- 6 US Department of Commerce
- 7 Standard Transportation Commodity Code (STCC)
- 8 US Census Bureau

STCC Headers

01	FARM PRODUCTS	01198	SUGAR CANE
011	FIELD CROPS	01199	FIELD CROPS, NEC
0112	COTTON, RAW	012	FRESH FRUITS OR TREE
01129	RAW COTTON, NEC	0121	CITRUS FRUITS
0113	GRAIN	01211	GRAPEFRUIT
01131	BARLEY	01212	LEMONS
01132	CORN EXC. POPCORN SEE 01152	01214	ORANGES
01133	OATS	01215	TANGERINES
01134	RICE, ROUGH	01219	CITRUS FRUITS, NEC
01135	RYE	0122	DECIDUOUS FRUITS
01136	SORGHUM GRAINS	01221	APPLES
01137	WHEAT EXC. BUCKWHEAT SEE 01139	01222	APRICOTS
01139	GRAIN, NEC	01223	CHERRIES
0114	OIL KERNELS, NUTS OR SEEDS EXC. EDIBLE TREE NUTS SEE 0129 OR 2071	01224	GRAPES
01141	COTTONSEEDS	01225	NECTARINES
01142	FLAXSEEDS	01226	PEACHES
01143	PEANUTS	01227	PEARS
01144	SOYBEANS (SOYA BEANS)	01228	PLUMS OR PRUNES EXC. MARMALADE PLUMS SEE 01239
01149	OIL KERNELS, NUTS OR SEEDS, NEC EXC. EDIBLE TREE NUTS SEE 01298 OR 20712	01229	DECIDUOUS FRUITS, NEC
0115	FIELD SEEDS EXC. OIL SEEDS SEE 0114	0123	TROPICAL FRUITS EXC. CITRUS SEE 0121
01151	LAWN GRASS SEEDS	01231	AVOCADOS
01152	POPCORN	01232	BANANAS
01159	FIELD SEEDS, NEC EXC. SEEDS SEE 01141- 01149	01233	PINEAPPLES
0119	MISCELLANEOUS FIELD	01239	TROPICAL FRUITS, NEC CITRUS SEE 01211-01219
01191	FODDER, HAY OR ROUGHAGE EXC. CHOPPED, GROUND OR PULVERIZED SEE 01991-01992	0129	MISCELLANEOUS FRESH FRUITS OR TREE NUTS
01192	HOPS	01291	BUSH OR CANE BERRIES
01193	LEAF TOBACCO	01292	CRANBERRIES
01194	POTATOES, SWEET	01293	STRAWBERRIES
01195	POTATOES, OTHER THAN SWEET	01294	COCOA BEANS
01196	STRAW EXC. CHOPPED, GROUND OR PULVERIZED SEE 01991	01295	COFFEE, GREEN
01197	SUGAR BEETS	01298	NUTS, EDIBLE, IN THE SHELL EXC. PEANUTS SEE 01143
		01299	FRESH FRUITS OR TREE NUTS, NEC
		013	FRESH VEGETABLES

0131	BULBS, ROOTS OR TUBERS, WITH OR WITHOUT TOPS POTATOES SEE 0119	01399	FRESH VEGETABLES, NEC
01311	BEETS EXC. SUGAR BEETS SEE 01197	014	LIVESTOCK OR LIVESTOCK PRODUCTS
01312	CARROTS	0141	LIVESTOCK EXC. HORSES OR MULES SEE 0192
01313	ONIONS, GREEN	01411	CATTLE VIZ. BULLS, COWS, HEIFERS, OXEN OR STEERS
01315	RADISHES	01412	CALVES
01317	TURNIPS	01413	SWINE VIZ. BARROWS, BOARS, HOGS, PIGS OR
01318	ONIONS, DRY	01414	SHEEP VIZ. EWES, LAMBS, RAMS OR WETHERS
01319	BULBS, ROOTS OR TUBERS, WITH OR WITHOUT TOPS, EXC. POTATOES, SWEET SEE 01194 OR OTHER THAN SEE 01195	01415	GOATS OR KIDS
0133	LEAFY FRESH VEGETABLES	01419	LIVESTOCK, NEC EXC. HORSES OR MULES SEE
01331	BROCCOLI	0142	DAIRY FARM PRODUCTS EXC. PASTEURIZED SEE 2026
01332	BRUSSELS SPROUTS	01421	DAIRY FARM PRODUCTS EXC. PASTEURIZED SEE 20251-20264
01333	CABBAGE	0143	ANIMAL FIBRES
01334	CELERY	01431	WOOL EXC. SCOURED SEE 22971
01335	LETTUCE	01432	MOHAIR (ANGORA GOAT EXC. SCOURED SEE 22971 FIBRES, NEC
01336	CHARD, KALE OR SPINACH	015	POULTRY OR POULTRY PRODUCTS
01337	CAULIFLOWER	0151	LIVE POULTRY
01339	LEAFY FRESH VEGETABLES, NEC	01511	LIVE CHICKENS EXC. BABY SEE 01513
0134	FIELD DRY RIPE VEGETABLE FOOD SEEDS EXC. ARTIFICIALLY DRIED SEE 2034	01512	LIVE TURKEYS EXC. BABY SEE 01513
01341	BEANS, DRY RIPE	01513	LIVE BABY POULTRY
01342	PEAS, DRY	01519	LIVE POULTRY, NEC
01343	COWPEAS, LENTILS OR LUPINES	0152	POULTRY EGGS
01349	FIELD DRY RIPE VEGETABLE FOOD SEEDS, NEC EXC. ARTIFICIALLY DRIED SEE 20342-20343	01521	EGGS, MARKET
0139	MISCELLANEOUS FRESH TABLES	01522	HATCHING EGGS, CHICKEN
01391	BEANS, STRING, LIMA OR WAX, OR PEAS, GREEN OR FRESH	01523	HATCHING EGGS, TURKEY
01392	WATERMELONS	01529	POULTRY EGGS, NEC
01393	SWEET CORN	019	MISCELLANEOUS FARM PRODUCTS
01394	TOMATOES	0191	HORTICULTURAL
01395	CUCUMBERS	01912	NURSERY STOCK VIZ. BULBS, PLANTS OR TUBERS, SHRUBS, OR TREES, FRUIT OR SHADE, OR VINES, ETC.
01396	PEPPERS	01915	HERBS (SEEDS, LEAVES, ROOTS, ETC.)
01397	PUMPKINS OR SQUASH	01916	MUSHROOMS, FRESH
01398	CANTALOUPE, MELONS OR MUSKMELONS EXC. WATERMELONS SEE 01392	01917	VEGETABLE OR BERRY

01918	FLOWER OR VEGETABLE	09121	FINFISH
01919	HORTICULTURAL SPECIALTIES, NEC	09122	SHELLFISH
01921	HORSES OR MULES, LIVE VIZ. COLTS, GELDINGS, MARES, PONIES OR STALLIONS, OR FOR MULES, ASSES, BURROS, DONKEYS, JACKS OR JENNIES	09123	WHALE PRODUCTS
01923	HIDES, PELTS OR SKINS, NOT TANNED EXC. CATTLE, GOAT, HORSE, MULE, SHEEP OR SWINE SEE 20141, MARINE ANIMAL SEE 09132	0913	OTHER MARINE PRODUCTS
01928	ANIMAL OR POULTRY MANURE	09131	SHELLS, OYSTER, CRAB, CLAM, ETC.
01929	ANIMAL SPECIALTIES, NEC	09132	MARINE ANIMAL SKINS, UNTANNED EXC. WHALE SEE 09123
0199	FARM PRODUCTS, NEC	09139	MISCELLANEOUS MARINE PRODUCTS, NEC
01991	CHOPPED, GROUND OR PULVERIZED HAY, STRAW OR RELATED AGRICULTURAL PRODUCTS EXC. ALFALFA 01992	098	FISH HATCHERIES, FARMS PRESERVES
01992	CHOPPED, GROUND OR PULVERIZED ALFALFA	0989	FISH HATCHERIES, FARMS PRESERVES
01999	FARM PRODUCTS, NEC	09891	TROPICAL FISH HATCHERIES OR FARMS
08	FOREST PRODUCTS	10	METALLIC ORES
084	BARKS OR GUMS, CRUDE	101	IRON ORES
0842	BARKS OR GUMS, CRUDE	1011	IRON ORES
08422	BARKS OR GUMS, CRUDE LATEX OR ALLIED GUMS (CRUDE RUBBER) SEE 08423	10111	IRON DIRECT-SHIPING ORES, CRUDE
08423	LATEX GUMS (CRUDE RUBBER) OR ALLIED GUMS	10112	IRON BENEFICIATING-GRADE ORES, CRUDE, OR IRON TO PROCESSING OR BENEFICIATING PLANTS
086	MISCELLANEOUS FOREST PRODUCTS	10113	IRON CONCENTRATES OR AGGLOMERATES
0861	MISCELLANEOUS FOREST PRODUCTS	102	COPPER ORES
08611	CHRISTMAS TREES EXC. ARTIFICIAL SEE 39621	1021	COPPER ORES
08612	DECORATIVE EVERGREENS, HOLLY OR MISTLETOE EXC. ARTIFICIAL SEE 39621	10211	CRUDE COPPER ORES
08613	FERNS EXC. ARTIFICIAL 39621	10212	COPPER CONCENTRATES OR PRECIPITATES
08619	FOREST PRODUCTS, NEC, OR TREE SEEDS, INEDIBLE OIL SEEDS SEE 01141-01149	103	LEAD OR ZINC ORES
09	FRESH FISH OR OTHER MARINE PRODUCTS	1031	LEAD ORES
091	FRESH FISH OR OTHER MARINE PRODUCTS EXC. PROCESSED SEE 203	10311	CRUDE LEAD ORES
0912	FRESH FISH OR WHALE PRODUCTS, OR FRESH UNPACKAGED (UNPROCESSED) FISH EXC. FRESH OR FRESH FROZEN PROCESSED FISH 2036	10312	LEAD CONCENTRATES
		1032	ZINC ORES
		10321	CRUDE ZINC ORES
		10322	ZINC CONCENTRATES
		1033	LEAD AND ZINC ORES COMBINED
		10331	CRUDE LEAD AND ZINC ORES COMBINED
		10332	LEAD AND ZINC CONCENTRATES COMBINED
		104	GOLD OR SILVER ORES
		1041	GOLD ORE
		10411	CRUDE GOLD ORE OR TAILINGS

10412	GOLD CONCENTRATES OR PRECIPITATES OR GOLD BULLION	1121	BITUMINOUS COAL
1042	SILVER ORE	11211	RAW BITUMINOUS COAL
10421	CRUDE SILVER ORE OR INGS	11212	PREPARED BITUMINOUS COAL EXC. GROUND OR OTHER THAN FOR FUEL OR STEAM PURPOSES SEE 29919
10422	SILVER CONCENTRATES OR SILVER MILL BULLION	11219	BITUMINOUS COAL WASTE
105	BAUXITE OR OTHER ORES	1122	LIGNITE
1051	BAUXITE ORES OR OTHER ALUMINUM ORES	11221	LIGNITE, PREPARED OR RAW EXC. GROUND OR OTHER THAN FOR FUEL OR STEAM PURPOSES SEE 29919
10511	CRUDE BAUXITE ORES	13	CRUDE PETROLEUM, NATURAL GAS OR GASOLINE
10513	CALCINED OR ACTIVATED BAUXITE ORES	131	CRUDE PETROLEUM OR NATU RAL GAS
10514	ALUMINUM ORES EXC. BAUXITE SEE 10511 AND 10513	1311	CRUDE PETROLEUM
106	MANGANESE ORES	13111	CRUDE PETROLEUM
1061	MANGANESE ORES	1312	NATURAL GAS
10611	MANGANESE ORES, CRUDE	13121	NATURAL GAS
10612	MANGANESE BENEFICIATING-GRADE ORE, CRUDE	132	NATURAL GASOLINE EXC. LIQUEFIED PETROLEUM SEE 291
10613	MANGANESE CONCENTRATES AGGLOMERATES	1321	NATURAL GASOLINE EXC. LIQUEFIED PETROLEUM SEE 2912
107	TUNGSTEN ORES	13211	NATURAL GASOLINE EXC. LIQUEFIED PETROLEUM SEE 29121
1071	TUNGSTEN ORES	14	NONMETALLIC MINERALS EXC. FUELS
10711	CRUDE TUNGSTEN ORES	141	DIMENSION STONE, QUARRY
10712	TUNGSTEN CONCENTRATES	1411	DIMENSION STONE, QUARRY EXC. DRESSED, POLISHED, SHAPED OR OTHERWISE FINISHED SEE 3281
108	CHROMIUM ORES	14111	DIMENSION STONE, QUARRY EXC. DRESSED, POLISHED, SHAPED OR OTHERWISE FINISHED SEE 32811- 32819
1081	CHROMIUM ORES	142	CRUSHED OR BROKEN STONE OR RIPRAP
10811	CRUDE CHROMIUM ORES	1421	BROKEN OR CRUSHED STONE, OR RIPRAP EXC. GROUND OR OTHERWISE TREATED SEE 3295
10812	CHROMIUM CONCENTRATES	14211	AGRICULTURAL LIMESTONE, BROKEN OR CRUSHED EXC. GROUND OR OTHERWISE TED, SEE 32959
109	MISCELLANEOUS METAL ORES	14212	FLUXING LIMESTONE OR STONE, BROKEN OR CRUSHED
1092	MISCELLANEOUS METAL ORES	14219	BROKEN OR CRUSHED STONE OR RIPRAP, NEC EXC. GROUND OR OTHERWISE TED, SEE 32951- 32959
10923	RADIO-ACTIVE ORES UM, RADIUM, ETC)	144	GRAVEL OR SAND
10929	MISCELLANEOUS METAL NEC		
11	COAL		
111	ANTHRACITE		
1111	ANTHRACITE		
11111	RAW ANTHRACITE		
11112	PREPARED ANTHRACITE GROUND OR PULVERIZED OTHER THAN FOR FUEL OR STEAM PURPOSES SEE 29919		
112	BITUMINOUS COAL OR LIGNITE		

1441	GRAVEL OR SAND EXC. ABRASIVE SEE 1491	14715	ROCK SALT, CRUDE, CRUSHED, LUMP OR EXC. SODIUM CHLORIDE (COMMON SALT), SEE 28991
14411	SAND (AGGREGATE OR BALLAST) EXC. ABRASIVE SEE 14916	14716	SULPHUR, CRUDE, LIQUID, MOLTEN OR SOLID EXC. GROUND OR OTHERWISE TREATED SEE 32959
14412	GRAVEL (AGGREGATE OR BALLAST)	14719	CHEMICAL OR FERTILIZER MINERALS, NEC EXC. OR OTHERWISE TREATED SEE 28711- 28719 OR 32951-32959
14413	INDUSTRIAL SAND, CRUDE, GROUND OR PULVERIZED ABRASIVE SEE 14916 OR TREATED, OTHER THAN GROUND OR PULVERIZED SEE 32952	149	MISCELLANEOUS MINERALS EXC. FUELS SEE 111-112 OR 299
145	CLAY, CERAMIC OR REFRACTORY MINERALS	1491	MISCELLANEOUS MINERALS, NEC, CRUDE EXC. GROUND OR OTHERWISE TREATED AT OTHER THAN MINE SITE SEE 3295, OR FUELS SEE 1111-1122 OR 2991
1451	CERAMIC, CLAY OR REFRACTORY MINERALS, CRUDE EXC. GROUND OR OTHERWISE TREATED SEE 3295	14911	ANHYDRITE OR GYPSUM, CRUDE EXC. GROUND OR OTHERWISE TREATED AT OTHER THAN MINE SITE SEE 32956
14511	BENTONITE, CRUDE EXC. GROUND OR OTHERWISE TREATED SEE 32952	14912	MICA, CRUDE EXC. GROUND OR OTHERWISE TREATED SEE 32957
14512	FIRE CLAY, CRUDE EXC. GROUND OR OTHERWISE TREATED SEE 32952	14913	NATIVE ASPHALT OR BITUMENS
14513	FULLERS EARTH, CRUDE GROUND OR OTHERWISE TREATED SEE 32952	14914	PUMICE OR PUMICITE, EXC. GROUND OR OTHERWISE TREATED SEE 32959
14514	BALL OR KAOLIN CLAY, CRUDE EXC. GROUND OR OTHERWISE TREATED SEE 32952	14915	PYROPHYLLITE, SOAPSTONE OR TALC, CRUDE EXC. GROUND OR OTHERWISE TREATED SEE 32954
14515	FELDSPAR, CRUDE EXC. GROUND OR OTHERWISE TREATED SEE 32955	14916	NATURAL ABRASIVES, FLOUR OR SIZED GRAINS, OR POWDERS EXC. INDUSTRIAL DIAMOND ABRASIVES SEE 32912, OR SAND SEE 14411-14413
14516	BRUCITE OR MAGNESITE, CRUDE EXC. GROUND OR OTHERWISE TREATED SEE 32953 OR 32959	14917	PEAT, NATURAL EXC. OR OTHERWISE TREATED SEE 32959
14519	CERAMIC OR CLAY NEC, CRUDE EXC. GROUND OTHERWISE TREATED SEE 32951-32959	14918	DIATOMACEOUS OR AL EARTH, CRUDE EXC. GROUND OR OTHERWISE TREATED AT OTHER THAN MINE SITE SEE 32952 OR 32959, OR FULLERS EARTH SEE 14513
147	CHEMICAL OR FERTILIZER MINERALS	14919	NONMETALLIC MINERALS, NEC, LOAM, SOIL OR TOPSOIL, NEC EXC. GROUND OR OTHERWISE TREATED AT OTHER THAN MINE SITE SEE 32951-32959, OR FUELS SEE 11111-11221 OR 29911, 29913 OR 29914
1471	CHEMICAL OR FERTILIZER MINERALS, CRUDE EXC. GROUND OR OTHERWISE TREATED SEE 2871 OR 3275	1492	WATER EXC. CARBONATED OR MINERAL SEE 2086
14711	BARITE (BARYTES), CRUDE (HEAVY SPAR OR TIFF) GROUND OR OTHERWISE TREATED SEE 32959	14921	RAW WATER, FOR CONSTRUCTION OR IRRIGATION PURPOSES
14712	FLUORSPAR (FLUORITE OR FLORSPAR), CRUDE EXC. GROUND OR OTHERWISE TREATED SEE 32959	14922	WATER, DRINKING EXC. CARBONATED OR MINERAL SEE 20861
14713	BORATE, POTASH OR SODA, CRUDE EXC. GROUND OR OTHERWISE TREATED SEE 32959 OR 28121-28129	19	ORDNANCE OR ACCESSORIES
14714	APATITE OR PHOSPHATE ROCK, CLAY OR SAND, EXC. GROUND OR OTHERWISE TREATED SEE 28194 OR 28712-28719	191	GUNS, HOWITZERS, RELATED EQUIPMENT OR PARTS, BORE OVER 30

	MM (1. 18 INCH) EXC. SMALL ARMS OR PARTS 30 MM (1. 18 INCH) OR UNDER SEE 195	19411	MILITARY SIGHTING OR CONTROL EQUIPMENT EXC. OPTICAL LENSES OR PRISMS SEE 38311
1911	GUNS, HOWITZERS, RELATED EQUIPMENT OR PARTS, BORE OVER 30 MM (1. 18 INCH) EXC. SMALL ARMS OR PARTS 30 MM (1. 18 INCH) OR UNDER SEE 1951	195	SMALL ARMS, 30 MM (1. 18 INCH) OR UNDER, OR PARTS
		1951	SMALL ARMS, 30 MM (1. 18 INCH) OR UNDER, OR PARTS
19111	GUNS, HOWITZERS, RELATED EQUIPMENT OR PARTS, BORE OVER 30 MM (1. 18 INCH) EXC. SMALL ARMS OR PARTS 30 MM (1. 18 INCH) OR UNDER SEE 19511-19512	19511	MACHINE GUNS, 30 MM (1. 18 INCH) OR UNDER, OR PARTS
		19512	SMALL ARMS, NEC, 30 MM (1. 18 INCH) OR UNDER, PARTS, NEC
192	AMMUNITION, OVER 30 MM (1. 18 INCH) EXC. FOR SMALL ARMS SEE 196	196	SMALL ARMS AMMUNITION, 30 MM OR UNDER (1. 18 INCH OR UNDER)
1925	GUIDED MISSILES OR SPACE VEHICLES, COMPLETELY ASSEMBLED	1961	SMALL ARMS AMMUNITION, 30MM OR UNDER (1. 18 OR UNDER) EXC. BLASTING OR DETONATING CAPS OR SAFETY FUSES SEE 2892 OR FIREWORKS SEE 2899
19251	GUIDED MISSILES OR SPACE VEHICLES, COMPLETELY ASSEMBLED		
1929	AMMUNITION OR RELATED PARTS, NEC EXC. SMALL ARMS SEE 1961 OR PYROTECHNICS SEE 2899	19611	SMALL ARMS AMMUNITION, 30MM OR UNDER (1. 18 OR UNDER) EXC. BLASTING OR DETONATING CAPS OR SAFETY FUSES SEE 28921 FIREWORKS SEE 28993
19291	ARTILLERY AMMUNITION OR RELATED PARTS	199	MISCELLANEOUS ORDNANCE, ACCESSORIES OR PARTS
19293	MILITARY BOMBS, MINES OR RELATED PARTS	1991	MISCELLANEOUS ORDNANCE, ACCESSORIES OR PARTS
19299	AMMUNITION OR RELATED PARTS, NEC, OR CHEMICAL WARFARE PROJECTILES, DEPTH CHARGES, GRENADES, ROCKETS, OTHER THAN GUIDED MISSILES OR TORPEDOES EXC. SMALL ARMS SEE 19611 OR MILITARY PYROTECHNICS SEE 28993	19911	MISCELLANEOUS ORDNANCE, ACCESSORIES OR PARTS
		20	FOOD OR KINDRED PRODUCTS
		201	MEAT, POULTRY OR SMALL GAME, FRESH, CHILLED OR FROZEN
193	FULL TRACKED COMBAT VEHICLES OR PARTS	2011	MEAT, FRESH OR CHILLED EXC. SALTED SEE 20132
1931	FULL TRACKED COMBAT VEHICLES OR PARTS EXC. WHEELED TACTICAL COMBAT VEHICLES SEE 3711	20111	CARCASSES (WHOLE OR PARTS), FABRICATED OR PRIMAL CUTS, OR BONELESS MEAT, FRESH OR CHILLED
19311	MILITARY TANKS OR PARTS EXC. TANK ENGINES SEE 35199	20119	MEAT, FRESH OR CHILLED, NEC EXC. SAUSAGE, FRESH SEE 20133
19312	MILITARY SELF-PROPELLED COMBAT WEAPONS OR PARTS	2012	MEAT FRESH-FROZEN
19313	FULL TRACKED COMBAT CLE OR PARTS EXC. TACTICAL COMBAT VEHICLES SEE 37114	20121	CARCASSES (WHOLE OR PARTS), FABRICATED OR PRIMAL CUTS, OR BONELESS MEAT, FRESH FROZEN
		20129	MEAT, FRESH FROZEN, NEC
194	MILITARY SIGHTING OR CONTROL EQUIPMENT EXC. OPTICAL LENSES OR PRISMS SEE 383	2013	MEAT PRODUCTS
		20131	LARD
1941	MILITARY SIGHTING OR CONTROL EQUIPMENT EXC. OPTICAL LENSES OR PRISMS SEE 3831	20132	MEATS OR SAUSAGE, CURED, DRIED, PRESERVED, SALTED OR SMOKED
		20133	SAUSAGE, FRESH

20134	CANNED MEAT	2025	CHEESE OR SPECIAL DAIRY PRODUCTS
20139	MEAT PRODUCTS, NEC	20251	CHEESE EXC. COTTAGE CHEESE SEE 20252
2014	ANIMAL BY-PRODUCTS, INEDIBLE EXC. FATTY ACIDS 2899 OR FATTY ALCOHOLS SEE 2818	20258	CASEIN PRODUCTS
20141	HIDES, PELTS OR SKINS, NOT TANNED, CATTLE, HORSE, MULE, SHEEP OR SWINE	20259	SPECIAL DAIRY PRODUCTS BY-PRODUCTS, NEC
20143	GREASE OR INEDIBLE OR OTHER INEDIBLE ANIMAL OIL MILL PRODUCTS OR FOOTS	2026	PROCESSED WHOLE MILK, SKIM MILK, CREAM OR FLUID PRODUCTS
20144	ANIMAL REFUSE, TANKAGE, MEAT MEAL, OR DRIED OR RELATED ANIMAL BY-PRODUCTS	20261	BULK FLUID MILK, SKIM MILK OR CREAM
20149	ANIMAL BY-PRODUCTS, INEDIBLE, NEC	20262	PACKAGED (GLASS OR FLUID MILK, SKIM MILK OR CREAM
2015	DRESSED POULTRY OR BY- PRODUCTS OR SMALL OR BY- PRODUCTS, FRESH OR CHILLED	20264	BUTTERMILK, CHOCOLATE MILK OR OTHER FLAVORED MILK DRINKS
20151	DRESSED POULTRY OR SMALL GAME, FRESH OR CHILLED	203	CANNED OR PRESERVED FRUITS, VEGETABLES OR SEAFOOD
20158	POULTRY OR SMALL GAME BY-PRODUCTS, FRESH OR CHILLED	2031	CANNED OR CURED SEA
2016	DRESSED POULTRY OR ED PRODUCTS OR SMALL OR RELATED PRODUCTS, FRESH FROZEN	20311	CANNED FISH OR OTHER FOOD, SEAFOOD CHOWDERS, SOUP OR STEWS OR LIVERS OR ROE EXC. DRIED, PICKLED, SALTED OR SEE 20314
20161	DRESSED POULTRY OR SMALL GAME, FRESH FROZEN	20314	SMOKED, SALTED, PICKLED OR DRIED FISH
20168	POULTRY BY-PRODUCTS OR SMALL GAME BY-PRODUCTS, FRESH FROZEN	2032	CANNED SPECIALTIES
2017	PROCESSED POULTRY OR SMALL GAME, OR EGGS	20321	CANNED BABY FOODS
20171	CANNED POULTRY OR SMALL GAME	20322	CANNED SOUPS EXC. CANNED SEAFOOD SOUPS SEE 20311, FROZEN SOUPS SEE 20381, OR FROZEN SEAFOOD SOUPS SEE 20361
20172	EGGS, CANNED, DRIED, FROZEN, LIQUID, ED, DESICCATED OR OTHER WISE PROCESSED	20323	CANNED BEAN SPECIALTIES, PORK AND BEANS OR BAKED BEANS
202	DAIRY PRODUCTS	20329	CANNED SPECIALTIES, NEC
2021	CREAMERY BUTTER	2033	CANNED FRUITS, JAMS, JELLIES, PRESERVES OR VEGETABLES EXC. SEAFOOD SOUPS SEE 2031 OR 2036, OR BABY FOODS OR SOUPS OTHER THAN SEAFOOD SEE 2032
20211	CREAMERY BUTTER	20331	CANNED FRUITS
2023	CONDENSED, EVAPORATED DRY MILK	20332	CANNED VEGETABLES
20231	DRY MILK PRODUCTS	20333	CANNED HOMINY OR MUSH ROOMS
20233	EVAPORATED OR CONDENSED MILK PRODUCTS	20334	JUICE, FRUIT OR VEGE TABLE, OTHER THAN FROZEN EXC. CIDER SEE 20996
20234	ICE CREAM MIX OR ICE MIX	20336	CATSUP OR OTHER TOMATO SAUCES
2024	ICE CREAM OR RELATED FROZEN DESSERTS	20338	JAMS, JELLIES OR PRESERVES
20241	ICE CREAM OR RELATED FROZEN DESSERTS	20339	CANNED FRUITS OR VEGETABLES, NEC, OR NEC

2034	DEHYDRATED OR DRIED FRUITS OR VEGETABLES OR SOUP MIX EXC. FIELD DRY RIPE VEGETABLE FOOD SEE 0134	2041	FLOUR OR OTHER GRAIN PRODUCTS EXC. RICE SEE 2044 OR PREPARED FLOUR MIXES SEE 2045
20341	DEHYDRATED OR DRIED FRUITS	20411	WHEAT FLOUR EXC. BLENDED OR PREPARED SEE 20451-20452
20342	PROCESSED DRY VEGETABLES, LEGUMES OR SOUP MIXES EXCLUDING FIELD DRIED VEGETABLES AND LEGUMES.	20412	WHEAT BRAN, MIDDLINGS OR SHORTS
20343	DEHYDRATED OR DRIED POTATOES OR PRODUCTS EXC. POTATO CHIPS SEE 20992	20413	CORN MEAL OR FLOUR EXC. ANIMAL OR POULTRY FEED SEE 20421-20423
2035	PICKLED FRUITS OR BLES, SALAD DRESSINGS, SEASONINGS, OR VEGETABLE SAUCES EXC. CATSUP OR TOMATO SAUCES SEE 2033 SPICES SEE 2099	20414	RYE FLOUR OR MEAL
20352	PICKLES OR OTHER PICKLED PRODUCTS	20415	BUCKWHEAT FLOUR OR MEAL
20354	SALAD DRESSINGS, MAYONNAISE OR SALAD DRESSING TYPE SANDWICH SPREADS	20416	OAT MEAL OR FLOUR
20359	SAUCES OR SEASONINGS, EXC. CATSUP OR TOMATO SAUCES SEE 20336 OR ES SEE 20997	20418	GRAIN MILL BY-PRODUCTS EXC. WHEAT BRAN, MIDDLINGS, RED DOG OR SEE 20412
2036	FRESH OR FROZEN (PACKAGED) FISH OR OTHER SEAFOOD	20419	FLOUR OR OTHER GRAIN PRODUCTS, NEC
20361	FROZEN PROCESSED (PACKAGED) FISH OR OTHER SEAFOOD	2042	PREPARED FEED, ANIMAL, FISH OR POULTRY, OTHER THAN DOG, CAT OR OTHER PET FOOD, NEC EXC. CHOPPED, GROUND OR HAY, STRAW OR RELATED PRODUCTS SEE 0199
20362	FRESH PROCESSED (PACKAGED) FISH OR OTHER SEAFOOD	20421	PREPARED FEED, ANIMAL, FISH OR POULTRY, OTHER THAN DOG, CAT OR OTHER PET FOOD, NEC EXC. CANNED SEE 20423, OR CHOPPED, GROUND OR PULVERIZED HAY, STRAW OR RELATED PRODUCTS SEE 01991-01992
2037	FROZEN FRUITS, OR FRUIT JUICES	20423	CANNED FEED, ANIMAL, OR POULTRY, OTHER THAN DOG, CAT OR OTHER PET FOOD, NEC
20371	FROZEN FRUITS	2043	CEREAL PREPARATIONS
20372	FROZEN JUICES OR ADES	20431	COOKED CEREALS, FLAKED, GRANULATED, POPPED, PUFFED, ROLLED, ROASTED OR SHREDDED
20373	FROZEN VEGETABLES	20432	CEREALS, UNCOOKED
20379	FROZEN FRUITS OR VEGETABLES IN MIXED LOADS OR MIXED WITH FROZEN FRUIT JUICES	2044	MILLED RICE, FLOUR OR MEAL
2038	FROZEN SPECIALTIES	20441	RICE, CLEANED
20381	FROZEN PREPARED FOODS OR SOUPS EXC. SEA FOODS SEE 20361	20442	RICE FLOUR, BRAN OR MEAL
2039	MIXED LOADS OF CANNED OR PRESERVED FRUITS, OR VEGETABLES, WITHOUT SEPARATE WEIGHTS	20443	BREWERS RICE
20391	MIXED LOADS OF CANNED OR PRESERVED FRUITS, OR VEGETABLES, OF COMMODITIES IN THE GROUP EXCLUSIVELY, WITHOUT SEPARATE WEIGHTS	20449	MILLED RICE OR BY-PRODUCTS, NEC
204	GRAIN MILL PRODUCTS	2045	BLENDED OR PREPARED EXC. MILLING FLOUR FROM GRAIN SEE 2041 ED, SELF-RISING)
		20452	PREPARED FLOUR MIXES PANCAKE, CAKE, BISCUIT, PIE CRUST MIXES, ETC.
		2046	WET CORN MILLING OR SORGHUM GRAIN (MILO) PRODUCTS, VIZ. OIL,

	STARCH, SUGAR, SYRUP OR SIMILAR PRODUCTS OR BY-PRODUCTS EXC. TABLE SYRUPS OR STARCH BASE DESSERT POWDERS SEE 2099	20625	SUGAR REFINING BY-PRODUCTS
20461	CORN SYRUP	20626	MOLASSES BEET PULP
20462	CORN STARCH	20629	SUGAR, REFINED, CANE OR BEET, NEC
20463	CORN SUGAR	207	CONFECTIONERY OR RELATED PRODUCTS
20464	DEXTRINE, CORN, TAPIOCA OR OTHER	2071	CANDY OR OTHER CONFECTIONERY PRODUCTS
20465	CORN OIL	20711	CANDY OR CANDY BARS, OR PACKAGED
20466	STARCH (POTATO, WHEAT, RICE, ETC.) EXC. CORN 20462	20712	NUTS, COATED, COOKED, ROASTED OR SALTED
20467	WET PROCESS CORN OR LAR MILL BYPRODUCTS	20713	CHOCOLATE OR COCOA PRODUCTS OR BYPRODUCTS
20469	WET PROCESS CORN MILLING OR SIMILAR MILL NEC	20714	CHEWING GUM
2047	DOG, CAT OR OTHER PET FOOD, NEC	20719	CONFECTIONERY OR RELATED PRODUCTS, NEC
20471	DOG, CAT OR OTHER PET FOOD, NEC EXC. CANNED 20472	208	BEVERAGES OR FLAVORING EXTRACTS
20472	CANNED DOG, CAT OR OTHER PET FOOD, NEC	2082	MALT LIQUORS
205	BAKERY PRODUCTS	20821	BEER, ALE, PORTER, STOUT OR OTHER FERMENTED MALT LIQUORS, IN BARRELS, BOTTLES, CANS OR KEGS
2051	BREAD OR OTHER BAKERY PRODUCTS EXC. BISCUITS, CRACKERS, PRETZELS OR OTHER DRY BAKERY SEE 2052	20823	MALT EXTRACTS OR BREWERS SPENT GRAINS
20511	BREAD OR OTHER BAKERY PRODUCTS EXC. BISCUITS, CRACKERS, PRETZELS OR OTHER DRY BAKERY SEE 20521-20529	2083	MALT
2052	BISCUITS, CRACKERS OR PRETZELS	20831	MALT
20521	BISCUITS, CRACKERS OR PRETZELS	20832	MALT FLOUR OR SPROUTS
20529	DRY BAKERY PRODUCTS, NEC	20839	MALT PRODUCTS OR BY-PRODUCTS, NEC
206	SUGAR, BEET OR CANE	2084	WINES, BRANDY OR BRANDY SPIRITS
2061	SUGAR MILL PRODUCTS OR BY-PRODUCTS	20841	WINE, BRANDY OR BRANDY SPIRITS OR FRUIT SPIRITS
20611	RAW CANE OR BEET SUGAR	2085	DISTILLED, RECTIFIED OR BLENDED LIQUORS EXC. BRANDY OR BRANDY SPIRITS SEE 2084
20616	SUGAR MOLASSES EXC. BLACKSTRAP SEE 20617	20851	DISTILLED, RECTIFIED OR BLENDED LIQUORS EXC. BRANDY, BRANDY SPIRITS FRUIT SPIRITS SEE 20841
20617	BLACKSTRAP MOLASSES	20859	BY-PRODUCTS OF LIQUOR DISTILLING OR MINERAL WATERS, BOTTLED, CANNED OR IN BULK EXC. DRINKING PLAIN OR SPRING WATERS SEE 1492
20618	BAGASSE	20861	SOFT DRINKS OR MINERAL WATERS, BOTTLED, CANNED OR IN BULK EXC. DRINKING PLAIN OR SPRING WATERS SEE 14921
20619	SUGAR MILL PRODUCTS OR BY-PRODUCTS, NEC	2087	MISCELLANEOUS FLAVORING EXTRACTS, SYRUPS OR COMPOUNDS EXC. CHOCOLATE SYRUPS SEE 2071
2062	SUGAR, REFINED, CANE BEET		
20621	SUGAR, GRANULATED OR POWDERED, SUGAR CUBES OR TABLETS		
20622	SUGAR, LIQUID OR SYRUP		

20871	MISCELLANEOUS FLAVORING EXTRACTS, SYRUPS OR COMPOUNDS EXC. CHOCOLATE SYRUPS SEE 20713	20951	ROASTED COFFEE OR COFFEE
209	MISCELLANEOUS FOOD RATIONS OR KINDRED PRODUCTS	2096	MARGARINE, SHORTENING OR TABLE OILS OR OTHER EDIBLE FATS OR OILS, NEC EXC. CORN OIL SEE 2046
2091	COTTONSEED OIL OR BY-PRODUCTS EXC. EDIBLE OILS SEE 2096 OR FATTY ACIDS SEE 2899	20961	SHORTENING OR COOKING OR SALAD OILS EXC. CORN OIL SEE 20465
20911	COTTONSEED OIL, CRUDE OR REFINED EXC. EDIBLE COOKING OILS SEE 20961	20962	MARGARINE
20914	COTTONSEED CAKE OR MEAL OR BY-PRODUCTS EXC. COTTON LINTERS OR REGINS SEE 20915 OR FATTY ACID SEE 28994	2097	ICE, NATURAL OR MANUFACTURED
20915	COTTON LINTERS OR REGINS	20971	ICE, NATURAL OR MANUFACTURED
2092	SOYBEAN OIL OR BY-PRODUCTS EXC. EDIBLE COOKING OILS SEE 2096 OR FATTY ACIDS SEE 2899	2098	MACARONI, SPAGHETTI, VERMICELLI OR NOODLES OR PRODUCTS THEREOF, DRY EXC. CANNED SEE 2032
20921	SOYBEAN OIL, CRUDE OR REFINED EXC. EDIBLE ING OILS SEE 20961	20981	MACARONI, SPAGHETTI, VERMICELLI OR NOODLES OR PRODUCTS THEREOF, DRY EXC. CANNED SEE 20329
20923	SOYBEAN CAKE, FLOUR, GRITS, MEAL OR OTHER BY-PRODUCTS EXC. FATTY ACIDS SEE 28994	2099	MISCELLANEOUS FOOD RATIONS, NEC
2093	NUT OR VEGETABLE OILS OR BY-PRODUCTS EXC. CORN SEE 2046, COTTONSEED SEE 2091, SOYBEAN SEE 2092, EDIBLE COOKING OILS SEE 2096, OILS FOR MEDICINAL USE SEE 2831 OR FATTY ACIDS SEE 2899	20991	DESSERTS (READY TO MIX)
20931	LINSEED OIL, CRUDE OR REFINED EXC. EDIBLE ING OILS SEE 20961	20992	CHIPS (POTATO, CORN, ETC.)
20933	NUT OR VEGETABLE OILS EXC. CORN SEE 20465, COTTONSEED SEE 20911, SOYBEAN SEE 20921, LIN- SEED SEE 20931, EDIBLE COOKING OILS SEE 20961, OILS FOR MEDICINAL PURPOSES SEE 28311 OR 28312,OR FATTY ACIDS SEE 28994	20993	SWEETENING SYRUPS OR MOLASSES
20939	NUT OR VEGETABLE OIL CAKE OR MEAL OR OTHER BY-PRODUCTS, NEC EXC. CORN SEE 20469, COTTONSEED SEE 20914, SOYBEAN SEE 20923 OR FATTY ACIDS SEE 28994	20994	BAKING POWDER OR YEAST
2094	MARINE FATS OR OILS EXC. OILS FOR MEDICINAL PURPOSES SEE 2831, FATTY ACIDS SEE 2899 OR FATTY ALCOHOLS SEE 2818	20995	MIXED LOADS OF FOOD OR KINDRED PRODUCTS, SEPARATE WEIGHTS, CONSISTING OF COMMODITIES NOT FOUND EXCLUSIVELY IN THE 203 GROUP
20941	MARINE OIL MILL PRODUCTS	20996	CIDER OR VINEGAR
20942	MARINE OIL MILL BY-PRODUCTS VIZ. MEAL, SCRAP OR TANKAGE	20997	SPICES
2095	ROASTED COFFEE OR COFFEE	20998	TEA OR INSTANT TEA
		20999	FOOD PREPARATIONS OR BY-PRODUCTS, NEC
		21	TOBACCO PRODUCTS EXC. INSECTICIDES SEE 28
		211	CIGARETTES
		2111	CIGARETTES
		21111	CIGARETTES EXC. SEE 28311
		212	CIGARS
		2121	CIGARS
		21211	CIGARS
		213	CHEWING OR SMOKING TOBACCO, OR SNUFF
		2131	CHEWING OR SMOKING TOBACCO OR SNUFF
		21311	CHEWING TOBACCO
		21312	SMOKING TOBACCO

21313	SNUFF	22311	WOOL BROAD-WOVEN INCLUDING DYED OR FINISHED EXC. CARPETS, MATS OR RUGS SEE 22711 OR 22721, OR BLANKETS SEE 22313
214	STEMMED OR REDRIED TOBACCO		
2141	STEMMED OR REDRIED TOBACCO		
21411	TOBACCO, STEMMED OR REDRIED	22313	WOOL OR CHIEFLY WOOL BLANKETS
21419	TOBACCO BY-PRODUCTS, LEAF	224	NARROW FABRICS, COTTON, SILK OR WOOL, OR GLASS OTHER MAN- MADE FIBRES
22	TEXTILE MILL PRODUCTS		
221	COTTON BROAD-WOVEN FABRICS	2241	NARROW FABRICS, COTTON, SILK OR WOOL, OR GLASS OTHER MAN- MADE FIBRES
2211	COTTON BROAD-WOVEN FABRICS, INCLUDING FINISHED EXC. CARPETS, MATS OR RUGS SEE 2271-2272 OR TIRE CORD OR FABRICS SEE 2296	22411	NARROW FABRICS, COTTON, SILK OR WOOL, OR GLASS OTHER MAN- MADE FIBRES
22111	COTTON DUCK OR ALLIED FABRICS		
22112	COTTON SHEETINGS, UN-FINISHED (GRAY GOODS) OR OTHER ALLIED PRODUCTS	225	KNIT FABRICS
22113	COTTON OR CHIEFLY COTTON BLANKETS	2251	KNIT FABRICS
22119	COTTON BROAD-WOVEN FABRICS, NEC, FINISHED, OR COTTON BROAD-WOVEN SPECIALTIES EXC. CARPETS, MATS OR RUGS SEE 22711 22721, OR TIRE CORD OR FABRICS SEE 22961	22511	KNIT FABRICS
222	MAN-MADE FIBRE OR SILK BROAD-WOVEN FABRICS	227	FLOOR COVERINGS EXC. SEE 249, HARD SURFACE FLOOR COVERINGS SEE 399 OR RUBBER SEE 306
2221	MAN-MADE OR GLASS FIBRE BROAD-WOVEN FABRICS, UDING FINISHED EXC. CARPETS, MATS OR RUGS SEE 2271 OR 2272, OR TIRE CORD OR FABRICS SEE 2296	2271	WOVEN CARPETS, MATS OR RUGS, TEXTILE YARN
22211	MAN-MADE OR GLASS FIBRE BROAD-WOVEN FABRICS EXC. CARPETS, MATS OR RUGS 22711 OR 22721, OR TIRE CORD OR FABRICS SEE 22961	22711	WOVEN CARPETS, MATS OR RUGS, TEXTILE YARD
22213	MAN-MADE FIBRE BLANKETS, INCLUDING CHIEFLY MAN-MADE FIBRE	2272	TUFTED CARPETS, RUGS OR MATS, TEXTILE FIBRE
2222	SILK-WOVEN FABRICS, INCLUDING FINISHED EXC. CARPETS, MATS OR RUGS 2271 OR 2272, OR TIRE CORD OR FABRICS SEE 22961	22721	TUFTED CARPETS, RUGS OR MATS, TEXTILE FIBRE
22221	SILK-WOVEN FABRICS, INCLUDING FINISHED EXC. CARPETS, MATS OR RUGS 22711 OR 22721, OR TIRE CORD OR FABRICS SEE 22961	2279	CARPETS, MATS OR RUGS, NEC, ALL MATERIALS EXC. CORK SEE 2494, HARD SURFACE FLOOR COVERINGS SEE 3992 OR RUBBER SEE 3061
223	WOOL BROAD-WOVEN FABRICS	22799	CARPETS, MATS OR RUGS, NEC, ALL MATERIALS EXC. CORK SEE 24941, HARD SURFACE FLOOR COVERINGS SEE 39921 OR RUBBER SEE
2231	WOOL BROAD-WOVEN INCLUDING DYED OR FINISHED EXC. CARPETS, MATS OR RUGS SEE 2271 OR 2272	228	THREAD OR YARN
		2281	YARN
		22811	COTTON YARN
		22813	WOOL THREAD OR YARN
		22819	YARN, NEC EXC. HEMP, JUTE, LINEN OR RAMIE
		2284	THREAD EXC. HEMP, JUTE, LINEN OR RAMIE SEE 2299R WOOL SEE 2281
		22841	THREAD EXC. HEMP, JUTE, LINEN OR RAMIE SEE 22999 OR WOOL SEE 22813
		229	MISCELLANEOUS TEXTILE GOODS

2291	FELT GOODS EXC. FELT HATS SEE 2351 OR 2352, OR WOVEN WOOL FELTS OR WOOL HAIRCLOTH SEE 2231	22973	TEXTILE FIBRES, LAPS, NOILS, NUBS, ROVING, SLIVER OR SLUBS, PREPARED FOR SPINNING, COMBED OR CONVERTED
22911	FELT GOODS EXC. FELT HATS SEE 23511 OR 23521, OR WOVEN WOOL FELTS OR WOOL HAIRCLOTH SEE 22311	22974	WOOL OR MOHAIR GREASE
2292	LACE GOODS, INCLUDING DYED OR FINISHED EXC. EMBROIDERIES SEE 2395	2298	CORDAGE OR TWINE
22921	LACE GOODS, INCLUDING DYED OR FINISHED EXC. EMBROIDERIES SEE 23951	22981	CORDAGE OR TWINE
2293	PADDINGS, UPHOLSTERY FILLINGS, BATTING OR WADDING EXC. EXPANDED PLASTICS SEE 3071, FOAM OR SPONGE RUBBER SEE 3061 WOOD EXCELSIOR PADS OR WRAPPERS SEE 2429	2299	TEXTILE GOODS, NEC
22931	PADDINGS, UPHOLSTERY FILLINGS, BATTING OR WADDING EXC. EXPANDED PLASTICS SEE 30716, FOAM OR SPONGE RUBBER SEE 30613 OR WOOD EXCELSIOR PADS WRAPPERS SEE 24294	22991	BONDED FIBRE FABRICS FELTS, WOVEN SEE 22311 UNWOVEN SEE 22911
2294	TEXTILE WASTE, PROCESSED OR RECOVERED FIBRES OR FLOCK EXC. PACKING OR WIPING CLOTHS RAGS SEE 2299	22992	JUTE GOODS EXC. BAGS SEE 23931
22941	TEXTILE WASTE, PROCESSED OR RECOVERED FIBRES OR FLOCK EXC. PACKING OR CLOTHS OR RAGS SEE 22994	22994	PACKING OR WIPING CLOTHS OR RAGS (PROCESSED TEXTILE WASTES)
2295	ARTIFICIAL LEATHER, OILCLOTH OR OTHER COATED OR IMPREGNATED FABRICS, INCLUDING FINISHED, SUCH AS LAMINATED, METALIZED, VARNISHED, WATERPROOFED, WAXED, ETC. EXC. RUBBERIZED SEE 3061	22995	VEGETABLE FIBRES EXC. COTTON SEE 20915 OR 22999
22951	ARTIFICIAL LEATHER, OILCLOTH OR OTHER COATED OR IMPREGNATED FABRICS, INCLUDING FINISHED, SUCH AS LAMINATED, METALIZED, VARNISHED, WATERPROOFED, WAXED, ETC. EXC. RUBBERIZED SEE 30619	22999	TEXTILE GOODS, NEC
2296	CORD OR FABRICS, TIRE, FUEL CELL, INDUSTRIAL BELTING OR FOR SIMILAR USES	23	APPAREL OR OTHER TEXTILE PRODUCTS OR KNIT APPAREL
22961	CORD OR FABRICS, TIRE, FUEL CELL, INDUSTRIAL BELTING OR FOR SIMILAR USES	231	MENS, YOUTHS OR BOYS CLOTHING OR UNIFORMS LEATHER OR SHEEP LINED, OR RAINCOATS SEE 238
2297	WOOL OR MOHAIR, SCOURED, COMBED OR CARBONIZED, OR WOOL OR MOHAIR GREASE, NOILS, NUBS, TOPS OR SLUGS	2311	MENS, YOUTHS OR BOYS CLOTHING OR UNIFORMS LEATHER OR SHEEP LINED SEE 2386 OR RAINCOATS 2385
22971	WOOL OR MOHAIR, CARBONIZED OR SCOURED	23111	MENS, YOUTHS OR BOYS CLOTHING OR UNIFORMS LEATHER OR SHEEP LINED
22972	TOPS, ALL FIBRES, PROCESSED, COMBED OR CONVERTED	233	SEE 23861 OR RAINCOATS SEE 23851 WOMENS, MISSES, OR INFANTS CLOTHING EXC. FUR SEE 237, RAINCOATS SEE 238 OR SURGICAL SEE 384
		2331	WOMENS, MISSES, OR INFANTS CLOTHING EXC. FUR SEE 2371, RAINCOATS SEE 2385 OR SURGICAL SEE 3842
		23311	WOMENS, MISSES, OR INFANTS CLOTHING EXC. FUR SEE 23711, RAINCOATS SEE 23851 OR SURGICAL 38421
		235	CAPS, HATS OR MILLINERY OR HAT BODIES EXC. FUR SEE 237
		2351	MILLINERY EXC. BRAIDS OR TRIMMINGS SEE 2396 OR SEE 2371
		23511	MILLINERY EXC. BRAIDS OR TRIMMINGS SEE 23961 OR FUR SEE 23711
		2352	CAPS OR HATS OR HAT BODIES EXC. FUR SEE 2371 OR MILLINERY SEE 2351

23521	CAPS OR HATS OR HAT BODIES EXC. FUR SEE 23711 MILLINERY SEE 23511	2392	TEXTILE HOUSEFURNISHINGS EXC. CURTAINS, DRAPERIES OR TAPESTRIES SEE 2391, EMBROIDERED SEE 2395 OR LACE SEE 2292
237	FUR GOODS EXC. SHEEP		
2371	LINED CLOTHING SEE 238 FUR GOODS EXC. SHEEP LINED CLOTHING SEE 2386	23921	BEDSPREADS OR BED SETS EXC. EMBROIDERED SEE 23951 OR LACE SEE 22921
23711	FUR GOODS EXC. SHEEP LINED CLOTHING SEE 23861	23922	SHEETS OR PILLOWCASES EXC. EMBROIDERED SEE 23951
238	MISCELLANEOUS APPAREL OR ACCESSORIES	23923	TOWELS OR WASHCLOTHS EMBROIDERED SEE 23951
2381	GLOVES, MITTENS OR LININGS, DRESS OR WORK EXC. ASBESTOS SEE 3292, ALL LEATHER SEE 3151, SEE 3071, RUBBER SEE OR FUR SEE 2371	23924	TABLECLOTHS OR NAPKINS OR RELATED ARTICLES EXC. EMBROIDERED SEE 23951 OR LACE SEE 22921
23811	DRESS GLOVES, MITTENS OR LININGS EXC. ALL LEATHER SEE 31511, PLASTIC SEE 30719 OR FUR SEE 23711	23925	PILLOWS
23812	WORK GLOVES OR MITTENS EXC. ASBESTOS SEE 32929, ALL LEATHER SEE 31511, PLASTIC SEE 30719 OR RUBBER SEE 30619	23926	MOPS OR DUSTERS
2384	ROBES OR DRESSING GOWNS EXC. CHILDRENS OR INFANTS SEE 2331	23927	SLIP COVERS EXC. EMBROIDERED SEE 239511
23841	ROBES OR DRESSING GOWNS EXC. CHILDRENS OR SEE 23311	23928	COMFORTERS OR QUILTS EMBROIDERED SEE 23951
2385	RAINCOATS OR OTHER WATERPROOF OUTER GARMENTS EXC. OILED FABRIC SEE 2311 OR VULCANIZED SEE 3061	23929	TEXTILE NEC EXC. EMBROIDERED SEE 23951 OR LACE SEE 22921
23851	RAINCOATS OR OTHER PROOF OUTER GARMENTS OILED FABRIC SEE 23111 VULCANIZED RUBBER SEE 30619	2393	TEXTILE BAGS EXC. OR LAUNDRY SEE 2392 OR PLASTIC SEE 2643
2386	LEATHER OR SHEEP LINED CLOTHING EXC. LEATHER GLOVES OR MITTENS SEE 3151, FUR GARMENTS SEE 2371	23931	TEXTILE BAGS EXC. OR LAUNDRY SEE 23929 OR PLASTIC SEE 26431
23861	LEATHER OR SHEEP LINED CLOTHING EXC. LEATHER GLOVES OR MITTENS SEE 31511, FUR GARMENTS SEE 23711	2394	CANVAS PRODUCTS EXC. SEE 2393
2387	APPAREL BELTS	23941	TENTS
23871	APPAREL BELTS	23942	AWNINGS OR SHADES
2389	APPAREL, NEC	23943	TARPAULINS
23891	APPAREL, NEC	23944	SAILS
239	MISCELLANEOUS FABRICATED TEXTILE PRODUCTS	23949	CANVAS PRODUCTS, NEC BAGS SEE 23931
2391	CURTAINS OR DRAPERIES EXC. LACE CURTAINS	2395	TEXTILE PRODUCTS, PLEATED, QUILTED, DECORATIVE OR NOVELTY STITCHED, OR RUFFLED OR TUCKED
23911	WINDOW CURTAINS EXC. SEE 22921	23951	TEXTILE PRODUCTS, OR QUILTED, INCLUDING EMBROIDERED, DECORATIVE OR NOVELTY STITCHED, OR RUFFLED OR TUCKED
23912	DRAPERIES OR TAPESTRIES	2396	APPAREL FINDINGS, TEXTILE, OR RELATED PRODUCTS, OR AUTOMOTIVE MINGS
		23961	APPAREL FINDINGS, TEXTILE, OR RELATED PRODUCTS, OR AUTOMOTIVE MINGS
		2399	FABRICATED TEXTILE PRODUCTS, NEC

23991	AUTOMOBILE SEAT COVERS	24219	LUMBER OR DIMENSION STOCK, NEC
23993	SLEEPING BAGS	2429	MISCELLANEOUS SAWMILL OR PLANING MILL PRODUCTS, VIZ. SHINGLES, COOPERAGE STOCK, ETC.
23994	PARACHUTES		
23999	FABRICATED TEXTILE PRODUCTS, NEC	24291	SHINGLES
24	LUMBER OR WOOD PRODUCTS EXC. FURNITURE SEE 25	24292	COOPERAGE STOCK
241	PRIMARY FOREST OR WOOD RAW MATERIALS VIZ. BOLTS, LOGS, PILING, POSTS, PULPWOOD, WOOD CHIPS, ETC EXC. FROM SAWMILLS SEE 242, FROM PLYWOOD OR VENEER MILLS SEE 243, FROM PULP MILLS SEE 261 OR FROM CHARCOAL OR WOOD DISTILLATION PLANTS SEE 286	24293	SHAVINGS OR SAWDUST
		24294	EXCELSIOR, BALED OR
		24299	SAWMILL OR PLANING MILL PRODUCTS, NEC EXC. BOX SPRINGS OR BOXES SEE 24416, MILLWORK SEE 24311-24319, PLYWOOD OR VENEER SEE 24321 OR TEXTILE MACHINERY WOOD SHAPES OR TURNINGS SEE 35522
2411	PRIMARY FOREST OR WOOD RAW MATERIALS VIZ. LOGS, PILING, POSTS, PULPWOOD, WOOD CHIPS, ETC.	243	MILLWORK OR WOOD PRODUCTS OR PLYWOOD OR VENEER
24111	SAWLOGS	2431	MILLWORK OR CABINETWORK, TO BE BUILT IN EXC. COVERED SEE 3442 OR PREFABRICATED STRUCTURAL WOOD PRODUCTS SEE 2433, 2439
24112	HEWN RAILROAD OR MINE TIES		
24113	SHORT LOGS OR WOOD BOLTS		
24114	PULPWOOD LOGS	24311	WINDOW UNITS, WOOD
24115	PULPWOOD OR OTHER WOOD CHIPS	24312	WINDOW SASH OR COMBINATION SCREEN AND STORM SASH, WOOD EXC. WINDOW SCREENS, WOOD FRAMED
24116	WOOD POSTS, POLES OR PILING		
24117	FUELWOOD, HOGFUEL OR CORDWOOD	24313	WINDOW OR DOOR FRAMES OR JAMS, WOOD
24118	WOOD MINE PROPS OR MINE TIMBERS	24314	DOORS OR SHUTTERS OR UNITS, WOOD
24119	PRIMARY FOREST OR WOOD RAW MATERIALS, NEC EXC. FROM SAWMILLS SEE 24211-24299, FROM PLYWOOD OR VENEER MILLS SEE 24321, FROM PULP MILLS SEE 26111 OR FROM CHARCOAL OR WOOD DISTILLATION PLANTS SEE 28612	24316	WOOD MOULDINGS
		24319	MILLWORK, NEC, OR CABINETWORK, TO BE BUILT IN EXC. METAL COVERED SEE 34421- 34425 OR PREFABRICATED STRUCTURAL WOOD PRODUCTS SEE 24332-24391
242	SAWMILL OR PLANING MILL PRODUCTS EXC. BOX SHOOKS OR BOXES SEE 244, MILL WORK, PLYWOOD OR VENEER SEE 243 OR TEXTILE MACHINERY WOOD SHAPES OR TURNINGS SEE 355	2432	PLYWOOD OR VENEER OR BUILT-UP WOOD EXC. PLYWOOD OR VENEER SEE 2441 OR WOOD BOARD OR HARDBOARD SEE 2499
2421	LUMBER OR DIMENSION EXC. BOX SHOOKS OR BOXES SEE 2441, MILLWORK SEE 2431, PLYWOOD OR VENEER SEE 2432 OR TEXTILE MACHINERY WOOD SHAPES OR TURNINGS SEE 3552	24321	PLYWOOD OR VENEER OR BUILT-UP WOOD EXC. PLYWOOD OR VENEER CONTAINERS SEE 24411-24414, HARD BOARD SEE 24993 OR WOOD PARTICLE BOARD SEE 24996
24211	LUMBER, ROUGH OR SOFTWOOD CUT STOCK OR FLOORING	2433	PREFABRICATED WOODEN BUILDINGS OR PANELS OR SECTIONS
24212	SAWED TIES (RAILROAD, MINE, ETC.)	24332	PREFABRICATED BUILDINGS, WOOD
24214	HARDWOOD DIMENSION STOCK OR FURNITURE PARTS OR VEHICLE STOCK	24333	READY-CUT WOOD BUILDINGS OR PANELS OR SECTIONS PREFABRICATED BUILDINGS
24215	HARDWOOD FLOORING		

2434	KITCHEN CABINETS, WOOD	2493	LASTS OR RELATED PRODUCTS, ALL MATERIALS
24341	KITCHEN CABINETS, WOOD	24931	LASTS OR RELATED PRODUCTS, ALL MATERIALS
2439	STRUCTURAL WOOD NEC	2494	CORK PRODUCTS
24391	PREFABRICATED STRUCTURAL MEMBERS OR WOOD	24941	CORK PRODUCTS
244	WOODEN CONTAINERS	2495	HAND TOOL HANDLES
2441	WOODEN CONTAINERS OR BOX SHOOKS	24951	HAND TOOL HANDLES
24411	BOXES, CASES, CRATES OR CARRIERS EXC. ANIMAL OR POULTRY	2496	SCAFFOLDING EQUIPMENT OR LADDERS
24412	CARRIERS, COOPS OR CRATES, ANIMAL OR	24961	SCAFFOLDING EQUIPMENT
24413	FRUIT OR VEGETABLE BASKETS OR HAMPERS OR TILL BOXES OR BASKETS	24962	LADDERS OR LADDER PARTS
24414	BASKETS OR HAMPERS EXC. AMBULANCE OR UNDERTAKER SEE 39941, BAIT OR FISH SEE 39491, FRUIT OR TABLE SEE 24413 OR TOY SEE 39411	2497	WOODEN WARE, NOVELTIES FLATWARE
24415	COOPERAGE	24971	WOODEN WARE
24416	BOX SHOOKS	24972	WOODEN NOVELTIES OR WARE
24419	WOODEN CONTAINERS, NEC, OR CONTAINER NEC	2498	WOOD PRODUCTS, NEC EXC. CONTAINERS SEE 2441
249	MISCELLANEOUS WOOD PRODUCTS EXC. CONTAINERS SEE 244	24981	POLES, RODS OR STAKES, FINISHED
2491	TREATED WOOD PRODUCTS, CREOSOTED, OR TREATED WITH OTHER PRESERVATIVES	24982	BILLBOARDS OR SIGN OR RELATED ARTICLES
24911	WOOD PILING, POSTS, OR TIMBERS, ETC., CREOSOTED, OR TREATED WITH OTHER PRESERVATIVES	24983	SEATS, BATHTUB OR LAUNDRY TUB COVERS, RADIATOR COVERS OR GUARDS, SINK DRAIN OR RELATED ARTICLES
24912	TIES, MINE, RAILROAD, ETC., CREOSOTED, OR TREATED WITH OTHER PRESERVATIVES	24985	BOTTLE STOPPERS, ICE CREAM STICKS, PAINT PADDLES OR PENCIL SLATS
24913	LUMBER, CREOSOTED OR TREATED WITH OTHER PRESERVATIVES	24987	QUILTING FRAMES OR CURTAIN STRETCHERS
24914	PLYWOOD, VENEER OR BUILT-UP WOOD, CREOSOTED OR TREATED WITH OTHER PRESERVATIVES	24988	BOARDS OR TABLES, IRONING
24919	TREATED WOOD PRODUCTS, NEC, CREOSOTED, OR TREATED WITH OTHER PRESERVATIVES	2499	WOOD PRODUCTS, NEC EXC. CONTAINERS SEE 2441
2492	RATTAN, BAMBOO OR WARE EXC. FURNITURE SEE 25, BASKETS OR HAMPERS SEE 2441	24992	SKIDS, PALLETS OR PLATFORMS EXC. METAL SEE 35373
24921	RATTAN, BAMBOO OR WARE EXC. FURNITURE SEE 25, BASKETS OR HAMPERS SEE 24413 OR 24414	24993	HARDBOARD
		24994	MASTS, SPARS OR OARS, WOODEN, OR RELATED BOAT ACCESSORIES
		24995	PIPE, CONDUIT, OR FITTINGS, WOODEN
		24996	WOOD PARTICLE BOARD
		24997	FENCING OR GATES, WOOD
		24998	WOOD REELS OR SPOOLS TEXTILE MACHINERY SPOOLS SEE 35522
		24999	WOOD PRODUCTS, NEC EXC. CONTAINERS SEE 24411-24414 OR 24419
		25	FURNITURE OR FIXTURES

251	HOUSEHOLD OR OFFICE FURNITURE EXC. CONCRETE SEE 327, STONE SEE 328 OR TERRA COTTA SEE 326	25179	CABINETS, NEC, OR CASES, NEC, HOUSEHOLD OR OFFICE EXC. CHINA CABINETS SEE 25141, DISPLAY CASES SEE 25411 OR 25421, OR EN CABINETS SEE 24341 OR 25174
2511	BENCHES, CHAIRS, ROCKERS OR STOOLS, HOUSEHOLD OR OFFICE EXC. CONCRETE SEE 3271, STONE SEE 3281 OR TERRA COTTA SEE 3269	2518	INFANTS OR CHILDRENS FURNITURE
25111	BENCHES, CHAIRS, ROCKERS OR STOOLS, HOUSEHOLD OR OFFICE EXC. CONCRETE SEE 32719, STONE SEE 32819 TERRA COTTA SEE 32699	25181	INFANTS OR CHILDRENS FURNITURE
2512	TABLES OR DESKS, HOUSEHOLD OR OFFICE EXC. CONCRETE SEE 3271, STONE 3281 OR TERRA COTTA SEE 3269	2519	HOUSEHOLD OR OFFICE FURNITURE, NEC EXC. SEE 3271, STONE SEE 3281 OR TERRA COTTA SEE 3269
25121	TABLES OR DESKS, HOUSEHOLD OR OFFICE EXC. CONCRETE SEE 32719, STONE SEE 32819 OR TERRA COTTA SEE 32699	25199	HOUSEHOLD OR OFFICE FURNITURE, NEC EXC. SEE 32719, STONE SEE 32819 OR TERRA COTTA SEE 32699
2513	DAVENPORTS, SOFAS, ES, LOVE SEATS OR SETTEES, HOUSEHOLD OR OFFICE	253	PUBLIC BUILDING OR ED FURNITURE EXC. CONCRETE SEE 327, STONE SEE 328 OR TERRA COTTA SEE 326
25131	DAVENPORTS, SOFAS, ES, LOVE SEATS OR SETTEES, HOUSEHOLD OR	2531	PUBLIC BUILDING OR ED FURNITURE EXC. CONCRETE SEE 3271, STONE 3281 OR TERRACOTTA SEE 3269
2514	BUFFETS, SERVERS OR CORNER CLOSETS, HOLD	25311	SCHOOL FURNITURE
25141	BUFFETS, SERVERS, CHINA OR CORNER CLOSETS, HOLD	25312	SEATS FOR PUBLIC CONVEYANCES VIZ. AIRCRAFT, AUTOMOBILE, RAILROAD TRUCK OR SCHOOL BUS
2515	BEDSPRINGS OR FOR ALL PURPOSES	25314	SEATS, AUDITORIUM, BLEACHER, CIRCUS, STADIUM OR THEATRE
25151	BED OR BOX SPRINGS, OR MATTRESSES, OR ASSEMBLED SPRINGS OR SPRING CUSHIONS EXC. AUTO SEATS OR BACKS SEE 25312 OR PADDING OR UPHOLSTERY FILLINGS SEE 22931	25319	PUBLIC BUILDING FURNITURE, NEC EXC. CONCRETE SEE 32719, STONE SEE 32819 OR TERRA COTTA SEE 32699
25153	CHAIR OR SOFA BEDS, OR STUDIO COUCHES, OR CONVERTIBLE SOFAS	254	LOCKERS, PARTITIONS OR SHELVING OR OFFICE OR RE FIXTURES
2516	BEDS, DRESSERS, CHESTS DRAWERS OR VANITIES, HOUSEHOLD OR OFFICE EXC. HOSPITAL BEDS SEE 2599	2541	WOOD LOCKERS, PARTITIONS OR SHELVING OR OFFICE OR STORE FIXTURES EXC. REFRIGERATED CABINETS, CASES OR LOCKERS SEE 3585
25161	BEDS, DRESSERS, CHESTS DRAWERS OR VANITIES, HOUSEHOLD OR OFFICE EXC. HOSPITAL BEDS SEE 25991	25411	WOOD LOCKERS, PARTITIONS OR SHELVING OR OFFICE OR STORE FIXTURES EXC. REFRIGERATED CABINETS, CASES OR LOCKERS SEE 35853
2517	CABINETS OR CASES, HOLD OR OFFICE EXC. CABINETS SEE 2514, PLAY CASES SEE 2541 OR 2542 OR WOOD KITCHEN CABINETS SEE 2434	2542	METAL LOCKERS, OR SHELVING OR OFFICE OR STORE FIXTURES EXC. REFRIGERATED CABINETS, CASES OR LOCKERS SEE 3585, OR SAFES OR VAULTS SEE 3492
25171	RADIO, PHONOGRAPH OR TELEVISION CABINETS	25421	METAL LOCKERS, OR SHELVING OR OFFICE OR STORE FIXTURES EXC. REFRIGERATED CABINETS, CASES OR LOCKERS SEE 35853, OR SAFES OR SEE 34921
25173	FILING CABINETS OR CASES	259	MISCELLANEOUS FURNITURE OR FIXTURES EXC. SEE 327, STONE SEE 328 TERRA COTTA SEE 326
25174	KITCHEN CABINETS EXC. WOOD SEE 24341		

2591	VENETIAN BLINDS, SHADES, AWNINGS, CURTAIN RODS OR ACCESSORIES EXC. CANVAS AWNINGS OR SHADES SEE 2394	264	CONVERTED PAPER OR BOARD PRODUCTS EXC. CONTAINERS OR BOXES SEE 265
25911	VENETIAN BLINDS, SHADES, AWNINGS, CURTAIN RODS OR ACCESSORIES EXC. CANVAS AWNINGS OR SHADES SEE 23942	2642	ENVELOPES EXC. SEE 2649
2599	FURNITURE OR FIXTURES, N.E.C. EXC. CONCRETE SEE 3271, STONE SEE 3281 OR TERRA COTTA SEE 3269	26421	ENVELOPES EXC. SEE 26491
25991	HOSPITAL BEDS	2643	PAPER BAGS
25999	FURNITURE OR FIXTURES, NEC, OR RESTAURANT FURNITURE EXC. TABLE ARMCHAIRS SEE 25311, DEN- TAL, HOSPITAL, OPERATING ROOM OR OPTICIANS SEE 38412, HOSPITAL BEDS SEE 25991, CONCRETE SEE 32719, STONE SEE 32819 OR TERRA COTTA SEE 32699	26431	PAPER BAGS
26	PULP, PAPER OR ALLIED PRODUCTS	2644	WALLPAPER
261	PULP OR PULP MILL PRODUCTS	26441	WALLPAPER
2611	PULP OR PULP MILL PRODUCTS	2645	DIE-CUT PAPER OR PAPERBOARD PRODUCTS OR CARDBOARD
26111	PULP	26451	OFFICE SUPPLIES
26112	PULP MILL BY-PRODUCTS	26452	COATED
262	PAPER EXC. BUILDING SEE 266	26453	PAPERBOARD CLOSURES, FOR BOTTLES, CANS OR JARS VIZ. CAPS, COVERS, TOPS, ETC.
2621	PAPER EXC. BUILDING SEE 2661	26459	DIE-CUT PAPER PRODUCTS, NEC, OR PAPERBOARD PRODUCTS OR CARDBOARD, NEC
26211	NEWSPRINT	2646	PRESSED OR MOLDED PULP GOODS
26212	GROUND WOOD PAPER, UN-COATED	26461	BITUMINOUS FIBRE PIPE, SEWER OR DRAINAGE OR CONDUIT OR FITTINGS
26213	PRINTING PAPER, COATED UNCOATED, COATED GROUND-WOOD PAPER, GROUNDWOOD PAPER CONTAINING LESS THAN 60 PERCENT GROUND-WOOD, COATED OR WRITING PAPER	26462	EGG CARTONS, CASES OR RELATED ARTICLES
26214	WRAPPING PAPER, OR COARSE PAPER	26469	PRESSED OR MOLDED PULP GOODS, N. E. C.
26217	SPECIAL INDUSTRIAL PAPER OR PAPER CAR LINERS	2647	SANITARY PAPER PRODUCTS
26218	SANITARY TISSUE STOCK	26471	SANITARY TISSUES OR HEALTH PRODUCTS
26219	PAPER, NEC EXC. BUILDING PAPER SEE 26611-26619	26472	SANITARY OR COTTON SANITARY NAPKINS OR TAMPONS
263	FIBREBOARD, PAPERBOARD PULPBOARD EXC. BUILDING	2649	MISCELLANEOUS CONVERTED PAPER OR PAPERBOARD PRODUCTS
2631	INSULATING BOARD SEE 266 FIBREBOARD, PAPERBOARD PULPBOARD EXC. BUILDING INSULATING BOARD SEE	26491	STATIONERY OR STATIONERY ENVELOPES, TABLETS OR RELATED ARTICLES
26311	FIBREBOARD, PAPERBOARD PULPBOARD EXC. BUILDING INSULATING BOARD SEE 26611-26619	26492	WRAPPING PRODUCTS (GIFT WRAP, ETC)
		26495	BUSINESS MACHINE
		26497	PACKING CUSHIONS, LINERS OR RELATED ARTICLES
		26499	CONVERTED PAPER NEC, OR PAPERBOARD PRODUCTS, NEC

265	CONTAINERS OR BOXES, PAPERBOARD, FIBREBOARD PULPBOARD	27211	PERIODICALS
2651	CONTAINERS OR BOXES, PAPERBOARD, FIBREBOARD PULPBOARD EXC. BUTTER,	273	BOOKS
26511	CONTAINERS OR BOXES, PAPERBOARD, FIBREBOARD PULPBOARD EXC. BUTTER, FROZEN FOOD, ICE CREAM MARGARINE BOXES OR CONTAINERS SEE 26542-26549	2731	BOOKS
26514	BASKETS, HAMPERS OR TILL BOXES, PAPERBOARD OR FIBREBOARD	27311	BOOKS
26515	PALLETS, SKIDS OR PLATFORMS, PAPERBOARD	274	MISCELLANEOUS PRINTED MATTER
2654	SANITARY FOOD CONTAINERS	2741	MISCELLANEOUS PRINTED MATTER
26542	BOTTLES OR CARTONS OR OTHER LIQUID-TIGHT FOOD CONTAINERS	27411	CATALOGUES, DIRECTORIES, BUSINESS SERVICE PUBLICATIONS OR ADVERTISING MATERIALS
26543	PAPER, FIBREBOARD, BOARD OR PULPBOARD CANS, COVERS, CUPS, PAILS, STRAWS OR TUBS	27415	CARDS OR TICKETS EXC. GREETING CARDS SEE 27711
26545	PAPER PLATES, DISHES, FORKS, SPOONS OR RELATED ARTICLES	27417	LABELS, SEALS, TAGS OR WRAPPERS EXC. GOVERNMENT STAMP SEE 27419 OR ING SEE 27711
26549	SANITARY FOOD NEC	27419	PRINTED MATTER, NEC, OR BLUEPRINTS, BUILDING PLANS OR COMMERCIAL DESIGNS
2655	FIBRE CANS, DRUMS OR TUBES OR SIMILAR EXC. SANITARY FOOD CONTAINERS SEE 2654	276	MANIFOLD BUSINESS FORMS
26551	FIBRE CANS, DRUMS OR TUBES OR SIMILAR EXC. SANITARY FOOD CONTAINERS SEE 26542-26549	2761	MANIFOLD BUSINESS FORMS
266	BUILDING PAPER OR BUILDING BOARD	27611	MANIFOLD BUSINESS FORMS
2661	BUILDING PAPER OR BUILDING BOARD	277	GREETING CARDS, SEALS, LABELS OR TAGS
26611	INSULATING BOARD	2771	GREETING CARDS, SEALS, LABELS OR TAGS
26612	CONSTRUCTION PAPER	27711	GREETING CARDS, SEALS, LABELS OR TAGS
26613	WALLBOARD EXC. HARDBOARD SEE 24993	278	BLANK BOOKS, LOOSE LEAF BINDERS OR DEVICES
26614	INSULATING MATERIAL EXC. INSULATING BOARD SEE	2781	BLANK BOOKS, LOOSE LEAF BINDERS OR DEVICES
26615	26611 CONSTRUCTION PANELS, PARTITIONS, SIDING OR FORMS	27811	BLANK BOOKS, PADS OR TABLETS
2661927	BUILDING PAPER OR BUILDING BOARD, NEC PRINTED MATTER	27812	LOOSE LEAF BINDERS OR DEVICES
271	NEWSPAPERS	279	SERVICE INDUSTRIES FOR PRINTING TRADES
2711	NEWSPAPERS	2791	SERVICE INDUSTRIES FOR PRINTING TRADES
27111	NEWSPAPERS	27911	SERVICE INDUSTRIES FOR PRINTING TRADES, INCLUDING ELECTROTYPE, ENGRAVERS, LITHOGRAPHIC OR STEREOTYPE PLATES, SHELLS, BLOCKS OR BARS
272	PERIODICALS	28	CHEMICALS OR ALLIED PRODUCTS
2721	PERIODICALS	281	INDUSTRIAL INORGANIC OR ORGANIC CHEMICALS EXC. PESTICIDES SEE 287, DRUGS, MEDICINAL CHEMICALS OR MEDICINES SEE 283, NAVAL STORES OR

	WOOD DISTILLATION PRODUCTS SEE 286 OR COSMETICS, GLYCERIN OR SOAP SEE 284		OR OTHER CYCLIC CHEMICAL PRODUCTS (SEE ALSO 28151)
2812	POTASSIUM OR SODIUM COMPOUNDS OR OTHER BASIC INORGANIC COMPOUNDS OR CHLORINE	28156	ORGANIC DYES
28121	INORGANIC BLEACHING COMPOUNDS EXC. CHLORINE SEE 28128	28158	ORGANIC PIGMENTS (LAKES OR TONERS)
28122	SODIUM ALKALIES	2816	INORGANIC PIGMENTS EXC. BLACKS SEE 2899 OR IC COLOR PIGMENTS SEE 2815
28123	SODIUM COMPOUNDS EXC. SODIUM ALKALIES SEE	28161	TITANIUM PIGMENTS
28124	POTASSIUM ALKALIES	28162	LEAD PIGMENTS
28125	POTASSIUM COMPOUNDS EXC. POTASSIUM ALKALIES SEE 28124	28163	ZINC PIGMENTS
28126	BARIUM, CALCIUM, MAGNESIUM OR STRONTIUM COMPOUNDS EXC. BLEACHES SEE 28121 OR 28422	28169	INORGANIC PIGMENTS, NEC EXC. BLACKS SEE 28996 OR ORGANIC COLOR PIGMENTS SEE 28158
28128	CHLORINE	2818	INDUSTRIAL ORGANIC CHEMICALS, NEC EXC. GRAIN ALCOHOL FOR BEVERAGE PURPOSES SEE 2085, ESSENTIAL OILS OR FATTY ACIDS SEE 2899, ORGANIC DYES SEE 2815, PAINTS OR ALLIED PRODUCTS SEE 2851, PLASTIC MATERIALS, SYN- THETIC FIBRES, RESINS, RUBBER, OR NONVULCANIZABLE ELASTOMERS SEE 2821, OR SPECIALTY CLEANING, POLISHING OR SANITATION PREPARATIONS SEE 2842
28129	ALKALIES, NEC	28180	MISCELLANEOUS ACYCLIC ORGANIC CHEMICAL (SEE ALSO 28181 AND 28182) EXC. ORGANIC DYES SEE 28156
2813	INDUSTRIAL GASES, COMPRESSED, LIQUEFIED OR SOLID EXC. CHEMICAL WARFARE GASES SEE 2818, AMMONIA OR FLUORINE SEE 2819 OR CHLORINE SEE 2812	28181	MISCELLANEOUS ACYCLIC ORGANIC CHEMICAL EXC. ORGANIC DYES SEE 28156
28132	ACETYLENE	28182	MISCELLANEOUS ACYCLIC ORGANIC CHEMICAL EXC. ORGANIC DYES SEE 28156
28133	CARBON DIOXIDE	28183	MISCELLANEOUS CYCLIC CHEMICAL PRODUCTS
28134	ELEMENTAL GASES	28184	ALCOHOLS
28139	INDUSTRIAL GASES, NEC, COMPRESSED, SOLID OR LIQUEFIED EXC. CHEMICAL WARFARE GASES SEE 28188, AMMONIA OR AMMONIA COM- POUNDS SEE 28191 OR 28198, CHLORINE SEE 28128 OR FLUORINE SEE 28199	28185	GLYCOLS OR GLYCERINES
2814	CRUDE PRODUCTS FROM COAL TAR, NATURAL GAS OR PETROLEUM EXC. ASPHALT, PITCHES OR TAR SEE 2911	28186	ORGANIC ACIDS OR SALTS EXC. ACID DYES SEE 28151-28158, OR FATTY ACIDS SEE 28994
28141	CRUDE PRODUCTS FROM COAL TAR, NATURAL GAS OR PETROLEUM EXC. ASPHALT, PITCHES OR TAR SEE 29116	28187	MISCELLANEOUS ACYCLIC INORGANIC PRODUCTS (SEE ALSO 28180, 28181, EXC. ORGANIC DYES SEE 28156
2815	CYCLIC INTERMEDIATES OR DYES OR ORGANIC PIGMENTS (LAKES OR TONERS)	28188	CHEMICAL WARFARE GASES
28151	CYCLIC INTERMEDIATES BENZENE, TOLUENE, NAPHTHALENE, ANTHRACENE, PYRIDINE, CARBAZOLE OR OTHER CYCLIC CHEMICAL PRODUCTS	28189	INDUSTRIAL ORGANIC CHEMICALS, NEC EXC. GRAIN ALCOHOL FOR BEVERAGE PURPOSES SEE 20851-20859, PAINTS OR ALLIED PRODUCTS SEE 28511-28519, PLASTIC MATERIALS, SYNTHETIC FIBRES, RESINS, RUBBER, OR NONVULCANIZABLE ELASTOMERS SEE
28152	CYCLIC INTERMEDIATES BENZENE, TOLUENE, NAPHTHALENE, ANTHRACENE, PYRIDINE, CARBAZOLE		

	28211-28213, OR SPECIALTY CLEANING, POLISHING OR SANITATION PREPARATIONS SEE 28422-28423	28213	SYNTHETIC FIBERS EXC. GLASS SEE 32293
2819	INDUSTRIAL INORGANIC CHEMICALS, NEC EXC. MINING, MILLING OR OTHERWISE PREPARING NATURAL BORON, SODIUM OR POTASSIUM COMPOUNDS SEE 1471, OR HOUSEHOLD BLEACHES SEE 2842	283	DRUGS (BIOLOGICAL OR BOTANICAL PRODUCTS) (MEDICINAL CHEMICALS OR PHARMACEUTICAL PREPARATIONS)
28190	INDUSTRIAL INORGANIC CHEMICALS, NEC (SEE ALSO 28199) EXC. MINING, MILLING OR OTHERWISE PREPARING NATURAL BORON, SODIUM OR POTASSIUM COMPOUNDS SEE 14713, OR HOUSEHOLD BLEACHES SEE 28422	2831	DRUGS (BIOLOGICAL OR BOTANICAL PRODUCTS) (MEDICINAL CHEMICALS OR PHARMACEUTICAL PREPARATIONS)
28191	AMMONIA OR AMMONIUM COMPOUNDS EXC. ANHYDROUS AMMONIA SEE 28198	28311	DRUGS FOR HUMAN USE
28192	NITRIC ACID	28312	DRUGS FOR VETERINARY USE
28193	SULPHURIC ACID	284	SOAP OR OTHER CLEANING PREPARATIONS, COSMETICS, PERFUMES OR OTHER TOILET
28194	INDUSTRIAL INORGANIC ACIDS EXC. NITRIC SEE 28192, OR SULPHURIC SEE 28193	2841	SOAP OR OTHER DETERGENTS EXC. SPECIALTY CLEANERS SEE 2842, SHAMPOOS OR SHAVING PRODUCTS SEE 2844 OR SYNTHETIC GLYCERIN SEE 2818
28195	COBALT, COPPER, IRON, NICKEL OR ZINC COMPOUNDS	28411	SYNTHETIC ORGANIC DETERGENTS EXC. SYNTHETIC GLYCERIN SEE 28185
28196	ALUMINUM COMPOUNDS	28419	SOAP OR OTHER DETERGENTS EXC. SHAMPOOS OR SHAVING PRODUCTS, SEE 28441, SPECIALTY CLEANERS SEE 28422-28423 OR SYNTHETIC ORGANIC DETERGENTS SEE 28411
28197	RADIO-ACTIVE OR NUCLEAR CHEMICALS	2842	SPECIALTY CLEANING, POLISHING OR SANITATION PREPARATIONS, OR HOUSEHOLD BLEACHES EXC. SOAP OR DETERGENTS SEE 2841 PESTICIDAL PREPARATIONS SEE 2879
28198	ANHYDROUS AMMONIA	28422	SPECIALTY CLEANING, POLISHING OR SANITATION PREPARATIONS, OR HOUSEHOLD BLEACHES EXC. CIDAL PREPARATIONS SEE 28799
28199	INDUSTRIAL INORGANIC CHEMICALS, NEC EXC. MINING, MILLING OR OTHERWISE PREPARING NATURAL BORON, SODIUM OR POTASSIUM COMPOUNDS SEE 14713, OR HOUSEHOLD BLEACHES SEE 28422	28423	WAXES OR POLISHING RATIONS OR RELATED PRODUCTS
282	PLASTIC MATERIALS OR SYNTHETIC FIBRES, RESINS OR RUBBER EXC. GLASS SEE 322, PLASTIC OR RUBBER PRODUCTS SEE 30 OR KNITTING, SPINNING, THROWING OR WEAVING FIBRES SEE 22	2843	SURFACE ACTIVE OR ING AGENTS, SULFONATED OILS OR ASSISTANTS
2821	PLASTIC MATERIALS OR SYNTHETIC FIBRES, RESINS, RUBBERS OR NONVULCANIZABLE ELASTOMERS EXC. FABRICATED OR RUBBER PRODUCTS SEE 3061 OR 3071 OR GLASS FIBRES SEE 3229.	28431	SURFACE ACTIVE OR ING AGENTS, SULFONATED OILS OR ASSISTANTS
28211	PLASTIC MATERIALS OR SYNTHETIC RESINS OR NONVULCANIZABLE ELASTOMERS EXC. FABRICATED PLASTIC PRODUCTS SEE 30711-30719	2844	COSMETICS, PERFUMES OR OTHER TOILET EXC. ESSENTIAL OILS SEE 2899, OR SYNTHETIC FLAVORING OR PERFUME MATERIALS SEE 2818
28212	SYNTHETIC RUBBERS (VULCANIZABLE ELASTOMERS) EXC. FABRICATED RUBBER PRODUCTS SEE 30611-30619	28441	COSMETICS, PERFUMES OR OTHER TOILET EXC. ESSENTIAL OILS SEE 28999, OR SYNTHETIC FLAVORING OR PERFUME MATERIALS SEE 28189
		285	PAINTS, ENAMELS, LACQUERS, SHELLACS OR VARNISHES, OR ALLIED PRODUCTS EXC. BONE, CARBON OR LAMP BLACKS, CALKING COMPOUNDS OR PRINTERS INK SEE 289, INORGANIC

	OR ORGANIC COLOR PIGMENTS SEE 281 OR PLASTIC MATERIALS SEE 282		INDUSTRIAL PESTICIDAL PREPARATIONS, OR AGRICULTURAL DISINFECTANTS, INSECTICIDES OR PESTICIDES EXC. PEST CONTROL CHEMICALS NOT FORMULATED SEE 281 OR AGRICULTURAL LIME PRODUCTS SEE 14211 OR 32959
2851	PAINTS, ENAMELS, LACQUERS, SHELLACS OR VARNISHES, OR ALLIED PROD- UCTS EXC. BONE, CARBON OR LAMP BLACKS SEE 2899, CAULKING COMPOUNDS SEE 2891, INORGANIC OR ORGAN-IC COLOR PIGMENTS SEE 2815 OR 2816, PLASTIC MATERIALS SEE 2821 OR PRIN-TERS INK SEE 2893	289	MISCELLANEOUS CHEMICAL PRODUCTS
28511	PAINTS, ENAMELS, LACQUERS, SHELLACS OR VARNISHES	2891	ADHESIVES
28512	PAINT OILS, SOLVENTS OR THINNERS, PAINT DRYING INGREDIENTS OR RELATED PRODUCTS	28911	ADHESIVES, CEMENTS, GLUES, SIZES, CALMING COMPOUNDS OR SEALANTS EXC. ASBESTOS CEMENT SEE 32921-32929
28513	PUTTY	2892	EXPLOSIVES EXC. AMMUNITION SEE 1929 OR 1961 FIREWORKS OR PYROTECHNICS SEE 2899
28519	PAINTS, ENAMELS, LACQUERS, SHELLACS OR VARN- ISHES OR ALLIED PRODUCTS, NEC, INCLUDING MIXED SHIPMENTS EXC. BONE, CARBON OR LAMP BLACKS SEE 28996, CALMING COMPOUNDS SEE 28911, INORGANIC COLOR PIGMENTS SEE 28161-28167, ORGANIC COLOR PIGMENTS SEE 28151- 28158, PLASTIC MATERIALS SEE 28211- 28213 OR PRINTERS INK SEE 28931	28921	EXPLOSIVES EXC. AMMUNITION SEE 19291-19299, 19611, FIREWORKS OR PYROTECHNICS SEE 28993
286	GUM OR WOOD CHEMICALS	2893	PRINTING INK
2861	GUM OR WOOD CHEMICALS EXC. SYNTHETIC DYES SEE 2815 OR SYNTHETIC CHEMICALS OR TANNING MATERIALS SEE 2818	28931	PRINTING INK
28612	GUM OR WOOD CHEMICALS EXC. SYNTHETIC DYES SEE 28151- 28158 OR SYNTHETIC ORGANIC CHEMICALS OR TANNING MATERIALS SEE 28181-28189	2899	CHEMICALS OR CHEMICAL PREPARATIONS, NEC
287	AGRICULTURAL CHEMICALS	28991	SALT, COMMON
2871	FERTILIZERS EXC. MILLED, MINED OR OTHERWISE PREPARED NATURAL BORON, SODIUM OR POTASSIUM COM-	28993	FIREWORKS OR
28712	SUPERPHOSPHATE SOLUTION OR NITROGEN FERTILIZER SOLUTION	28994	FATTY ACIDS
28714	MISCELLANEOUS FERTILIZER COMPOUNDS	28995	WATER TREATING COMPOUNDS
28719	FERTILIZERS, NEC EXC. MILLED, MINED OR OTHERWISE PREPARED NATURAL BORON, SODIUM OR POTASSIUM COMPOUNDS SEE 14713	28996	BLACKS
2879	MISCELLANEOUS AGRICULTURAL CHEMICALS	28997	MISCELLANEOUS CHEMICAL COMPOUNDS (ALSO SEE 28998) EXC. SEALANTS SEE 28911
28799	AGRICULTURAL CHEMICALS, NEC, FUNGICIDES, HERBICIDES OR PLANT HORMONES, HOUSEHOLD OR	28998	MISCELLANEOUS CHEMICAL COMPOUNDS (ALSO SEE 28997) EXC. SEALANTS SEE 28911
		28999	CHEMICAL PRODUCTS, NEC EXC. SEALANTS SEE 28911
		29	PETROLEUM OR COAL PRODUCTS
		291	PRODUCTS OF PETROLEUM REFINING
		2911	PETROLEUM REFINING PRODUCTS EXC. LIQUEFIED PETROLEUM GASES SEE 2912 PETROLEUM COKE SEE 2991
		29111	GASOLINE OR JET OR HIGH VOLATILE PETROLEUM FUELS EXC. NATURAL GAS OR LINE SEE 13121 OR 13211
		29112	KEROSENE EXC. JET FUELS SEE 29111
		29113	DISTILLATE FUEL OIL
		29114	PETROLEUM LUBRICATING OR SIMILAR OILS, COMPOUNDS OR DERIVATIVES

29115	PETROLEUM LUBRICATING GREASES	29915	DISTILLATE OR RESIDUAL FUEL OIL FROM COAL REFINING
29116	ASPHALT PITCHES OR TARS, FROM PETROLEUM, COAL COKE OVEN OR NATURAL GAS OILS OR OTHER LOW VOLATILE PETROLEUM FUELS	29919	COAL OR PETROLEUM PRODUCTS, NEC EXC. DYES, DYE (CYCLIC) INTERMEDIATES SEE 28151-28158 OR PETROLEUM REFINERY SEE 29111-29119
29119	PETROLEUM REFINING PRODUCTS, NEC EXC. LIQUEFIED PETROLEUM GASES SEE OR PETROLEUM COKE SEE 29913	30	RUBBER OR MISCELLANEOUS PLASTICS PRODUCTS
2912	LIQUEFIED GASES, COAL OR PETROLEUM	301	RUBBER TIRES OR INNER TUBES
29121	LIQUEFIED GASES, COAL OR PETROLEUM	3011	RUBBER TIRES OR INNER TUBES
295	PAVING OR ROOFING MATERIALS	30111	RUBBER PNEUMATIC TIRES PARTS
2951	ASPHALT PAVING BLOCKS OR MIXTURES, INCLUDING CREOSOTED WOOD, TAR OR COMPOSITION OF ASPHALT OR TAR WITH OTHER MATERIALS	30114	RUBBER INNER TUBES
29511	ASPHALT PAVING BLOCKS OR MIXTURES, INCLUDING CREOSOTED WOOD, TAR OR COMPOSITION OF ASPHALT OR TAR WITH OTHER MATERIALS	30115	TREAD RUBBER OR RUBBER TIRE SUNDRIES OR REPAIR MATERIALS
2952	ASPHALT COATINGS OR FELTS OR ROOFING CEMENTS EXC. PAINT SEE 2851 OR LINOLEUM OR TILE CEMENT SEE 2891	30119	RUBBER TIRES OR RELATED
29521	ASPHALT OR TAR SATURATED FELTS, BOARDS OR ROOFING	302	PRODUCTS, NEC RUBBER OR PLASTIC FOOTWEAR
29522	ASPHALT OR TAR CEMENTS COATINGS OR ROOFING CEMENTS OR PITCHES EXC. LINOLEUM OR TILE CEMENT SEE 28911	3021	RUBBER OR PLASTIC FOOTWEAR, INCLUDING FABRIC WITH RUBBER OR PLASTIC SOLES
29523	ASPHALT SHEATHINGS, SHINGLES OR SIDINGS	30211	FOOTWEAR, RUBBER OR RUBBER SOLED FABRIC, CANVAS WITH RUBBER SOLES, LEATHER WITH VULCANIZED RUBBER SOLES OR PLASTIC WITH RUBBER
29529	ASPHALT COATINGS OR FELTS, NEC EXC. PAINT 28511-28519 OR LINOLEUM OR TILE CEMENT SEE 28911	30212	PLASTIC FOOTWEAR, ING FABRIC WITH PLASTIC SOLES
299	MISCELLANEOUS COAL OR PETROLEUM PRODUCTS	303	RECLAIMED RUBBER
2991	MISCELLANEOUS COAL OR PETROLEUM PRODUCTS EXC. PETROLEUM REFINERY SEE 2911	3031	RECLAIMED RUBBER
29911	COAL OR COKE BRIQUETTES (FUEL BRICKS), INCLUDING ANTHRACITE CULM, BITUMINOUS SLACK, CHARCOAL,	30311	RECLAIMED RUBBER
29912	PEAT OR SAWDUST LUBRICANTS OR SIMILAR COMPOUNDS EXC. PETROLEUM REFINERY SEE 29114 OR 29115	304	RUBBER OR PLASTIC HOSE BELTING
29913	PETROLEUM COKE EXC. BRIQUETTES SEE 29911	3041	RUBBER OR PLASTIC HOSE BELTING
29914	COKE PRODUCED FROM COAL	30411	RUBBER OR PLASTIC BELTS OR BELTING
		30412	RUBBER OR PLASTIC HOSE
		306	MISCELLANEOUS FABRICATED RUBBER PRODUCTS
		3061	MISCELLANEOUS FABRICATED RUBBER PRODUCTS
		30613	SPONGE OR FOAM RUBBER GOODS
		30614	RUBBER FLOOR OR WALL
		30618	FABRICATED RUBBER PRODUCTS, NEC EXC. ELASTIC WEBBING SEE 22411, ELASTIC WEBBING PRODUCTS OR RUBBERIZED FABRIC GARMENTS SEE 23, SYNTHETIC RUBBERS SEE 28212, RUBBER CEMENT SEE 28911, RUBBER PACKING

	SEE 32932, RUBBER BELTING SEE 30411 OR RUBBER HOSE SEE 30412	31111	LEATHER, FINISHED OR TANNED
30619	FABRICATED RUBBER PRODUCTS, NEC EXC. ELASTIC WEBBING SEE 22411, ELASTIC WEBBING PRODUCTS OR RUBBERIZED FABRIC GARMENTS SEE 23, SYNTHETIC RUBBERS SEE 28212, RUBBER CEMENT SEE 28911, RUBBER PACKING SEE 32932, RUBBER BELTING SEE 30411 OR RUB-BER HOSE SEE 30412	312	INDUSTRIAL LEATHER BELTING
307	MISCELLANEOUS PLASTIC PRODUCTS	3121	INDUSTRIAL LEATHER BELTING
3071	MISCELLANEOUS PLASTIC PRODUCTS EXC. ARTIFICIAL	31211	INDUSTRIAL LEATHER BELTING
30711	LEATHER SEE 2295 OR TIC MATERIALS SEE 2821 PLASTIC DINNERWARE OR HOUSEWARES	313	BOOT OR SHOE CUT STOCK FINDINGS, ALL MATERIALS
30712	PLASTIC PIPE, TUBING OR FITTINGS	3131	BOOT OR SHOE CUT STOCK FINDINGS, ALL MATERIALS
30713	INDUSTRIAL (MOLDED) TIC PRODUCTS	31311	BOOT OR SHOE CUT STOCK FINDINGS, ALL MATERIALS
30714	UNSUPPORTED VINYL OR POLYETHYLENE FILM OR SHEETING	314	FOOTWEAR, LEATHER OR OTHER MATERIALS EXC. RUBBER OR PLASTIC SEE
30715	UNSUPPORTED PLASTIC OR WALL COVERINGS	3141	FOOTWEAR, LEATHER OR OTHER MATERIALS EXC. RUBBER OR PLASTIC SEE 3021 OR HOUSE SLIPPERS SEE 3142
30716	EXPANDED OR FOAMED PLASTICS	31411	FOOTWEAR, LEATHER OR OTHER MATERIALS EXC. RUBBER SEE 30211, SEE 30212 OR HOUSE SLIPPERS SEE 31421
30717	PLASTIC LAMINATED RODS, SHEETS OR TUBES	3142	HOUSE SLIPPERS, LEATHER OR OTHER MATERIALS
30718	PLASTIC PACKAGING OR SHIPPING CONTAINERS, VIZ. BASKETS, BOTTLES, BOXES, CANS, CUPS, DRUMS, JARS, TUBS, TUBES OR TUMBLERS OR CAPS, CLOSURES, IN- SERTS, OR LINERS FOR CONTAINERS	31421	HOUSE SLIPPERS, LEATHER OR OTHER MATERIALS
30719	MISCELLANEOUS FABRICATED PLASTIC PRODUCTS, NEC EXC. ARTIFICIAL LEATHER SEE 22951, PLASTIC MATE- RIALS SEE 28211, PLASTIC-FOOTWEAR SEE 30212, PLASTIC BELTING SEE 30411 OR PLASTIC HOSE SEE 30412	315	LEATHER GLOVES OR MITTENS
3072	MISCELLANEOUS PLASTIC PRODUCTS EXC. ARTIFICIAL LEATHER SEE 2295 OR TIC MATERIALS SEE 2821	3151	LEATHER DRESS OR WORK GLOVES OR MITTENS EXC. ATHLETIC OR SPORTING SEE 3949 OR CLOTH AND COMBINED SEE 2381
30729	MISCELLANEOUS FABRICATED PLASTIC PRODUCTS, NEC EXC. ARTIFICIAL LEATHER SEE 22951, PLASTIC MATE- RIALS SEE 28211, PLASTIC FOOTWEAR SEE 30212, PLASTIC BELTING SEE 30411 OR PLASTIC HOSE SEE 30412	31511	LEATHER DRESS OR WORK GLOVES OR MITTENS EXC. ATHLETIC OR SPORTING SEE 3949 OR CLOTH AND COMBINED SEE 23811-23812
31	DESCRIPTION LEATHER OR LEATHER PRODUCTS	316	LUGGAGE OR HANDBAGS, LEATHER OR OTHER MATERIALS, OR OTHER PERSONAL LEATHER GOODS EXC. PRECIOUS METAL SEE 391
311	LEATHER	3161	LUGGAGE OR HANDBAGS, LEATHER OR OTHER MATERIALS, OR OTHER PERSONAL LEATHER GOODS EXC. PRECIOUS METAL SEE 3911
3111	LEATHER, FINISHED OR TANNED	31611	LUGGAGE OR HANDBAGS, LEATHER OR OTHER MATERIALS, OR OTHER PERSONAL LEATHER GOODS EXC. HAT BOXES, PAPER OR PAPERBOARD SEE 26511 OR PRECIOUS METAL SEE 39111
		319	LEATHER GOODS, NEC
		3199	LEATHER GOODS, NEC

31999	LEATHER GOODS, NEC	325	STRUCTURAL CLAY PRODUCTS
32	CLAY, CONCRETE, GLASS OR STONE PRODUCTS	3251	CLAY BRICK OR STRUCTURAL CLAY TILE EXC. CERAMIC FLOOR OR WALL TILE SEE 3253, CLAY OR NONCLAY REFRACTORIES SEE 3255, GLASS SEE 3229 OR SAND LIME SEE 3299
321	FLAT GLASS		
3211	FLAT GLASS		
32111	SHEET (WINDOW) GLASS	32511	BRICK OR BLOCKS, CLAY OR SHALE EXC. CLAY OR NONCLAY REFRACTORIES SEE 32551-32552, GLASS SEE 32295 OR SAND LIME SEE 32999
32112	PLATE GLASS		
32113	LAMINATED OR SAFETY		
32119	FLAT GLASS, NEC	32512	GLAZED BRICK OR BLOCKS, CLAY, SHALE OR CERAMIC, OR FACING MOLDING OR TILE OR STRUCTURAL HOLLOW TILE, GLAZED OR NOT GLAZED EXC. CERAMIC FLOOR OR WALL TILE SEE 32531 OR CLAY OR NONCLAY REFRACTORIES SEE 32551-32552
322	GLASS OR GLASSWARE, PRESSED OR BLOWN		
3221	GLASS CONTAINERS	3253	CERAMIC FLOOR OR WALL TILE EXC. DRAIN TILE SEE 3259 OR STRUCTURAL CLAY TILE SEE 3251
32211	GLASS CONTAINERS, OR GLASS CAPS OR COVERS GLASS BOTTLES SEE 32212		
32212	GLASS BOTTLES		
32219	GLASS CONTAINERS, NEC	32531	CERAMIC, ENAMEL, FAIENCE, PROMENADE OR QUARRY FLOOR OR WALL TILE EXC. DRAIN TILE SEE 32592 OR STRUCTURAL CLAY TILE SEE 32512
3229	GLASS OR GLASSWARE, BLOWN OR PRESSED, NEC EXC. ELECTRIC LIGHT BULBS SEE 3641, FLAT GLASS SEE 3211, GLASS CONTAINERS SEE 3221, GLASS WOOL INSULATION PRODUCTS (MINERAL WOOL) SEE 3296 OR OPTICAL LENSES SEE 3831	3255	REFRACTORIES, CLAY OR NONCLAY
		32551	CLAY REFRACTORIES
		32552	NONCLAY REFRACTORIES DEAD BURNED MAGNESIA OR MAGNESITE SEE 32953
32291	ART, KITCHEN, NOVELTY OR TABLE GLASSWARE	3259	MISCELLANEOUS STRUCTURAL CLAY PRODUCTS
32292	LIGHTING GLASSWARE EXC. COMPLETE ELECTRIC LIGHT BULBS SEE 36411	32591	CLAY CONDUIT, CULVERTS, PIPE OR FITTINGS
32293	GLASS FIBRE	32592	CLAY DRAIN TILE
32294	GLASS MIRRORS	32593	CLAY ARCHITECTURAL TERRA COTTA
32295	GLASS BLOCKS, BRICK, SKYLIGHTS OR RELATED PRODUCTS	32594	CLAY ROOFING TILE
32296	ELECTRONIC GLASSWARE COMPLETE ELECTRONIC SEE 36711	32595	CLAY TILE BEAMS, CHANNELS, DOUBLE TREES, GIRDERS OR JOISTS, REINFORCED
32299	GLASS OR GLASSWARE, BLOWN OR PRESSED, NEC EXC. FLAT GLASS SEE 32111-32119, GLASS CONTAINERS SEE 32211-32219, GLASS WOOL INSULATION PRODUCTS (MINERAL WOOL) SEE 32961 OR OPTICAL LENSES SEE 38311	32599	STRUCTURAL CLAY PRODUCTS, NEC
324	HYDRAULIC CEMENT	326	POTTERY OR RELATED PRODUCTS
3241	HYDRAULIC CEMENT	3261	VITREOUS CHINA PLUMBING FIXTURES OR VITREOUS CHINA OR EARTHENWARE BATHROOM ACCESSORIES OR FITTINGS
32411	HYDRAULIC CEMENT, NATURAL, PORTLAND OR MASONRY	32611	VITREOUS CHINA PLUMBING FIXTURES OR VITREOUS CHINA OR EARTHENWARE BATHROOM ACCESSORIES OR FITTINGS
32412	READY-MIX CEMENT OR CONCRETE, DRY	3262	VITREOUS CHINA KITCHEN TABLE ARTICLES OR FINE EARTHENWARE OR WHITEWARE)

32621	VITREOUS CHINA KITCHEN TABLE ARTICLES OR FINE EARTHENWARE OR WHITEWARE)	32819	CLAY STONE OR STONE UCTS, NEC
3264	PORCELAIN ELECTRICAL SUPPLIES, STEATITE OR OTHER CERAMIC ELECTRICAL SUPPLIES	329	ABRASIVES, ASBESTOS UCTS OR MISCELLANEOUS NONMETALLIC MINERAL PRODUCTS
32641	PORCELAIN ELECTRICAL SUPPLIES, STEATITE OR OTHER CERAMIC ELECTRICAL SUPPLIES	3291	ABRASIVE PRODUCTS
3269	MISCELLANEOUS POTTERY PRODUCTS	32911	NONMETALLIC ARTIFICIAL ABRASIVES, FLOUR TIC ABRASIVES), POWDERS OR SIZED GRAINS
32699	POTTERY PRODUCTS, NEC	32912	NONMETALLIC BONDED ABRASIVE PRODUCTS, NONMETALLIC COATED ABRASIVES, OR DIAMOND ABRASIVES
327	CONCRETE, GYPSUM, OR PLASTER PRODUCTS	32914	METAL ABRASIVES OR METAL SCOURING PADS, SOAP IMPREGNATED
3271	CONCRETE PRODUCTS EXC. READY- MIX CONCRETE SEE 3273	32919	ABRASIVE PRODUCTS, NEC
32711	CONCRETE BRICK OR BLOCKS	3292	ASBESTOS PRODUCTS OR ASPHALT FLOOR TILE EXC. ASBESTOS PAPER SEE 2661, OR GASKETS OR PACKING 3293
32713	CONCRETE PILING, POLES POSTS	32921	ASBESTOS FRICTION MATERIAL
32714	CONCRETE CONDUIT, CULVERTS, DRAINS, PIPE OR TILE	32922	ASBESTOS CEMENT PRODUCTS
32715	CONCRETE STRUCTURAL SHAPES, REINFORCED	32923	ASPHALT OR VINYL FLOOR TILE EXC. ASPHALTED FELT BASE OR OTHER HARD SURFACE FLOOR COVERINGS SEE 39921 OR CORK TILE SEE 24941
32719	CONCRETE PRODUCTS, NEC	32924	ASBESTOS INSULATION
3273	READY-MIX CONCRETE, WET	32929	ASBESTOS PRODUCTS, NEC EXC. ASBESTOS PAPER SEE 26612, OR GASKETS OR PACKING SEE 32931- 32932
32731	READY-MIX CONCRETE, WET	3293	GASKETS OR PACKING
3274	LIME OR LIME PLASTER	32931	GASKETS, ALL TYPES
32741	LIME OR LIME PLASTER	32932	PACKING, ALL TYPES
3275	GYPSUM PRODUCTS	3295	NONMETALLIC EARTHS OR MINERALS, GROUND OR TREATED IN ANY OTHER MANNER EXC. COAL SEE 1111-1122 OR 2991, CRUSHED STONE SEE 1421, DIATOMACEOUS OR INFUSORIAL EARTH SEE 1491 OR INDUSTRIAL SAND SEE 1441
32751	GYPSUM LATH	32951	VERMICULITE, EXFOLIATED, LOOSE
32752	GYPSUM PLASTER	32952	LIGHT WEIGHT AGGREGATES, CLAYS OR SLAGS, GROUND OR TREATED IN ANY OTHER MANNER EXC. GROUND OR OTHERWISE TREATED AT MINESITE SEE 14911-14919, OR DIATOMACEOUS OR INFUSORIAL EARTH SEE 14918
32753	GYPSUM BUILDING EXC. LATH SEE 32751, PLASTER SEE 32752 OR WALLBOARD SEE 32754	32953	MAGNESITE OR MAGNESIA, CALCINED, DEAD BURNED OR GROUND
32754	GYPSUM WALLBOARD	32954	PYROPHILLITE, STEATITE (SOAPSTONE) OR TALC, GROUND OR OTHERWISE TREATED
32759	GYPSUM PRODUCTS EXC. GYPSUM BUILDING SEE 32751-32753		
328	CUT STONE OR STONE PROD UCTS		
3281	CUT STONE OR STONE PROD UCTS		
32811	CUT GRANITE OR GRANITE PRODUCTS		
32812	CUT LIMESTONE OR LIMESTONE PRODUCTS		
32813	CUT MARBLE OR MARBLE PRODUCTS		
32814	CUT SLATE, SOAPSTONE, TALC OR RELATED PRODUCTS		

32955	FELDSPAR, GROUND OR OTHERWISE TREATED		EXC. COATING OR ALLIED PROCESSING SEE 34994 OR OVEN PRODUCTS SEE 3311
32956	GROUND UNCALCINED GYPSITE OR ANHYDRITE	33121	STEEL INGOT OR SEMI-FINISHED SHAPES
32957	MICA, GROUND OR TREATED	33122	IRON OR STEEL PLATES
32958	NATURAL GRAPHITE (BLACK LEAD), BLENDED, GROUND, PULVERIZED OR REFINED	33123	IRON OR STEEL SHEET OR STRIP
32959	NONMETALLIC MINERALS OR EARTHS, GROUND OR IN ANY OTHER MANNER EXC. COAL SEE 11111-11222, CRUSHED STONE SEE 14211-14219 OR SAND SEE 14413	33124	IRON OR STEEL BARS, BAR SHAPES OR RODS
		33125	STRUCTURAL SHAPES OR PILING, STEEL MILL PRODUCTS
3296	MINERAL WOOL EXC. ASBESTOS INSULATION SEE 3292 OR TEXTILE GLASS FIBRES SEE 3229	33126	IRON OR STEEL PIPE, OR FITTINGS
		33127	TIN MILL PRODUCTS
32961	MINERAL WOOL EXC. ASBESTOS INSULATION SEE 32924 OR TEXTILE GLASS FIBRES SEE 32293	33128	RAILWAY TRACK MATERIAL VIZ. RAILS, JOINT BARS, TIE PLATES OR RELATED PRODUCTS
3299	MISCELLANEOUS MINERAL PRODUCTS	33129	PRIMARY IRON OR STEEL PRODUCTS, NEC.
32996	NONMETALLIC MINERAL INSULATING MATERIALS EXC. ASBESTOS SEE 32924, GYPSUM SEE 32753, MINERAL WOOL SEE 32961 OR PAPER SEE 26614	3313	ELECTROMETALLURGICAL PRODUCTS EXC. COPPER
32999	NONMETALLIC MINERAL PRODUCTS, NEC, PAPER MACHE ART GOODS, STATUARY GOODS, URNS OR VASES	33131	FERROMANGANESE
		33132	FERROCHROME
		33133	FERROSILICON
33	PRIMARY METAL PRODUCTS, INCLUDING GALVANIZED COATING OR OTHER ALLIED PROCESSING SEE 34994	33134	ADDITIVE ALLOYS EXC. COPPER
		33135	ELECTROMETALLURGICAL PRODUCTS, NEC EXC. ALUMINUM, MAGNESIUM OR COPPER
331	STEEL WORKS, ROLLING MILL, OR OTHER REDUCTION PLANT PRODUCTS, GALVANIZED PRODUCTS EXC. COATING OR OTHER ALLIED PROCESSING SEE 34994	33139	FERROALLOYS, NEC
		3315	STEEL WIRE, NAILS OR SPIKES, INCLUDING GALVANIZED EXC. COATING OR OTHER ALLIED PROCESSING SEE 34994
3311	BLAST OR METALLIZING FURNACE OR COKE OVEN PRODUCTS EXC. COKE, OR COKE BREEZE OR SCREENINGS	33151	NON-INSULATED FERROUS ROPE, CABLE OR STRAND
33111	PIG IRON	33152	STEEL NAILS, STAPLES, TACKS, BRADS OR SPIKES EXC. RAILWAY SPIKES SEE 33128
33112	FURNACE SLAG EXC. GROUND OR OTHERWISE TREATED SEE 32952	33155	STEEL WIRE EXC. NEOUS FABRICATED WIRE PRODUCTS SEE 34812-34819
33115	METALLIZING PLANT PRODUCTS	332	IRON OR STEEL CASTINGS, INCLUDING GALVANIZED COATING OR OTHER ALLIED PROCESSING SEE 34994
33119	BLAST FURNACE, OPEN HEARTH, ROLLING MILL OR COKE OVEN PRODUCTS, NEC EXC. ASPHALT, PITCHES OR TARS SEE 29116, CRUDE TAR PRODUCTS, OR CHEMICALS SEE 28, METALLIC ORES SEE 10 OR OILS SEE 29114 OR 29912	3321	IRON OR STEEL CASTINGS, INCLUDING GALVANIZED COATING OR OTHER ALLIED PROCESSING SEE 34994
		33211	IRON OR STEEL CAST PIPE OR FITTINGS
3312	PRIMARY IRON OR STEEL PRODUCTS, INCLUDING GALVANIZED PRODUCTS	33219	IRON OR STEEL CASTINGS, NEC

333	NONFERROUS METAL PRIMARY SMELTER PRODUCT VIZ. SLAB, INGOT, PIG, ETC., OR RESIDUES	33511	COPPER, BRASS OR BRONZE OR OTHER COPPER BASE ALLOY RODS OR BARS
3331	PRIMARY COPPER SMELTER PRODUCTS	33512	COPPER, BRASS, BRONZE OR OTHER COPPER BASE ALLOY PLATE, SHEET OR STRIP
33311	PRIMARY COPPER OR COPPER BASE ALLOY PIG, SLAB OR INGOTS, ETC.	33513	COPPER, BRASS, BRONZE OR OTHER COPPER BASE ALLOY PIPE OR TUBE
33312	COPPER MATTE, SPEISS, FLUE DUST OR RESIDUES, ETC.	33519	COPPER, BRASS, BRONZE OR OTHER COPPER BASE ALLOY SHAPES, NEC
3332	PRIMARY LEAD SMELTER PRODUCTS	3352	ALUMINUM OR ALUMINUM ALLOY BASIC SHAPES EXC. COATING OR OTHER ALLIED PROCESSING SEE 34994 OR ALUMINUM FOIL OR FOIL STOCK SEE 34992
33321	LEAD PIG, SLAB, INGOTS BULLION EXC. SOLDER, BITT OR TYPE METAL SEE 33567	33521	ALUMINUM OR ALUMINUM ALLOY PLATE OR SHEET
33322	LEAD MATTE, SPEISS, FLUE DUST, DROSS, SLAG, SKIMMINGS, ETC.	33523	ALUMINUM OR ALUMINUM ALLOY RODS OR BARS
3333	PRIMARY ZINC SMELTER PRODUCTS	33524	ALUMINUM OR ALUMINUM ALLOY PIPE OR TUBE
33331	ZINC SMELTER PRODUCTS, VIZ. SPELTER, PIG SLAB INGOTS	33529	ALUMINUM OR ALUMINUM ALLOY BASIC SHAPES, NEC EXC. ALUMINUM FOIL OR FOIL STOCK SEE 34992
33332	ZINC DROSS, RESIDUES, ASHES, ETC.	3356	MISCELLANEOUS NONFERROUS METAL BASIC SHAPES, VIZ. BARS, PIPE, PLATES, SHEET, STRIP OR TUBING EXC. COATING OR OTHER ALLIED PROCESSING SEE 34994
3334	PRIMARY ALUMINUM SMELTER PRODUCTS	33561	MAGNESIUM OR MAGNESIUM BASE ALLOY BASIC SHAPES
33341	PRIMARY ALUMINUM BLOOMS, PIG, SLAB OR INGOTS	33562	LEAD OR LEAD BASE ALLOY BASIC SHAPES EXC. SOLDER, BABBITT OR TYPE METAL SEE 33567
33342	ALUMINUM RESIDUES, ETC.	33563	NICKEL OR NICKEL BASE ALLOY BASIC SHAPES
3339	MISCELLANEOUS PRIMARY NONFERROUS METAL PRODUCTS, VIZ. ANODES, DES, BILLETS, BLOOMS, IG, SLAB OR INGOTS	33564	ZINC OR ZINC BASE ALLOY BASIC SHAPES
33391	MAGNESIUM PIG, SLAB OR INGOTS	33565	TITANIUM BASIC SHAPES
33392	MANGANESE PIG, SLAB OR INGOTS	33566	WELDING RODS, BARS OR WIRE
33393	MOLYBDENUM PIG, SLAB OR INGOTS	33567	SOLDER, BABBITT OR TYPE METAL SHAPES
33394	NICKEL PIG, SLAB OR INGOTS	33569	NONFERROUS METAL BASIC SHAPES, NEC EXC. INCLUDED IN PRIMARY INDUSTRIES SEE 33398
33395	TIN OR TIN BASE ALLOY PIG, SLAB OR INGOTS EXC. SOLDER, BABBITT OR TYPE METAL SEE 33567	3357	NONFERROUS METAL OR INSULATED WIRE EXC. COATING OR OTHER ALLIED PROCESS- ING SEE 34994
33396	TITANIUM PIG, SLAB OR INGOTS	33571	ALUMINUM OR ALUMINUM ALLOY WIRE, CABLE OR STRAND, BARE
33398	MISCELLANEOUS NONFERROUS METAL RESIDUES, SOLDER, BABBITT OR TYPE METAL RESIDUES		
33399	PRIMARY NONFERROUS METAL INGOTS, PIG OR SLAB, NEC		
335	NONFERROUS METAL BASIC SHAPES EXC. COATING OR OTHER ALLIED PROCESSING SEE 34994		
3351	BRASS, BRONZE OR COPPER BASIC OR OTHER COPPER BASE ALLOY SHAPES EXC. COATING OR OTHER ALLIED PROCESSING SEE 34994		

33572	COPPER OR COPPER BASE ALLOY WIRE, STRAND OR CABLE, BARE	33992	NONFERROUS METAL NAILS, BRADS, SPIKES OR STAPLES
33573	NONFERROUS METAL OR NONFERROUS METAL BASE ALLOY WIRE, BARE EXC. ALUMINUM SEE 33571 OR COPPER SEE 33572	33999	PRIMARY METAL PRODUCTS, NEC
33574	WIRE OR CABLE, ENAMELED OR COVERED, ALL TYPES	34	FABRICATED METAL EXC. ORDNANCE SEE 19, MACHINERY SEE 35 OR 36, OR TRANSPORTATION EQUIPMENT SEE 37
336	NONFERROUS METAL OR NONFERROUS METAL BASE ALLOY CASTINGS EXC. COATING OR OTHER ALLIED PROCESSING SEE 34994	341	METAL CANS
3361	ALUMINUM OR ALUMINUM BASE ALLOY CASTINGS EXC. COATING OR OTHER ALLIED PROCESSING SEE 34994	3411	METAL CANS
33612	ALUMINUM OR ALUMINUM BASE ALLOY CASTINGS EXC. COOK-ING UTENSILS SEE 36311	34111	METAL CANS, INCLUDING MIXED WITH CAN BOTTOMS TOPS
3362	BRASS, BRONZE, COPPER OR OTHER COPPER BASE ALLOY CASTINGS EXC. COATING OR OTHER ALLIED PROCESSING SEE 34994	342	CUTLERY, HAND TOOLS OR GENERAL HARDWARE
33621	BRASS, BRONZE, COPPER OR OTHER COPPER BASE ALLOY CASTINGS	3421	CUTLERY, OTHER THAN ELECTRICAL
3369	MISCELLANEOUS NONFERROUS METAL CASTINGS EXC. COATING OR OTHER ALLIED PROCESSING SEE 34994	34211	KITCHEN OR TABLE CUTLERY OR RELATED CUTTING APPLIANCES, OTHER THAN ELECTRICAL
33691	MAGNESIUM OR MAGNESIUM BASE ALLOY CASTINGS	34213	SCISSORS OR SHEARS, OTHER THAN ELECTRICAL
33692	ZINC OR ZINC BASE ALLOY CASTINGS	34215	RAZOR BLADES OR RAZORS, OTHER THAN ELECTRICAL
33693	LEAD, LEAD BASE ALLOY, BABBITT OR WHITE METAL CASTINGS	34219	CUTLERY, NEC, OTHER THAN ELECTRICAL
33699	NONFERROUS METAL CASTINGS, NEC.	3423	EDGE OR HAND TOOLS EXC. HAND SAWS OR SAW BLADES SEE 3425 OR MACHINE SEE 3541 OR 3542
339	MISCELLANEOUS PRIMARY METAL PRODUCTS EXC. COAT-ING OR OTHER ALLIED PROCESSING SEE 34994	34231	MECHANICS HAND SERVICE TOOLS OR LIGHT FORGED HAMMERS
3391	IRON OR STEEL FORGINGS EXC. COATING OR OTHER ALLIED PROCESSING SEE 34994	34232	EDGE TOOLS
33911	IRON OR STEEL FORGINGS	34233	FILES, RASPS OR FILE ACCESSORIES
3392	NONFERROUS METAL EXC. COATING OR OTHER ALLIED PROCESSING SEE 34994	34234	SHOVELS, SPADES, OR SCRAPERS
33921	NONFERROUS METAL	34235	HEAVY FORGED TOOLS VIZ. SLEDGES, PICKS, PICK MATTOCKS, MAULS, OR BARS
3399	PRIMARY METAL PRODUCTS, NEC EXC. COATING OR ALLIED PROCESSING SEE 34994	34236	AGRICULTURAL HAND TOOLS OR PARTS VIZ. FORKS, HOES, HUSKERS, RAKES, ROLLERS, WEEDERS, ETC. EXC. EDGED TOOLS SEE 34232, WHEELED TRANSPORTATION EQUIPMENT SEE 3799
33991	METAL POWDER, FLAKES OR PASTE	34239	HAND TOOLS, NEC EXC. SAWS OR SAW BLADES SEE 34251 OR MACHINE TOOLS SEE 35412 OR 35421
		3425	HAND SAWS OR SAW BLADES
		34251	HAND SAWS OR BLADES OR SAW ACCESSORIES
		3428	BUILDERS OR CABINET WARE OR FIREPLACE EQUIPMENT

34281	DOOR OR WINDOW HARDWARE	34334	DOMESTIC HEATING STOVES, OTHER THAN ELECTRICAL
34282	FIREPLACE EQUIPMENT, DAMPERS, IRONS OR FIRE SCREENS, HARDWARE	34335	STEEL HEATING BOILERS
34283	HINGES, HASPS OR BUTTS EXCEPT CABINET SEE 34264	34336	PARTS FOR NONELECTRIC HEATING EQUIPMENT
34284	CABINET HARDWARE, HINGES OR LOCKS	34339	HEATING EQUIPMENT, NEC, OTHER THAN ELECTRICAL
34285	HOOKS, CLAMPS, CLIPS, FASTENERS OR SHELF HARDWARE OR HANGERS EXC. OR WINDOW SEE 34281	344	FABRICATED STRUCTURAL METAL PRODUCTS
34289	BUILDERS HARDWARE, NEC	3441	FABRICATED STRUCTURAL METAL PRODUCTS
3429	MISCELLANEOUS HARDWARE EXC. BUILDERS SEE 3428	34411	FABRICATED STRUCTURAL IRON OR STEEL PRODUCTS
34291	TRANSPORTATION EQUIPMENT HARDWARE	34412	FABRICATED STRUCTURAL METAL PRODUCTS EXC. IRON OR STEEL SEE 34411
34292	FURNITURE HARDWARE OR HARDWARE FOR OFFICE OR HOUSEHOLD FURNITURE	3442	METAL OR METAL COVERED DOORS, SASH, FRAMES, MOLDING OR TRIM
34293	VACUUM OR INSULATED BOTTLES, JUGS OR CHESTS	34421	METAL DOORS OR DOOR FRAMES EXC. SCREEN AND STORM DOORS SEE 34425
34294	HOSE FITTINGS, NOZZLES, COUPLINGS OR REELS	34422	METAL WINDOW FRAMES OR SASH EXC. STORM SASH OR SCREEN AND STORM SASH 34425
34298	HARDWARE, NEC	34423	METAL MOLDING OR TRIM OR STORE FRONTS EXC. MOTOR VEHICLE BODY TRIM SEE 34613
34299	HARDWARE, NEC	34425	METAL DOOR OR WINDOW SCREENS, SCREEN OR STORM DOORS, STORM WINDOWS, COMBINATION SCREEN AND STORM DOORS OR WINDOWS, OR METAL WEATHER STRIP
343	PLUMBING FIXTURES OR HEATING APPARATUS EXC. ELECTRIC SEE 36	3443	FABRICATED PLATE (BOILER SHOP PRODUCTS)
3431	METAL SANITARY WARE, INCLUDING ENAMELED EXC. VITREOUS SANITARY WARE SEE 3261	34431	HEAT EXCHANGERS OR STEAM CONDENSERS
34311	CAST IRON SANITARY WARE, INCLUDING ENAMELED	34432	FABRICATED STEEL PLATE FOR PIPE, PENSTOCKS, TUNNEL LININGS, ETC.
34312	METAL SANITARY WARE, OTHER THAN CAST IRON, INCLUDING ENAMELED	34433	STEEL POWER BOILERS, PARTS OR ATTACHMENTS
3432	PLUMBING FIXTURE OR TRIM (BRASS GOODS)	34434	GAS CYLINDERS (PRESSURE TANKS)
34321	PLUMBING FIXTURE OR TRIM VIZ. BATH, SHOW ER, SINK OR LAVATORY FITTINGS, LAVATORY LEGS, STRAINERS, ETC. (BRASS GOODS)	34435	METAL TANKS EXC. PRESSURE SEE 34434
3433	HEATING EQUIPMENT, OTHER THAN ELECTRICAL	34439	FABRICATED PLATE PRODUCTS, NEC
34331	OIL BURNERS, RESIDENTIAL OR INDUSTRIAL	3444	SHEET METAL PRODUCTS CONTAINERS, SUCH AS BOXES, KEGS, PAILS, ETS, CRATES, ETC. SEE 34615
34332	WARM AIR FURNACES EXC. FLOOR OR WALL SEE 34339	34441	SHEET METAL ROOFING, CEILING OR SIDING
34333	CAST IRON HEATING BOILERS, RADIATORS OR TORS		

34442	SHEET METAL CULVERTS, FLUMES, IRRIGATION PIPE OR SIMILAR ARTICLES	34613	AUTOMOBILE STAMPINGS
34443	SHEET METAL CORNICES, SKYLIGHTS OR ROOF VENTILATORS	34614	METAL CLOSURES VIZ. CAPS, COVERS, BOTTOMS TOPS
34444	SHEET METAL STOVE, FURNACE OR CHIMNEY PIPE, ELBOWS, DUCTS OR	34615	METAL BOXES, BASKETS, BUCKETS, PAILS OR CRATES EXC. SHIPPING SEE 34912-34919 OR 34997
34445	SHEET METAL ROOF EQUIPMENT	34616	DISPENSERS, HOLDERS OR CONTAINERS, NAPKIN, TISSUE OR TOWEL, ETC.
34446	SHEET METAL OR METAL COVERED BINS, VATS OR TUBS	34619	METAL STAMPINGS, NEC
34447	SHEET METAL AWNINGS OR CANOPIES	348	MISCELLANEOUS FABRICATED WIRE PRODUCTS EXC. STEEL WIRE SEE 3315
34449	SHEET METAL PRODUCTS,	3481	MISCELLANEOUS FABRICATED WIRE PRODUCTS
3446	ARCHITECTURAL OR TAL METAL WORK	34812	WIRE SPRINGS
34461	ORNAMENTAL METAL WORK, LAMP POSTS, LATTICEWORK, GRILLWORK, ETC.	34813	WIRE FENCING OR FENCE POSTS OR GATES OR FITTINGS
34462	SCAFFOLDING, LADDERS OR RELATED ARTICLES	34814	WIRE CLOTH OR OTHER WIRE PRODUCTS
34464	STAIRS, STAIRCASES, BALCONIES, FIRE ESCAPES, RAILINGS, PORTABLE GANGWAYS, PLATFORMS, STAIRWAYS, ETC.	34815	WIRE CHAIN
34469	ARCHITECTURAL METAL NEC	34816	BARBED OR TWISTED WIRE
3449	MISCELLANEOUS METAL WORK	34817	WELDED WIRE FABRIC OR MESH
34492	PREFABRICATED OR METAL BUILDINGS OR PARTS	34819	FABRICATED WIRE NEC
34499	METAL CONSTRUCTION MATERIALS, N. E. C.	349	MISCELLANEOUS FABRICATED METAL PRODUCTS
345	BOLTS, NUTS, SCREWS, RIVETS, WASHERS OR OTHER INDUSTRIAL FASTENERS	3491	METAL SHIPPING VIZ. BARRELS, CANS, DRUMS, KEGS, PAILS, ETC.
3452	BOLTS, NUTS, SCREWS, RIVETS, WASHERS OR OTHER INDUSTRIAL FASTENERS	34912	STEEL SHIPPING VIZ. BARRELS, CANS, DRUMS, KEGS, PAILS, ETC.
34521	BOLTS, NUTS, SCREWS, RIVETS OR WASHERS EXC. TOGGLE OR EXPANSION SEE 34529	34913	METAL SHIPPING REELS
34529	INDUSTRIAL FASTENERS, VIZ. DOWELS, COTTER EXPANSION OR TOGGLE BOLTS, ETC.	34919	METAL SHIPPING CONTAINERS, NEC. VIZ. BARRELS, CANS, DRUMS, KEGS, ETC.
346	METAL STAMPINGS	3492	METALS SAFES OR VAULTS
3461	METAL STAMPINGS	34921	METAL SAFES OR VAULTS
34611	VITREOUS ENAMELED METAL PRODUCTS VIZ. COOKING KITCHEN UTENSILS, REFRIGERATOR PARTS, WASHING MACHINE PARTS, ETC.	3493	STEEL SPRINGS EXC. WIRE SPRINGS SEE 3481
34612	STAMPED OR SPUN COOKING OR KITCHEN HOLD UTENSILS	34931	STEEL SPRINGS EXC. WIRE SPRINGS SEE 34812
		3494	VALVES OR PIPE FITTINGS OR FABRICATED PIPE OR PIPE FITTINGS EXC. PLUMBERS BRASS GOODS OR FITTINGS SEE 3432
		34941	METAL VALVES FOR PIPING, PLUMBING OR HEATING SYSTEMS
		34942	METAL FITTINGS FOR SYSTEMS OR METAL UNIONS

34943	METAL PIPE COILS	35227	MACHINES FOR PREPARING CROPS FOR MARKET OR FOR USE
34944	FABRICATED PIPE OR PIPE FITTINGS	35228	BARN, BARNYARD OR POULTRY EQUIPMENT
3499	FABRICATED METAL PRODUCTS, NEC	35229	FARM MACHINERY OR EQUIPMENT, NEC
34991	METAL COLLAPSIBLE TUBES, INCLUDING TOOTHPASTE, COSMETICS, ETC.	3524	GARDEN TRACTORS, LAWN OR GARDEN EQUIPMENT OR SNOW BLOWERS
34992	METAL FOIL OR LEAF, OR PRODUCTS THEREFROM EXC. FOIL SANITARY FOOD CONTAINERS SEE 34996	35241	GARDEN TRACTORS, LAWN OR GARDEN EQUIPMENT OR SNOW BLOWERS
34993	METAL FURNITURE PARTS	353	CONSTRUCTION, MINING OR MATERIALS HANDLING MACHINERY OR EQUIPMENT
34994	COATING, ANODIZING, COLORING, ELECTROPLATING, ENGRAVING, PLATING OR POLISHING, ETC., OF METALS OR METAL PRODUCTS EXC. GALVANIZING SEE 33	3531	CONSTRUCTION MACHINERY EQUIPMENT
34996	FOIL SANITARY FOOD CONTAINERS	35311	CONTRACTORS OFF-HIGHWAY WHEEL TRACTORS OR TRACTORS
34997	METAL SHIPPING CONTAINERS, BOXES OR RACKS EXC. BARRELS, CANS, DRUMS, KEGS, PAILS OR REELS SEE 34912-34919	35312	RAILWAY MAINTENANCE MACHINERY, EQUIPMENT OR PARTS, VIZ. LOCOMOTIVE CRANES, RAIL LAYERS, BALLAST SPREADERS, ETC.
34998	FABRICATED METAL PRODUCTS, NEC	35313	TRACKLAYING ATTACHMENTS OR PARTS OR CONTRACTORS OFF-HIGHWAY WHEEL OR TRACKED TRACTOR ATTACHMENTS OR PARTS
34999	FABRICATED METAL PRODUCTS, NEC	35314	POWER CRANES, DRAGLINES, SHOVELS, TRACTOR SHOVEL LOADERS OR PARTS
35	MACHINERY EXC. SEE 36	35316	MIXERS, PAVER OR RELATED EQUIPMENT
351	ENGINES OR TURBINES	35318	SCRAPERS, GRADERS, ROLLERS OR OFF-HIGHWAY TRUCKS, TRAILERS OR WAGONS
3511	STEAM ENGINES, TURBINES, TURBINE GENERATOR SETS, OR PARTS	35319	CONSTRUCTION MACHINERY EQUIPMENT, NEC
35112	STEAM ENGINES, TURBINES, TURBINE GENERATOR SETS, OR PARTS	3532	MINING MACHINERY, EQUIPMENT OR PARTS EXC. OIL FIELD MACHINERY OR MENT SEE 3533
3519	MISCELLANEOUS INTERNAL COMBUSTION ENGINES	35321	UNDERGROUND MINING MACHINERY, EQUIPMENT OR PARTS
35195	OUTBOARD MOTORS OR PARTS	35322	CRUSHING, PULVERIZING OR SCREENING PLANTS OR
35199	INTERNAL COMBUSTION ENGINES, NEC EXC. MISSILE OR SPACE VEHICLE SEE 37221-37222, MOTOR VEHICLE SEE 37144	35329	MINING MACHINERY, EQUIPMENT OR PARTS, NEC EXC. OIL FIELD MACHINERY, EQUIPMENT OR PARTS SEE 35331-35339
352	FARM MACHINERY OR EQUIPMENT	3533	OIL FIELD MACHINERY OR EQUIPMENT
3522	FARM MACHINERY OR EQUIPMENT	35331	GAS OR OIL FIELD OR PRODUCTION MACHINERY, EQUIPMENT OR PARTS
35222	WHEEL TRACTORS, PARTS OR ATTACHMENTS EXC. GARDEN OR LAWN EQUIPMENT SEE 35241 OR CONTRACTORS OFF-HIGHWAY TRACTORS SEE 35311	35339	GAS OR OIL FIELD MACHINERY OR TOOLS, NEC
35223	PLANTING, SEEDING OR FERTILIZING MACHINERY OR PARTS		
35224	PLOWS, LISTERS, HARROWS, ROLLERS, PULVERIZERS, STALK CUTTERS OR PARTS		
35225	HARVESTING OR HAY ERY OR PARTS		

3534	ELEVATORS OR MOVING STAIRWAYS OR PARTS	35489	METALWORKING MACHINERY, NEC EXC. MACHINE TOOLS SEE 35412 OR 35421
35341	ELEVATORS, MOVING STAIRWAYS, EQUIPMENT OR PARTS	355	SPECIAL INDUSTRY MACHINERY EXC. METAL WORKING MACHINERY SEE 3548
3535	CONVEYORS, CONVEYING EQUIPMENT OR PARTS	3551	FOOD PRODUCTS MACHINERY
35351	CONVEYORS, CONVEYING EQUIPMENT OR PARTS EXC. FARM ELEVATORS SEE 35229 OR HOISTS SEE 35361	35511	DAIRY OR MILK PRODUCT PLANT MACHINERY OR MENT
3536	HOISTS, INDUSTRIAL OR MONORAIL SYSTEMS	35512	BAKERY MACHINERY OR EQUIPMENT
35361	HOISTS	35513	MEAT OR POULTRY PACKING PLANT MACHINERY
35362	OVERHEAD TRAVELING OR MONORAIL SYSTEMS	35514	FRUIT OR VEGETABLE CANNING OR PACKING
3537	INDUSTRIAL TRUCKS, TRACTORS, TRAILERS OR STACKERS	35515	BOTTLING MACHINERY EXC. DAIRY SEE 35511
35371	INDUSTRIAL TRUCKS, TRACTORS, TRAILERS STACKERS, OR PARTS	35516	FLOUR MILL OR GRAIN MILL MACHINERY
35373	INDUSTRIAL PALLETS, FORMS OR SKIDS, METAL EXC. WOOD AND IRON COMBINED SEE 24992	35519	FOOD PRODUCTS MACHINERY, NEC
354	METALWORKING MACHINERY EQUIPMENT	3552	TEXTILE MACHINERY, ATTACHMENTS OR PARTS
3541	MACHINE TOOLS, METAL CUTTING TYPES	35522	TEXTILE MACHINERY, ATTACHMENTS OR PARTS
35412	MACHINE TOOLS, METAL CUTTING TYPES, OR PARTS	3553	WOODWORKING MACHINERY
3542	MACHINE TOOLS, METAL FORMING TYPES	35531	WOODWORKING MACHINERY
35421	MACHINE TOOLS, METAL FORMING TYPES, OR PARTS	3554	PAPER INDUSTRIES MACHINERY
3544	SPECIAL DIES, TOOLS, DIE SETS, JIGS OR FIXTURES	35541	PAPER INDUSTRIES MACHINERY, PARTS OR
35441	SPECIAL DIES, TOOLS, DIE SETS, JIGS OR DIE OR FIXTURES, OR INDUSTRIAL MOLDS OR PATTERNS	3555	PRINTING TRADES OR EQUIPMENT
3545	MACHINE TOOL ACCESSORIES OR MEASURING DEVICES	35552	PRINTING TRADES OR EQUIPMENT EXC. PRINTERS MATRICES OR PLATES SEE 27911
35451	MACHINE TOOL ACCESSORIES OR MEASURING DEVICES	3559	MISCELLANEOUS SPECIAL INDUSTRY MACHINERY
3548	METALWORKING MACHINERY EXC. MACHINE TOOLS SEE 3541 OR 3542	35591	CHEMICAL MACHINERY OR EQUIPMENT VIZ. CHEMICAL MANUFACTURING INDUSTRIES ONLY
35481	ROLLING MILL MACHINERY EQUIPMENT	35592	FOUNDRY MACHINERY OR EQUIPMENT EXC. METAL FURNACES SEE 35671 OR INDUSTRIAL MOLDS OR PATTERNS SEE 35441
35484	AUTOMOTIVE MAINTENANCE EQUIPMENT OR AUTOMOBILE LIFTS OR RUNWAYS	35594	PLASTIC OR RUBBER MACHINERY OR EQUIPMENT EXC. INDUSTRIAL MOLDS OR PATTERNS SEE 35441
		35595	PETROLEUM REFINERY MACHINERY OR EQUIPMENT
		35596	COTTON GINNING MACHINERY OR EQUIPMENT

35597	CLAY WORKING MACHINERY VIZ. BRICK, TILE OR CERAMICS	3573	ELECTRONIC DATA PROCESSING MACHINES OR ASSOCIATED EQUIPMENT EXC. WRITERS OR PARTS SEE
35599	SPECIAL INDUSTRY MACHINERY, NEC	35731	ELECTRONIC DATA PROCESSING MACHINES OR ASSOCIATED EQUIPMENT EXC. TYPEWRITERS OR PARTS SEE 3572
356	GENERAL INDUSTRIAL MACHINERY OR EQUIPMENT	3574	ACCOUNTING OR MACHINES OR CASH REGISTERS
3561	INDUSTRIAL PUMPS OR ING EQUIPMENT OR AIR OR GAS COMPRESSORS	35741	ACCOUNTING OR MACHINES OR CASH REGIS TERS
35611	INDUSTRIAL PUMPS, EQUIPMENT OR PARTS	3576	SCALES OR BALANCES EXC. LABORATORY SEE 3811
35614	AIR OR GAS COMPRESSORS PARTS EXC. REFRIGERATION COMPRESSORS OR PARTS SEE 35854	35761	SCALES OR BALANCES EXC. LABORATORY SEE 38113
35619	INDUSTRIAL PUMPS, EQUIPMENT OR AIR OR GAS COMPRESSORS OR PARTS,	3579	MISCELLANEOUS OFFICE MACHINES
3562	BALL OR ROLLER BEARINGS	35791	ADDRESSING, DICTATING OR DUPLICATING MACHINES
35621	BALL OR ROLLER BEARINGS, COMPLETE OR MOUNTED, OR PARTS	35799	OFFICE MACHINES, NEC
3564	EXHAUST BLOWERS OR VENTILATING FANS OR FILTERS	358	SERVICE INDUSTRY
35641	INDUSTRIAL FANS OR BLOWERS	3581	AUTOMATIC MERCHANDISING MACHINES (COIN OPERATED ONLY)
35642	DUST COLLECTION OR AIR PURIFICATION EQUIPMENT AIR WASHERS OR FILTERS	35811	AUTOMATIC MERCHANDISING MACHINES (COIN OPERATED ONLY)
3566	MECHANICAL POWER TRANSMISSION EQUIPMENT EXC. BALL OR ROLLER BEARINGS SEE 3562	3582	COMMERCIAL LAUNDRY, DRY CLEANING OR PRESSING MACHINES
35661	PLAIN BEARINGS	35821	COMMERCIAL LAUNDRY MENT OR PRESSES
35669	MECHANICAL EQUIPMENT, VIZ. FOR POWER TRANSMISSION ONLY	35822	COMMERCIAL DRY-CLEANING EQUIPMENT OR CLOTHES PRESSES
3567	INDUSTRIAL PROCESS FURNACES OR OVENS	3585	REFRIGERATORS OR REFRIGERATION MACHINERY OR COMPLETE AIR UNITS EXC. HOUSEHOLD REFRIGERATORS SEE 3632
35671	INDUSTRIAL PROCESS FURNACES OR OVENS	35851	HEAT TRANSFER EQUIPMENT
3569	MISCELLANEOUS GENERAL INDUSTRIAL MACHINERY OR EQUIPMENT	35853	COMMERCIAL REFRIGERATION EQUIPMENT
35691	MISCELLANEOUS GENERAL MACHINERY OR EQUIPMENT, NEC, OR PACKAGING OR WRAPPING MACHINES EXC. FOOD SEE 35511-35119, FILTERS, STRAINERS, HYDRAULIC JACKS, CENTRIFUGALS OR SEPARATORS, EXC. CREAM SEE 35229 AND 35511, OR GAS GENERATING EQUIPMENT OR OTHER GENER-AL MACHINERY OR EQUIPMENT, NEC	35854	COMPRESSORS OR UNITS, ALL REFRIGERANTS
357	OFFICE, COMPUTING OR ACCOUNTING MACHINES	35855	CONDENSING UNITS, ALL REFRIGERANTS
3572	TYPEWRITERS OR PARTS	35856	ICE MAKING MACHINERY OR EQUIPMENT
35721	TYPEWRITERS OR PARTS	35857	AIR CONDITIONING, OR DEHUMIDIFYING EQUIPMENT
		35859	REFRIGERATORS OR REFRIGERATION MACHINERY, NEC

3589	MISCELLANEOUS SERVICE INDUSTRY MACHINES OR INDUSTRIAL VACUUM CLEANERS		FREQUENCY CHOKES, COILS OR TRANSFORMERS SEE 3679 OR RESISTOR WELDING TRANSFORMERS SEE 3623
35891	COMMERCIAL COOKING OR FOOD WARMING EQUIPMENT	36121	TRANSFORMERS OR PARTS OR FLUORESCENT BALLASTS
35892	COMMERCIAL OR INDUSTRIAL VACUUM CLEANERS, PARTS ATTACHMENTS	36123	POWER REGULATORS, BOOSTERS OR REACTORS
35899	SERVICE INDUSTRY MACHINES, NEC, WATER SOFTENERS, PURIFIERS, FLOOR WAXING, POLISHING OR SCRUBBING MACHINES, CARPET SWEEPERS, MACHINES, ETC.	36129	POWER, DISTRIBUTION OR SPECIALTY TRANSFORMERS, NEC EXC. RADIO OR VOICE FREQUENCY CHOKES, COILS OR TRANSFORMERS SEE OR RESISTOR WELDING TRANSFORMERS SEE 36231
359	MISCELLANEOUS MACHINERY OR PARTS EXC. ELECTRICAL SEE 36	3613	SWITCHGEAR OR APPARATUS EXC. CURRENT CARRYING WIRING DEVICES SEE 3643 OR INDUSTRIAL CONTROLS SEE 3622
3592	CARBURETORS, PISTONS, RINGS OR VALVES		
35921	CARBURETORS, PISTONS OR PISTON RINGS	36131	SWITCHGEAR OR SWITCHBOARD APPARATUS OR POWER SWITCHGEAR ASSEMBLIES OR OTHER SWITCHING OR INTERRUPTING DEVICES
35922	INTAKE OR EXHAUST INTERNAL COMBUSTION ENGINE	36132	CIRCUIT BREAKERS, FUSES OR FUSE EQUIPMENT
3599	MISCELLANEOUS MACHINERY OR PARTS EXC. ELECTRICAL SEE 36 OR CARBURETORS, PISTONS, RINGS OR VALVES SEE 3592	362	ELECTRICAL INDUSTRIAL APPARATUS
		3621	MOTORS OR GENERATORS
35993	FLEXIBLE METAL HOSE OR TUBING EXC. FLEXIBLE CONDUIT SEE 36442	36211	MOTORS
		36212	GENERATORS EXC. FOR LAND TRANSPORTATION SEE 36213
35994	AMUSEMENT OR CARNIVAL MACHINES OR EQUIPMENT EXC. COIN OPERATED SEE 39992	36213	LAND TRANSPORTATION MOTORS, GENERATORS OR CONTROL EQUIPMENT OR PARTS
35999	MACHINERY OR PARTS, NEC EXC. ELECTRICAL SEE 36 CARBURETORS, PISTONS, RINGS OR VALVES SEE 13592	36214	PRIME MOVER GENERATOR SETS EXC. STEAM OR HYDRAULIC TURBINE SEE 35112
36	ELECTRICAL MACHINERY, EQUIPMENT OR SUPPLIES	36215	MOTOR GENERATOR SETS, ELECTRIC
361	ELECTRICAL TRANSMISSION OR DISTRIBUTION	36216	PARTS OR SUPPLIES FOR MOTORS, GENERATORS OR MOTOR GENERATOR SETS LAND TRANSPORTATION SEE 36213
3611	ELECTRICAL MEASURING INSTRUMENTS OR TEST EQUIPMENT	36219	MOTORS OR GENERATORS,
36111	ELECTRICAL METERS, WATT-HOUR, AMPERE-HOUR, DEMAND OR OTHER ING METERS OR PARTS	3622	INDUSTRIAL CONTROLS OR PARTS
		36221	INDUSTRIAL CONTROLS OR PARTS
36112	TEST EQUIPMENT FOR TESTING ELECTRICAL OR RADIO COMMUNICATION CIRCUITS, OR MOTORS	3623	WELDING APPARATUS
		36231	ARC OR RESISTANCE MACHINES, COMPONENTS OR ACCESSORIES EXC. ELECTRODES SEE 36232
36113	INDICATING, MEASURING OR RECORDING INSTRUMENTS (ELECTRICAL QUALITIES OR CHARACTERISTICS)	36232	ARC WELDING ELECTRODES EXC. CARBON ELECTRODES SEE 36241
3612	POWER, DISTRIBUTION OR SPECIALTY TRANSFORMERS EXC. RADIO OR VOICE		

3624	CARBON OR GRAPHITE PRODUCTS FOR ELECTRICAL APPLICATION, OR CARBON ELECTRODES	3635	HOUSEHOLD VACUUM
36241	CARBON OR GRAPHITE PRODUCTS FOR ELECTRICAL APPLICATION, OR CARBON ELECTRODES	36351	HOUSEHOLD VACUUM CLEAN-ERS, PARTS OR ATTACHMENTS
3629	MISCELLANEOUS ELECTRICAL INDUSTRIAL APPARATUS	3636	SEWING MACHINES OR PARTS EXC. CASES OR CABINETS SEPARATELY SEE 2517
36291	CAPACITORS FOR USE EXC. FOR ELECTRONIC APPLICATION SEE 36791	36361	SEWING MACHINES OR PARTS EXC. CASES OR CABINETS SEPARATELY SEE 25179
36292	RECTIFYING APPARATUS OR PARTS	3639	MISCELLANEOUS HOUSEHOLD APPLIANCES
36299	ELECTRICAL INDUSTRIAL APPARATUS, NEC	36392	WATER HEATERS, ALL TYPES
363	HOUSEHOLD APPLIANCES	36393	HOUSEHOLD DISHWASHING MACHINES
3631	HOUSEHOLD COOKING EQUIPMENT, ALL TYPES EXC. SMALL COOKING APPLIANCES SEE 3634	36399	HOUSEHOLD APPLIANCES, NEC, FLOOR WAXING OR POLISHING MACHINES, FOOD DISPOSERS OR OTHER HOUSEHOLD SERVICE MACHINES
36311	HOUSEHOLD RANGES, OVENS OR SURFACE COOKING MENT, OR PARTS, ALL	364	ELECTRIC LIGHTING OR EQUIPMENT
3632	HOUSEHOLD REFRIGERATORS OR HOME OR FARM ALL TYPES	3641	ELECTRIC LAMPS (BULBS ONLY)
36321	HOUSEHOLD REFRIGERATORS OR HOME OR FARM ALL TYPES	36411	ELECTRIC LAMPS (BULBS ONLY) OR SEALED BEAM LAMPS
3633	HOUSEHOLD LAUNDRY EQUIPMENT	3642	LIGHTING FIXTURES
36331	HOUSEHOLD WASHING MACHINES OR DRYERS OR WASHER-DRYER OR PARTS	36421	ELECTRIC FIXTURES, RESIDENTIAL, COMMERCIAL, INSTITUTIONAL OR INDUSTRIAL TYPE
36332	OTHER HOUSEHOLD LAUNDRY EQUIPMENT, IRONING MACHINES, WRINGERS, OR PARTS	36424	VEHICULAR LIGHTING MENT, ELECTRICAL
3634	ELECTRIC HOUSEWARES OR FANS	36425	OUTDOOR, AREA OR FLOOD LIGHTING EQUIPMENT, ALL TYPES
36341	ELECTRIC FANS EXC. ATTIC FANS, OR COMMERCIAL OR INDUSTRIAL EXHAUST OR VENTILATING FANS OR ERS SEE 35641	36429	LIGHTING FIXTURES OR PARTS, NEC, FLASHLIGHTS, LANTERNS, MINERS LIGHTS, EMERGENCY WARNING MERCURY OR SODIUM VAPOR LIGHTING OR RELATED EQUIPMENT
36343	SMALL ELECTRIC COOKING HEATING APPLIANCES EXC. WATER HEATERS SEE 36392	3643	CURRENT CARRYING WIRE DEVICES OR LIGHTNING
36346	SMALL HOUSEHOLD ELECTRIC APPLIANCES, ATTACHMENTS OR PARTS EXC. COOKING OR HEATING APPLIANCES SEE 36343 OR FANS SEE 36341	36432	CONVENIENCE OR POWER OUTLETS OR SOCKETS
36347	PERSONAL ELECTRIC APPLIANCES, ATTACHMENTS OR PARTS, VIZ. DRY SHAVERS, MANICURE SETS, PORTABLE HAIRDRYERS, RAZORS, BRUSHES, ETC.	36433	SWITCHES EXC. KNIFE, TIME, SOLENOID OR AUTOMOTIVE SEE 36131
36349	ELECTRIC HOUSEWARES, ELECTRIC CAN OPENERS, KNIFE SHARPENERS, VAPORIZERS, ETC.	36434	LIGHTNING RODS
		36435	OVERHEAD TROLLEY LINE MATERIAL EXC. POLES, OR CABLE, POLE LINE WARE, EXPANSION SHELLS PLUGS FOR ROOF BOLTING MINES SEE 36441
		36439	CURRENT CARRYING WIRE DEVICES, NEC

3644	NONCURRENT CARRYING WIRING DEVICES	3691	STORAGE BATTERIES OR PLATES
36441	POLE LINE OR HARDWARE	36911	STORAGE BATTERIES OR PLATES
36442	ELECTRIC OR FLEXIBLE CONDUITS OR CONDUIT FITTINGS	3692	PRIMARY BATTERIES (DRY WET)
36449	NONCURRENT CARRYING WIRING DEVICES, NEC	36921	PRIMARY BATTERIES (DRY WET)
365	RADIO OR TELEVISION RECEIVING SETS EXC. COMMUNICATION TYPES SEE 366	3693	RADIOGRAPHIC X-RAY, FLUOROSCOPIC X-RAY, THERAPEUTIC X-RAY OR OTHER X-RAY APPARATUS, OR X-RAY TUBES
3651	RADIO OR TELEVISION RECEIVING SETS EXC. COMMUNICATION TYPES SEE 3662	36931	RADIOGRAPHIC X-RAY, FLUOROSCOPIC X-RAY, THERAPEUTIC X-RAY OR OTHER X-RAY APPARATUS, OR X-RAY TUBES
36511	HOUSEHOLD OR AUTOMOTIVE RADIOS OR COMBINATIONS	3694	ELECTRICAL EQUIPMENT FOR INTERNAL COMBUSTION ENGINES
36512	HOUSEHOLD TELEVISION RECEIVERS OR TELEVISION COMBINATIONS	36941	ELECTRICAL EQUIPMENT FOR INTERNAL COMBUSTION ENGINES
3652	PHONOGRAPH RECORDS	3699	ELECTRICAL MACHINERY, EQUIPMENT OR SUPPLIES, NEC
36521	PHONOGRAPH RECORDS, RECORD BLANKS OR RECORDED TAPES	36999	ELECTRICAL MACHINERY, EQUIPMENT OR SUPPLIES, NEC, OR LAMP BULB COMPONENTS, EXC. GLASS BLANKS SEE 32292
366	COMMUNICATION EQUIPMENT	37	TRANSPORTATION EQUIPMENT
3661	TELEPHONE OR TELEGRAPH EQUIPMENT	371	MOTOR VEHICLES OR EQUIPMENT
36611	TELEPHONE SWITCHING OR SWITCHBOARD EQUIPMENT	3711	MOTOR VEHICLES
36612	TELEPHONE OR TELEGRAPH EQUIPMENT EXC. SWITCHING OR SWITCHBOARD EQUIPMENT SEE 36611	37111	MOTOR PASSENGER OR AIR CARS, ASSEMBLED
3662	RADIO OR TELEVISION TRANSMITTING EQUIPMENT OR APPARATUS, OR SIGNALING OR DETECTION EQUIPMENT OR APPARATUS	37112	MOTOR TRUCKS OR TRUCK TRACTORS, ASSEMBLED
36621	RADIO, TELEVISION TRANSMITTING, SIGNALING OR DETECTION EQUIPMENT OR APPARATUS	37113	MOTOR COACHES, TROLLEY BUSES OR FIRE VEHICLES, ASSEMBLED EXC. CHEMICAL FIRE ING EQUIPMENT OR PARTS SEE 39991
367	ELECTRONIC COMPONENTS OR ACCESSORIES	37114	MOTOR COMBAT VEHICLES EXC. TRACKED SEE 9313
3671	ELECTRONIC TUBES EXC. X-RAY TUBES SEE 3693	37115	MOTOR PASSENGER CARS OR CAR CHASSIS, KNOCKED
36711	ELECTRONIC TUBES EXC. X-RAY TUBES SEE 36931	37116	MOTOR BUSES, TRUCKS, MOTOR COACHES, FIRE DEPARTMENT VEHICLES OR TRUCK TRACTORS, OR CHAS SIS, KNOCKED DOWN
3674	SOLID STATE DEVICES	37119	MOTOR VEHICLES, NEC, OR GOLF CARTS
36741	SOLID STATE DEVICES, DIODES, TORS OR CELLS	3712	PASSENGER MOTOR CAR BODIES
3679	MISCELLANEOUS ELECTRONIC	37121	PASSENGER MOTOR CAR BODIES
36791	MISCELLANEOUS ELECTRONIC COMPONENTS OR	3713	MOTOR BUS OR TRUCK
369	MISCELLANEOUS ELECTRICAL MACHINERY, EQUIPMENT OR SUPPLIES	37131	MOTOR TRUCK BODIES
		37132	MOTOR BUS BODIES

3714	MOTOR VEHICLE PARTS OR ACCESSORIES	37324	CAR FLOATS, PONTOON OR PORTABLE BRIDGES
37142	MOTOR VEHICLE	37329	SHIPS, BOATS OR PARTS, NEC
37143	MOTOR VEHICLE FRAMES	374	RAILROAD EQUIPMENT
37144	MOTOR CAR INTERNAL COMBUSTION ENGINES OR PARTS EXC. AIRCRAFT OR MISSILE ENGINES OR PARTS SEE 37221-37222 OR OTHER THAN MOTOR VEHICLE INTERNAL COMBUSTION ENGINES OR PARTS SEE 35195-35199	3741	LOCOMOTIVES OR PARTS
37145	MOTOR VEHICLE BRAKES OR PARTS	37411	LOCOMOTIVES OR TENDERS
37146	MOTOR VEHICLE STEERING GEARS OR PARTS	37413	PARTS FOR LOCOMOTIVES, ALL TYPES
37147	MOTOR VEHICLE BODY PARTS	3742	RAILROAD OR STREET CARS EXC. RAILWAY MAINTENANCE MACHINERY, EQUIPMENT OR PARTS SEE 3531
37148	MOTOR VEHICLE WHEELS OR PARTS	37421	PASSENGER TRAIN CARS
37149	MOTOR VEHICLE OR PARTS, NEC, INCLUDING MIXED LOADS	37422	FREIGHT TRAIN CARS
3715	TRUCK TRAILERS	37423	STREET CARS OR SELF-PROPELLED RAILROAD CARS
37151	TRUCK TRAILERS	37424	MAINTENANCE OR REPAIR CARS VIZ. WEED BURNERS, INSPECTION, ETC.
372	AIRCRAFT OR PARTS	37426	RAILROAD CAR WHEELS
3721	AIRCRAFT EXC. GUIDED MISSILES, ASSEMBLED, SEE 1925	37428	PARTS OR ACCESSORIES FOR RAILROAD OR STREET CARS EXC. WHEELS SEE 37426
37211	COMPLETE MILITARY AIRCRAFT	37429	PARTS OR ACCESSORIES FOR RAILROAD OR STREET CARS EXC. WHEELS SEE 37426
37213	COMPLETE COMMERCIAL, PERSONAL OR UTILITY TYPE TRANSPORT AIRCRAFT (PASSENGER OR CARGO)	375	MOTORCYCLES, BICYCLES OR PARTS
3722	AIRCRAFT, MISSILE OR SPACE VEHICLE ENGINES OR PARTS	3751	MOTORCYCLES, BICYCLES OR PARTS EXC. VELOCIPEDES, TRICYCLES OR PARTS SEE 3943
37221	AIRCRAFT ENGINES OR	37511	MOTORBIKES, MOTORCYCLES, MOTORSCOOTERS OR BODIES, CHASSIS OR SIDE CARS
37222	MISSILE OR SPACE VEHICLE ENGINES OR PARTS	37512	BICYCLES
3723	AIRCRAFT PROPELLERS OR PROPELLER PARTS	37513	PARTS OR ACCESSORIES, BICYCLE, MOTORBIKE, MOTORCYCLE OR MOTORSCOOTER
37231	AIRCRAFT PROPELLERS OR PARTS	376	GUIDED MISSILE OR SPACE VEHICLE PARTS, NEC, OR AUXILIARY EQUIPMENT
3729	MISCELLANEOUS AIRCRAFT PARTS OR EQUIPMENT, NEC	3769	GUIDED MISSILE OR SPACE VEHICLE PARTS, NEC, OR AUXILIARY EQUIPMENT
37299	AIRCRAFT PARTS, NEC, OR AUXILIARY EQUIPMENT, NEC	37691	GUIDED MISSILE OR SPACE VEHICLE PARTS, NEC, OR AUXILIARY EQUIPMENT
373	SHIPS OR BOATS	379	MISCELLANEOUS TION EQUIPMENT
3732	SHIPS OR BOATS	3791	TRAILER COACHES
37321	INBOARD MOTOR BOATS	37911	TRAILER COACHES, HOUSING TYPE
37322	OUTBOARD MOTOR BOATS	37912	TRAVEL TRAILERS OR CAMPERS
37323	NONPROPELLED SHIPS ES OR DREDGES)	3799	TRANSPORTATION NEC

37992	HORSE-DRAWN OR SIMILAR VEHICLES EXC. SLEIGHS OR SLEDS SEE 37995	3841	SURGICAL OR MEDICAL INSTRUMENTS OR APPARATUS
37993	HAND CARTS, WAGONS, WHEELBARROWS, OR PARTS	38411	SURGICAL OR MEDICAL INSTRUMENTS OR APPARATUS
37994	HORSE-DRAWN OR SIMILAR VEHICLE PARTS EXC. OR SLED PARTS SEE 37995	38412	HOSPITAL, DENTAL, OPTICIANS OR OPERATING ROOM FURNITURE EXC. HOSPITAL BEDS SEE 25991
37995	SLEIGHS, SLEDS OR PARTS, HORSE- DRAWN	3842	ORTHOPEDIC, PROSTHETIC SURGICAL SUPPLIES OR APPLIANCES
37999	TRANSPORTATION PARTS OR ACCESSORIES, EXC. INDUSTRIAL TRUCKS, TRACTORS, TRAILERS OR STACKERS OR PARTS SEE 35371 OR 35372	38421	ORTHOPEDIC, PROSTHETIC SURGICAL SUPPLIES OR APPLIANCES
38	INSTRUMENTS, GOODS, OPTICAL GOODS, WATCHES OR CLOCKS	3843	DENTAL EQUIPMENT OR SUPPLIES
381	ENGINEERING, LABORATORY OR SCIENTIFIC	38431	DENTAL INSTRUMENTS, SUPPLIES OR EQUIPMENT
3811	ENGINEERING, LABORATORY OR SCIENTIFIC	385	OPHTHALMIC OR OPTICIANS GOODS
38111	AIRCRAFT FLIGHT, OR NAVIGATIONAL INSTRUMENTS, OR AUTOMATIC PILOTS	3851	OPHTHALMIC OR OPTICIANS GOODS
38112	SURVEYING OR DRAFTING INSTRUMENTS	38511	SPECTACLES, EYEGLASSES, SUNGLASSES OR RELATED OPHTHALMIC OR OPTICIANS GOODS EXC. OPTICAL INSTRUMENTS OR LENSES SEE 38311
38113	LABORATORY OR SCIENTIFIC INSTRUMENTS, OR RY FURNITURE	386	PHOTOGRAPHIC EQUIPMENT SUPPLIES
38119	ENGINEERING, LABORATORY OR SCIENTIFIC INSTRUMENTS, NEC	3861	PHOTOGRAPHIC EQUIPMENT SUPPLIES
382	MEASURING, CONTROLLING INDICATING INSTRUMENTS	38612	PHOTOGRAPHIC DEVELOPING, PHOTOCOPY, MICROFILMING, BLUEPRINTING, VAN DYKE WHITE PRINTING EQUIPMENT
3821	MECHANICAL MEASURING OR CONTROLLING INSTRUMENTS EXC. AUTOMATIC TEMPERATURE CONTROLS SEE 3822	38613	STILL OR MOTION PICTURE EQUIPMENT, FILM OR PARTS
38212	GAS, WATER OR OTHER LIQUID METERS OR RECORDING DEVICES	38615	PHOTOGRAPHIC SENSITIZED FILM, PLATES, PHOTOGRAPH-IC PAPER OR CLOTH
38213	WEATHER MEASURING INSTRUMENTS OR GAUGES	38618	PREPARED PHOTOGRAPHIC CHEMICALS
38219	MECHANICAL MEASURING OR CONTROLLING INSTRUMENTS, NEC	38619	PHOTOGRAPHIC EQUIPMENT SUPPLIES, NEC
3822	AUTOMATIC TEMPERATURE CONTROLS	387	WATCHES, CLOCKS, CLOCK-WORK OPERATED DEVICES, PARTS
38221	AUTOMATIC TEMPERATURE CONTROLS	3871	WATCHES, CLOCKS, CLOCK-WORK OPERATED DEVICES, PARTS
383	OPTICAL INSTRUMENTS OR LENSES	38711	WATCHES, CLOCKS, CLOCK-WORK OPERATED DEVICES, PARTS
3831	OPTICAL INSTRUMENTS OR LENSES	39	MISCELLANEOUS PRODUCTS
38311	OPTICAL INSTRUMENTS, LENSES, RANGE OR HEIGHT FINDERS EXC. SIGHT OR FIRE CONTROL EQUIPMENT SEE 19411	391	MANUFACTURING JEWELRY, SILVERWARE OR PLATED WARE
384	SURGICAL, MEDICAL OR DENTAL INSTRUMENTS OR SUPPLIES	3914	SILVERWARE OR PLATED
		39141	SILVERWARE, PLATED WARE, STAINLESS STEEL WARE OR FLATWARE

393	MUSICAL INSTRUMENTS OR PARTS	3952	PENCILS, CRAYONS, OR ARTISTS MATERIALS
3931	MUSICAL INSTRUMENTS OR PARTS	39521	PENCILS OR CRAYONS
39311	PIANOS	39522	ARTISTS MATERIALS
39312	ORGANS	3953	MARKING DEVICES
39313	PIANO OR ORGAN PARTS	39531	MARKING DEVICES
39319	MUSICAL INSTRUMENTS, ACCESSORIES OR PARTS INSTRUMENT BENCHES SEE 25112 OR INSTRUMENT SEE 31611	3955	CARBON PAPER OR INKED RIBBONS
394	TOYS, AMUSEMENT, OR ATHLETIC GOODS	39551	CARBON OR STENCIL PAPER OR INK RIBBONS
3941	GAMES OR TOYS EXC. DOLLS OR STUFFED TOY ANIMALS SEE 3942, CHILDRENS VEHICLES SEE 3943	396	COSTUME JEWELRY, NOVELTIES OR NOTIONS
39411	GAMES OR TOYS EXC. DOLLS OR STUFFED TOY ANIMALS SEE 39421, CHILDRENS VEHICLES SEE 39431-39439	3961	COSTUME JEWELRY OR TIES EXC. PRECIOUS METAL SEE 3911
3942	DOLLS OR STUFFED TOY ANIMALS	39611	COSTUME JEWELRY OR TIES EXC. PRECIOUS METAL SEE 39111
39421	DOLLS OR STUFFED TOY ANIMALS	3962	FEATHERS, PLUMES OR ARTIFICIAL OR DECORATIVE FLOWERS OR FRUITS EXC. GLASS SEE 3229
3943	CHILDRENS VEHICLES OR PARTS, NEC EXC. BICYCLES OR MOTORCYCLES, OR PARTS SEE 3751	39621	FEATHERS, PLUMES OR ARTIFICIAL, DECORATIVE OR PRESERVED FLOWERS OR FRUITS EXC. GLASS SEE 32299, DECORATIVE EVER- GREENS, HOLLY OR MISTLE- TOE, OR FERNS, OR LIVE CHRISTMAS TREES SEE 08611-08613
39431	BABY OR DOLL CARRIAGES, STROLLERS OR WALKERS	3963	BUTTONS
39439	CHILDRENS VEHICLES OR PARTS, NEC EXC. BICYCLES OR MOTORCYCLES, OR PARTS SEE 37511-37513	39631	BUTTONS OR PARTS EXC. PRECIOUS OR METALS OR PRECIOUS OR SEMI-PRECIOUS STONES
3949	SPORTING OR ATHLETIC GOODS	3964	NEEDLES, PINS, HOOKS, EYES OR SIMILAR NOTIONS
39491	FISHING TACKLE, EQUIPMENT OR PARTS	39641	ZIPPERS OR SLIDE FASTENERS
39492	BILLIARD OR POOL TABLES, PLAYING SUPPLIES, BALLS, CUE OR PARTS	39642	NEEDLES, PINS, FASTENERS OR SIMILAR NOTIONS EXC. SLIDE FASTENERS SEE 39641
39493	BOWLING ALLEYS, BALLS, SUPPLIES, OR PARTS	399	MISCELLANEOUS MANUFACTURED PRODUCTS
39494	GOLF CLUBS, BALLS, EQUIPMENT, SUPPLIES OR PARTS	3991	BROOMS OR BRUSHES FOR CARPET SWEEPERS, VACUUM CLEANERS OR OTHER ROTARY MACHINES, OR PAINT ROLLERS
39496	TENNIS, BADMINTON, BASEBALL, CRICKET, SOFTBALL, FOOTBALL, BASKETBALL, SOCCER OR HOCKEY EQUIPMENT, SUPPLIES, PARTS, BALLS	39911	BROOMS OR BRUSHES FOR CARPET SWEEPERS, VACUUM CLEANERS OR OTHER ROTARY MACHINES, OR PAINT ROLLERS
39497	PLAYGROUND OR GYMNASIUM EQUIPMENT OR PARTS	3992	COVERINGS, FACING OR FLOORING
39499	SPORTING OR ATHLETIC GOODS OR PARTS, NEC	39921	COVERINGS, FACING OR FLOORING
395	PENS, PENCILS, OR OTHER OFFICE MATERIALS, OR ARTISTS MATERIALS	3993	SIGNS OR ADVERTISING DISPLAYS
3951	PENS OR PARTS		
39511	PENS OR PARTS		

39931	LUMINOUS TUBING OR BULB SIGNS	40214	ALUMINUM OR ALLOY SCRAP, TAILINGS OR WASTES
39932	NONELECTRIC ADVERTISING SIGNS, DISPLAYS OR TIES EXC. ROAD OR SIGNS SEE 39934 OR PAPER OR PAPERBOARD DISPLAYS OR NOVELTIES SEE 26499	40219	NONFERROUS METAL OR SCRAP, TAILINGS OR WASTES, NEC
39934	NONELECTRIC ROAD OR FIC SIGNS	4022	TEXTILE WASTE, SCRAP OR SWEEPINGS
3994	MORTICIANS GOODS	40221	TEXTILE WASTE, SCRAP OR SWEEPINGS
39941	MORTICIANS GOODS	4023	WOOD SCRAP OR WASTE
3996	MATCHES	40231	WOOD SCRAP OR WASTE
39961	MATCHES	4024	PAPER WASTE OR SCRAP
3997	FURS, DRESSED OR DYED	40241	PAPER WASTE OR SCRAP
39971	FURS, DRESSED OR DYED	4025	CHEMICAL OR PETROLEUM WASTE, INCLUDING SPENT
3999	MANUFACTURED PRODUCTS, NEC	40251	CHEMICAL OR PETROLEUM WASTE, INCLUDING SPENT
39991	CHEMICAL FIRE ING EQUIPMENT OR PARTS	4026	RUBBER OR PLASTIC SCRAP OR WASTE
39992	COIN OPERATED AMUSEMENT OR SERVICE MACHINES	40261	RUBBER OR PLASTIC SCRAP OR WASTE
39993	BEAUTY OR BARBER SHOP FURNITURE OR EQUIPMENT	4027	STONE, CLAY OR GLASS WASTE OR SCRAP
39994	HAIR WORK, VIZ. BRAIDS, NETS, SWITCHES, TOUPEES, WIGS, ETC.	40271	STONE, CLAY OR GLASS WASTE OR SCRAP
39995	TOBACCO PIPES, CIGARETTE HOLDERS, ACCESSORIES OR PARTS	4028	LEATHER WASTE OR SCRAP
39996	CHRISTMAS TREE OR DECORATIONS EXC. CHRISTMAS TREE BULBS OR SETS SEE 36999	40281	LEATHER WASTE OR SCRAP
39998	MISCELLANEOUS MANUFACTURED PRODUCTS, NEC	4029	MISCELLANEOUS WASTE OR SCRAP
39999	MISCELLANEOUS MANUFACTURED PRODUCTS, NEC	40291	WASTE OR SCRAP, NEC
40	WASTE OR SCRAP MATERIALS NOT IDENTIFIED BY PRODUCING INDUSTRY	41	MISCELLANEOUS FREIGHT SHIPMENTS
401	ASHES	411	MISCELLANEOUS FREIGHT SHIPMENTS
4011	ASHES	4111	MISCELLANEOUS FREIGHT SHIPMENTS
40112	ASHES	41111	OUTFITS OR KITS
402	WASTE OR SCRAP EXC. SEE 401	41112	USED PLANT OR OFFICE EQUIPMENT, RECORDS OR SUPPLIES
4021	METAL SCRAP, WASTES OR TAILINGS	41113	RAILWAY CARS, OTHER THAN NEW
40211	IRON OR STEEL SCRAP, WASTES OR TAILINGS	41114	ARTICLES, USED EXC. FOR REPAIR OR RECONDITIONING SEE 41115, RETURNED EMPTY SEE 4211142112 OR REMELTING SEE 4021 OR 4029
40212	BRASS, BRONZE, COPPER OR ALLOY SCRAP, TAILINGS OR WASTES	41115	ARTICLES, USED, RETURNED FOR REPAIR OR RECONDITIONING
40213	LEAD, ZINC OR ALLOY SCRAP, TAILINGS OR	41116	HOUSEHOLD GOODS OR EMIGRANT MOVABLES
		41117	MILITARY IMPEDIMENTA
		41118	USED VEHICLES

41119	MISCELLANEOUS FREIGHT SHIPMENTS, NEC		RETURN- ING IN REVERSE OF ROUTE USED IN LOADED MOVEMENT, AND SO CERTIFIED
412	SPECIAL COMMODITIES NOT TAKEN IN REGULAR FREIGHT SERVICE	42312	REVENUE MOVEMENT OF PIPING DEVICES, CONSISTING OF BLOCKING, BOLSTERS, CRADLES, PALLETS, RACKS, SKIDS, ETC. , EMPTY,
4121	SPECIAL COMMODITIES NOT TAKEN IN REGULAR FREIGHT SERVICE		
41211	SPECIAL COMMODITIES NOT TAKEN IN REGULAR FREIGHT SERVICE	43	MAIL, EXPRESS OR OTHER CONTRACT TRAFFIC
42	CONTAINERS, CARRIERS OR DEVICES, SHIPPING, RETURNED EMPTY	431	MAIL AND EXPRESS TRAFFIC
421	NONREVENUE MOVEMENT OF CONTAINERS, CARRIERS OR DEVICES, SHIPPING, RETURNING IN REVERSE OF ROUTE USED IN LOADED MOVEMENT, AND SO CERTIFIED	4311	MAIL AND EXPRESS TRAFFIC
		43111	MAIL
		43115	EXPRESS
		432	OTHER CONTRACT TRAFFIC
4211	NONREVENUE MOVEMENT OF CONTAINERS, CARRIERS OR DEVICES, SHIPPING, RETURNING IN REVERSE OF ROUTE USED IN LOADED MOVEMENT, AND SO CERTIFIED	4321	OTHER CONTRACT TRAFFIC
		43211	TRAILER TRAIN CONTRACT TRAFFIC
		44	FREIGHT FORWARDER
42111	NONREVENUE MOVEMENT OF CONTAINERS, BAGS, BARRELS, BOTTLES, BOXES, CRATES, CORES, DRUMS, KEGS, REELS, TUBES, OR CARRIERS, NEC, EMPTY, RETURNING IN REVERSE OF ROUTE USED IN LOADED MOVEMENT, AND SO CERTIFIED	441	FREIGHT FORWARDER
		4411	FREIGHT FORWARDER
		44111	FREIGHT FORWARDER
		45	SHIPPER ASSOCIATION OR SIMILAR TRAFFIC
42112	NONREVENUE MOVEMENT OF SHIPPING DEVICES, CONSISTING OF BLOCKING, BOLSTERS, CRADLES, PALLETS, RACKS, SKIDS, ETC, EMPTY RETURNING IN REVERSE OF ROUTE USED IN LOADED MOVEMENT, AND SO CERTIFIED	451	SHIPPER ASSOCIATION OR SIMILAR TRAFFIC
		4511	SHIPPER ASSOCIATION OR SIMILAR TRAFFIC
		45111	SHIPPER ASSOCIATION OR SIMILAR TRAFFIC
42113	NONREVENUE REJECTED SHIPMENTS		
422	TRAILERS, RETURNED EMPTY	46	MISCELLANEOUS MIXED SHIPMENTS
4221	TRAILERS, RETURNED EMPTY	461	MISCELLANEOUS MIXED SHIPMENTS EXC. FORWARDER SEE 441, OR SHIPPER ASSOCIATION SEE 451
42211	TRAILERS, SEMI-TRAILERS, OR CONTAINERS, RETURNED EMPTY	4611	FREIGHT ALL KINDS, FAK
423	REVENUE MOVEMENT OF CONTAINERS, CARRIERS OR DEVICES, SHIPPING, RETURNING IN REVERSE OF ROUTE USED IN LOADED MOVEMENT, AND SO CERTIFIED	46111	ALL FREIGHT RATE SHIPMENTS, NEC, OR TRAIL- ER-ON-FLAT-CAR (TOFC) SHIPMENTS EXC. WHERE IDENTIFIED BY COMMODITIES, THEN CODE BY COMMODITY
4231	REVENUE MOVEMENT OF CONTAINERS, CARRIERS OR DEVICES, SHIPPING, RETURNING IN REVERSE OF ROUTE USED IN LOADED MOVEMENT, AND SO CERTIFIED	462	MIXED SHIPMENTS, 2 OR MORE MAJOR GROUPS VIZ. COMMODITIES REPRESENTING TWO OR MORE MAJOR STCC GROUPS, WHERE IT IS IMPOSSIBLE TO DETERMINE THE PREDOMINANT GROUP, FOR EXAMPLE, FURNITURE, MAJOR 25 AND BICYCLES, MAJOR 37, MIXED
42311	REVENUE MOVEMENT OF CONTAINERS, BAGS, BARRELS, BOTTLES, BOXES, CRATES, CORES, DRUMS, KEGS, REELS, TUBES, OR CARRIERS, NEC, EMPTY,		

4621	MIXED SHIPMENTS, 2 OR MORE MAJOR GROUPS VIZ. COMMODITIES REPRESENTING TWO OR MORE MAJOR STCC GROUPS, WHERE IT IS IM- POSSIBLE TO DETERMINE THE PREDOMINANT GROUP, FOR EXAMPLE, FURNITURE, MAJOR 25 AND BICYCLES, MAJOR 37, MIXED	48081	WASTE FLAMMABLE LIQUIDS
		48082	WASTE FLAMMABLE LIQUIDS
		4809	WASTE FLAMMABLE LIQUIDS
		48091	WASTE FLAMMABLE LIQUIDS
		48092	WASTE FLAMMABLE LIQUIDS
46211	MIXED SHIPMENTS, 2 OR MORE MAJOR GROUPS VIZ. COMMODITIES REPRESENTING TWO OR MORE MAJOR STCC GROUPS, WHERE IT IS IM- POSSIBLE TO DETERMINE THE PREDOMINANT GROUP, FOR EXAMPLE, FURNITURE, MAJOR25 AND BICYCLES, MAJOR 37, MIXED	48093	WASTE FLAMMABLE LIQUIDS
		4810	WASTE FLAMMABLE LIQUIDS, MISCELLANEOUS
		48101	WASTE FLAMMABLE LIQUIDS, MISCELLANEOUS
		48102	WASTE FLAMMABLE LIQUIDS, MISCELLANEOUS
47	SMALL PACKAGED FREIGHT SHIPMENTS	48103	WASTE FLAMMABLE LIQUIDS, MISCELLANEOUS
471	SMALL PACKAGED FREIGHT SHIPMENTS		
4711	SMALL PACKAGED FREIGHT SHIPMENTS	48105	WASTE FLAMMABLE LIQUIDS, MISCELLANEOUS
47111	SMALL PACKAGED FREIGHT SHIPMENTS VIZ. LESS THAN CARLOAD, TRUCKLOAD, ETC.	4813	WASTE COMBUSTIBLE
		48131	WASTE COMBUSTIBLE
48	WASTE HAZARDOUS OR WASTE HAZARDOUS SUBSTANCES	4815	WASTE COMBUSTIBLE
4804	WASTE NONFLAMMABLE COMPRESSED GASES	48151	WASTE COMBUSTIBLE
48041	WASTE NONFLAMMABLE COMPRESSED GASES	48152	WASTE COMBUSTIBLE
48045	WASTE NONFLAMMABLE COMPRESSED GASES	48153	WASTE COMBUSTIBLE
		48155	WASTE COMBUSTIBLE
4805	WASTE FLAMMABLE COMPRESSED GASES	4816	WASTE FLAMMABLE SOLIDS
48057	WASTE FLAMMABLE COMPRESSED GASES	48161	WASTE FLAMMABLE SOLIDS SPONTANEOUSLY OR DANGEROUS WHEN WET
48058	WASTE FLAMMABLE COMPRESSED GASES	48162	WASTE FLAMMABLE SOLIDS SPONTANEOUSLY OR DANGEROUS WHEN WET
4806	WASTE FLAMMABLE LIQUIDS	48163	WASTE FLAMMABLE SOLIDS SPONTANEOUSLY OR DANGEROUS WHEN WET
48066	WASTE FLAMMABLE LIQUIDS THERMALLY UNSTABLE AND CORROSIVE	48164	WASTE FLAMMABLE SOLIDS SPONTANEOUSLY OR DANGEROUS WHEN WET
4807	WASTE FLAMMABLE LIQUIDS		
48072	WASTE FLAMMABLE LIQUIDS POLYMERIZABLE	48166	WASTE FLAMMABLE SOLIDS SPONTANEOUSLY OR DANGEROUS WHEN WET
48074	WASTE FLAMMABLE LIQUIDS POISONOUS	48167	WASTE FLAMMABLE SOLIDS SPONTANEOUSLY OR DANGEROUS WHEN WET
48078	WASTE FLAMMABLE LIQUIDS CORROSIVE, BASIC		
4808	WASTE FLAMMABLE LIQUIDS	4817	WASTE FLAMMABLE SOLIDS

48171	WASTE FLAMMABLE SOLIDS SPONTANEOUSLY OR DANGEROUS WHEN WET	48302	WASTE CORROSIVE MATERIALS, ACIDIC
48173	WASTE FLAMMABLE SOLIDS SPONTANEOUSLY OR DANGEROUS WHEN WET	4831	WASTE CORROSIVE
4818	WASTE OXIDIZING	48313	WASTE CORROSIVE
48181	WASTE OXIDIZING	48314	WASTE CORROSIVE
48183	WASTE OXIDIZING	48317	WASTE CORROSIVE
48185	WASTE OXIDIZING	4832	WASTE CORROSIVE
48187	WASTE OXIDIZING	48323	WASTE CORROSIVE
4821	WASTE POISONOUS	4833	WASTE CORROSIVE
48212	WASTE POISONOUS	48330	WASTE CORROSIVE
48214	WASTE POISONOUS	48333	WASTE CORROSIVE
48215	WASTE POISONOUS	4834	WASTE CORROSIVE
4823	WASTE POISONOUS	48342	WASTE CORROSIVE
48231	WASTE POISONOUS	4835	WASTE CORROSIVE
48232	WASTE POISONOUS	48350	WASTE CORROSIVE
48233	WASTE POISONOUS	48352	WASTE CORROSIVE
48234	WASTE POISONOUS	48355	WASTE CORROSIVE
48235	WASTE POISONOUS	48356	WASTE CORROSIVE
4825	WASTE INFECTIOUS SUBSTANCES	4836	WASTE CORROSIVE
48259	WASTE INFECTIOUS SUBSTANCES	48360	WASTE CORROSIVE
4826	WASTE RADIOACTIVE MATERIALS	48363	WASTE CORROSIVE
48262	WASTE RADIOACTIVE MATERIALS	48365	WASTE CORROSIVE
48263	WASTE RADIOACTIVE MATERIALS	4840	WASTE MISCELLANEOUS HAZARDOUS MATERIALS
4827	WASTE RADIOACTIVE MATERIALS	48403	WASTE MISCELLANEOUS HAZARDOUS MATERIALS
48272	WASTE RADIOACTIVE MATERIALS	4841	WASTE MISCELLANEOUS HAZARDOUS MATERIALS
48274	WASTE RADIOACTIVE MATERIALS	48411	WASTE MISCELLANEOUS HAZARDOUS MATERIALS
48277	WASTE RADIOACTIVE MATERIALS, EMPTY CONTAINERS	48412	WASTE MISCELLANEOUS HAZARDOUS MATERIALS
4828	WASTE RADIOACTIVE MATERIALS	4844	WASTE MISCELLANEOUS HAZARDOUS MATERIALS
48281	WASTE RADIOACTIVE MATERIALS	48441	WASTE MISCELLANEOUS HAZARDOUS MATERIALS
48282	WASTE RADIOACTIVE MATERIALS	48443	WASTE MISCELLANEOUS HAZARDOUS MATERIALS
4829	WASTE RADIOACTIVE MATERIALS	4845	WASTE MISCELLANEOUS HAZARDOUS MATERIALS
48292	WASTE RADIOACTIVE MATERIALS	48455	WASTE MISCELLANEOUS HAZARDOUS MATERIALS
4830	WASTE CORROSIVE		
48300	WASTE CORROSIVE MATERIALS, ACIDIC, POISONOUS		

48457	WASTE MISCELLANEOUS HAZARDOUS MATERIALS	48667	WASTE MISCELLANEOUS HAZARDOUS MATERIALS
4850	WASTE MIXED FREIGHT	48669	WASTE MISCELLANEOUS HAZARDOUS MATERIALS
48501	WASTE MIXED FREIGHT	4871	WASTE STREAM FLAMMABLE
4860	WASTE MISCELLANEOUS HAZARDOUS MATERIALS	48712	WASTE STREAM FLAMMABLE LIQUIDS
48601	WASTE MISCELLANEOUS HAZARDOUS MATERIALS	48717	WASTE STREAM COMBUSTIBLE LIQUIDS
48606	WASTE MISCELLANEOUS HAZARDOUS MATERIALS	4875	WASTE STREAM OTHER REGULATED
4861	WASTE MISCELLANEOUS HAZARDOUS MATERIALS	48755	WASTE STREAM OTHER REGULATED MATERIALS
48611	WASTE MISCELLANEOUS HAZARDOUS MATERIALS	48756	WASTE STREAM OTHER REGULATED MATERIALS
48613	WASTE MISCELLANEOUS HAZARDOUS MATERIALS		
48616	WASTE MISCELLANEOUS HAZARDOUS MATERIALS		
4862	WASTE MISCELLANEOUS HAZARDOUS MATERIALS		
48621	WASTE MISCELLANEOUS HAZARDOUS MATERIALS		
48623	WASTE MISCELLANEOUS HAZARDOUS MATERIALS		
48625	WASTE MISCELLANEOUS HAZARDOUS MATERIALS		
48626	WASTE MISCELLANEOUS HAZARDOUS MATERIALS		
4863	WASTE MISCELLANEOUS HAZARDOUS MATERIALS		
48631	WASTE MISCELLANEOUS HAZARDOUS MATERIALS		
48633	WASTE MISCELLANEOUS HAZARDOUS MATERIALS		
48637	WASTE MISCELLANEOUS HAZARDOUS MATERIALS		
48638	WASTE MISCELLANEOUS HAZARDOUS MATERIALS		
4866	WASTE MISCELLANEOUS HAZARDOUS MATERIALS		
48661	WASTE MISCELLANEOUS HAZARDOUS MATERIALS		
48663	WASTE MISCELLANEOUS HAZARDOUS MATERIALS		
48666	WASTE MISCELLANEOUS HAZARDOUS MATERIALS		

Surface Transportation Board Car Types

Table 4-9. STB Car Types

Schedule 710 Line Number	Description	Car Type Code
0	Locomotives	All Code D
36	Plain Box Cars 40'	B1__ - B2__
37	Plain Box Cars 50' and longer	B3_0-7, B4_0-7, B5__, B6__, B7__, B8__
38	Equipped Box Cars	All Code A
39	Plain Gondola Cars	All Code G and J__1, J__2, J__3, and J__4
40	Equipped Gondola Cars	All Code E
41	Covered Hopper Cars	All Code C
42	Open Top Hopper Cars—General Service	All Code H
43	Open Top Hopper Cars—Special Service	All Code K, and J__0
44	Refrigerator Cars—Mechanical	R_6_, R_7_, and R_9_
45	Refrigerator Cars—Non-Mechanical	R_0_ and R_1_
46	Flat Cars TOFC/COFC	All Code P, Q, S, and U except Q8__
47	Flat Cars—Multi-Level	All Code V
48	Flat Cars—General Service	F10_, F20_, and F30_
49	Flat Cars—Other	F_1_, F_2_, F_3_, F_4_, F_5_, F_6_, F_8_, F40_, and F49__
50	Tank Cars—Under 22,000 Gallons	T__0, T__1, T__2, T__3, T__4, and T__5
51	Tanks Cars—22,000 Gallons and Over	T__6, T__7, T__8, and T__9
52	All Other Freight Cars	All Code L, Q8__, and F_7_
54	Caboose	Code M930

Umler Field Descriptions—Data Layout Detail

Table 4-10. Umler Field Descriptions—Data Layout Detail

Description	Field Length	Format	Equipment Type
1) AAR Equipment Type Code	4	A	All
<p>Alphanumeric, report the Equipment Type Code that corresponds to the car's Mechanical Designation and special attributes.</p> <p>For articulated/multi-units, when the Equipment Type Code requires a load limit, the Equipment Type Code must correspond to the total load limit of the unit.</p>			
2) Cubic Feet Capacity-Actual	5	N	All
<p>Numeric actual, i.e., drawing dimension, inside volume of car in cubic feet—end to end, side to side, and from floor to carline.</p> <ul style="list-style-type: none"> • <i>Box:</i> Minimum 02000 to 11000 Maximum Note: If automobile parts box cars equipped with loading racks and can be loaded with other commodities, report a cubic capacity reduced the amount corresponding to the overall depth of the racks when raised in a stored position against roof of car.) • <i>Gondola, Covered Hopper & Hopper:</i> Minimum 00400 to 08500 Maximum Note: For covered hoppers this field must agree with Equipment Type Code.) • <i>Refrigerator:</i> Minimum 01400 to 06700 Maximum Note: For ARTICULATED/MULTI-UNIT SETS, report the sum of the units' cubic capacity. 			
3) Zeros (Formerly Umler Nominal Capacity)	3	N	All
<p>Note: Report zeros. If blanks are reported, they will be output as zeros.</p>			
4) Tare Weight (00)	4	N	All
<p>Numeric, the actual light weight (tare) in hundreds of pounds for each car. If ARTICULATED, report in hundreds of pounds the sum of the lightweight, for the total number of units of the consist. Rounding instructions, e.g., actual 17550 report as 0175; actual 17551 report as 0176.</p> <p>Note: When reporting new cars (except advance registration) and cars that have been reweighed, the Weighing Road (Data No. 46) and Weighing Date (Data No, 47) must be reported.</p> <ul style="list-style-type: none"> • <i>Box:</i> Minimum 0160 to 1600 Maximum • <i>Gondola:</i> Minimum 0300 to 1100 Maximum • <i>Covered Hopper and Hopper:</i> Minimum 0230 to 1200 Maximum • <i>Refrigerator:</i> Minimum 0160 to 1400 Maximum 			

Description	Field Length	Format	Equipment Type
5) Outside Dimensions—Length	5	N	All

Numeric distance over pulling faces of couplers in normal positions. For ARTICULATED/MULTI-UNIT sets report the maximum coupled length of the set. (For ARTICULATION see Section VII). *- Must be between 2 and 16 feet greater than inside length. Feet in Pos. 20-22, inches in Pos. 23-24. Round fraction to the higher inch, e.g., 05 ¼” = 06.

- *Box:* Minimum 03000 to 09811 Maximum
- *Gondola:* Minimum 02500 to 09500 Maximum
Exception: GT ore jenny (Equipment Type Code J 00) Minimum 02400 to 05111 Maximum
- *Covered Hopper and Hopper:* Minimum 02000 to 08011 Maximum
Exception: HMA ore jenny (Equipment Type Code K_8_): Minimum 02000 to 05111 Maximum
- *Refrigerator:* Minimum 03000 to 09811 Maximum

Note 1: Articulated/Multi-Unit sets in excess of 1,000 feet, report 99911.

Note2: Cars having a Gross Rail Load (GRL) of 286,000 lbs. must have minimum outside length greater than 41’ 11”.

Note 3: The edit criteria for Articulated/Multi-Unit sets for the outside length is equal to or greater than the number of articulated units x the minimum edit parameter for the equipment type. Ex:
Box—5 x 03000 = 15000.

6) Outside Dimensions/Upper Eaves Width	4	N	All
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Numeric, measurement over top of eaves at side of car.

Must: (1) not exceed the outside extreme width, (2) not be greater than lower eaves width if lower eaves width is reported, (3) agree relationally with height from rail to upper eaves for clearance code reported. Feet in Pos. 37-38, inches in Pos. 39-40. Round fraction to the higher inch, e.g., 05 ¼” = 06.

If clearance is B	Minimum—04 00 to Maximum—10 08
If clearance is C	Minimum—04 00 to Maximum—10 08
If clearance is E	Minimum—04 00 to Maximum—10 08
If clearance is F	Minimum—04 00 to Maximum—10 08
If clearance exceeds plates B, C, E, F (Code G)	Minimum—04 00 to Maximum—10 11

For ARTICULATED/MULTI-UNIT SETS, report the dimension of the largest UNIT in the set. (For ARTICULATION see Section VII).

Description	Field Length	Format	Equipment Type
7) Upper Eaves—Height	4	N	All

Numeric, measurement is from rail to top of eaves at side of car.

Must: (1) not exceed extreme height, (2) not be less than the lower eaves height, if lower eaves height is reported, (3) agree relationally with upper eaves width for clearance code reported. Feet in Pos. 41-42, inches in Pos. 43-44. Round fraction to the higher inch, e.g., 05 ¼" = 06.

- *Box, Stock, Refrigerator:*

If clearance is B	Minimum—08 00 to Maximum—15 01
If clearance is C	Minimum—08 00 to Maximum—15 06
If clearance is E	Minimum—08 00 to Maximum—15 09
If clearance is F	Minimum—08 00 to Maximum—17 00
If clearance exceeds plates B, C, E, F (Code G)	Minimum—08 00 to Maximum—17 11

- *Gondola, Covered Hopper & Hopper:*

If clearance is B	Minimum—02 00 to Maximum—15 01
If clearance is C	Minimum—02 00 to Maximum—15 06
If clearance is E	Minimum—02 00 to Maximum—15 09
If clearance is F	Minimum—02 00 to Maximum—17 00
If clearance exceeds plates B, C, E, F (Code G)	Minimum—02 00 to Maximum—17 11

For ARTICULATED/MULTI-UNIT SETS, report the dimension of the largest UNIT in the set.

8) Outside Dimensions-Extreme Height	4	N	All
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Numeric, height from top of rail to extreme projection height, Feet in Pos. 33-34, inches in Pos. 35-36. Round fraction to the higher inch, e.g., 05 ¼" = 06.

If clearance is B	Minimum—02 00 to Maximum—15 01
If clearance is C	Minimum—02 00 to Maximum—15 06
If clearance is E	Minimum—02 00 to Maximum—15 09
If clearance is F	Minimum—02 00 to Maximum—17 00
If clearance exceeds plates B, C, E, F (Code G)	Minimum—02 00 to Maximum—18 01

For ARTICULATED/MULTI-UNIT SETS, report the dimension of the largest UNIT in the set.

Description	Field Length	Format	Equipment Type
9) Bearing & Brake Shoe Type	1	A	All

Alphabetic code indicating the type of journal bearings and brake shoes.

- (A) Plain bearings and composition brake shoes
- (B) Roller bearings and composition brake shoes
- (C) Plain bearings and cast iron brake shoes
- (D) Roller bearings and cast iron brake shoes
- (E) Roller bearings, composition brake shoes and constant contact side bearings
- (F) Roller bearings, cast iron brake shoes and constant contact side bearings
- (G) Roller bearings, composition brake shoes and empty/load brake system
- (H) Roller bearings, composition brake shoes, constant contact side bearings and empty/load brake system
- (I) Roller bearings, cast iron brake shoes and empty/load brake system
- (J) Roller bearings, cast iron brake shoes, constant contact side bearings and empty/load brake system
- (K) Roller bearings, composition brake shoes and designed for high-speed train operations
- (L) Roller bearings, composition brake shoes, empty/load brake system and designed for high-speed train operations

Note 1: Cars having plain bearing codes A or C will be edited to ensure compliance with AAR interchange Rules. The code A or C may be present in the record if the transportation codes are equal to XJ.

10) Axles	1	A	All
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Report the applicable alphanumeric code indicating the number of axles per car.

Note 1: Mandatory for cars with 286,000 - pound total weight on rail.

Note 2: For ARTICULATED/MULTI-UNIT SETS, axles reported must be equal to or greater than: (2 x number of articulated units) + 2.

Unit A	Unit D	Unit C	Unit B
2 1	1 1	1 1	1 2

(For ARTICULATION see Section VII).

Axle Code	Axles per Car	Axle Code	Axles per Car	Axle Code	Axles per Car	Axle Code	Axles per Car
2	2	C	13	K	21	S	29
4	4	D	14	L	22	T	30
6	6	E	15	M	23	U	31
8	8	F	16	N	24	V	32
9	9	G	17	O	25	W	33
0	10	H	18	P	26	X	34
A	11	I	19	Q	27	Y	35
B	12	J	20	R	28	Z	36 or more

Description	Field Length	Format	Equipment Type
11) Draft Gear/Coupler	2	N	All

Numeric, report the code indicating the type of draft gear and coupler.

- 55 Solid drawbar on both ends.
- 56 Articulated connector at intermediate connection.
- 57 Standard Draft Gear with solid drawbar rotary at the other end.
- 58 Solid drawbar one end with solid drawbar rotary at the other end.
- 59 Solid drawbar one end with draft gear rotary at the other end.
- 60 Solid drawbar one end E, F or E/F coupler.
- 66 Standard Draft Gear (24-5/8" pocket) with E, F or E/F bottom shelf coupler.
- 67 Hydraulic Draft Gear (3.25" to 6" stroke) with E, F or E/F bottom shelf coupler.
- 77 Standard Draft Gear (24-5/8" pocket) with E, F or E/F double (top and bottom) shelf coupler.
- 78 Hydraulic Draft Gear (3.25" to 6" stroke) with E, F or E/F double (top and bottom) shelf coupler.
- 88 Standard Draft Gear (24-5/8" pocket) with E or E/F coupler.
- 89 Hydraulic Draft Gear (3.25" to 6" stroke) with E or E/F coupler.
- 94 Hydraulic Draft Gear (3.25" to 6" stroke) with single rotary coupler at the B end.
- 95 Standard Draft Gear (24-5/8" pocket) with single rotary coupler at the B end.
- 96 Standard Draft Gear (24-5/8" pocket) with two rotary couplers.
- 97 Hydraulic Draft Gear (3.25" to 6" stroke) with two rotary couplers.
- 98 Hydraulic Draft Gear (3.25" to 6" stroke) with one rotary coupler at the A end.
- 99 Standard Draft Gear (24-5/8" pocket) with one rotary coupler at the A end.

Car equipped with sliding center sills or cushioned draft gear, report the inches of travel from normal position to maximum position to maximum extension for one end of car.

Inches of Travel Minimum 05 to 36 Maximum

Note 1: Equipment with rotary couplers, codes 57 through 59 and 95 through 99 must have the codes FROTARY or EROTARY reported accordingly in Coupler A-End and Coupler B-End (Data Nos. 41 and 42).

AAR Equipment Type Code

The current equipment type codes and descriptions can be viewed on Railinc's website at <https://public.railinc.com/products-services/umler-system#umler-reference-materials>.

Figure 4-1. U.S. Census Bureau Regions

U.S. Census Bureau

Census Bureau Regions and Divisions with State FIPS Codes

Region 1: Northeast

**Division 1:
New England**

Connecticut (09)
Maine (23)
Massachusetts (25)
New Hampshire (33)
Rhode Island (44)
Vermont (50)

**Division 2:
Middle Atlantic**

New Jersey (34)
New York (36)
Pennsylvania (42)

Region 2: Midwest*

**Division 3:
East North Central**

Indiana (18)
Illinois (17)
Michigan (26)
Ohio (39)
Wisconsin (55)

**Division 4:
West North Central**

Iowa (19) Nebraska (31)
Kansas (20) North Dakota (38)
Minnesota (27) South Dakota (46)
Missouri (29)

Region 3: South

**Division 5:
South Atlantic**

Delaware (10)
District of Columbia (11)
Florida (12)
Georgia (13)
Maryland (24)
North Carolina (37)
South Carolina (45)
Virginia (51)
West Virginia (54)

**Division 6:
East South Central**

Alabama (01)
Kentucky (21)
Mississippi (28)
Tennessee (47)

**Division 7:
West South Central**

Arkansas (05)
Louisiana (22)
Oklahoma (40)
Texas (48)

Region 4: West

**Division 8:
Mountain**

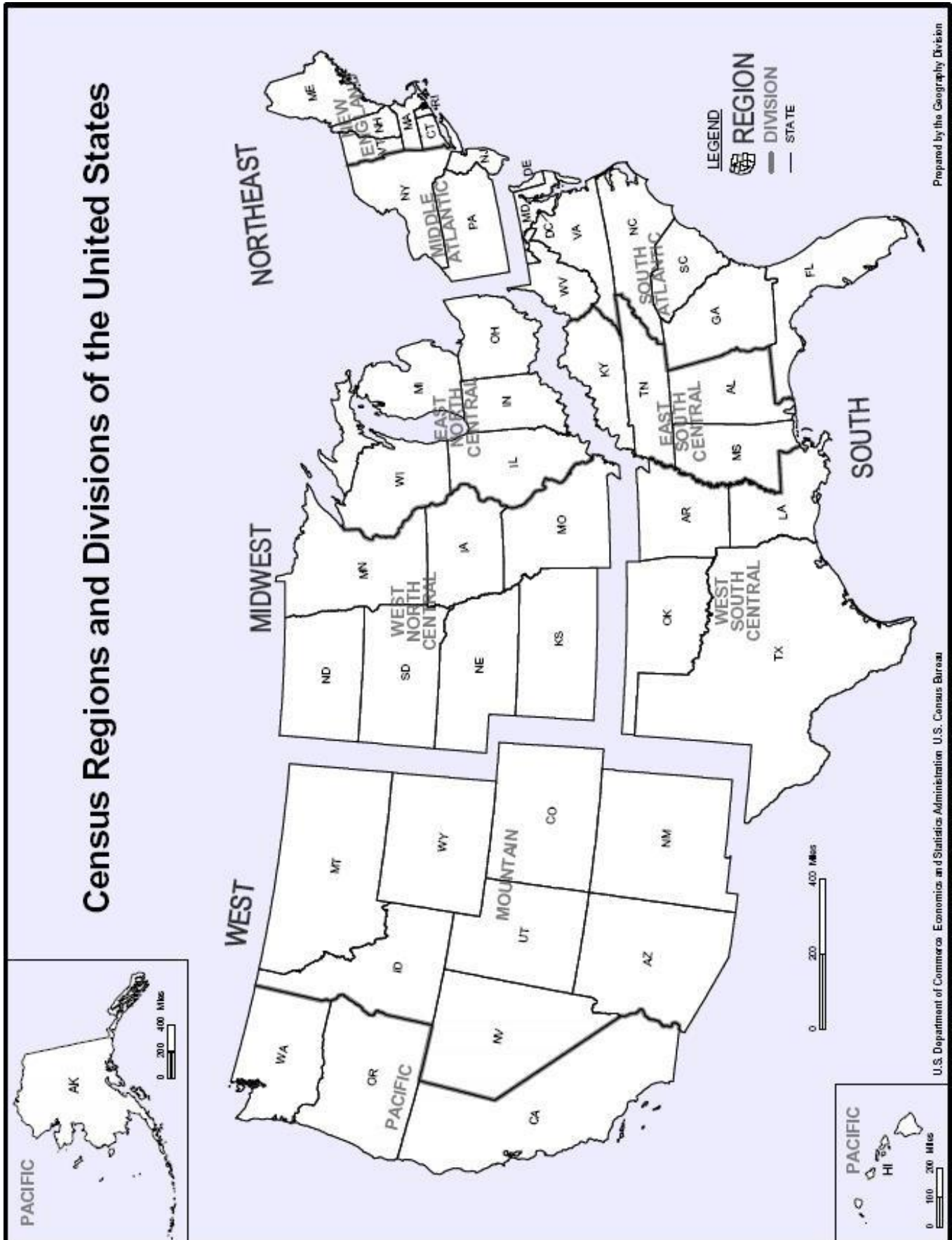
Arizona (04) Montana (30)
Colorado (08) Utah (49)
Idaho (16) Nevada (32)
New Mexico (35) Wyoming (56)

**Division 9:
Pacific**

Alaska (02)
California (06)
Hawaii (15)
Oregon (41)
Washington (53)

*Prior to June 1984, the Midwest Region was designated as the North Central Region.

Figure 4-2. U.S. Census Bureau Region Map



CS54 Group Codes

1. Railroads in the *Weekly Railroad Traffic* report originated approximately 87 percent of U.S. freight carloads, and 97 percent of intermodal units, during 2010. When the U.S. operations of the Canadian railroads are included, the figures increase to 96 percent and 100 percent. The Canadian railroads in the *Weekly Railroad Traffic* report accounted for 96 percent of Canadian traffic in 2002.
2. US Class I railroads are those earning revenues of at least 398.7 million in 2010, as defined by the Surface Transportation Board.
3. Individual week comparisons to the prior year are made to the week which ended 52 weeks earlier.
4. Revisions to the traffic data may be submitted by reporting railroads through the end of the following calendar year. When a railroad is unable to submit its traffic figures for the current week, the AAR repeats the figures from the prior year. These figures are replaced with carrier-reported figures as soon as possible, and cumulative figures and weekly data for the previous year incorporate these changes.
5. The following commodity groups are used for reporting carload traffic in Part A:

1.	Grain	STCC 0113 and 01144—includes grains (wheat, corn, oats, sorghum, etc.) and soybeans.
2.	Farm Products, Ex. Grain	STCC 01, except 0113 and 01144—includes all farm products except grains and soybeans.
3.	Metallic Ores	STCC 10—includes all metallic ores, such as iron, copper, lead, zinc, gold, silver, bauxite or aluminum, manganese, tungsten, and chromium ores.
4.	Coal	STCC 11—includes anthracite, bituminous, and lignite coal.
5.	Crushed Stone, Sand and Gravel	STCC 142 and 144—includes crushed or broken stone or riprap and sand or gravel.
6.	Nonmetallic Minerals	STCC 14, except 142 and 144—includes nonmetallic minerals (clay, phosphate rock, rock salt, etc.), except fuel, and crushed stone, sand, and gravel.
7.	Grain Mill Products	STCC 204 and 20923—includes flour, prepared feed, cereal preparations, milled rice, wet corn milling or sorghum products, soybean cake.
8.	Food and Kindred Products	STCC 20, except 204 and 20923—includes all food and feed products, except grain mill products (distillers, dried grains).
9.	Primary Forest Products	STCC 241—includes primary forest or wood raw materials, except sawmill products.
10.	Lumber and Wood Products	STCC 24, except 241—includes all lumber and wood products, except furniture, and primary forest products.
11.	Pulp, Paper, and Allied Products	STCC 26—includes all products from pulp mills, paper, paperboard or fiberboard, containers, or boxes, and building paper or board.
12.	Chemicals	STCC 28 and 49—includes all chemicals and allied products, and hazardous materials.
13.	Petroleum Products	STCC 291—includes crude and all products of petroleum refining, such as gasoline, jet or high volatile fuels, kerosene, distillate fuel oil, lubricating oils and greases, asphalt pitches or tars, residual fuel oils, and liquefied gases.
14.	Stone, Clay, and Glass Products	STCC 32—includes all types of glass products, hydraulic cement, structural clay products, pottery or related products, concrete, gypsum, or plaster products, cut stone or stone products, and abrasives or asbestos products.
15.	Coke	STCC 29911, 29913 and 29914—includes coal or coke briquettes, petroleum coke, and coke produced from coal.
16.	Metals and Products	STCC 33 and 34—includes primary metal products, including galvanized, and fabricated metal products, except ordnance materials, machinery, and transportation equipment.
17.	Motor Vehicles and Equipment	STCC 371—includes motor vehicles, passenger car bodies, motor bus or truck bodies, motor vehicle parts and accessories, and truck trailers.
18.	Iron and Steel Scrap	STCC 40—includes waste and, or scrap material not identified by product
19.	Waste, Nonferrous scrap	STCC 40-48 includes waste, nonferrous scrap, and all waste and scrap materials and hazardous waste.
20.	All Other Carloads	All carload and less than carload traffic not identified above, excluding intermodal traffic.

SECTION 5 2022 Waybill Miling Methodology

The following documentation is included in this section:

- I. Overview
- II. Step 1: Match Waybill Data to Railinc Event Repository Data
 - A. Match STB Waybills to Railinc Trips
 - B. 1.2 Define Movement Events
 - C. 1.3 Determine if the Movement Event Route ‘Matches’ the Waybill Route
 - D. 1.4 Apply Mileage Using Events
 - E. 1.5 Validate Mileage Pairs
 - F. 1.6 Validate the Calculated Mileage for Each Waybill
 - G. 1.7 Send Waybills That Were Held to Pattern Match
- III. Step 2: Utilize Waybill Pattern Matching
 - A. 2.1 Define Waybill Patterns
 - B. 2.2 Match Waybills to Patterns
 - C. 2.3 Apply Median Waybill Data to Pattern Matched Waybills
 - D. 2.4 Send Remaining Unmiled Waybills to Step 3
- IV. Step 3: Utilize Enhanced Waybill Routing Logic
- V. Final Processing
 - A. 4.1 Apply Border Crossing Logic
 - B. 4.2 Modify Waybill Sample Interchanges if Necessary
 - C. 4.3 Apply State Flags
- VI. Step 5: Apply Shortline Miles to the Final File

Overview

The purpose of this section is to explain the methodology Railinc utilized to apply miles to the 2022 Miling and Modifying Waybill Sample file. The foundation of the mileage methodology is the TRAIN II system. The TRAIN II system is the mechanism used by over 500 railroads to report movement events to Railinc for sharing with other railroads and their customers. An overview of the TRAIN II system is provided in [Appendix B](#) and a detailed document is also available from Railinc. The messages from the TRAIN II system are stored in the Event Repository (ER).

Since there is no direct link between the waybills in the sample and the movement events railroads report to Railinc in the ER, the goal of Railinc’s miling methodology is to apply ER railroad miles to the waybills. The methodology is structured to ensure event-based data is utilized as the primary source of mileage. The first step is to determine if the waybill in the sample can be matched to a set of events based on the waybill date, the railroads involved and the origin and destination. (There are waybills in the sample that did not have movement events recorded in the ER.) If a suitable event match cannot be determined, we look to see if there are very similar waybills in the 2022 sample that were miled based on events. If a sufficient number of similar event-miled waybills are found, we use that pattern of waybills to determine the miles. If too few or no similar event-miled waybills are found, utilize an Enhanced Waybill Routing Logic (EWRL) model that is based on the Federal Railroad Administration’s North American Rail Network. Thus, the three steps are: (1) match waybill data to Railinc event data (sum miles for event pairs in the trip), (2) apply pattern matching to any waybills not miled after step 1 and (3) utilize the EWRL model for any waybills not miled after step 2. Each of the high-level steps and the sub processes are outlined in this section.

Table 5-1 outlines the summary statistics for the three-step process. There was a total of 2,101,202 waybills submitted for the 2022 STB Waybill Sample:

Table 5-1. Three Step Methodology

Three Step Methodology	Count	Percent of Total
Match Waybill Data to Railinc Event Data	1,262,874	60.10%
Pattern Matching	413,742	19.69%
Enhanced Waybill Routing Logic	424,586	20.21%
Total	2,101,202	100%

The following explanations are about Railinc’s systems:

Event Repository (ER): Railinc stores all movement events reported via the TRAIN II system by the Railroads in an Event Repository. For more details on the TRAIN II system, please see [Appendix B](#). Railroads reported over three (3) billion events in 2022. The ER is also utilized for calculating Car Hire for the industry on a monthly basis.

Equipment Cycle (EQC): Railinc organizes the movement events into trips. A trip is a set of movement events that describe a car’s movement from origin to destination. For example, a trip

will start when the customer notifies the railroad the shipment has been released and the railroad sends Railinc a release movement event. Events on the progress of the shipment from origin to destination along with the final placement of the car at the customer are grouped together and defined as a trip.

Step 1: Match Waybill Data to Railinc Event Repository Data

1.1 Match STB Waybills to Railinc Trips

Waybills in the sample are matched with trips created in Railinc's EQC process using the following parameters from the STB Waybill:

- Waybill date
- Origin railroad
- Destination railroad
- Origin location
- Terminating location

Locations are defined utilizing the industry reference file for Standard Point Location Codes (SPLCs).

When an EQC trip match cannot be determined, the waybills are held for pattern matching in Step 2.

1.2 Define Movement Events

For each waybill that was matched with a trip, all of the events for that trip are selected from the ER. A waybill could match all or part of a trip. Additional processing is performed to identify the subset of events in the trip that match the waybill submitted in the sample.

Events are selected via a 'Best Match' algorithm that determines the most logical start and end event of the waybill based on the origin and destination listed on the waybill. The start of trip (SOT) event is the event that best matches the origin on the waybill. The end of trip event (EOT) is the best match for the destination on the waybill.

- A match can fall into one of three categories in order of precedence:
 - **1 - Natural Match:** An exact match in events by both Railroad and SPLC.
 - **2 - Location Match:** The SPLC reported on the waybill matches the SPLC reported in an event.
 - **3 - Approximate Match:** The Railroad is an exact match and the SPLC found in the reported events is within 30 miles of the SPLC reported on the waybill.

A summary of the SOT and EOT match types (from Step 1) are listed in Table 5-2:

Table 5-2. A Summary of the SOT and EOT Match Types

SOT Match Type	EOT Match Type	Count	Percent
Natural Match	Natural Match	853,500	67.58%
Natural Match	Location Match	88,359	7.00%
Natural Match	Approximate Match	109,157	8.64%
Location Match	Natural Match	77,424	6.13%
Location Match	Location Match	7,910	0.63%
Location Match	Approximate Match	6,691	0.53%
Approximate Match	Natural Match	97,176	7.69%
Approximate Match	Location Match	8,032	0.64%
Approximate Match	Approximate Match	14,625	1.16%
Total		1,262,874	100.00%

See [Appendix C](#) for a detailed example.

1.3 Determine if the Movement Event Route ‘Matches’ the Waybill Route

1.3.1 Route match definition

The movement events identified between the SOT and the EOT above are analyzed to develop the route the car in the waybill sample traveled. Interline routes are defined as origin SPLC and Railroad to a junction where the car is interchanged to another Railroad to be taken to the next junction or destination. Local routes are defined as origin SPLC, railroad and destination SPLC.

A route match is determined by the following:

- Origin and destination match
 - An event is reported by the origin (terminating) railroad at or within 30 miles of the origin (terminating) SPLC on the waybill or
 - An event is reported by a different railroad with the same SPLC as the origin (terminating) SPLC
- Interchange match: each of the railroads in the waybill route either receives or delivers the car within 30 miles of the origin/junction/destination on the waybill

The distance of 30 miles was selected to account for the area around gateways.

1.3.2 Examples of waybill route to event route matches:

The first example, in Table 5-3 below, shows the difference in how the route was reported on the waybill and how the equipment actually moved. In the waybill route details, the equipment is moving from the origin SPLC 123456 where Railroad #1 will move the equipment to SPLC 345678 and interchange the equipment to Railroad #2. Railroad #2 will then move the equipment to the destination SPLC 654321. In the event route details, the Railroad #3 is interchanging the equipment between Railroad #1 and Railroad #2 at SPLC 987654. Because SPLC 987654 is within 30 miles of the waybill reported SPLC 345678 the Railroad #3 is used, and the miles are then applied to Railroad #1.

The second example illustrates a railroad not in the waybill route is delivering the equipment to final destination. In the waybill route details, the equipment is moving from the origin SPLC 123456 to the destination SPLC 987654 on Railroad #1. The event route details show the equipment from origin SPLC 123456 moving to SPLC 654321 where the equipment is interchanged to Railroad #2 for delivery to destination SPLC 987654. The Railroad #2 miles are applied to Railroad #1.

The third example illustrates a railroad not in the waybill route originating the equipment and interchanging the equipment to the railroad in the waybill. In the waybill route details the equipment is moving from the origin SPLC 123456 to the destination SPLC 987654 on Railroad #2. The event route details show the equipment from origination on the Railroad #1 from origin SPLC 123456 moving to SPLC 654321 where the equipment is interchanged to Railroad #2. Railroad #2 moves the equipment to destination SPLC 987654. Railroad #1 miles are applied to Railroad #2.

Table 5-3. Waybill Route vs. Event Route

No.	Routes	Details
1	Waybill Route	123456-Railroad #1-345678-Railroad #2-654321
	Event Route	123456-Railroad #1-987654-Railroad #3-987654-Railroad #2-654321
2	Waybill Route	123456-Railroad #1-987654
	Event Route	123456-Railroad #1-654321-Railroad #2-987654
3	Waybill Route	123456-Railroad #2-987654
	Event Route	123456-Railroad #1-654321-Railroad #2-987654

1.4 Apply Mileage Using Events

When a match is found, Railinc takes the selected events from the waybill and ER and pairs those events together. This prepares the data for mileage assignment. Miles are not calculated when the event pair is at the same location. In the example below events 0,1 and 2 are all at the same location. To get the miles for the reported event 3 we will pair this event to event 2.

Table 5-4. Example with Mileage Assignment

SOT and EOT Match	Event Timestamp	Event Type	Message From Road	Message To Road	Location	Event Reference
SOT Location Match	14FEB22:16:24	ARIL	Railroad #1		1TX, US	0
SOT Natural Match	14FEB22:16:29	ICHR	Railroad #1	Railroad #2	1TX, US	1
SOT Location Match	14FEB22:16:29	ICHD	Railroad #1	Railroad #2	1TX, US	2
SOT Natural Match	14FEB22:20:00	DFLC	Railroad #2		2TX, US	3
	14FEB22:20:30	ARIL	Railroad #2		3TX, US	4
	15FEB22:08:31	DFLC	Railroad #2		4TX, US	5
EOT Natural Match	15FEB22:08:55	DFLC	Railroad #2		5TX, US	6

From Event	Action	To Event	Miles
Event 2	Paired With	Event 3	10
Event 3	Paired With	Event 4	20
Event 4	Paired With	Event 5	15
Event 5	Paired With	Event 6	25
		Total Miles	70

1.5 Validate Mileage Pairs

Railinc uses its Enhanced Waybill Routing Logic (EWRL) model to determine rail distances between event pair locations. This model utilizes an ESRI server, and the North American Rail Network (NARN) as supplied by the FRA. The model utilizes various impedance values that attempt to route between locations in the following order:

- First, over track indicated as owned by the railroad
- Second, over track the Railroad listed as having trackage rights on
- Third, over any available track. High impedances make this option very unlikely.

The miles between the event pairs are determined by the EWRL model and are reviewed for data quality. Pairs that do not meet the data quality criteria, identified below, are defined as suspect. Suspect pairs are defined with the following criteria:

- Miles between the paired events are greater than 300, and the average miles per hour is greater than 100

- EWRL process could not identify rail miles between the two locations on the paired events.

Waybills that have one or more suspect event pairs are not miled using the Step 1 approach and instead are held for pattern matching in Step 2.

1.6 Validate the Calculated Mileage for Each Waybill

For mileage produced in Step 1 to be considered a valid total mileage value, the following rules must be true:

- A high mileage validation where the total miles for the waybill from the event-based mileage process must be less than 4000 (Note: this validation rule is not applied to Step 3)
- The total event-based miles must be greater than the ‘as the crow flies’ straight line miles from origin to destination
- Total interchanges are less than or equal to six (6)

Total mileage values that do not pass validation are held for pattern matching in Step 2.

1.7 Send Waybills That Were Held to Pattern Match

Waybill Sample Records that were held are sent to Step 2.

Step 2: Utilize Waybill Pattern Matching

2.1 Define Waybill Patterns

2.1.1 Create patterns from the event-based miled waybills

It is important to note that pattern matches are still using event-based mileage. A pattern is defined as a group of miled waybills with the same:

- ISM Service Group - group of Standard Transportation Commodity Codes (STCCs)
- Origin railroad
- Origin SPLC
- Interchange location and railroads (when interchanges are present)
- Destination railroad
- Destination SPLC

For a pattern to be used for matching in step 2, i.e., a “good pattern,” it must have at least five waybills with event-based mileage from Step 1. A minimum requirement of five waybills was chosen as a logical sample size to sufficiently represent the normal variability of a pattern.

2.1.2 Determine the median waybill for each good pattern

The median waybill is the waybill whose total miles fall in the middle of the distribution of miles for the other waybills in the pattern.

2.2 Match Waybills to Patterns

Evaluate each unmiled waybill from Step 1 to see if it matches a “good pattern”.

2.3 Apply Median Waybill Data to Pattern Matched Waybills

Utilize the miles by railroad from the median waybill for each unmiled waybill that matched the pattern. The pattern matched waybills are now miled according to the median waybill from the pattern.

2.4 Send Remaining Unmiled Waybills to Step 3

Not all unmiled waybills from Step 1 will match a “good pattern” in Step 2. The remaining unmiled waybills move to Step 3 in the miling process.

Step 3: Utilize Enhanced Waybill Routing Logic

If a waybill does not match a trip in Step 1 or a pattern in Step 2, the EWRL model is utilized to determine the likely route. In this approach, the total miles and segmented railroad miles are calculated from the route reported on the waybill using the Federal Railroad Administration’s North American Rail Network. The EWRL model incorporates track ownership and trackage rights to assign a likely route for the waybill.

Step 4: Final Processing

4.1 Apply Border Crossing Logic

4.1.1 Event Based and Pattern

Railinc determines the event pairs for each waybill, and the pairs are evaluated geospatially for border crossings.

Note: If the border crossings, which are handled by defining new interchanges, produce more than 7 total interchanges, the waybill is then dropped from the event-based mileage and miled via Step 3. Border crossings are then evaluated with the logic in 4.1.2.

4.1.2 Enhanced Waybill Routing Logic (EWRL):

Railinc determines the route segments for each waybill, establishes mileage for each segment, and those route segments are then evaluated geospatially for border crossings.

4.1.3 Customer Border Logic:

Custom border logic defined by the STB is then applied to split miles between the US and Canada.

4.2 Modify Waybill Sample Interchanges if Necessary

The only time the route as reported on the waybill is altered, if necessary, is to add the ‘faux’ interchanges for US/CA border crossings. The originally submitted data is available to the FRA/STB in a separate file.

4.3 Apply State Flags

As the track sections that comprise the total mileage for a waybill are identified, the mileage by state and country is also captured. If there are miles greater than zero for a state, the state flag is set to 1 for that specific state and waybill. If the mileage is not greater than 1, the state flag remains blank. It is possible for the state flag to be set to 1 when the movement did not take place in that particular state. This is caused by ER-based miles which have interchanges that may be with a 30-mile radius.

Track sections miled in Steps 1 and 2 are sections of track between event pairs as described in section 1.4. Track sections in step 3 are from origin to interchange, interchange to interchange or interchange to destination. The state flag methodology is the same for Steps 1, 2 and 3.

Step 5: Apply Shortline Miles to the Final File

In the event a railroad does not populate the Shortline Mileage (field 24), the field is populated with the mileage calculated from the EWRL model.

It is possible for the shortline mileage value in field 24 to be larger than the total miles for the following reasons:

- Shortline miles reported by a railroad are longer than Railinc’s calculations. In this scenario, Railinc does not update what was reported by the railroad in field 24.

- The ER-based mileage process may have reported a precise SOT or EOT in an alternate location from what was reported on the waybill due to the approximate match approach defined in Step 1.2 above (i.e., within 30 miles).
- The ER-based miles have interchanges that are within the 30-mile radius of the interchanges in the waybill route. This could cause the ER-based miles to vary around interchanges.
- It was an intermodal movement where a substantial part of the trip was not on rail. The ER-based miles only include miles on rail. Note: Intermodal waybills miled in Step 3 will be miled from origin to destination entirely on rail because there is no ER data to differentiate the rail/non-rail portions of the movement.
- One or more short lines not on the waybill route were involved in the ER-based movement. The model may have chosen a longer path based on the track attributes in NARN – short line track attributes do not show the trackage rights.

Appendix A: The Carload Waybill Statistics: Usefulness for Economic Analysis

INTRODUCTION

In recent years, before major reductions in governmental economic regulation of the railroad and motor carrier industries, a wide variety of transportation-related data bases were publicly available. These data bases encompassed annual reports, traffic flow samples, financial reports, equipment utilization studies and many other types of data and analyses generated from the government mandated data provided by private sector firms. The combination of deregulation, governmental budget cuts, and the Federal Paperwork Reduction Act of 1980 have reduced or eliminated the availability of the timely and expansive data bases which prevailed before 1980. For example, the Commodity Transportation Survey of the 1977 Census of Transportation was not fully redone until the 1993 Commodity Flow Survey. Concurrently, 1980 marked the last year where the inland water carriers and non-class I railroads were required to file annual reports with the Interstate Commerce Commission (ICC)¹. Publications by private sector firms such as TRINCS and Transportation Facts and Trends have either been reduced in scope or eliminated due, in part, to a lack of information.² With the advent of deregulation, collection of data for many regulatory purposes was no longer necessary. Although in recent years the government has generally reduced data reporting requirements, the railroad Waybill Sample has actually expanded. Beginning in mid-1981, the railroad industry, in return for the ability to provide this traffic sample on computer tape, was required to provide additional information.

The history of the Waybill Sample dates to the late 1800's, when data for specific shippers' freight movements were collected and analyzed for proceedings before the ICC. The first all commodity annual Waybill Sample was conducted in 1939, but it was not until 1946 that the continuous sample was initiated. Since that time, the continuous sample has undergone significant changes in submission methods and sampling rates. Although generally referred to as the "one percent" Waybill Sample, the overall sampling rate today is close to three percent.³

Waybill data have been used by shippers, consultants, railroads, and various federal and state governmental agencies in a wide array of cases before the ICC (now the STB), state regulatory bodies, and the courts. Aside from these judicial or regulatory uses, the Waybill Sample is utilized as a tool for market research and analysis. The Waybill is also used in the annual calculation of the statutorily-mandated Cost Recovery Percentage⁴ and as the basis for the Productivity Adjustment Factor for the Rail Cost Adjustment Factor.⁵ In addition, the Waybill has been used to: develop the multi-level (auto flatcar) reload program, perform market-share analyses, equipment utilization studies, car cycle analyses, and hazardous material flow and risk cost assessment as well as to evaluate other rail data bases such as the TeleRail Automated Information Network (TRAIN II) and the Freight Commodity Statistics (FCS).

While the STB provides a precise set of instructions for the sampling and reporting of the Waybill Sample, there exists a flexibility in the billing methods authorized in the Official Railway Accounting Rules which can produce subtle nuances in the sample data. One example is the rebilling of interline received or bridge traffic as local traffic. This rebilling tends to understate the actual length of haul for the movement. Unless these nuances in the Waybill Sample are fully understood, the use of these data and the ensuing conclusions from their analysis may be flawed. The remainder of this paper addresses several major waybill data concepts which, in some recent applications, appear to have been discounted or ignored, and provides guidelines for their interpretation.

MAJOR WAYBILL ISSUES

Waybill Sampling Rate

While intended to be a “one percent” sample, in reality the Waybill Sample was closer to an 0.7 to 0.9 percent sample of waybills during the years 1946 to 1980 (see Table 1).⁶ Since adoption of Ex Parte No. 385 dual sampling procedures in 1981, the exact sampling rate has been a function not only of the waybill submission method used, but also the billing method chosen by the railroad. If the railroad chose the “hardcopy” method of reporting, the sampling rate would range between one and twenty percent. If the railroad chose the Machine-Readable-Input (MRI) submission method, the sampling rate would vary between 2.5 and 50 percent.

The billing method is also a determinant of sample size. As a railroad may bill local (or rebill interline received) multiple car movements as a series of single car moves, the sampling rate may be reduced. The reduction in the sampling rate will have no impact upon the quality of the population estimate, since the exact sampling rate for each record (population of the stratum from which the sample was drawn, divided by the sample count) is used. If the road, by virtue of its billing procedures, increases the population of a stratum, a larger sample will be drawn. Nevertheless, the proper population estimate can still be computed. Single car billing of multiple carload movements may alter calculated individual Waybill movement costs (as these single-car waybills will not receive multiple car costing adjustments).

While the “hardcopy” Waybill Sample is heavily comprised of single car waybills which produce a sampling rate of a little over 1.1 percent, the MRI roads collectively report a sample of nearly 3 percent (see Tables 2 and 3). As the percentage of MRI waybills increases, the overall Waybill sampling rate also increases.

Hardcopy to MRI conversion has had several positive effects upon the Waybill Sample, aside from the reduction in reporting costs borne by the railroad industry. Generally speaking, MRI waybills are more error free due to internal editing of the data by the railroads before the sample is submitted to the STB. Another effect of this MRI conversion has been a denser and more representative sample. In addition, the number of waybills in each year's sample was increased, due mainly to the more intensive sampling rates of the MRI waybills. During the period 1980 to 1995, the Waybill Sample size increased by nearly 175 percent, to over 495,000 waybills. Concurrently, the incidence of multiple car waybill reporting grew dramatically (see Figure 1).

The impact of the improved sample is also evident in the Waybill-to-FCS comparison. While the Waybill had fallen short in the past, it now exceeds the FCS total car loading and tonnage figures by a logical magnitude (see Figure 2). Due to this historical shortcoming, it was common practice to expand the 1972 to 1980 Samples by first multiplying them by 100 (the theoretical inverse of the “1 percent” Waybill sampling rate) and then create a second “FCS expansion” factor by comparing the expanded car loading, tonnage, and revenue figures from the Sample with those reported in the FCS data base by the Class I carriers. With the introduction of the MRI Sample, calculation of the FCS expansion factor was no longer necessary.

Another benefit of the new sampling methodology was the inclusion of data on each observation in the Sample which enables calculation of the exact sampling rate for each waybill movement. Comparison of the population count (from which the Sample was chosen) and the total number of records in each strata enable the user of the Sample to calculate the specific sampling rate rather than using the theoretical sampling rate which might lead to non-sampling bias when

investigating small subsamples of the data.

Multiple Car Reporting

As illustrated in Figure 1, multiple car movements were often reported on a per-car basis prior to imposition of Ex Parte 385. This was due to the ICC's desire to obtain data (during the period of extensive railroad regulation) on a prorated per-car basis to facilitate regulatory oversight more easily. Prior to 1980, it was uncommon for two or more cars to be shown as billed on the one waybill in the Sample.

Consequently, due to the changes in sampling methodology explained here and in the previous section, Sample data from 1972 through 1980 are not strictly comparable in regard to shipment sizes with data collected after 1981 under Ex Parte 385.

Reported Revenues

The ICC states: “The Waybill Sample is a source of reliable and comprehensive information on rail carload freight traffic flows and characteristics.”⁷ Although the Sample is employed in a variety of planning studies, regulatory oversight is the prime purpose behind its collection. Both the Cost Recovery Percentage required under Section 202 of the Staggers Act and the output measure employed in the productivity adjustment to the Rail Cost Adjustment Factor, required under Ex Parte 290, are calculated from the Sample.

Within regulatory proceedings, while the ICC and STB have repeatedly allowed access to confidential Sample data, they have made it clear that the data's confidentiality must be maintained. While the ICC established a “Public Use” file, a truncated version of the Master Waybill Sample that excludes fields showing railroad, detailed equipment ownership, and detailed geographic information, they reaffirmed the necessity to retain any and all information which is confidential. Been focused on railroad rate changes.⁸ In many of these analyses, revenue data from the STB's Waybill Sample have been employed. While significant changes occurred in the Sample in 1986 with respect to the reported revenue field, these events have not been generally reflected in recent literature.⁹

In response to railroad industry concerns regarding the potential release of sensitive contract rate information at a time when the ICC desired continued accuracy in revenue related data, the ICC altered its method of contract revenue data collection. Beginning with the 1986 Sample, railroads were allowed to disguise their contract revenues through factoring them by a scalar value at the three-digit STCC level.¹⁰ Carriers employing this contract revenue masking technique provide the STB with a table indicating that all waybills with a calculated rate flag have their revenues scaled up or down by the table factor corresponding to the waybill three-digit STCC.

These contract revenue factor tables are highly confidential -- known only between the reporting railroad and the STB. Moreover, these data are utilized by the STB only for internal analyses. These factored values are never provided to the Sample contractor and are not reflected in reported revenues in either the Master or Public Use files. While carriers are not required to universally employ the contract confidentiality factor, it has been estimated that about two-thirds of all waybills in the Sample make use of this confidentiality mechanism. Hence, failure to understand the nature of revenues reported in the Sample may lead to erroneous conclusions.

In essence, the calculated rate flag method of data security allows railroads to mask contract revenues, while allowing the STB to internally utilize the most accurate contract rate data

available in its calculation of the Cost Recovery Percentage and the Productivity Adjustment Factor to the Rail Cost Adjustment Factor. As a result, and based on one author's experience in working with railroads on reported revenues for contract traffic, revenue data derived from Sample files since 1986 are generally overstated due to use of this confidentiality mechanism. Coupled with rounded mileages, revenue per ton-mile figures for the period 1986 to date are not strictly comparable with those obtained from the period 1982-1985.¹¹

Reported revenues can lead to serious shortcomings in analyses that process individual waybill records, as in shipment specific mode-choice models. As shown in Table 4, nearly identical movements of rail grain traffic can show very different implied rates. In the single-line, unit-train sample records of STCC 01137 from Oklahoma City BEA to Houston BEA shown in the table, revenues per car mile range from over \$3.00 to less than 10 cents.¹² The wide range of revenues for this traffic cannot be explained away by possibilities of differences in cost structures across railroads carrying the traffic, private car ownership for some of the moves, rate seasonality, or additional services performed for some of the moves -- the lower range revenues are not sufficient to cover crew, locomotive, and fuel costs. Although the movements shown in the table were selected from the Public Use File, freight revenue and carloads values from this version of the sample are identical to those of the corresponding records in the Master File. Only the short-line rail distance differs across the two files - the Public Use File rounds to the nearest 10 miles while the Master File rounds to the nearest mile.

Mode-choice models that include freight rates as a factor affecting the choice and use individual waybill record reported revenues as a rate proxy for the rail shipment, may get unrealistic results in mode selection, especially when the alternative mode's rate is calculated by formula. In models where that is the case, rail rates for the records described above would have the variability described above, while the alternative mode rate, calculated by formula, would have little or no variability.

One such mode-choice model is the Truck-Rail, Rail-Truck Diversion Model developed by Transmode Consultants, Inc. for the U.S. Department of Transportation (USDOT). This model can be used to estimate diversion from rail to truck using waybill sample records as inputs. As originally developed, the model estimates diversion by reading in selected fields from the Waybill Sample, selecting a rail rate proxy (reported revenue for carload traffic, calculated by a rate algorithm for intermodal), computing a truck rate proxy for the shipment, and computing both rail and truck non-transport logistics cost for the shipment. Total logistics costs for each mode are calculated as the sum of the freight charges and the non-transport logistics cost. The mode with the lowest total logistics cost is chosen as the winning mode.

The 1994 user's manual for this model suggests ways to calibrate the model if there is diversion in the base case, that is, if traffic diverts to truck under existing truck costs. The suggestions however deal only with the rail movements that appear over-priced to the point of diverting, not recognizing that there is also a rate problem with the underpriced traffic which was retained in the base case. The failure to adjust rates on the underpriced traffic along with the over-priced traffic could lead to scenario results that under-state diversion. Since its original development, USDOT has recognized that revenues on some traffic are understated and has calibrated the model to account for understated revenues on those waybill records as well as the original calibration for records with overstated revenues.

Billed Versus Actual Weight

Freight weight statistics from the Waybill are based on billed rather than actual lading weights. Carloads may be weighed for a variety of reasons: for example, to ensure that minimum tariff weights are met, that equipment is not overloaded, and that the shipper receives a full load. However, in an increasing number of cases, weighing today is not required as other methods (i.e., shipment conditions) are available to ensure the requirements for proper rate application have been made.¹³ Consequently, the STB has not required that actual weights be provided on all waybills as mandatory. While the absolute incidence of reporting actual weights fell from 23.9 percent of the waybills in the 1984 Sample to 17.4 percent in the 1994 Sample, the number of useable responses actually fell to slightly less than 14 percent of the 1994 Sample.¹⁴ While the overall difference between billed and actual weights may be small, there does exist statistically significant variation among many individual commodities (see Table 5).¹⁵ Consequently, the use of billed weights in certain types of waybill analysis can lead to biased conclusions for a variety of reasons. For one, tariff weight structures may change without a corresponding alteration in actual weight.

What is at issue is the degree to which Waybill Sample data may be utilized and still accurately reflect aggregate industry-wide activity. While it is clear that differences between actual and billed weight are minor, it is unwise to extrapolate weight related calculations to multiple decimal point levels of precision. Overall, failure to recognize issues related to billed versus actual weights may result in analysis measuring changes in billing methods and price application across time rather than the topic originally focused upon.

Freight Mandatory Rule 11

With the cancellation of joint rates and the desire to receive quicker revenue settlements and remain competitive, railroads are increasingly making use of this accounting rule which allows them to rebill deregulated traffic. Apart from the rebill designation on the waybill, these waybills appear to be local movements. Use of rebilling can be illustrated in the high portion of waybill movements which appear to originate or terminate in the state of Illinois. Over the years, Illinois appeared to originate and terminate more carloads than the west coast states of California, Oregon, and Washington combined. In actuality, many of these movements involved long-distance traffic which was rebilled in Chicago. However, estimates of true commodity length of haul may be understated. As transcontinental shipments are often billed as two or more separate waybills, the Waybill Sample will not indicate a true representation of mini-bridge movements, although it will provide accurate estimates of import or export traffic.

Freight Mandatory Rule 11 rebilling has the effect of overstating tonnage and units (car loads and intermodal boxes) and understating the length of haul in the Waybill Sample. Each rebilled waybill record in the sample double counts the tonnage and units of the originating waybill. Although the total distance moved by rebilled traffic is captured in full, length-of-haul statistics are understated by showing a single shipment as two, shorter-haul, shipments. Ton-mile statistics from the sample, however, are not affected by rebilled traffic.

In order to determine the extent to which rebilling affects Waybill summary statistics, a methodology for determining what traffic in the sample is rebilled must be devised. To this end, we extended a methodology used by Manalytics, Inc. in a 1991 study on rubber-tired interchange.¹⁶ Preliminary analysis using this methodology indicate that rebilling of intermodal units increased from 351,000 units in 1984 to 1,146,000 in 1994 (see Table 6). Over the same

period, rebilled carload tonnage increased from five million tons in 1984 to forty-five million tons in 1994 (see Table 7).

The implications of rebilled traffic in the Waybill Samples must be considered when using them for analyses. For example, preliminary analysis of intermodal traffic from waybill samples for 1984 and 1994 indicates that the number of intermodal units moving 500 miles or less, increased by 1,006,000 units between the two years. After adjusting for apparent rebilling, however, the volume increase in this mileage block falls to 607,000 units. The same analysis shows that before adjusting for rebilling, the number of intermodal units moving 2,500 miles and over, decreased by 42,000 units between 1984 and 1994. When adjusted for rebilling, the data indicate an increase in volume for this mileage block of 273,000 units (see Table 8).

Without recognizing, and adjusting for, an increase in rebilled traffic over time, growth and modal share analyses will be biased, overstating growth and modal share in shorter lengths of haul and in total and understating growth and modal share in longer lengths of haul. (Modal shares measured in boxes or tonnage will be misstated whether classified by length-of-haul or in total. Measured in ton-miles, modal share will be misstated when classified by length-of-haul, but not in total.) Conversely, should railroad billing practices change due to mergers or changes in interline billing agreements and the trend in rebilling reversed, growth for shorter lengths of haul and in total would be understated and growth for longer lengths of haul would be overstated. Analyses that do not address the issue of rebilled traffic in the Waybill Sample are likely to lead to erroneous conclusions.

Adjustment for Intermodal Carloadings

Intermodal traffic records captured in the Waybill Sample contain the number of intermodal units (boxes) and the number of cars for the waybills sampled. Because much of intermodal traffic is billed at single unit prices, some 90 percent of the intermodal records in the 1992 Sample were one box/one car combinations, even where the car contained multiple platforms. Because of the one-to-one box-to-car billing demographics of intermodal traffic, the Waybill Sample overstates the number of intermodal cars moved during the sample period. Given the high incidence of one box/one car billing for intermodal traffic, analysis of the Waybill Sample to determine intermodal car utilization or intermodal car costing will be inaccurate. In order to address the overstatement of intermodal cars in the sample, a logical adjustment should be made for restating the number of intermodal cars in the sample before analysis is undertaken.

One methodology to adjust the number of intermodal cars in the sample was developed as part of a long-term planning project for the Association of American Railroad's Research and Test Department. This methodology, applied to the 1992 Waybill Sample, adjusted the number of intermodal carloads by using the Universal Machine Language Equipment Register (Umler) car-type in the Waybill record and applying the number of platforms from the Umler Specification Manual. The number of cars on the waybill were adjusted to reflect the assignment of boxes to platforms rather than to cars. The adjustment assumed a platform utilization factor provided by the Research and Test Department and was applied only to the one box/one car intermodal records from the sample. The number of platforms assigned to each intermodal car was based on the Umler car-type specification of the waybill record. For records with Umler car-type 'P' (conventional intermodal cars) or 'Q' (lighter weight, low profile intermodal cars) showing more than one platform, an 80 percent platform utilization rate was assumed. Records with Umler car-type 'S' (double stack cars) were assigned an 88 percent platform utilization rate.

The effect of the adjustment methodology was to reduce 'P' cars in the Sample by 30 percent, 'Q' cars by 60 percent and 'S' cars by 70 percent.¹⁷ Overall, intermodal carloads in the Sample were reduced by 43 percent. With the adjustment, statistics for number of boxes per car went from 1.07 to 1.53 for Umler 'P' cars, from 1.01 to 2.53 for Umler 'Q' cars and from 1.34 to 4.54 for Umler 'S' cars (see table 9).

To test the validity of the adjustment process, sample data for unadjusted and adjusted car-miles were compared with data reported in railroad 1992 R-1 reports to the ICC. Table 10 shows how the intermodal car count adjustment affected the number of carloads in the sample and how the adjusted numbers compare with data reported in the R-1 annual reports. Before adjustment, intermodal car-miles accounted for 42 percent of total car-miles in the sample. After adjustment, intermodal car-miles accounted for 28 percent of total car-miles. The percentage of intermodal car-miles reported by Class I railroads in R-1 annual reports to the ICC for 1992 was 26 percent of total car-miles.

CONCLUSIONS

Collected for regulatory purposes by the ICC (now the STB), the Carload Waybill Sample receives broad application of use in rate cases, development of costing systems, productivity studies, market dominance and merger studies, and deregulatory evaluations. In addition, the sample is often used as a tool for studies of rail traffic demographics. Due to flexibility in billing methods and reporting procedures for contract rates, results of these secondary type of analyses can be misleading if the analyst does not recognize the effects that reporting procedures may have on the data integrity of the fields being analyzed.

Waybill samples have been collected for nearly a century. Since 1946, a continuous sample of all carload traffic has been taken on an annual basis. Beginning in 1981, the Waybill sampling methodology was modified to improve the sample's quality with respect to the regulatory purposes for which it is collected. In addition to providing more expansive and higher quality data, the improvements from Ex Parte No. 385 allowed both the rail industry and the ICC (and STB) to reduce costs associated with this data collection process.

Although the Waybill Sample contains a plethora of rail demographic data, care must be exercised in its use beyond the primary reason for its collection. When properly interpreted, the data can be helpful in detailing the current rail industry and general trends in the industry when compared across years.¹⁸

However, due to variations in billing and submission methods which may occur across years, studies requiring extreme precision and consistency, such as those related to productivity analyses, do not lend themselves to use of the Waybill Statistics. Common areas of misunderstanding in applying the sample to analyses include: the effects of calculated rate flag reporting on freight revenue analysis; the effects of Freight Mandatory Rule 11 rebilling on volume and flow analyses; and the effects of intermodal billing practices on carload volumes of intermodal traffic.

TABLE 1

ESTIMATED CARLOAD WAYBILL SAMPLING RATES

YEAR	SAMPLING RATE (In Percent)	
	1973-1980	1981-1994
1981		1.8
1982		2.3
1983		2.46
1984		2.81
1985		2.99
1986		2.95
1987		2.93
1988		2.91
1989		2.95
1990		2.95
1991		2.94
1992		2.92
1993		2.90
1994		2.83

TABLE 2
HARDCOPY SAMPLING STRATA

ENDING WAYBILL SERIAL NUMBER	SAMPLING RATE	SAMPLE PERCENT	NUMBER OF CARLOADS LISTED ON THE WAYBILL
01 or just "1"	1 of 100	1.0%	1-5
1 or 5	1 of 5	20.0%	6-15
1 or 5	1 of 5	20.0%	16 or greater

Source: Hardcopy Sample Submission (OPAD-1) form

TABLE 3**MRI SAMPLING STRATA**

# OF CARLOADS ON WAYBILL	SAMPLING RATE	SAMPLE PERCENT
1 - 2	1 in 40 waybills	2.50%
3 - 15	1 in 12 waybills	8.33%
16 - 60	1 in 4 waybills	25.0%
60 - 100	1 in 3 waybills	33.3%
101 and greater	1 in 2 waybills	50.0%

Source: MRI Sample submission (OPAD-1) form.

TABLE 4**1988 UNIT TRAIN RECORDS (50+ CARLOADS) OF STCC 01137
630 Mile Movement From Oklahoma City BEA To Houston BEA**

<u>Freight Revenue</u>	<u>Carloads</u>	<u>Tons Per Car</u>	<u>Revenue Per Carmile</u>
\$ 257,656	120	100	\$ 3.41
\$ 257,410	120	100	\$ 3.40
\$ 175,308	120	95	\$ 2.32
\$ 82,127	65	100	\$ 2.01
-----	-----	-----	-----
24 records with revenue per carmile between \$1.90 and \$2.00 inclusive			
-----	-----	-----	-----
\$ 135,571	120	100	\$ 1.79
\$ 129,602	120	100	\$ 1.71
\$ 127,910	120	100	\$ 1.69
\$ 127,830	120	100	\$ 1.69
\$ 123,029	119	100	\$ 1.64
\$ 123,428	120	100	\$ 1.63
\$ 121,729	120	100	\$ 1.61
\$ 113,673	120	100	\$ 1.50
\$ 106,517	120	100	\$ 1.41
\$ 106,688	120	100	\$ 1.41
\$ 109,479	124	100	\$ 1.40
\$ 105,718	120	100	\$ 1.40
\$ 105,427	120	100	\$ 1.39
\$ 104,614	120	100	\$ 1.38
\$ 103,863	120	100	\$ 1.37
\$ 96,334	120	95	\$ 1.27
\$ 182,948	230	100	\$ 1.26
\$ 93,850	120	100	\$ 1.24
\$ 92,750	120	95	\$ 1.23
\$ 89,535	120	100	\$ 1.18
\$ 84,611	120	100	\$ 1.12
\$ 84,106	120	100	\$ 1.11
\$ 81,470	120	100	\$ 1.08
\$ 57,876	120	100	\$ 0.77
\$ 54,713	120	100	\$ 0.72
\$ 5,579	120	100	\$ 0.07
\$ 1,976	120	100	\$ 0.03
\$ 0	120	100	\$ 0.00

Source: 1988 ICC Public Use Waybill Sample

TABLE 5**BILLED VERSUS ACTUAL TONNAGE PER CARLOAD TERMINATED**

STC CODE	ACTUAL WEIGHT (1984)	BILLED WEIGHT (1984)	SIGNIFICANT DIFFERENCE (1984)	ACTUAL WEIGHT (1994)	BILLED WEIGHT (1994)	SIGNIFICANT DIFFERENCE (1994)
01	82.24	83.36	0.05	67.13	73.39	0.01
10	81.60	81.78		74.57	76.37	0.01
11	91.44	92.43	0.01	93.87	99.76	0.01
13	59.08	59.08		48.94	82.30	0.01
14	88.32	90.08	0.01	83.05	88.46	0.01
20	57.70	59.33	0.01	58.10	61.52	0.01
24	59.78	64.19	0.01	59.31	69.63	0.01
26	51.13	53.88	0.01	52.32	58.33	0.01
28	79.76	83.09	0.01	79.56	85.38	0.01
29	60.82	68.29	0.01	57.47	70.98	0.01
32	76.75	79.57	0.01	67.79	76.02	0.01
33	74.19	75.09		75.12	78.75	0.01
37	21.51	23.04	0.01	22.88	23.03	
40	57.77	59.43	0.05	60.59	63.06	0.01
42	10.70	10.87		7.69	8.23	0.05
49	69.29	72.72	0.01	55.50	59.90	0.01
ALL	61.00	62.62	0.01	49.34	53.07	0.01

Source: STB Carload Waybill Samples for 1984 and 1994.

TABLE 6**WAYBILL SAMPLE INTERMODAL TRAFFIC:
SAMPLE TONNAGE AND UNIT TOTALS - POTENTIAL REBILLED VOLUMES**

Year	Waybill Sample Total Tonnage	Potential Rebill Tonnage	Rebill Percent of Total	Waybill Sample Total Units	Potential Rebill Units	Rebill Percent of Total
1984	65,709,569	5,884,253	8.95%	4,380,059	350,540	8.00%
1986	71,753,167	9,051,980	12.62%	4,865,057	542,094	11.14%
1988	84,867,760	7,771,731	9.16%	5,770,674	531,444	9.21%
1990	92,203,975	7,756,192	8.41%	6,112,315	504,848	8.26%
1992	107,379,069	9,956,560	9.27%	7,207,637	772,039	10.71%
1994	131,588,149	17,395,251	13.22%	8,812,037	1,145,686	13.00%

SOURCE: STB Waybill Sample for selected years.

TABLE 7**WAYBILL SAMPLE CARLOAD TRAFFIC:
SAMPLE TONNAGE AND CAR TOTALS AND POTENTIAL REBILLED VOLUMES**

Year	Waybill Sample Total Tonnage	Potential Rebill Tonnage	Rebill Percent of Total	Waybill Sample Total Cars	Potential Rebill Cars	Rebill Percent of Total
1984	1,434,453,461	4,786,593	0.33%	18,189,281	64,297	0.35%
1986	1,405,012,392	18,093,804	1.29%	17,373,740	208,971	1.20%
1988	1,580,679,998	20,799,542	1.32%	19,153,156	238,110	1.24%
1990	1,579,341,368	19,219,260	1.22%	18,896,039	238,516	1.26%
1992	1,543,389,810	26,051,117	1.69%	18,418,596	487,499	2.65%
1994	1,650,150,770	44,518,645	2.70%	19,632,555	761,552	3.88%

SOURCE: STB WAYBILL SAMPLE FOR SELECTED YEARS

TABLE 8**INTERMODAL UNITS BY LENGTH OF HAUL:
UNADJUSTED AND ADJUSTED FOR REBILLING**

LENGTH OF HAUL (MILES)	UN. ADJUSTED (A)	REBILL. ADJUST. (B)	UN. ADJUSTED (C)	REBILL. ADJUSTED (D)	UN. ADJUSTED (E)	REBILL. ADJUSTED (F)	UN. ADJUSTED (G)	REBILL. ADJUSTED (H)	UN. ADJUSTED (I)	REBILL. ADJUSTED (J)
0-500	624,611	90,560	0	536,051	1,640,813	361,446	3,200	1,142,566	1,004,201	606,315
500-1000	1,377,378	274,540	5,680	1,108,338	2,312,753	790,736	52,940	1,574,950	935,457	466,621
1000-1500	624,747	112,800	44,900	576,907	1,193,700	223,160	176,800	1,144,620	509,633	383,713
1500-2000	387,380	34,400	75,300	428,180	1,220,834	230,230	118,696	1,109,320	833,474	681,140
2000-2500	871,830	132,940	13,800	731,690	2,000,318	463,400	218,166	1,753,284	1,128,468	1,021,584
2500-UP	483,013	27,840	211,180	669,353	443,338	78,400	576,664	941,682	(41,673)	173,246
TOTAL	4,388,029	701,080	358,540	4,029,519	8,012,937	2,291,372	1,143,886	7,666,331	4,431,978	3,636,832

SOURCE: ICC WAYBILL SAMPLE FOR SELECTED YEARS

TABLE 9**INTERMODAL BOXES PER CAR
UNADJUSTED CARS AND ADJUSTED CARS**

UMLER CARTYPE	INTERMODAL BOXES	UNADJUSTED CARS	UNADJUSTED BOXES PER	ADJUSTED CARS	ADJUSTED BOXES PER
P	4,420,129	4,130,822	1.07	2,893,948	1.53
Q	1,097,246	1,088,202	1.01	433,417	2.53
S	1,681,982	1,255,178	1.34	370,727	4.54
ALL P,Q,S	7,199,357	6,474,202	1.11	3,698,092	1.95

SOURCE: 1993 ICC WAYBILL SAMPLE AND UMLER SPECIFICATION MANUAL

TABLE 10**RAIL CARMILES BY CAR TYPE
COMPARISON OF UNADJUSTED WAYBILL WITH ADJUSTED WAYBILL
AND ANALYSIS OF CLASS I RAILROADS DATA
(in thousands)**

CAR TYPE	UN- ADJUSTED WAYBILL SAMPLE CARMILES	% OF TOTAL	ADJUSTED WAYBILL SAMPLE CARMILES	% OF TOTAL	ANALYSIS OF CLASS I's LOADED CARMILES	% OF TOTAL
AUTOFLAT	950,645	4.76%	950,645	5.88%	971,583	7.58%
BOXCAR	1,717,094	8.60%	1,717,094	10.61%	1,644,445	12.83%
G.S. FLAT	11,762	0.06%	11,762	0.07%	15,774	0.12%
GONDOLA	2,206,144	11.05%	2,206,144	13.64%	1,095,624	8.55%
HOPPER	4,460,889	22.34%	4,460,889	27.57%	3,845,404	30.00%
OTHER	42,244	0.21%	42,244	0.26%	173,108	1.35%
OTHER FLAT	456,279	2.29%	456,279	2.82%	363,241	2.83%
REFRIG.	489,242	2.45%	489,242	3.02%	513,134	4.00%
TANKER	1,171,885	5.87%	1,171,885	7.24%	892,059	6.96%
CARLESS	91,688	0.46%	91,688	0.57%	NOT SEPARATELY LISTED	
STACK	1,938,716	9.71%	633,906	3.92%	INCLUDED IN TOFC/COFC	
TOFC/COFC	6,428,937	32.20%	3,947,637	24.40%	3,302,350	25.77%
TOTAL	19,965,525	100.00%	16,179,414	100.00%	12,816,722	100.00%

SOURCE: 1992 ICC WAYBILL SAMPLE AND '1992 ANALYSIS OF CLASS I RAILROADS'

FIGURE 1

DECREASED USE OF SINGLE CAR BILLING HAS INCREASED THE INCIDENCE OF MULTIPLE CAR WAYBILLS SINCE 1980

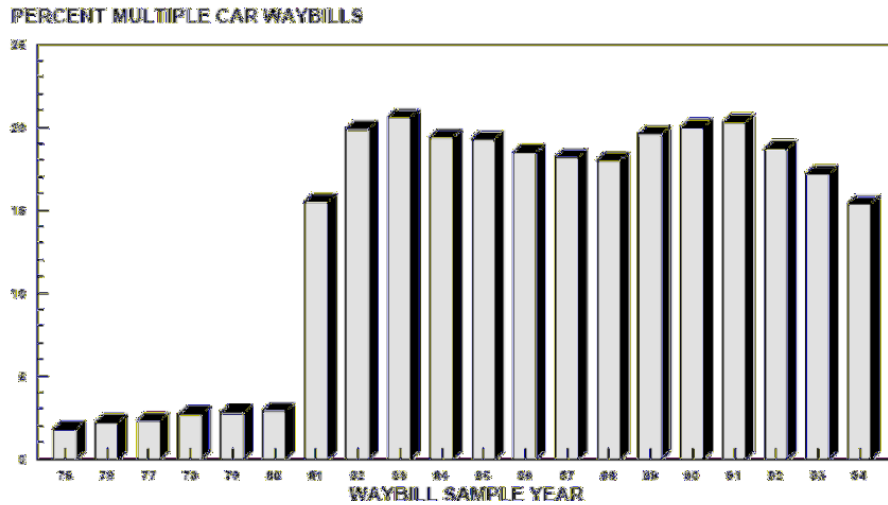
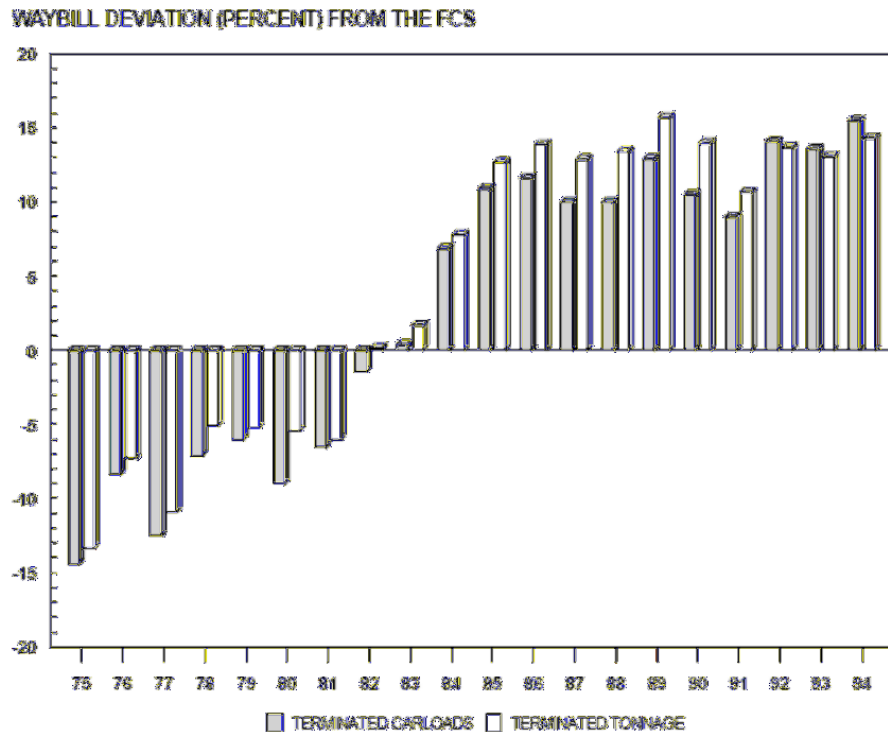


FIGURE 2

THE WAYBILL SAMPLE ACCURATELY REFLECTS RAILROAD ACTIVITY



Appendix B: TRAIN II

The TRAIN II system was developed from the need for industry-wide control of car location and utilization to enable better management of the car fleet. It is used to monitor the full movement cycle of equipment from the time it is loaded to the time it is unloaded and returned to its owner. The system provides up-to-date information on railroad car locations and increases the flow of the car fleet industry wide.

TRAIN II input includes:

- Placements
- Loading Reports
- Origin and Destination Reports
- Interchanges
- Regional Boundary Crossings
- Arrivals at Destination
- Unloadings
- Bad Order Storage/Hold Reports
- Empty Car Destination Reports
- Car Grade Inspections
- Early Warning Inspections
- ETA (Estimated Time of Arrival)
- Ramped and Deramped
- Shipper Rejection Reasons

With the TRAIN II system, a railroad can request a status (location) on any car and Railinc will respond with the latest data. This is done in a real-time environment. Parameter Trace and Service Monitoring provides tracing without a need to query or otherwise know the equipment initial and number. A parameter record (TRAIN17&18) containing selection criteria will be matched against every Waybill which contains the requesting road in the route. If a match is found, car movement and interchange data (TRAIN76) will be sent to the requesting road until that loaded cycle is complete. Data can be furnished in batch (every 30 minutes) or real time (as received at Railinc).

Interchange Reports are sent to Railinc using a TRAIN10, TRAIN01 or TRAIN31 message and inform the TRAIN II System of the exchange of freight equipment between railroads. Use of the TRAIN10 syntax is encouraged. The TRAIN10 is the most comprehensive of the event reporting messages and includes new features not available in TRAIN01/31 messages.

Appendix C

This example details how events from a trip are selected to mile a waybill in the sample.

This waybill sample record shows a movement from Laredo, TX to Chicago, IL on Railroad #2.

Origin Railroad	Origin SPLC	Destination Railroad	Destination SPLC	Waybill Route
Railroad #2	TX, US	Railroad #2	IL, US	TX, US-Railroad #2-IL, US

All the event data for the trip is pulled to start the process. The trip that this waybill matched was from Texas to Illinois. The trip started with a released load (RLOD) event on Railroad #1 and ended with a placement actual (PACT) on Railroad #4. The Railroad #2 waybill reported in the sample represents the Railroad #2 portion of the trip.

The events highlighted in yellow in the Event Data table are selected as the SOT and EOT events for calculating miles for the Railroad #2 waybill sample record shown above. In this example, multiple matches are available for the SOT and EOT. The earliest reported best match is used. All the event in yellow and grey are paired and miled to create the total miles for this waybill.

Event Types

EVENT_CODE	EVENT_DESC
ICHD	INTERCHANGE DELIVERY
ICHR	INTERCHANGE RECEIPT
RLOD	RELEASE LOAD
PFPS	PULL FROM PATRON SIDING
ARRI	ARRIVAL AT FINAL DESTINATION
ARIL	ARRIVAL INTRANSIT
PACT	PLACEMENT-ACTUAL
DFLC	DEPARTED FROM LOCATION

Event Data

SOT and EOT Match	Event Timestamp	Event Type	Message Road	Message From Road	Message To Road	Location*
EQC Start of Trip	13FEB22:06:34	RLOD	Railroad #1	Railroad #1		NM, US
	13FEB22:06:39	PFPS	Railroad #1	Railroad #1		NM, US
	13FEB22:17:41	DFLC	Railroad #1	Railroad #1		NM, US
	13FEB22:22:06	ARIL	Railroad #1	Railroad #1		NM, US
	13FEB22:22:08	DFLC	Railroad #1	Railroad #1		NM, US
	14FEB22:06:56	ARIL	Railroad #1	Railroad #1		NM, US
	14FEB22:07:03	DFLC	Railroad #1	Railroad #1		NM, US
SOT Location Match	14FEB22:16:24	ARIL	Railroad #1	Railroad #1		TX, US
SOT Natural Match	14FEB22:16:29	ICHR	Railroad #2	Railroad #1	Railroad #2	TX, US
SOT Location Match	14FEB22:16:29	ICHD	Railroad #1	Railroad #1	Railroad #2	TX, US
SOT Natural Match	14FEB22:20:00	DFLC	Railroad #2	Railroad #2		TX, US
	16FEB22:02:49	ARIL	Railroad #2	Railroad #2		TX, US
	16FEB22:02:52	DFLC	Railroad #2	Railroad #2		TX, US
	16FEB22:02:53	DFLC	Railroad #2	Railroad #2		TX, US
	16FEB22:03:33	DFLC	Railroad #2	Railroad #2		TX, US
	16FEB22:04:14	DFLC	Railroad #2	Railroad #2		TX, US
	16FEB22:04:47	DFLC	Railroad #2	Railroad #2		TX, US
	16FEB22:04:49	ARIL	Railroad #2	Railroad #2		AR, US
	16FEB22:04:50	DFLC	Railroad #2	Railroad #2		AR, US
	16FEB22:21:51	DFLC	Railroad #2	Railroad #2		AR, US
	16FEB22:22:24	DFLC	Railroad #2	Railroad #2		AR, US
	16FEB22:23:05	ARIL	Railroad #2	Railroad #2		MO, US
	16FEB22:23:06	DFLC	Railroad #2	Railroad #2		MO, US
	17FEB22:00:07	ARIL	Railroad #2	Railroad #2		MO, US
	17FEB22:01:41	DFLC	Railroad #2	Railroad #2		MO, US
	17FEB22:04:07	ARIL	Railroad #2	Railroad #2		IL, US
	17FEB22:04:11	DFLC	Railroad #2	Railroad #2		IL, US
	17FEB22:09:43	ARIL	Railroad #2	Railroad #2		IL, US
	17FEB22:09:46	ICHD	Railroad #2	Railroad #2	Railroad #3	IL, US
	17FEB22:09:46	ICHR	Railroad #3	Railroad #2	Railroad #3	IL, US
	18FEB22:12:13	ICHR	Railroad #2	Railroad #3	Railroad #2	IL, US
	18FEB22:14:55	DFLC	Railroad #3	Railroad #3		IL, US
	18FEB22:15:00	ICHD	Railroad #3	Railroad #3	Railroad #2	IL, US
	18FEB22:17:03	DFLC	Railroad #2	Railroad #2		IL, US
	18FEB22:17:36	DFLC	Railroad #2	Railroad #2		IL, US
	18FEB22:21:58	DFLC	Railroad #2	Railroad #2		IL, US
	18FEB22:23:56	DFLC	Railroad #2	Railroad #2		IL, US
	19FEB22:00:09	ARIL	Railroad #2	Railroad #2		IL, US
	19FEB22:01:00	DFLC	Railroad #2	Railroad #2		IL, US
	19FEB22:09:50	ARIL	Railroad #2	Railroad #2		IL, US
	19FEB22:09:51	DFLC	Railroad #2	Railroad #2		IL, US

SOT and EOT Match	Event Timestamp	Event Type	Message Road	Message From Road	Message To Road	Location*
	19FEB22:09:51	DFLC	Railroad #2	Railroad #2		IL, US
EOT Approximate Match	19FEB22:18:33	ARIL	Railroad #2	Railroad #2		IL, US
EOT Approximate Match	20FEB22:01:28	DFLC	Railroad #2	Railroad #2		IL, US
	20FEB22:06:54	ARIL	Railroad #2	Railroad #2		IL, US
	23FEB22:07:55	ICHD	Railroad #2	Railroad #2	Railroad #4	IL, US
	25FEB22:12:21	DFLC	Railroad #4	Railroad #4		IL, US
	25FEB22:12:30	DFLC	Railroad #4	Railroad #4		IL, US
	25FEB22:16:49	DFLC	Railroad #4	Railroad #4		IL, US
	25FEB22:20:48	DFLC	Railroad #4	Railroad #4		WI, US
	25FEB22:21:36	DFLC	Railroad #4	Railroad #4		WI, US
	25FEB22:23:55	DFLC	Railroad #4	Railroad #4		WI, US
	26FEB22:01:50	DFLC	Railroad #4	Railroad #4		WI, US
	26FEB22:04:59	ARRI	Railroad #4	Railroad #4		MN, US
EQC End of Trip	27FEB22:08:15	PACT	Railroad #4	Railroad #4		MN, US

* Locations were abbreviated to state and country

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Endnotes

- * The views expressed in this paper are solely those of the authors and may not reflect the views of the Association of American Railroads or its members.
- 1. The Surface Transportation Board assumed responsibility for collection of the Waybill Sample from the Interstate Commerce Commission on January 1, 1996.
- 2. The last TRINCS was published in 1984 and contained 1983 data.
- 3. For an extensive discussion of the Waybill Sample, see Wolfe (1986).
- 4. Section 202 of the Staggers Act.
- 5. The Waybill is employed to create a revenue weighted output index. Refer to Ex Parte 290 (Sub-No. 4) Railroad Cost Recovery Procedures - Productivity Adjustment; served March 24, 1989, decided March 22, 1989.
- 6. Estimated from comparisons between Freight Commodity Statistics and expanded Waybill Sample data (for Class I carriers only) for involved years.
- 7. ICC, Ex Parte 385 (Sub-No. 3) p. 1. Service date, January 31, 1990.
- 8. Refer to Babcock (1981), Babcock et. al. (1985), Chow (1986), Fuller et. al. (1983, 1987), and MacDonald (1987)
- 9. For example, Fuller et. al. (1990) made use of 1983 to 1988 data (p.267)
- 10. ICC, Ex Parte 385 (Sub-No. 2). Service date, January 8, 1986. The same procedure applies to line haul, miscellaneous, and transit revenues.
- 11. The Sample's collection methodology was substantially altered in July of 1981. Data from before that time tended to exclude multiple car movements. Masking of contract rates through confidential scalar factors began in 1986. Refer to Wolfe (1986, 1991).
- 12. There are more extreme ranges of grain movement revenue-per-car-mile by origin-destination pair, with spreads exceeding \$10.00, in waybill samples than presented in the table. The traffic included in the table was selected because of the volume of traffic it represents, over 13,000 carloads.
- 13. Shipment conditions are standardized terminology employed to ensure that the circumstances required in the rate have been met (e.g., the movement took place in a particular type of car, owned by a particular party, interchanged at a particular gateway, etc.). In lieu of physically weighing the car, shipment conditions referring to loading a car "full visible capacity" are often employed to ensure proper rate application.
- 14. To facilitate a better comparison across years, multiple platform cars were excluded from this analysis. While only accounting for 56 instances (out of over 80,000) in the 1984 Sample where both actual and billed weights were provided, they accounted for 16,734 instances (out of 82,769) in the 1994 Sample. Exclusion was necessary as several carriers either bill or rebill intermodal movements on the basis of one unit per car. Consequently, comparison of per-car weights between waybills employing articulated intermodal equipment and those using other equipment (or billing practices) would lead to incorrect (downwardly biased) conclusions.

15. Results reported in Table 5 indicate where differences in group means were statistically significant at least at the .05 level (i.e., group means were statistically different at either the .01 or .05 level).
16. The methodology developed for this study involved matching waybill records moving within a 10-day spread of each other in the same intermodal box, of the same general commodity description and weight, which appeared to be a single movement which had been rebilled at a common interchange point. For this paper, the methodology has been extended to include carload traffic.
17. It should be noted that a number of intermodal records in the Sample have been assigned “dummy” car marks in lieu of the identifying mark for the car that the shipment actually moved on. In the 1992 Sample, 24% of the intermodal records showed one of four cars (TTX 000105, TTWX 971346, SOU 050100, TTWX 972800). All of these cars are 'P' cars with a first numeric between 5 and 8 and are thus assigned two platforms in the adjustment methodology.
18. Waybills collected during the period 1972 through 1981 are not strictly comparable with ones collected since Ex Parte No. 385 due to the under-reporting of multiple car shipments from the earlier years.