

2016

SURFACE TRANSPORTATION BOARD

CARLOAD WAYBILL SAMPLE

REFERENCE GUIDE

January 5, 2018



Business Services

TABLE OF CONTENTS

SECTION 1	Summary of 2016 Waybill Processing.....	1
	Waybills of US, Canadian & Mexican Origin.....	4
	Waybills of US Origin.....	9
	Waybills of Canadian Origin.....	14
	Waybills of Mexican Origin.....	19
SECTION 2	Error Analysis and Corrective Action	24
	2016 Reporting Railroads.....	33
	Proxy Equipment Types for the 2016 Carload Waybill Sample.....	34
SECTION 3	Data Exceptions.....	35
	Railinc Waybill Correction Process	35
	Railroad-Wide Corrections.....	36
	Contract Rate Flag.....	37
	TTX Train Assignments.....	37
SECTION 4	2016 Waybill Record Layouts and Waybill References	38
	900-Byte STB Waybill File Record Layout	39
	900-byte STB Waybill Data Element Descriptions	44
	Surface Transportation Board (STB) Codes.....	79
	Surface Transportation Codes (BEA County Listing).....	81
	2016 Surface Transportation Board Public Use Waybill 247-Byte Record Layout	99
	2016 Surface Transportation Board Public Use Waybill 247-Byte Record Data Element Descriptions.....	101
	STCC Headers.....	112
	Surface Transportation Board Car Types	164
	Umler Field Descriptions—Data Layout Detail	165
	AAR Equipment Type Code	169
	CS54 Group Codes.....	174
SECTION 5	2016 Waybill Miling Methodology	175
	Overview	176
	Step 1: Match Waybill Data to Railinc Event Repository Data.....	177
	Step 2: Utilize Waybill Pattern Matching.....	181
	Step 3: Utilize Enhanced Waybill Routing Logic	182
	Step 4: Final Processing	182
	Step 5: Apply Shortline Miles to the Final File.....	183
Appendix A: The Carload Waybill Statistics: Usefulness For Economic Analysis*	185
	The Carload Waybill Statistics: Usefulness For Economic Analysis	185
Appendix B: Train II.....		198
Appendix C		199
References		204

LIST OF TABLES AND FIGURES

Table 1-1. Standard Transportation Commodity Code Major Industry Group Numbers	3
Table 1-2. 2016 Waybill Sample—US, Canada & Mexico (Carloads, Revenue, and Tonnage by STCC Code).....	4
Table 1-3. Carload 3-Year History from Waybill Samples—US, Canada & Mexico (by STCC Code).....	5
Table 1-4. Revenue 3-Year History from Waybill Samples—US, Canada & Mexico (by STCC Code)	6
Table 1-5. Tonnage 3-Year History from Waybill Samples—US, Canada & Mexico (by STCC Code)	7
Figure 1-1. Top Six Commodity Groups and All Others—for US, Canada, & Mexico (3-Year History by Carloads, Revenue, and Tonnage)	8
Table 1-6. US Origin 2016 Waybill Sample—Carloads, Revenue, and Tonnage (by STCC Code)	9

Table 1-7. US Origin Carload 3-Year History from Waybill Samples (by STCC Code)	10
Table 1-8. US Origin Revenue 3-Year History from Waybill Samples (by STCC Code)	11
Table 1-9. US Origin Tonnage 3-Year History from Waybill Samples (by STCC Code)	12
Figure 1-2. US Origin Top Six Commodity Groups and All Others (3-Year History by Carloads, Revenue, and Tonnage)	13
Table 1-10. Canadian Origin 2016 Waybill Sample (Carloads, Revenue, and Tonnage by STCC Code)	14
Table 1-11. Canadian Origin Carload 3-Year History from Waybill Samples (by STCC Code)	15
Table 1-12. Canadian Origin Revenue 3-Year History from Waybill Samples (by STCC Code)	16
Table 1-13. Canadian Origin Tonnage 3-Year History from Waybill Samples (by STCC Code)	17
Figure 1-3. Canadian Origin Top Six Commodity Groups and All Others (3-Year History by Carloads, Revenue, and Tonnage)	18
Table 1-14. Mexican Origin 2016 Waybill Sample (Carloads, Revenue, and Tonnage by STCC Code)	19
Table 1-15. Mexican Origin Carload 3-Year History from Waybill Samples (by STCC Code)	20
Table 1-16. Mexican Origin Revenue 3-Year History from Waybill Samples (by STCC Code)	21
Table 1-17. Mexican Origin Tonnage 3-Year History from Waybill Samples (by STCC Code)	22
Figure 1-4. Mexican Origin Top Six Commodity Groups and All Others (3-Year History by Carloads, Revenue, and Tonnage)	23
Table 2-1. Umler Error Codes and Messages	25
Table 2-2. Proxy Equipment Types—2016 Carload Waybill Sample	34
Table 4-1. 900-Byte STB Waybill File Record Layout	39
Table 4-2. 900-Byte Waybill File Record Data Element Descriptions	44
Table 4-3. Revised Intermodal Service Plan Code Reporting	45
Table 4-4. STB BEA Codes	79
Table 4-5. Surface Transportation Codes (BEA County Listing)	81
Table 4-6. 247-Byte STB Public Use Waybill File Record Layout	99
Table 4-7. 247-Byte STB Public Use Waybill Data Element Descriptions	101
Table 4-8. Revised Intermodal Service Plan Code Reporting	102
Table 4-9. STB Car Types	164
Table 4-10. Umler Field Descriptions—Data Layout Detail	165
Figure 4-1. U.S. Census Bureau Regions	170
Figure 4-2. U.S. Census Bureau Region Map	171
Table 5-1. Three Step Methodology	176
Table 5-2. A Summary of the SOT and EOT Match Types	178
Table 5-3. Waybill Route vs. Event Route	179
Table 5-4. Example with Mileage Assignment	180

SECTION 1 SUMMARY OF 2016 WAYBILL PROCESSING

Railinc has collected and processed 649,772 waybills for inclusion in the 2016 Carload Waybill Sample. Of this total, 649,772 (100 percent) were submitted electronically. This 2016 figure is less than 2015 levels.

As of the August 1, 2017 cutoff date for processing the 2016 Sample, there were no late reporting roads.

*Table 1-2 provides a detailed breakdown of the total 2016 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 (2014–2016) **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 (2014–2016) **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 (2014–2016) **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 2016 Waybills with United States origins only. U.S. origins accounted for 631,574 originated waybills (94.8% percent of those sampled).

Table 1-7 provides a Three Year (2014–2016) **Carload** History from Waybill Statistics by two-digit Standard Transportation Commodity Code (STCC). US Origins Only.

*Table 1-8 provides a Three Year (2014–2016) **Revenue** History from Waybill Statistics by two-digit Standard Transportation Commodity Code (STCC). US Origins Only.

Table 1-9 provides a Three Year (2014–2016) **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 2016 Waybill traffic for Canadian originations only. Canadian originations were a smaller percent of the total sample than in 2014, accounting for 32,561 originated waybills, 4.89% of the total sample.

Table 1-11 provides a Three Year (2014–2016) **Carload** History from Waybill Statistics by two-digit Standard Transportation Commodity Code (STCC). Canadian Origins Only.

*Table 1-12 provides a Three Year (2014–2016) **Revenue** History from Waybill Statistics by

two-digit Standard Transportation Commodity Code (STCC). Canadian Origins Only.

Table 1-13 provides a Three Year (2014–2016) **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 2016 Waybill traffic for Mexican originations only. Mexican originations were a slightly larger percent of the total sample than in 2014, accounting for 2,269 originated waybills, 0.3% of the total sample.

Table 1-15 provides a Three Year (2014–2016) **Carload** History from Waybill Statistics by two-digit Standard Transportation Commodity Code (STCC). Mexican Origins Only.

*Table 1-16 provides a Three Year (2014–2016) **Revenue** History from Waybill Statistics by two-digit Standard Transportation Commodity Code (STCC). Mexican Origins Only.

Table 1-17 provides a Three Year (2014–2016) **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. Because 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. 2016 Waybill Sample—US, Canada & Mexico (Carloads, Revenue, and Tonnage by STCC Code)

2016							
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	18,749	1,843,942	5.4%	6,567,932,288	8.0%	167,982,75	8.8%
08	55	2,200	0.0%	9,779,440	0.0%	103,680	0.0%
09	72	2,880	0.0%	4,161,560	0.0%	54,920	0.0%
10	2,669	595,853	1.7%	435,163,253	0.5%	50,790,193	2.7%
11	19,993	4,998,349	14.6%	11,140,513,203	13.5%	587,363,79	30.7%
13	7	702	0.0%	2,239,266	0.0%	50,994	0.0%
14	12,904	1,564,609	4.6%	3,085,635,724	3.8%	160,843,65	8.4%
19	36	1,780	0.0%	27,393,272	0.0%	146,872	0.0%
20	44,330	2,002,819	5.8%	6,714,797,714	8.2%	133,523,13	7.0%
21	3	120	0.0%	231,200	0.0%	920	0.0%
22	511	20,440	0.1%	24,061,920	0.0%	266,160	0.0%
23	11,592	463,680	1.4%	584,238,440	0.7%	5,438,480	0.3%
24	13,321	551,500	1.6%	2,712,383,536	3.3%	45,012,916	2.4%
25	3,283	131,320	0.4%	190,684,120	0.2%	1,424,640	0.1%
26	22,137	885,732	2.6%	2,969,419,592	3.6%	42,642,376	2.2%
27	1,087	43,480	0.1%	53,461,960	0.1%	721,440	0.0%
28	35,005	1,604,909	4.7%	6,951,243,628	8.4%	140,918,58	7.4%
29	5,673	371,865	1.1%	1,091,413,513	1.3%	31,557,645	1.6%
30	5,716	228,640	0.7%	311,079,560	0.4%	2,981,680	0.2%
31	91	3,640	0.0%	9,119,680	0.0%	39,240	0.0%
32	11,471	538,433	1.6%	2,084,530,226	2.5%	49,768,986	2.6%
33	12,835	576,170	1.7%	2,617,938,394	3.2%	49,765,150	2.6%
34	2,392	95,760	0.3%	166,067,060	0.2%	1,217,768	0.1%
35	2,543	110,964	0.3%	309,724,242	0.4%	2,096,205	0.1%
36	5,096	203,928	0.6%	332,644,216	0.4%	2,234,120	0.1%
37	67,302	2,786,475	8.1%	8,857,246,016	10.8%	56,548,664	3.0%
38	318	12,720	0.0%	18,241,880	0.0%	173,120	0.0%
39	1,939	77,560	0.2%	106,102,880	0.1%	701,560	0.0%
40	12,510	607,080	1.8%	1,407,298,489	1.7%	42,748,070	2.2%
41	4,286	184,210	0.5%	401,486,627	0.5%	2,084,591	0.1%
42	38,320	1,532,880	4.5%	838,892,004	1.0%	5,153,344	0.3%
43	49	1,960	0.0%	1,696,840	0.0%	35,960	0.0%
44	2	80	0.0%	74,000	0.0%	1,600	0.0%
45	37	1,480	0.0%	3,126,280	0.0%	35,200	0.0%
46	232,606	9,304,436	27.1%	10,863,823,952	13.2%	125,502,66	6.6%
47	3,145	125,892	0.4%	249,917,328	0.3%	1,184,924	0.1%
48	402	16,160	0.0%	83,471,760	0.1%	1,050,640	0.1%
49	57,285	2,836,708	8.3%	11,051,285,407	13.4%	200,627,10	10.5%
50	0	0	0.0%	0	0.0%	0	0.0%
TOTALS	649,772	34,331,356	100.0%	\$82,278,520,470	100.0%	1,912,793,743	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	2016		2015		2014	
	Total Carloads	Percent of Population	Total Carloads	Percent of Population	Total Carloads	Percent of Population
01	1,843,942	5.4%	1,762,744	4.9%	1,780,067	4.9%
08	2,200	0.0%	2,440	0.0%	2,560	0.0%
09	2,880	0.0%	3,160	0.0%	5,020	0.0%
10	595,853	1.7%	687,008	1.9%	867,900	2.4%
11	4,998,349	14.6%	6,140,585	17.0%	6,844,464	18.7%
13	702	0.0%	5,381	0.0%	4,189	0.0%
14	1,564,609	4.6%	1,659,541	4.6%	1,690,367	4.6%
19	1,780	0.0%	1,915	0.0%	1,683	0.0%
20	2,002,819	5.8%	2,056,547	5.7%	2,025,569	5.5%
21	120	0.0%	120	0.0%	440	0.0%
22	20,440	0.1%	21,360	0.1%	24,280	0.1%
23	463,680	1.4%	434,120	1.2%	412,200	1.1%
24	551,500	1.6%	558,012	1.5%	557,700	1.5%
25	131,320	0.4%	152,240	0.4%	142,120	0.4%
26	885,732	2.6%	932,440	2.6%	914,316	2.5%
27	43,480	0.1%	38,640	0.1%	36,000	0.1%
28	1,604,909	4.7%	1,579,599	4.4%	1,519,078	4.1%
29	371,865	1.1%	334,587	0.9%	327,625	0.9%
30	228,640	0.7%	204,800	0.6%	192,480	0.5%
31	3,640	0.0%	3,320	0.0%	3,320	0.0%
32	538,433	1.6%	548,297	1.5%	564,668	1.5%
33	576,170	1.7%	615,159	1.7%	707,036	1.9%
34	95,760	0.3%	105,396	0.3%	109,876	0.3%
35	110,964	0.3%	102,367	0.3%	103,119	0.3%
36	203,928	0.6%	178,852	0.5%	172,908	0.5%
37	2,786,475	8.1%	2,611,829	7.2%	2,424,647	6.6%
38	12,720	0.0%	12,640	0.0%	12,360	0.0%
39	77,560	0.2%	80,160	0.2%	70,680	0.2%
40	607,080	1.8%	581,635	1.6%	633,495	1.7%
41	184,210	0.5%	167,294	0.5%	163,827	0.4%
42	1,532,880	4.5%	1,818,324	5.0%	1,724,360	4.7%
43	1,960	0.0%	3,880	0.0%	4,160	0.0%
44	80	0.0%	160	0.0%	160	0.0%
45	1,480	0.0%	1,200	0.0%	1,360	0.0%
46	9,304,436	27.1%	9,511,576	26.4%	9,510,708	25.9%
47	125,892	0.4%	132,960	0.4%	146,080	0.4%
48	16,160	0.0%	18,355	0.1%	27,570	0.1%
49	2,836,708	8.3%	3,015,784	8.4%	2,969,038	8.1%
50	-	0.0%	0	0.0%	200	0.0%
TOTALS	34,331,356	100.0%	36,084,427	100.0%	36,697,630	100.0%

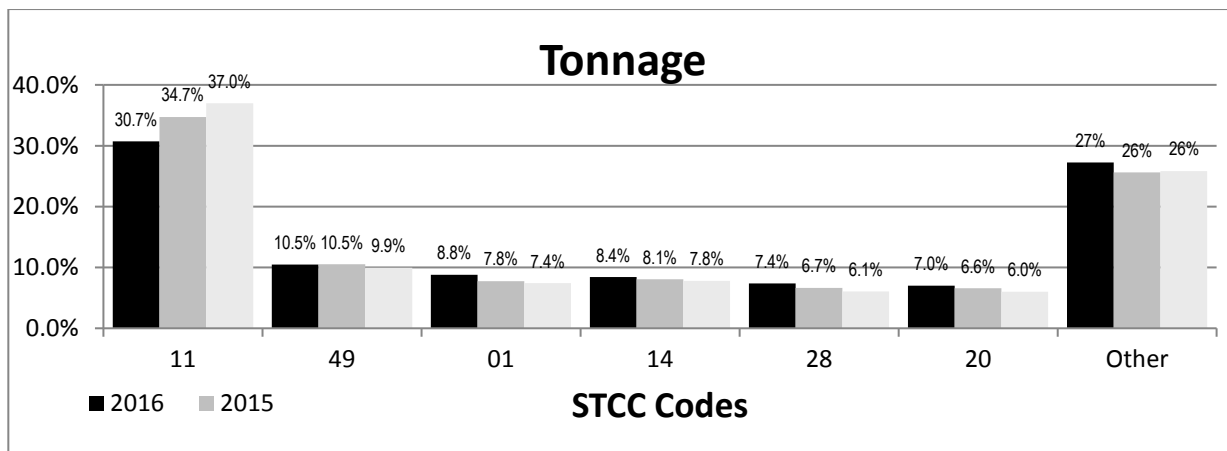
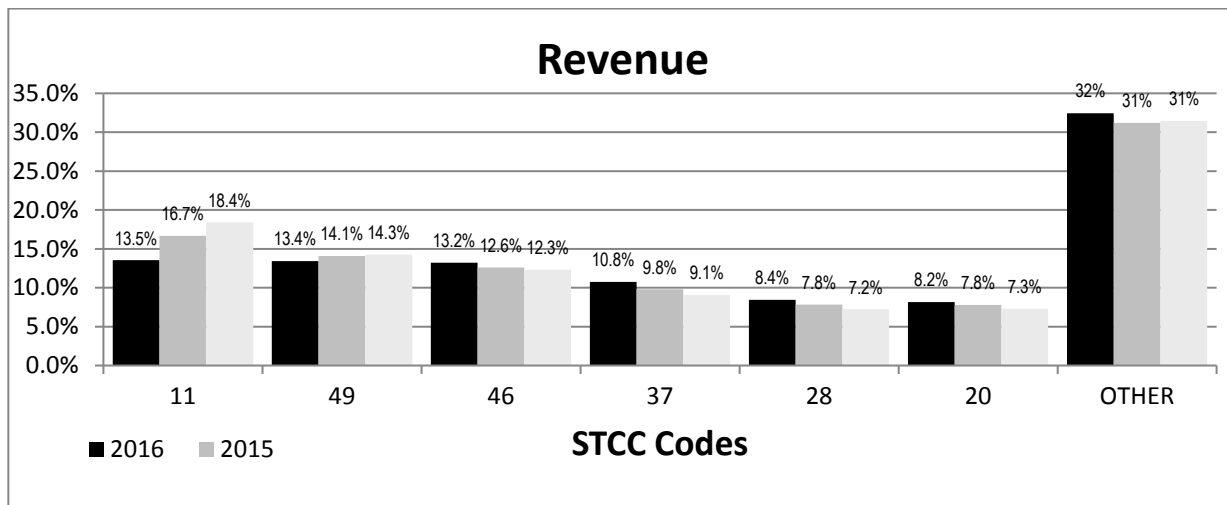
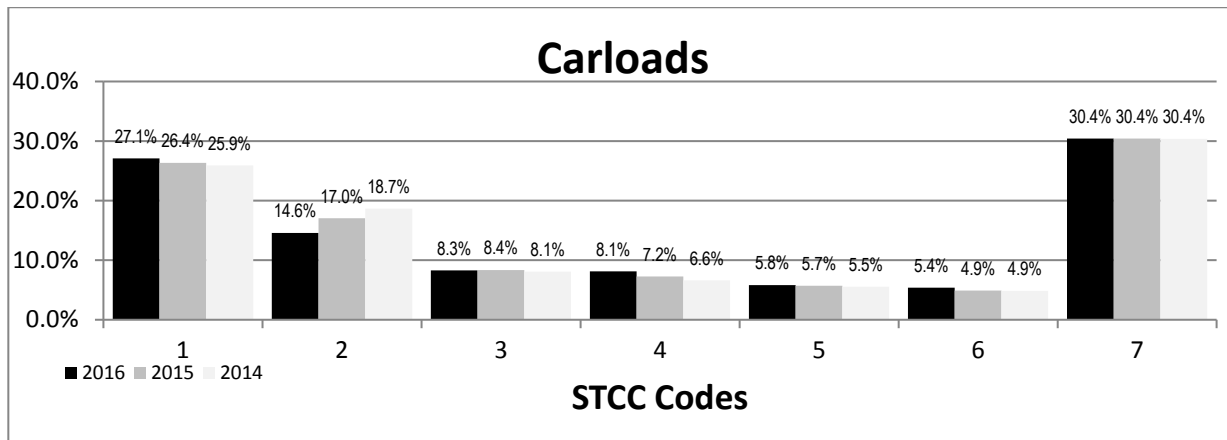
Table 1-4. Revenue 3-Year History from Waybill Samples—US, Canada & Mexico (by STCC Code)

Revenue Estimates for Total Population						
2-Digit STCC	2016		2015		2014	
	Total Revenue	Percent of Population	Total Revenue	Percent of Population	Total Revenue	Percent of Population
01	6,567,932,288	8.0%	6,281,321,425	7.1%	6,635,626,169	6.9%
08	9,779,440	0.0%	8,107,440	0.0%	9,710,320	0.0%
09	4,161,560	0.0%	6,197,520	0.0%	9,187,384	0.0%
10	435,163,253	0.5%	574,578,580	0.6%	769,375,029	0.8%
11	11,140,513,203	13.5%	14,784,621,411	16.7%	17,623,488,177	18.4%
13	2,239,266	0.0%	26,976,340	0.0%	15,666,544	0.0%
14	3,085,635,724	3.8%	3,714,277,603	4.2%	4,408,461,081	4.6%
19	27,393,272	0.0%	15,838,301	0.0%	12,311,484	0.0%
20	6,714,797,714	8.2%	6,909,078,602	7.8%	6,988,972,489	7.3%
21	231,200	0.0%	245,680	0.0%	576,680	0.0%
22	24,061,920	0.0%	26,205,560	0.0%	34,899,960	0.0%
23	584,238,440	0.7%	564,428,480	0.6%	600,521,520	0.6%
24	2,712,383,536	3.3%	2,638,442,024	3.0%	2,618,434,168	2.7%
25	190,684,120	0.2%	217,828,920	0.2%	220,829,520	0.2%
26	2,969,419,592	3.6%	3,190,350,944	3.6%	3,200,705,400	3.3%
27	53,461,960	0.1%	48,543,280	0.1%	48,198,200	0.1%
28	6,951,243,628	8.4%	6,956,666,439	7.8%	6,931,067,146	7.2%
29	1,091,413,513	1.3%	1,067,014,806	1.2%	1,123,540,414	1.2%
30	311,079,560	0.4%	290,673,200	0.3%	293,033,120	0.3%
31	9,119,680	0.0%	7,934,680	0.0%	9,043,840	0.0%
32	2,084,530,226	2.5%	2,084,891,151	2.3%	2,269,667,418	2.4%
33	2,617,938,394	3.2%	2,797,603,799	3.2%	3,366,423,492	3.5%
34	166,067,060	0.2%	189,863,852	0.2%	240,868,488	0.3%
35	309,724,242	0.4%	280,036,005	0.3%	302,082,004	0.3%
36	332,644,216	0.4%	306,474,384	0.3%	342,820,912	0.4%
37	8,857,246,016	10.8%	8,702,042,692	9.8%	8,696,831,678	9.1%
38	18,241,880	0.0%	18,339,120	0.0%	18,201,800	0.0%
39	106,102,880	0.1%	115,289,160	0.1%	110,714,600	0.1%
40	1,407,298,489	1.7%	1,410,159,380	1.6%	1,557,532,315	1.6%
41	401,486,627	0.5%	356,607,899	0.4%	368,022,342	0.4%
42	838,892,004	1.0%	1,097,326,232	1.2%	1,074,783,760	1.1%
43	1,696,840	0.0%	2,630,680	0.0%	3,111,320	0.0%
44	74,000	0.0%	175,840	0.0%	110,680	0.0%
45	3,126,280	0.0%	2,548,760	0.0%	3,123,160	0.0%
46	10,863,823,952	13.2%	11,187,063,048	12.6%	11,785,989,176	12.3%
4	249,917,328	0.3%	265,083,880	0.3%	321,610,040	0.3%
48	83,471,760	0.1%	92,872,782	0.1%	129,736,580	0.1%
49	11,051,285,407	13.4%	12,501,825,287	14.1%	13,658,625,854	14.3%
50	-	0.0%	0	0.0%	280,080	0.0%
TOTALS	82,278,520,470	100.0%	88,740,165,186	100.0%	\$95,804,184,344	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	2016		2015		2014	
	Total Tonnage	Percent of Population	Total Tonnage	Percent of Population	Total Tonnage	Percent of Population
01	167,982,757	8.8%	161,243,925	7.8%	160,170,060	7.4%
08	103,680	0.0%	81,120	0.0%	98,880	0.0%
09	54,920	0.0%	68,800	0.0%	194,760	0.0%
10	50,790,193	2.7%	58,950,422	2.8%	72,554,433	3.4%
11	587,363,792	30.7%	721,439,314	34.7%	799,454,078	37.0%
13	50,994	0.0%	505,844	0.0%	392,446	0.0%
14	160,843,656	8.4%	167,713,149	8.1%	168,487,335	7.8%
19	146,872	0.0%	52,345	0.0%	95,512	0.0%
20	133,523,130	7.0%	136,986,445	6.6%	130,187,966	6.0%
21	920	0.0%	920	0.0%	4,640	0.0%
22	266,160	0.0%	276,040	0.0%	329,640	0.0%
23	5,438,480	0.3%	5,062,160	0.2%	4,881,840	0.2%
24	45,012,916	2.4%	45,445,504	2.2%	45,106,412	2.1%
25	1,424,640	0.1%	1,784,040	0.1%	1,574,280	0.1%
26	42,642,376	2.2%	44,958,716	2.2%	44,843,944	2.1%
27	721,440	0.0%	617,800	0.0%	591,800	0.0%
28	140,918,583	7.4%	138,148,679	6.7%	131,210,643	6.1%
29	31,557,645	1.6%	27,989,360	1.3%	26,500,482	1.2%
30	2,981,680	0.2%	2,598,440	0.1%	2,515,000	0.1%
31	39,240	0.0%	32,880	0.0%	37,000	0.0%
32	49,768,986	2.6%	50,337,870	2.4%	52,843,501	2.4%
33	49,765,150	2.6%	52,866,987	2.5%	60,527,925	2.8%
34	1,217,768	0.1%	1,326,420	0.1%	1,419,780	0.1%
35	2,096,205	0.1%	1,850,573	0.1%	1,879,194	0.1%
36	2,234,120	0.1%	2,062,320	0.1%	2,075,432	0.1%
37	56,548,664	3.0%	52,980,065	2.6%	50,471,886	2.3%
38	173,120	0.0%	166,200	0.0%	163,800	0.0%
39	701,560	0.0%	770,600	0.0%	681,960	0.0%
40	42,748,070	2.2%	40,359,388	1.9%	42,736,448	2.0%
41	2,084,591	0.1%	1,991,729	0.1%	1,844,110	0.1%
42	5,153,344	0.3%	7,326,712	0.4%	10,839,400	0.5%
43	35,960	0.0%	81,760	0.0%	89,080	0.0%
44	1,600	0.0%	2,280	0.0%	3,120	0.0%
45	35,200	0.0%	27,680	0.0%	27,760	0.0%
46	125,502,664	6.6%	128,940,848	6.2%	129,604,860	6.0%
47	1,184,924	0.1%	1,283,080	0.1%	1,493,640	0.1%
48	1,050,640	0.1%	1,451,531	0.1%	2,284,223	0.1%
49	200,627,103	10.5%	218,783,534	10.5%	214,609,292	9.9%
50	-	0.0%	0	0.0%	3,280	0.0%
TOTALS	1,912,793,743	100.0%	2,076,565,480	100.0%	2,162,829,842	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 I-6. US Origin 2016 Waybill Sample—Carloads, Revenue, and Tonnage (by STCC Code)

2016							
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	18,294	1,814,042	5.5%	6,429,556,771	8.4%	165,308,526	9.0%
08	55	2,200	0.0%	9,779,440	0.0%	103,680	0.0%
09	72	2,880	0.0%	4,161,560	0.0%	54,920	0.0%
10	2,640	594,693	1.8%	428,035,173	0.6%	50,688,513	2.8%
11	19,969	4,992,424	15.2%	11,121,501,742	14.5%	586,765,776	32.0%
13	7	702	0.0%	2,239,266	0.0%	50,994	0.0%
14	12,768	1,559,173	4.7%	3,077,768,356	4.0%	160,620,916	8.8%
19	36	1,780	0.0%	27,393,272	0.0%	146,872	0.0%
20	42,701	1,916,841	5.8%	6,281,930,094	8.2%	126,064,111	6.9%
21	3	120	0.0%	231,200	0.0%	920	0.0%
22	495	19,800	0.1%	23,682,640	0.0%	252,680	0.0%
23	11,575	463,000	1.4%	583,579,920	0.8%	5,430,800	0.3%
24	9,464	397,028	1.2%	1,541,206,992	2.0%	31,337,336	1.7%
25	3,131	125,240	0.4%	182,454,160	0.2%	1,339,320	0.1%
26	20,538	821,772	2.5%	2,551,175,072	3.3%	37,668,816	2.1%
27	1,084	43,360	0.1%	53,321,080	0.1%	719,560	0.0%
28	32,420	1,452,386	4.4%	6,346,497,242	8.3%	125,943,006	6.9%
29	5,413	361,409	1.1%	1,040,135,233	1.4%	30,722,497	1.7%
30	5,548	221,920	0.7%	300,281,680	0.4%	2,880,440	0.2%
31	89	3,560	0.0%	9,043,760	0.0%	38,680	0.0%
32	10,851	513,581	1.6%	1,975,701,698	2.6%	47,506,818	2.6%
33	11,838	536,290	1.6%	2,312,777,074	3.0%	46,231,350	2.5%
34	2,278	91,200	0.3%	154,771,220	0.2%	1,150,048	0.1%
35	2,427	106,324	0.3%	297,876,362	0.4%	2,042,085	0.1%
36	4,739	189,648	0.6%	274,803,696	0.4%	2,065,000	0.1%
37	64,633	2,679,047	8.1%	8,592,287,808	11.2%	54,380,852	3.0%
38	316	12,640	0.0%	18,146,600	0.0%	172,600	0.0%
39	1,857	74,280	0.2%	103,047,840	0.1%	667,200	0.0%
40	11,889	581,992	1.8%	1,350,118,317	1.8%	41,122,650	2.2%
41	4,265	183,370	0.6%	399,636,227	0.5%	2,078,911	0.1%
42	38,183	1,527,400	4.6%	836,483,724	1.1%	5,123,984	0.3%
43	49	1,960	0.0%	1,696,840	0.0%	35,960	0.0%
44	2	80	0.0%	74,000	0.0%	1,600	0.0%
45	37	1,480	0.0%	3,126,280	0.0%	35,200	0.0%
46	221,073	8,843,116	26.9%	10,364,869,072	13.5%	119,382,184	6.5%
47	3,145	125,892	0.4%	249,917,328	0.3%	1,184,924	0.1%
48	323	13,000	0.0%	68,085,720	0.1%	853,000	0.0%
49	51,786	2,602,614	7.9%	9,837,933,519	12.8%	181,098,986	9.9%
50	0	0	0.0%	0	0.0%	0	0.0%
TOTALS	615,993	32,878,244	100.0%	\$ 76,855,327,978	100.0	1,831,271,71	100.0%

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

Carload Estimates for Total Population						
2-Digit STCC	2016		2015		2014	
	Total Carloads	Percent of Population	Total Carloads	Percent of Population	Total Carloads	Percent of Population
01	1,814,042	5.5%	1,723,512	5.0%	1,730,500	4.9%
08	2,200	0.0%	2,440	0.0%	2,560	0.0%
09	2,880	0.0%	3,160	0.0%	5,020	0.0%
10	594,693	1.8%	686,128	2.0%	867,140	2.5%
11	4,992,424	15.2%	6,135,795	17.7%	6,839,418	19.4%
13	702	0.0%	5,341	0.0%	2,949	0.0%
14	1,559,173	4.7%	1,656,381	4.8%	1,686,767	4.8%
19	1,780	0.0%	1,915	0.0%	1,683	0.0%
20	1,916,841	5.8%	1,978,796	5.7%	1,945,559	5.5%
21	120	0.0%	120	0.0%	400	0.0%
22	19,800	0.1%	20,840	0.1%	23,840	0.1%
23	463,000	1.4%	433,320	1.3%	411,080	1.2%
24	397,028	1.2%	420,940	1.2%	435,296	1.2%
25	125,240	0.4%	145,480	0.4%	136,200	0.4%
26	821,772	2.5%	857,912	2.5%	836,916	2.4%
27	43,360	0.1%	38,520	0.1%	35,960	0.1%
28	1,452,386	4.4%	1,426,046	4.1%	1,370,215	3.9%
29	361,409	1.1%	323,947	0.9%	318,305	0.9%
30	221,920	0.7%	196,480	0.6%	184,120	0.5%
31	3,560	0.0%	3,240	0.0%	3,200	0.0%
32	513,581	1.6%	520,857	1.5%	540,228	1.5%
33	536,290	1.6%	569,359	1.6%	659,916	1.9%
34	91,200	0.3%	100,076	0.3%	104,956	0.3%
35	106,324	0.3%	94,607	0.3%	94,039	0.3%
36	189,648	0.6%	161,572	0.5%	152,268	0.4%
37	2,679,047	8.1%	2,505,985	7.2%	2,322,695	6.6%
38	12,640	0.0%	12,600	0.0%	12,320	0.0%
39	74,280	0.2%	76,080	0.2%	68,920	0.2%
40	581,992	1.8%	560,855	1.6%	604,415	1.7%
41	183,370	0.6%	160,894	0.5%	155,947	0.4%
42	1,527,400	4.6%	1,814,004	5.2%	1,715,640	4.9%
43	1,960	0.0%	3,880	0.0%	4,160	0.0%
44	80	0.0%	160	0.0%	160	0.0%
45	1,480	0.0%	1,200	0.0%	1,360	0.0%
46	8,843,116	26.9%	9,034,656	26.1%	9,093,948	25.8%
47	125,892	0.4%	132,960	0.4%	146,080	0.4%
48	13,000	0.0%	16,115	0.0%	23,890	0.1%
49	2,602,614	7.9%	2,760,862	8.0%	2,702,025	7.7%
50	0	0.0%	0	0.0%	200	0.0%
TOTALS	32,878,244	100%	34,587,035	100.0%	35,240,295	100.0%

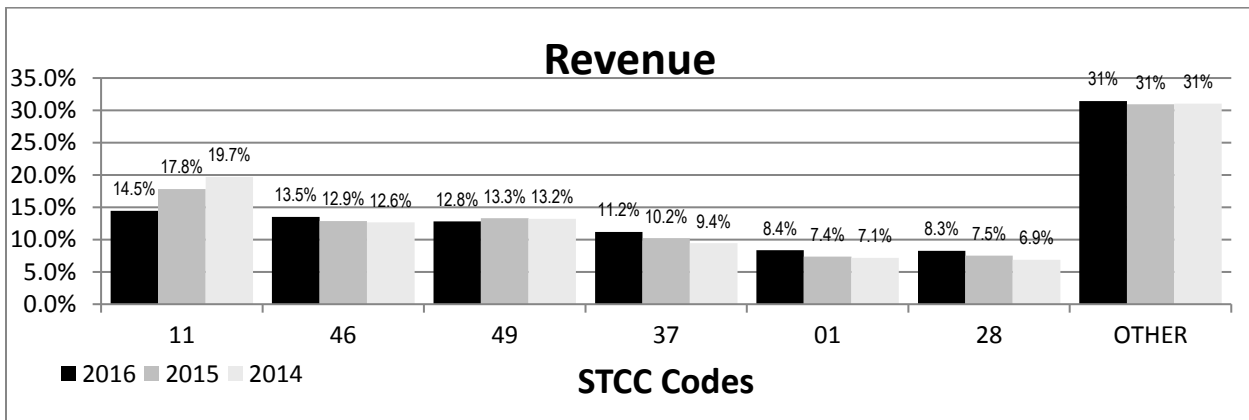
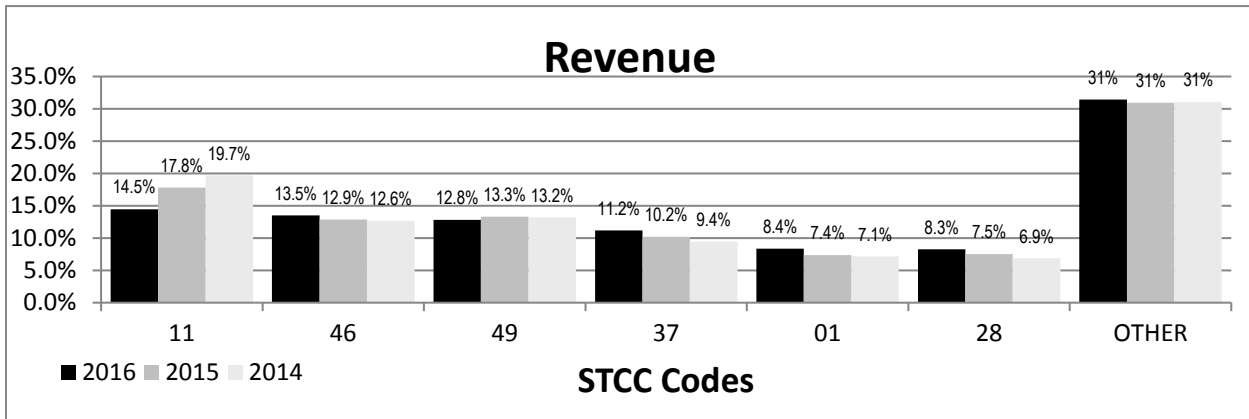
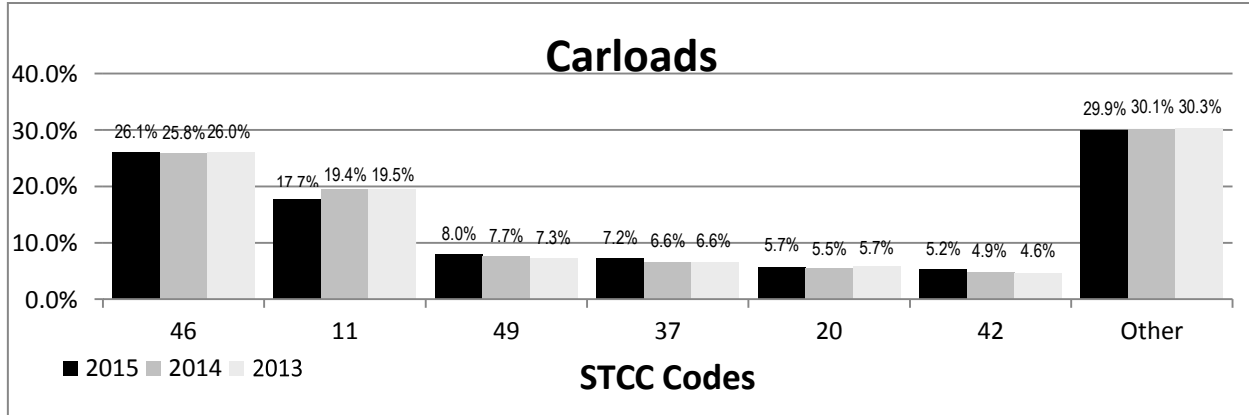
Table 1-8. US Origin Revenue 3-Year History from Waybill Samples (by STCC Code)

Revenue Estimates for Total Population						
2-Digit STCC	2016		2015		2014	
	Total Revenue	Percent of Population	Total Revenue	Percent of Population	Total Revenue	Percent of Population
01	6,429,556,771	8.4%	6,092,686,087	7.4%	6,391,880,204	7.1%
08	9,779,440	0.0%	8,107,440	0.0%	9,710,320	0.0%
09	4,161,560	0.0%	6,197,520	0.0%	9,187,384	0.0%
10	428,035,173	0.6%	568,871,300	0.7%	765,393,629	0.9%
11	11,121,501,742	14.5%	14,766,687,025	17.8%	17,603,549,575	19.7%
13	2,239,266	0.0%	26,522,380	0.0%	12,411,104	0.0%
14	3,077,768,356	4.0%	3,705,868,603	4.5%	4,399,965,001	4.9%
19	27,393,272	0.0%	15,838,301	0.0%	12,311,484	0.0%
20	6,281,930,094	8.2%	6,499,740,540	7.8%	6,563,404,855	7.3%
21	231,200	0.0%	245,680	0.0%	521,960	0.0%
22	23,682,640	0.0%	25,255,600	0.0%	33,702,680	0.0%
23	583,579,920	0.8%	563,294,760	0.7%	598,166,400	0.7%
24	1,541,206,992	2.0%	1,597,683,164	1.9%	1,660,985,896	1.9%
25	182,454,160	0.2%	209,049,440	0.3%	212,815,480	0.2%
26	2,551,175,072	3.3%	2,704,887,064	3.3%	2,683,564,560	3.0%
27	53,321,080	0.1%	48,423,280	0.1%	48,110,240	0.1%
28	6,346,497,242	8.3%	6,214,860,690	7.5%	6,138,390,104	6.9%
29	1,040,135,233	1.4%	1,007,260,214	1.2%	1,065,720,454	1.2%
30	300,281,680	0.4%	275,013,200	0.3%	277,452,480	0.3%
31	9,043,760	0.0%	7,863,240	0.0%	8,979,520	0.0%
32	1,975,701,698	2.6%	1,969,087,431	2.4%	2,166,105,858	2.4%
33	2,312,777,074	3.0%	2,438,555,399	2.9%	3,005,707,732	3.4%
34	154,771,220	0.2%	170,246,892	0.2%	229,239,648	0.3%
35	297,876,362	0.4%	257,966,365	0.3%	276,166,364	0.3%
36	274,803,696	0.4%	242,915,624	0.3%	251,625,472	0.3%
37	8,592,287,808	11.2%	8,436,449,308	10.2%	8,437,368,114	9.4%
38	18,146,600	0.0%	18,168,680	0.0%	18,122,080	0.0%
39	103,047,840	0.1%	110,706,680	0.1%	108,441,480	0.1%
40	1,350,118,317	1.8%	1,348,939,248	1.6%	1,464,309,867	1.6%
41	399,636,227	0.5%	340,541,379	0.4%	347,168,782	0.4%
42	836,483,724	1.1%	1,094,970,152	1.3%	1,070,802,560	1.2%
43	1,696,840	0.0%	2,630,680	0.0%	3,111,320	0.0%
44	74,000	0.0%	175,840	0.0%	110,680	0.0%
45	3,126,280	0.0%	2,548,760	0.0%	3,123,160	0.0%
46	10,364,869,072	13.5%	10,671,173,208	12.9%	11,308,225,536	12.6%
47	249,917,328	0.3%	265,083,880	0.3%	321,610,040	0.4%
48	68,085,720	0.1%	81,308,102	0.1%	107,890,660	0.1%
49	9,837,933,519	12.8%	11,024,629,964	13.3%	11,801,220,093	13.2%
50	0	0.0%	0	0.0%	280,080	0.0%
TOTALS	\$ 76,855,327,978	100.0%	\$ 82,820,453,120	100.0%	\$ 89,416,852,856	100.0%

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

Tonnage Estimates for Total Population						
2-Digit STCC	2016		2015		2014	
	Total Tonnage	Percent of Population	Total Tonnage	Percent of Population	Total Tonnage	Percent of Population
01	165,308,526	9.0%	157,756,940	7.9%	155,543,469	7.5%
08	103,680	0.0%	81,120	0.0%	98,880	0.0%
09	54,920	0.0%	68,800	0.0%	194,760	0.0%
10	50,688,513	2.8%	58,870,582	3.0%	72,481,593	3.5%
11	586,765,776	32.0%	720,956,890	36.2%	798,944,690	38.4%
13	50,994	0.0%	502,164	0.0%	271,886	0.0%
14	160,620,916	8.8%	167,550,349	8.4%	168,353,895	8.1%
19	146,872	0.0%	52,345	0.0%	95,512	0.0%
20	126,064,111	6.9%	130,310,769	6.5%	123,329,941	5.9%
21	920	0.0%	920	0.0%	4,400	0.0%
22	252,680	0.0%	263,240	0.0%	317,960	0.0%
23	5,430,800	0.3%	5,049,080	0.3%	4,868,800	0.2%
24	31,337,336	1.7%	33,363,592	1.7%	34,307,676	1.7%
25	1,339,320	0.1%	1,694,160	0.1%	1,481,840	0.1%
26	37,668,816	2.1%	39,285,416	2.0%	38,901,264	1.9%
27	719,560	0.0%	616,040	0.0%	591,160	0.0%
28	125,943,006	6.9%	123,146,485	6.2%	116,722,872	5.6%
29	30,722,497	1.7%	27,113,504	1.4%	25,758,602	1.2%
30	2,880,440	0.2%	2,481,920	0.1%	2,393,840	0.1%
31	38,680	0.0%	32,440	0.0%	35,600	0.0%
32	47,506,818	2.6%	47,877,806	2.4%	50,747,261	2.4%
33	46,231,350	2.5%	48,828,147	2.4%	56,309,325	2.7%
34	1,150,048	0.1%	1,248,180	0.1%	1,361,100	0.1%
35	2,042,085	0.1%	1,755,453	0.1%	1,780,034	0.1%
36	2,065,000	0.1%	1,810,040	0.1%	1,778,312	0.1%
37	54,380,852	3.0%	50,908,585	2.6%	48,437,346	2.3%
38	172,600	0.0%	165,800	0.0%	163,120	0.0%
39	667,200	0.0%	731,640	0.0%	668,760	0.0%
40	41,122,650	2.2%	38,907,132	2.0%	40,689,068	2.0%
41	2,078,911	0.1%	1,943,649	0.1%	1,784,310	0.1%
42	5,123,984	0.3%	7,295,392	0.4%	10,784,760	0.5%
43	35,960	0.0%	81,760	0.0%	89,080	0.0%
44	1,600	0.0%	2,280	0.0%	3,120	0.0%
45	35,200	0.0%	27,680	0.0%	27,760	0.0%
46	119,382,184	6.5%	122,573,528	6.1%	124,145,260	6.0%
47	1,184,924	0.1%	1,283,080	0.1%	1,493,640	0.1%
48	853,000	0.0%	1,281,811	0.1%	2,081,863	0.1%
49	181,098,986	9.9%	197,252,566	9.9%	191,734,725	9.2%
50	0	0.0%	0	0.0%	3,280	0.0%
TOTALS	1,831,271,715	100%	1,993,171,285	100.0%	2,078,780,764	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 2016 Waybill Sample (Carloads, Revenue, and Tonnage by STCC Code)

2016							
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	454	29,860	2.2%	138,174,877	2.7%	2,672,831	3.3%
08	-	-	0.0%	-	0.0%	-	0.0%
09	-	-	0.0%	-	0.0%	-	0.0%
10	27	1,080	0.1%	6,791,440	0.1%	100,720	0.1%
11	24	5,925	0.4%	19,011,461	0.4%	598,016	0.7%
13	-	-	0.0%	-	0.0%	-	0.0%
14	107	4,276	0.3%	4,580,528	0.1%	100,180	0.1%
19	-	-	0.0%	-	0.0%	-	0.0%
20	1,435	78,218	5.6%	396,439,980	7.7%	7,209,859	9.0%
21	-	-	0.0%	-	0.0%	-	0.0%
22	15	600	0.0%	342,560	0.0%	12,640	0.0%
23	14	560	0.0%	581,760	0.0%	6,320	0.0%
24	3,855	154,392	11.1%	1,170,934,104	22.6%	13,674,780	17.1%
25	98	3,920	0.3%	2,890,600	0.1%	64,880	0.1%
26	1,596	63,840	4.6%	417,010,400	8.1%	4,967,360	6.2%
27	3	120	0.0%	140,880	0.0%	1,880	0.0%
28	2,552	151,203	10.9%	595,376,866	11.5%	14,879,457	18.6%
29	256	10,296	0.7%	51,164,360	1.0%	832,468	1.0%
30	146	5,840	0.4%	9,290,720	0.2%	88,440	0.1%
31	-	-	0.0%	-	0.0%	-	0.0%
32	546	21,892	1.6%	98,611,408	1.9%	2,148,768	2.7%
33	951	38,040	2.7%	286,128,720	5.5%	3,382,640	4.2%
34	56	2,240	0.2%	3,768,280	0.1%	29,760	0.0%
35	32	1,280	0.1%	2,085,000	0.0%	21,320	0.0%
36	11	440	0.0%	3,997,520	0.1%	13,800	0.0%
37	2,074	83,248	6.0%	191,326,304	3.7%	1,678,804	2.1%
38	2	80	0.0%	95,280	0.0%	520	0.0%
39	49	1,960	0.1%	1,853,320	0.0%	18,640	0.0%
40	594	24,008	1.7%	53,072,252	1.0%	1,544,020	1.9%
41	10	400	0.0%	436,440	0.0%	1,800	0.0%
42	136	5,440	0.4%	1,963,120	0.0%	26,280	0.0%
44	-	-	0.0%	-	0.0%	-	0.0%
45	-	-	0.0%	-	0.0%	-	0.0%
46	11,532	461,280	33.3%	498,767,720	9.6%	6,120,080	7.7%
47	-	-	0.0%	-	0.0%	-	0.0%
48	79	3,160	0.2%	15,386,040	0.3%	197,640	0.2%
49	5,458	232,454	16.8%	1,206,355,608	23.3%	19,398,957	24.3%
50	-	-	0.0%	-	0.0%	-	0.0%
TOTALS	32,112	1,386,052	100%	5,176,577,548	100.0%	79,792,860	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					
	2016		2015		2014	
	Total Carloads	Percent of Population	Total Carloads	Percent of Population	Total Carloads	Percent of Population
01	29,860	2.2%	39,232	2.8%	49,487	3.7%
08	-	0.0%	-	0.0%	-	0.0%
09	-	0.0%	-	0.0%	-	0.0%
10	1,080	0.1%	880	0.1%	720	0.1%
11	5,925	0.4%	4,790	0.3%	5,046	0.4%
13	-	0.0%	40	0.0%	1,240	0.1%
14	4,276	0.3%	2,040	0.1%	3,000	0.2%
19	-	0.0%	-	0.0%	-	0.0%
20	78,218	5.6%	70,951	5.0%	73,810	5.4%
21	-	0.0%	-	0.0%	40	0.0%
22	600	0.0%	440	0.0%	400	0.0%
23	560	0.0%	360	0.0%	840	0.1%
24	154,392	11.1%	136,992	9.7%	122,324	9.0%
25	3,920	0.3%	4,240	0.3%	4,360	0.3%
26	63,840	4.6%	74,288	5.3%	77,120	5.7%
27	120	0.0%	120	0.0%	40	0.0%
28	151,203	10.9%	151,393	10.8%	145,783	10.8%
29	10,296	0.7%	10,640	0.8%	9,320	0.7%
30	5,840	0.4%	5,840	0.4%	6,200	0.5%
31	-	0.0%	-	0.0%	80	0.0%
32	21,892	1.6%	22,800	1.6%	19,440	1.4%
33	38,040	2.7%	44,360	3.2%	44,240	3.3%
34	2,240	0.2%	1,320	0.1%	1,200	0.1%
35	1,280	0.1%	1,120	0.1%	1,200	0.1%
36	440	0.0%	800	0.1%	920	0.1%
37	83,248	6.0%	76,884	5.5%	67,988	5.0%
38	80	0.0%	40	0.0%	40	0.0%
39	1,960	0.1%	2,160	0.2%	1,160	0.1%
40	24,008	1.7%	18,540	1.3%	25,000	1.8%
41	400	0.0%	160	0.0%	120	0.0%
42	5,440	0.4%	4,200	0.3%	8,240	0.6%
44	-	0.0%	-	0.0%	-	0.0%
45	-	0.0%	-	0.0%	-	0.0%
46	461,280	33.3%	476,920	33.9%	416,720	30.7%
47	-	0.0%	-	0.0%	-	0.0%
48	3,160	0.2%	2,240	0.2%	3,680	0.3%
49	232,454	16.8%	252,322	17.9%	265,493	19.6%
50	-	0.0%	-	0.0%	-	0.0%
TOTALS	1,386,052	100.0%	1,406,112	100.0%	1,355,251	100.0%

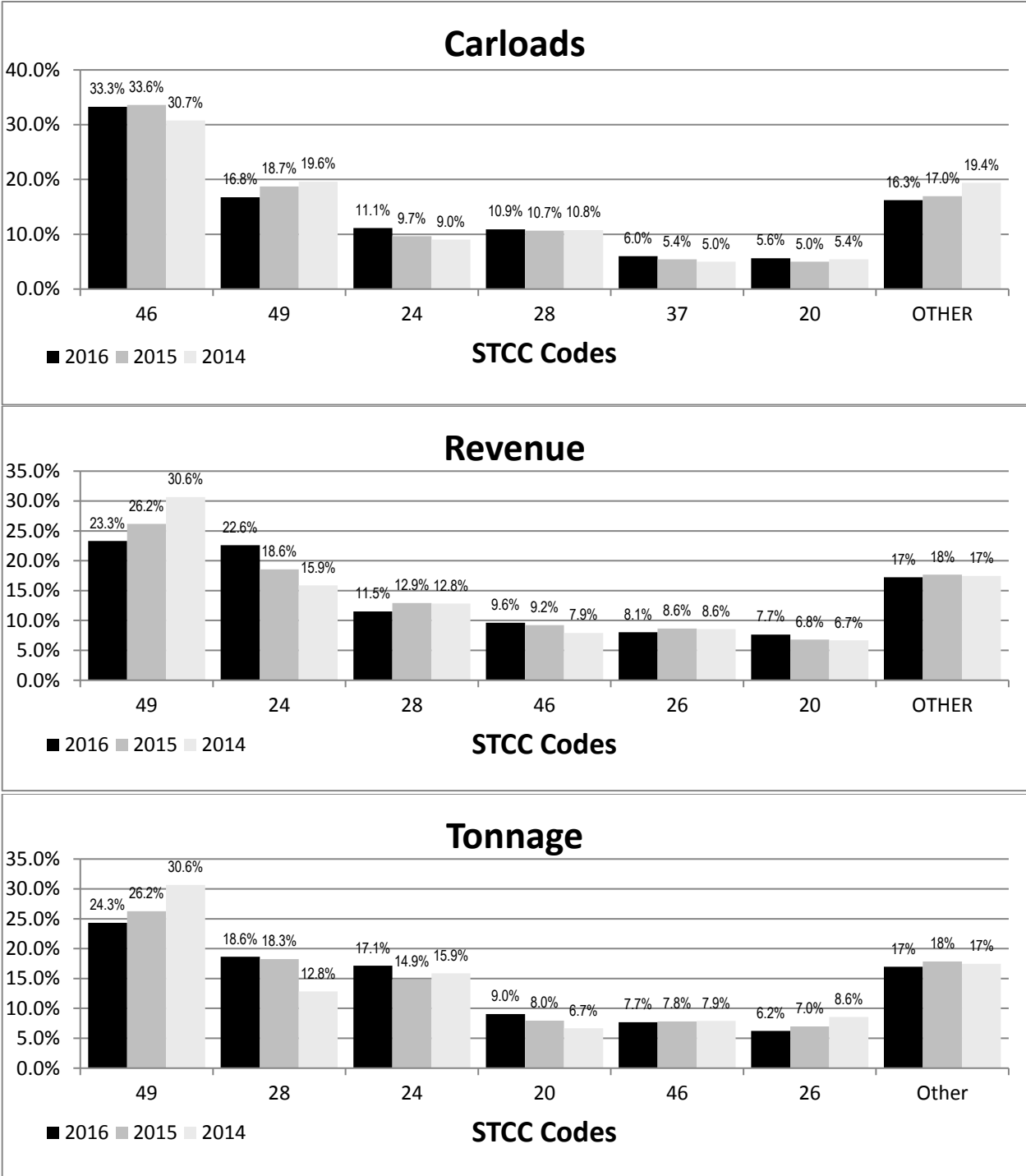
Table 1-12. Canadian Origin Revenue 3-Year History from Waybill Samples (by STCC Code)

Revenue Estimates for Total Population						
2-Digit STCC	2016		2015		2014	
	Total Revenue	Percent of Population	Total Revenue	Percent of Population	Total Revenue	Percent of Population
01	138,174,877	2.7%	188,635,338	3.4%	243,299,725	4.0%
08	-	0.0%	-	0.0%	-	0.0%
09	-	0.0%	-	0.0%	-	0.0%
10	6,791,440	0.1%	5,707,280	0.1%	3,912,240	0.1%
11	19,011,461	0.4%	17,934,386	0.3%	19,938,602	0.3%
13	-	0.0%	453,960	0.0%	3,255,440	0.1%
14	4,580,528	0.1%	2,965,760	0.1%	5,362,560	0.1%
19	-	0.0%	-	0.0%	-	0.0%
20	396,439,980	7.7%	381,245,142	6.8%	402,019,234	6.7%
21	-	0.0%	-	0.0%	54,720	0.0%
22	342,560	0.0%	726,360	0.0%	1,164,840	0.0%
23	581,760	0.0%	525,080	0.0%	1,421,080	0.0%
24	1,170,934,104	22.6%	1,040,561,900	18.6%	957,303,112	15.9%
25	2,890,600	0.1%	2,748,040	0.0%	3,375,120	0.1%
26	417,010,400	8.1%	484,621,880	8.6%	515,807,760	8.6%
27	140,880	0.0%	120,000	0.0%	87,960	0.0%
28	595,376,866	11.5%	723,018,229	12.9%	773,023,842	12.8%
29	51,164,360	1.0%	59,754,592	1.1%	57,819,960	1.0%
30	9,290,720	0.2%	10,032,920	0.2%	11,052,320	0.2%
31	-	0.0%	-	0.0%	29,280	0.0%
32	98,611,408	1.9%	102,035,160	1.8%	90,931,560	1.5%
33	286,128,720	5.5%	344,948,200	6.2%	329,013,760	5.5%
34	3,768,280	0.1%	4,887,480	0.1%	2,717,000	0.0%
35	2,085,000	0.0%	3,594,400	0.1%	2,090,440	0.0%
36	3,997,520	0.1%	903,840	0.0%	12,349,720	0.2%
37	191,326,304	3.7%	176,150,192	3.1%	159,537,848	2.6%
38	95,280	0.0%	170,440	0.0%	79,720	0.0%
39	1,853,320	0.0%	1,958,360	0.0%	1,365,880	0.0%
40	53,072,252	1.0%	52,149,572	0.9%	78,274,848	1.3%
41	436,440	0.0%	119,280	0.0%	177,080	0.0%
42	1,963,120	0.0%	2,223,160	0.0%	3,345,840	0.1%
44	-	0.0%	-	0.0%	-	0.0%
45	-	0.0%	-	0.0%	-	0.0%
46	498,767,720	9.6%	515,889,840	9.2%	477,730,640	7.9%
47	-	0.0%	-	0.0%	-	0.0%
48	15,386,040	0.3%	11,564,680	0.2%	21,845,920	0.4%
49	1,206,355,608	23.3%	1,467,179,883	26.2%	1,846,326,481	30.6%
50	-	0.0%	-	0.0%	-	0.0%
TOTALS	5,176,577,548	100.0%	5,602,825,354	100.0%	6,024,714,532	100.0%

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

2-Digit STCC	Tonnage Estimates for Total Population					
	2016		2015		2014	
	Total Tonnage	Percent of Population	Total Tonnage	Percent of Population	Total Tonnage	Percent of Population
01	2,672,831	3.3%	3,486,985	4.3%	4,625,231	5.7%
08	-	0.0%	-	0.0%	-	0.0%
09	-	0.0%	-	0.0%	-	0.0%
10	100,720	0.1%	79,840	0.1%	72,440	0.1%
11	598,016	0.7%	482,424	0.6%	4,240	0.0%
13	-	0.0%	3,680	0.0%	120,560	0.1%
14	100,180	0.1%	54,880	0.1%	88,160	0.1%
19	-	0.0%	-	0.0%	-	0.0%
20	7,209,859	9.0%	6,462,316	8.0%	6,648,617	8.2%
21	-	0.0%	-	0.0%	240	0.0%
22	12,640	0.0%	12,000	0.0%	10,960	0.0%
23	6,320	0.0%	5,920	0.0%	10,000	0.0%
24	13,674,780	17.1%	12,081,112	14.9%	10,797,896	13.3%
25	64,880	0.1%	65,600	0.1%	75,520	0.1%
26	4,967,360	6.2%	5,667,980	7.0%	5,935,520	7.3%
27	1,880	0.0%	1,760	0.0%	640	0.0%
28	14,879,457	18.6%	14,845,514	18.3%	14,206,417	17.5%
29	832,468	1.0%	875,856	1.1%	741,880	0.9%
30	88,440	0.1%	89,080	0.1%	95,600	0.1%
31	-	0.0%	-	0.0%	1,120	0.0%
32	2,148,768	2.7%	2,282,824	2.8%	1,940,320	2.4%
33	3,382,640	4.2%	3,943,320	4.9%	4,016,000	4.9%
34	29,760	0.0%	23,680	0.0%	15,440	0.0%
35	21,320	0.0%	23,840	0.0%	16,840	0.0%
36	13,800	0.0%	13,880	0.0%	22,040	0.0%
37	1,678,804	2.1%	1,533,000	1.9%	1,356,136	1.7%
38	520	0.0%	400	0.0%	680	0.0%
39	18,640	0.0%	20,440	0.0%	8,880	0.0%
40	1,544,020	1.9%	1,302,896	1.6%	1,781,620	2.2%
41	1,800	0.0%	640	0.0%	1,760	0.0%
42	26,280	0.0%	30,840	0.0%	102,640	0.1%
44	-	0.0%	-	0.0%	-	0.0%
45	-	0.0%	-	0.0%	-	0.0%
46	6,120,080	7.7%	6,367,320	7.8%	5,459,440	6.7%
47	-	0.0%	-	0.0%	-	0.0%
48	197,640	0.2%	169,720	0.2%	202,360	0.2%
49	19,398,957	24.3%	21,329,648	26.2%	22,779,967	28.1%
50	-	0.0%	-	0.0%	-	0.0%
TOTALS	79,792,860	100.0%	81,257,395	100.0%	81,713,194	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 2016 Waybill Sample (Carloads, Revenue, and Tonnage by STCC Code)

2016							
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	-	-	0.0%	-	0.0%	-	0.0%
10	-	-	0.0%	-	0.0%	-	0.0%
19	-	-	0.0%	-	0.0%	-	0.0%
14	29	1,160	1.7%	3,286,840	1.3%	122,560	6.8%
20	194	7,760	11.4%	36,427,640	14.6%	249,160	13.9%
22	1	40	0.1%	36,720	0.0%	840	0.0%
23	3	120	0.2%	76,760	0.0%	1,360	0.1%
24	2	80	0.1%	242,440	0.1%	800	0.0%
25	54	2,160	3.2%	5,339,360	2.1%	20,440	1.1%
26	3	120	0.2%	1,234,120	0.5%	6,200	0.3%
27	-	-	0.0%	-	0.0%	-	0.0%
28	33	1,320	1.9%	9,369,520	3.8%	96,120	5.3%
29	4	160	0.2%	113,920	0.0%	2,680	0.1%
30	22	880	1.3%	1,507,160	0.6%	12,800	0.7%
32	74	2,960	4.4%	10,217,120	4.1%	113,400	6.3%
33	46	1,840	2.7%	19,032,600	7.6%	151,160	8.4%
34	58	2,320	3.4%	7,527,560	3.0%	37,960	2.1%
35	84	3,360	5.0%	9,762,880	3.9%	32,800	1.8%
36	346	13,840	20.4%	53,843,000	21.6%	155,320	8.6%
37	595	24,180	35.7%	73,631,904	29.6%	489,008	27.2%
39	33	1,320	1.9%	1,201,720	0.5%	15,720	0.9%
40	27	1,080	1.6%	4,107,920	1.6%	81,400	4.5%
41	11	440	0.6%	1,413,960	0.6%	3,880	0.2%
42	1	40	0.1%	445,160	0.2%	3,080	0.2%
43	-	-	0.0%	-	0.0%	-	0.0%
46	1	40	0.1%	187,160	0.1%	400	0.0%
49	65	2,600	3.8%	10,015,440	4.0%	201,320	11.2%
TOTALS	1,686	67,820	100%	249,020,904	100%	1,798,408	100%

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

Carload Estimates for Total Population						
2-Digit STCC	2016		2015		2014	
	Total Carloads	Percent of Population	Total Carloads	Percent of Population	Total Carloads	Percent of Population
01	-	0.0%	-	0.0%	80	0.1%
10	-	0.0%	-	0.0%	40	0.0%
19	-	0.0%	-	0.0%	-	0.0%
14	1,160	1.7%	1,120	1.2%	600	0.6%
20	7,760	11.4%	6,800	7.5%	6,200	6.2%
22	40	0.1%	80	0.1%	40	0.0%
23	120	0.2%	440	0.5%	280	0.3%
24	80	0.1%	80	0.1%	80	0.1%
25	2,160	3.2%	2,520	2.8%	1,560	1.6%
26	120	0.2%	240	0.3%	280	0.3%
27	-	0.0%	-	0.0%	-	0.0%
28	1,320	1.9%	2,160	2.4%	3,080	3.1%
29	160	0.2%	-	0.0%	-	0.0%
30	880	1.3%	2,480	2.7%	2,160	2.1%
32	2,960	4.4%	4,640	5.1%	5,000	5.0%
33	1,840	2.7%	1,440	1.6%	2,880	2.9%
34	2,320	3.4%	4,000	4.4%	3,720	3.7%
35	3,360	5.0%	6,640	7.3%	7,880	7.8%
36	13,840	20.4%	16,480	18.1%	19,720	19.6%
37	24,180	35.7%	28,960	31.8%	33,964	33.8%
39	1,320	1.9%	1,920	2.1%	600	0.6%
40	1,080	1.6%	2,240	2.5%	4,080	4.1%
41	440	0.6%	6,240	6.8%	7,760	7.7%
42	40	0.1%	120	0.1%	480	0.5%
43	-	0.0%	-	0.0%	-	0.0%
46	40	0.1%	-	0.0%	40	0.0%
49	2,600	3.8%	2,600	2.9%	-	0.0%
TOTALS	67,820	100%	91,200	100%	100,524	100%

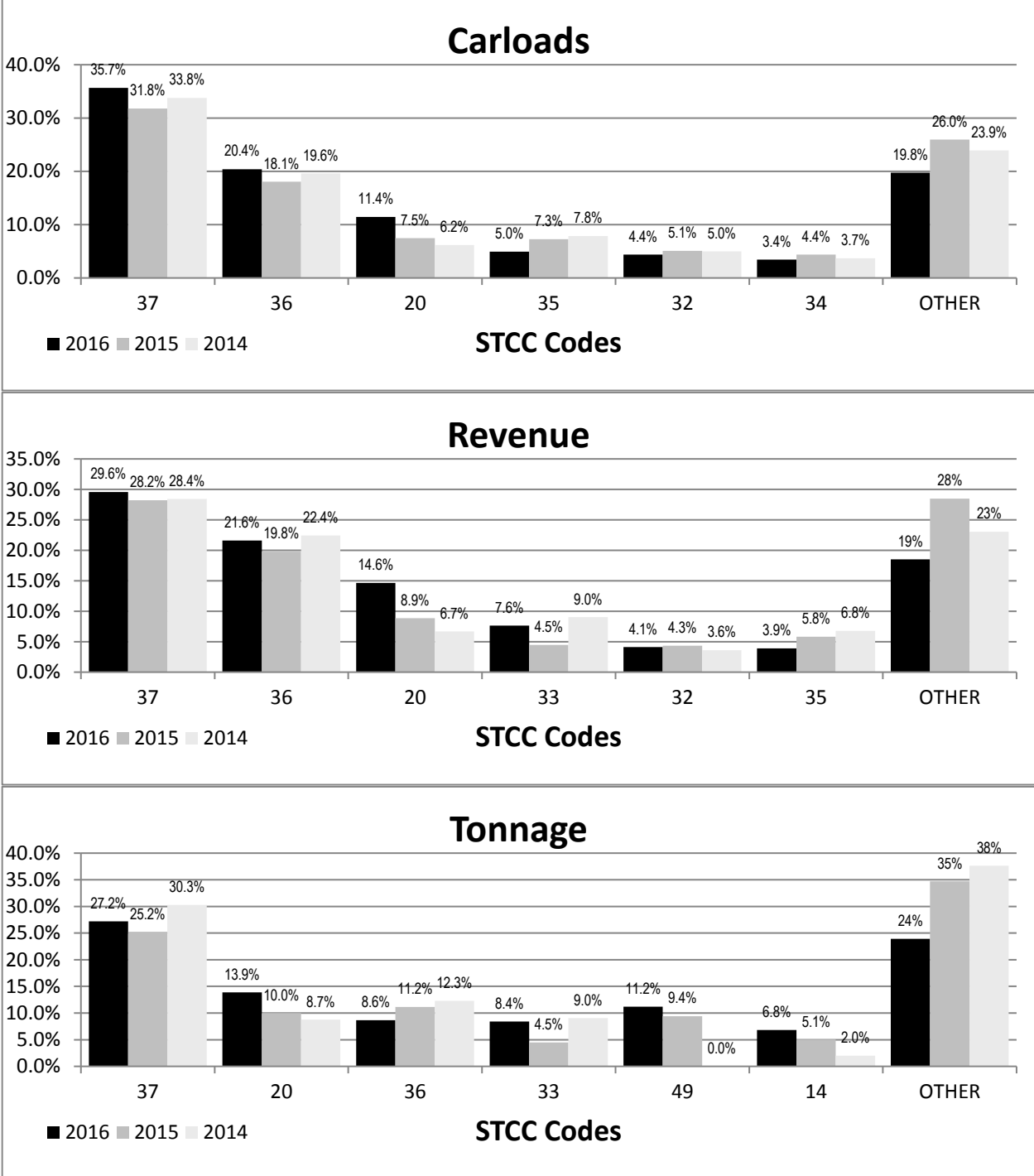
Table 1-16. Mexican Origin Revenue 3-Year History from Waybill Samples (by STCC Code)

Revenue Estimates for Total Population						
2-Digit STCC	2016		2015		2014	
	Total Revenue	Percent of Population	Total Revenue	Percent of Population	Total Revenue	Percent of Population
01	-	0.0%	-	0.0%	446,240	0.1%
10	-	0.0%	-	0.0%	69,160	0.0%
19	-	0.0%	-	0.0%	-	0.0%
14	3,286,840	1.3%	5,443,240	1.7%	3,133,520	0.9%
20	36,427,640	14.6%	28,092,920	8.9%	23,548,400	6.7%
22	36,720	0.0%	223,600	0.1%	32,440	0.0%
23	76,760	0.0%	608,640	0.2%	934,040	0.3%
24	242,440	0.1%	196,960	0.1%	145,160	0.0%
25	5,339,360	2.1%	6,031,440	1.9%	4,638,920	1.3%
26	1,234,120	0.5%	842,000	0.3%	1,333,080	0.4%
27	-	0.0%	-	0.0%	-	0.0%
28	9,369,520	3.8%	18,787,520	5.9%	19,653,200	5.6%
29	113,920	0.0%	-	0.0%	-	0.0%
30	1,507,160	0.6%	5,627,080	1.8%	4,528,320	1.3%
32	10,217,120	4.1%	13,768,560	4.3%	12,630,000	3.6%
33	19,032,600	7.6%	14,100,200	4.5%	31,702,000	9.0%
34	7,527,560	3.0%	14,729,480	4.6%	8,911,840	2.5%
35	9,762,880	3.9%	18,475,240	5.8%	23,825,200	6.8%
36	53,843,000	21.6%	62,654,920	19.8%	78,845,720	22.4%
37	73,631,904	29.6%	89,443,192	28.2%	99,925,716	28.4%
39	1,201,720	0.5%	2,624,120	0.8%	907,240	0.3%
40	4,107,920	1.6%	9,070,560	2.9%	14,947,600	4.3%
41	1,413,960	0.6%	15,947,240	5.0%	20,676,480	5.9%
42	445,160	0.2%	132,920	0.0%	635,360	0.2%
43	-	0.0%	-	0.0%	-	0.0%
46	187,160	0.1%	-	0.0%	33,000	0.0%
49	10,015,440	4.0%	10,015,440	3.2%	-	0.0%
TOTALS	249,020,904	100%	316,815,272	100%	351,502,636	100%

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

Tonnage Estimates for Total Population						
2-Digit STCC	2016		2015		2014	
	Total Tonnage	Percent of Population	Total Tonnage	Percent of Population	Total Tonnage	Percent of Population
01	-	0.0%	-	0.0%	1,360	0.1%
10	-	0.0%	-	0.0%	400	0.0%
19	-	0.0%	-	0.0%	-	0.0%
14	122,560	6.8%	107,920	5.1%	45,280	2.0%
20	249,160	13.9%	213,360	10.0%	196,040	8.7%
22	840	0.0%	800	0.0%	720	0.0%
23	1,360	0.1%	7,160	0.3%	3,040	0.1%
24	800	0.0%	800	0.0%	840	0.0%
25	20,440	1.1%	24,280	1.1%	16,920	0.8%
26	6,200	0.3%	5,320	0.2%	7,160	0.3%
27	-	0.0%	-	0.0%	-	0.0%
28	96,120	5.3%	156,680	7.3%	175,920	7.9%
29	2,680	0.1%	-	0.0%	-	0.0%
30	12,800	0.7%	27,440	1.3%	25,560	1.1%
32	113,400	6.3%	177,240	8.3%	155,920	7.0%
33	151,160	8.4%	95,520	4.5%	202,600	9.0%
34	37,960	2.1%	54,560	2.6%	43,240	1.9%
35	32,800	1.8%	71,280	3.3%	82,320	3.7%
36	155,320	8.6%	238,400	11.2%	275,080	12.3%
37	489,008	27.2%	538,480	25.2%	678,404	30.3%
39	15,720	0.9%	18,520	0.9%	4,320	0.2%
40	81,400	4.5%	149,360	7.0%	265,760	11.9%
41	3,880	0.2%	47,440	2.2%	58,040	2.6%
42	3,080	0.2%	480	0.0%	1,920	0.1%
43	-	0.0%	-	0.0%	-	0.0%
46	400	0.0%	-	0.0%	160	0.0%
49	201,320	11.2%	201,320	9.4%	-	0.0%
TOTALS	1,798,408	100%	2,136,360	100%	2,241,004	100%

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 71 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 2016 Carload Waybill Sample

Listed below are the types of errors found in the 2016 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>In order 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. Umler Error Codes and Messages

Code	Message
01	<p data-bbox="391 310 748 342">WAYBILL ID IS INVALID</p> <p data-bbox="391 363 1406 527">The waybill ID must be '1' if MRI, and 'blank' if Hardcopy. During each edit, the AAR/Railinc will calculate the proper waybill ID, based on the sampled waybill's stratum number. If the stratum number is 1, 2, 3, 4 or 5, the waybill is MRI and the ID should be '1'. If the stratum number is 6, 7 or 8, the waybill is hardcopy and the ID should be 'blank'. (See item 28)</p> <p data-bbox="391 548 1382 611">Note: The Waybill ID, wherever referenced, applies only to the record format of the 'raw' sampled waybill, and not to that of the final master file waybill.</p>
02	<p data-bbox="391 657 813 688">INVALID WAYBILL NUMBER</p> <p data-bbox="391 709 841 741">The waybill number must be numeric.</p>
03	<p data-bbox="391 787 764 819">INVALID WAYBILL DATE</p> <p data-bbox="391 840 1398 903">The waybill date must fall before December 31, 1999. The waybill was not processed for the current waybill year if the date was out of bounds.</p>
04	<p data-bbox="391 949 854 980">INVALID ACCOUNTING PERIOD</p> <p data-bbox="391 1001 1398 1064">The accounting period date must be numeric. The month must be greater than '0' and less than '17'.</p> <p data-bbox="391 1085 1328 1148">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 data-bbox="391 1205 776 1236">INVALID CARLOAD FIELD</p> <p data-bbox="391 1257 1057 1289">The carload field must be numeric and greater than zero.</p>
06	<p data-bbox="391 1335 716 1367">INVALID CAR INITIAL</p> <p data-bbox="391 1388 894 1419">The car initial cannot be blank or numeric.</p>
07	<p data-bbox="391 1465 732 1497">INVALID CAR NUMBER</p> <p data-bbox="391 1518 792 1549">The car number must be numeric.</p>
08	<p data-bbox="391 1596 792 1627">Umler RECORD NOT FOUND</p> <p data-bbox="391 1648 1247 1680">The car initial and number combination was not found in the Umler File.</p>
09	<p data-bbox="391 1726 932 1757">INVALID TOFC/COFC SERVICE CODE</p> <p data-bbox="391 1778 1377 1810">The TOFC/COFC Service Code (STB Alternate Code) specified is not a valid code.</p>

Code	Message
10	INVALID TOFC/COFC LOAD COUNT 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.
11	INVALID INTERMODAL CAR INITIAL If a TOFC/COFC move is indicated, the intermodal car initial cannot be blank or numeric.
12	INVALID INTERMODAL CAR NUMBER If a TOFC/COFC move is indicated, the intermodal car number must be numeric.
13	NO TOFC/COFC Umler RECORD FOUND The TOFC/COFC unit initial and number combination could not be found in the Umler File.
14	Umler EQUIPMENT TYPE CODE NOT P, Q OR S The car initial and number combination is not assigned to an intermodal flat car. If the car carrying a trailer or container is not a flat car of any type, flag 55 is placed in the error field.
15	INVALID STCC NUMBER The STCC number could not be found in the STCC Master file.
16	BILLED WEIGHT STCC The billed weight ton equivalent, divided by the number of waybill carloads, cannot be less than or greater than the range specified in the table look-up (by two-digit STCC). The range represents positive values plus and minus 4 standard deviations from the mean.
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.

Code	Message
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	INVALID TYPE-MOVE CODE The type-move code must be either '0', '1', '2', '3' or '9'.
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 (MRI and Manual) The rebill code must be either '0', '1', '2' or '3'.

Code	Message
28	<p data-bbox="391 275 716 306">INVALID STRATUM ID</p> <p data-bbox="391 327 1398 422">If the waybill was submitted by MRI means (i.e., the waybill ID is 1), the Stratum ID will be calculated based on the number of carloads on the waybill. If the MRI waybill has:</p> <ul data-bbox="440 443 943 632" style="list-style-type: none"> • 1-2 carloads, the stratum ID is 1. • 3-15 carloads, the stratum ID is 2. • 16-60 carloads, the stratum ID is 3. • 61-100 carloads, the stratum ID is 4. • 101-9999 carloads, the stratum ID is 5. <p data-bbox="391 653 1065 684">If the Hardcopy waybill (i.e. the waybill ID is blank) has:</p> <ul data-bbox="440 705 927 810" style="list-style-type: none"> • 1-5 carloads, the stratum ID is 6. • 6-25 carloads, the stratum ID is 7. • 26-9999 carloads, the stratum ID is 8. <p data-bbox="391 831 1357 894">These calculations are made each time the sample is edited. Please note that the ‘Waybill ID’ is only applicable to the record format for the ‘raw’ sampled waybill.</p>
29	<p data-bbox="391 940 894 972">INVALID SUBSAMPLE ID (MRI only)</p> <p data-bbox="391 993 1382 1098">The subsample ID must be either ‘1’, ‘2’, ‘3’ or ‘4’. At this stage in processing this field is blank for Hardcopy waybills. During final processing, Railinc will calculate subsample codes for Hardcopy waybills.</p>
31	<p data-bbox="391 1140 894 1171">INVALID REPORTING 260 NUMBER</p> <p data-bbox="391 1192 1211 1224">The reporting 260 number was not found in the Railroad Register file.</p>
32	<p data-bbox="391 1272 764 1304">ORIGIN FSAC NOT VALID</p> <p data-bbox="391 1325 1373 1356">The Origin FSAC and 260 number combination could not be found in the CSM file.</p>
33	<p data-bbox="391 1404 829 1436">INVALID ORIGIN 260 NUMBER</p> <p data-bbox="391 1457 1317 1520">The Rule 260 number for the origin railroad could not be found in the Railroad Register file.</p>
34	<p data-bbox="391 1566 886 1598">1ST RULE 260 ABBREV IS INVALID</p> <p data-bbox="391 1619 1365 1650">The Rule 260 junction abbreviation could not be found in the Reload Location file.</p>
35	<p data-bbox="391 1698 805 1730">1ST 260 NUMBER IS INVALID</p> <p data-bbox="391 1751 1365 1814">The Rule 260 number for the 1st bridge railroad could not be found in the Railroad Register file.</p>

Code	Message
36	2ND RULE 260 ABBREV IS INVALID The Rule 260 junction abbreviation could not be found in the Reload Location file.
37	2ND 260 NUMBER IS INVALID The Rule 260 number for the 2nd bridge railroad could not be found in the Railroad Register file.
38	3RD RULE 260 ABBREV IS INVALID The Rule 260 junction abbreviation could not be found in the Reload Location file.
39	3RD 260 NUMBER IS INVALID The Rule 260 number for the 3rd bridge railroad could not be found in the Railroad Register file.
40	4TH RULE 260 ABBREV IS INVALID The Rule 260 junction abbreviation could not be found in the Reload Location file.
41	4TH 260 NUMBER IS INVALID The Rule 260 number for the 4th bridge railroad could not be found in the Railroad Register file.
42	5TH RULE 260 ABBREV IS INVALID The Rule 260 junction abbreviation could not be found in the Reload Location file.
43	5TH 260 NUMBER IS INVALID The Rule 260 number for the 5th bridge railroad could not be found in the Railroad Register file.
44	6TH RULE 260 ABBREV IS INVALID The Rule 260 junction abbreviation could not be found in the Reload Location file.
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 Reload Location file.

Code	Message
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 Reload Location file.
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 Reload Location file.
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 CSM file.
53	INVALID INTER-INTRA STATE CODE If the origin state, destination state, and all states in the routing information are the same, the code must be '2'. If the states are different, the code must be '1'. This is calculated each time the waybill sample is edited.
54	REVENUE AMOUNT IS ZERO If the revenue amount is zero, the transit code must be '1' or '9'.
55	TC 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.

Code	Message
57	BILLED WEIGHT CAPACITY Billed weight is greater than load limit.
58	TRANSBORDER Transborder code must be '0', '1', or '2'.
59	CONTRACT Contract code must be '0' or '1'.
60–63	NOT USED
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	SAMPLE DENSITY CHECK The population count for each stratum is included in the JCL for each waybill sample edit. The AAR/Railinc checks the validity of the sample by comparing the expected sample density with the actual density. Note: This is not an error flag. If there is a discrepancy between the expected and actual sample densities, an error message is printed on the edit program output.
68	SAMPLE SIZE CHECK The reported sample size for each stratum is included in the JCL for each waybill sample edit. The AAR/Railinc checks the validity of the sample by comparing the expected sample size with the actual sample size. Note: This is not an error flag. If there is a discrepancy between the expected and actual sample sizes, an error message is printed on the edit program output.
69	FIRST RULE INTERCHANGE IS MISSING Although an interline shipment is indicated, no first junction information has been provided.

Code	Message
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.

2016 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)
Union Pacific (UP-802)
Kansas City Southern (KCS—400)
Norfolk Southern (NS—555)

Quarterly Reporting Roads

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)
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)
Columbus & Greenville (CAGY—177)
DeQueen and Eastern (DQE—200)
Escanaba & Lake Superior Railroad (ELS—241)
Florida East Coast (FEC - 263)
Georgia Central Railway (GC—395)
Illinois & Midland Railroad (IMRR—361)
Indiana Rail Road (INRD—780)
Iowa Interstate Railroad (IAIS—316)
Louisville & Indiana Railroad (LIRC—434)
Lake State Railway (LSRC - 408)
Little Rock & Western Railway (LRWN-485)
Lake Superior and Ishpeming (LSI—425)
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)
Rockdale Sandow & Southern (RSS—675)
Sand Springs Railway (SS-707)
ST Rail System (ST-746)
Toledo Peoria & Western (TPW—769)
Trona Railway (TRC—779)
Tomahawk Railway (TR—772)
Twin Cities & Western (TCWR—768)
Vermont Railway (VTR—817)
Wheeling & Lake Erie (WE—856)
Wisconsin & Southern (WSOR—879)

Proxy Equipment Types for the 206 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 432-byte file; 286-289 in 900-byte file) and Mechanical Designation (columns 302-305 in the 432-byte file; 290-293 in 900-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—2016 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 2016 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 2016 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 432 byte 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 by the use of 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 2016 WAYBILL RECORD LAYOUTS AND WAYBILL REFERENCES

The following documentation is included in this section:

- I. 2016 SURFACE TRANSPORTATION BOARD CARLOAD WAYBILL SAMPLE
 - A. 900-byte STB Waybill File Record Layout
 - B. 900-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. 2016 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

900-Byte STB Waybill File Record Layout

Table 4-1. 900-Byte STB Waybill File Record Layout

Field	Data Description	Number of Positions	Form	Columns
1	Unique Serial Number	6	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

900-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. 900-Byte Waybill File Record Data Element Descriptions

Field	Description
1	<p>Unique Serial Number (6-digit numeric)</p> <p>To allow for unique identification of waybills, the AAR/Railinc assigns a six-digit number 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 and 000,000 to 099,999⁵.</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 (6-digit numeric)</p> <p>The waybill date is the date on which the originating railroad prepares the waybill (mmddccyy) where, mm = month, dd = day, cc = century, yy = year¹.</p>
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>

Field	Description
5	Number of Carloads (4-digit numeric) The total number of carloads on the sampled waybill ¹ .
6	Car Initials (4-character alpha) 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 entered ¹ .
7	Car Number (6-digit numeric) 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 entered ¹ .
8	TOFC/COFC Service Code (3-digit 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 ISCs are used during the course of 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. Note: Three blanks in this field indicates the movement is not intermodal in nature. 'Unknown' ISCs are indicated by 'X' ¹ .

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
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

Intermodal Service Code	Unit Owner	Service Provided by Carrier	Determination of Charges	STB Alternate Coding
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	<p>Number of TOFC/COFCs (4-digit numeric)</p> <p>The total number of TOFC/COFC units on the sample waybill¹.</p>
10	<p>Trailer or Container Initials (4-character alpha)</p> <p>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.</p>
11	<p>Trailer or Container Number (6-digit numeric)</p> <p>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.</p>
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>

Field	Description
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> <ul style="list-style-type: none"> (1) Interstate (2) Intrastate (9) Unknown¹
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

Field	Description
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
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>

Field	Description																																				
25	<p>Rebill Code (MRI and Hardcopy) (1-digit numeric)</p> <p>(0) Local Shipment (1) Originated – Delivered (2) Received – Delivered (3) Received – Terminated</p>																																				
26	<p>Stratum Identification (1-digit numeric)</p> <table border="1"> <thead> <tr> <th></th> <th></th> <th><i>Carloads per Waybill</i></th> <th><i>Sampling Rate</i></th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>MRI</td> <td>1–2</td> <td>1 of 40</td> </tr> <tr> <td>(2)</td> <td>MRI</td> <td>3–15</td> <td>1 of 12</td> </tr> <tr> <td>(3)</td> <td>MRI</td> <td>16–60</td> <td>1 of 4</td> </tr> <tr> <td>(4)</td> <td>MRI</td> <td>61–100</td> <td>1 of 3</td> </tr> <tr> <td>(5)</td> <td>MRI</td> <td>Over 100</td> <td>1 of 2</td> </tr> <tr> <td>(6)</td> <td>Hardcopy</td> <td>1–5</td> <td>1 of 100</td> </tr> <tr> <td>(7)</td> <td>Hardcopy</td> <td>6–25</td> <td>1 of 10</td> </tr> <tr> <td>(8)</td> <td>Hardcopy</td> <td>26 or more</td> <td>1 of 5^{1 or 6}</td> </tr> </tbody> </table>			<i>Carloads per Waybill</i>	<i>Sampling Rate</i>	(1)	MRI	1–2	1 of 40	(2)	MRI	3–15	1 of 12	(3)	MRI	16–60	1 of 4	(4)	MRI	61–100	1 of 3	(5)	MRI	Over 100	1 of 2	(6)	Hardcopy	1–5	1 of 100	(7)	Hardcopy	6–25	1 of 10	(8)	Hardcopy	26 or more	1 of 5 ^{1 or 6}
		<i>Carloads per Waybill</i>	<i>Sampling Rate</i>																																		
(1)	MRI	1–2	1 of 40																																		
(2)	MRI	3–15	1 of 12																																		
(3)	MRI	16–60	1 of 4																																		
(4)	MRI	61–100	1 of 3																																		
(5)	MRI	Over 100	1 of 2																																		
(6)	Hardcopy	1–5	1 of 100																																		
(7)	Hardcopy	6–25	1 of 10																																		
(8)	Hardcopy	26 or more	1 of 5 ^{1 or 6}																																		
27	<p>Subsample Code Number (1-digit numeric)</p> <p>For MRI waybills, this coding (1, 2, 3, or 4) identifies the individual subsamples obtained under the computerized sampling procedure. This field is initialized to a blank for Hardcopy (FTP) waybills, but a replicate subsample code is added during completion of the master file, using the following formula:</p> $\text{Code} = \text{Serial Number} - ((\text{Serial Number} / 4) * 4) + 1 \text{ truncated integer}$ <p>These subsample code numbers are used in a statistical fashion to estimate the standard deviation, or accuracy, of any level for the particular sample⁵.</p>																																				

Field	Description
28	<p>Intermodal Equipment Flag (1-digit numeric)</p> <p>(0) TOFC/COFC movement and non 'Road Railer' 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 (MRI only) (25-character alpha-numeric)</p> <p>The waybill identifier field is a set of codes or numbers, devised by the reporting railroad, meant to aid the reporting railroad in identifying and retrieving a copy of the study waybill, as required, for error checks or for an STB special study.</p> <p>Note: This item appears on MRI records only¹.</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>

900-Byte File Record Data Element Descriptions (Routing items 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 owning 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
-------	-------------

- 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	Pool Code Number (7-digit numeric) 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 435 ² .
70	AAR Equipment Type Code (4-character alphanumeric) Alphanumeric code giving a general physical description of the type of car ² .
71	Mechanical Designation (4-character alpha) Mechanical designation is dependent on AAR equipment type ² .
72	Licensing State (TOFC) (2-character alpha) An alphabetic code representing the Standard Alphabetic Abbreviation for state, province or foreign country. This is applicable only to rail-owned TOFC/COFC equipment ² .
73	Total Weight on Rail (3-digit numeric) 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 pounds ² .
74	Origin SPLC (6-digit numeric) The Standard Point Location Code of the origin station ³ .
75	Destination SPLC (6-digit numeric) The Standard Point Location Code of the destination station ³ .
76	Commodity Code (non-HAZMAT STCC) (7-digit numeric) The commodity code, as reported in item 12, with hazardous codes (49xxxxx) and bulk codes (50xxxxx) translated to the actual product commodity code ⁸ .
77	Origin Railroad Alpha (4-character alpha) The Accounting Rule 260 alpha abbreviation for the origin railroad ³ .
78	First Interchange RR Alpha (4-character alpha) The Accounting Rule 260 alpha abbreviation for the first bridge railroad ³ .

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 900-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 900-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 item 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, so as 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>
90	<p>STB Car Type (2-digit numeric)</p> <p>The STB car type is inferred from the AAR Equipment Type, as described in item 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>Alpha/numeric code which identifies the owner of the car:</p> <ul style="list-style-type: none"> (R) Railroad owned; (P) Privately Owned; (T) Trailer Train²
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-character 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 (item 5) multiplied by the expansion factor (item 88)⁶.</p>
99	<p>Billed Weight in Tons (7-digit numeric)</p> <p>The billed weight (item 13) calculated in tons⁶.</p>
100	<p>Expanded Tons (8-digit numeric)</p> <p>The billed weight in tons (item 99) multiplied by the expansion factor (item 88)⁶.</p>
101	<p>Expanded Trailer/Container Count (6-digit numeric)</p> <p>The number of TOFC/COFC units (item 9) multiplied by the expansion factor (item 88)⁶.</p>

Field	Description
102	<p>Expanded Total Revenue (10-digit numeric)</p> <p>The total freight revenue (item 15) multiplied by the expansion factor (item 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 (item 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 (item 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 (item 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 (item 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 (item 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 (item 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 (item 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 (item 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 (item 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 (item 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 (item 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 (item 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 (item 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 (item 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 (item 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 (item 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 (item 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	<p>Third Junction State Alpha (2-character alpha)</p> <p>The two-character abbreviation for the state in which the reported waybill's third junction interchange station is located³.</p>
128	<p>Fourth Junction State Alpha (2-character alpha)</p> <p>The two-character abbreviation for the state in which the reported waybill's fourth junction interchange station is located³.</p>
129	<p>Fifth Junction State Alpha (2-character alpha)</p> <p>The two-character abbreviation for the state in which the reported waybill's fifth junction interchange station is located³.</p>
130	<p>Sixth Junction State Alpha (2-character alpha)</p> <p>The two-character abbreviation for the state in which the reported waybill's sixth junction interchange station is located³.</p>
131	<p>Seventh Junction State Alpha (2-character alpha)</p> <p>The two-character abbreviation for the state in which the reported waybill's seventh junction interchange station is located³.</p>
134	<p>Termination State Alpha (2-character alpha)</p> <p>The two-character abbreviation for the state in which the reported waybill movement terminated³.</p>
135	<p>Origin BEA Area (3-digit numeric)</p> <p>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</p>
136	<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>
137	<p>Origin FIPS Code (5-digit numeric)</p> <p>The Federal Information Processing Standard code for the county in which the reported waybill movement originated⁷.</p>

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 1425 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 1425 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 1425 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 1425 1644">(4) All points in Official Territory other than those included in 1, 2, and 3 above. <li data-bbox="391 1665 1425 1696">(5) Mississippi River crossings on both banks of the river south of Cairo, Illinois. <li data-bbox="391 1717 1425 1749">(6) All points in Southern Territory other than those included in 2 and 5 above.

Field	Description
139	<p data-bbox="394 289 1029 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 978">(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 item 139⁴.</p>

Field	Description
141	<p data-bbox="391 283 987 317">Origin Freight Rate Territory (1-digit numeric)</p> <p data-bbox="391 331 1382 432">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="391 449 756 480">(0) Cannot be Determined <li data-bbox="391 499 1419 1136">(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 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 1155 1419 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="391 1337 1419 1669">(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 item 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 “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-character 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-character 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 (22- characters)</p>
180	<p>Origin Census Region (4-character alpha)</p> <p>(See Figure 4-1, U.S. Census Regions.)⁹</p>
181	<p>Termination Census Region (4-character alpha)</p> <p>(See Figure 4-1, U.S. Census Regions.)⁹</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 an 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 (item 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 (item 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 (item 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 (item 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 (item 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 (item 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 (item 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 (item 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> <ul style="list-style-type: none"> (0) Normal Transborder (1) Near the Border (2) Not a Transborder
194	<p>Origin Railroad Country Code (2-character alpha)</p> <p>Country code for the origin 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
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>
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>

Sources:

- 1 Reported by Railroad
- 2 Umler - function of Car Initial (item 6) and Car Number (item 7)
- 3 Centralized Station Master (CSM) - function of Railroad (item 33, 51) and Freight Station (item 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 in order 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	NESHOBA	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	MCAIRY	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	KITTSOIN	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
167	LAKE	OR
167	LINCOLN	OR
167	LINN	OR
167	MARION	OR
167	MULTNOMAH	OR
167	POLK	OR
167	SHERMAN	OR
167	SKAMANIA	WA
167	TILLAMOOK	OR
167	WAHKIAKUM	WA
167	WASCO	OR
167	WASHINGTON	OR
167	YAMHILL	OR
168	BAKER	OR
168	COLUMBIA	WA
168	GILLIAM	OR
168	GRANT	OR

BEA	COUNTY	ST
168	MORROW	OR
168	UMATILLA	OR
168	UNION	OR
168	WALLA WALLA	WA
168	WALLOWA	OR
168	WHEELER	OR
169	ADAMS	WA
169	BENTON	WA
169	CHELAN	WA
169	DOUGLAS	WA
169	FRANKLIN	WA
169	GRANT	WA
169	KITTITAS	WA
169	OKANOGAN	WA
169	YAKIMA	WA
170	CLALLAM	WA
170	GRAYS HARBOR	WA

BEA	COUNTY	ST
170	ISLAND	WA
170	JEFFERSON	WA
170	KING	WA
170	KITSAP	WA
170	LEWIS	WA
170	MASON	WA
170	PACIFIC	WA
170	PIERCE	WA
170	SAN JUAN	WA
170	SKAGIT	WA
170	SNOHOMISH	WA
170	THURSTON	WA
170	WHATCOM	WA
171	ANCHORAGE	AK
172	HONOLULU	HI

2016 Surface Transportation Board Public Use Waybill 247-Byte Record Layout

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

Item	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

Item	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

2016 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 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 IX)</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 item 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
-------	-------------

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 course of 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	<p>Number of TOFC/COFC Units (4-digit numeric)</p> <p>The total number of TOFC/COFC units reported on the sampled waybill¹.</p>
10	<p>Intermodal Unit Ownership Code (1-character alpha)</p> <p>(P) Privately-owned Trailer/Container (R) Railroad-owned Trailer/Container²</p>
11	<p>Intermodal Unit Type Code (1-character alpha)</p> <p>(T) TOFC Trailer (C) COFC Container (U) Unknown²</p>
12	<p>Hazardous/Bulk Material in Boxcar (1-character alpha)</p> <p>(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 above⁸</p>
13	<p>Commodity Code (STCC / non-HAZMAT) (5-digit numeric)</p> <p>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 headers¹.</p> <p>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.</p>
14	<p>Billed Weight in Tons (7-digit numeric)</p> <p>The billed weight of lading, calculated in tons¹.</p>
15	<p>Actual Weight in Tons (7-digit numeric)</p> <p>The actual weight of lading (if provided), calculated in tons¹.</p>
16	<p>Freight Revenue (\$) (9-digit numeric)</p> <p>The total line-haul freight revenue, from origin to destination, shown in dollars¹.</p>
17	<p>Transit Charges (\$) (9-digit numeric)</p> <p>Transit charges, where applicable, shown in dollars¹.</p>

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.
25	<p>Rebill Code (1-digit numeric)</p> <ul style="list-style-type: none"> (0) local shipment (1) originated—delivered (2) received—delivered (3) received—terminated
26	<p>Estimated Short Line Miles (rounded) (4-digit numeric)</p> <p>The short line miles (shortest rail distance between origin and destination), rounded up to the nearest ten miles⁶.</p>

Field	Description																											
27	<p>Stratum Identification (1-digit numeric)</p> <table border="1"> <thead> <tr> <th></th> <th><i>Carloads per Waybill</i></th> <th><i>Sampling Rate</i></th> </tr> </thead> <tbody> <tr> <td>(1) MRI</td> <td>1–2</td> <td>1 of 40</td> </tr> <tr> <td>(2) MRI</td> <td>3–15</td> <td>1 of 12</td> </tr> <tr> <td>(3) MRI</td> <td>16–60</td> <td>1 of 4</td> </tr> <tr> <td>(4) MRI</td> <td>61–100</td> <td>1 of 3</td> </tr> <tr> <td>(5) MRI</td> <td>Over 100</td> <td>1 of 2</td> </tr> <tr> <td>(6) Hardcopy (FTP)</td> <td>1–5</td> <td>1 of 100</td> </tr> <tr> <td>(7) Hardcopy (FTP)</td> <td>6–25</td> <td>1 of 10</td> </tr> <tr> <td>(8) Hardcopy (FTP)</td> <td>26 or more</td> <td>1 of 5^{1 or 6}</td> </tr> </tbody> </table>		<i>Carloads per Waybill</i>	<i>Sampling Rate</i>	(1) MRI	1–2	1 of 40	(2) MRI	3–15	1 of 12	(3) MRI	16–60	1 of 4	(4) MRI	61–100	1 of 3	(5) MRI	Over 100	1 of 2	(6) Hardcopy (FTP)	1–5	1 of 100	(7) Hardcopy (FTP)	6–25	1 of 10	(8) Hardcopy (FTP)	26 or more	1 of 5 ^{1 or 6}
	<i>Carloads per Waybill</i>	<i>Sampling Rate</i>																										
(1) MRI	1–2	1 of 40																										
(2) MRI	3–15	1 of 12																										
(3) MRI	16–60	1 of 4																										
(4) MRI	61–100	1 of 3																										
(5) MRI	Over 100	1 of 2																										
(6) Hardcopy (FTP)	1–5	1 of 100																										
(7) Hardcopy (FTP)	6–25	1 of 10																										
(8) Hardcopy (FTP)	26 or more	1 of 5 ^{1 or 6}																										
28	<p>Subsample Code Number (1-digit numeric)</p> <p>For MRI waybills, this coding (1, 2, 3, or 4) identifies the individual subsamples obtained under the computerized sampling procedure. This field is initialized to a blank for Hardcopy waybills, but a replicate subsample code is added during completion of the master file, using the following formula:</p> $\text{Code} = \text{Serial Number} - ((\text{Serial Number} / 4) * 4) + 1 \text{ truncated integer}$ <p>These subsample code numbers are used in a statistical fashion to estimate the standard deviation, or accuracy, of any level for the particular sample⁵.</p>																											
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 (item 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="391 268 987 304">Origin Freight Rate Territory (1-digit numeric)</p> <p data-bbox="391 317 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="391 436 760 472">(0) Cannot be Determined <li data-bbox="391 485 1427 1123">(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 1136 1427 1304">(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 1316 1427 1654">(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 1/4" = 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="1"> <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(Z)</td> <td></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		
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																																																																						
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, so as 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 (item 3) multiplied by the expansion factor (item 30)⁶.</p>																																																																								

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

Sources:

- 1 Reported by Railroad
- 2 Umler - function of Car Initial (item 6) and Car Number (item 7)
- 3 Centralized Station Master (CSM) - function of Railroad (item 33, 51) and Freight Station (item 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

011	FIELD CROPS	01144	SOYBEANS (SOYA BEANS)
0112	COTTON, RAW	01149	OIL KERNELS, NUTS OR SEEDS, NEC EXC. EDIBLE TREE NUTS SEE 01298 OR 20712
01129	RAW COTTON, NEC		
0113	GRAIN	0115	FIELD SEEDS EXC. OIL SEEDS SEE 0114
01131	BARLEY		
01132	CORN EXC. POPCORN SEE 01152	01151	LAWN GRASS SEEDS
01133	OATS	01152	POPCORN
01134	RICE, ROUGH	01159	FIELD SEEDS, NEC EXC. SEEDS SEE 01141-01149
01135	RYE	0119	MISCELLANEOUS FIELD
01136	SORGHUM GRAINS	01191	FODDER, HAY OR ROUGHAGE EXC. CHOPPED, GROUND OR PULVERIZED SEE 01991-01992
01137	WHEAT EXC. BUCKWHEAT SEE 01139		
01139	GRAIN, NEC	01192	HOPS
0114	OIL KERNELS, NUTS OR SEEDS EXC. EDIBLE TREE NUTS SEE 0129 OR 2071	01193	LEAF TOBACCO
		01194	POTATOES, SWEET
01141	COTTONSEEDS	01195	POTATOES, OTHER THAN SWEET
01142	FLAXSEEDS	01196	STRAW EXC. CHOPPED, GROUND OR PULVERIZED SEE 01991
01143	PEANUTS	01197	SUGAR BEETS

01198	SUGAR CANE	013	FRESH VEGETABLES
01199	FIELD CROPS, NEC	0131	BULBS, ROOTS OR TUBERS, WITH OR WITHOUT TOPS POTATOES SEE 0119
012	FRESH FRUITS OR TREE		
0121	CITRUS FRUITS	01311	BEETS EXC. SUGAR BEETS SEE 01197
01211	GRAPEFRUIT		
01212	LEMONS	01312	CARROTS
01214	ORANGES	01313	ONIONS, GREEN
01215	TANGERINES	01315	RADISHES
01219	CITRUS FRUITS, NEC	01317	TURNIPS
0122	DECIDUOUS FRUITS	01318	ONIONS, DRY
01221	APPLES	01319	BULBS, ROOTS OR TUBERS, WITH OR WITHOUT TOPS, EXC. POTATOES, SWEET SEE 01194 OR OTHER THAN SEE 01195
01222	APRICOTS		
01223	CHERRIES	0133	LEAFY FRESH VEGETABLES
01224	GRAPES		
01225	NECTARINES	01331	BROCCOLI
01226	PEACHES	01332	BRUSSELS SPROUTS
01227	PEARS	01333	CABBAGE
01228	PLUMS OR PRUNES EXC. MARMALADE PLUMS SEE 01239	01334	CELERY
01229	DECIDUOUS FRUITS, NEC	01335	LETTUCE
0123	TROPICAL FRUITS EXC. CITRUS SEE 0121	01336	CHARD, KALE OR SPINACH
01231	AVOCADOS	01337	CAULIFLOWER
01232	BANANAS	01339	LEAFY FRESH VEGETABLES, NEC
01233	PINEAPPLES	0134	FIELD DRY RIPE VEGETABLE FOOD SEEDS EXC. ARTIFICIALLY DRIED SEE 2034
01239	TROPICAL FRUITS, NEC CITRUS SEE 01211-01219	01341	BEANS, DRY RIPE
0129	MISCELLANEOUS FRESH FRUITS OR TREE NUTS	01342	PEAS, DRY
01291	BUSH OR CANE BERRIES	01343	COWPEAS, LENTILS OR LUPINES
01292	CRANBERRIES	01349	FIELD DRY RIPE VEGETABLE FOOD SEEDS, NEC EXC. ARTIFICIALLY DRIED SEE 20342-20343
01293	STRAWBERRIES	0139	MISCELLANEOUS FRESH TABLES
01294	COCOA BEANS	01391	BEANS, STRING, LIMA OR WAX, OR PEAS, GREEN OR FRESH
01295	COFFEE, GREEN	01392	WATERMELONS
01298	NUTS, EDIBLE, IN THE SHELL EXC. PEANUTS SEE 01143	01393	SWEET CORN
01299	FRESH FRUITS OR TREE NUTS, NEC	01394	TOMATOES
		01395	CUCUMBERS

01396	PEPPERS	019	MISCELLANEOUS FARM PRODUCTS
01397	PUMPKINS OR SQUASH	0191	HORTICULTURAL
01398	CANTALOUPE, MELONS OR MUSKMELONS EXC. WATERMELONS SEE 01392	01912	NURSERY STOCK VIZ. BULBS, PLANTS OR TUBERS, SHRUBS, OR TREES, FRUIT OR SHADE, OR VINES, ETC.
01399	FRESH VEGETABLES, NEC	01915	HERBS (SEEDS, LEAVES, ROOTS, ETC.)
014	LIVESTOCK OR LIVESTOCK PRODUCTS	01916	MUSHROOMS, FRESH
0141	LIVESTOCK EXC. HORSES OR MULES SEE 0192	01917	VEGETABLE OR BERRY
01411	CATTLE VIZ. BULLS, COWS, HEIFERS, OXEN OR STEERS	01918	FLOWER OR VEGETABLE
01412	CALVES	01919	HORTICULTURAL SPECIALTIES, NEC
01413	SWINE VIZ. BARROWS, BOARS, HOGS, PIGS OR	01921	HORSES OR MULES, LIVE VIZ. COLTS, GELDINGS, MARES, PONIES OR STALLIONS, OR FOR MULES, ASSES, BURROS, DONKEYS, JACKS OR JENNIES
01414	SHEEP VIZ. EWES, LAMBS, RAMS OR WETHERS	01923	HIDES, PELTS OR SKINS, NOT TANNED EXC. CATTLE, GOAT, HORSE, MULE, SHEEP OR SWINE SEE 20141, MARINE ANIMAL SEE 09132
01415	GOATS OR KIDS	01928	ANIMAL OR POULTRY MANURE
01419	LIVESTOCK, NEC EXC. HORSES OR MULES SEE	01929	ANIMAL SPECIALTIES, NEC
0142	DAIRY FARM PRODUCTS EXC. PASTEURIZED SEE 2026	0199	FARM PRODUCTS, NEC
01421	DAIRY FARM PRODUCTS EXC. PASTEURIZED SEE 20251-20264	01991	CHOPPED, GROUND OR PULVERIZED HAY, STRAW OR RELATED AGRICULTURAL PRODUCTS EXC. ALFALFA 01992
0143	ANIMAL FIBRES	01992	CHOPPED, GROUND OR PULVERIZED ALFALFA
01431	WOOL EXC. SCOURED SEE 22971	01999	FARM PRODUCTS, NEC
01432	MOHAIR (ANGORA GOAT EXC. SCOURED SEE 22971 FIBRES, NEC	08	FOREST PRODUCTS
015	POULTRY OR POULTRY PRODUCTS	084	BARKS OR GUMS, CRUDE
0151	LIVE POULTRY	0842	BARKS OR GUMS, CRUDE
01511	LIVE CHICKENS EXC. BABY SEE 01513	08422	BARKS OR GUMS, CRUDE LATEX OR ALLIED GUMS (CRUDE RUBBER) SEE 08423
01512	LIVE TURKEYS EXC. BABY SEE 01513	08423	LATEX GUMS (CRUDE RUBBER) OR ALLIED GUMS
01513	LIVE BABY POULTRY	086	MISCELLANEOUS FOREST PRODUCTS
01519	LIVE POULTRY, NEC	0861	MISCELLANEOUS FOREST PRODUCTS
0152	POULTRY EGGS		
01521	EGGS, MARKET		
01522	HATCHING EGGS, CHICKEN		
01523	HATCHING EGGS, TURKEY		
01529	POULTRY EGGS, NEC		

08611	CHRISTMAS TREES EXC. ARTIFICIAL SEE 39621	10113	IRON CONCENTRATES OR AGGLOMERATES
08612	DECORATIVE EVERGREENS, HOLLY OR MISTLETOE EXC. ARTIFICIAL SEE 39621	102	COPPER ORES
08613	FERNS EXC. ARTIFICIAL 39621	1021	COPPER ORES
08619	FOREST PRODUCTS, NEC, OR TREE SEEDS, INEDIBLE OIL SEEDS SEE 01141-01149	10211	CRUDE COPPER ORES
09	FRESH FISH OR OTHER MARINE PRODUCTS	10212	COPPER CONCENTRATES OR PRECIPITATES
091	FRESH FISH OR OTHER MARINE PRODUCTS EXC. PROCESSED SEE 203	103	LEAD OR ZINC ORES
0912	FRESH FISH OR WHALE PRODUCTS, OR FRESH UNPACKAGED (UNPROCESSED) FISH EXC. FRESH OR FRESH FROZEN PROCESSED FISH 2036	1031	LEAD ORES
09121	FINFISH	10311	CRUDE LEAD ORES
09122	SHELLFISH	10312	LEAD CONCENTRATES
09123	WHALE PRODUCTS	1032	ZINC ORES
0913	OTHER MARINE PRODUCTS	10321	CRUDE ZINC ORES
09131	SHELLS, OYSTER, CRAB, CLAM, ETC.	10322	ZINC CONCENTRATES
09132	MARINE ANIMAL SKINS, UNTANNED EXC. WHALE SEE 09123	1033	LEAD AND ZINC ORES COMBINED
09139	MISCELLANEOUS MARINE PRODUCTS, NEC	10331	CRUDE LEAD AND ZINC ORES COMBINED
098	FISH HATCHERIES, FARMS PRESERVES	10332	LEAD AND ZINC CONCENTRATES COMBINED
0989	FISH HATCHERIES, FARMS PRESERVES	104	GOLD OR SILVER ORES
09891	TROPICAL FISH HATCHERIES OR FARMS	1041	GOLD ORE
10	METALLIC ORES	10411	CRUDE GOLD ORE OR TAILINGS
101	IRON ORES	10412	GOLD CONCENTRATES OR PRECIPITATES OR GOLD BULLION
1011	IRON ORES	1042	SILVER ORE
10111	IRON DIRECT-SHIPPING ORES, CRUDE	10421	CRUDE SILVER ORE OR INGS
10112	IRON BENEFICIATING-GRADE ORES, CRUDE, OR IRON TO PROCESSING OR BENEFICIATING PLANTS	10422	SILVER CONCENTRATES OR SILVER MILL BULLION
		105	BAUXITE OR OTHER ORES
		1051	BAUXITE ORES OR OTHER ALUMINUM ORES
		10511	CRUDE BAUXITE ORES
		10513	CALCINED OR ACTIVATED BAUXITE ORES
		10514	ALUMINUM ORES EXC. BAUXITE SEE 10511 AND 10513
		106	MANGANESE ORES
		1061	MANGANESE ORES
		10611	MANGANESE ORES, CRUDE

10612	MANGANESE BENEFICIATING-GRADE ORE, CRUDE	1311	CRUDE PETROLEUM
10613	MANGANESE CONCENTRATES AGGLOMERATES	13111	CRUDE PETROLEUM
107	TUNGSTEN ORES	1312	NATURAL GAS
1071	TUNGSTEN ORES	13121	NATURAL GAS
10711	CRUDE TUNGSTEN ORES	132	NATURAL GASOLINE EXC. LIQUEFIED PETROLEUM SEE 291
10712	TUNGSTEN CONCENTRATES	1321	NATURAL GASOLINE EXC. LIQUEFIED PETROLEUM SEE 2912
108	CHROMIUM ORES	13211	NATURAL GASOLINE EXC. LIQUEFIED PETROLEUM SEE 29121
1081	CHROMIUM ORES	14	NONMETALLIC MINERALS EXC. FUELS
10811	CRUDE CHROMIUM ORES	141	DIMENSION STONE, QUARRY
10812	CHROMIUM CONCENTRATES	1411	DIMENSION STONE, QUARRY EXC. DRESSED, POLISHED, SHAPED OR OTHERWISE FINISHED SEE 3281
109	MISCELLANEOUS METAL ORES	14111	DIMENSION STONE, QUARRY EXC. DRESSED, POLISHED, SHAPED OR OTHERWISE FINISHED SEE 32811-32819
1092	MISCELLANEOUS METAL ORES	142	CRUSHED OR BROKEN STONE OR RIPRAP
10923	RADIO-ACTIVE ORES UM, RADIUM, ETC)	1421	BROKEN OR CRUSHED STONE, OR RIPRAP EXC. GROUND OR OTHERWISE TREATED SEE 3295
10929	MISCELLANEOUS METAL NEC	14211	AGRICULTURAL LIMESTONE, BROKEN OR CRUSHED EXC. GROUND OR OTHERWISE TED, SEE 32959
11	COAL	14212	FLUXING LIMESTONE OR STONE, BROKEN OR CRUSHED
111	ANTHRACITE	14219	BROKEN OR CRUSHED STONE OR RIPRAP, NEC EXC. GROUND OR OTHERWISE TED, SEE 32951-32959
1111	ANTHRACITE	144	GRAVEL OR SAND
11111	RAW ANTHRACITE	1441	GRAVEL OR SAND EXC. ABRASIVE SEE 1491
11112	PREPARED ANTHRACITE GROUND OR PULVERIZED OTHER THAN FOR FUEL OR STEAM PURPOSES SEE 29919	14411	SAND (AGGREGATE OR BALLAST) EXC. ABRASIVE SEE 14916
112	BITUMINOUS COAL OR LIGNITE	14412	GRAVEL (AGGREGATE OR BALLAST)
1121	BITUMINOUS COAL	14413	INDUSTRIAL SAND, CRUDE, GROUND OR PULVERIZED ABRASIVE SEE 14916 OR TREATED, OTHER THAN GROUND OR PULVERIZED SEE 32952
11211	RAW BITUMINOUS COAL		
11212	PREPARED BITUMINOUS COAL EXC. GROUND OR OTHER THAN FOR FUEL OR STEAM PURPOSES SEE 29919		
11219	BITUMINOUS COAL WASTE		
1122	LIGNITE		
11221	LIGNITE, PREPARED OR RAW EXC. GROUND OR OTHER THAN FOR FUEL OR STEAM PURPOSES SEE 29919		
13	CRUDE PETROLEUM, NATURAL GAS OR GASOLINE		
131	CRUDE PETROLEUM OR NATU RAL GAS		

145	CLAY, CERAMIC OR REFRACTORY MINERALS	14715	ROCK SALT, CRUDE, CRUSHED, LUMP OR EXC. SODIUM CHLORIDE (COMMON SALT), SEE 28991
1451	CERAMIC, CLAY OR REFRACTORY MINERALS, CRUDE EXC. GROUND OR OTHERWISE TREATED SEE 3295	14716	SULPHUR, CRUDE, LIQUID, MOLTEN OR SOLID EXC. GROUND OR OTHERWISE TREATED SEE 32959
14511	BENTONITE, CRUDE EXC. GROUND OR OTHERWISE TREATED SEE 32952	14719	CHEMICAL OR FERTILIZER MINERALS, NEC EXC. OR OTHERWISE TREATED SEE 28711-28719 OR 32951-32959
14512	FIRE CLAY, CRUDE EXC. GROUND OR OTHERWISE TREATED SEE 32952	149	MISCELLANEOUS MINERALS EXC. FUELS SEE 111-112 OR 299
14513	FULLERS EARTH, CRUDE GROUND OR OTHERWISE TREATED SEE 32952	1491	MISCELLANEOUS MINERALS, NEC, CRUDE EXC. GROUND OR OTHERWISE TREATED AT OTHER THAN MINE SITE SEE 3295, OR FUELS SEE 1111-1122 OR 2991
14514	BALL OR KAOLIN CLAY, CRUDE EXC. GROUND OR OTHERWISE TREATED SEE 32952	14911	ANHYDRITE OR GYPSUM, CRUDE EXC. GROUND OR OTHERWISE TREATED AT OTHER THAN MINE SITE SEE 32956
14515	FELDSPAR, CRUDE EXC. GROUND OR OTHERWISE TREATED SEE 32955	14912	MICA, CRUDE EXC. GROUND OR OTHERWISE TREATED SEE 32957
14516	BRUCITE OR MAGNESITE, CRUDE EXC. GROUND OR OTHERWISE TREATED SEE 32953 OR 32959	14913	NATIVE ASPHALT OR BITUMENS
14519	CERAMIC OR CLAY NEC, CRUDE EXC. GROUND OTHERWISE TREATED SEE 32951-32959	14914	PUMICE OR PUMICITE, EXC. GROUND OR OTHERWISE TREATED SEE 32959
147	CHEMICAL OR FERTILIZER MINERALS	14915	PYROPHYLLITE, SOAPSTONE OR TALC, CRUDE EXC. GROUND OR OTHERWISE TREATED SEE 32954
1471	CHEMICAL OR FERTILIZER MINERALS, CRUDE EXC. GROUND OR OTHERWISE TREATED SEE 2871 OR 3275	14916	NATURAL ABRASIVES, FLOUR OR SIZED GRAINS, OR POWDERS EXC. INDUSTRIAL DIAMOND ABRASIVES SEE 32912, OR SAND SEE 14411-14413
14711	BARITE (BARYTES), CRUDE (HEAVY SPAR OR TIFF) GROUND OR OTHERWISE TREATED SEE 32959	14917	PEAT, NATURAL EXC. OR OTHERWISE TREATED SEE 32959
14712	FLUORSPAR (FLUORITE OR FLORSPAR), CRUDE EXC. GROUND OR OTHERWISE TREATED SEE 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
14713	BORATE, POTASH OR SODA, CRUDE EXC. GROUND OR OTHERWISE TREATED SEE 32959 OR 28121-28129		
14714	APATITE OR PHOSPHATE ROCK, CLAY OR SAND, EXC. GROUND OR OTHERWISE TREATED SEE 28194 OR 28712-28719		

14919	NONMETALLIC MINERALS, NEC, LOAM, SOIL OR TOP SOIL, NEC EXC. GROUND OR OTHERWISE TREATED AT OTHER THAN MINE ITE SEE 32951-32959, OR UELS SEE11111-11221 OR see STCC 6001-AJ for full DESCRIPTION	19299	AMMUNITION OR RELATED PARTS, NEC, OR CHEMICAL WARFARE PROJECTILES, DEPTH CHARGES, GRENADES, ROCKETS, OTHER THAN GUIDED MISSILES OR EXC. SMALL ARMS SEE STCC 6001-AJ for full DESCRIPTION
1492	WATER EXC. CARBONATED OR MINERAL SEE 2086	193	FULL TRACKED COMBAT CLES OR PARTS
14921	RAW WATER, FOR CONSTRUCTION OR IRRIGATION PUR POSES	1931	FULL TRACKED COMBAT CLES OR PARTS EXC. WHEELED TACTICAL COMBAT VEHICLES SEE 3711
14922	WATER, DRINKING EXC. BONATED OR MINERAL SEE 20861	19311	MILITARY TANKS OR PARTS EXC. TANK ENGINES SEE 35199
19	ORDNANCE OR ACCESSORIES	19312	MILITARY SELF-PROPELLED COMBAT WEAPONS OR PARTS
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	19313	FULL TRACKED COMBAT CLE OR PARTS EXC. TACTICAL COMBAT VEHICLES SEE 37114
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	194	MILITARY SIGHTING OR CONTROL EQUIPMENT EXC. OPTICAL LENSES OR PRISMS SEE 383
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	1941	MILITARY SIGHTING OR CONTROL EQUIPMENT EXC. OPTICAL LENSES OR PRISMS SEE 3831
192	AMMUNITION, OVER 30 MM (1. 18 INCH) EXC. FOR SMALL ARMS SEE 196	19411	MILITARY SIGHTING OR CONTROL EQUIPMENT EXC. OPTICAL LENSES OR PRISMS SEE 38311
1925	GUIDED MISSILES OR SPACE VEHICLES, COMPLETELY ASSEMBLED	195	SMALL ARMS, 30 MM (1. 18 INCH) OR UNDER, OR PARTS
19251	GUIDED MISSILES OR SPACE VEHICLES, COMPLETELY ASSEMBLED	1951	SMALL ARMS, 30 MM (1. 18 INCH) OR UNDER, OR PARTS
1929	AMMUNITION OR RELATED PARTS, NEC EXC. SMALL ARMS SEE 1961 OR PYROTECHNICS SEE 2899	19511	MACHINE GUNS, 30 MM (1. 18 INCH) OR UNDER, OR PARTS
19291	ARTILLERY AMMUNITION OR RELATED PARTS	19512	SMALL ARMS, NEC, 30 MM (1. 18 INCH) OR UNDER, PARTS, NEC
19293	MILITARY BOMBS, MINES OR RELATED PARTS	196	SMALL ARMS AMMUNITION, 30 MM OR UNDER (1. 18 INCH OR UNDER)
		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
		19611	SMALL ARMS AMMUNITION, 30MM OR UNDER (1. 18 OR UNDER) EXC. BLASTING OR DETONATING CAPS OR SAFETY FUSES SEE 28921 FIREWORKS SEE 28993

199	MISCELLANEOUS ORDNANCE, ACCESSORIES OR PARTS	2015	DRESSED POULTRY OR BY- PRODUCTS OR SMALL OR BY- PRODUCTS, FRESH OR CHILLED
1991	MISCELLANEOUS ORDNANCE, ACCESSORIES OR PARTS	20151	DRESSED POULTRY OR SMALL GAME, FRESH OR CHILLED
19911	MISCELLANEOUS ORDNANCE, ACCESSORIES OR PARTS	20158	POULTRY OR SMALL GAME BY- PRODUCTS, FRESH OR CHILLED
20	FOOD OR KINDRED PRODUCTS	2016	DRESSED POULTRY OR ED PRODUCTS OR SMALL OR RELATED PRODUCTS, FRESH FROZEN
201	MEAT, POULTRY OR SMALL GAME, FRESH, CHILLED OR FROZEN	20161	DRESSED POULTRY OR SMALL GAME, FRESH FROZEN
2011	MEAT, FRESH OR CHILLED EXC. SALTED SEE 20132	20168	POULTRY BY-PRODUCTS OR SMALL GAME BY-PRODUCTS, FRESH FROZEN
20111	CARCASSES (WHOLE OR PARTS), FABRICATED OR PRIMAL CUTS, OR BONELESS MEAT, FRESH OR CHILLED	2017	PROCESSED POULTRY OR SMALL GAME, OR EGGS
20119	MEAT, FRESH OR CHILLED, NEC EXC. SAUSAGE, FRESH SEE 20133	20171	CANNED POULTRY OR SMALL GAME
2012	MEAT FRESH-FROZEN	20172	EGGS, CANNED, DRIED, FROZEN, LIQUID, ED, DESICCATED OR OTHER WISE PROCESSED
20121	CARCASSES (WHOLE OR PARTS), FABRICATED OR PRIMAL CUTS, OR BONELESS MEAT, FRESH FROZEN	202	DAIRY PRODUCTS
20129	MEAT, FRESH FROZEN, NEC	2021	CREAMERY BUTTER
2013	MEAT PRODUCTS	20211	CREAMERY BUTTER
20131	LARD	2023	CONDENSED, EVAPORATED DRY MILK
20132	MEATS OR SAUSAGE, CURED, DRIED, PRESERVED, SALTED OR SMOKED	20231	DRY MILK PRODUCTS
20133	SAUSAGE, FRESH	20233	EVAPORATED OR CONDENSED MILK PRODUCTS
20134	CANNED MEAT	20234	ICE CREAM MIX OR ICE MIX
20139	MEAT PRODUCTS, NEC	2024	ICE CREAM OR RELATED FROZEN DESSERTS
2014	ANIMAL BY-PRODUCTS, INEDIBLE EXC. FATTY ACIDS 2899 OR FATTY ALCOHOLS SEE 2818	20241	ICE CREAM OR RELATED FROZEN DESSERTS
20141	HIDES, PELTS OR SKINS, NOT TANNED, CATTLE, HORSE, MULE, SHEEP OR SWINE	2025	CHEESE OR SPECIAL DAIRY PRODUCTS
20143	GREASE OR INEDIBLE OR OTHER INEDIBLE ANIMAL OIL MILL PRODUCTS OR FOODS	20251	CHEESE EXC. COTTAGE CHEESE SEE 20252
20144	ANIMAL REFUSE, TANKAGE, MEAT MEAL, OR DRIED OR RELATED ANIMAL BY-PRODUCTS	20258	CASEIN PRODUCTS
20149	ANIMAL BY-PRODUCTS, INEDIBLE, NEC	20259	SPECIAL DAIRY PRODUCTS BY- PRODUCTS, NEC
		2026	PROCESSED WHOLE MILK, SKIM MILK, CREAM OR FLUID PRODUCTS

20261	BULK FLUID MILK, SKIM MILK OR CREAM	20341	DEHYDRATED OR DRIED FRUITS
20262	PACKAGED (GLASS OR FLUID MILK, SKIM MILK OR CREAM	20342	DEHYDRATED OR DRIED TABLES, OR SOUP MIXES EXC. FIELD DRY RIPE TABLE FOOD SEEDS SEE 01341-01349
20264	BUTTERMILK, CHOCOLATE MILK OR OTHER FLAVORED MILK DRINKS	20343	DEHYDRATED OR DRIED POTATOES OR PRODUCTS EXC. POTATO CHIPS SEE 20992
203	CANNED OR PRESERVED FRUITS, VEGETABLES OR SEAFOOD	2035	PICKLED FRUITS OR BLES, SALAD DRESSINGS, SEASONINGS, OR VEGETABLE SAUCES EXC. CATSUP OR TOMATO SAUCES SEE 2033 SPICES SEE 2099
2031	CANNED OR CURED SEA	20352	PICKLES OR OTHER PICKLED PRODUCTS
20311	CANNED FISH OR OTHER FOOD, SEAFOOD CHOWDERS, SOUP OR STEWS OR LIVERS OR ROE EXC. DRIED, PICKLED, SALTED OR SEE 20314	20354	SALAD DRESSINGS, MAYON NAISE OR SALAD DRESSING TYPE SANDWICH SPREADS
20314	SMOKED, SALTED, PICKLED OR DRIED FISH	20359	SAUCES OR SEASONINGS, EXC. CATSUP OR TOMATO SAUCES SEE 20336 OR ES SEE 20997
2032	CANNED SPECIALTIES	2036	FRESH OR FROZEN (PACKAGED) FISH OR OTHER SEAFOOD
20321	CANNED BABY FOODS	20361	FROZEN PROCESSED (PACKAGED) FISH OR OTHER SEAFOOD
20322	CANNED SOUPS EXC. CANNED SEAFOOD SOUPS SEE 20311, FROZEN SOUPS SEE 20381, OR FROZEN SEAFOOD SOUPS SEE 20361	20362	FRESH PROCESSED (PACKAGED) FISH OR OTHER SEAFOOD
20323	CANNED BEAN SPECIALTIES, PORK AND BEANS OR BAKED BEANS	2037	FROZEN FRUITS, OR FRUIT JUICES
20329	CANNED SPECIALTIES, NEC	20371	FROZEN FRUITS
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	20372	FROZEN JUICES OR ADES
20331	CANNED FRUITS	20373	FROZEN VEGETABLES
20332	CANNED VEGETABLES	20379	FROZEN FRUITS OR VEGETABLES IN MIXED LOADS OR MIXED WITH FROZEN FRUIT JUICES
20333	CANNED HOMINY OR MUSH ROOMS	2038	FROZEN SPECIALTIES
20334	JUICE, FRUIT OR VEGE TABLE, OTHER THAN FROZEN EXC. CIDER SEE 20996	20381	FROZEN PREPARED FOODS OR SOUPS EXC. SEA FOODS SEE 20361
20336	CATSUP OR OTHER TOMATO SAUCES	2039	MIXED LOADS OF CANNED OR PRESERVED FRUITS, OR VEGETABLES, WITHOUT SEPARATE WEIGHTS
20338	JAMS, JELLIES OR PRE SERVES		
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		

20391	MIXED LOADS OF CANNED OR PRESERVED FRUITS, OR VEGETABLES, OF COMMODITIES IN THE GROUP EXCLUSIVELY, WITHOUT SEPARATE WEIGHTS	20442	RICE FLOUR, BRAN OR MEAL
204	GRAIN MILL PRODUCTS	20443	BREWERS RICE
2041	FLOUR OR OTHER GRAIN PRODUCTS EXC. RICE SEE 2044 OR PREPARED FLOUR MIXES SEE 2045	20449	MILLED RICE OR BY-PRODUCTS, NEC
20411	WHEAT FLOUR EXC. BLENDED OR PREPARED SEE 20451-20452	2045	BLENDED OR PREPARED EXC. MILLING FLOUR FROM GRAIN SEE 2041 ED, SELF-RISING)
20412	WHEAT BRAN, MIDDINGS SHORTS	20452	PREPARED FLOUR MIXES PANCAKE, CAKE, BISCUIT, PIE CRUST MIXES, ETC.
20413	CORN MEAL OR FLOUR EXC. ANIMAL OR POULTRY FEED SEE 20421-20423	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. SEE STCC 6001-AJ FOR FULL DESCRIPTION
20414	RYE FLOUR OR MEAL	20461	CORN SYRUP
20415	BUCKWHEAT FLOUR OR MEAL	20462	CORN STARCH
20416	OAT MEAL OR FLOUR	20463	CORN SUGAR
20418	GRAIN MILL BY-PRODUCTS EXC. WHEAT BRAN, MID DLINGS, RED DOG OR SEE 20412	20464	DEXTRINE, CORN, TAPIOCA OR OTHER
20419	FLOUR OR OTHER GRAIN PRODUCTS, NEC	20465	CORN OIL
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	20466	STARCH (POTATO, WHEAT, RICE, ETC.) EXC. CORN 20462
20421	PREPARED FEED, ANIMAL, FISH OR POULTRY, OTHER THAN DOG, CAT OR OTHER PET FOOD, NEC EXC. SEE 20423, OR CHOPPED, GROUND OR PULVERIZED STRAW OR RELATED see STCC 6001-AJ FOR FULL DESCRIPTION	20467	WET PROCESS CORN OR LAR MILL BYPRODUCTS
20423	CANNED FEED, ANIMAL, OR POULTRY, OTHER THAN DOG, CAT OR OTHER PET FOOD, NEC	20469	WET PROCESS CORN MILLING OR SIMILAR MILL NEC
2043	CEREAL PREPARATIONS	2047	DOG, CAT OR OTHER PET FOOD, NEC
20431	COOKED CEREALS, FLAKED, GRANULATED, POPPED, PUFFED, ROLLED, ROASTED OR SHREDDED	20471	DOG, CAT OR OTHER PET FOOD, NEC EXC. CANNED 20472
20432	CEREALS, UNCOOKED	20472	CANNED DOG, CAT OR OTHER PET FOOD, NEC
2044	MILLED RICE, FLOUR OR MEAL	205	BAKERY PRODUCTS
20441	RICE, CLEANED	2051	BREAD OR OTHER BAKERY PRODUCTS EXC. BISCUITS, CRACKERS, PRETZELS OR OTHER DRY BAKERY SEE 2052
		20511	BREAD OR OTHER BAKERY PRODUCTS EXC. BISCUITS, CRACKERS, PRETZELS OR OTHER DRY BAKERY SEE 20521-20529

2052	BISCUITS, CRACKERS OR PRETZELS	20821	BEER, ALE, PORTER, STOUT OR OTHER FERMENTED MALT LIQUORS, IN BARRELS, BOTTLES, CANS OR KEGS
20521	BISCUITS, CRACKERS OR PRETZELS	20823	MALT EXTRACTS OR BREWERS SPENT GRAINS
20529	DRY BAKERY PRODUCTS, NEC	2083	MALT
206	SUGAR, BEET OR CANE	20831	MALT
2061	SUGAR MILL PRODUCTS OR BY- PRODUCTS	20832	MALT FLOUR OR SPROUTS
20611	RAW CANE OR BEET SUGAR	20839	MALT PRODUCTS OR BY-PRODUCTS, NEC
20616	SUGAR MOLASSES EXC. BLACKSTRAP SEE 20617	2084	WINES, BRANDY OR BRANDY SPIRITS
20617	BLACKSTRAP MOLASSES	20841	WINE, BRANDY OR BRANDY SPIRITS OR FRUIT SPIRITS
20618	BAGASSE	2085	DISTILLED, RECTIFIED OR BLENDED LIQUORS EXC. BRANDY OR BRANDY SPIRITS SEE 2084
20619	SUGAR MILL PRODUCTS OR BY- PRODUCTS, NEC	20851	DISTILLED, RECTIFIED OR BLENDED LIQUORS EXC. BRANDY, BRANDY SPIRITS FRUIT SPIRITS SEE 20841
2062	SUGAR, REFINED, CANE BEET	20859	BY-PRODUCTS OF LIQUOR DISTILLING OR MINERAL WATERS, BOTTLED, CANNED OR IN BULK EXC. DRINKING PLAIN OR SPRING WATERS SEE 1492
20621	SUGAR, GRANULATED OR POWDERED, SUGAR CUBES OR TABLETS	20861	SOFT DRINKS OR MINERAL WATERS, BOTTLED, CANNED OR IN BULK EXC. DRINKING PLAIN OR SPRING WATERS SEE 14921
20622	SUGAR, LIQUID OR SYRUP	2087	MISCELLANEOUS FLAVORING EXTRACTS, SYRUPS OR COMPOUNDS EXC. CHOCOLATE SYRUPS SEE 2071
20625	SUGAR REFINING BY-PRODUCTS	20871	MISCELLANEOUS FLAVORING EXTRACTS, SYRUPS OR COMPOUNDS EXC. CHOCOLATE SYRUPS SEE 20713
20626	MOLASSES BEET PULP	209	MISCELLANEOUS FOOD RATIONS OR KINDRED PROD UCTS
20629	SUGAR, REFINED, CANE OR BEET, NEC	2091	COTTONSEED OIL OR DUCTS EXC. EDIBLE OILS SEE 2096 OR FATTY ACIDS SEE 2899
207	CONFECTIONERY OR RELATED PRODUCTS	20911	COTTONSEED OIL, CRUDE OR REFINED EXC. EDIBLE ING OILS SEE 20961
2071	CANDY OR OTHER CONFECTIONERY PRODUCTS		
20711	CANDY OR CANDY BARS, OR PACKAGED		
20712	NUTS, COATED, COOKED, ROASTED OR SALTED		
20713	CHOCOLATE OR COCOA PRODUCTS OR BYPRODUCTS		
20714	CHEWING GUM		
20719	CONFECTIONERY OR RELATED PRODUCTS, NEC		
208	BEVERAGES OR FLAVORING EXTRACTS		
2082	MALT LIQUORS		

20914	COTTONSEED CAKE OR MEAL OR BY-PRODUCTS EXC. TON LINTERS OR REGINS SEE 20915 OR FATTY SEE 28994	2096	MARGARINE, SHORTENING OR TABLE OILS OR OTHER EDIBLE FATS OR OILS, NEC EXC. CORN OIL SEE 2046
20915	COTTON LINTERS OR REGINS	20961	SHORTENING OR COOKING OR SALAD OILS EXC. CORN OIL SEE 20465
2092	SOYBEAN OIL OR BY-PRODUCTS EXC. EDIBLE COOKING OILS SEE 2096 OR FATTY ACIDS SEE 2899	20962	MARGARINE
20921	SOYBEAN OIL, CRUDE OR REFINED EXC. EDIBLE ING OILS SEE 20961	2097	ICE, NATURAL OR MANUFACTURED
20923	SOYBEAN CAKE, FLOUR, GRITS, MEAL OR OTHER BY-PRODUCTS EXC. FATTY ACIDS SEE 28994	20971	ICE, NATURAL OR MANUFACTURED
2093	NUT OR VEGETABLE OILS OR BY-PRODUCTS EXC. CORN 2046, COTTONSEED SEE 2091, SOYBEAN SEE 2092, EDIBLE COOKING OILS SEE 2096, OILS FOR MEDICINAL USE SEE 2831 OR FATTY see STCC 6001-AJ FOR FULL DESCRIPTION	2098	MACARONI, SPAGHETTI, VERMICELLI OR NOODLES OR PRODUCTS THEREOF, DRY EXC. CANNED SEE 2032
20931	LINSEED OIL, CRUDE OR REFINED EXC. EDIBLE ING OILS SEE 20961	20981	MACARONI, SPAGHETTI, VERMICELLI OR NOODLES OR PRODUCTS THEREOF, DRY EXC. CANNED SEE 20329
20933	NUT OR VEGETABLE OILS EXC. CORN SEE 20465, COTTONSEED SEE 20911, SOYBEAN SEE 20921, LINSEED SEE 20931, EDIBLE COOKING OILS SEE 20961, OILS FOR MEDICINAL PURPOSES SEE 28311. SEE STCC 6001-AJ FOR FULL DESCRIPTION	2099	MISCELLANEOUS FOOD RATIONS, NEC
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	20991	DESSERTS (READY TO MIX)
2094	MARINE FATS OR OILS EXC. OILS FOR MEDICINAL PURPOSES SEE 2831, FATTY ACIDS SEE 2899 OR FATTY ALCOHOLS SEE 2818	20992	CHIPS (POTATO, CORN, ETC.)
20941	MARINE OIL MILL PRODUCTS	20993	SWEETENING SYRUPS OR MOLASSES
20942	MARINE OIL MILL BY-PRODUCTS VIZ. MEAL, SCRAP OR TANKAGE	20994	BAKING POWDER OR YEAST
2095	ROASTED COFFEE OR COFFEE	20995	MIXED LOADS OF FOOD OR KINDRED PRODUCTS, SEPARATE WEIGHTS, CONSISTING OF COMMODITIES NOT FOUND EXCLUSIVELY IN THE 203 GROUP
20951	ROASTED COFFEE OR COFFEE	20996	CIDER OR VINEGAR
		20997	SPICES
		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	2222	SILK-WOVEN FABRICS, IN- CLUDING FINISHED EXC. CARPETS, MATS OR RUGS 2271 OR 2272, OR TIRE CORD OR FABRICS SEE 22961
2131	CHEWING OR SMOKING TOBACCO OR SNUFF		
21311	CHEWING TOBACCO	22221	SILK-WOVEN FABRICS, IN- CLUDING FINISHED EXC. CARPETS, MATS OR RUGS 22711 OR 22721, OR TIRE CORD OR FABRICS SEE 22961
21312	SMOKING TOBACCO		
21313	SNUFF		
214	STEMMED OR REDRIED TOBACCO	223	WOOL BROAD-WOVEN FABRICS
2141	STEMMED OR REDRIED TOBACCO	2231	WOOL BROAD-WOVEN INCLUDING DYED OR FINISHED EXC. CARPETS, MATS OR RUGS SEE 2271 OR 2272
21411	TOBACCO, STEMMED OR REDRIED		
21419	TOBACCO BY-PRODUCTS, LEAF	22311	WOOL BROAD-WOVEN INCLUDING DYED OR FINISHED EXC. CARPETS, MATS OR RUGS SEE 22711 OR 22721, OR BLANKETS SEE 22313
22	TEXTILE MILL PRODUCTS	22313	WOOL OR CHIEFLY WOOL BLANKETS
221	COTTON BROAD-WOVEN FABRICS	224	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	2241	NARROW FABRICS, COTTON, SILK OR WOOL, OR GLASS OTHER MAN- MADE FIBRES
22111	COTTON DUCK OR ALLIED FABRICS	22411	NARROW FABRICS, COTTON, SILK OR WOOL, OR GLASS OTHER MAN- MADE FIBRES
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 ORRUGS, 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 ORMATS, TEXTILE FIBRE
		22721	TUFTED CARPETS, RUGS OR MATS, TEXTILE FIBRE

2279	CARPETS, MATS OR RUGS, NEC, ALL MATERIALS EXC. CORK SEE 2494, HARD SURFACE FLOOR COVERINGS SEE 3992 OR RUBBER SEE 3061	2294	TEXTILE WASTE, PROCESSED OR RECOVERED FIBRES OR FLOCK EXC. PACKING OR WIPING CLOTHS RAGS SEE 2299
22799	CARPETS, MATS OR RUGS, NEC, ALL MATERIALS EXC. ORK SEE 24941, HARD SURFACE FLOOR COVERINGS SEE 39921 OR RUBBER SEE	22941	TEXTILE WASTE, PROCESSED OR RECOVERED FIBRES OR FLOCK EXC. PACKING OR CLOTHS OR RAGS SEE 22994
228	THREAD OR YARN	2295	ARTIFICIAL LEATHER, OILCLOTH OR OTHER COATED OR IMPREGNATED FABRICS, INCLUDING FINISHED, SUCH AS LAMINATED, METALIZED, VARNISHED, WATERPROOFED, WAXED, ETC. EXC. RUBBER-see STCCAA FOR FULL DESCRIPTION
2281	YARN	22951	ARTIFICIAL LEATHER, OILCLOTH OR OTHER COATED OR IMPREGNATED FABRICS, INCLUDING FINISHED, SUCH AS LAMINATED, METALIZED, VARNISHED, WATERPROOFED, WAXED, ETC. EXC. RUBBERIZED SEE 30619. SEE STCC 6001-AJ FOR FULL DESCRIPTION
22811	COTTON YARN	2296	CORD OR FABRICS, TIRE, FUEL CELL, INDUSTRIAL BELTING OR FOR SIMILAR USES
22813	WOOL THREAD OR YARN	22961	CORD OR FABRICS, TIRE, FUEL CELL, INDUSTRIAL BELTING OR FOR SIMILAR USES
22819	YARN, NEC EXC. HEMP, JUTE, LINEN OR RAMIE	2297	WOOL OR MOHAIR, SCOURED, COMBED OR CARBONIZED, OR WOOL OR MOHAIR GREASE, NOILS, NUBS, TOPS OR SLUGS
2284	THREAD EXC. HEMP, JUTE, LINEN OR RAMIE SEE 2299R WOOL SEE 2281	22971	WOOL OR MOHAIR, CARBONIZED OR SCOURED
22841	THREAD EXC. HEMP, JUTE, LINEN OR RAMIE SEE 22999 OR WOOL SEE 22813	22972	TOPS, ALL FIBRES, SED, COMBED OR CONVERTED
229	MISCELLANEOUS TEXTILEGOODS	22973	TEXTILE FIBRES, LAPS, ILS, NUBS, ROVING, OR SLUBS, PREPARED FOR SPINNING, COMBED OR CONVERTED
2291	FELT GOODS EXC. FELT SEE 2351 OR 2352, OR WOVEN WOOL FELTS OR WOOL HAIRCLOTH SEE 2231	22974	WOOL OR MOHAIR GREASE
22911	FELT GOODS EXC. FELT SEE 23511 OR 23521, OR WOVEN WOOL FELTS OR WOOLHAIRCLOTH SEE 22311	2298	CORDAGE OR TWINE
2292	LACE GOODS, INCLUDING DYED OR FINISHED EXC. EMBROIDERIES SEE 2395	22981	CORDAGE OR TWINE
22921	LACE GOODS, INCLUDING DYED OR FINISHED EXC. EMBROIDERIES SEE 23951	2299	TEXTILE GOODS, NEC
2293	PADDINGS, UPHOLSTERY FILLINGS, BATTING OR DING EXC. EXPANDED PLASTICS SEE 3071, FOAM OR SPONGE RUBBER SEE 3061 WOOD EXCELSIOR PADS OR WRAPPERS SEE 2429	22991	BONDED FIBRE FABRICS FELTS, WOVEN SEE 22311 UNWOVEN SEE 22911
22931	PADDINGS, UPHOLSTERY FILLINGS, BATTING OR DING EXC. EXPANDED PLASTICS SEE 30716, FOAM OR SPONGE RUBBER SEE 30613 OR WOOD EXCELSIOR PADS WRAPPERS SEE 24294		

22992	JUTE GOODS EXC. BAGS SEE 23931	2371	LINED CLOTHING SEE 238FUR GOODS EXC. SHEEP LINED CLOTHING SEE 2386
22994	PACKING OR WIPING CLOTHS OR RAGS (PROCESSED TEXTILE WASTES)	23711	FUR GOODS EXC. SHEEP LINED CLOTHING SEE 23861
22995	VEGETABLE FIBRES EXC. COTTON SEE 20915 OR 22999	238	MISCELLANEOUS APPAREL OR ACCESSORIES
22999	TEXTILE GOODS, NEC	2381	GLOVES, MITTENS OR LININGS, DRESS OR WORK EXC. ASBESTOS SEE 3292, ALLLEATHER SEE 3151,SEE 3071, RUBBER SEE OR FUR SEE 2371
23	APPAREL OR OTHER TEXTILE PRODUCTS OR KNIT APPAREL	23811	DRESS GLOVES, MITTENS OR LININGS EXC. ALL LEATHERSEE 31511, PLASTIC SEE30719 OR FUR SEE 23711
231	MENS, YOUTHS OR BOYS CLOTHING OR UNIFORMS LEATHER OR SHEEP LINED, OR RAINCOATS SEE 238	23812	WORK GLOVES OR MITTENS EXC. ASBESTOS SEE 32929, ALL LEATHER SEE 31511,PLASTIC SEE 30719 OR RUBBER SEE 30619
2311	MENS, YOUTHS OR BOYS CLOTHING OR UNIFORMS LEATHER OR SHEEP LINED SEE 2386 OR RAINCOATS 2385	2384	ROBES OR DRESSING GOWNS EXC. CHILDRENS OR INFANTS SEE 2331
23111	MENS, YOUTHS OR BOYS CLOTHING OR UNIFORMS LEATHER OR SHEEP LINED	23841	ROBES OR DRESSING GOWNS EXC. CHILDRENS OR SEE 23311
233	SEE 23861 OR RAINCOATS SEE 23851 WOMENS, MISSES, OR INFANTS CLOTHING EXC. FUR SEE 237, RAINCOATS SEE 238 OR SURGICAL SEE 384	2385	RAINCOATS OR OTHER WATERPROOF OUTER GARMENTS EXC. OILED FABRIC SEE 2311 OR VULCANIZED SEE 3061
2331	WOMENS, MISSES, OR INFANTS CLOTHING EXC. FUR SEE 2371, RAINCOATS SEE 2385 OR SURGICAL SEE 3842	23851	RAINCOATS OR OTHER PROOF OUTER GARMENTS OILED FABRIC SEE 23111 VULCANIZED RUBBER SEE 30619
23311	WOMENS, MISSES, OR INFANTS CLOTHING EXC. FUR SEE 23711, RAINCOATS SEE 23851 OR SURGICAL 38421	2386	LEATHER OR SHEEP LINED CLOTHING EXC. LEATHER GLOVES OR MITTENS SEE 3151, FUR GARMENTS SEE 2371
235	CAPS, HATS OR MILLINERY OR HAT BODIES EXC. FUR SEE 237	23861	LEATHER OR SHEEP LINED CLOTHING EXC. LEATHER GLOVES OR MITTENS SEE 31511, FUR GARMENTS SEE 23711
2351	MILLINERY EXC. BRAIDS OR TRIMMINGS SEE 2396 OR SEE 2371	2387	APPAREL BELTS
23511	MILLINERY EXC. BRAIDS OR TRIMMINGS SEE 23961 OR FUR SEE 23711	23871	APPAREL BELTS
2352	CAPS OR HATS OR HAT BODIES EXC. FUR SEE 2371 OR MILLINERY SEE 2351	2389	APPAREL, NEC
23521	CAPS OR HATS OR HAT BODIES EXC. FUR SEE 23711 MILLINERY SEE 23511	23891	APPAREL, NEC
237	FUR GOODS EXC. SHEEP	239	MISCELLANEOUS FABRICATED TEXTILE PRODUCTS
		2391	CURTAINS OR DRAPERIES EXC. LACE CURTAINS

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		
2392	TEXTILE HOUSEFURNISHINGS EXC. CURTAINS, DRAPERIES OR TAPESTRIES SEE 2391, EMBROIDERED SEE 2395 OR LACE SEE 2292	2396	APPAREL FINDINGS, TEXTILE, OR RELATED PRODUCTS, OR AUTOMOTIVE MINGS
23921	BEDSPREADS OR BED SETS EXC. EMBROIDERED SEE 23951 OR LACE SEE 22921	23961	APPAREL FINDINGS, TEXTILE, OR RELATED PRODUCTS, OR AUTOMOTIVE MINGS
23922	SHEETS OR PILLOWCASES EXC. EMBROIDERED SEE 23951	2399	FABRICATED TEXTILE PRODUCTS, NEC
23923	TOWELS OR WASHCLOTHS EMBROIDERED SEE 23951	23991	AUTOMOBILE SEAT COVERS
23924	TABLECLOTHS OR NAPKINS RELATED ARTICLES ROIDERED SEE 23951 OR LACE SEE 22921	23993	SLEEPING BAGS
23925	PILLOWS	23994	PARACHUTES
23926	MOPS OR DUSTERS	23999	FABRICATED TEXTILE PRODUCTS, NEC
23927	SLIP COVERS EXC. EMBROIDERED SEE 239511	24	LUMBER OR WOOD PRODUCTS EXC. FURNITURE SEE 25
23928	COMFORTERS OR QUILTS EMBROIDERED SEE 23951	241	PRIMARY FOREST OR WOOD RAW MATERIALS VIZ. LOGS, PILING, POSTS, PULPWOOD, WOOD CHIPS, EXC. FROM SAWMILLS SEE 242, FROM PLYWOOD OR VENEER MILLS SEE 243, see STCC 6001-AJ FOR FULL DESCRIPTION
23929	TEXTILE NEC EXC. EMBROIDERED SEE 23951 OR LACE SEE 22921	2411	PRIMARY FOREST OR WOOD RAW MATERIALS VIZ. LOGS, PILING, POSTS, PULPWOOD, WOOD CHIPS, ETC.
2393	TEXTILE BAGS EXC. OR LAUNDRY SEE 2392 OR PLASTIC SEE 2643	24111	SAWLOGS
23931	TEXTILE BAGS EXC. OR LAUNDRY SEE 23929 OR PLASTIC SEE 26431	24112	HEWN RAILROAD OR MINE TIES
2394	CANVAS PRODUCTS EXC. SEE 2393	24113	SHORT LOGS OR WOOD BOLTS
23941	TENTS	24114	PULPWOOD LOGS
23942	AWNINGS OR SHADES	24115	PULPWOOD OR OTHER WOOD CHIPS
23943	TARPAULINS	24116	WOOD POSTS, POLES OR PILING
23944	SAILS	24117	FUELWOOD, HOGFUEL OR CORDWOOD
23949	CANVAS PRODUCTS, NEC BAGS SEE 23931	24118	WOOD MINE PROPS OR MINE TIMBERS
2395	TEXTILE PRODUCTS, PLEATED, QUILTED, DECORATIVE OR NOVELTY STITCHED, OR RUFFLED OR TUCKED		

24119	PRIMARY FOREST OR WOOD RAW MATERIALS, NEC EXC. FROM SAWMILLS SEE 24211-24299, FROM OR VENEER MILLS SEE 24321, FROM PULP MILLS SEE 26111 OR see STCC 6001-AJ FOR FULL DESCRIPTION	2431	MILLWORK OR CABINETWORK, TO BE BUILT IN EXC. COVERED SEE 3442 OR PREFABRICATED STRUCTURAL WOOD PRODUCTS SEE 2433 2439
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	24311	WINDOW UNITS, WOOD
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	24312	WINDOW SASH OR COMBINATION SCREEN AND STORM SASH, WOOD EXC. WINDOW SCREENS, WOOD FRAMED
24211	LUMBER, ROUGH OR SOFTWOOD CUT STOCK OR FLOORING	24313	WINDOW OR DOOR FRAMES OR JAMS, WOOD
24212	SAWED TIES (RAILROAD, MINE, ETC.)	24314	DOORS OR SHUTTERS OR UNITS, WOOD
24214	HARDWOOD DIMENSION STOCK OR FURNITURE PARTS OR VEHICLE STOCK	24316	WOOD MOULDINGS
24215	HARDWOOD FLOORING	24319	MILLWORK, NEC, OR CABINETWORK, TO BE BUILT IN EXC. METAL COVERED SEE 34421-34425 OR ATED STRUCTURAL WOOD PRODUCTS SEE 24332-24391
24219	LUMBER OR DIMENSION STOCK, NEC	2432	PLYWOOD OR VENEER OR BUILT-UP WOOD EXC. PLY WOOD OR VENEER SEE 2441 OR WOOD BOARD OR HARDBOARD SEE 2499
2429	MISCELLANEOUS SAWMILL OR PLANING MILL PRODUCTS, VIZ. SHINGLES, COOPERAGE STOCK, ETC.	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
24291	SHINGLES	2433	PREFABRICATED WOODEN BUILDINGS OR PANELS OR SECTIONS
24292	COOPERAGE STOCK	24332	PREFABRICATED BUILDINGS, WOOD
24293	SHAVINGS OR SAWDUST	24333	READY-CUT WOOD BUILDINGS OR PANELS OR SECTIONS PREFABRICATED BUILDINGS
24294	EXCELSIOR, BALED OR	2434	KITCHEN CABINETS, WOOD
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 see STCC 6001-AJ FOR FULL DESCRIPTION	24341	KITCHEN CABINETS, WOOD
243	MILLWORK OR WOOD PRODUCTS OR PLYWOOD OR VENEER	2439	STRUCTURAL WOOD NEC
		24391	PREFABRICATED STRUCTURAL MEMBERS OR WOOD
		244	WOODEN CONTAINERS
		2441	WOODEN CONTAINERS OR BOX SHOOKS

24411	BOXES, CASES, CRATES OR CARRIERS EXC. ANIMAL OR POULTRY	2494	CORK PRODUCTS
24412	CARRIERS, COOPS OR CRATES, ANIMAL OR	24941	CORK PRODUCTS
24413	FRUIT OR VEGETABLE BASKETS OR HAMPERS OR TILL BOXES OR BASKETS	2495	HAND TOOL HANDLES
24414	BASKETS OR HAMPERS EXC. AMBULANCE OR UNDERTAKER SEE 39941, BAIT OR FISH SEE 39491, FRUIT OR TABLE SEE 24413 OR TOY SEE 39411	24951	HAND TOOL HANDLES
24415	COOPERAGE	2496	SCAFFOLDING EQUIPMENT OR LADDERS
24416	BOX SHOOKS	24961	SCAFFOLDING EQUIPMENT
24419	WOODEN CONTAINERS, NEC, OR CONTAINER NEC	24962	LADDERS OR LADDER PARTS
249	MISCELLANEOUS WOOD PRODUCTS EXC. CONTAINERS SEE 244	2497	WOODEN WARE, NOVELTIES FLATWARE
2491	TREATED WOOD PRODUCTS, CREOSOTED, OR TREATED WITH OTHER PRESERVATIVES	24971	WOODEN WARE
24911	WOOD PILING, POSTS, OR TIMBERS, ETC., CREOSOTED, OR TREATED WITH OTHER PRESERVATIVES	24972	WOODEN NOVELTIES OR WARE
24912	TIES, MINE, RAILROAD, ETC., CREOSOTED, OR TREATED WITH OTHER PRESERVATIVES	2498	WOOD PRODUCTS, NEC EXC. CONTAINERS SEE 2441
24913	LUMBER, CREOSOTED OR TREATED WITH OTHER PRESERVATIVES	24981	POLES, RODS OR STAKES, FINISHED
24914	PLYWOOD, VENEER OR BUILT-UP WOOD, CREOSOTED OR TREATED WITH OTHER PRESERVATIVES	24982	BILLBOARDS OR SIGN OR RELATED ARTICLES
24919	TREATED WOOD PRODUCTS, NEC, CREOSOTED, OR TREATED WITH OTHER PRESERVATIVES	24983	SEATS, BATHTUB OR LAUNDRY TUB COVERS, RADIATOR COVERS OR GUARDS, SINK DRAIN OR RELATED ARTICLES
2492	RATTAN, BAMBOO OR WARE EXC. FURNITURE SEE 25, BASKETS OR HAMPERS SEE 2441	24985	BOTTLE STOPPERS, ICE CREAM STICKS, PAINT PADDLES OR PENCIL SLATS
24921	RATTAN, BAMBOO OR WARE EXC. FURNITURE SEE 25, BASKETS OR HAMPERS SEE 24413 OR 24414	24987	QUILTING FRAMES OR CURTAIN STRETCHERS
2493	LASTS OR RELATED PRODUCTS, ALL MATERIALS	24988	BOARDS OR TABLES, IRONING
24931	LASTS OR RELATED PRODUCTS, ALL MATERIALS	2499	WOOD PRODUCTS, NEC EXC. CONTAINERS SEE 2441
		24992	SKIDS, PALLETS OR PLATFORMS EXC. METAL SEE 35373
		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	25161	BEDS, DRESSERS, CHESTS DRAWERS OR VANITIES, HOUSEHOLD OR OFFICE EXC. HOSPITAL BEDS SEE 25991
25	FURNITURE OR FIXTURES	2517	CABINETS OR CASES, HOLD OR OFFICE EXC. CABINETS SEE 2514, PLAY CASES SEE 2541 OR 2542 OR WOOD KITCHEN CABINETS SEE 2434
251	HOUSEHOLD OR OFFICE FURNITURE EXC. CONCRETE SEE 327, STONE SEE 328 OR TERRA COTTA SEE 326	25171	RADIO, PHONOGRAPH OR TELEVISION CABINETS
2511	BENCHES, CHAIRS, ROCKERS OR STOOLS, HOUSEHOLD OR OFFICE EXC. CONCRETE SEE 3271, STONE SEE 3281 OR TERRA COTTA SEE 3269	25173	FILING CABINETS OR CASES
25111	BENCHES, CHAIRS, ROCKERS OR STOOLS, HOUSEHOLD OR OFFICE EXC. CONCRETE SEE 32719, STONE SEE 32819 TERRA COTTA SEE 32699	25174	KITCHEN CABINETS EXC. WOOD SEE 24341
2512	TABLES OR DESKS, HOUSEHOLD OR OFFICE EXC. CONCRETE SEE 3271, STONE 3281 OR TERRA COTTA SEE 3269	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
25121	TABLES OR DESKS, HOUSEHOLD OR OFFICE EXC. CONCRETE SEE 32719, STONE SEE 32819 OR TERRA COTTA SEE 32699	2518	INFANTS OR CHILDRENS FURNITURE
2513	DAVENPORTS, SOFAS, ES, LOVE SEATS OR SETTEES, HOUSEHOLD OR OFFICE	25181	INFANTS OR CHILDRENS FURNITURE
25131	DAVENPORTS, SOFAS, ES, LOVE SEATS OR SETTEES, HOUSEHOLD OR	2519	HOUSEHOLD OR OFFICE FURNITURE, NEC EXC. SEE 3271, STONE SEE 3281 OR TERRA COTTA SEE 3269
2514	BUFFETS, SERVERS OR CORNER CLOSETS, HOLD	25199	HOUSEHOLD OR OFFICE FURNITURE, NEC EXC. SEE 32719, STONE SEE 32819 OR TERRA COTTA SEE 32699
25141	BUFFETS, SERVERS, CHINA OR CORNER CLOSETS, HOLD	253	PUBLIC BUILDING OR ED FURNITURE EXC. CONCRETE SEE 327, STONE SEE 328 OR TERRA COTTA SEE 326
2515	BEDSPRINGS OR FOR ALL PURPOSES	2531	PUBLIC BUILDING OR ED FURNITURE EXC. CONCRETE SEE 3271, STONE 3281 OR TERRA COTTA SEE 3269
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	25311	SCHOOL FURNITURE
25153	CHAIR OR SOFA BEDS, OR STUDIO COUCHES, OR CONVERTIBLE SOFAS	25312	SEATS FOR PUBLIC CONVEYANCES VIZ. AIRCRAFT, AUTOMOBILE, RAILROAD TRUCK OR SCHOOL BUS
2516	BEDS, DRESSERS, CHESTS DRAWERS OR VANITIES, HOUSEHOLD OR OFFICE EXC. HOSPITAL BEDS SEE 2599	25314	SEATS, AUDITORIUM, BLEACHER, CIRCUS, STADIUM OR THEATRE

25319	PUBLIC BUILDING FURNITURE, NEC EXC. CONCRETE SEE 32719, STONE SEE 32819 OR TERRA COTTA SEE 32699	25999	FURNITURE OR FIXTURES, NEC, OR RESTAURANT FURNITURE EXC. TABLE ARM CHAIRS SEE 25311, DENTAL, HOSPITAL, OPERATING ROOM OR OPTICIANS SEE 38412, HOSPITAL BEDS SEE 25991, CONCRETE SEE 32719, STONE SEE 32819 or TERRA COTTA SEE 32699. SEE STCC 6001-AJ FOR FULL DESCRIPTION
254	LOCKERS, PARTITIONS OR SHELVING OR OFFICE OR RE FIXTURES	26	PULP, PAPER OR ALLIED PRODUCTS
2541	WOOD LOCKERS, PARTITIONS OR SHELVING OR OFFICE OR STORE FIXTURES EXC. REFRIGERATED CABINETS, CASES OR LOCKERS SEE 3585	261	PULP OR PULP MILL PRODUCTS
25411	WOOD LOCKERS, PARTITIONS OR SHELVING OR OFFICE OR STORE FIXTURES EXC. REFRIGERATED CABINETS, CASES OR LOCKERS SEE 35853	2611	PULP OR PULP MILL PRODUCTS
2542	METAL LOCKERS, OR SHELVING OR OFFICE OR STORE FIXTURES EXC. REFRIGERATED CABINETS, CASES OR LOCKERS SEE 3585, OR SAFES OR VAULTS SEE 3492	26111	PULP
25421	METAL LOCKERS, OR SHELVING OR OFFICE OR STORE FIXTURES EXC. REFRIGERATED CABINETS, CASES OR LOCKERS SEE 35853, OR SAFES OR SEE 34921	26112	PULP MILL BY-PRODUCTS
259	MISCELLANEOUS FURNITURE OR FIXTURES EXC. SEE 327, STONE SEE 328 TERRA COTTA SEE 326	262	PAPER EXC. BUILDING SEE 266
2591	VENETIAN BLINDS, SHADES, AWNINGS, CURTAIN RODS OR ACCESSORIES EXC. CANVAS AWNINGS OR SHADES SEE 2394	2621	PAPER EXC. BUILDING SEE 2661
25911	VENETIAN BLINDS, SHADES, AWNINGS, CURTAIN RODS OR ACCESSORIES EXC. CANVAS AWNINGS OR SHADES SEE 23942	26211	NEWSPRINT
2599	FURNITURE OR FIXTURES, N.E.C. EXC. CONCRETE SEE 3271, STONE SEE 3281 OR TERRA COTTA SEE 3269	26212	GROUND WOOD PAPER, UN-COATED
25991	HOSPITAL BEDS	26213	PRINTING PAPER, COATED UNCOATED, COATED GROUND-WOOD PAPER, GROUNDWOOD PAPER CONTAINING LESS THAN 60 PERCENT GROUND-WOOD, COATED OR WRITING PAPER
		26214	WRAPPING PAPER, OR COARSE PAPER
		26217	SPECIAL INDUSTRIAL PAPER OR PAPER CAR LINERS
		26218	SANITARY TISSUE STOCK
		26219	PAPER, NEC EXC. BUILDING PAPER SEE 26611-26619
		263	FIBREBOARD, PAPERBOARD PULPBOARD EXC. BUILDING
		2631	INSULATING BOARD SEE 266 FIBREBOARD, PAPERBOARD PULPBOARD EXC. BUILDING INSULATING BOARD SEE
		26311	FIBREBOARD, PAPERBOARD PULPBOARD EXC. BUILDING INSULATING BOARD SEE 26611-26619
		264	CONVERTED PAPER OR BOARD PRODUCTS EXC. CONTAINERS OR BOXES SEE 265

2642	ENVELOPES EXC. SEE 2649	265	CONTAINERS OR BOXES, PAPERBOARD, FIBREBOARD PULPBOARD
26421	ENVELOPES EXC. SEE 26491		
2643	PAPER BAGS	2651	CONTAINERS OR BOXES, PAPERBOARD, FIBREBOARD PULPBOARD EXC. BUTTER,
26431	PAPER BAGS		
2644	WALLPAPER	26511	CONTAINERS OR BOXES, PAPERBOARD, FIBREBOARD PULPBOARD EXC. BUTTER, FROZEN FOOD, ICE CREAM MARGARINE BOXES OR CONTAINERS SEE 26542-26549
26441	WALLPAPER		
2645	DIE-CUT PAPER OR PAPERBOARD PRODUCTS OR CARDBOARD	26514	BASKETS, HAMPERS OR TILL BOXES, PAPERBOARD OR FIBREBOARD
26451	OFFICE SUPPLIES	26515	PALLETS, SKIDS OR PLATFORMS, PAPERBOARD
26452	COATED	2654	SANITARY FOOD CONTAINERS
26453	PAPERBOARD CLOSURES, FOR BOTTLES, CANS OR JARS VIZ. CAPS, COVERS, TOPS, ETC.	26542	BOTTLES OR CARTONS OR OTHER LIQUID-TIGHT FOOD CONTAINERS
26459	DIE-CUT PAPER PRODUCTS, NEC, OR PAPERBOARD PRODUCTS OR CARDBOARD, NEC	26543	PAPER, FIBREBOARD, BOARD OR PULPBOARD CANS, COVERS, CUPS, PAILS, STRAWS OR TUBS
2646	PRESSED OR MOLDED PULP GOODS	26545	PAPER PLATES, DISHES, FORKS, SPOONS OR RELATED ARTICLES
26461	BITUMINOUS FIBRE PIPE, SEWER OR DRAINAGE OR CONDUIT OR FITTINGS	26549	SANITARY FOOD NEC
26462	EGG CARTONS, CASES OR RELATED ARTICLES	2655	FIBRE CANS, DRUMS OR TUBES OR SIMILAR EXC. SANITARY FOOD CONTAINERS SEE 2654
26469	PRESSED OR MOLDED PULP GOODS, N. E. C.	26551	FIBRE CANS, DRUMS OR TUBES OR SIMILAR EXC. SANITARY FOOD CONTAINERS SEE 26542-26549
2647	SANITARY PAPER PRODUCTS	266	BUILDING PAPER OR BUILDING BOARD
26471	SANITARY TISSUES OR HEALTH PRODUCTS	2661	BUILDING PAPER OR BUILDING BOARD
26472	SANITARY OR COTTON SANITARY NAPKINS OR TAMPONS	26611	INSULATING BOARD
2649	MISCELLANEOUS CONVERTED PAPER OR PAPERBOARD PRODUCTS	26612	CONSTRUCTION PAPER
26491	STATIONERY OR STATIONERY ENVELOPES, TABLETS OR RELATED ARTICLES	26613	WALLBOARD EXC. HARDBOARD SEE 24993
26492	WRAPPING PRODUCTS (GIFT WRAP, ETC.)	26614	INSULATING MATERIAL EXC. INSULATING BOARD SEE
26495	BUSINESS MACHINE	26615	26611 CONSTRUCTION PANELS, PARTITIONS, SIDING OR FORMS
26497	PACKING CUSHIONS, LINERS OR RELATED ARTICLES	2661927	BUILDING PAPER OR BUILDING BOARD, NEC PRINTED MATTER
26499	CONVERTED PAPER NEC, OR PAPERBOARD PRODUCTS, NEC		

271	NEWSPAPERS	2791	SERVICE INDUSTRIES FOR PRINTING TRADES
2711	NEWSPAPERS		
27111	NEWSPAPERS	27911	SERVICE INDUSTRIES FOR PRINTING TRADES, INCLUDING ELECTROTYPE, ENGRAVERS, LITHOGRAPHIC OR STEREOTYPE PLATES, SHELLS, BLOCKS OR BARS
272	PERIODICALS		
2721	PERIODICALS		
27211	PERIODICALS		
273	BOOKS	28	CHEMICALS OR ALLIED PRODUCTS
2731	BOOKS	281	INDUSTRIAL INORGANIC OR ORGANIC CHEMICALS EXC. PESTICIDES SEE 287, DRUGS, MEDICINAL CHEMICALS OR MEDICINES SEE 283, NAVAL STORES OR DISTILLATION PRODUCTS see STCC 6001-AJ FOR FULL DESCRIPTION
27311	BOOKS		
274	MISCELLANEOUS PRINTED		
2741	MATTER MISCELLANEOUS PRINTED		
27411	MATTER CATALOGUES, DIRECTORIES, BUSINESS SERVICES OR ADVERTISING MATERIALS	2812	POTASSIUM OR SODIUM COMPOUNDS OR OTHER BASIC INORGANIC COMPOUNDS OR CHLORINE
27415	CARDS OR TICKETS EXC. GREETING CARDS SEE 27711	28121	INORGANIC BLEACHING COMPOUNDS EXC. CHLORINE SEE 28128
27417	LABELS, SEALS, TAGS OR WRAPPERS EXC. GOVERNMENT STAMP SEE 27419 OR ING SEE 27711	28122	SODIUM ALKALIES
27419	PRINTED MATTER, NEC, OR BLUEPRINTS, BUILDING PLANS OR COMMERCIAL DESIGNS	28123	SODIUM COMPOUNDS EXC. SODIUM ALKALIES SEE
276	MANIFOLD BUSINESS FORMS	28124	POTASSIUM ALKALIES
2761	MANIFOLD BUSINESS FORMS	28125	POTASSIUM COMPOUNDS EXC. POTASSIUM ALKALIES SEE 28124
27611	MANIFOLD BUSINESS FORMS	28126	BARIUM, CALCIUM, MAGNESIUM OR STRONTIUM COMPOUNDS EXC. BLEACHES SEE 28121 OR 28422
277	GREETING CARDS, SEALS, LABELS OR TAGS	28128	CHLORINE
2771	GREETING CARDS, SEALS, LABELS OR TAGS	28129	ALKALIES, NEC
27711	GREETING CARDS, SEALS, LABELS OR TAGS	2813	INDUSTRIAL GASES, COMPRESSED, LIQUEFIED OR SOLID EXC. CHEMICAL WARFARE GASES SEE 2818, AMMONIA OR FLUORINE SEE 2819 OR CHLORINE SEE 2812
278	BLANKBOOKS, LOOSE LEAF BINDERS OR DEVICES	28132	ACETYLENE
2781	BLANKBOOKS, LOOSE LEAF BINDERS OR DEVICES	28133	CARBON DIOXIDE
27811	BLANKBOOKS, PADS OR TABLETS	28134	ELEMENTAL GASES
27812	LOOSE LEAF BINDERS OR DEVICES		
279	SERVICE INDUSTRIES FOR PRINTING TRADES		

28139	INDUSTRIAL GASES, NEC, COMPRESSED, SOLID OR LIQUEFIED EXC. CHEMICAL WARFARE GASES SEE 28188, AMMONIA OR AMMONIA COMPOUNDS SEE 28191 OR 28198, CHLORINE SEE 28128 OR FLUORINE SEE 28100. SEE STCC 6001-AJ FOR FULL DESCRIPTION	28180	MISCELLANEOUS ACYCLIC ORGANIC CHEMICAL (SEE ALSO 28181 AND 28182) EXC. ORGANIC DYES SEE 28156
2814	CRUDE PRODUCTS FROM COAL TAR, NATURAL GAS OR PETROLEUM EXC. ASPHALT, PITCHES OR TAR SEE 2911	28181	MISCELLANEOUS ACYCLIC ORGANIC CHEMICAL EXC. ORGANIC DYES SEE 28156
28141	CRUDE PRODUCTS FROM COAL TAR, NATURAL GAS OR PETROLEUM EXC. ASPHALT, PITCHES OR TAR SEE 29116	28182	MISCELLANEOUS ACYCLIC ORGANIC CHEMICAL EXC. ORGANIC DYES SEE 28156
2815	CYCLIC INTERMEDIATES OR DYES OR ORGANIC PIGMENTS (LAKES OR TONERS)	28183	MISCELLANEOUS CYCLIC CHEMICAL PRODUCTS
28151	CYCLIC INTERMEDIATES BENZENE, TOLUENE, NAPHTHALENE, ANTHRACENE, PYRIDINE, CARBAZOLE OR OTHER CYCLIC CHEMICAL PRODUCTS	28184	ALCOHOLS
28152	CYCLIC INTERMEDIATES BENZENE, TOLUENE, NAPHTHALENE, ANTHRACENE, PYRIDINE, CARBAZOLE OR OTHER CYCLIC CHEMICAL PRODUCTS (SEE ALSO 28151)	28185	GLYCOLS OR GLYCERINES
28156	ORGANIC DYES	28186	ORGANIC ACIDS OR SALTS EXC. ACID DYES SEE 28151-28158, OR FATTY ACIDS SEE 28994
28158	ORGANIC PIGMENTS (LAKES OR TONERS)	28187	MISCELLANEOUS ACYCLIC INORGANIC PRODUCTS (SEE ALSO 28180, 28181, EXC. ORGANIC DYES SEE 28156
2816	INORGANIC PIGMENTS EXC. BLACKS SEE 2899 OR IC COLOR PIGMENTS SEE 2815	28188	CHEMICAL WARFARE GASES
28161	TITANIUM PIGMENTS	28189	INDUSTRIAL ORGANIC CALS, NEC EXC. GRAIN ALCOHOL FOR BEVERAGE PURPOSES SEE 28511- 28519, PLASTIC MATERIALS, SYNTHETIC... (see STCC 6001- AJ FOR FULL DESCRIPTION)
28162	LEAD PIGMENTS	2819	INDUSTRIAL INORGANIC CHEMICALS, NEC EXC. MINING, MILLING OR PREPARING NATURAL BORON, SODIUM OR POTASSIUM COMPOUNDS SEE 1471, OR HOUSEHOLD BLEACHES SEE 2842. SEE STCC 6001-AJ FOR FULL DESCRIPTION.
28163	ZINC PIGMENTS	28190	INDUSTRIAL INORGANIC CHEMICALS, NEC (SEE ALSO 28199) EXC. MINING, ING OR OTHERWISE PREPARING NATURAL BORON, OR POTASSIUM COMPOUNDS SEE 14713, OR HOUSEHOLD see STCC 6001-AJ FOR FULL DESCRIPTION
28169	INORGANIC PIGMENTS, NEC EXC. BLACKS SEE 28996 OR ORGANIC COLOR PIGMENTS SEE 28158	28191	AMMONIA OR AMMONIUM COMPOUNDS EXC. ANHYDROUS AMMONIA SEE 28198
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 ORSEE STCC 6001- AJ FOR FULL DESCRIPTION	28192	NITRIC ACID
		28193	SULPHURIC ACID

28194	INDUSTRIAL INORGANIC ACIDS EXC. NITRIC SEE 28192, OR SULPHURIC SEE 28193	284	SOAP OR OTHER CLEANING PREPARATIONS, COSMETICS, PERFUMES OR OTHER TOILET
28195	COBALT, COPPER, IRON, NICKEL OR ZINC COMPOUNDS	2841	SOAP OR OTHER DETERGENTS EXC. SPECIALTY CLEANERS SEE 2842, SHAMPOOS OR SHAVING PRODUCTS SEE 2844 OR SYNTHETIC GLYCERIN SEE 2818
28196	ALUMINUM COMPOUNDS		
28197	RADIO-ACTIVE OR NUCLEAR CHEMICALS	28411	SYNTHETIC ORGANIC DETERGENTS EXC. SYNTHETIC GLYCERIN SEE 28185
28198	ANHYDROUS AMMONIA		
28199	INDUSTRIAL INORGANIC CHEMICALS, NEC EXC. MINING, MILLING OR PREPARING NATURAL BORON, SODIUM OR POTASSIUM COMPOUNDS SEE 14713, OR HOUSEHOLD BLEACHES SEE 28422. SEE STCC 6001-AJ FOR FULL DESCRIPTION	28419	SOAP OR OTHER DETERGENTS EXC. SHAMPOOS OR SHAVING PRODUCTS, SEE 28441, SPECIALTY CLEANERS SEE 28422-28423 OR SYNTHETIC ORGANIC DETERGENTS SEE 28411
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	2842	SPECIALTY CLEANING, POLISHING OR SANITATION PREPARATIONS, OR HOUSEHOLD BLEACHES EXC. SOAP OR DETERGENTS SEE 2841 PESTICIDAL PREPARATIONS SEE 2879
2821	PLASTIC MATERIALS OR SYNTHETIC FIBRES, RESINS, RUBBERS OR ELASTOMERS EXC.	28422	SPECIALTY CLEANING, POLISHING OR SANITATION PREPARATIONS, OR HOUSEHOLD BLEACHES EXC. CIDAL PREPARATIONS SEE 28799
28211	PLASTIC MATERIALS OR SYNTHETIC RESINS OR NONVULCANIZABLE ELASTOMERS EXC. FABRICATED PLASTIC PRODUCTS SEE 30711-30719	28423	WAXES OR POLISHING RATIONS OR RELATED PRODUCTS
28212	SYNTHETIC RUBBERS NIZABLE ELASTOMERS) EXC. FABRICATED RUBBER PRODUCTS SEE 30611- 30619	2843	SURFACE ACTIVE OR ING AGENTS, SULFONATED OILS OR ASSISTANTS
28213	SYNTHETIC FIBERS EXC. GLASS SEE 32293	28431	SURFACE ACTIVE OR ING AGENTS, SULFONATED OILS OR ASSISTANTS
283	DRUGS (BIOLOGICAL OR BOTANICAL PRODUCTS) (MEDICINAL CHEMICALS OR PHARMACEUTICAL PREPARATIONS)	2844	COSMETICS, PERFUMES OR OTHER TOILET EXC. ESSENTIAL OILS SEE 2899, OR SYNTHETIC FLA VORING OR PERFUME MATERIALS SEE 2818
2831	DRUGS (BIOLOGICAL OR BOTANICAL PRODUCTS) (MEDICINAL CHEMICALS OR PHARMACEUTICAL PREPARATIONS)	28441	COSMETICS, PERFUMES OR OTHER TOILET EXC. ESSENTIAL OILS SEE 28999, OR SYNTHETIC FLAVORING OR PERFUME MATERIALS SEE 28189
28311	DRUGS FOR HUMAN USE	285	PAINTS, ENAMELS, LACQ UERS, SHELLACS OR VARNISHES, OR ALLIED PRODUCTS EXC. BONE, CARBON LAMP BLACKS, CALKING COMPOUNDS OR PRINTERS SEE 289, INORGANIC OR see STCC 6001-AJ FOR FULL DESCRIPTION
28312	DRUGS FOR VETERINARY USE		

2851	PAINTS, ENAMELS, LACQUERS, SHELLACS OR VARNISHES, OR ALLIED PRODUCTS EXC. BONE, CARBON LAMP BLACKS SEE 2899, CAULKING COMPOUNDS SEE 2891, INORGANIC OR see STCC 6001-AJ FOR FULL DESCRIPTION	28799	AGRICULTURAL CHEMICALS, NEC, FUNGICIDES, HERBICIDES OR PLANT HORMONES, HOUSEHOLD OR INDUSTRIAL PESTICIDAL PREPARATIONS, OR AGRICULTURAL DISINFECTANTS, INSECTICIDES OR see STCC 6001-AJ FOR FULL DESCRIPTION
28511	PAINTS, ENAMELS, LACQUERS, SHELLACS OR VARNISHES	289	MISCELLANEOUS CHEMICAL PRODUCTS
28512	PAINT OILS, SOLVENTS OR THINNERS, PAINT DRYING INGREDIENTS OR RELATED PRODUCTS	2891	ADHESIVES
28513	PUTTY	28911	ADHESIVES, CEMENTS, GLUES, SIZES, CALKING COMPOUNDS OR SEALANTS EXC. ASBESTOS CEMENT SEE 32921-32929
28519	PAINTS, ENAMELS, LACQUERS, SHELLACS OR VARNISHES OR ALLIED NEC, INCLUDING MIXED SHIPMENTS EXC. BONE, CARBON OR LAMP BLACKS 28996, CALKING COMPOUNDS see STCC 6001-AJ FOR FULL DESCRIPTION	2892	EXPLOSIVES EXC. AMMUNITION SEE 1929 OR 1961 FIREWORKS OR SEE 2899
286	GUM OR WOOD CHEMICALS	28921	EXPLOSIVES EXC. AMMUNITION SEE 19291-19299, 19611, FIREWORKS OR TECHNICS SEE 28993
2861	GUM OR WOOD CHEMICALS EXC. SYNTHETIC DYES SEE 2815 OR SYNTHETIC CHEMICALS OR TANNING MATERIALS SEE 2818	2893	PRINTING INK
28612	GUM OR WOOD CHEMICALS EXC. SYNTHETIC DYES SEE 28151-28158 OR SYNTHETIC ORGANIC CHEMICALS OR TANNING MATERIALS SEE 28181-28189	28931	PRINTING INK
287	AGRICULTURAL CHEMICALS	2899	CHEMICALS OR CHEMICAL PREPARATIONS, NEC
2871	FERTILIZERS EXC. MILLED, MINED OR OTHERWISE PREPARED NATURAL BORON, SODIUM OR POTASSIUM COM-	28991	SALT, COMMON
28712	SUPERPHOSPHATE SOLUTION OR NITROGEN FERTILIZER SOLUTION	28993	FIREWORKS OR
28714	MISCELLANEOUS FERTILIZER COMPOUNDS	28994	FATTY ACIDS
28719	FERTILIZERS, NEC EXC. MILLED, MINED OR OTHERWISE PREPARED NATURAL BORON, SODIUM OR POTASSIUM COMPOUNDS SEE 14713	28995	WATER TREATING COMPOUNDS
2879	MISCELLANEOUS AGRICULTURAL CHEMICALS	28996	BLACKS
		28997	MISCELLANEOUS CHEMICAL COMPOUNDS (ALSO SEE 28998) EXC. SEALANTS SEE 28911
		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	29529	ASPHALT COATINGS OR FELTS, NEC EXC. PAINT 28511-28519 OR LINOLEUM OR TILE CEMENT SEE 28911
29112	KEROSENE EXC. JET FUELS SEE 29111	299	MISCELLANEOUS COAL OR PETROLEUM PRODUCTS
29113	DISTILLATE FUEL OIL	2991	MISCELLANEOUS COAL OR PETROLEUM PRODUCTS EXC. PETROLEUM REFINERY SEE 2911
29114	PETROLEUM LUBRICATING OR SIMILAR OILS, COMPOUNDS OR DERIVATIVES	29911	COAL OR COKE BRIQUETTES (FUEL BRICKS), INCLUDING ANTHRACITE CULM, BITUMINOUS SLACK, CHARCOAL,
29115	PETROLEUM LUBRICATING GREASES	29912	PEAT OR SAWDUST LUBRICANTS OR SIMILAR COMPOUNDS EXC. PETROLEUM REFINERY SEE 29114 OR 29115
29116	ASPHALT PITCHES OR TARS, FROM PETROLEUM, COAL COKE OVEN OR NATURAL GAS OILS OR OTHER LOW VOLATILE PETROLEUM FUELS	29913	PETROLEUM COKE EXC. BRIQUETTES SEE 29911
29119	PETROLEUM REFINING PRODUCTS, NEC EXC. LIQUEFIED PETROLEUM GASES SEE OR PETROLEUM COKE SEE 29913	29914	COKE PRODUCED FROM COAL
2912	LIQUEFIED GASES, COAL OR PETROLEUM	29915	DISTILLATE OR RESIDUAL FUEL OIL FROM COAL REFINING
29121	LIQUEFIED GASES, COAL OR PETROLEUM	29919	COAL OR PETROLEUM PRODUCTS, NEC EXC. DYES, DYE (CYCLIC) INTERMEDIATES SEE 28151-28158 OR PETROLEUM REFINERY SEE 29111-29119
295	PAVING OR ROOFING MATERIALS	30	RUBBER OR MISCELLANEOUS PLASTICS PRODUCTS
2951	ASPHALT PAVING BLOCKS OR MIXTURES, INCLUDING CREOSOTED WOOD, TAR OR SITION OF ASPHALT OR TAR WITH OTHER MATERIALS	301	RUBBER TIRES OR INNER TUBES
29511	ASPHALT PAVING BLOCKS OR MIXTURES, INCLUDING SOTED WOOD, TAR OR SITION OF ASPHALT OR TAR WITH OTHER MATERIALS	3011	RUBBER TIRES OR INNER TUBES
2952	ASPHALT COATINGS OR FELTS OR ROOFING CEMENTS EXC. PAINT SEE 2851 OR LINOLEUM OR TILE CEMENT SEE 2891	30111	RUBBER PNEUMATIC TIRES PARTS
29521	ASPHALT OR TAR SATURATED FELTS, BOARDS OR ROOFING	30114	RUBBER INNER TUBES
29522	ASPHALT OR TAR CEMENTS COATINGS OR ROOFING CEMENTS OR PITCHES EXC. LINOLEUM OR TILE CEMENT SEE 28911	30115	TREAD RUBBER OR RUBBER TIRE SUNDRIES OR REPAIR MATERIALS
29523	ASPHALT SHEATHINGS, SHINGLES OR SIDINGS	30119	RUBBER TIRES OR RELATED PRODUCTS, NECRUBBER OR PLASTIC FOOTWEAR
		302	PRODUCTS, NECRUBBER OR PLASTIC FOOTWEAR
		3021	RUBBER OR PLASTIC FOOTWEAR, INCLUDING FABRICWITH RUBBER OR PLASTICSOLES
		30211	FOOTWEAR, RUBBER OR RUBBER SOLED FABRIC, CANVASWITH RUBBER SOLES, LEATHER WITH VULCANIZED RUBBER SOLES OR PLASTIC WITH RUBBER

30212	PLASTIC FOOTWEAR, ING FABRIC WITH PLASTIC SOLES	30715	UNSUPPORTED PLASTIC OR WALL COVERINGS
303	RECLAIMED RUBBER	30716	EXPANDED OR FOAMED PLASTICS
3031	RECLAIMED RUBBER	30717	PLASTIC LAMINATED RODS, SHEETS OR TUBES
30311	RECLAIMED RUBBER	30718	PLASTIC PACKAGING OR SHIPPING CONTAINERS, BASKETS, BOTTLES, BOXES, CANS, CUPS, DRUMS, JARS, TUBS, TUBES OR TUMBLERS OR CAPS, CLOSURES, IN-SERTS, OR LINERS FOR see STCC 6001-AJ FOR FULL DESCRIPTION
304	RUBBER OR PLASTIC HOSE BELTING	30719	MISCELLANEOUS FABRICATED PLASTIC PRODUCTS, NEC EXC. ARTIFICIAL LEATHER SEE 22951, PLASTIC MATERIALS SEE 28211, FOOTWEAR SEE 30212, TIC BELTING SEE 30411 OR see STCC 6001-AJ FOR FULL DESCRIPTION
3041	RUBBER OR PLASTIC HOSEBELTING	3072	MISCELLANEOUS PLASTIC PRODUCTS EXC. ARTIFICIAL LEATHER SEE 2295 OR TIC MATERIALS SEE 2821
30411	RUBBER OR PLASTIC BELTS OR BELTING	30729	MISCELLANEOUS FABRICATED PLASTIC PRODUCTS, NEC EXC. ARTIFICIAL LEATHER SEE 22951, PLASTIC MATERIALS SEE 28211, PLASTIC FOOTWEAR SEE 30212, TIC BELTING SEE 30411 OR see STCC 6001-AJ FOR FULL DESCRIPTION
30412	RUBBER OR PLASTIC HOSE	31	DESCRIPTION LEATHER OR LEATHER PRODUCTS
306	MISCELLANEOUS FABRICATED RUBBER PRODUCTS	311	LEATHER
3061	MISCELLANEOUS FABRICATED RUBBER PRODUCTS	3111	LEATHER, FINISHED OR TANNED
30613	SPONGE OR FOAM RUBBER GOODS	31111	LEATHER, FINISHED OR TANNED
30614	RUBBER FLOOR OR WALL	312	INDUSTRIAL LEATHER BELTING
30618	COVERINGS FABRICATED RUBBER PRODUCTS, NEC EXC. ELASTIC WEBBING SEE 22411, ELASTIC WEBBING PRODUCTS OR RUBBERIZED FABRIC GARMENTS SEE 23, SYNTHETIC RUBBERS SEE 28212, see STCC 6001-AJ FOR FULL DESCRIPTION	3121	INDUSTRIAL LEATHER BELTING
30619	FABRICATED RUBBER PRODUCTS, NEC EXC. ELASTIC WEBBING SEE 22411, ELASTIC WEBBING PRODUCTS OR RUBBERIZED FABRIC GARMENTS SEE 23, SYNTHETIC RUBBERS SEE 28212, see STCC 6001-AJ FOR FULL DESCRIPTION	31211	INDUSTRIAL LEATHER BELTING
307	MISCELLANEOUS PLASTIC PRODUCTS	313	BOOT OR SHOE CUT STOCK FINDINGS, ALL MATERIALS
3071	MISCELLANEOUS PLASTIC PRODUCTS EXC. ARTIFICIAL	3131	BOOT OR SHOE CUT STOCK FINDINGS, ALL MATERIALS
30711	LEATHER SEE 2295 OR TIC MATERIALS SEE 2821 PLASTIC DINNERWARE OR HOUSEWARES	31311	BOOT OR SHOE CUT STOCK FINDINGS, ALL MATERIALS
30712	PLASTIC PIPE, TUBING OR FITTINGS		
30713	INDUSTRIAL (MOLDED) TIC PRODUCTS		
30714	UNSUPPORTED VINYL OR POLYETHYLENE FILM OR SHEETING		

314	FOOTWEAR, LEATHER OR OTHER MATERIALS EXC. RUBBER OR PLASTIC SEE	32113	LAMINATED OR SAFETY
3141	FOOTWEAR, LEATHER OR OTHER MATERIALS EXC. RUBBER OR PLASTIC SEE 3021 OR HOUSE SLIPPERS SEE 3142	32119	FLAT GLASS, NEC
31411	FOOTWEAR, LEATHER OR OTHER MATERIALS EXC. RUBBER SEE 30211, SEE 30212 OR HOUSE SLIPPERS SEE 31421	322	GLASS OR GLASSWARE, PRESSED OR BLOWN
3142	HOUSE SLIPPERS, LEATHER OR OTHER MATERIALS	3221	GLASS CONTAINERS
31421	HOUSE SLIPPERS, LEATHER OR OTHER MATERIALS	32211	GLASS CONTAINERS, OR GLASS CAPS OR COVERS GLASS BOTTLES SEE 32212
315	LEATHER GLOVES OR MITTENS	32212	GLASS BOTTLES
3151	LEATHER DRESS OR WORK GLOVES OR MITTENS EXC. ATHLETIC OR SPORTING SEE 3949 OR CLOTH AND COMBINED SEE 2381	32219	GLASS CONTAINERS, NEC
31511	LEATHER DRESS OR WORK GLOVES OR MITTENS EXC. ATHLETIC OR SPORTING SEE 3949 OR CLOTH AND COMBINED SEE 23811-23812	3229	GLASS OR GLASSWARE, 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. SEE STCC 6001-AJ FOR FULL DESCRIPTION
316	LUGGAGE OR HANDBAGS, LEATHER OR OTHER MATERIALS, OR OTHER PERSONAL LEATHER GOODS EXC. PRECIOUS METAL SEE 391	32291	ART, KITCHEN, NOVELTY OR TABLE GLASSWARE
3161	LUGGAGE OR HANDBAGS, LEATHER OR OTHER MATERIALS, OR OTHER PERSONAL LEATHER GOODS EXC. PRECIOUS METAL SEE 3911	32292	LIGHTING GLASSWARE EXC. COMPLETE ELECTRIC LIGHT BULBS SEE 36411
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	32293	GLASS FIBRE
319	LEATHER GOODS, NEC	32294	GLASS MIRRORS
3199	LEATHER GOODS, NEC	32295	GLASS BLOCKS, BRICK, SKYLIGHTS OR RELATED PRODUCTS
31999	LEATHER GOODS, NEC	32296	ELECTRONIC GLASSWARE COMPLETE ELECTRONIC SEE 36711
32	CLAY, CONCRETE, GLASS OR STONE PRODUCTS	32299	GLASS OR GLASSWARE, OR PRESSED, NEC EXC. GLASS SEE 32111-32119, GLASS CONTAINERS SEE 32211-32219, GLASS WOOL INSULATION PRODUCTS (MINERAL WOOL) SEE 32961 OR See STCC 6001-AJ FOR FULL DESCRIPTION
321	FLAT GLASS	324	HYDRAULIC CEMENT
3211	FLAT GLASS	3241	HYDRAULIC CEMENT
32111	SHEET (WINDOW) GLASS	32411	HYDRAULIC CEMENT, NATURAL, PORTLAND OR MASONRY
32112	PLATE GLASS	32412	READY-MIX CEMENT OR CONCRETE, DRY
		325	STRUCTURAL CLAY 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	3261	VITREOUS CHINA PLUMBING FIXTURES OR VITREOUS CHINA OR EARTHENWARE BATHROOM ACCESSORIES OR FITTINGS
32511	BRICK OR BLOCKS, CLAY OR SHALE EXC. CLAY OR NONCLAY REFRACTORIES SEE 32551-32552, GLASS SEE 32295 OR SAND LIME SEE 32999	32611	VITREOUS CHINA PLUMBING FIXTURES OR VITREOUS CHINA OR EARTHENWARE BATHROOM ACCESSORIES OR FITTINGS
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... (SEE STCC 6001-AJ FOR FULL DESCRIPTION)	3262	VITREOUS CHINA KITCHEN TABLE ARTICLES OR FINE EARTHENWARE OR WHITEWARE)
3253	CERAMIC FLOOR OR WALL TILE EXC. DRAIN TILE SEE 3259 OR STRUCTURAL CLAY TILE SEE 3251	32621	VITREOUS CHINA KITCHEN TABLE ARTICLES OR FINE EARTHENWARE OR WHITEWARE)
32531	CERAMIC, ENAMEL, FAIENCE, PROMENADE OR QUARRY FLOOR OR WALL TILE EXC. DRAIN TILE SEE 32592 OR STRUCTURAL CLAY TILE SEE 32512	3264	PORCELAIN ELECTRICAL SUPPLIES, STEATITE OR OTHER CERAMIC ELECTRICAL SUPPLIES
3255	REFRACTORIES, CLAY OR NONCLAY	32641	PORCELAIN ELECTRICAL SUPPLIES, STEATITE OR OTHER CERAMIC ELECTRICAL SUPPLIES
32551	CLAY REFRACTORIES	3269	MISCELLANEOUS POTTERY PRODUCTS
32552	NONCLAY REFRACTORIES DEAD BURNED MAGNESIA OR MAGNESITE SEE 32953	32699	POTTERY PRODUCTS, NEC
3259	MISCELLANEOUS STRUCTURAL CLAY PRODUCTS	327	CONCRETE, GYPSUM, OR PLASTER PRODUCTS
32591	CLAY CONDUIT, CULVERTS, PIPE OR FITTINGS	3271	CONCRETE PRODUCTS EXC. READY-MIX CONCRETE SEE 3273
32592	CLAY DRAIN TILE	32711	CONCRETE BRICK OR BLOCKS
32593	CLAY ARCHITECTURAL TERRA COTTA	32713	CONCRETE PILING, POLES POSTS
32594	CLAY ROOFING TILE	32714	CONCRETE CONDUIT, CULVERTS, DRAINS, PIPE OR TILE
32595	CLAY TILE BEAMS, CHANNELS, DOUBLE TREES, GIRDERS OR JOISTS, REINFORCED	32715	CONCRETE STRUCTURAL SHAPES, REINFORCED
32599	STRUCTURAL CLAY PRODUCTS, NEC	32719	CONCRETE PRODUCTS, NEC
326	POTTERY OR RELATED PRODUCTS	3273	READY-MIX CONCRETE, WET
		32731	READY-MIX CONCRETE, WET
		3274	LIME OR LIME PLASTER
		32741	LIME OR LIME PLASTER
		3275	GYPSUM PRODUCTS
		32751	GYPSUM LATH
		32752	GYPSUM PLASTER
		32753	GYPSUM BUILDING EXC. LATH SEE 32751, PLASTER SEE 32752 OR WALLBOARD SEE 32754

32754	GYPSPUM WALLBOARD	3293	GASKETS OR PACKING
32759	GYPSPUM PRODUCTS EXC. GYPSPUM BUILDING SEE 32751-32753	32931	GASKETS, ALL TYPES
328	CUT STONE OR STONE PROD UCTS	32932	PACKING, ALL TYPES
3281	CUT STONE OR STONE PROD UCTS	3295	NONMETALLIC EARTHS OR MINERALS, GROUND OR TREATED IN ANY OTHER NER EXC. COAL SEE 1111-1122 OR 2991, CRUSHED STONE SEE 1421, DIATOMACEOUS OR see STCC 6001-AJ FOR FULL description
32811	CUT GRANITE OR GRANITE PRODUCTS	32951	VERMICULITE, EXFOLIATED, LOOSE
32812	CUT LIMESTONE OR LIME STONE PRODUCTS	32952	LIGHT WEIGHT AGGREGATES, CLAYS OR SLAGS, GROUND TREATED IN ANY OTHER MANNER EXC. GROUND OR OTHERWISE TREATED AT SITE SEE 14911-14919, OR DIATOMACEOUS OR see STCC 6001-AJ FOR FULL DESCRIPTION
32813	CUT MARBLE OR MARBLE PRODUCTS	32953	MAGNESITE OR MAGNESIA, CALCINED, DEAD BURNED OR GROUND
32814	CUT SLATE, SOAPSTONE, TALC OR RELATED PRODUCTS	32954	PYROPHILLITE, STEATITE (SOAPSTONE) OR TALC, GROUND OR OTHERWISE TREATED
32819	CLAY STONE OR STONE UCTS, NEC	32955	FELDSPAR, GROUND OR OTHERWISE TREATED
329	ABRASIVES, ASBESTOS UCTS OR MISCELLANEOUS NONMETALLIC MINERAL PRODUCTS	32956	GROUND UNCALCINED GYPSITE OR ANHYDRITE
3291	ABRASIVE PRODUCTS	32957	MICA, GROUND OR TREATED
32911	NONMETALLIC ARTIFICIAL ABRASIVES, FLOUR TIC ABRASIVES), POWDERS OR SIZED GRAINS	32958	NATURAL GRAPHITE (BLACK LEAD), BLENDED, GROUND, PULVERIZED OR REFINED
32912	NONMETALLIC BONDED ABRASIVE PRODUCTS, NONMETALLIC COATED ABRASIVES, OR DIAMOND ABRASIVES	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
32914	METAL ABRASIVES OR METAL SCOURING PADS, SOAP IMPREGNATED	3296	MINERAL WOOL EXC. ASBESTOS INSULATION SEE 3292 OR TEXTILE GLASS FIBRES SEE 3229
32919	ABRASIVE PRODUCTS, NEC	32961	MINERAL WOOL EXC. ASBESTOS INSULATION SEE 32924 OR TEXTILE GLASS FIBRES SEE 32293
3292	ASBESTOS PRODUCTS OR ASPHALT FLOOR TILE EXC. ASBESTOS PAPER SEE 2661, OR GASKETS OR PACKING 3293	3299	MISCELLANEOUS MINERAL PRODUCTS
32921	ASBESTOS FRICTION MATERIAL		
32922	ASBESTOS CEMENT PRODUCTS		
32923	ASPHALT OR VINYL FLOOR TILE EXC. ASPHALTED FELT BASE OR OTHER HARD SURFACE FLOOR COVERINGS SEE 39921 OR CORK TILE SEE 24941		
32924	ASBESTOS INSULATION		
32929	ASBESTOS PRODUCTS, NEC EXC. ASBESTOS PAPER SEE 26612, OR GASKETS OR PACKING SEE 32931-32932		

32996	NONMETALLIC MINERAL LATING MATERIALS EXC. ASBESTOS SEE 32924, GYPSUM SEE 32753, MINERAL WOOL SEE 32961 OR PAPER SEE 26614	33128	RAILWAY TRACK MATERIAL VIZ. RAILS, JOINT BARS, TIE PLATES OR RELATED PRODUCTS
32999	NONMETALLIC MINERAL UCTS, NEC, PAPIERMACHE ART GOODS, STATUARY GOODS, URNS OR VASES	33129	PRIMARY IRON OR STEEL PRODUCTS, N.E.C.
33	PRIMARY METAL PRODUCTS, INCLUDING GALVANIZED COATING OR OTHER ALLIED PROCESSING SEE 34994	3313	ELECTROMETALLURGICAL PRODUCTS EXC. COPPER
331	STEEL WORKS, ROLLING MILL, OR OTHER REDUCTION PLANT PRODUCTS, GALVANIZED PRODUCTS EXC. COATING OR OTHER ALLIED PROCESSING SEE 34994	33131	FERROMANGANESE
3311	BLAST OR METALLIZING FURNACE OR COKE OVEN PRODUCTS EXC. COKE, OR COKE BREEZE OR	33132	FERROCHROME
33111	PIG IRON	33133	FERROSILICON
33112	FURNACE SLAG EXC. GROUND OR OTHERWISE TREATED SEE 32952	33134	ADDITIVE ALLOYS EXC. COPPER
33115	METALLIZING PLANT PRODUCTS	33135	ELECTROMETALLURGICAL PRODUCTS, NEC EXC. ALUMINUM, MAGNESIUM OR COPPER
33119	BLAST FURNACE, OPEN HEARTH, ROLLING MILL OR COKE OVEN PRODUCTS, NEC XC. ASPHALT, PITCHES OR ARS SEE 29116, CRUDE RODUCTS, OR CHEMICALS 28, METALLIC ORES SEE10	33139	FERROALLOYS, NEC
3312	PRIMARY IRON OR STEEL PRODUCTS, INCLUDING GALVANIZED PRODUCTS EXC. COATING OR ALLIED PROCESSING SEE 34994 OR OVEN PRODUCTS SEE 3311	3315	STEEL WIRE, NAILS OR SPIKES, INCLUDING GALVANIZED EXC. COATING OR OTHER ALLIED PROCESSING SEE 34994
33121	STEEL INGOT OR SEMI-FINISHED SHAPES	33151	NONINSULATED FERROUS ROPE, CABLE OR STRAND
33122	IRON OR STEEL PLATES	33152	STEEL NAILS, STAPLES, TACKS, BRADS OR SPIKES EXC. RAILWAY SPIKES SEE 33128
33123	IRON OR STEEL SHEET OR STRIP	33155	STEEL WIRE EXC. NEOUS FABRICATED WIRE PRODUCTS SEE 34812-34819
33124	IRON OR STEEL BARS, BAR SHAPES OR RODS	332	IRON OR STEEL CASTINGS, INCLUDING GALVANIZED COATING OR OTHER ALLIED PROCESSING SEE 34994
33125	STRUCTURAL SHAPES OR PILING, STEEL MILL PRODUCTS	3321	IRON OR STEEL CASTINGS, INCLUDING GALVANIZED COATING OR OTHER ALLIED PROCESSING SEE 34994
33126	IRON OR STEEL PIPE, OR FITTINGS	33211	IRON OR STEEL CAST PIPE OR FITTINGS
33127	TIN MILL PRODUCTS	33219	IRON OR STEEL CASTINGS, NEC
		333	NONFERROUS METAL PRIMARY SMELTER PRODUCT VIZ. SLAB, INGOT, PIG, ETC., OR RESIDUES
		3331	PRIMARY COPPER SMELTER PRODUCTS
		33311	PRIMARY COPPER OR COPPER BASE ALLOY PIG, SLAB OR INGOTS, ETC.

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

33569	NONFERROUS METAL BASIC SHAPES, NEC EXC. INCLUDED IN PRIMARY IN DUSTRIES SEE 33398	33699	NONFERROUS METAL CASTINGS, N.E.C.
3357	NONFERROUS METAL OR LATED WIRE EXC. COATING OR OTHER ALLIED PROCESSING SEE 34994	339	MISCELLANEOUS PRIMARY METAL PRODUCTS EXC. ING OR OTHER ALLIED PRO-CCESSING SEE 34994
33571	ALUMINUM OR ALUMINUM ALLOY WIRE, CABLE OR STRAND, BARE	3391	IRON OR STEEL FORGINGSEXC. COATING OR OTHERALLIED PROCESSING SEE 34994
33572	COPPER OR COPPER BASE ALLOY WIRE, STRAND OR CABLE, BARE	33911	IRON OR STEEL FORGINGS
33573	NONFERROUS METAL OR NONFERROUS METAL BASE ALLOY WIRE, BARE EXC. ALUMINUM SEE 33571 OR COPPER SEE 33572	3392	NONFERROUS METAL EXC. COATING OR OTHER ALLIED PROCESSING SEE 34994
33574	WIRE OR CABLE, ENAMELED OR COVERED, ALL TYPES	33921	NONFERROUS METAL
336	NONFERROUS METAL OR NONFERROUS METAL BASE ALLOY CASTINGS EXC. COATING OR OTHER ALLIED PROCESSING SEE 34994	3399	PRIMARY METAL PRODUCTS,NEC EXC. COATING OR ALLIED PROCESSING SEE 34994
3361	ALUMINUM OR ALUMINUM ALLOY CASTINGS EXC. ING OR OTHER ALLIED PRO-	33991	METAL POWDER, FLAKES ORPASTE
33612	CESSING SEE 34994 ALUMINUM OR ALUMINUM ALLOY CASTINGS EXC. ING UTENSILS SEE 36311	33992	NONFERROUS METAL NAILS,BRADS, SPIKES OR STAPLES
3362	BRASS, BRONZE, COPPER OR OTHER COPPER BASE ALLOY CASTINGS EXC. COATING OR OTHER ALLIED PROCESSING SEE 34994	33999	PRIMARY METAL PRODUCTS,NEC
33621	BRASS, BRONZE, COPPER OR OTHER COPPER BASE ALLOY CASTINGS	34	FABRICATED METAL EXC. ORDNANCE SEE 19,MACHINERY SEE 35 OR 36,OR TRANSPORTATION EQUIP-MENT SEE 37
3369	MISCELLANEOUS NONFERROUS METAL CASTINGS EXC. ING OR OTHER ALLIED PROCESSING SEE 34994	341	METAL CANS
33691	MAGNESIUM OR MAGNESIUM BASE ALLOY CASTINGS	3411	METAL CANS
33692	ZINC OR ZINC BASE ALLOY CASTINGS	34111	METAL CANS, INCLUDINGMIXED WITH CAN BOTTOMS TOPS
33693	LEAD, LEAD BASE ALLOY, BABBITT OR WHITE METAL CASTINGS	342	CUTLERY, HAND TOOLS ORGENERAL HARDWARE
		3421	CUTLERY, OTHER THANTRICAL
		34211	KITCHEN OR TABLE CUTLERY OR RELATED CUTTING ANCES, OTHER THAN ELEC-TRICAL
		34213	SCISSORS OR SHEARS, THAN ELECTRICAL
		34215	RAZOR BLADES OR RAZORS, OTHER THAN ELECTRICAL
		34219	CUTLERY, NEC, OTHER THAN ELECTRICAL
		3423	EDGE OR HAND TOOLS EXC. HAND SAWS OR SAW BLADES SEE 3425 OR MACHINE SEE 3541 OR 3542
		34231	MECHANICS HAND SERVICE TOOLS OR LIGHT FORGED HAMMERS

34232	EDGE TOOLS	34294	HOSE FITTINGS, NOZZLES, COUPLINGS OR REELS
34233	FILES, RASPS OR FILE ACCESSORIES	34298	HARDWARE, NEC
34234	SHOVELS, SPADES, OR SCRAPERS	34299	HARDWARE, NEC
34235	HEAVY FORGED TOOLS VIZ. SLEDGES, PICKS, PICK MATTOCKS, MAULS, OR BARS	343	PLUMBING FIXTURES OR HEATING APPARATUS EXC. ELECTRIC SEE 36
34236	AGRICULTURAL HAND TOOLS OR PARTS VIZ. FORKS, HOES, HUSKERS, RAKES, ROLLERS, WEEDERS, ETC. EXC. EDGED TOOLS SEE 34232, WHEELED TRANSPORTATION EQUIPMENT SEE 3799	3431	METAL SANITARY WARE, INCLUDING ENAMELED EXC. VITREOUS SANITARY WARE SEE 3261
34239	HAND TOOLS, NEC EXC. SAWS OR SAW BLADES SEE 34251 OR MACHINE TOOLS SEE 35412 OR 35421	34311	CAST IRON SANITARY WARE, INCLUDING ENAMELED
3425	HAND SAWS OR SAW BLADES	34312	METAL SANITARY WARE, OTHER THAN CAST IRON, INCLUDING ENAMELED
34251	HAND SAWS OR BLADES OR SAW ACCESSORIES	3432	PLUMBING FIXTURE OR TRIM (BRASS GOODS)
3428	BUILDERS OR CABINET WARE OR FIREPLACE EQUIPMENT	34321	PLUMBING FIXTURE OR TRIM VIZ. BATH, SHOW ER, SINK OR LAVATORY FITTINGS, LAVATORY LEGS, STRAINERS, ETC. (BRASS GOODS)
34281	DOOR OR WINDOW HARDWARE	3433	HEATING EQUIPMENT, OTHER THAN ELECTRICAL
34282	FIREPLACE EQUIPMENT, DAMPERS, IRONS OR FIRE SCREENS, HARDWARE	34331	OIL BURNERS, RESIDENTIAL OR INDUSTRIAL
34283	HINGES, HASPS OR BUTTS EXCEPT CABINET SEE 34264	34332	WARM AIR FURNACES EXC. FLOOR OR WALL SEE 34339
34284	CABINET HARDWARE, HINGES OR LOCKS	34333	CAST IRON HEATING BOILERS, RADIATORS OR TORS
34285	HOOKS, CLAMPS, CLIPS, FASTENERS OR SHELF HARDWARE OR HANGERS EXC. OR WINDOW SEE 34281	34334	DOMESTIC HEATING STOVES, OTHER THAN ELECTRICAL
34289	BUILDERS HARDWARE, NEC	34335	STEEL HEATING BOILERS
3429	MISCELLANEOUS HARDWARE EXC. BUILDERS SEE 3428	34336	PARTS FOR NONELECTRIC HEATING EQUIPMENT
34291	TRANSPORTATION EQUIPMENT HARDWARE	34339	HEATING EQUIPMENT, NEC, OTHER THAN ELECTRICAL
34292	FURNITURE HARDWARE OR HARDWARE FOR OFFICE OR HOUSEHOLD FURNITURE	344	FABRICATED STRUCTURAL METAL PRODUCTS
34293	VACUUM OR INSULATED BOTTLES, JUGS OR CHESTS	3441	FABRICATED STRUCTURAL METAL PRODUCTS
		34411	FABRICATED STRUCTURAL IRON OR STEEL PRODUCTS

34412	FABRICATED STRUCTURAL METAL PRODUCTS EXC. IRON OR STEEL SEE 34411	34445	SHEET METAL ROOF EQUIPMENT
3442	METAL OR METAL COVERED DOORS, SASH, FRAMES, MOLDING OR TRIM	34446	SHEET METAL OR METAL COVERED BINS, VATS OR TUBS
34421	METAL DOORS OR DOOR FRAMES EXC. SCREEN AND STORM DOORS SEE 34425	34447	SHEET METAL AWNINGS OR CANOPIES
34422	METAL WINDOW FRAMES OR SASH EXC. STORM SASH OR SCREEN AND STORM SASH 34425	34449	SHEET METAL PRODUCTS,
34423	METAL MOLDING OR TRIM OR STORE FRONTS EXC. MOTOR VEHICLE BODY TRIM SEE 34613	3446	ARCHITECTURAL OR TAL METAL WORK
34425	METAL DOOR OR WINDOW SCREENS, SCREEN OR STORM DOORS, STORM WINDOWS, COMBINATION SCREEN AND STORM DOORS OR WINDOWS, OR METAL WEATHER STRIP	34461	ORNAMENTAL METAL WORK, LAMP POSTS, LATTICEWORK, GRILLWORK, ETC.
3443	FABRICATED PLATE (BOILER SHOP PRODUCTS)	34462	SCAFFOLDING, LADDERS OR RELATED ARTICLES
34431	HEAT EXCHANGERS OR STEAM CONDENSERS	34464	STAIRS, STAIRCASES, BALCONIES, FIRE ESCAPES, RAILINGS, PORTABLE GANGWAYS, PLATFORMS, STAIRWAYS, ETC.
34432	FABRICATED STEEL PLATE FOR PIPE, PENSTOCKS, TUNNEL LININGS, ETC.	34469	ARCHITECTURAL METAL NEC
34433	STEEL POWER BOILERS, PARTS OR ATTACHMENTS	3449	MISCELLANEOUS METAL WORK
34434	GAS CYLINDERS (PRESSURE TANKS)	34492	PREFABRICATED OR METAL BUILDINGS OR PARTS
34435	METAL TANKS EXC. PRESSURE SEE 34434	34499	METAL CONSTRUCTION MATERIALS, N. E. C.
34439	FABRICATED PLATE PRODUCTS, NEC	345	BOLTS, NUTS, SCREWS, RIVETS, WASHERS OR OTHER INDUSTRIAL FASTENERS
3444	SHEET METAL PRODUCTS CONTAINERS, SUCH AS BOXES, KEGS, PAILS, ETS, CRATES, ETC. SEE 34615	3452	BOLTS, NUTS, SCREWS, RIVETS, WASHERS OR OTHER INDUSTRIAL FASTENERS
34441	SHEET METAL ROOFING, CEILING OR SIDING	34521	BOLTS, NUTS, SCREWS, RIVETS OR WASHERS EXC. TOGGLE OR EXPANSION SEE 34529
34442	SHEET METAL CULVERTS, FLUMES, IRRIGATION PIPE OR SIMILAR ARTICLES	34529	INDUSTRIAL FASTENERS, VIZ. DOWELS, COTTER EXPANSION OR TOGGLE BOLTS, ETC.
34443	SHEET METAL CORNICES, SKYLIGHTS OR ROOF VENTILATORS	346	METAL STAMPINGS
34444	SHEET METAL STOVE, FURNACE OR CHIMNEY PIPE, ELBOWS, DUCTS OR	3461	METAL STAMPINGS
		34611	VITREOUS ENAMELED METAL PRODUCTS VIZ. COOKING KITCHEN UTENSILS, REFRIGERATOR PARTS, WASHING MACHINE PARTS, ETC.
		34612	STAMPED OR SPUN COOKING OR KITCHEN HOLD UTENSILS
		34613	AUTOMOBILE STAMPINGS

34614	METAL CLOSURES VIZ. CAPS, COVERS, BOTTOMS TOPS	3494	VALVES OR PIPE FITTINGS OR FABRICATED PIPE OR PIPE FITTINGS EXC. PLUMBERS BRASS GOODS OR FITTINGS SEE 3432
34615	METAL BOXES, BASKETS, BUCKETS, PAILS OR CRATES EXC. SHIPPING SEE 34912-34919 OR 34997	34941	METAL VALVES FOR PIPING, PLUMBING OR HEATING SYSTEMS
34616	DISPENSERS, HOLDERS OR CONTAINERS, NAPKIN, TISSUE OR TOWEL, ETC.	34942	METAL FITTINGS FOR SYSTEMS OR METAL UNIONS
34619	METAL STAMPINGS, NEC	34943	METAL PIPE COILS
348	MISCELLANEOUS FABRICATED WIRE PRODUCTS EXC. STEEL WIRE SEE 3315	34944	FABRICATED PIPE OR PIPE FITTINGS
3481	MISCELLANEOUS FABRICATED WIRE PRODUCTS	3499	FABRICATED METAL PRODUCTS, NEC
34812	WIRE SPRINGS	34991	METAL COLLAPSIBLE TUBES, INCLUDING TOOTHPASTE, COSMETICS, ETC.
34813	WIRE FENCING OR FENCE POSTS OR GATES OR FITTINGS	34992	METAL FOIL OR LEAF, OR PRODUCTS THEREFROM EXC. FOIL SANITARY FOOD CONTAINERS SEE 34996
34814	WIRE CLOTH OR OTHER WIRE PRODUCTS	34993	METAL FURNITURE PARTS
34815	WIRE CHAIN	34994	COATING, ANODIZING, COLORING, ELECTROPLATING, ENGRAVING, PLATING OR POLISHING, ETC. , OF METALS OR METAL PRODUCTS EXC. GALVANIZING SEE 33
34816	BARBED OR TWISTED WIRE	34996	FOIL SANITARY FOOD CONTAINERS
34817	WELDED WIRE FABRIC OR MESH	34997	METAL SHIPPING CONTAINERS, BOXES OR RACKS EXC. BARRELS, CANS, DRUMS, KEGS, PAILS OR REELS SEE 34912-34919
34819	FABRICATED WIRE NEC	34998	FABRICATED METAL PRODUCTS, NEC
349	MISCELLANEOUS FABRICATED METAL PRODUCTS	34999	FABRICATED METAL PRODUCTS, NEC
3491	METAL SHIPPING VIZ. BARRELS, CANS, DRUMS, KEGS, PAILS, ETC.	35	MACHINERY EXC. SEE 36
34912	STEEL SHIPPING VIZ. BARRELS, CANS, DRUMS, KEGS, PAILS, ETC.	351	ENGINES OR TURBINES
34913	METAL SHIPPING REELS	3511	STEAM ENGINES, TURBINES, TURBINE GENERATOR SETS, OR PARTS
34919	METAL SHIPPING CONTAINERS, NEC. VIZ. BARRELS, CANS, DRUMS, KEGS, ETC.	35112	STEAM ENGINES, TURBINES, TURBINE GENERATOR SETS, OR PARTS
3492	METALS SAFES OR VAULTS	3519	MISCELLANEOUS INTERNAL COMBUSTION ENGINES
34921	METAL SAFES OR VAULTS	35195	OUTBOARD MOTORS OR PARTS
3493	STEEL SPRINGS EXC. WIRE SPRINGS SEE 3481		
34931	STEEL SPRINGS EXC. WIRE SPRINGS SEE 34812		

35199	INTERNAL COMBUSTION ENGINES, NEC EXC. MISSILE OR SPACE VEHICLE SEE 37221-37222, MOTOR VEHICLE SEE 37144	35314	POWER CRANES, DRAGLINES, SHOVELS, TRACTORSHOVEL LOADERS OR PARTS
352	FARM MACHINERY OR EQUIPMENT	35316	MIXERS, PAVER OR RELATED EQUIPMENT
3522	FARM MACHINERY OR EQUIPMENT	35318	SCRAPERS, GRADERS, ROLLERS OR OFF-HIGHWAY TRUCKS, TRAILERS OR WAGONS
35222	WHEEL TRACTORS, PARTS OR ATTACHMENTS EXC. GARDEN OR LAWN EQUIPMENT SEE 35241 OR CONTRACTORS OFF-HIGHWAY TRACTORS SEE 35311	35319	CONSTRUCTION MACHINERY EQUIPMENT, NEC
35223	PLANTING, SEEDING OR FERTILIZING MACHINERY OR PARTS	3532	MINING MACHINERY, EQUIPMENT OR PARTS EXC. OIL FIELD MACHINERY OR MENT SEE 3533
35224	PLOWS, LISTERS, HARROWS, ROLLERS, PULVERIZERS, STALK CUTTERS OR PARTS	35321	UNDERGROUND MINING MACHINERY, EQUIPMENT OR PARTS
35225	HARVESTING OR HAY ERY OR PARTS	35322	CRUSHING, PULVERIZING OR SCREENING PLANTS OR
35227	MACHINES FOR PREPARING CROPS FOR MARKET OR FOR USE	35329	MINING MACHINERY, EQUIPMENT OR PARTS, NEC EXC. OIL FIELD MACHINERY, EQUIPMENT OR PARTS SEE 35331-35339
35228	BARN, BARNYARD OR POULTRY EQUIPMENT	3533	OIL FIELD MACHINERY OR EQUIPMENT
35229	FARM MACHINERY OR EQUIPMENT, NEC	35331	GAS OR OIL FIELD OR PRODUCTION MACHINERY, EQUIPMENT OR PARTS
3524	GARDEN TRACTORS, LAWN OR GARDEN EQUIPMENT OR SNOW BLOWERS	35339	GAS OR OIL FIELD MACHINERY OR TOOLS, NEC
35241	GARDEN TRACTORS, LAWN OR GARDEN EQUIPMENT OR SNOW BLOWERS	3534	ELEVATORS OR MOVING STAIRWAYS OR PARTS
353	CONSTRUCTION, MINING OR MATERIALS HANDLING MACHINERY OR EQUIPMENT	35341	ELEVATORS, MOVING STAIRWAYS, EQUIPMENT OR PARTS
3531	CONSTRUCTION MACHINERY EQUIPMENT	3535	CONVEYORS, CONVEYING EQUIPMENT OR PARTS
35311	CONTRACTORS OFF-HIGHWAY WHEEL TRACTORS OR TRACTORS	35351	CONVEYORS, CONVEYING EQUIPMENT OR PARTS EXC. FARM ELEVATORS SEE 35229 OR HOISTS SEE 35361
35312	RAILWAY MAINTENANCE MACHINERY, EQUIPMENT OR PARTS, VIZ. LOCOMOTIVE CRANES, RAIL LAYERS, BALLAST SPREADERS, ETC.	3536	HOISTS, INDUSTRIAL OR MONORAIL SYSTEMS
35313	TRACKLAYING ATTACHMENTS OR PARTS OR CONTRACTORS OFF- HIGHWAY WHEEL OR TRACKED TRACTOR ATTACHMENTS OR PARTS	35361	HOISTS
		35362	OVERHEAD TRAVELING OR MONORAIL SYSTEMS
		3537	INDUSTRIAL TRUCKS, TRACTORS, TRAILERS OR STACKERS

35371	INDUSTRIAL TRUCKS, TRACTORS, TRAILERS STACKERS, OR PARTS	35514	FRUIT OR VEGETABLE CANNING OR PACKING
35373	INDUSTRIAL PALLETS, FORMS OR SKIDS, METAL EXC. WOOD AND IRON COMBINED SEE 24992	35515	BOTTLING MACHINERY EXC. DAIRY SEE 35511
354	METALWORKING MACHINERY EQUIPMENT	35516	FLOUR MILL OR GRAIN MILL MACHINERY
3541	MACHINE TOOLS, METAL CUTTING TYPES	35519	FOOD PRODUCTS MACHINERY, NEC
35412	MACHINE TOOLS, METAL CUTTING TYPES, OR PARTS	3552	TEXTILE MACHINERY, ATTACHMENTS OR PARTS
3542	MACHINE TOOLS, METAL FORMING TYPES	35522	TEXTILE MACHINERY, ATTACHMENTS OR PARTS
35421	MACHINE TOOLS, METAL FORMING TYPES, OR PARTS	3553	WOODWORKING MACHINERY
3544	SPECIAL DIES, TOOLS, DIE SETS, JIGS OR FIXTURES	35531	WOODWORKING MACHINERY
35441	SPECIAL DIES, TOOLS, DIE SETS, JIGS OR DIE OR FIXTURES, OR INDUSTRIAL MOLDS OR PATTERNS	3554	PAPER INDUSTRIES MACHINERY
3545	MACHINE TOOL ACCESSORIES OR MEASURING DEVICES	35541	PAPER INDUSTRIES MACHINERY, PARTS OR
35451	MACHINE TOOL ACCESSORIES OR MEASURING DEVICES	3555	PRINTING TRADES OR EQUIPMENT
3548	METALWORKING MACHINERY EXC. MACHINE TOOLS SEE 3541 OR 3542	35552	PRINTING TRADES OR EQUIPMENT EXC. PRINTERS MATRICES OR PLATES SEE 27911
35481	ROLLING MILL MACHINERY EQUIPMENT	3559	MISCELLANEOUS SPECIAL INDUSTRY MACHINERY
35484	AUTOMOTIVE MAINTENANCE EQUIPMENT OR AUTOMOBILE LIFTS OR RUNWAYS	35591	CHEMICAL MACHINERY OR EQUIPMENT VIZ. CHEMICAL MANUFACTURING INDUSTRIES ONLY
35489	METALWORKING MACHINERY, NEC EXC. MACHINE TOOLS SEE 35412 OR 35421	35592	FOUNDRY MACHINERY OR EQUIPMENT EXC. METAL FURNACES SEE 35671 OR INDUSTRIAL MOLDS OR PATTERNS SEE 35441
355	SPECIAL INDUSTRY MACHINERY EXC. METAL WORKING MACHINERY SEE 3548	35594	PLASTIC OR RUBBER MACHINERY OR EQUIPMENT EXC. INDUSTRIAL MOLDS OR PATTERNS SEE 35441
3551	FOOD PRODUCTS MACHINERY	35595	PETROLEUM REFINERY MACHINERY OR EQUIPMENT
35511	DAIRY OR MILK PRODUCT PLANT MACHINERY OR MENT	35596	COTTON GINNING MACHINERY OR EQUIPMENT
35512	BAKERY MACHINERY OR EQUIPMENT	35597	CLAY WORKING MACHINERY VIZ. BRICK, TILE OR CERAMICS
35513	MEAT OR POULTRY PACKING PLANT MACHINERY	35599	SPECIAL INDUSTRY MACHINERY, NEC
		356	GENERAL INDUSTRIAL MACHINERY OR EQUIPMENT

3561	INDUSTRIAL PUMPS OR ING EQUIPMENT OR AIR OR GAS COMPRESSORS	3573	ELECTRONIC DATA PROCESSING MACHINES OR ASSOCIATED EQUIPMENT EXC. WRITERS OR PARTS SEE
35611	INDUSTRIAL PUMPS, EQUIPMENT OR PARTS	35731	ELECTRONIC DATA PROCESSING MACHINES OR ASSOCIATED EQUIPMENT EXC. TYPEWRITERS OR PARTS SEE 3572
35614	AIR OR GAS COMPRESSORS PARTS EXC. REFRIGERATION COMPRESSORS OR PARTS SEE 35854	3574	ACCOUNTING OR MACHINES OR CASH REGISTERS
35619	INDUSTRIAL PUMPS, EQUIPMENT OR AIR OR GAS COMPRESSORS OR PARTS,	35741	ACCOUNTING OR MACHINES OR CASH REGIS TERS
3562	BALL OR ROLLER BEARINGS	3576	SCALES OR BALANCES EXC. LABORATORY SEE 3811
35621	BALL OR ROLLER BEARINGS, COMPLETE OR MOUNTED, OR PARTS	35761	SCALES OR BALANCES EXC. LABORATORY SEE 38113
3564	EXHAUST BLOWERS OR LATING FANS OR FILTERS	3579	MISCELLANEOUS OFFICE MACHINES
35641	INDUSTRIAL FANS OR BLOWERS	35791	ADDRESSING, DICTATING OR DUPLICATING MACHINES
35642	DUST COLLECTION OR AIR PURIFICATION EQUIPMENT AIR WASHERS OR FILTERS	35799	OFFICE MACHINES, NEC
3566	MECHANICAL POWER TRANSMISSION EQUIPMENT EXC. BALL OR ROLLER BEARINGS SEE 3562	358	SERVICE INDUSTRY
35661	PLAIN BEARINGS	3581	AUTOMATIC MERCHANDISING MACHINES (COIN OPERATED ONLY)
35669	MECHANICAL EQUIPMENT, VIZ. FOR POWER TRANSMISSION ONLY	35811	AUTOMATIC MERCHANDISING MACHINES (COIN OPERATED ONLY)
3567	INDUSTRIAL PROCESS FURNACES OR OVENS	3582	COMMERCIAL LAUNDRY, DRY CLEANING OR PRESSING MACHINES
35671	INDUSTRIAL PROCESS FURNACES OR OVENS	35821	COMMERCIAL LAUNDRY MENT OR PRESSES
3569	MISCELLANEOUS GENERAL INDUSTRIAL MACHINERY OR EQUIPMENT	35822	COMMERCIAL DRY CLEANING EQUIPMENT OR CLOTHES PRESSES
35691	MISCELLANEOUS GENERAL MACHINERY OR EQUIPMENT, NEC, OR PACKAGING OR WRAPPING MACHINES EXC. FOOD SEE 35511- 35119, FILTERS, STRAINERS, HYDRAULIC JACKS, CENTRIFUGALS... (SEE STCC 6001-AJ FOR FULL DESCRIPTION)	3585	REFRIGERATORS OR REFRIGERATION MACHINERY OR COMPLETE AIR UNITS EXC. HOUSEHOLD REFRIGERATORS SEE 3632
357	OFFICE, COMPUTING OR ACCOUNTING MACHINES	35851	HEAT TRANSFER EQUIPMENT
3572	TYPEWRITERS OR PARTS	35853	COMMERCIAL REFRIGERATION EQUIPMENT
35721	TYPEWRITERS OR PARTS	35854	COMPRESSORS OR UNITS, ALL REFRIGERANTS
		35855	CONDENSING UNITS, ALL REFRIGERANTS
		35856	ICE MAKING MACHINERY OR EQUIPMENT

35857	AIR CONDITIONING, OR DEHUMIDIFYING EQUIPMENT	36111	ELECTRICAL METERS, WATT-HOUR, AMPERE-HOUR, DEMAND OR OTHER ING METERS OR PARTS
35859	REFRIGERATORS OR REFRIGERATION MACHINERY, NEC	36112	TEST EQUIPMENT FOR TESTING ELECTRICAL OR RADIO COMMUNICATION CIRCUITS, OR MOTORS
3589	MISCELLANEOUS SERVICE INDUSTRY MACHINES OR INDUSTRIAL VACUUM CLEANERS	36113	INDICATING, MEASURING OR RECORDING INSTRUMENTS (ELECTRICAL QUALITIES OR CHARACTERISTICS)
35891	COMMERCIAL COOKING OR FOOD WARMING EQUIPMENT	3612	POWER, DISTRIBUTION OR SPECIALTY TRANSFORMERS EXC. RADIO OR VOICE FREQUENCY CHOKES, COILS OR TRANSFORMERS SEE 3679 OR RESISTOR WELDING TRANSFORMERS SEE 3623
35892	COMMERCIAL OR INDUSTRIAL VACUUM CLEANERS, PARTS ATTACHMENTS	36121	TRANSFORMERS OR PARTS OR FLUORESCENT BALLASTS
35899	SERVICE INDUSTRY MACHINES, NEC, WATER SOFTENERS, PURIFIERS, FLOOR WAXING, POLISHING OR SCRUBBING MACHINES, CARPET SWEEPERS, MACHINES, ETC.	36123	POWER REGULATORS OR REACTORS
359	MISCELLANEOUS MACHINERY OR PARTS EXC. ELECTRICAL SEE 36	36129	POWER, DISTRIBUTION OR SPECIALTY TRANSFORMERS, NEC EXC. RADIO OR VOICE FREQUENCY CHOKES, COILS OR TRANSFORMERS SEE OR RESISTOR WELDING TRANSFORMERS SEE 36231
3592	CARBURETORS, PISTONS, RINGS OR VALVES	3613	SWITCHGEAR OR APPARATUS EXC. CURRENT CARRYING WIRING DEVICES SEE 3643 OR INDUSTRIAL CONTROLS SEE 3622
35921	CARBURETORS, PISTONS OR PISTON RINGS	36131	SWITCHGEAR OR APPARATUS OR POWER SWITCHGEAR ASSEMBLIES OR OTHER SWITCHING OR RUPTING 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
35993	FLEXIBLE METAL HOSE OR TUBING EXC. FLEXIBLE CONDUIT SEE 36442	3621	MOTORS OR GENERATORS
35994	AMUSEMENT OR CARNIVAL MACHINES OR EQUIPMENT EXC. COIN OPERATED SEE 39992	36211	MOTORS
35999	MACHINERY OR PARTS, NEC EXC. ELECTRICAL SEE 36 CARBURETORS, PISTONS, RINGS OR VALVES SEE 13592	36212	GENERATORS EXC. FOR LAND TRANSPORTATION SEE 36213
36	ELECTRICAL MACHINERY, EQUIPMENT OR SUPPLIES	36213	LAND TRANSPORTATION MOTORS, GENERATORS OR CONTROL EQUIPMENT OR PARTS
361	ELECTRICAL TRANSMISSION OR DISTRIBUTION	36214	PRIME MOVER GENERATOR SETS EXC. STEAM OR HYDRAULIC TURBINE SEE 35112
3611	ELECTRICAL MEASURING INSTRUMENTS OR TEST EQUIPMENT		

36215	MOTOR GENERATOR SETS, ELECTRIC	36332	OTHER HOUSEHOLD LAUNDRY EQUIPMENT, IRONING MACHINES, WRINGERS, OR PARTS
36216	PARTS OR SUPPLIES FOR MOTORS, GENERATORS OR MOTOR GENERATOR SETS LAND TRANSPORTATION SEE 36213	3634	ELECTRIC HOUSEWARES OR FANS
36219	MOTORS OR GENERATORS,	36341	ELECTRIC FANS EXC. ATTIC FANS, OR COMMERCIAL OR INDUSTRIAL EXHAUST OR VENTILATING FANS OR ERS SEE 35641
3622	INDUSTRIAL CONTROLS OR PARTS	36343	SMALL ELECTRIC COOKING HEATING APPLIANCES EXC. WATER HEATERS SEE 36392
36221	INDUSTRIAL CONTROLS OR PARTS	36346	SMALL HOUSEHOLD ELECTRIC APPLIANCES, ATTACHMENTS OR PARTS EXC. COOKING OR HEATING APPLIANCES SEE 36343 OR FANS SEE 36341
3623	WELDING APPARATUS	36347	PERSONAL ELECTRIC APPLIANCES, ATTACHMENTS OR PARTS, VIZ. DRY SHAVERS, MANICURE SETS, PORTABLE HAIRDRIERS, RAZORS, BRUSHES, ETC.
36231	ARC OR RESISTANCE MACHINES, COMPONENTS OR ACCESSORIES EXC. ELEC TRODES SEE 36232	36349	ELECTRIC HOUSEWARES, ELECTRIC CAN OPENERS, KNIFE SHARPENERS, VAPORIZERS, ETC.
36232	ARC WELDING ELECTRODES EXC. CARBON ELECTRODES SEE 36241	3635	HOUSEHOLD VACUUM
3624	CARBON OR GRAPHITE PRODUCTS FOR ELECTRICAL APPLICATION, OR CARBON ELECTRODES	36351	HOUSEHOLD VACUUM CLEANERS, PARTS OR
36241	CARBON OR GRAPHITE PRODUCTS FOR ELECTRICAL APPLICATION, OR CARBON ELECTRODES	3636	SEWING MACHINES OR PARTS EXC. CASES OR CABINETS SEPARATELY SEE 2517
3629	MISCELLANEOUS ELECTRICAL INDUSTRIAL APPARATUS	36361	SEWING MACHINES OR PARTS EXC. CASES OR CABINETS SEPARATELY SEE 25179
36291	CAPACITORS FOR USE EXC. FOR ELECTRONIC APPLICATION SEE 36791	3639	MISCELLANEOUS HOUSEHOLD APPLIANCES
36292	RECTIFYING APPARATUS OR PARTS	36392	WATER HEATERS, ALL TYPES
36299	ELECTRICAL INDUSTRIAL APPARATUS, NEC	36393	HOUSEHOLD DISHWASHING MACHINES
363	HOUSEHOLD APPLIANCES	36399	HOUSEHOLD APPLIANCES, NEC, FLOOR WAXING OR POLISHING MACHINES, FOOD DISPOSERS OR OTHER HOUSEHOLD SERVICE MACHINES
3631	HOUSEHOLD COOKING EQUIPMENT, ALL TYPES EXC. SMALL COOKING APPLIANCES SEE 3634	364	ELECTRIC LIGHTING OR EQUIPMENT
36311	HOUSEHOLD RANGES, OVENS OR SURFACE COOKING MENT, OR PARTS, ALL	3641	ELECTRIC LAMPS (BULBS ONLY)
3632	HOUSEHOLD REFRIGERATORS OR HOME OR FARM ALL TYPES		
36321	HOUSEHOLD REFRIGERATORS OR HOME OR FARM ALL TYPES		
3633	HOUSEHOLD LAUNDRY EQUIPMENT		
36331	HOUSEHOLD WASHING MACHINES OR DRYERS OR WASHER-DRYER OR PARTS		

36411	ELECTRIC LAMPS (BULBS ONLY) OR SEALED BEAM LAMPS	36512	HOUSEHOLD TELEVISION RECEIVERS OR TELEVISION COMBINATIONS
3642	LIGHTING FIXTURES	3652	PHONOGRAPH RECORDS
36421	ELECTRIC FIXTURES, RESIDENTIAL, COMMERCIAL, INSTITUTIONAL OR INDUSTRIAL TYPE	36521	PHONOGRAPH RECORDS, RECORD BLANKS OR RECORDED TAPES
36424	VEHICULAR LIGHTING MENT, ELECTRICAL	366	COMMUNICATION EQUIPMENT
36425	OUTDOOR, AREA OR FLOOD LIGHTING EQUIPMENT, ALL TYPES	3661	TELEPHONE OR TELEGRAPH EQUIPMENT
36429	LIGHTING FIXTURES OR PARTS, NEC, FLASHLIGHTS, LANTERNS, MINERS LIGHTS, EMERGENCY WARNING MERCURY OR SODIUM VAPOR LIGHTING OR RELATED EQUIPMENT	36611	TELEPHONE SWITCHING OR SWITCHBOARD EQUIPMENT
3643	CURRENT CARRYING WIRE DEVICES OR LIGHTNING	36612	TELEPHONE OR TELEGRAPH EQUIPMENT EXC. SWITCHING OR SWITCHBOARD EQUIPMENT SEE 36611
36432	CONVENIENCE OR POWER OUTLETS OR SOCKETS	3662	RADIO OR TELEVISION SMITTING EQUIPMENT OR APPARATUS, OR SIGNALING OR DETECTION EQUIPMENT APPARATUS
36433	SWITCHES EXC. KNIFE, TIME, SOLENOID OR TIVE SEE 36131	36621	RADIO, TELEVISION TRANSMITTING, SIGNALING OR DETECTION EQUIPMENT OR APPARATUS
36434	LIGHTNING RODS	367	ELECTRONIC COMPONENTS OR ACCESSORIES
36435	OVERHEAD TROLLEY LINE MATERIAL EXC. POLES, OR CABLE, POLE LINE WARE, EXPANSION SHELLS PLUGS FOR ROOF BOLTING MINES SEE 36441	3671	ELECTRONIC TUBES EXC. X-RAY TUBES SEE 3693
36439	CURRENT CARRYING WIRE DEVICES, NEC	36711	ELECTRONIC TUBES EXC. X-RAY TUBES SEE 36931
3644	NONCURRENT CARRYING WIRING DEVICES	3674	SOLID STATE DEVICES
36441	POLE LINE OR HARDWARE	36741	SOLID STATE DEVICES, DIODES, TORS OR CELLS
36442	ELECTRIC OR FLEXIBLE CONDUITS OR CONDUIT FITTINGS	3679	MISCELLANEOUS ELECTRONIC
36449	NONCURRENT CARRYING WIRING DEVICES, NEC	36791	MISCELLANEOUS ELECTRONIC COMPONENTS OR
365	RADIO OR TELEVISION RECEIVING SETS EXC. COMMUNICATION TYPES SEE 366	369	MISCELLANEOUS ELECTRICAL MACHINERY, EQUIPMENT OR SUPPLIES
3651	RADIO OR TELEVISION RECEIVING SETS EXC. COMMUNICATION TYPES SEE 3662	3691	STORAGE BATTERIES OR PLATES
36511	HOUSEHOLD OR AUTOMOTIVE RADIOS OR COMBINATIONS	36911	STORAGE BATTERIES OR PLATES
		3692	PRIMARY BATTERIES (DRY WET)
		36921	PRIMARY BATTERIES (DRY WET)
		3693	RADIOGRAPHIC X-RAY, ROSCOPIC X-RAY, TIC X-RAY OR OTHER X- RAY APPARATUS, OR X-RAY

36931	RADIOGRAPHIC X-RAY, ROSCOPIIC X-RAY, TIC X-RAY OR OTHER X-RAY APPARATUS, OR X-RAY	37144	MOTOR CAR INTERNAL COMBUSTION ENGINES OR PARTS EXC. AIRCRAFT OR MISSILE ENGINES OR PARTS SEE 37221-37222 OR OTHER MOTOR VEHICLE INTERNAL COMBUSTION ENGINES OR see STCC 6001-AJ FOR FULL DESCRIPTION
3694	ELECTRICAL EQUIPMENT FOR INTERNAL COMBUSTION ENGINES		
36941	ELECTRICAL EQUIPMENT FOR INTERNAL COMBUSTION ENGINES		
3699	ELECTRICAL MACHINERY, EQUIPMENT OR SUPPLIES, NEC	37145	MOTOR VEHICLE BRAKES OR PARTS
36999	ELECTRICAL MACHINERY, EQUIPMENT OR SUPPLIES, NEC, OR LAMP BULB COMPONENTS, EXC. GLASS BLANKS SEE 32292	37146	MOTOR VEHICLE STEERING GEARS OR PARTS
37	TRANSPORTATION EQUIPMENT	37147	MOTOR VEHICLE BODY PARTS
371	MOTOR VEHICLES OR EQUIPMENT	37148	MOTOR VEHICLE WHEELS OR PARTS
3711	MOTOR VEHICLES	37149	MOTOR VEHICLE OR PARTS, NEC, INCLUDING MIXED LOADS
37111	MOTOR PASSENGER OR AIR CARS, ASSEMBLED	3715	TRUCK TRAILERS
37112	MOTOR TRUCKS OR TRUCK TRACTORS, ASSEMBLED	37151	TRUCK TRAILERS
37113	MOTOR COACHES, TROLLEY BUSES OR FIRE VEHICLES, ASSEMBLED EXC. CHEMICAL FIRE ING EQUIPMENT OR PARTS SEE 39991	372	AIRCRAFT OR PARTS
37114	MOTOR COMBAT VEHICLES EXC. TRACKED SEE 9313	3721	AIRCRAFT EXC. GUIDED MISSILES, ASSEMBLED, SEE 1925
37115	MOTOR PASSENGER CARS OR CAR CHASSIS, KNOCKED	37211	COMPLETE MILITARY AIRCRAFT
37116	MOTOR BUSES, TRUCKS, MOTOR COACHES, FIRE DE PARTMENT VEHICLES OR TRUCK TRACTORS, OR CHAS SIS, KNOCKED DOWN	37213	COMPLETE COMMERCIAL, PERSONAL OR UTILITY TYPE TRANSPORT AIRCRAFT (PASSENGER OR CARGO)
37119	MOTOR VEHICLES, NEC, OR GOLF CARTS	3722	AIRCRAFT, MISSILE OR SPACE VEHICLE ENGINES OR PARTS
3712	PASSENGER MOTOR CAR BODIES	37221	AIRCRAFT ENGINES OR
37121	PASSENGER MOTOR CAR BODIES	37222	MISSILE OR SPACE VEHICLE ENGINES OR PARTS
3713	MOTOR BUS OR TRUCK	3723	AIRCRAFT PROPELLERS OR PROPELLER PARTS
37131	MOTOR TRUCK BODIES	37231	AIRCRAFT PROPELLERS OR PARTS
37132	MOTOR BUS BODIES	3729	MISCELLANEOUS AIRCRAFT PARTS OR EQUIPMENT, NEC
3714	MOTOR VEHICLE PARTS OR ACCESSORIES	37299	AIRCRAFT PARTS, NEC, OR AUXILIARY EQUIPMENT, NEC
37142	MOTOR VEHICLE	373	SHIPS OR BOATS
37143	MOTOR VEHICLE FRAMES	3732	SHIPS OR BOATS
		37321	INBOARD MOTOR BOATS
		37322	OUTBOARD MOTOR BOATS
		37323	NONPROPELLED SHIPS ES OR DREDGES)

37324	CAR FLOATS, PONTOON OR PORTABLE BRIDGES	37691	GUIDED MISSILE OR SPACE VEHICLE PARTS, NEC, OR AUXILIARY EQUIPMENT
37329	SHIPS, BOATS OR PARTS, NEC	379	MISCELLANEOUS TION EQUIPMENT
374	RAILROAD EQUIPMENT	3791	TRAILER COACHES
3741	LOCOMOTIVES OR PARTS	37911	TRAILER COACHES, HOUSING TYPE
37411	LOCOMOTIVES OR TENDERS	37912	TRAVEL TRAILERS OR CAMPERS
37413	PARTS FOR LOCOMOTIVES, ALL TYPES	3799	TRANSPORTATION NEC
3742	RAILROAD OR STREET CARS EXC. RAILWAY MAINTENANCE MACHINERY, EQUIPMENT OR PARTS SEE 3531	37992	HORSE-DRAWN OR SIMILAR VEHICLES EXC. SLEIGHS OR SLEDS SEE 37995
37421	PASSENGER TRAIN CARS	37993	HAND CARTS, WAGONS, WHEELBARROWS, OR PARTS
37422	FREIGHT TRAIN CARS	37994	HORSE-DRAWN OR SIMILAR VEHICLE PARTS EXC. OR SLED PARTS SEE 37995
37423	STREET CARS OR SELF-PROPELLED RAILROAD CARS	37995	SLEIGHS, SLEDS OR PARTS, HORSE-DRAWN
37424	MAINTENANCE OR REPAIR CARS VIZ. WEED BURNERS, INSPECTION, ETC.	37999	TRANSPORTATION PARTS OR ACCESSORIES, EXC. INDUSTRIAL TRUCKS, TRACTORS, TRAILERS OR STACKERS OR PARTS SEE 35371 OR 35372
37426	RAILROAD CAR WHEELS	38	INSTRUMENTS, GOODS, OPTICAL GOODS, WATCHES OR CLOCKS
37428	PARTS OR ACCESSORIES FOR RAILROAD OR STREET CARS EXC. WHEELS SEE 37426	381	ENGINEERING, LABORATORY OR SCIENTIFIC
37429	PARTS OR ACCESSORIES FOR RAILROAD OR STREET CARS EXC. WHEELS SEE 37426	3811	ENGINEERING, LABORATORY OR SCIENTIFIC
375	MOTORCYCLES, BICYCLES OR PARTS	38111	AIRCRAFT FLIGHT, OR NAVIGATIONAL INSTRUMENTS, OR AUTOMATIC PILOTS
3751	MOTORCYCLES, BICYCLES OR PARTS EXC. VELOCIPEDES, TRICYCLES OR PARTS SEE 3943	38112	SURVEYING OR DRAFTING INSTRUMENTS
37511	MOTORBIKES, MOTORCYCLES, MOTORSCOOTERS OR BODIES, CHASSIS OR SIDE CARS	38113	LABORATORY OR SCIENTIFIC INSTRUMENTS, OR RY FURNITURE
37512	BICYCLES	38119	ENGINEERING, LABORATORY OR SCIENTIFIC INSTRUMENTS, NEC
37513	PARTS OR ACCESSORIES, BICYCLE, MOTORBIKE, MOTORCYCLE OR MOTORSCOOTER	382	MEASURING, CONTROLLING INDICATING INSTRUMENTS
376	GUIDED MISSILE OR SPACE VEHICLE PARTS, NEC, OR AUXILIARY EQUIPMENT	3821	MECHANICAL MEASURING OR CONTROLLING INSTRUMENTS EXC. AUTOMATIC TEMPERATURE CONTROLS SEE 3822
3769	GUIDED MISSILE OR SPACE VEHICLE PARTS, NEC, OR AUXILIARY EQUIPMENT	38212	GAS, WATER OR OTHER LIQUID METERS OR RECORDING DEVICES

38213	WEATHER MEASURING MENTS OR GAUGES	38612	PHOTOGRAPHIC DEVELOPING, PHOTOCOPY, MICROFILMING, BLUEPRINTING, VAN DYKEWHITE PRINTING EQUIPMENT
38219	MECHANICAL MEASURING OR CONTROLLING INSTRUMENTS, NEC	38613	STILL OR MOTION PICTURE EQUIPMENT, FILM OR PARTS
3822	AUTOMATIC TEMPERATURE CONTROLS	38615	PHOTOGRAPHIC SENSITIZED FILM, PLATES, IC PAPER OR CLOTH
38221	AUTOMATIC TEMPERATURE CONTROLS	38618	PREPARED PHOTOGRAPHIC CHEMICALS
383	OPTICAL INSTRUMENTS OR LENSES	38619	PHOTOGRAPHIC EQUIPMENTSUPPLIES, NEC
3831	OPTICAL INSTRUMENTS OR LENSES	387	WATCHES, CLOCKS, CLOCK-WORK OPERATED DEVICES, PARTS
38311	OPTICAL INSTRUMENTS, LENSES, RANGE OR HEIGHT FINDERS EXC. SIGHT OR FIRE CONTROL EQUIPMENT SEE 19411	3871	WATCHES, CLOCKS, CLOCK-WORK OPERATED DEVICES, PARTS
384	SURGICAL, MEDICAL OR DENTAL INSTRUMENTS OR SUPPLIES	38711	WATCHES, CLOCKS, CLOCK-WORK OPERATED DEVICES, PARTS
3841	SURGICAL OR MEDICAL INSTRUMENTS OR APPARATUS	39	MISCELLANEOUS PRODUCTS
38411	SURGICAL OR MEDICAL INSTRUMENTS OR APPARATUS	391	MANUFACTURINGJEWELRY, SILVERWARE OR PLATED WARE
38412	HOSPITAL, DENTAL, OPTICIANS OR OPERATING ROOM FURNITURE EXC. HOSPITAL BEDS SEE 25991	3914	SILVERWARE OR PLATED
3842	ORTHOPEDIC, PROSTHETIC SURGICAL SUPPLIES OR APPLIANCES	39141	SILVERWARE, PLATED WARE, STAINLESS STEEL WARE OR FLATWARE
38421	ORTHOPEDIC, PROSTHETIC SURGICAL SUPPLIES OR APPLIANCES	393	MUSICAL INSTRUMENTS OR PARTS
3843	DENTAL EQUIPMENT OR SUPPLIES	3931	MUSICAL INSTRUMENTS OR PARTS
38431	DENTAL INSTRUMENTS, SUPPLIES OR EQUIPMENT	39311	PIANOS
385	OPHTHALMIC OR OPTICIANS GOODS	39312	ORGANS
3851	OPHTHALMIC OR OPTICIANS GOODS	39313	PIANO OR ORGAN PARTS
38511	SPECTACLES, EYEGASSES, SUNGLASSES OR RELATED OPTHALMIC OR OPTICIANS GOODS EXC. OPTICAL INSTRUMENTS OR LENSES SEE 38311	39319	MUSICAL INSTRUMENTS, ACCESSORIES OR PARTS INSTRUMENT BENCHES SEE 25112 OR INSTRUMENT SEE 31611
386	PHOTOGRAPHIC EQUIPMENT SUPPLIES	394	TOYS, AMUSEMENT, OR ATHLETIC GOODS
3861	PHOTOGRAPHIC EQUIPMENTSUPPLIES	3941	GAMES OR TOYS EXC. DOLLS OR STUFFED TOY ANIMALS SEE 3942, CHILDRENS CLES SEE 3943
		39411	GAMES OR TOYS EXC. DOLLS OR STUFFED TOY ANIMALS SEE 39421, CHILDRENS VEHICLES SEE 39431-39439
		3942	DOLLS OR STUFFED TOY ANIMALS

39421	DOLLS OR STUFFED TOY ANIMALS	396	COSTUME JEWELRY, NOVELTIES OR NOTIONS
3943	CHILDRENS VEHICLES OR PARTS, NEC EXC. BICYCLES OR MOTORCYCLES, OR PARTS SEE 3751	3961	COSTUME JEWELRY OR TIES EXC. PRECIOUS METAL SEE 3911
39431	BABY OR DOLL CARRIAGES, STROLLERS OR WALKERS	39611	COSTUME JEWELRY OR TIES EXC. PRECIOUS METAL SEE 39111
39439	CHILDRENS VEHICLES OR PARTS, NEC EXC. BICYCLES OR MOTORCYCLES, OR PARTS SEE 37511-37513	3962	FEATHERS, PLUMES OR FICIAL OR DECORATIVE FLOWERS OR FRUITS EXC. GLASS SEE 3229
3949	SPORTING OR ATHLETIC GOODS	39621	FEATHERS, PLUMES OR ARTIFICIAL, DECORATIVE OR PRESERVED FLOWERS OR FRUITS EXC. GLASS SEE 32299, DECORATIVE EVERGREENS, HOLLY OR MISTLETOE, OR FERNS, OR LIVE see STCC 6001-AJ FOR FULL DESCRIPTION
39491	FISHING TACKLE, EQUIPMENT OR PARTS	3963	BUTTONS
39492	BILLIARD OR POOL TABLES, PLAYING SUPPLIES, BALLS, CUE OR PARTS	39631	BUTTONS OR PARTS EXC. PRECIOUS OR METALS OR PRECIOUS OR SEMI-PRECIOUS STONES
39493	BOWLING ALLEYS, BALLS, SUPPLIES, OR PARTS	3964	NEEDLES, PINS, HOOKS, EYES OR SIMILAR NOTIONS
39494	GOLF CLUBS, BALLS, MENT, SUPPLIES OR PARTS	39641	ZIPPERS OR SLIDE FASTENERS
39496	TENNIS, BADMINTON, BASEBALL, CRICKET, SOFTBALL, FOOTBALL, BASKETBALL, SOCCER OR HOCKEY EQUIPMENT, SUPPLIES, PARTS, BALLS	39642	NEEDLES, PINS, FASTENERS OR SIMILAR NOTIONS EXC. SLIDE FASTENERS SEE 39641
39497	PLAYGROUND OR GYMNASIUM EQUIPMENT OR PARTS	399	MISCELLANEOUS MANUFACTURED PRODUCTS
39499	SPORTING OR ATHLETIC GOODS OR PARTS, NEC	3991	BROOMS OR BRUSHES FOR CARPET SWEEPERS, VACUUM CLEANERS OR OTHER ROTARY MACHINES, OR PAINT ROLLERS
395	PENS, PENCILS, OR OTHER OFFICE MATERIALS, OR ARTISTS MATERIALS	39911	BROOMS OR BRUSHES FOR CARPET SWEEPERS, VACUUM CLEANERS OR OTHER ROTARY MACHINES, OR PAINT ROLLERS
3951	PENS OR PARTS	3992	COVERINGS, FACING OR FLOORING
39511	PENS OR PARTS	39921	COVERINGS, FACING OR FLOORING
3952	PENCILS, CRAYONS, OR ARTISTS MATERIALS	3993	SIGNS OR ADVERTISING DISPLAYS
39521	PENCILS OR CRAYONS	39931	LUMINOUS TUBING OR BULB SIGNS
39522	ARTISTS MATERIALS	39932	NONELECTRIC ADVERTISING SIGNS, DISPLAYS OR TIES EXC. ROAD OR SIGNS SEE 39934 OR PAPER OR PAPERBOARD DISPLAYS OR NOVELTIES SEE 26499
3953	MARKING DEVICES		
39531	MARKING DEVICES		
3955	CARBON PAPER OR INKED RIBBONS		
39551	CARBON OR STENCIL PAPER OR INK RIBBONS		

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

41114	ARTICLES, USED EXC. REPAIR OR RECONDITIONING SEE 41115, RETURNED PTY SEE 42111 OR 142112 OR REMELTING SEE 402 1 OR 4029	42113	NONREVENUE REJECTED SHIPMENTS
41115	ARTICLES, USED, RETURNED FOR REPAIR OR RECONDITIONING	422	TRAILERS, RETURNED EMPTY
41116	HOUSEHOLD GOODS OR EMIGRANT MOVABLES	4221	TRAILERS, RETURNED EMPTY
41117	MILITARY IMPEDIMENTA	42211	TRAILERS, SEMI-TRAILERS, OR CONTAINERS, RETURNED EMPTY
41118	USED VEHICLES	423	REVENUE MOVEMENT OF CONTAINERS, CARRIERS OR DEVICES, SHIPPING, RETURNING IN REVERSE OF ROUTE USED IN LOADED MOVEMENT, AND SO CERTIFIED
41119	MISCELLANEOUS FREIGHT SHIPMENTS, NEC	4231	REVENUE MOVEMENT OF CONTAINERS, CARRIERS OR DEVICES, SHIPPING, RETURNING IN REVERSE OF ROUTE USED IN LOADED MOVEMENT, AND SO CERTIFIED
412	SPECIAL COMMODITIES NOT TAKEN IN REGULAR FREIGHT SERVICE	42311	REVENUE MOVEMENT OF CONTAINERS, BAGS, BARRELS, BOTTLES, BOXES, CRATES, CORES, DRUMS, KEGS, REELS, TUBES, OR CARRIERS, NEC, EMPTY, RETURNING IN REVERSE OF ROUTE see STCC 6001-AJ FOR FULL DESCRIPTION
4121	SPECIAL COMMODITIES NOT TAKEN IN REGULAR FREIGHT SERVICE	42312	REVENUE MOVEMENT OF PIPING DEVICES, CONSISTING OF BLOCKING, BOLSTERS, CRADLES, PALLETS, RACKS, SKIDS, ETC. , EMPTY,
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 CERTI- FIED	4311	MAIL AND EXPRESS TRAFFIC
4211	NONREVENUE MOVEMENT OF CONTAINERS, CARRIERS OR DEVICES, SHIPPING, RETURNING IN REVERSE OF ROUTE USED IN LOADED MOVEMENT, AND SO CERTIFIED	43111	MAIL
42111	NONREVENUE MOVEMENT OF CONTAINERS, BAGS, BARRELS, BOTTLES, BOXES, CRATES, CORES, DRUMS, KEGS, REELS, TUBES, OR CARRIERS, NEC, EMPTY, RETURNING IN REVERSE OF see STCC 6001-AJ FOR FULL DESCRIPTION	43115	EXPRESS
42112	NONREVENUE MOVEMENT OF SHIPPING DEVICES, CONSISTING OF BLOCKING, BOLSTERS, CRADLES, PALLETS, RACKS, SKIDS, EMPTY, RETURNING IN REVERSE OF ROUTE USED IN see STCC 6001-AJ FOR FULL DESCRIPTION	432	OTHER CONTRACT TRAFFIC
		4321	OTHER CONTRACT TRAFFIC
		43211	TRAILER TRAIN CONTRACT TRAFFIC
		44	FREIGHT FORWARDER
		441	FREIGHT FORWARDER
		4411	FREIGHT FORWARDER
		44111	FREIGHT FORWARDER
		45	SHIPPER ASSOCIATION OR SIMILAR TRAFFIC

451	SHIPPER ASSOCIATION OR SIMILAR TRAFFIC	4711	SMALL PACKAGED FREIGHT SHIPMENTS
4511	SHIPPER ASSOCIATION OR SIMILAR TRAFFIC	47111	SMALL PACKAGED FREIGHT SHIPMENTS VIZ. LESS THAN CARLOAD, TRUCKLOAD, ETC.
45111	SHIPPER ASSOCIATION OR SIMILAR TRAFFIC	48	WASTE HAZARDOUS OR WASTE HAZARDOUS SUBSTANCES
46	MISCELLANEOUS MIXED SHIPMENTS	4804	WASTE NONFLAMMABLE COMPRESSED GASES
461	MISCELLANEOUS MIXED SHIPMENTS EXC. FORWARDER SEE 441, OR SHIPPER ASSOCIATION SEE 451	48041	WASTE NONFLAMMABLE COMPRESSED GASES
4611	MISCELLANEOUS MIXED MENTS, NEC EXC. SEE 4411, OR SHIPPER ASSOCIATION SEE 4511	48045	WASTE NONFLAMMABLE COMPRESSED GASES
46111	ALL FREIGHT RATE SHIP MENTS, NEC, OR TRAILER-ON-FLAT-CAR (TOFC) SHIPMENTS EXC. WHERE IDENTIFIED BY COMMODITY RETURNING IN REVERSE OF ROUTE USED IN LOADED see STCC 6001-AJ FOR FULL DESCRIPTION	4805	WASTE FLAMMABLE COMPRESSED GASES
		48057	WASTE FLAMMABLE COMPRESSED GASES
		48058	WASTE FLAMMABLE COMPRESSED GASES
462	MIXED SHIPMENTS, 2 OR MORE MAJOR GROUPS VIZ. COMMODITIES REPRESENTING TWO OR MORE MAJOR STCC GROUPS, WHERE IT IS IMPOSSIBLE TO DETERMINE PREDOMINANT GROUP, FOR see STCC 6001-AJ FOR FULL DESCRIPTION	4806	WASTE FLAMMABLE LIQUIDS
		48066	WASTE FLAMMABLE LIQUIDS THERMALLY UNSTABLE AND CORROSIVE
		4807	WASTE FLAMMABLE LIQUIDS
		48072	WASTE FLAMMABLE LIQUIDS POLYMERIZABLE
4621	MIXED SHIPMENTS, 2 OR MORE MAJOR GROUPS VIZ. COMMODITIES REPRESENTING TWO OR MORE MAJOR STCC GROUPS, WHERE IT IS IM- POSSIBLE TO DETERMINE PREDOMINANT GROUP, FOR see STCC 6001-AJ FOR FULL DESCRIPTION	48074	WASTE FLAMMABLE LIQUIDS POISONOUS
		48078	WASTE FLAMMABLE LIQUIDS CORROSIVE, BASIC
		4808	WASTE FLAMMABLE LIQUIDS
		48081	WASTE FLAMMABLE LIQUIDS
		48082	WASTE FLAMMABLE LIQUIDS
		4809	WASTE FLAMMABLE LIQUIDS
		48091	WASTE FLAMMABLE LIQUIDS
		48092	WASTE FLAMMABLE LIQUIDS
		48093	WASTE FLAMMABLE LIQUIDS
46211	MIXED SHIPMENTS, 2 OR MORE MAJOR GROUPS VIZ. COMMODITIES REPRESENTING TWO OR MORE MAJ OR STCC GROUPS, WHERE IT IS IMPOSSIBLE TO DETERMINE THE PREDOMINANT GROUP, FOR EXAMPLE, FURNITURE, MAJOR 25 AND BICYCLES, MAJOR 37, MIXED. SEE STCC 6001-AJ FOR FULL DESCRIPTION	4810	WASTE FLAMMABLE LIQUIDS, MISCELLANEOUS
47	SMALL PACKAGED FREIGHT SHIPMENTS	48101	WASTE FLAMMABLE LIQUIDS, MISCELLANEOUS
471	SMALL PACKAGED FREIGHT SHIPMENTS	48102	WASTE FLAMMABLE LIQUIDS, MISCELLANEOUS

48103	WASTE FLAMMABLE LIQUIDS, MISCELLANEOUS	48212	WASTE POISONOUS
48105	WASTE FLAMMABLE LIQUIDS, MISCELLANEOUS	48214	WASTE POISONOUS
4813	WASTE COMBUSTIBLE	48215	WASTE POISONOUS
48131	WASTE COMBUSTIBLE	4823	WASTE POISONOUS
4815	WASTE COMBUSTIBLE	48231	WASTE POISONOUS
48151	WASTE COMBUSTIBLE	48232	WASTE POISONOUS
48152	WASTE COMBUSTIBLE	48233	WASTE POISONOUS
48153	WASTE COMBUSTIBLE	48234	WASTE POISONOUS
48155	WASTE COMBUSTIBLE	48235	WASTE POISONOUS
4816	WASTE FLAMMABLE SOLIDS	4825	WASTE INFECTIOUS SUBSTANCES
48161	WASTE FLAMMABLE SOLIDS SPONTANEOUSLY OR DANGEROUS WHEN WET	48259	WASTE INFECTIOUS SUBSTANCES
48162	WASTE FLAMMABLE SOLIDS SPONTANEOUSLY OR DANGEROUS WHEN WET	4826	WASTE RADIOACTIVE MATERIALS
48163	WASTE FLAMMABLE SOLIDS SPONTANEOUSLY OR DANGEROUS WHEN WET	48262	WASTE RADIOACTIVE MATERIALS
48164	WASTE FLAMMABLE SOLIDS SPONTANEOUSLY OR DANGEROUS WHEN WET	48263	WASTE RADIOACTIVE MATERIALS
48166	WASTE FLAMMABLE SOLIDS SPONTANEOUSLY OR DANGEROUS WHEN WET	4827	WASTE RADIOACTIVE MATERIALS
48167	WASTE FLAMMABLE SOLIDS SPONTANEOUSLY OR DANGEROUS WHEN WET	48272	WASTE RADIOACTIVE MATERIALS
4817	WASTE FLAMMABLE SOLIDS	48274	WASTE RADIOACTIVE MATERIALS
48171	WASTE FLAMMABLE SOLIDS SPONTANEOUSLY OR DANGEROUS WHEN WET	48277	WASTE RADIOACTIVE MATER- IALS, EMPTY CONTAINERS
48173	WASTE FLAMMABLE SOLIDS SPONTANEOUSLY OR DANGEROUS WHEN WET	4828	WASTE RADIOACTIVE MATERIALS
4818	WASTE OXIDIZING	48281	WASTE RADIOACTIVE MATERIALS
48181	WASTE OXIDIZING	48282	WASTE RADIOACTIVE MATERIALS
48183	WASTE OXIDIZING	4829	WASTE RADIOACTIVE MATERIALS
48185	WASTE OXIDIZING	48292	WASTE RADIOACTIVE MATERIALS
48187	WASTE OXIDIZING	4830	WASTE CORROSIVE
4821	WASTE POISONOUS	48300	WASTE CORROSIVE MATERI- ALS, ACIDIC, POISONOUS
		48302	WASTE CORROSIVE MATERIALS, ACIDIC
		4831	WASTE CORROSIVE
		48313	WASTE CORROSIVE
		48314	WASTE CORROSIVE
		48317	WASTE CORROSIVE
		4832	WASTE CORROSIVE
		48323	WASTE CORROSIVE
		4833	WASTE CORROSIVE
		48330	WASTE CORROSIVE

48333	WASTE CORROSIVE		48606	WASTE MISCELLANEOUS HAZARDOUS MATERIALS
4834	WASTE CORROSIVE			
48342	WASTE CORROSIVE		4861	WASTE MISCELLANEOUS HAZARDOUS MATERIALS
4835	WASTE CORROSIVE		48611	WASTE MISCELLANEOUS HAZARDOUS MATERIALS
48350	WASTE CORROSIVE		48613	WASTE MISCELLANEOUS HAZARDOUS MATERIALS
48352	WASTE CORROSIVE		48616	WASTE MISCELLANEOUS HAZARDOUS MATERIALS
48355	WASTE CORROSIVE		4862	WASTE MISCELLANEOUS HAZARDOUS MATERIALS
48356	WASTE CORROSIVE		48621	WASTE MISCELLANEOUS HAZARDOUS MATERIALS
4836	WASTE CORROSIVE		48623	WASTE MISCELLANEOUS HAZARDOUS MATERIALS
48360	WASTE CORROSIVE		48625	WASTE MISCELLANEOUS HAZARDOUS MATERIALS
48363	WASTE CORROSIVE		48626	WASTE MISCELLANEOUS HAZARDOUS MATERIALS
48365	WASTE CORROSIVE		4863	WASTE MISCELLANEOUS HAZARDOUS MATERIALS
4840	WASTE MISCELLANEOUS HAZARDOUS MATERIALS		48631	WASTE MISCELLANEOUS HAZARDOUS MATERIALS
48403	WASTE MISCELLANEOUS HAZARDOUS MATERIALS		48633	WASTE MISCELLANEOUS HAZARDOUS MATERIALS
4841	WASTE MISCELLANEOUS HAZARDOUS MATERIALS		48637	WASTE MISCELLANEOUS HAZARDOUS MATERIALS
48411	WASTE MISCELLANEOUS HAZARDOUS MATERIALS		48638	WASTE MISCELLANEOUS HAZARDOUS MATERIALS
48412	WASTE MISCELLANEOUS HAZARDOUS MATERIALS		4866	WASTE MISCELLANEOUS HAZARDOUS MATERIALS
4844	WASTE MISCELLANEOUS HAZARDOUS MATERIALS		48661	WASTE MISCELLANEOUS HAZARDOUS MATERIALS
48441	WASTE MISCELLANEOUS HAZARDOUS MATERIALS		48663	WASTE MISCELLANEOUS HAZARDOUS MATERIALS
48443	WASTE MISCELLANEOUS HAZARDOUS MATERIALS		48666	WASTE MISCELLANEOUS HAZARDOUS MATERIALS
4845	WASTE MISCELLANEOUS HAZARDOUS MATERIALS		48667	WASTE MISCELLANEOUS HAZARDOUS MATERIALS
48455	WASTE MISCELLANEOUS HAZARDOUS MATERIALS		48669	WASTE MISCELLANEOUS HAZARDOUS MATERIALS
48457	WASTE MISCELLANEOUS HAZARDOUS MATERIALS		4871	WASTE STREAM FLAMMABLE
4850	WASTE MIXED FREIGHT			
48501	WASTE MIXED FREIGHT			
4860	WASTE MISCELLANEOUS HAZARDOUS MATERIALS			
48601	WASTE MISCELLANEOUS HAZARDOUS MATERIALS			

48712 WASTE STREAM FLAMMABLE
LIQUIDS
48717 WASTE STREAM COMBUSTIBLE
LIQUIDS
4875 WASTE STREAM OTHER REGULATED

48755 WASTE STREAM OTHER REGULATED
MATERIALS
48756 WASTE STREAM OTHER REGULATED
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 1
42	Open Top Hopper Cars—General Service	All Code H
43	Open Top Hopper Cars—Special Service	All Code K, 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_, and F40_
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

Alphanumeric, report the Equipment Type Code that corresponds to the car's Mechanical Designation and special attributes.

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.

2) Cubic Feet Capacity-Actual	5	N	All
--------------------------------------	----------	----------	------------

Numeric actual, i.e., drawing dimension, inside volume of car in cubic feet—end to end, side to side, and from floor to carline.

- *Box:* 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.)

- *Gondola, Covered Hopper & Hopper:* Minimum 00400 to 08500 Maximum
Note: For covered hoppers this field must agree with Equipment Type Code.)

- *Refrigerator:* 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
---	----------	----------	------------

Note: Report zeros. If blanks are reported they will be output as zeros.

4) Tare Weight (00)	4	N	All
----------------------------	----------	----------	------------

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.

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.

- *Box:* Minimum 0160 to 1600 Maximum
- *Gondola:* Minimum 0300 to 1100 Maximum
- *Covered Hopper and Hopper:* Minimum 0230 to 1200 Maximum
- *Refrigerator:* 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
--	----------	----------	------------

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
---	----------	----------	------------

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
------------------	----------	----------	------------

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 nbr. artic. Units) + 2.

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

(For ARTICULATION see Section VII).

<u>Axle Code</u>	<u>Axles per Car</u>	<u>Axle Code</u>	<u>Axles per Car</u>	<u>Axle Code</u>	<u>Axles per Car</u>	<u>Axle Code</u>	<u>Axles per Car</u>
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 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

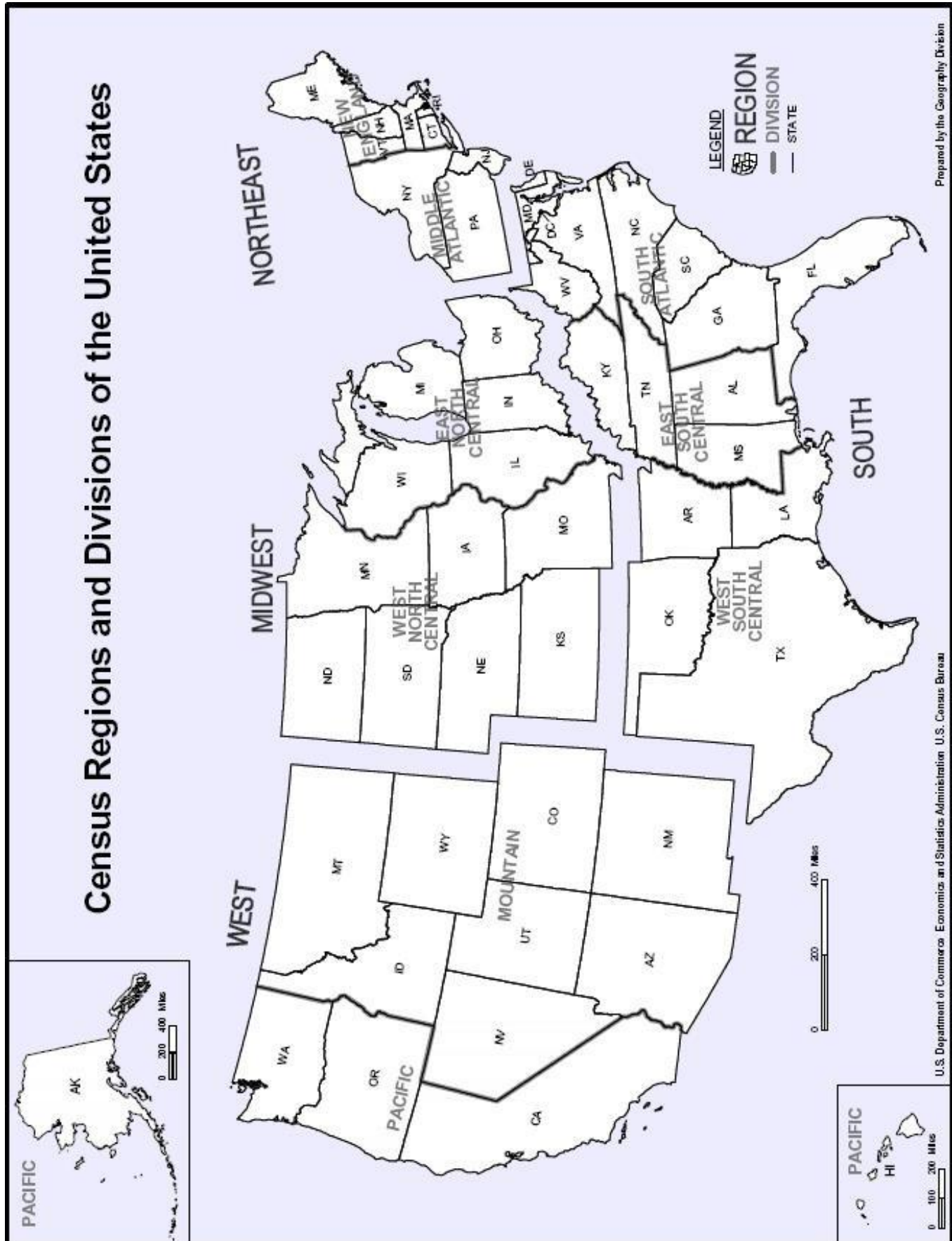
The current equipment type codes and descriptions can be viewed on Railinc's website at Railinc.com.

<https://www.railinc.com/rportal/umlerreferences>

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) Kansas (20) Minnesota (27) Missouri (29)	Nebraska (31) North Dakota (38) South Dakota (46)
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) Colorado (08) Idaho (16) New Mexico (35)	Montana (30) Utah (49) Nevada (32) Wyoming (56)	Division 9: Pacific Alaska (02) California (06) Hawaii (15) Oregon (41) Washington (53)
<p><i>*Prior to June 1984, the Midwest Region was designated as the North Central Region.</i></p>		

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. U.S 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 2016 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 2016 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 C and a detailed document is also available from Railinc. The messages from the TRAIN II system are stored in the Event Repository (ER).

Because 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 2016 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 were a total of 649,772 waybills submitted for the 2016 STB Waybill Sample:

Table 5-1. Three Step Methodology

Three Step Methodology	Count	Percent of Total
Match Waybill Data To Railinc Event Data	541,800	83.38%
Pattern Matching	45,636	7.02%
Enhanced Waybill Routing Logic	62,336	9.59%
Total	649,772	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 2016. 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	Perc
Natural Match	Natural Match	362,516	66.91%
Natural Match	Location Match	20,423	3.77%
Natural Match	Approximate Match	67,116	12.39%
Location Match	Natural Match	15,009	2.77%
Location Match	Location Match	1,946	0.36%
Location Match	Approximate Match	3,132	0.58%
Approximate Match	Natural Match	57,308	10.58%
Approximate Match	Location Match	2,529	0.47%
Approximate Match	Approximate Match	11,821	2.18%
Total		541,800	100%

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	14FEB16:16:24	ARIL	Railroad #1		1TX, US	0
SOT Natural Match	14FEB16:16:29	ICHR	Railroad #1	Railroad #2	1TX, US	1
SOT Location Match	14FEB16:16:29	ICHD	Railroad #1	Railroad #2	1TX, US	2
SOT Natural Match	14FEB16:20:00	DFLC	Railroad #2		2TX, US	3
	14FEB16:20:30	ARIL	Railroad #2		3TX, US	4
	15FEB16:08:31	DFLC	Railroad #2		4TX, US	5
EOT Natural Match	15FEB16:08:55	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 crossing 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 Step 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 locations 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 been 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 more easily facilitate regulatory oversight. 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 regards 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 cost 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 users 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 under-priced traffic which was retained in the base case. The failure to adjust rates on the under-priced 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)	
	1977-1980	1981-1994
1981		1.8
1982		2.3
1983		2.46
1984		2.81
1985		2.98
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
HARD COPY 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%	6-10
1 or 5	1 of 5	20.0%	10 or greater

TABLE 3

~~MDT SAMPLING STRATA~~

SAMPLE PERCENT	# OF CARLOADS ON WAYBILL	SAMPLING RATE
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-2) form.

TABLE 4

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

Freight Revenue	Carloads	Tons Per Car	Revenue Per Carmile
\$ 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	100	\$ 1.23
\$ 89,595	120	100	\$ 1.18
\$ 84,661	120	100	\$ 1.12
\$ 84,106	120	100	\$ 1.11
\$ 81,470	120	100	\$ 1.08
\$ 57,876	120	100	\$ 0.77
\$ 4,713	100	100	\$ 0.72
\$ 3,579	120	100	\$ 0.63
\$ 1,976	120	100	\$ 0.63
\$ 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	28.68	34.19	0.01	28.51	60.05	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 LOAD DATA AND POTENTIAL REBILLED VOLUMES SAMPLE TONNAGE AND CAR TOTALS AND REBILL PERCENTAGES

Rebill Percent of Total	Waybill Sample Total Cars	Potential Rebill Cars	Rebill Percent of Total
0.3%	18,189,281	64,297	0.35%
0.9%	17,373,740	208,971	1.20%
1.2%	19,153,156	238,110	1.24%
1.2%	18,896,039	238,516	1.26%
1.9%	18,418,596	487,499	2.65%
3.0%	19,632,555	761,552	3.88%

Year	Waybill Sample Total Tonnage	Potential Rebill Tonnage	Rebill Percent of Total
1984	1,434,453,461	4,786,593	0.3
1986	1,405,012,392	18,093,804	1.2
1988	1,580,679,998	20,799,542	1.3
1990	1,579,341,368	19,219,260	1.2
1992	1,543,389,810	26,051,117	1.6
1994	1,650,150,770	44,518,645	2.7

ARS

SOURCE: STB WAYBILL SAMPLE FOR SELECTED YEARS

TABLE 8

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

LENGTH OF HAUL BLOCK	UN. ADJUSTED	REBILL DOUBLE COUNT	LINKED REBILL	ADJUSTED	UN. ADJUSTED	REBILL DOUBLE COUNT (-)	LINKED REBILL (+)	ADJUSTED	UN. ADJUSTED 1984-1994 CHANGE	ADJUSTED 1984-1994 CHANGE
0-500	634,611	98,560	0	536,051	1,640,812	301,446	3,200	1,142,566	1,006,201	606,515
500-1000	1,377,278	274,540	5,600	1,108,338	2,312,735	790,736	52,960	1,574,959	935,457	466,621
1000-1500	624,747	112,800	44,960	556,907	1,193,780	225,160	176,000	1,144,620	569,033	387,713
1500-2000	387,380	34,400	75,200	428,180	1,220,854	230,230	118,696	1,109,320	833,474	681,140
2000-2500	871,030	132,940	13,600	731,690	2,000,518	465,400	218,166	1,753,284	1,129,488	1,021,594
2500-UP	485,013	27,840	211,180	668,353	443,338	78,400	576,664	941,602	(41,675)	273,249
TOTAL	4,380,059	701,080	350,540	4,029,519	8,812,037	2,291,372	1,145,686	7,666,351	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: 1992 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 1990

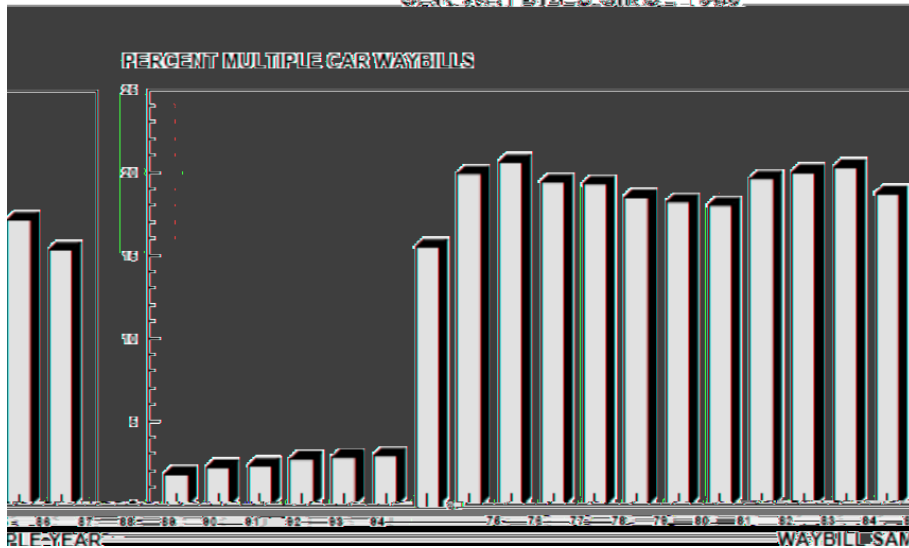
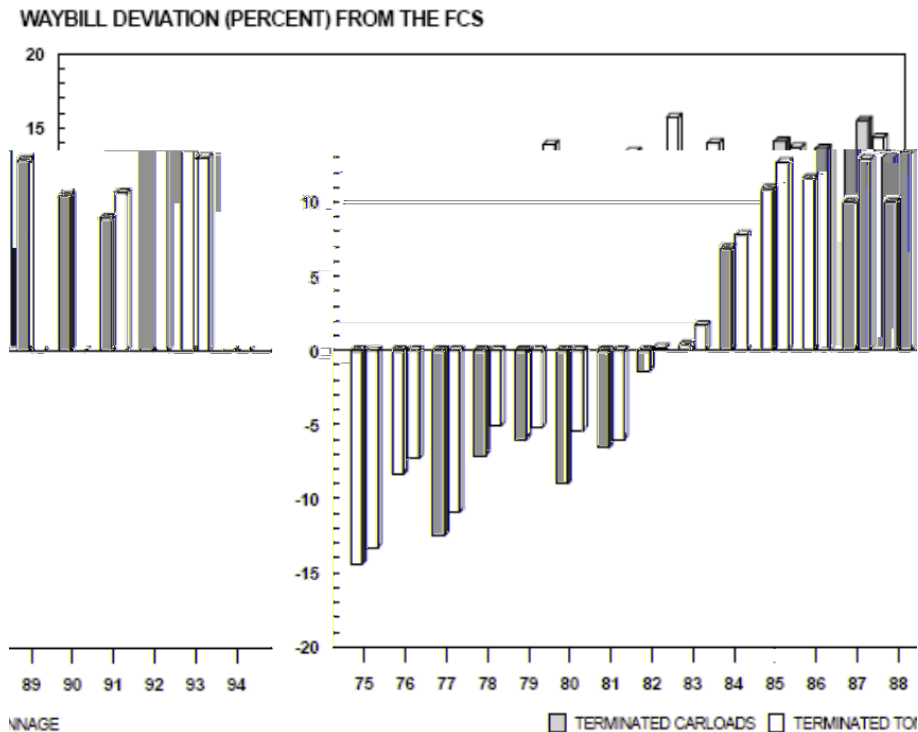


FIGURE 2

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 of 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 of 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	11FEB16:01:23	RLOD	Railroad #1	Railroad #1		CA, US
	11FEB16:10:50	PFPS	Railroad #1	Railroad #1		CA, US
	11FEB16:10:51	DFLC	Railroad #1	Railroad #1		CA, US
	11FEB16:11:50	ARIL	Railroad #1	Railroad #1		CA, US
	11FEB16:15:10	DFLC	Railroad #1	Railroad #1		CA, US
	11FEB16:22:55	ARIL	Railroad #1	Railroad #1		CA, US
	11FEB16:23:55	DFLC	Railroad #1	Railroad #1		CA, US
	12FEB16:00:45	ARIL	Railroad #1	Railroad #1		CA, US
	12FEB16:00:50	DFLC	Railroad #1	Railroad #1		CA, US
	12FEB16:01:25	ARIL	Railroad #1	Railroad #1		CA, US
	12FEB16:01:30	DFLC	Railroad #1	Railroad #1		CA, US
	12FEB16:05:40	ARIL	Railroad #1	Railroad #1		CA, US
	12FEB16:06:00	DFLC	Railroad #1	Railroad #1		CA, US
	12FEB16:06:10	ARIL	Railroad #1	Railroad #1		CA, US
	12FEB16:07:32	DFLC	Railroad #1	Railroad #1		CA, US
	12FEB16:08:05	ARIL	Railroad #1	Railroad #1		CA, US
	12FEB16:08:08	DFLC	Railroad #1	Railroad #1		CA, US
	12FEB16:15:00	ARIL	Railroad #1	Railroad #1		AZ, US
	12FEB16:17:10	DFLC	Railroad #1	Railroad #1		AZ, US
	12FEB16:17:30	ARIL	Railroad #1	Railroad #1		AZ, US
	12FEB16:18:58	DFLC	Railroad #1	Railroad #1		AZ, US
	12FEB16:20:03	ARIL	Railroad #1	Railroad #1		AZ, US
	12FEB16:20:05	DFLC	Railroad #1	Railroad #1		AZ, US
	12FEB16:22:53	ARIL	Railroad #1	Railroad #1		AZ, US
	12FEB16:23:01	DFLC	Railroad #1	Railroad #1		AZ, US
	13FEB16:03:29	ARIL	Railroad #1	Railroad #1		AZ, US
	13FEB16:05:14	DFLC	Railroad #1	Railroad #1		AZ, US
	13FEB16:06:34	ARIL	Railroad #1	Railroad #1		NM, US
	13FEB16:06:39	DFLC	Railroad #1	Railroad #1		NM, US
	13FEB16:08:49	ARIL	Railroad #1	Railroad #1		NM, US
	13FEB16:10:50	DFLC	Railroad #1	Railroad #1		NM, US
	13FEB16:14:11	ARIL	Railroad #1	Railroad #1		NM, US
	13FEB16:15:41	DFLC	Railroad #1	Railroad #1		NM, US
	13FEB16:17:36	ARIL	Railroad #1	Railroad #1		NM, US
	13FEB16:17:41	DFLC	Railroad #1	Railroad #1		NM, US
	13FEB16:18:57	ARIL	Railroad #1	Railroad #1		NM, US
	13FEB16:19:32	DFLC	Railroad #1	Railroad #1		NM, US
	13FEB16:21:28	ARIL	Railroad #1	Railroad #1		NM, US
	13FEB16:21:31	DFLC	Railroad #1	Railroad #1		NM, US
	13FEB16:22:06	ARIL	Railroad #1	Railroad #1		NM, US

SOT and EOT Match	Event Timestamp	Event Type	Message Road	Message From Road	Message To Road	Location*
	13FEB16:22:08	DFLC	Railroad #1	Railroad #1		NM, US
	14FEB16:06:56	ARIL	Railroad #1	Railroad #1		NM, US
	14FEB16:07:03	DFLC	Railroad #1	Railroad #1		NM, US
	14FEB16:09:00	ARIL	Railroad #1	Railroad #1		NM, US
	14FEB16:14:30	DFLC	Railroad #1	Railroad #1		NM, US
SOT Location Match	14FEB16:16:24	ARIL	Railroad #1	Railroad #1		TX, US
SOT Natural Match	14FEB16:16:29	ICHR	Railroad #2	Railroad #1	Railroad #2	TX, US
SOT Location Match	14FEB16:16:29	ICHD	Railroad #1	Railroad #1	Railroad #2	TX, US
SOT Natural Match	14FEB16:20:00	DFLC	Railroad #2	Railroad #2		TX, US
	14FEB16:20:30	ARIL	Railroad #2	Railroad #2		TX, US
	15FEB16:08:31	DFLC	Railroad #2	Railroad #2		TX, US
	15FEB16:08:55	DFLC	Railroad #2	Railroad #2		TX, US
	15FEB16:09:33	DFLC	Railroad #2	Railroad #2		TX, US
	15FEB16:11:20	DFLC	Railroad #2	Railroad #2		TX, US
	15FEB16:12:08	DFLC	Railroad #2	Railroad #2		TX, US
	15FEB16:12:36	DFLC	Railroad #2	Railroad #2		TX, US
	15FEB16:13:00	DFLC	Railroad #2	Railroad #2		TX, US
	15FEB16:13:41	DFLC	Railroad #2	Railroad #2		TX, US
	15FEB16:13:51	ARIL	Railroad #2	Railroad #2		TX, US
	15FEB16:14:06	DFLC	Railroad #2	Railroad #2		TX, US
	15FEB16:14:11	DFLC	Railroad #2	Railroad #2		TX, US
	15FEB16:14:13	DFLC	Railroad #2	Railroad #2		TX, US
	15FEB16:15:16	DFLC	Railroad #2	Railroad #2		TX, US
	15FEB16:16:10	DFLC	Railroad #2	Railroad #2		TX, US
	15FEB16:17:00	DFLC	Railroad #2	Railroad #2		TX, US
	15FEB16:18:18	DFLC	Railroad #2	Railroad #2		TX, US
	15FEB16:18:41	ARIL	Railroad #2	Railroad #2		TX, US
	15FEB16:18:42	DFLC	Railroad #2	Railroad #2		TX, US
	15FEB16:19:17	DFLC	Railroad #2	Railroad #2		TX, US
	15FEB16:19:50	DFLC	Railroad #2	Railroad #2		TX, US
	15FEB16:19:57	DFLC	Railroad #2	Railroad #2		TX, US
	15FEB16:20:05	ARIL	Railroad #2	Railroad #2		TX, US
	15FEB16:21:03	DFLC	Railroad #2	Railroad #2		TX, US
	15FEB16:21:33	DFLC	Railroad #2	Railroad #2		TX, US
	15FEB16:23:33	DFLC	Railroad #2	Railroad #2		TX, US
	15FEB16:23:38	ARIL	Railroad #2	Railroad #2		TX, US
	15FEB16:23:46	DFLC	Railroad #2	Railroad #2		TX, US
	16FEB16:00:32	DFLC	Railroad #2	Railroad #2		TX, US
	16FEB16:01:07	DFLC	Railroad #2	Railroad #2		TX, US
	16FEB16:01:42	ARIL	Railroad #2	Railroad #2		TX, US
	16FEB16:02:04	DFLC	Railroad #2	Railroad #2		TX, US
	16FEB16:02:26	DFLC	Railroad #2	Railroad #2		TX, US

SOT and EOT Match	Event Timestamp	Event Type	Message Road	Message From Road	Message To Road	Location*
	16FEB16:02:49	ARIL	Railroad #2	Railroad #2		TX, US
	16FEB16:02:52	DFLC	Railroad #2	Railroad #2		TX, US
	16FEB16:02:53	DFLC	Railroad #2	Railroad #2		TX, US
	16FEB16:03:33	DFLC	Railroad #2	Railroad #2		TX, US
	16FEB16:04:14	DFLC	Railroad #2	Railroad #2		TX, US
	16FEB16:04:47	DFLC	Railroad #2	Railroad #2		TX, US
	16FEB16:04:49	ARIL	Railroad #2	Railroad #2		AR, US
	16FEB16:04:50	DFLC	Railroad #2	Railroad #2		AR, US
	16FEB16:05:27	DFLC	Railroad #2	Railroad #2		AR, US
	16FEB16:05:51	DFLC	Railroad #2	Railroad #2		AR, US
	16FEB16:10:26	DFLC	Railroad #2	Railroad #2		AR, US
	16FEB16:11:55	DFLC	Railroad #2	Railroad #2		AR, US
	16FEB16:13:21	DFLC	Railroad #2	Railroad #2		AR, US
	16FEB16:13:40	DFLC	Railroad #2	Railroad #2		AR, US
	16FEB16:13:53	DFLC	Railroad #2	Railroad #2		AR, US
	16FEB16:14:08	ARIL	Railroad #2	Railroad #2		AR, US
	16FEB16:17:47	DFLC	Railroad #2	Railroad #2		AR, US
	16FEB16:18:02	DFLC	Railroad #2	Railroad #2		AR, US
	16FEB16:18:15	DFLC	Railroad #2	Railroad #2		AR, US
	16FEB16:18:44	DFLC	Railroad #2	Railroad #2		AR, US
	16FEB16:19:29	ARIL	Railroad #2	Railroad #2		AR, US
	16FEB16:19:55	DFLC	Railroad #2	Railroad #2		AR, US
	16FEB16:20:29	DFLC	Railroad #2	Railroad #2		AR, US
	16FEB16:21:03	DFLC	Railroad #2	Railroad #2		AR, US
	16FEB16:21:51	DFLC	Railroad #2	Railroad #2		AR, US
	16FEB16:22:24	DFLC	Railroad #2	Railroad #2		AR, US
	16FEB16:22:53	DFLC	Railroad #2	Railroad #2		MO, US
	16FEB16:23:05	ARIL	Railroad #2	Railroad #2		MO, US
	16FEB16:23:06	DFLC	Railroad #2	Railroad #2		MO, US
	16FEB16:23:16	DFLC	Railroad #2	Railroad #2		MO, US
	17FEB16:00:07	ARIL	Railroad #2	Railroad #2		MO, US
	17FEB16:01:41	DFLC	Railroad #2	Railroad #2		MO, US
	17FEB16:02:16	DFLC	Railroad #2	Railroad #2		MO, US
	17FEB16:02:44	DFLC	Railroad #2	Railroad #2		MO, US
	17FEB16:03:20	DFLC	Railroad #2	Railroad #2		IL, US
	17FEB16:04:07	ARIL	Railroad #2	Railroad #2		IL, US
	17FEB16:04:11	DFLC	Railroad #2	Railroad #2		IL, US
	17FEB16:05:03	DFLC	Railroad #2	Railroad #2		IL, US
	17FEB16:05:47	DFLC	Railroad #2	Railroad #2		IL, US
	17FEB16:06:13	DFLC	Railroad #2	Railroad #2		IL, US
	17FEB16:09:43	ARIL	Railroad #2	Railroad #2		IL, US
	17FEB16:09:46	ICHD	Railroad #2	Railroad #2	Railroad #3	IL, US

SOT and EOT Match	Event Timestamp	Event Type	Message Road	Message From Road	Message To Road	Location*
	17FEB16:09:46	ICHR	Railroad #3	Railroad #2	Railroad #3	IL, US
	18FEB16:12:13	ICHR	Railroad #2	Railroad #3	Railroad #2	IL, US
	18FEB16:14:55	DFLC	Railroad #3	Railroad #3		IL, US
	18FEB16:15:00	ICHHD	Railroad #3	Railroad #3	Railroad #2	IL, US
	18FEB16:17:03	DFLC	Railroad #2	Railroad #2		IL, US
	18FEB16:17:36	DFLC	Railroad #2	Railroad #2		IL, US
	18FEB16:18:51	DFLC	Railroad #2	Railroad #2		IL, US
	18FEB16:19:22	DFLC	Railroad #2	Railroad #2		IL, US
	18FEB16:19:49	DFLC	Railroad #2	Railroad #2		IL, US
	18FEB16:21:58	DFLC	Railroad #2	Railroad #2		IL, US
	18FEB16:23:56	DFLC	Railroad #2	Railroad #2		IL, US
	19FEB16:00:09	ARIL	Railroad #2	Railroad #2		IL, US
	19FEB16:01:00	DFLC	Railroad #2	Railroad #2		IL, US
	19FEB16:01:39	DFLC	Railroad #2	Railroad #2		IL, US
	19FEB16:02:55	DFLC	Railroad #2	Railroad #2		IL, US
	19FEB16:03:45	DFLC	Railroad #2	Railroad #2		IL, US
	19FEB16:06:16	DFLC	Railroad #2	Railroad #2		IL, US
	19FEB16:09:35	DFLC	Railroad #2	Railroad #2		IL, US
	19FEB16:09:50	ARIL	Railroad #2	Railroad #2		IL, US
	19FEB16:09:51	DFLC	Railroad #2	Railroad #2		IL, US
	19FEB16:09:51	DFLC	Railroad #2	Railroad #2		IL, US
EOT Approximate Match	19FEB16:18:33	ARIL	Railroad #2	Railroad #2		IL, US
EOT Approximate Match	20FEB16:01:28	DFLC	Railroad #2	Railroad #2		IL, US
	20FEB16:06:54	ARIL	Railroad #2	Railroad #2		IL, US
	23FEB16:07:55	ICHHD	Railroad #2	Railroad #2	Railroad #4	IL, US
	25FEB16:12:21	DFLC	Railroad #4	Railroad #4		IL, US
	25FEB16:12:30	DFLC	Railroad #4	Railroad #4		IL, US
	25FEB16:16:49	DFLC	Railroad #4	Railroad #4		IL, US
	25FEB16:20:48	DFLC	Railroad #4	Railroad #4		WI, US
	25FEB16:21:36	DFLC	Railroad #4	Railroad #4		WI, US
	25FEB16:23:10	DFLC	Railroad #4	Railroad #4		WI, US
	25FEB16:23:55	DFLC	Railroad #4	Railroad #4		WI, US
	26FEB16:01:50	DFLC	Railroad #4	Railroad #4		WI, US
	26FEB16:04:45	DFLC	Railroad #4	Railroad #4		MN, US
	26FEB16:04:59	ARRI	Railroad #4	Railroad #4		MN, US
EQC End of Trip	27FEB16:08:15	PACT	Railroad #4	Railroad #4		MN, US

* Locations were abbreviated to state and country

REFERENCES

- Association of American Railroads, "Analysis of Class I Railroads - 1992". Babcock, M.W., "Potential Impact of Railroad Deregulation in the Kansas Wheat Market", *J. Econ.* 7(1981); 93-98.
- Babcock, M.W., L.O. Sorenson, M.H. Chow, and K.A. Klindworth, "Impact of the Staggers Act on Agriculture: A Kansas Case Study", *Proceedings of the Transp. Res. Forum*, 26(1985); 364- 372.
- Chow, M.H., "Interrail Competition in Rail Grain Rates on the Central Plains", *Proceedings of the Transp. Res. Forum*, 27(1986); 164-171. Fuller, S.W., L. Makus, and M. Taylor, "Effects of Railroad Deregulation on Export Grain Rates", *N. Cent. J. Agr. Econ*, 5(1983); 51-63.
- Fuller, S.W., D. Bessler, J. MacDonald, and M. Wohlgenant, "Effects of Deregulation on Export-Grain Rail Rates in the Plains and Corn Belt", *Proceedings of the Transp. Res. Forum*, 28(1987); 160-167.
- Fuller, S.W., F. J. Ruppel, and D.A. Bessler, "Effect of Contract Disclosure on Price: Railroad Grain Contracting in the Plains", *W. J. of Ag. Econ*, 15(2)(1990); 265-271.
- MacDonald, J.M., "Competition and Rail Rates for the Shipment of Corn, Soybeans, and Wheat", *Rand J. Econ*, 18(1)(1987); 151-163.
- Manalytics, Inc., "Rubber-Tired Interchange: Report to the Association of American Railroads", July 26, 1991.
- Satterthwaite, F.W., "An Approximate Distribution of Estimates of Variance Components," *Biometrics Bulletin*, No. 2, (1946), 110-114.
- Transmode Consultants, Inc., "Truck-Rail, Rail-Truck Diversion Model: Users Manual", prepared for the U.S. Department of Transportation, December 1994.
- Wolfe, K. E., "The Carload Waybill Statistics: A Content Analysis", *Proceedings of the Transp. Res. Forum*, 27(1986); 244-256.
- Wolfe, K. E., "The Interstate Commerce Commission's Public Use Waybill File: Concerns For Mis-Interpretation", *Journal of the Transp. Res. Forum*, 32(1)(1991); 263-265.

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.