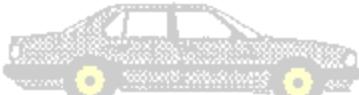


MOTORCYCLE



PASSENGER CARS



KANSAS

2005

PICKUPS

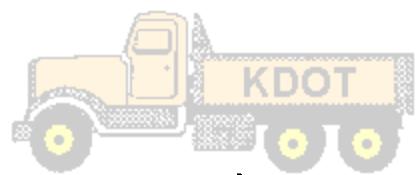


FIVE AXLES

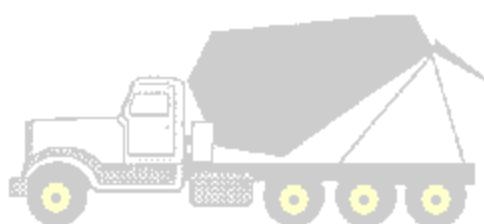


VEHICLE CLASSIFICATION Overview

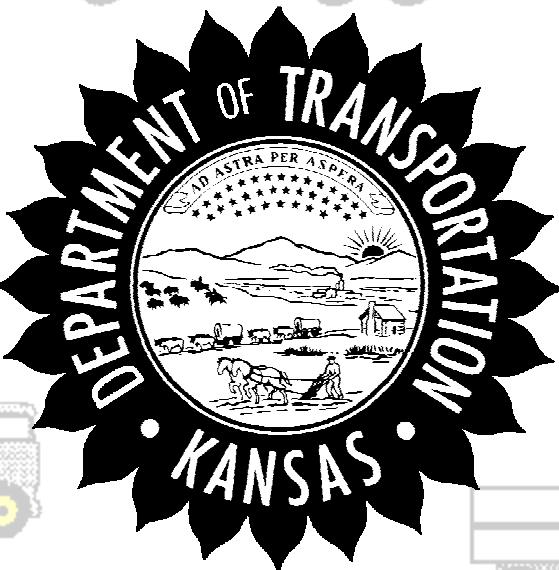
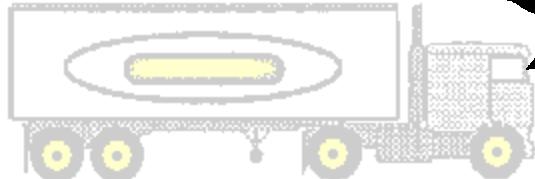
TWO AXLE



FOUR + AXLES



FOUR or LESS AXLES



FIVE AXLES

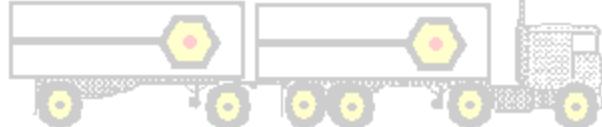


SIX + AXLES



Kansas Department of Transportation
Bureau of Transportation Planning
Traffic and Field Operations Unit

SIX AXLES



SEVEN + AXLES



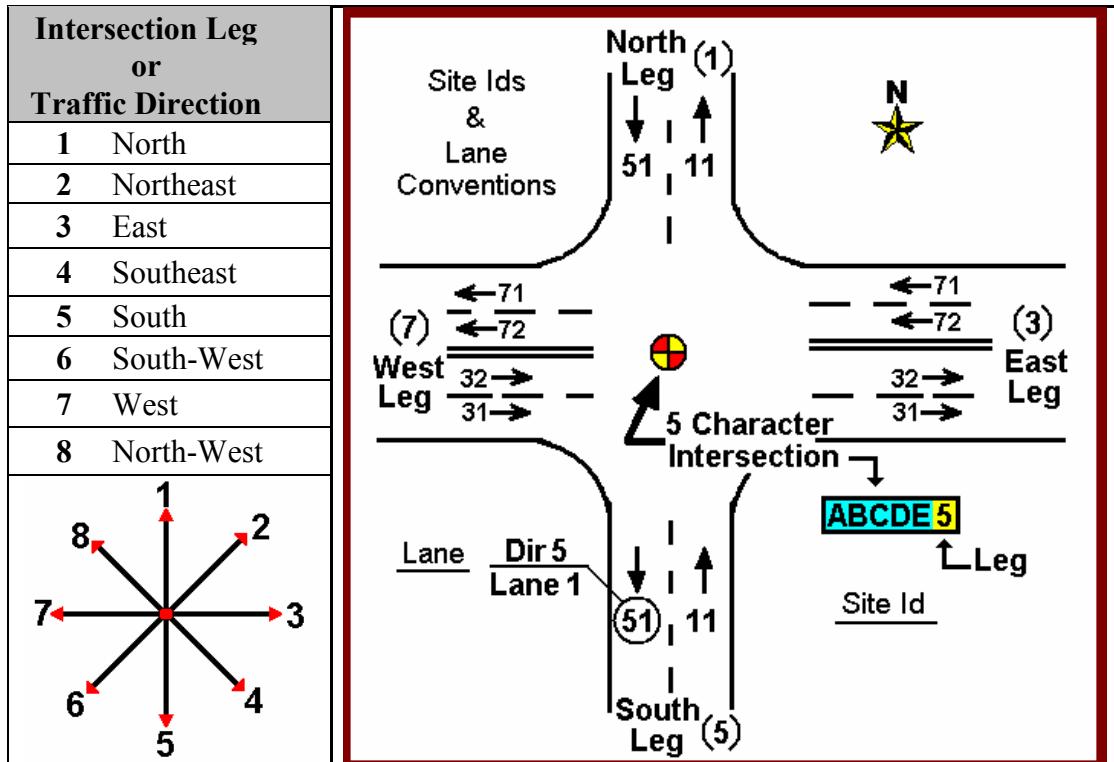
OVERVIEW & CONVENTIONS

In 2005, (328) classification surveys were made by the Traffic & Field Operations unit.

<u>District</u>	<u>Counties</u>	<u>Locations</u>
I	17	66
II	15	47
III	17	48
IV	13	47
V	17	61
VI	<u>15</u>	<u>51</u>
Total	94	320

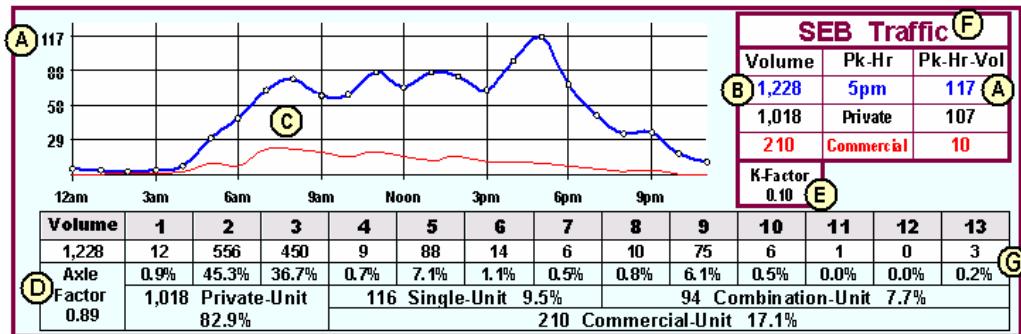
Each survey location is identified with a unique (6)-Character Site ID. The first (5) characters represent the **Route & Cross-Route** (intersection), and the last digit depicts the direction or leg from the intersection.

Traffic lanes are identified with a (2) digit number. The first indicates the *traffic direction*, and the last, the *traffic lane*. Traffic-lane numbering *always* start with 1 on the outside right-most lane.



OVERVIEW & CONVENTIONS

Understanding Classification Report Charts

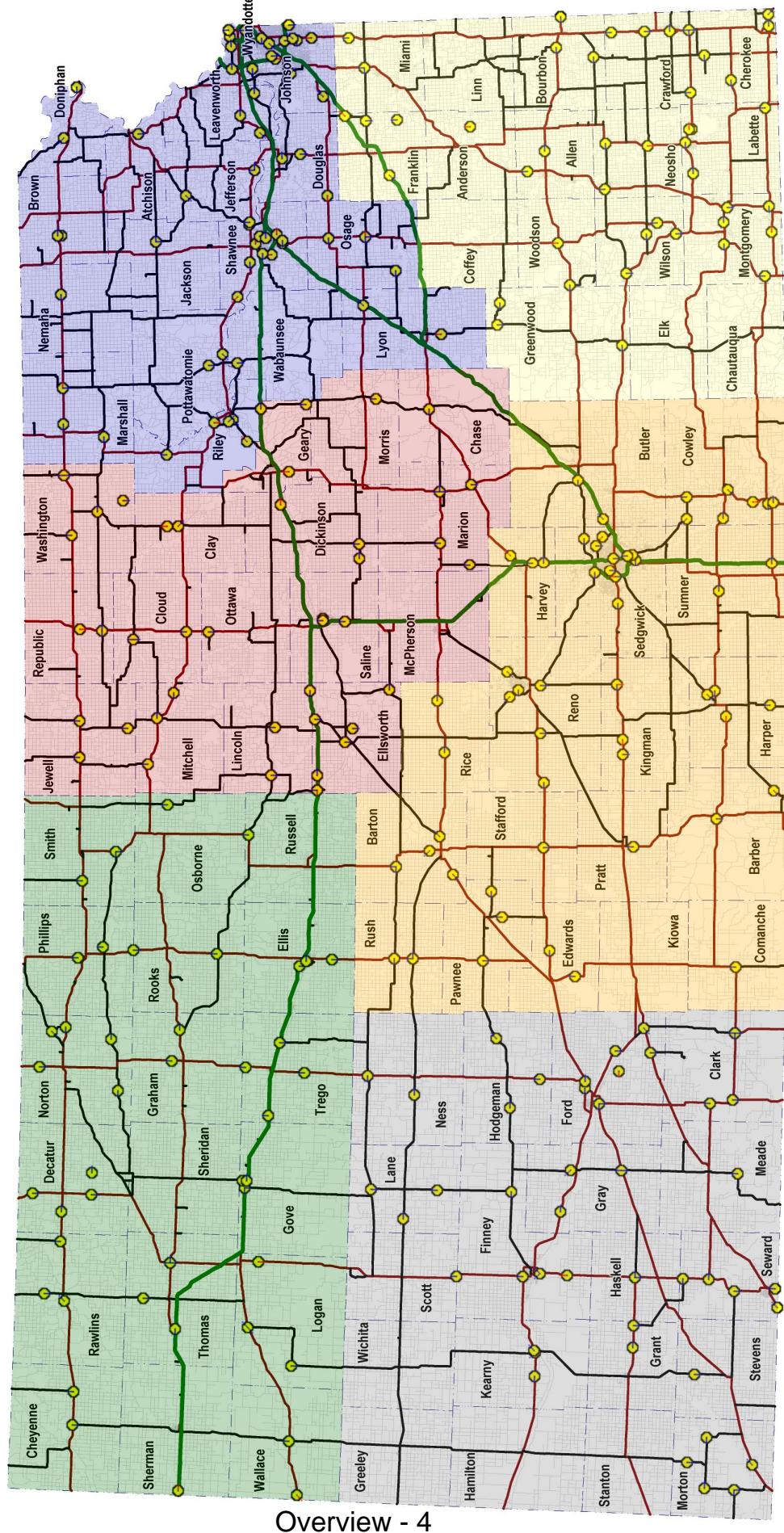


- A) Averaged Peak-Hour Traffic Volume: All Traffic (117); Class 1-3 (107); Class 4-13 (10)
- B) Averaged (24) Hour Volumes.
- C) Averaged Hourly Volumes : Total Traffic (Blue) & Commercial Traffic (Red)
- D) The Axle Correction Factor is used to adjust traffic volumes obtained from axle counts
- E) The K-Factor is the Highest Direction Peak-Hour-Volume divided by the 24 Hour Site Volume.
- F) Site or Indicated Traffic Direction
- G) Averaged 24 Hour (Total or Category) Volume

Roadway Functional Classification Codes

<u>Rural</u>		<u>Urban</u>	
01	Interstate	11	Interstate
02	Other Principal Arterials	12	Freeway & Expressways
06	Minor Arterials	14	Other Principal Arterials
07	Major Collectors	16	Minor Arterials
08	Minor Collectors	17	Collectors
09	Locals	19	Locals

2005 Vehicle Classification Locations



2005 Classification Surveys

Number of Locations by Route & District

K Routes	District					
	1	2	3	4	5	6
K-2				2		
K-4	3	2		2	1	
K-5	2					
K-7	2					
K-8		1				
K-9		3	3			
K-14		4		1		
K-15		6		2		
K-16	1					
K-17			1			
K-18	2					
K-19			2			
K-23		2		6		
K-25		3		2		
K-27		2		3		
K-28	1					
K-31	1					
K-32	2					
K-34				1		
K-39		2				
K-47		1				
K-51				2		
K-58		1				
K-61			1			
K-68		1				
K-94				1		
K-96			4	2		
K-99	4	1				
K-102		1				
K-116	1					
K-117		1				
K-126			1			
K-128	2					
K-144				1		
K-147		1				
K-148		4				
K-150		1				
K-156	1			1	3	
K-161		1				
K-170	1					
K-177		2				
K-179				1		
K-181	1	1				
K-190				2		
K-196				1		
K-198		1				
K-232	1					
K-254				2		
K-268	1					
K-360				1		
K-383		1				

Interstate Routes	District					
	1	2	3	4	5	6
I-35	1			2	1	
I-70	2	5	4			
I-135		1		2		
I-235				2		
I-335	1					
I-435	1					
I-635	1					

City Routes	District					
	1	2	3	4	5	6
C-106						1
C-1000		1				
C-1714				1		
C-1820					1	
C-2701	1					
C-2712	1					
C-2901	1					
C-3151	1					
C-3216	1					
C-3814	1					
C-4212	1					
C-4261	1					
C-4516					1	
C-4816			1			
C-4817			1			
C-5251	1					
C-5350	1					
C-5390	1					
C-5630	2					
C-6050					1	
C-6150					1	
C-6275					1	
C-6451					1	
C-6625					1	

Minor Collectors	District					
	1	2	3	4	5	6
MCS-7409			1			

Rural Secondary	District					
	1	2	3	4	5	6
RS-13				1		
RS-18				1		
RS-61	1					
RS-125		1				
RS-238		1				
RS-251					1	
RS-266				2		
RS-296					1	
RS-303					1	
RS-538	1					
RS-902			1			
RS-1253	1					

2005 VEHICLE CLASSIFICATION by FUNCTIONAL CLASS
SUMMARY BY FUNCTIONAL CLASSIFICATION

Fun Class	No Loc	FHWA VEHICLE TYPE CATEGORY							HEAVY COMMERCIAL			Vehicle Total	Aisle Factor						
		1	2	3	4	5	6	7	8	9	10	11	12						
1	14	746	82,835	27,393	1,164	4,117	931	341	3,833	32,436	463	2,792	1,163	798	6,553	41,484	48,037	159,012	0.72
2	101	2,595	256,668	122,755	2,621	17,463	4,645	1,694	8,315	50,687	2,240	1,925	430	1,004	26,424	64,601	91,025	473,043	0.83
6	107	931	94,348	51,638	879	7,684	2,413	742	2,744	15,034	1,060	311	69	483	11,718	19,701	31,419	178,335	0.85
7	46	139	12,441	8,254	107	1,163	542	132	317	2,083	163	76	11	81	1,944	2,731	4,675	25,510	0.85
8	1	0	11	15	0	2	2	1	1	0	0	0	0	0	5	1	6	32	0.91
11	7	0.35%	68.40%	21.09%	0.50%	2.32%	0.83%	0.18%	1.02%	4.59%	0.10%	0.30%	0.14%	0.19%	3.83%	6.34%	10.17%	314,655	0.91
12	5	534	66,730	28,943	507	3,914	1,551	411	1,339	4,653	181	147	47	279	6,382	6,645	13,027	109,234	0.91
14	20	1,300	211,857	62,721	902	6,534	2,094	571	2,042	4,874	227	157	64	151	10,102	7,515	17,616	293,494	0.96
16	15	721	115,583	27,343	383	2,227	354	164	811	825	57	31	42	3,128	1,823	4,950	148,598	0.98	
17	2	17	5,781	1,929	38	212	58	29	32	35	4	11	2	6	336	89	424	8,150	0.98
Total %	318	8,085	1,061,469	397,341	8,180	50,611	15,198	4,647	22,641	125,065	4,718	6,411	2,258	3,437	78,636	164,530	243,166	1,710,060	0.87

* SU = SINGLE UNIT VEHICLES, CLASS 4 THRU 7
**COMB = COMBINATION UNITS, CLASS 8 THRU 13

2003 - 2005 VEHICLE CLASSIFICATION by FUNCTIONAL CLASS

SUMMARY BY FUNCTIONAL CLASSIFICATION

Fun Class	No Loc	FHWA VEHICLE TYPE CATEGORY							HEAVY COMMERCIAL			Vehicle Total	Axe Factor			
		1	2	3	4	5	6	7	8	9	10	11	12			
1	36	1,848	252,207	82,169	3,380	11,995	2,685	899	10,911	91,598	1,232	7,075	3,006	2,298	18,960	
		0.39%	53.51%	17.43%	0.72%	2.55%	0.57%	0.19%	2.32%	19.44%	0.26%	1.50%	0.64%	0.49%	4.02%	24.64%
2	243	6,163	863,075	338,086	6,952	42,452	12,163	3,899	22,001	119,770	5,035	4,464	1,184	2,582	65,466	155,036
		0.43%	60.45%	23.68%	0.49%	2.97%	0.85%	0.27%	1.54%	8.39%	0.35%	0.31%	0.08%	0.18%	4.59%	10.86%
6	308	2,487	285,169	154,619	2,337	20,650	6,168	1,901	7,539	39,613	2,530	1,100	174	1,269	31,055	52,225
		0.47%	54.26%	29.42%	0.44%	3.93%	1.17%	0.36%	1.43%	7.54%	0.48%	0.21%	0.03%	0.24%	5.91%	9.94%
7	200	708	116,711	60,855	889	7,419	2,212	654	1,884	5,925	484	322	50	307	11,175	8,972
		0.36%	58.82%	30.67%	0.45%	3.74%	1.11%	0.33%	0.95%	2.99%	0.24%	0.16%	0.03%	0.15%	5.63%	4.52%
8	6	18	2,586	900	14	79	83	14	23	66	1	2	0	5	188	96
		0.48%	68.28%	23.76%	0.36%	2.07%	2.18%	0.36%	0.59%	1.74%	0.01%	0.04%	0.00%	0.13%	4.96%	2.52%
9	3	45	8,148	2,185	44	172	55	16	46	37	8	0	0	4	287	95
		0.42%	75.73%	20.31%	0.41%	1.60%	0.51%	0.15%	0.42%	0.34%	0.08%	0.00%	0.00%	0.04%	2.67%	0.88%
11	28	3,874	835,421	260,958	4,508	31,149	11,816	2,369	12,968	74,626	1,470	4,338	1,873	2,390	49,842	97,671
		0.31%	66.95%	20.91%	0.36%	2.50%	0.95%	0.19%	1.04%	5.98%	0.12%	0.35%	0.15%	0.19%	3.99%	7.83%
12	20	2,188	436,562	130,775	2,318	15,491	6,015	1,546	6,153	14,420	841	524	706	1,072	25,369	23,714
		0.35%	70.57%	21.14%	0.37%	2.50%	0.97%	0.25%	0.99%	2.33%	0.14%	0.08%	0.11%	0.17%	4.10%	3.83%
14	48	3,238	572,869	163,334	2,128	15,387	4,615	1,340	4,868	11,480	529	293	178	362	23,470	17,711
		0.41%	73.39%	20.92%	0.27%	1.97%	0.59%	0.17%	0.62%	1.47%	0.07%	0.04%	0.02%	0.05%	3.01%	2.27%
16	34	1,843	277,235	71,354	774	5,895	1,048	391	1,634	1,666	109	87	40	72	8,107	3,608
		0.51%	76.55%	19.70%	0.21%	1.63%	0.29%	0.11%	0.45%	0.46%	0.03%	0.02%	0.01%	0.02%	2.24%	1.00%
17	11	239	36,522	11,057	242	1,178	642	102	554	1,135	23	273	16	63	2,164	2,064
		0.46%	70.17%	21.25%	0.47%	2.26%	1.23%	0.20%	1.06%	2.18%	0.04%	0.53%	0.03%	0.12%	4.16%	3.97%
19	4	35	2,416	1,355	5	107	37	7	63	45	5	23	3	24	156	162
		0.84%	58.59%	32.87%	0.11%	2.60%	0.91%	0.16%	1.52%	1.08%	0.11%	0.55%	0.07%	0.58%	3.78%	3.92%
Total %	941	22,685	3,688,921	1,277,647	23,591	151,973	47,538	13,136	68,342	360,380	12,266	18,500	7,236	10,447	236,239	477,471
		0.40%	64.68%	22.40%	0.41%	2.66%	0.83%	0.23%	1.20%	6.32%	0.22%	0.32%	0.13%	0.18%	4.14%	8.37%
															5,702,963	0.88

* SU = SINGLE UNIT VEHICLES, CLASS 4 THRU 7
**COMB = COMBINATION UNITS, CLASS 8 THRU 13

FHWA CLASSIFICATIONS

PRIVATE VEHICLES		COMMERCIAL VEHICLES			
1	MOTORCYCLE	2	PASSENGER CARS	3	PICKUPS
4	5 TWO AXLE	6 THREE AXLE	7 FOUR + AXLES	8 FOUR or LESS AXLES	9 FIVE AXLES
5	SINGLE UNIT	6	7	8	9
6	SINGLE TRAILER	7	8	9	10 SIX + AXLES
7	MULTI TRAILER	8	9	10	11 FIVE AXLES
8		9	10	11	12 SIX AXLES
9		10	11	12	13 SEVEN + AXLES
10		11	12	13	14 EIGHT + AXLES
11		12	13	14	15 NINE + AXLES
12		13	14	15	16 TEN + AXLES
13		14	15	16	17 ELEVEN + AXLES
14		15	16	17	18 TWELVE + AXLES
15		16	17	18	19 THIRTEEN + AXLES
16		17	18	19	20 FOURTEEN + AXLES
17		18	19	20	21 FIFTEEN + AXLES
18		19	20	21	22 SIXTEEN + AXLES
19		20	21	22	23 SEVENTEEN + AXLES
20		21	22	23	24 EIGHTEEN + AXLES
21		22	23	24	25 NINETEEN + AXLES
22		23	24	25	26 TWENTY + AXLES
23		24	25	26	27 TWENTY-ONE + AXLES
24		25	26	27	28 TWENTY-TWO + AXLES
25		26	27	28	29 TWENTY-THREE + AXLES
26		27	28	29	30 TWENTY-FOUR + AXLES
27		28	29	30	31 TWENTY-FIVE + AXLES
28		29	30	31	32 TWENTY-SIX + AXLES
29		30	31	32	33 TWENTY-SEVEN + AXLES
30		31	32	33	34 TWENTY-EIGHT + AXLES
31		32	33	34	35 TWENTY-NINE + AXLES
32		33	34	35	36 THIRTY + AXLES
33		34	35	36	37 THIRTY-ONE + AXLES
34		35	36	37	38 THIRTY-TWO + AXLES
35		36	37	38	39 THIRTY-THREE + AXLES
36		37	38	39	40 THIRTY-FOUR + AXLES
37		38	39	40	41 THIRTY-FIVE + AXLES
38		39	40	41	42 THIRTY-SIX + AXLES
39		40	41	42	43 THIRTY-SEVEN + AXLES
40		41	42	43	44 THIRTY-EIGHT + AXLES
41		42	43	44	45 THIRTY-NINE + AXLES
42		43	44	45	46 THIRTY-TWO + AXLES
43		44	45	46	47 THIRTY-THREE + AXLES
44		45	46	47	48 THIRTY-FOUR + AXLES
45		46	47	48	49 THIRTY-FIVE + AXLES
46		47	48	49	50 THIRTY-SIX + AXLES
47		48	49	50	51 THIRTY-SEVEN + AXLES
48		49	50	51	52 THIRTY-EIGHT + AXLES
49		50	51	52	53 THIRTY-NINE + AXLES
50		51	52	53	54 THIRTY-TWO + AXLES
51		52	53	54	55 THIRTY-THREE + AXLES
52		53	54	55	56 THIRTY-FOUR + AXLES
53		54	55	56	57 THIRTY-FIVE + AXLES
54		55	56	57	58 THIRTY-SIX + AXLES
55		56	57	58	59 THIRTY-SEVEN + AXLES
56		57	58	59	60 THIRTY-EIGHT + AXLES
57		58	59	60	61 THIRTY-NINE + AXLES
58		59	60	61	62 THIRTY-TWO + AXLES
59		60	61	62	63 THIRTY-THREE + AXLES
60		61	62	63	64 THIRTY-FOUR + AXLES
61		62	63	64	65 THIRTY-FIVE + AXLES
62		63	64	65	66 THIRTY-SIX + AXLES
63		64	65	66	67 THIRTY-SEVEN + AXLES
64		65	66	67	68 THIRTY-EIGHT + AXLES
65		66	67	68	69 THIRTY-NINE + AXLES
66		67	68	69	70 THIRTY-TWO + AXLES
67		68	69	70	71 THIRTY-THREE + AXLES
68		69	70	71	72 THIRTY-FOUR + AXLES
69		70	71	72	73 THIRTY-FIVE + AXLES
70		71	72	73	74 THIRTY-SIX + AXLES
71		72	73	74	75 THIRTY-SEVEN + AXLES
72		73	74	75	76 THIRTY-EIGHT + AXLES
73		74	75	76	77 THIRTY-NINE + AXLES
74		75	76	77	78 THIRTY-TWO + AXLES
75		76	77	78	79 THIRTY-THREE + AXLES
76		77	78	79	80 THIRTY-FOUR + AXLES
77		78	79	80	81 THIRTY-FIVE + AXLES
78		79	80	81	82 THIRTY-SIX + AXLES
79		80	81	82	83 THIRTY-SEVEN + AXLES
80		81	82	83	84 THIRTY-EIGHT + AXLES
81		82	83	84	85 THIRTY-NINE + AXLES
82		83	84	85	86 THIRTY-TWO + AXLES
83		84	85	86	87 THIRTY-THREE + AXLES
84		85	86	87	88 THIRTY-FOUR + AXLES
85		86	87	88	89 THIRTY-FIVE + AXLES
86		87	88	89	90 THIRTY-SIX + AXLES
87		88	89	90	91 THIRTY-SEVEN + AXLES
88		89	90	91	92 THIRTY-EIGHT + AXLES
89		90	91	92	93 THIRTY-NINE + AXLES
90		91	92	93	94 THIRTY-TWO + AXLES
91		92	93	94	95 THIRTY-THREE + AXLES
92		93	94	95	96 THIRTY-FOUR + AXLES
93		94	95	96	97 THIRTY-FIVE + AXLES
94		95	96	97	98 THIRTY-SIX + AXLES
95		96	97	98	99 THIRTY-SEVEN + AXLES
96		97	98	99	100 THIRTY-EIGHT + AXLES

- 01 - Motorcycles
- 02 - Passenger Cars
- 03 - Other Two-Axle, Four-Tire Single-Unit Vehicles
- 04 - Busses
- 05 - Two-axle, Six-Tire Single-Unit Trucks
- 06 - Three-Axle Single-Unit Trucks
- 07 - Four or More Axle Single-Unit Trucks
- 08 - Four or Less Axle Single-Trailer Trucks
- 09 - Five-axle Single-Trailer Trucks
- 10 - Six or More Axle Single-Trailer Trucks
- 11 - Five or Less Axle Multi-Trailer Trucks
- 12 - Six Axle Multi-Trailer Trucks
- 13 - Seven or More Axle Multi-Trailer Trucks