

Light-Duty Automotive Technology and Fuel Economy Trends: 1975 Through 2008

Appendix J Data Stratified by Vehicle Type and Cylinder Count

Compliance and Innovative Strategies Division
and
Transportation and Climate Division

Office of Transportation and Air Quality
U.S. Environmental Protection Agency

NOTICE

This technical report does not necessarily represent final EPA decisions or positions. It is intended to present technical analysis of issues using data that are currently available. The purpose in the release of such reports is to facilitate the exchange of technical information and to inform the public of technical developments.



Table J-1

Characteristics of 1975 to 2008 Other Cylinder Cars

MODEL YEAR	SALES (000)	FRAC	<--- FUEL LAB 55/45	ECONOMY ADJ CITY	>--- ADJ HWY	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT- TON-MPG	
1975	2	.000	11.5	8.8	11.4	9.8	4500	326	285	8.2	154	.874	.0633	22.1			
1976	2	.000	11.0	8.5	10.7	9.4	4500	326	244	9.3	142	.748	.0542	21.1			
1977	2	.000	11.2	8.7	10.9	9.6	4445	91.6	326	244	9.2	142	.748	.0550	21.3	878	1948
1978	1	.000	11.4	9.0	10.7	9.7	4500	93.4	326	268	8.6	149	.822	.0595	21.8	906	2038
1979	1	.000	11.0	8.8	10.2	9.4	4500	92.4	326	244	9.3	142	.748	.0542	21.1	866	1949
1980	0	.000	13.1	9.9	13.3	11.2	4224	89.5	326	267	8.2	152	.818	.0633	24.1	1027	2157
1982	1	.000	16.5	12.4	17.0	14.1	4000	87.3	326	262	8.0	154	.804	.0655	28.3	1234	2468
1983	2	.000	16.5	12.4	17.2	14.1	3989	86.5	325	264	8.0	155	.813	.0663	28.2	1226	2448
1984	3	.000	16.6	12.4	17.1	14.2	3997	84.9	326	262	8.0	154	.806	.0657	28.3	1204	2408
1985	4	.000	16.5	12.4	16.9	14.1	4000	84.1	325	265	7.9	155	.816	.0663	28.2	1189	2377
1986	5	.000	16.2	12.1	16.7	13.9	3996	82.5	324	270	7.9	157	.833	.0676	27.9	1157	2313
1987	3	.000	16.7	12.5	16.7	14.2	3991	75.4	324	276	7.8	159	.855	.0692	28.7	1094	2185
1988	9	.001	16.1	11.9	16.4	13.7	4157	94.0	318	280	7.9	157	.884	.0674	28.6	1301	2730
1989	11	.001	16.4	12.0	16.8	13.9	4310	85.4	318	279	8.1	155	.880	.0650	30.2	1203	2598
1990	9	.001	16.8	12.2	17.2	14.2	4379	82.7	317	280	8.2	155	.889	.0642	31.2	1182	2589
1991	7	.001	16.6	12.0	17.3	14.1	4409	87.0	312	305	7.7	162	.977	.0695	31.1	1234	2727
1992	5	.001	16.3	11.8	16.7	13.7	4458	87.2	334	317	7.7	165	.949	.0715	30.7	1191	2691
1993	3	.000	16.8	11.9	17.5	14.2	4412	81.0	377	364	6.8	182	.981	.0848	31.1	1131	2592
1994	7	.001	17.2	12.1	17.7	14.4	4158	70.8	407	354	6.7	183	.878	.0876	29.9	1009	2149
1995	5	.001	16.7	11.7	17.3	14.0	4432	82.3	390	373	6.6	183	.975	.0853	31.3	1159	2629
1996	4	.001	18.3	12.6	19.3	15.4	4131	79.8	408	381	6.2	193	.950	.0952	31.8	1233	2668
1997	4	.001	17.1	11.5	18.8	14.4	4218	75.6	403	405	6.0	199	1.018	.0992	30.8	1112	2458
1998	3	.000	17.5	11.9	18.6	14.7	4222	79.4	388	395	6.2	195	1.027	.0963	31.4	1198	2626
1999	3	.000	16.1	10.9	17.2	13.5	4274	75.2	394	412	6.1	200	1.062	.1002	29.4	1044	2364
2000	4	.000	16.4	10.9	17.8	13.8	4150	71.5	405	412	5.9	203	1.033	.1032	28.9	1001	2188
2001	6	.001	17.5	11.6	18.8	14.7	4239	86.4	389	398	6.2	196	1.034	.0968	32.1	1347	2983
2002	4	.000	17.6	11.5	19.0	14.7	4126	80.7	399	410	5.9	202	1.042	.1021	31.0	1247	2683
2003	5	.001	17.0	11.2	18.2	14.2	4101	82.0	408	482	5.1	226	1.216	.1206	29.7	1199	2594
2004	8	.001	16.3	10.6	17.3	13.6	4322	74.1	391	496	5.2	226	1.311	.1194	29.8	1034	2398
2005	10	.001	16.3	10.7	17.1	13.6	4630	82.2	384	524	5.2	226	1.390	.1164	31.6	1124	2717
2006	15	.002	16.5	10.7	17.3	13.7	4628	98.1	358	515	5.3	223	1.468	.1142	31.7	1347	3182
2007	21	.003	16.7	11.0	17.3	13.9	4843	104.7	336	524	5.4	220	1.562	.1096	33.7	1464	3573
2008	15	.002	16.7	11.0	17.4	13.9	4750	95.0	357	535	5.3	227	1.520	.1159	33.1	1326	3203

Percent of Other Cylinder Cars:

MODEL YEAR	DRIVETRAIN		TRANSMISSION			FUEL METERING				NUMBER OF VALVES				VVT HYBRID	
	FRONT	4WD	MANUAL	LOCK	CVT	GDI	PORT	TBI	DSL	TWO	THREE	FOUR	FIVE		
1975									100.0						
1976									100.0						
1977			10.9						100.0						
1978									100.0						
1979									100.0						
1980			11.5						64.5						
1982									100.0						
1983			2.2						100.0						
1984			.6						100.0						
1985			2.8						100.0						
1986			6.4						100.0		93.6		6.4		
1987			11.0						100.0		89.0		11.0		
1988			5.4	32.7					100.0		94.6		5.4		
1989			3.9	33.8				98.4	1.6		96.1		3.9		
1990			4.8	37.0					100.0		95.2		4.8		
1991	1.6		12.2	53.4					100.0		94.7		5.3		
1992		1.1	14.4	24.4					100.0		73.6		26.4		20.6
1993		.4	30.9	25.9					100.0		56.6		43.4		40.5
1994		1.5	40.5	36.8					100.0		75.0		25.0		24.9
1995		.8	32.3	30.4					100.0		57.6		42.4		53.5
1996		.6	44.5	55.5					100.0		73.1		26.9		55.5
1997		1.8	40.8	59.2					100.0		52.8		47.2		61.6
1998		2.9	37.0	63.0					100.0		60.3		39.7		67.2
1999		5.2	47.1	52.9					100.0		54.2		45.8		58.9
2000			56.6	43.4					100.0		46.1		53.9		33.8
2001		2.7	39.7	60.3					100.0		43.3	38.9	17.9		21.8
2002		2.4	41.0	59.0					100.0		34.9	44.4	20.7		11.1
2003		1.6	49.4	50.6					100.0		36.8	26.0	37.2		22.4
2004		32.5	37.6	62.4					100.0			22.4	77.6		49.5
2005		37.1	24.9	75.1					100.0		16.5	20.9	60.3	2.3	80.0
2006		31.2	12.1	87.9					100.0		10.5	8.8	78.8	1.0	89.4
2007		33.4	9.8	90.2					100.0			23.9	76.1		67.6
2008		40.5	20.1	79.9			36.1	63.9			9.6	11.3	79.1		79.1

Table J-2

Characteristics of 1975 to 2008 Two-Cylinder Cars

MODEL YEAR	SALES (000)	<---- FRAC LAB	FUEL 55/45	ECONOMY ADJ CITY	----> ADJ HWY	COMP	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT- TON-MPG
1975	51	.006	15.8	12.2	15.4	13.5	2899		152	129	10.9	121	.849	.0444	19.5		
1976	27	.003	20.4	15.8	19.9	17.4	2952		156	132	10.8	121	.846	.0447	25.8		
1977	16	.001	22.3	17.0	22.3	19.1	2965	91.1	157	133	10.8	121	.846	.0448	28.5	1747	2596
1978	2	.000	20.9	16.3	20.1	17.8	2855	94.2	154	131	10.6	122	.848	.0459	25.5	1683	2416
1979	52	.005	20.4	15.3	21.1	17.5	2750	50.0	140	125	10.6	121	.893	.0455	24.0	873	1201
1980	52	.006	19.8	14.8	20.8	17.0	2750	50.0	140	100	12.6	110	.714	.0364	23.4	850	1168
1981	34	.004	23.7	18.4	23.0	20.2	2500	50.0	140	100	11.7	113	.714	.0400	25.3	1012	1265
1982	51	.007	23.7	18.4	22.9	20.2	2500	50.0	140	100	11.7	113	.714	.0400	25.3	1011	1264
1983	61	.008	22.7	17.6	22.0	19.3	2516	50.0	140	100	11.8	113	.714	.0398	24.3	968	1216
1984	41	.004	22.0	16.5	22.5	18.8	2577	50.0	144	109	11.4	116	.749	.0420	24.2	940	1210
1985	59	.005	22.1	16.6	22.6	18.9	2567	50.0	143	106	11.5	115	.739	.0412	24.2	944	1212
1986	51	.005	23.0	17.0	23.9	19.6	2925	79.4	160	146	9.9	127	.912	.0500	28.7	1558	2278
1987	51	.005	22.8	16.8	23.6	19.4	3000	50.0	160	152	9.8	129	.953	.0508	29.1	971	1457
1988	39	.004	22.6	16.6	23.4	19.2	3111	50.0	160	150	10.2	127	.938	.0485	29.9	960	1493
1989	9	.001	22.9	16.6	23.8	19.4	3141	50.0	160	163	9.6	131	1.021	.0523	30.4	969	1520
1990	10	.001	22.9	16.5	23.7	19.3	3169	50.0	160	162	9.7	131	1.014	.0515	30.6	967	1529
1991	8	.001	22.8	16.4	23.5	19.2	3202	50.0	160	161	9.8	130	1.007	.0506	30.7	961	1536
1993	10	.001	23.5	16.7	24.1	19.7	3000	50.0	160	255	6.5	170	1.594	.0850	29.5	984	1476
1994	3	.000	23.5	16.6	24.0	19.6	3000	50.0	160	255	6.5	170	1.594	.0850	29.4	981	1471
1995	0	.000	22.9	16.0	23.5	19.1	3000	50.0	160	255	6.5	170	1.594	.0850	28.7	957	1435
2004	35	.005	23.8	16.3	22.0	19.1	3500	96.3	160	223	8.2	148	1.397	.0639	33.4	1841	3221
2005	18	.002	23.8	16.2	22.0	19.0	3500	96.3	80	220	8.3	147	2.752	.0629	33.3	1834	3210
2006	6	.001	24.0	16.3	22.3	19.2	3500	96.3	79	227	8.1	149	2.870	.0648	33.7	1853	3242
2007	6	.001	24.0	16.3	22.3	19.3	3500	96.3	79	225	8.1	149	2.852	.0644	33.7	1855	3246
2008	3	.000	24.0	16.3	22.3	19.2	3500	96.3	79	226	8.1	149	2.868	.0647	33.7	1853	3243

Percent of Two-Cylinder Cars:

MODEL YEAR	DRIVETRAIN		TRANSMISSION			FUEL METERING				NUMBER OF VALVES					VVT HYBRID	
	FRONT	4WD	MANUAL	LOCK	CVT	GDI	PORT	TBI	DSL	TWO	THREE	FOUR	FIVE			
1975			50.5													
1976			40.1													
1977			61.7													
1978			66.3													
1979			90.1													
1980			90.5													
1981			91.4													
1982			89.6													
1983			92.2													
1984			91.4	8.6					22.4							
1985			87.2	12.8				14.6								
1986			82.4	17.6				100.0			100.0					
1987			85.5	14.5				100.0			100.0					
1988			86.2	13.8				100.0			100.0					
1989			74.1	25.9				100.0			100.0					
1990			72.8	27.2				100.0			100.0					
1991			74.7	25.3				100.0			100.0					
1993			84.8	15.2				100.0			100.0					
1994			88.0	12.0				100.0			100.0					
1995			87.6	12.4				100.0			100.0					
2004			64.9	35.1				100.0			100.0					
2005			56.5	43.5				100.0			100.0					
2006			56.7	43.3				100.0			100.0					
2007			51.3	48.7				100.0			100.0					
2008			56.0	44.0				100.0			100.0					

Table J-3

Characteristics of 1975 to 2008 Three-Cylinder Cars

MODEL YEAR	SALES (000)	FRAC	<---- FUEL LAB 55/45	ECONOMY ADJ CITY	----> ADJ HWY	ADJ COMP	WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT- TON-MPG
1985	37	.003	57.4	46.7	51.5	48.8	1750	82.6	61	48	15.7	96	.787	.0274	42.8	4037	3533
1986	81	.007	55.9	45.4	49.4	47.1	1750	84.6	61	46	16.3	95	.759	.0264	42.0	4052	3546
1987	78	.007	50.8	40.8	44.8	42.5	1878	84.8	63	51	16.2	96	.810	.0271	40.3	3660	3413
1988	103	.010	47.2	37.6	41.6	39.4	1866	86.6	65	54	15.4	98	.824	.0286	37.3	3471	3224
1989	85	.008	47.5	37.8	41.1	39.3	1975	90.9	64	55	15.9	97	.843	.0276	39.4	3675	3581
1990	46	.005	48.7	38.3	42.0	40.0	2021	87.9	63	54	16.2	96	.854	.0269	41.3	3643	3646
1991	111	.013	48.2	37.4	41.8	39.4	2008	85.5	62	56	15.6	98	.907	.0280	40.2	3458	3459
1992	111	.014	48.6	37.2	42.1	39.5	1984	87.6	61	55	15.8	97	.902	.0278	39.7	3528	3490
1993	88	.010	51.1	38.9	43.8	41.2	1979	88.6	61	56	15.5	98	.906	.0282	41.4	3734	3678
1994	100	.012	50.0	37.6	42.7	40.0	1981	91.7	61	55	15.7	97	.904	.0280	40.3	3736	3690
1995	29	.003	54.5	40.3	46.8	43.3	2000	99.9	61	55	15.7	97	.902	.0275	43.3	4331	4331
1996	25	.003	54.8	40.3	46.4	43.2	2000	99.9	61	55	15.7	97	.902	.0275	43.2	4321	4321
1997	13	.002	54.4	39.5	46.1	42.7	2000	90.5	61	55	15.7	97	.902	.0275	42.7	3866	3866
1998	11	.001	53.6	38.1	46.1	41.9	2000	89.7	60	55	15.7	97	.917	.0275	41.9	3761	3761
2000	11	.001	61.6	42.7	51.6	47.1	2000	68.1	61	61	13.2	100	1.005	.0306	48.8	3150	3150
2001	3	.000	71.2	49.3	56.3	52.9	2111	50.0	61	66	11.1	102	1.084	.0315	55.9	2658	2794
2003	1	.000	69.0	47.4	53.0	50.4	2167	50.0	61	66	11.1	101	1.076	.0304	54.6	2528	2730
2004	0	.000	68.5	46.7	51.9	49.5	2175	50.0	61	65	11.1	101	1.075	.0303	53.8	2481	2691
2005	0	.000	69.7	46.6	52.7	49.9	2140	50.0	61	68	11.1	103	1.123	.0322	53.4	2504	2670
2006	1	.000	70.3	46.7	53.6	50.4	2111	50.0	61	72	11.1	105	1.182	.0343	53.2	2529	2661
2008	30	.004	49.5	33.4	40.5	37.1	2000	50.0	61	70	13.0	105	1.148	.0350	37.1	1857	1857

Percent of Three-Cylinder Cars:

MODEL YEAR	DRIVETRAIN		TRANSMISSION			FUEL METERING				NUMBER OF VALVES					VVT HYBRID	
	FRONT	4WD	MANUAL	LOCK	CVT	GDI	PORT	TBI	DSL	TWO	THREE	FOUR	FIVE			
1985	100.0		90.1													
1986	100.0		64.7													
1987	100.0		73.5				8.6				86.5	13.5				
1988	89.0	11.0	76.5				13.2	1.5			68.6	31.4				
1989	100.0		64.3		14.9		13.0	57.5			70.5	29.5				
1990	89.0	11.0	77.7		6.4		24.2	70.1			79.3	20.7				
1991	94.5	5.5	61.0		3.3		7.8	89.7			91.9	8.1				
1992	99.6	.4	50.1		.2		1.9	97.4			98.8	1.2				
1993	97.7	2.3	69.2		.9		4.6	95.4			95.4	4.6				
1994	100.0		53.9				2.4	97.6			97.6	2.4				
1995	100.0		100.0					100.0			100.0					
1996	100.0		100.0					100.0			100.0					
1997	100.0		100.0					100.0			100.0					
1998	100.0		100.0					100.0			100.0					
2000	52.4		100.0				52.4	47.6			47.6		52.4		52.4	
2001	100.0		55.8		44.2		100.0						100.0		100.0	
2003	100.0		33.2		66.8		100.0						100.0		100.0	
2004	100.0		29.8		70.2		100.0						100.0		100.0	
2005	100.0		44.0		56.0		100.0						100.0		100.0	
2006	100.0		55.7		44.3		100.0						100.0		100.0	
2008				100.0			100.0						100.0			

Table J-4

Characteristics of 1975 to 2008 Four-Cylinder Cars

MODEL YEAR	SALES (000)	FRAC	<---- FUEL ECONOMY ---->				WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT- TON-MPG
			LAB 55/45	ADJ CITY	ADJ HWY	ADJ COMP											
1975	1805	.219	24.3	18.7	23.8	20.7	2651	112	79	15.1	102	.716	.0298	27.6			
1976	2017	.207	26.5	20.5	25.8	22.6	2613	111	77	15.2	102	.706	.0296	29.7			
1977	2287	.202	28.7	22.4	27.6	24.4	2523	86.8	106	14.6	103	.742	.0308	31.2	2178	2718	
1978	2926	.262	28.3	22.3	26.7	24.1	2511	88.9	108	14.7	103	.727	.0308	30.7	2196	2731	
1979	3157	.292	27.1	21.2	25.7	23.1	2564	90.1	110	14.9	102	.707	.0300	29.8	2121	2695	
1980	4511	.478	28.1	22.0	26.8	23.9	2573	93.0	116	14.8	102	.681	.0303	31.0	2267	2891	
1981	4469	.512	29.8	23.4	28.3	25.4	2555	97.7	115	14.6	103	.693	.0308	32.7	2515	3192	
1982	4251	.544	30.9	24.1	29.8	26.3	2595	97.8	114	14.9	102	.686	.0300	34.4	2609	3367	
1983	4158	.520	31.2	24.4	29.8	26.6	2622	101.2	118	14.7	103	.694	.0307	35.2	2737	3556	
1984	5744	.538	31.4	24.4	30.2	26.7	2655	100.3	119	14.3	105	.718	.0320	35.8	2720	3586	
1985	5865	.543	31.5	24.6	30.3	26.9	2671	101.9	120	13.8	107	.752	.0336	36.1	2774	3685	
1986	6462	.587	31.3	24.2	30.0	26.6	2719	102.5	121	13.9	106	.753	.0332	36.3	2753	3725	
1987	6679	.622	31.1	24.0	29.7	26.3	2732	102.1	121	13.8	107	.772	.0336	36.1	2710	3689	
1988	6333	.590	31.7	24.3	30.1	26.7	2739	101.8	118	13.6	108	.805	.0343	36.7	2748	3742	
1989	5671	.566	31.1	23.6	29.6	26.1	2794	101.5	120	13.1	110	.840	.0357	36.6	2678	3718	
1990	4925	.559	30.7	23.1	29.1	25.6	2857	100.8	122	12.6	112	.901	.0378	36.7	2605	3706	
1991	4843	.568	30.8	23.0	29.3	25.7	2846	100.9	120	12.5	113	.913	.0380	36.7	2620	3709	
1992	3946	.487	30.9	22.8	29.4	25.7	2885	100.7	120	12.3	114	.947	.0388	37.2	2613	3746	
1993	4267	.505	31.6	23.1	30.1	26.1	2866	101.9	119	12.4	113	.930	.0383	37.6	2689	3831	
1994	4190	.498	31.6	22.9	30.1	26.0	2899	102.0	120	12.3	114	.955	.0390	37.9	2682	3868	
1995	4620	.492	32.2	23.1	30.7	26.4	2889	102.7	118	12.0	117	1.016	.0413	38.3	2737	3932	
1996	3982	.505	31.6	22.5	30.1	25.9	2936	102.8	121	12.3	118	1.023	.0420	38.1	2684	3919	
1997	4481	.538	31.8	22.4	30.2	25.9	2947	102.4	121	12.4	118	1.024	.0420	38.2	2671	3920	
1998	4098	.514	32.0	22.4	30.3	25.9	3015	103.4	122	12.7	115	1.044	.0421	39.2	2701	4057	
1999	4057	.484	31.4	21.9	29.7	25.4	3072	103.7	123	12.9	115	1.051	.0421	39.1	2655	4064	
2000	4400	.482	31.2	21.6	29.2	25.2	3072	104.4	123	13.0	114	1.063	.0425	38.7	2645	4049	
2001	4180	.497	31.7	21.8	29.5	25.4	3102	104.9	124	13.2	114	1.067	.0425	39.6	2699	4167	
2002	4331	.522	31.5	21.5	29.1	25.1	3135	106.7	126	13.8	111	1.099	.0440	39.6	2710	4234	
2003	4136	.520	32.2	21.8	29.6	25.5	3161	107.1	126	14.2	109	1.135	.0449	40.6	2767	4359	
2004	3744	.497	32.6	21.9	29.9	25.8	3153	107.3	126	14.5	107	1.153	.0458	41.0	2805	4405	
2005	4363	.544	33.2	22.2	30.1	26.1	3143	108.3	126	14.5	106	1.151	.0459	41.5	2877	4506	
2006	4039	.505	33.3	22.2	30.2	26.2	3185	108.1	127	15.0	105	1.183	.0470	42.2	2878	4572	
2007	4631	.577	34.3	22.9	31.0	26.9	3203	108.0	127	14.9	105	1.167	.0463	43.7	2969	4738	
2008	4771	.559	34.7	23.2	31.2	27.1	3213	108.3	127	15.1	104	1.183	.0468	44.3	3005	4814	

Percent of Four-Cylinder Cars:

MODEL YEAR	DRIVETRAIN		TRANSMISSION		CVT	FUEL METERING				NUMBER OF VALVES				VVT	HYBRID
	FRONT	4WD	MANUAL	LOCK		GDI	PORT	TBI	DSL	TWO	THREE	FOUR	FIVE		
1975	25.2		68.9				14.4		.8						
1976	22.0		63.9				6.7		.6						
1977	28.3		69.5				11.9		1.8						
1978	31.8		67.4				10.4		1.7						
1979	33.5	1.2	65.9				7.0		2.1						
1980	44.8	1.0	60.3				9.1		3.6						
1981	60.6	.9	55.2	1.7			7.5		4.0						
1982	72.1	.9	49.5	21.4			7.5	11.2	2.6						
1983	76.2	5.1	45.0	26.2			11.7	21.0	1.0						
1984	81.3	1.4	39.9	30.4			15.4	28.3	1.6						
1985	84.0	3.7	36.7	31.8			18.7	33.6	.8						
1986	89.5	1.5	36.5	37.0			24.4	38.9	.4	92.4	5.4	2.2			
1987	92.0	1.5	34.4	43.0			24.9	43.2	.1	78.1	14.4	7.4			
1988	94.1	1.0	35.2	50.3			32.7	45.9		69.8	15.1	15.1			
1989	93.2	1.5	31.8	53.5			43.7	41.3	.1	61.2	19.7	19.2			
1990	93.2	1.5	30.6	57.9			62.9	35.3	.0	47.6	9.4	43.0			
1991	92.5	2.1	31.2	60.9			68.9	31.0	.1	47.1	10.6	42.3		2.8	
1992	88.5	1.2	30.1	61.4			86.6	13.4	.0	41.8	8.8	49.4		4.9	
1993	94.1	2.0	29.3	62.9			88.1	11.9		45.2	5.8	49.0		5.4	
1994	97.1	.7	27.4	67.1			92.1	7.9		39.4	3.6	57.0		12.1	
1995	90.2	2.2	27.4	70.7			98.3	1.7		24.7	2.2	73.1		12.3	
1996	95.9	2.5	24.0	73.8	.0		98.3	1.5	.1	21.6	1.9	76.6		14.6	
1997	95.8	2.8	21.5	77.3	.1		98.7	1.2	.1	23.9	1.6	74.3	.2	11.6	
1998	95.6	3.0	19.3	79.9	.1		99.7		.3	19.5	1.6	78.1	.8	22.0	
1999	96.0	3.1	17.6	81.2	.1		99.6	.2	.2	19.7	2.0	76.4	1.8	18.7	
2000	95.2	2.9	17.0	80.7	.0		99.5		.5	20.8	1.7	75.4	2.2	24.7	
2001	95.9	3.1	17.2	80.7	.4		99.5		.5	18.0	.7	77.7	3.7	31.7	
2002	95.2	3.7	16.9	81.9	.7		99.2		.8	16.8	.6	78.8	3.7	42.8	.6
2003	95.4	3.5	15.8	82.6	1.6		99.3		.7	7.6		88.1	4.3	52.1	1.1
2004	95.3	3.6	14.4	82.5	2.7		99.4		.6	4.0		92.5	3.5	55.1	1.9
2005	94.4	4.3	13.0	83.0	3.8		99.3		.7	5.6		92.9	1.5	66.6	3.4
2006	94.5	4.4	13.5	82.8	3.6		98.9		1.1	4.5		95.3	.2	73.0	2.9
2007	95.4	3.4	10.9	74.5	14.6		100.0			2.9		97.1		69.6	5.8
2008	94.2	4.1	13.9	69.5	16.7		2.4	97.6		.7		99.3		70.6	6.5

Table J-5

Characteristics of 1975 to 2008 Five-Cylinder Cars

MODEL YEAR	SALES (000)	FRAC	<---- FUEL ECONOMY ---->				WGHT LB	VOL CU-FT	ENGINE		0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT- TON-MPG
			LAB 55/45	ADJ CITY	ADJ HWY	ADJ COMP			CID	HP							
1975	5	.001	26.8	21.5	24.5	22.8	3500		183	77	19.3	95	.421	.0220	39.8		
1976	12	.001	24.4	20.0	21.7	20.7	4000		183	77	21.5	93	.421	.0192	41.4		
1977	12	.001	24.9	20.7	21.6	21.1	4000	105.0	183	77	21.5	93	.421	.0192	42.2	2214	4428
1978	39	.003	20.9	16.5	19.6	17.8	3411	103.6	152	102	15.1	106	.690	.0306	31.5	1873	3249
1979	43	.004	22.8	18.4	20.7	19.4	3596	106.0	162	100	16.1	104	.636	.0284	35.9	2090	3818
1980	66	.007	23.8	18.7	22.6	20.3	3357	105.3	152	92	16.3	102	.630	.0281	35.4	2208	3744
1981	59	.007	25.4	20.1	23.8	21.6	3358	105.3	155	98	15.6	104	.650	.0297	37.4	2330	3971
1982	58	.007	26.9	21.5	24.7	22.9	3601	105.8	163	114	14.3	108	.705	.0319	42.3	2460	4501
1983	64	.008	27.4	22.0	25.1	23.3	3660	106.1	165	114	14.5	108	.696	.0313	43.6	2505	4638
1984	116	.011	24.6	19.4	23.3	21.0	3326	110.3	148	109	13.9	109	.748	.0330	35.8	2334	3929
1985	99	.009	24.0	18.9	22.8	20.5	3360	110.2	151	117	13.3	111	.788	.0352	34.9	2265	3837
1986	71	.006	23.3	17.9	22.7	19.8	3035	111.0	136	116	12.3	114	.854	.0383	30.2	2206	3357
1987	44	.004	23.9	18.3	23.0	20.2	3095	110.7	139	127	11.7	117	.914	.0409	31.7	2253	3499
1988	18	.002	24.3	18.4	23.7	20.5	3047	104.6	140	129	11.4	119	.920	.0422	31.5	2155	3288
1989	15	.002	23.8	18.0	22.8	20.0	3415	108.5	140	135	12.0	117	.969	.0398	34.3	2173	3725
1990	18	.002	23.9	18.0	22.8	20.0	3407	105.1	141	138	11.8	118	.980	.0406	34.4	2124	3628
1991	15	.002	24.5	18.1	24.0	20.5	3460	106.7	142	141	11.9	119	1.002	.0407	36.1	2230	3870
1992	27	.003	26.1	19.2	25.1	21.7	3497	100.9	150	170	10.3	129	1.135	.0486	38.2	2210	3865
1993	41	.005	27.1	19.5	26.7	22.5	3509	108.2	149	169	10.3	128	1.133	.0481	39.6	2445	4288
1994	54	.006	26.1	18.7	25.8	21.7	3504	114.7	147	184	9.7	134	1.252	.0524	38.0	2491	4363
1995	60	.006	26.5	18.7	26.5	22.0	3512	118.6	146	185	9.6	134	1.271	.0528	38.6	2609	4579
1996	84	.011	26.3	18.5	25.9	21.7	3500	115.6	148	180	9.8	133	1.221	.0515	38.0	2513	4398
1997	51	.006	26.2	18.3	25.8	21.6	3500	117.1	148	181	9.7	133	1.224	.0518	37.8	2532	4432
1998	97	.012	25.7	17.9	25.0	21.1	3609	120.1	148	185	9.8	133	1.251	.0514	38.0	2530	4571
1999	64	.008	26.2	18.2	25.3	21.4	3663	121.2	148	180	10.1	131	1.213	.0492	39.2	2598	4750
2000	60	.007	26.0	17.9	25.1	21.2	3667	121.3	148	182	10.0	131	1.233	.0497	38.8	2571	4710
2001	82	.010	25.9	18.0	24.2	20.9	3745	121.3	148	195	9.7	135	1.322	.0522	39.4	2546	4764
2002	77	.009	27.0	18.4	25.5	21.8	3769	118.8	148	191	9.9	133	1.287	.0507	41.0	2584	4880
2003	36	.005	26.8	18.1	25.6	21.6	3778	118.7	150	191	9.9	133	1.270	.0506	40.9	2572	4866
2004	109	.015	26.8	18.0	25.4	21.6	3804	119.2	152	199	9.7	135	1.312	.0524	41.1	2571	4896
2005	134	.017	27.6	18.3	26.1	22.1	3656	113.9	152	183	10.1	131	1.202	.0498	40.4	2513	4602
2006	190	.024	28.5	18.8	27.2	22.8	3562	107.4	151	171	10.3	129	1.130	.0480	40.6	2445	4366
2007	201	.025	28.6	18.9	27.2	22.9	3541	107.1	151	166	10.5	127	1.096	.0468	40.5	2447	4336
2008	173	.020	29.4	19.4	27.9	23.5	3496	104.5	151	178	9.8	132	1.175	.0509	41.0	2454	4286

Percent of Five-Cylinder Cars:

MODEL YEAR	DRIVETRAIN		TRANSMISSION		CVT	FUEL METERING				NUMBER OF VALVES				VVT HYBRID	
	FRONT	4WD	MANUAL	LOCK		GDI	PORT	TBI	DSL	TWO	THREE	FOUR	FIVE		
1975															100.0
1976															100.0
1977															100.0
1978	58.9			8.1			58.9								41.1
1979	40.4			8.9			38.0								62.0
1980	56.6			18.5			41.9								58.1
1981	51.0			21.5			40.8								59.2
1982	37.1			11.0			35.3								64.7
1983	32.2	.8		11.7			29.0								71.0
1984	65.8	2.6		18.2			68.4								31.6
1985	63.1	4.1		15.6			67.3								32.7
1986	84.9	12.6		28.4			97.5								2.5
1987	70.4	24.0		36.5			94.4								100.0
1988	60.5	36.0		56.1			96.5								100.0
1989	86.8	10.9		29.2			97.7								100.0
1990	74.5	19.0		30.8			93.5								6.5
1991	69.0	16.4		24.5	55.2		85.4								86.9
1992	88.6	1.1		17.1	72.5		89.7								13.8
1993	93.3	1.8		15.7	79.4		100.0								13.4
1994	99.1	.9		9.8	90.2		100.0								4.9
1995	97.6	2.4		8.7	91.3		100.0								95.1
1996	100.0			4.8	95.2		100.0								100.0
1997	100.0			3.2	96.8		100.0								100.0
1998	78.6	21.4		3.3	96.7		100.0								100.0
1999	72.6	27.4		2.6	97.4		100.0								100.0
2000	74.9	25.1		1.9	98.1		100.0								100.0
2001	67.1	32.9		2.6	97.4		100.0								100.0
2002	73.2	26.8		1.7	98.3		100.0								100.0
2003	64.5	25.1		4.0	96.0		100.0								100.0
2004	62.4	37.6		3.8	96.2		100.0								100.0
2005	76.3	23.7		11.2	88.8		100.0								100.0
2006	86.1	13.9		11.3	88.7		100.0								100.0
2007	89.0	11.0		12.7	87.3		100.0								100.0
2008	96.1	3.9		19.7	80.3		48.1	51.9							100.0

Table J-6

Characteristics of 1975 to 2008 Six-Cylinder Cars

MODEL YEAR	SALES (000)	<----> FUEL ECONOMY LAB ADJ ADJ ADJ 55/45 CITY HWY COMP	WGHT LB	VOL CU-FT	ENGINE CID HP	0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT- TON-MPG					
1975	1533	.186	18.4	14.6	17.2	15.7	3625	225	105	15.7	105	.485	.0295	28.5			
1976	1935	.199	19.3	15.4	17.9	16.4	3715	231	100	16.7	103	.445	.0273	30.6			
1977	1851	.164	19.6	15.6	18.2	16.7	3753	106.6	229	105	16.1	104	.471	.0284	31.4	1782	3364
1978	2325	.208	20.2	15.9	19.2	17.2	3482	108.6	221	107	14.8	107	.495	.0311	30.0	1878	3273
1979	2187	.203	20.4	16.1	19.2	17.4	3421	108.8	217	109	14.4	108	.508	.0319	29.7	1893	3245
1980	2644	.280	21.6	16.9	20.6	18.4	3332	111.0	213	110	13.9	109	.530	.0334	30.7	2050	3411
1981	2394	.274	22.6	17.6	21.7	19.2	3382	111.6	215	110	14.1	108	.522	.0328	32.6	2153	3650
1982	2080	.266	23.0	17.7	22.5	19.6	3404	112.9	213	114	13.8	110	.548	.0338	33.5	2230	3802
1983	1858	.232	23.8	18.3	23.5	20.3	3373	111.0	211	116	13.6	111	.565	.0346	34.3	2265	3824
1984	2455	.230	24.1	18.5	23.8	20.5	3364	111.3	205	117	13.4	111	.586	.0350	34.6	2291	3854
1985	2498	.232	24.1	18.2	24.3	20.6	3387	111.8	206	124	12.9	114	.617	.0368	34.8	2304	3902
1986	2694	.245	24.9	18.7	25.5	21.2	3377	112.0	200	134	12.1	117	.683	.0398	35.9	2391	4045
1987	2489	.232	25.1	18.5	26.1	21.4	3414	112.9	198	143	11.6	120	.733	.0419	36.5	2423	4138
1988	2985	.278	25.9	18.9	26.8	21.9	3397	113.6	193	142	11.5	120	.744	.0418	37.4	2505	4257
1989	3157	.315	25.7	18.6	26.6	21.7	3423	114.8	194	146	11.4	121	.762	.0429	37.2	2502	4281
1990	2989	.339	25.4	18.3	26.4	21.5	3504	114.0	197	150	11.4	122	.773	.0431	37.7	2457	4305
1991	2635	.309	25.3	18.2	26.0	21.3	3490	113.6	197	156	11.0	124	.796	.0448	37.2	2429	4240
1992	3067	.378	25.4	18.0	26.2	21.3	3500	114.3	199	158	10.9	125	.810	.0454	37.3	2442	4274
1993	3255	.385	25.8	18.3	26.2	21.5	3488	113.9	199	158	10.9	125	.805	.0454	37.6	2462	4294
1994	3127	.372	25.6	18.0	26.0	21.3	3534	113.2	198	159	10.9	125	.812	.0451	37.7	2419	4274
1995	3667	.390	26.0	18.2	26.6	21.7	3532	113.1	195	172	10.3	129	.888	.0487	38.3	2457	4336
1996	3020	.383	26.1	18.1	26.5	21.6	3552	113.6	194	172	10.3	129	.894	.0485	38.4	2460	4372
1997	3006	.361	25.9	17.8	26.3	21.4	3574	114.5	197	179	10.1	131	.918	.0502	38.3	2457	4395
1998	3090	.388	26.2	17.9	26.5	21.6	3542	113.3	194	180	10.0	132	.934	.0507	38.3	2451	4344
1999	3589	.428	26.2	17.8	26.2	21.5	3577	113.2	192	186	9.8	134	.980	.0521	38.5	2438	4366
2000	3910	.428	26.3	17.8	26.2	21.5	3585	113.9	191	189	9.7	135	1.001	.0528	38.6	2459	4412
2001	3463	.412	26.3	17.8	26.0	21.5	3586	112.9	191	194	9.5	136	1.025	.0540	38.6	2433	4365
2002	3273	.394	26.6	17.9	25.9	21.6	3606	113.0	195	200	9.3	138	1.036	.0555	39.0	2451	4417
2003	3118	.392	26.8	17.9	26.2	21.7	3602	112.3	194	201	9.3	139	1.040	.0558	39.2	2449	4411
2004	3087	.410	26.6	17.6	25.8	21.5	3692	113.5	199	209	9.1	140	1.061	.0567	39.7	2448	4525
2005	2927	.365	26.7	17.6	25.8	21.5	3776	115.9	202	214	9.1	141	1.066	.0566	40.7	2503	4736
2006	3068	.384	26.8	17.7	25.7	21.5	3837	115.5	202	225	8.8	144	1.119	.0588	41.4	2494	4798
2007	2631	.328	26.9	17.7	26.0	21.7	3880	114.0	206	232	8.7	146	1.135	.0600	42.2	2481	4826
2008	2890	.339	26.9	17.7	26.2	21.7	3939	113.4	207	243	8.5	149	1.180	.0619	42.8	2468	4873

Percent of Six-Cylinder Cars:

MODEL YEAR	DRIVETRAIN		TRANSMISSION			FUEL METERING				NUMBER OF VALVES					
	FRONT	4WD	MANUAL	LOCK	CVT	GDI	PORT	TBI	DSL	TWO	THREE	FOUR	FIVE	VVT	HYBRID
1975			19.3				8.3								
1976			15.2				4.7								
1977			11.9				6.7								
1978			9.1	8.3			5.3								
1979	.5		9.1	8.2			6.9								
1980	22.0	1.5	8.2	25.7			4.3		.2						
1981	14.2	.8	5.4	58.8			6.8		.3						
1982	19.5	1.1	5.3	89.3			9.8	8.0	2.6						
1983	22.4	1.7	6.6	90.1			12.3		2.0						
1984	31.5	.9	6.1	91.9			21.0	8.8	1.4						
1985	48.6	.0	6.3	92.7			41.1	21.6	.6						
1986	63.4	.3	6.9	91.1			64.7	15.4	.3	98.9		1.1			
1987	73.0	.2	7.9	89.2			88.8	7.9	.8	95.9		4.1			
1988	83.8	.2	5.8	92.5			97.6	2.3		93.7	1.0	5.3			
1989	84.1	.3	5.0	93.0			99.8	.2		93.2	.7	6.1			
1990	86.3	.1	3.9	94.3			99.8	.1	.0	91.5	.1	8.3			
1991	87.8	.4	4.3	93.6			99.9	.1	.1	90.0	.1	9.9		.6	
1992	88.6	1.3	4.2	93.1			99.9	.1	.0	85.8	.4	13.8		3.1	
1993	88.2	.3	4.3	93.8			100.0	.0		81.9		18.1		2.6	
1994	86.4	.2	4.3	94.2			100.0		.0	79.3		20.7		2.2	
1995	87.4	.2	4.4	93.9			99.8		.2	70.2		29.8		6.7	
1996	88.9	.7	4.2	94.3			99.9		.1	65.9		34.1		8.3	
1997	87.8	.6	3.5	96.5			99.9		.1	64.3	.4	35.3		9.8	
1998	87.8	1.1	4.0	96.0			99.9		.1	63.1	1.6	34.2	1.2	13.3	
1999	87.9	1.1	4.0	95.8			99.9		.1	49.9	1.9	46.3	1.9	16.2	
2000	85.7	1.0	5.0	94.9			100.0			48.1	1.3	48.9	1.7	22.8	
2001	82.1	3.1	4.9	94.9			100.0			48.7	2.5	45.9	2.8	25.0	
2002	83.3	4.0	3.8	96.0	.1		100.0			46.5	2.8	48.5	2.2	23.6	
2003	77.7	3.7	5.2	94.5	.2		100.0			47.2	3.2	47.3	2.3	31.8	
2004	76.9	6.6	4.5	95.3	.1		100.0			41.1	2.4	55.0	1.5	33.6	
2005	72.4	7.1	3.1	95.4	1.4		99.8		.2	41.5	2.1	55.9	.5	33.0	.7
2006	63.8	7.2	3.7	94.6	1.6		99.8		.2	32.8	.5	66.5	.1	52.5	.1
2007	67.6	8.5	3.8	92.4	3.9		99.7		.3	33.4	.3	66.2		67.7	.3
2008	62.6	12.2	4.0	91.7	4.3	2.3	97.6		.1	22.6	.3	77.0		64.8	.1

Table J-7

Characteristics of 1975 to 2008 Eight-Cylinder Cars

MODEL YEAR	SALES (000)	FRAC	<---- FUEL ECONOMY ---->				WGHT LB	VOL CU-FT	ENGINE		0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT- TON-MPG
			LAB 55/45	ADJ CITY	ADJ HWY	ADJ COMP			CID	HP							
1975	4840	.588	13.4	10.5	12.9	11.5	4732		376	167	13.4	117	.446	.0354	27.3		
1976	5728	.589	15.1	11.9	14.4	12.9	4689		368	165	13.4	116	.448	.0352	30.3		
1977	7132	.631	16.2	12.7	15.3	13.8	4450	119.0	348	158	13.2	116	.455	.0356	30.8	1651	3665
1978	5882	.526	17.2	13.4	16.7	14.7	4166	119.2	335	154	12.8	117	.460	.0371	30.8	1777	3680
1979	5354	.496	17.6	13.8	16.7	15.0	4060	120.6	324	149	12.9	116	.460	.0368	30.6	1826	3698
1980	2169	.230	19.1	14.7	18.7	16.3	3920	120.6	309	135	13.6	113	.439	.0346	32.4	1999	3939
1981	1778	.204	20.2	15.4	20.3	17.3	3973	123.0	307	133	14.0	112	.440	.0337	34.9	2168	4331
1982	1377	.176	20.3	15.3	20.7	17.3	3940	123.4	305	138	13.5	114	.457	.0355	34.6	2169	4320
1983	1859	.232	20.1	15.1	20.6	17.2	3946	125.0	298	143	12.9	115	.482	.0364	34.0	2154	4274
1984	2316	.217	20.3	15.3	20.9	17.4	3913	122.3	300	144	12.8	116	.483	.0371	34.1	2130	4202
1985	2229	.207	21.7	16.3	22.4	18.6	3895	122.8	296	151	12.4	118	.509	.0389	36.2	2284	4471
1986	1651	.150	22.5	16.7	23.4	19.2	3813	120.2	299	152	12.0	120	.511	.0403	36.6	2315	4440
1987	1387	.129	22.2	16.4	22.9	18.9	3846	120.2	299	155	12.0	120	.520	.0407	36.3	2278	4406
1988	1247	.116	22.6	16.5	23.4	19.2	3854	121.5	301	164	11.6	123	.544	.0430	37.0	2338	4540
1989	1070	.107	22.7	16.5	23.6	19.2	3831	121.5	300	160	11.6	122	.535	.0423	36.9	2342	4523
1990	812	.092	22.3	16.1	23.3	18.9	3947	121.4	294	173	11.3	125	.597	.0441	37.3	2299	4568
1991	905	.106	22.8	16.3	23.7	19.2	3947	122.0	298	198	10.0	134	.669	.0504	37.9	2351	4672
1992	951	.117	22.9	16.3	23.8	19.3	4006	124.1	295	208	9.8	136	.714	.0523	38.7	2406	4847
1993	791	.094	22.8	16.0	23.8	19.1	4010	123.8	296	215	9.6	139	.736	.0542	38.4	2382	4805
1994	933	.111	22.9	16.1	23.7	19.2	3989	121.2	292	225	9.2	142	.776	.0566	38.3	2330	4678
1995	1013	.108	22.9	15.9	23.8	19.1	4005	120.3	289	230	9.0	143	.803	.0575	38.3	2307	4642
1996	775	.098	23.3	16.1	24.1	19.4	4018	122.9	289	241	8.7	147	.841	.0602	39.0	2385	4816
1997	780	.094	23.2	16.0	23.7	19.3	4001	122.2	279	247	8.5	149	.891	.0620	38.6	2356	4719
1998	672	.084	23.1	15.9	23.3	19.1	3971	117.6	280	256	8.2	153	.918	.0647	38.0	2251	4486
1999	666	.079	23.2	15.8	23.5	19.2	3968	119.0	283	251	8.4	151	.890	.0635	38.0	2284	4550
2000	743	.081	23.3	15.8	23.4	19.2	3986	117.5	281	277	7.7	159	.989	.0697	38.3	2264	4531
2001	674	.080	23.4	15.8	23.5	19.2	3994	116.6	279	261	8.2	154	.939	.0657	38.4	2245	4507
2002	618	.074	23.5	15.8	23.1	19.2	4002	109.3	281	270	8.0	157	.964	.0680	38.4	2104	4232
2003	655	.082	23.1	15.5	22.8	18.9	4178	107.7	281	276	8.1	156	.985	.0669	39.5	2058	4335
2004	555	.074	23.2	15.3	23.0	18.9	4181	113.3	282	277	8.2	157	.984	.0671	39.6	2151	4552
2005	574	.072	23.2	15.4	22.7	18.8	4226	112.7	294	297	7.8	163	1.011	.0713	39.9	2132	4558
2006	673	.084	22.8	15.1	22.5	18.6	4214	115.1	304	311	7.4	167	1.025	.0747	39.2	2146	4559
2007	539	.067	22.5	14.8	22.3	18.4	4270	112.6	308	327	7.3	172	1.063	.0777	39.3	2072	4469
2008	654	.077	22.6	14.9	22.4	18.4	4235	115.5	301	314	7.5	168	1.046	.0749	39.1	2138	4551

Percent of Eight-Cylinder Cars:

MODEL YEAR	DRIVETRAIN		TRANSMISSION			FUEL METERING				NUMBER OF VALVES						
	FRONT	4WD	MANUAL	LOCK	CVT	GDI	PORT	TBI	DSL	TWO	THREE	FOUR	FIVE	VVT	HYBRID	
1975	1.7		1.6					.7								
1976	2.0		1.2					1.4								
1977	1.8		1.0					1.1								
1978	2.1		1.2	9.5				1.9		.6						
1979	3.7		1.4	12.9				2.2		2.6						
1980	7.6		.8	40.5				1.4	3.0	9.8						
1981	8.8		1.1	80.4				.8	13.0	16.8						
1982	5.5		3.9	90.8				1.3	9.1	11.7						
1983	9.6		3.5	95.5				1.0	34.4	2.2						
1984	9.3		3.2	95.8				5.2	32.5	.7						
1985	18.2		2.5	96.0				5.1	42.4	.1						
1986	12.2		4.3	93.2				36.2	12.2		99.8		.2			
1987	14.2		4.4	92.4				42.0	13.9		99.8		.2			
1988	16.4		6.2	91.5				56.4	19.8		99.8		.2			
1989	21.2		7.2	90.3				54.0	36.9		99.8		.2			
1990	28.4		6.7	91.4				85.9	10.1		92.2		7.8	6.6		
1991	20.5	.1	5.1	92.7				70.9	29.1		92.6		7.4	6.4		
1992	21.9	.0	3.7	94.3				78.6	21.4		91.6		8.4	8.9		
1993	23.2	.0	5.3	92.8				84.7	15.3		83.4		16.6	7.3		
1994	19.3	.0	6.1	92.3				100.0			78.1		21.9	7.2		
1995	24.1		6.5	91.4				100.0			73.5		26.4	.1	6.8	
1996	27.9		6.7	93.3				100.0			63.8		36.2	.0	5.4	
1997	28.3	.3	5.2	94.8				100.0			55.3		44.6	.1	12.8	
1998	32.5	.3	7.2	92.8				100.0			47.4	.8	51.8	.1	15.4	
1999	31.4	.3	7.8	92.1				100.0			55.3	3.6	40.9	.2	8.5	
2000	22.0	.8	8.2	91.8				100.0			51.3	4.9	42.9	.9	11.3	
2001	24.1	1.4	9.3	90.7				100.0			46.5	8.4	44.0	1.1	15.3	
2002	23.7	1.0	10.9	89.1				100.0			39.9	8.0	51.5	.6	17.3	
2003	15.5	5.8	9.7	90.3				100.0			48.5	12.9	38.0	.7	13.7	
2004	15.0	4.8	10.2	89.8				100.0			46.8	9.2	40.7	3.3	21.1	
2005	11.2	5.7	10.5	89.3				100.0			47.3	16.9	33.2	2.6	30.4	
2006	17.4	4.8	8.9	90.8				100.0			49.7	19.1	29.5	1.5	28.6	
2007	14.8	7.9	12.1	87.8				100.0			41.1	12.5	46.0	.4	36.4	
2008	27.4	6.5	9.8	89.6				1.8	98.2		35.0	10.0	54.6	.4	28.3	.6

Table J-8

Characteristics of 1975 to 2008 Four-Cylinder Vans

MODEL YEAR	SALES (000)	FRAC	<---- FUEL ECONOMY ---->	WGHT LB	ENGINE CID	HP	0-60 TIME	TOP SPD	HP/CID	HP/WT	TON -MPG			
			LAB 55/45	ADJ CITY	ADJ HWY	ADJ COMP								
1975	2	.004	20.6	16.2	19.6	17.5	3498	118	78	19.1	96	.656	.0224	30.7
1976	1	.003	19.9	15.1	20.1	17.0	3500	120	67	20.9	92	.558	.0191	29.8
1977	2	.004	22.2	17.2	21.5	18.9	3500	120	67	20.8	92	.558	.0191	33.1
1978	3	.004	20.0	15.7	19.1	17.0	3500	120	67	20.9	92	.558	.0191	29.8
1979	8	.018	18.7	14.8	17.6	16.0	3500	120	67	20.9	92	.558	.0191	28.0
1980	16	.065	19.0	14.7	18.6	16.2	3618	120	67	21.4	91	.558	.0186	29.4
1981	11	.046	18.5	14.6	17.4	15.8	3644	120	67	21.6	91	.558	.0185	28.7
1982	15	.048	21.7	17.7	19.4	18.4	3668	111	61	23.4	89	.550	.0168	35.6
1983	14	.037	19.7	15.6	18.4	16.8	3567	118	69	20.9	92	.583	.0194	30.3
1984	217	.321	24.7	19.7	22.8	21.0	3380	136	94	15.8	103	.694	.0281	35.7
1985	341	.399	24.0	19.2	22.1	20.4	3409	142	97	15.5	104	.690	.0287	34.9
1986	354	.339	24.7	19.6	22.9	20.9	3425	146	99	15.4	104	.681	.0290	36.0
1987	268	.241	24.6	19.3	22.7	20.7	3401	143	100	15.2	105	.702	.0296	35.4
1988	143	.127	25.3	19.8	23.2	21.3	3464	145	98	15.7	103	.678	.0283	37.0
1989	224	.176	24.7	19.2	22.6	20.7	3505	149	110	14.7	107	.743	.0316	36.3
1990	101	.080	25.5	19.5	23.6	21.3	3544	149	109	15.0	107	.736	.0310	37.8
1991	146	.141	23.9	18.2	22.2	19.9	3791	148	120	14.5	109	.814	.0316	37.8
1992	141	.116	25.0	18.8	23.2	20.7	3588	145	117	14.1	109	.812	.0325	37.2
1993	92	.064	24.6	18.3	23.1	20.4	3638	147	118	14.2	109	.809	.0324	37.2
1994	66	.046	24.7	18.3	23.0	20.4	3604	149	116	14.4	109	.782	.0322	36.8
1995	87	.053	25.1	18.6	22.9	20.6	3621	143	130	13.2	114	.921	.0360	37.2
1996	66	.047	24.8	18.2	22.9	20.3	3817	142	149	12.1	118	1.050	.0392	38.9
1997	66	.053	24.9	18.1	22.9	20.3	3831	142	144	12.5	116	1.008	.0375	39.0
1998	139	.094	25.2	17.8	24.0	20.6	3941	165	173	11.1	125	1.047	.0439	40.7
1999	132	.090	24.8	17.4	23.5	20.2	3999	166	171	11.4	124	1.027	.0428	40.4
2000	62	.037	26.0	18.2	24.4	21.1	4000	148	150	12.5	117	1.014	.0375	42.1
2001	29	.023	25.4	18.0	22.9	20.4	4000	148	150	12.5	117	1.014	.0375	40.8
2002	38	.031	25.6	17.6	24.2	20.7	4000	148	150	12.5	117	1.014	.0375	41.4
2003	20	.017	26.9	18.4	25.1	21.6	4000	148	150	12.5	117	1.014	.0375	43.2
2004	6	.006	25.9	17.5	24.2	20.8	4000	148	150	12.5	117	1.014	.0375	41.5
2005	20	.014	25.9	17.4	24.1	20.7	4000	148	150	12.5	117	1.014	.0375	41.4
2006	18	.015	25.9	17.4	24.1	20.7	4000	148	150	12.5	117	1.014	.0375	41.4
2007	10	.012	25.9	17.4	24.1	20.7	4000	148	150	12.5	117	1.014	.0375	41.4

Percent of Four-Cylinder Vans:

MODEL YEAR	DRIVETRAIN			TRANSMISSION			FUEL METERING				NUMBER OF VALVES				
	FRONT	4WD		MANUAL	LOCK	CVT	GDI	PORT	TBI	DSL	TWO	THREE	FOUR	FIVE	VVT HYBRID
1975				43.3						61.1					
1976				84.8						100.0					
1977				89.9						100.0					
1978				85.0						100.0					
1979				81.2						100.0					
1980				82.9						100.0					
1981				81.2						100.0					
1982				89.0						61.7	38.3				
1983	4.2			76.9						93.6	6.4				
1984	69.5			30.2	19.1			20.7	9.8		.9				
1985	76.0	.9		19.9	15.3			15.8	7.4						
1986	72.0	3.8		17.8	19.9			21.8	2.4						
1987	59.8	8.0		19.9	32.5			31.1	10.3						
1988	67.7	6.2		18.1	27.8			31.6	68.4						
1989	83.9	3.4		9.6	14.2			46.0	54.0						
1990	80.2	6.9		14.1	70.3			44.7	55.3						
1991	34.0	11.2		7.5	90.6			70.4	29.6						
1992	61.9	9.4		11.9	88.1			62.0	38.0						
1993	59.8	4.7		9.8	90.2			53.1	46.9						
1994	66.7	10.1		7.8	92.2			44.2	55.8		62.9	7.4	29.8		
1995	71.1	10.6		1.3	98.7			67.4	32.6		32.6		67.4		
1996	87.7	1.8		.1	99.9			100.0					100.0		
1997	92.7	2.0			100.0			100.0					100.0		
1998	100.0				100.0			100.0					100.0		
1999	100.0				100.0			100.0					100.0		
2000	100.0				100.0			100.0					100.0		
2001	100.0				100.0			100.0					100.0		
2002	100.0				100.0			100.0					100.0		
2003	100.0				100.0			100.0					100.0		
2004	100.0				100.0			100.0					100.0		
2005	100.0				100.0			100.0					100.0		
2006	100.0				100.0			100.0					100.0		
2007	100.0				100.0			100.0					100.0		

Table J-9

Characteristics of 1975 to 2008 Five-Cylinder Vans

MODEL YEAR	SALES (000)	FRAC	<---- FUEL ECONOMY ---->			WGHT LB	ENGINE		0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG	
			LAB 55/45	ADJ CITY	ADJ HWY		ADJ COMP	CID						HP
1993	11	.007	21.0	16.0	19.0	17.4	4157	150	109	16.6	103	.727	.0263	36.1
1994	0	.000	20.1	15.1	18.6	16.6	4260	150	109	16.8	102	.727	.0257	35.4
1995	2	.001	19.6	14.8	17.5	16.1	5000	150	109	19.1	98	.727	.0218	40.2

Percent of Five-Cylinder Vans:

MODEL YEAR	DRIVETRAIN		TRANSMISSION			FUEL METERING				NUMBER OF VALVES					VVT HYBRID
	FRONT	4WD	MANUAL	LOCK	CVT	GDI	PORT	TBI	DSL	TWO	THREE	FOUR	FIVE		
1993	100.0		35.7	64.3		100.0									
1994	100.0		48.0	52.0		100.0				100.0					
1995	100.0		43.8	56.2		100.0				100.0					

Table J-10

Characteristics of 1975 to 2008 Six-Cylinder Vans

MODEL YEAR	SALES (000)	FRAC	<---- FUEL ECONOMY ---->			WGHT LB	ENGINE		0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG	
			LAB 55/45	ADJ CITY	ADJ HWY		ADJ COMP	CID						HP
1975	117	.256	16.3	13.0	14.9	13.8	3967	271	102	16.9	101	.380	.0257	27.8
1976	128	.255	17.4	14.1	15.6	14.7	4023	271	102	17.1	101	.380	.0253	29.9
1977	107	.208	18.0	14.7	16.1	15.3	4039	278	113	15.9	105	.408	.0280	30.9
1978	152	.244	17.2	14.1	15.3	14.6	4086	280	119	15.3	106	.430	.0293	30.0
1979	96	.200	16.6	13.6	14.7	14.1	4233	263	121	15.5	106	.465	.0287	30.1
1980	114	.473	18.4	14.7	16.9	15.6	4182	266	118	15.6	105	.449	.0284	32.7
1981	119	.488	18.7	15.0	17.1	15.9	4191	268	117	15.9	105	.438	.0279	33.3
1982	121	.389	18.7	15.0	17.3	15.9	4181	266	111	16.5	103	.419	.0266	33.4
1983	117	.307	18.9	15.1	17.4	16.1	4206	265	110	16.7	103	.418	.0263	33.9
1984	144	.214	18.6	14.7	17.4	15.8	4118	272	112	16.2	104	.413	.0273	32.8
1985	182	.213	20.6	16.2	19.6	17.6	4002	269	136	13.8	113	.509	.0343	35.4
1986	391	.374	20.9	16.1	20.1	17.7	4049	237	132	14.2	111	.574	.0327	36.0
1987	566	.509	21.8	16.8	21.0	18.5	3930	219	149	12.5	117	.703	.0381	36.4
1988	735	.649	22.2	16.8	21.6	18.8	3940	213	149	12.5	117	.722	.0380	37.0
1989	777	.608	22.1	16.7	21.4	18.6	3992	212	146	12.8	116	.713	.0367	37.3
1990	935	.741	22.2	16.6	21.4	18.6	4011	208	144	13.0	115	.705	.0360	37.4
1991	742	.718	22.0	16.5	21.1	18.4	4084	212	147	13.0	115	.706	.0360	37.8
1992	902	.739	22.1	16.4	21.2	18.5	4118	213	149	13.0	116	.711	.0362	38.1
1993	1174	.815	22.5	16.5	21.7	18.7	4047	208	152	12.6	117	.742	.0377	37.8
1994	1160	.818	22.2	16.2	21.2	18.4	4085	213	154	12.5	118	.734	.0378	37.7
1995	1375	.828	22.5	16.2	21.7	18.6	4050	221	155	12.4	118	.711	.0384	37.7
1996	1230	.873	22.7	16.2	21.9	18.7	4148	214	167	11.9	121	.788	.0405	38.9
1997	1069	.845	22.5	16.0	21.6	18.5	4178	213	169	11.9	122	.800	.0406	38.8
1998	1250	.839	23.0	16.2	22.2	18.9	4136	214	177	11.4	125	.826	.0428	39.1
1999	1200	.820	22.7	15.8	21.9	18.6	4254	218	178	11.5	124	.822	.0420	39.6
2000	1523	.900	23.1	16.1	22.2	18.9	4234	212	180	11.4	125	.860	.0427	40.0
2001	961	.780	23.6	16.3	22.5	19.2	4310	210	191	11.0	128	.920	.0446	41.5
2002	1140	.917	23.4	16.1	22.2	19.0	4368	214	199	10.8	129	.936	.0456	41.6
2003	1148	.932	23.8	16.2	22.6	19.2	4345	215	199	10.7	130	.933	.0459	41.9
2004	907	.951	23.9	16.1	23.0	19.4	4447	215	212	10.4	133	.994	.0478	43.2
2005	1425	.963	24.1	16.1	22.9	19.4	4413	214	208	10.5	132	.979	.0473	42.9
2006	1103	.946	24.5	16.3	23.4	19.7	4451	214	211	10.5	132	.989	.0473	44.0
2007	855	.976	24.4	16.3	23.3	19.7	4451	219	225	10.0	136	1.031	.0504	43.8
2008	867	.973	24.8	16.5	23.6	19.9	4527	217	221	10.4	135	1.023	.0489	45.2

Percent of Six-Cylinder Vans:

MODEL YEAR	DRIVETRAIN		TRANSMISSION			FUEL METERING				NUMBER OF VALVES					VVT	HYBRID
	FRONT	4WD	MANUAL	LOCK	CVT	GDI	PORT	TBI	DSL	TWO	THREE	FOUR	FIVE			
1975			16.8													
1976			21.7													
1977			15.5													
1978			14.0													
1979			43.1	9.2												
1980			40.3	33.0												
1981			34.6	35.1												
1982			27.5	38.3												
1983			26.6	40.8												
1984			22.2	44.4												
1985			8.4	71.0												
1986			6.3	76.7			19.1	41.2	.5							
1987	25.9		3.5	86.7			63.4	33.6								
1988	42.7		2.2	90.7			70.2	29.8								
1989	32.2		2.1	91.8			71.0	29.0								
1990	54.4	8.1	.6	96.0			66.6	33.4								
1991	46.5	13.0	.4	97.4			68.2	31.8								
1992	51.7	6.0	.3	98.1			76.9	23.1								
1993	55.5	5.2	.3	97.9			84.9	15.1								
1994	60.1	7.3	.1	98.3			85.9	14.1		97.8	2.2					
1995	69.4	10.3		98.6			94.6	5.4		98.8	1.2					
1996	79.8	2.6		98.7			100.0			98.8	1.2					
1997	70.9	5.4		100.0			100.0			98.8	1.2					
1998	82.2	3.9		100.0			100.0			98.8		1.2				
1999	81.7	3.3		100.0			100.0			95.8		4.2				
2000	85.5	3.0		100.0			100.0			80.0		20.0			16.7	
2001	85.9	3.2		100.0			100.0			74.1		25.9			21.8	
2002	88.6	3.3		100.0			100.0			72.4		27.6			22.7	
2003	87.9	4.8		100.0			100.0			74.1		25.9			21.0	
2004	90.4	4.7		100.0			100.0			45.7		54.3			48.5	
2005	91.2	5.4		94.7	5.3		100.0			62.0		38.0			26.0	
2006	93.3	4.4		95.0	5.0		100.0			52.2		47.8			38.5	
2007	94.8	2.8		96.2	3.8		100.0			49.1		50.9			48.3	
2008	95.1	3.3		100.0			100.0			24.3		75.7			45.1	

Table J-11

Characteristics of 1975 to 2008 Eight-Cylinder Vans

MODEL YEAR	SALES (000)	FRAC	<---- FUEL ECONOMY ---->				WGHT LB	ENGINE CID	HP	0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG
			LAB 55/45	ADJ CITY	ADJ HWY	ADJ COMP								
1975	338	.741	12.2	9.9	11.1	10.4	4278	334	158	12.8	117	.470	.0370	22.5
1976	372	.742	12.9	10.3	12.0	11.0	4263	342	161	12.5	119	.470	.0380	23.6
1977	405	.788	14.0	11.4	12.7	11.9	4312	347	163	12.5	119	.471	.0380	25.8
1978	470	.752	13.5	11.0	12.0	11.4	4307	346	159	12.7	117	.460	.0371	24.8
1979	376	.782	12.9	10.5	11.4	10.9	4643	342	152	14.2	113	.445	.0328	25.6
1980	111	.462	14.9	11.9	13.7	12.7	4630	334	152	14.0	113	.456	.0330	29.4
1981	114	.466	16.3	13.0	15.0	13.8	4530	316	148	14.0	112	.469	.0328	31.5
1982	175	.563	16.2	13.0	14.8	13.8	4511	316	153	13.6	114	.486	.0340	31.3
1983	251	.656	17.1	13.6	16.0	14.6	4560	318	152	13.9	113	.481	.0335	33.9
1984	315	.465	16.4	13.0	15.5	14.0	4534	317	154	13.7	114	.487	.0341	32.2
1985	332	.389	15.9	12.6	14.7	13.5	4542	314	157	13.4	115	.501	.0348	30.9
1986	300	.287	16.9	13.4	15.8	14.4	4607	312	155	13.7	114	.497	.0338	33.2
1987	279	.251	16.9	13.1	16.0	14.3	4603	319	167	13.1	118	.521	.0363	33.0
1988	255	.225	17.2	13.2	16.4	14.6	4708	322	168	13.2	117	.520	.0359	34.4
1989	276	.216	17.0	12.9	16.3	14.3	4689	326	174	12.9	119	.533	.0374	33.8
1990	226	.179	17.1	12.9	16.4	14.4	4692	332	186	12.2	123	.560	.0400	33.8
1991	145	.141	17.1	12.7	16.5	14.3	4724	331	186	12.2	123	.560	.0397	33.9
1992	178	.146	17.0	12.7	16.3	14.2	4769	332	196	11.8	125	.590	.0416	34.0
1993	164	.114	17.5	12.8	16.9	14.6	4784	334	202	11.4	127	.606	.0425	34.9
1994	191	.135	17.2	12.6	16.6	14.4	4777	331	207	11.2	128	.626	.0437	34.3
1995	197	.119	17.4	12.7	16.7	14.5	4734	336	199	11.5	126	.594	.0423	34.3
1996	113	.080	17.2	12.4	16.6	14.3	4930	332	219	11.0	130	.660	.0447	35.3
1997	130	.103	18.0	12.9	17.3	14.9	4965	322	228	10.7	132	.709	.0460	37.1
1998	100	.067	17.9	12.7	17.3	14.8	5109	322	231	10.8	132	.720	.0454	37.8
1999	131	.090	17.8	12.5	17.1	14.6	5101	322	233	10.7	133	.726	.0458	37.3
2000	107	.063	17.7	12.5	16.9	14.5	5027	322	237	10.5	134	.738	.0473	36.6
2001	243	.197	17.6	12.3	16.9	14.4	5406	313	248	10.7	134	.795	.0460	39.0
2002	64	.052	17.4	12.3	16.1	14.2	5080	321	241	10.4	135	.753	.0476	36.2
2003	64	.052	18.3	12.9	16.7	14.8	5399	319	261	10.2	138	.819	.0484	40.0
2004	40	.042	19.1	13.3	17.5	15.4	5446	307	259	10.4	137	.843	.0476	42.0
2005	35	.024	19.0	13.2	17.4	15.3	5366	303	256	10.4	137	.844	.0478	41.0
2006	45	.039	19.0	13.2	17.3	15.3	5257	295	248	10.5	135	.839	.0472	40.1
2007	11	.013	18.8	13.0	17.3	15.1	5682	325	295	9.6	144	.908	.0522	42.9
2008	24	.027	18.4	12.9	16.6	14.8	5791	325	301	9.6	145	.926	.0521	42.8

Percent of Eight-Cylinder Vans:

MODEL YEAR	DRIVETRAIN		TRANSMISSION			FUEL METERING				NUMBER OF VALVES				
	FRONT	4WD	MANUAL	LOCK	CVT	GDI	PORT	TBI	DSL	TWO	THREE	FOUR	FIVE	VVT HYBRID
1975			25.5											
1976			19.9											
1977			13.6											
1978			12.3											
1979			6.1	6.3										
1980			3.3	50.6										
1981	.7		2.8	63.3										
1982			1.4	54.9										
1983			1.6	71.3					6.5					
1984			2.2	64.4					2.0					
1985	.1		.7	67.4			.1		.8					
1986	.1		.4	85.7			25.5	.1	.6					
1987			.2	62.6			24.4	42.5	.3					
1988			.1	72.5			32.8	65.7	.5					
1989			.1	84.1			31.5	68.1	.3					
1990				93.5			28.8	70.8	.4					
1991				98.0			31.7	67.8	.5					
1992				94.5			53.9	45.7	.4					
1993		.3		97.8			50.5	49.5						
1994				94.1			65.7	34.3		100.0				
1995				96.1			45.7	54.3		100.0				
1996				94.2			100.0			100.0				
1997				95.8			100.0			100.0				
1998				100.0			100.0			100.0				
1999				100.0			100.0			100.0				
2000				100.0			100.0			100.0				
2001				100.0			100.0			100.0				
2002				100.0			100.0			100.0				
2003				100.0			100.0			100.0				
2004				100.0			100.0			100.0				
2005				100.0			100.0			100.0				
2006				8.8			100.0			100.0				
2007				36.1			100.0			100.0				
2008				24.7			100.0			100.0				

Table J-12

Characteristics of 1975 to 2008 Other Cylinder SUVs

MODEL YEAR	SALES (000)	FRAC	<---- FUEL ECONOMY ---->				WGHT LB	ENGINE		0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG
			LAB 55/45	ADJ CITY	ADJ HWY	ADJ COMP		CID	HP					
2002	0	.000	34.1	35.1	25.0	28.7	3500	122	148	11.4	121	1.213	.0423	50.3
2003	0	.000	40.9	34.8	26.3	29.5	3500	122	148	11.4	121	1.213	.0423	51.6
2004	1	.000	22.8	15.4	21.8	18.4	6000	300	310	9.7	145	1.033	.0517	55.3
2006	1	.000	21.7	14.8	20.0	17.4	6000	300	310	9.6	145	1.033	.0517	52.2
2007	0	.000	21.7	14.8	20.0	17.4	6000	300	310	7.2	145	1.033	.0517	52.2
2008	1	.000	21.7	14.8	20.0	17.4	6000	300	310	7.1	145	1.033	.0517	52.2

Percent of Other Cylinder SUVs:

MODEL YEAR	DRIVETRAIN		TRANSMISSION			FUEL METERING				NUMBER OF VALVES				VVT HYBRID
	FRONT	4WD	MANUAL	LOCK	CVT	GDI	PORT	TBI	DSL	TWO	THREE	FOUR	FIVE	
2002	100.0				100.0	100.0					100.0			
2003	100.0				100.0	100.0					100.0			
2004		100.0		100.0					100.0		100.0			
2006		100.0		100.0					100.0		100.0			
2007		100.0		100.0					100.0		100.0			
2008		100.0		100.0					100.0		100.0			

Table J-13

Characteristics of 1975 to 2008 Four-Cylinder SUVs

MODEL YEAR	SALES (000)	FRAC	<---- FUEL ECONOMY ---->	WGHT	ENGINE	0-60	TOP	HP/	HP/	TON
			LAB ADJ ADJ ADJ	LB	CID HP	TIME	SPD	CID	WT	-MPG
			55/45 CITY HWY COMP							
1975	6	.034	12.0 9.0 12.2 10.2	4000	257 110	15.7	104	.428	.0275	20.5
1979	14	.034	19.0 15.8 16.4 16.1	3032	136 76	17.1	99	.600	.0259	24.2
1980	19	.102	22.8 18.9 19.8 19.3	2893	137 81	15.8	101	.624	.0278	27.9
1981	13	.098	24.4 20.2 21.3 20.7	2941	145 81	15.7	101	.573	.0276	30.5
1982	18	.110	24.0 20.6 19.8 20.3	2557	136 78	15.0	102	.589	.0303	25.9
1983	23	.080	23.7 20.2 19.9 20.0	2647	130 80	15.1	103	.634	.0303	26.6
1984	71	.113	23.6 19.1 21.3 20.0	3118	139 89	15.6	102	.644	.0285	31.3
1985	93	.127	24.3 19.5 22.2 20.6	3325	139 94	15.7	103	.680	.0282	34.4
1986	191	.248	25.2 20.0 23.1 21.3	3355	131 97	15.2	104	.745	.0291	35.8
1987	207	.237	25.2 20.0 22.9 21.3	3130	127 95	14.7	104	.755	.0303	33.2
1988	191	.197	25.0 19.9 22.5 21.0	3123	122 94	14.8	104	.773	.0298	32.6
1989	123	.133	24.0 18.9 21.5 20.0	3226	131 103	14.0	107	.790	.0322	32.3
1990	115	.162	25.0 19.7 22.1 20.8	3100	124 99	14.1	107	.808	.0321	32.3
1991	129	.118	24.0 19.1 20.6 19.8	3228	128 97	14.9	105	.775	.0302	32.1
1992	113	.113	24.4 19.3 21.0 20.1	3035	125 101	13.8	108	.814	.0333	30.8
1993	123	.094	24.3 19.1 20.7 19.9	3058	126 103	13.7	108	.822	.0337	30.7
1994	175	.108	24.9 19.3 21.5 20.4	3032	121 103	13.7	108	.848	.0339	31.0
1995	195	.108	24.9 19.1 21.4 20.2	3005	126 108	13.0	111	.869	.0362	30.6
1996	150	.080	27.5 20.6 24.3 22.3	3028	115 111	12.7	112	.974	.0368	33.8
1997	390	.159	25.8 19.1 22.7 20.9	3289	133 126	12.3	115	.957	.0385	34.4
1998	343	.133	26.3 19.3 23.2 21.2	3391	128 129	12.4	115	1.011	.0382	36.1
1999	353	.125	26.6 19.5 23.3 21.3	3443	129 138	11.9	118	1.075	.0402	36.9
2000	354	.113	26.2 19.1 22.8 20.9	3467	127 137	12.0	118	1.084	.0397	36.5
2001	505	.146	26.4 19.1 22.9 21.0	3461	132 144	11.6	120	1.102	.0418	36.6
2002	469	.112	27.4 19.4 24.1 21.8	3477	137 150	11.2	122	1.102	.0433	38.1
2003	576	.140	27.4 19.2 24.3 21.8	3539	140 152	11.3	122	1.085	.0431	38.6
2004	497	.105	27.6 19.2 24.4 21.8	3562	145 158	11.0	124	1.091	.0448	38.9
2005	525	.129	28.3 19.6 24.6 22.2	3551	143 157	10.9	124	1.101	.0446	39.5
2006	537	.143	28.7 19.9 25.0 22.5	3629	142 157	11.0	123	1.101	.0434	41.0
2007	734	.172	28.6 19.6 25.2 22.5	3743	142 170	10.8	126	1.197	.0453	42.2
2008	941	.194	29.2 20.2 25.3 22.8	3726	143 170	10.7	127	1.192	.0458	42.7

Percent of Four-Cylinder SUVs:

MODEL YEAR	DRIVETRAIN		TRANSMISSION			FUEL METERING				NUMBER OF VALVES				
	FRONT	4WD	MANUAL	LOCK	CVT	GDI	PORT	TBI	DSL	TWO	THREE	FOUR	FIVE	VVT HYBRID
1975			100.0											
1979		32.5	32.5											
1980		99.9	100.0											
1981		100.0	98.0											
1982		38.4	38.4											
1983		41.0	44.3	1.3										
1984		94.3	69.3	25.3										
1985		91.2	69.4	29.6		20.7	12.1	1.3						
1986		95.6	86.3	13.2		18.9	21.6	2.7						
1987		96.8	85.0	7.7		18.1	19.7	.1						
1988		97.8	83.3	12.8		40.1	6.8							
1989		95.6	72.5	27.5		42.1	49.8							
1990		90.9	83.1	15.9		36.0	61.1							
1991		60.2	63.3	36.4		36.0	62.6							
1992		50.9	67.2	32.8		42.8	54.5							
1993		54.2	63.7	36.3		50.0	47.3							
1994	1.3	56.0	60.5	25.1		61.2	38.8			89.9		10.1		
1995	.2	80.3	72.4	27.6		79.5	20.5			97.3		2.7		
1996	12.0	59.7	45.4	54.6		100.0				8.8		91.2		
1997	7.8	65.6	43.1	51.3		100.0				18.2		81.8		
1998	13.7	69.6	33.2	66.8		100.0				10.4		89.6		
1999	14.9	69.8	27.2	72.8		100.0				16.9		83.1		
2000	13.5	66.2	21.7	78.3		100.0				21.2		78.8		
2001	20.5	58.6	17.2	82.8		100.0				25.3		74.7		19.8
2002	31.3	60.5	17.2	82.3	.5	100.0				13.5		86.5		54.4
2003	38.0	60.1	13.1	79.8	7.0	100.0				8.3		91.7		55.5
2004	38.3	59.6	13.7	82.8	3.5	100.0						100.0		67.9
2005	44.2	55.6	10.7	86.9	2.4	98.4			1.6			100.0		58.1 2.0
2006	46.5	53.5	8.0	88.2	3.8	98.7			1.3			100.0		62.3 3.8
2007	48.9	51.1	3.8	85.3	10.9	100.0						100.0		81.7 3.0
2008	49.5	50.5	4.4	63.7	31.9	5.7 94.3						100.0		81.7 3.5

Table J-14

Characteristics of 1975 to 2008 Five-Cylinder SUVs

MODEL YEAR	SALES (000)	FRAC	<---- FUEL ECONOMY ---->				WGHT LB	ENGINE			0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG
			LAB 55/45	ADJ CITY	ADJ HWY	ADJ COMP		CID	HP	HP					
2003	4	.001	23.3	15.9	22.1	18.9	4885	154	207	11.4	127	1.344	.0425	46.1	
2004	55	.012	24.0	16.3	22.6	19.3	4365	183	232	9.6	140	1.279	.0540	42.0	
2005	40	.010	23.2	15.8	21.4	18.6	4486	175	225	10.0	137	1.298	.0511	41.6	
2006	98	.026	20.7	14.6	18.3	16.5	4976	196	217	11.1	129	1.123	.0436	41.1	
2007	46	.011	19.4	13.5	17.6	15.6	5000	223	245	10.1	137	1.099	.0490	38.9	
2008	36	.007	19.4	13.5	17.5	15.5	5000	223	245	10.1	137	1.099	.0490	38.9	

Percent of Five-Cylinder SUVs:

MODEL YEAR	DRIVETRAIN		TRANSMISSION			FUEL METERING				NUMBER OF VALVES					VVT HYBRID
	FRONT	4WD	MANUAL	LOCK	CVT	GDI	PORT	TBI	DSL	TWO	THREE	FOUR	FIVE		
2003	9.3	90.7		100.0		100.0						100.0		100.0	
2004	17.3	82.7		100.0		100.0						100.0		49.6	
2005	21.0	79.0		100.0		100.0						100.0		100.0	
2006	10.2	89.8	3.0	97.0		100.0						100.0		100.0	
2007		100.0	3.6	96.4		100.0				100.0				100.0	
2008		100.0	7.6	92.4		100.0				100.0				100.0	

Table J-15

Characteristics of 1975 to 2008 Six-Cylinder SUVs

MODEL YEAR	SALES (000)	<--- FUEL ECONOMY --->	WGHT LB	ENGINE CID	0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG					
	FRAC	LAB 55/45	ADJ CITY	ADJ HWY	ADJ COMP									
1975	12	.062	17.8	14.7	15.5	15.1	3152	237	95	14.7	105	.399	.0307	23.6
1976	45	.184	15.7	12.7	14.3	13.4	3255	253	101	14.3	106	.400	.0318	22.1
1977	49	.174	16.7	13.4	15.2	14.2	3323	253	105	14.1	107	.413	.0320	23.8
1978	60	.157	16.4	13.1	15.1	13.9	3217	255	104	13.8	107	.407	.0327	22.5
1979	63	.158	16.9	13.9	14.8	14.3	3211	257	120	12.4	114	.466	.0379	23.0
1980	54	.293	17.8	14.4	16.0	15.1	3590	258	100	15.5	104	.393	.0285	27.2
1981	44	.327	18.5	14.8	17.2	15.8	3564	266	113	14.0	109	.428	.0327	28.0
1982	41	.256	18.9	14.9	17.9	16.1	3601	264	112	14.3	108	.426	.0318	29.1
1983	150	.518	21.3	16.5	20.8	18.2	3728	206	112	14.8	107	.563	.0305	34.2
1984	368	.589	21.3	16.6	20.5	18.1	3677	188	108	15.1	106	.590	.0298	33.6
1985	444	.604	21.6	16.5	21.5	18.4	3736	178	109	15.2	105	.617	.0293	34.6
1986	388	.501	20.8	16.1	19.9	17.6	3670	182	126	13.4	112	.701	.0345	32.4
1987	491	.562	21.3	16.2	20.8	18.0	3694	198	138	12.7	116	.709	.0377	33.4
1988	582	.602	21.1	16.0	20.5	17.8	3681	211	147	12.0	119	.706	.0402	32.9
1989	595	.643	21.1	16.0	20.1	17.7	3770	231	155	11.7	121	.680	.0413	33.6
1990	423	.597	20.5	15.5	19.6	17.2	3813	219	154	11.9	120	.716	.0408	32.9
1991	875	.799	20.4	15.2	19.6	17.1	4067	233	163	11.9	121	.704	.0404	34.9
1992	793	.791	19.9	14.8	19.1	16.6	4071	230	170	11.6	123	.743	.0424	34.0
1993	950	.725	20.3	15.0	19.5	16.9	4083	234	181	11.0	127	.777	.0448	34.6
1994	1152	.710	19.9	14.7	19.0	16.6	4185	230	180	11.3	125	.785	.0434	34.8
1995	1242	.684	19.8	14.5	18.8	16.4	4205	230	177	11.5	124	.777	.0426	34.7
1996	1285	.680	20.4	14.7	19.5	16.9	4189	241	180	11.3	125	.751	.0434	35.4
1997	1331	.543	20.3	14.7	19.1	16.7	4219	237	180	11.3	125	.770	.0431	35.3
1998	1499	.581	20.6	14.8	19.4	16.9	4190	237	182	11.2	126	.778	.0438	35.5
1999	1600	.565	20.8	14.9	19.2	16.9	4206	231	190	10.8	128	.837	.0454	35.6
2000	1751	.557	20.8	14.8	19.2	16.9	4183	229	187	10.9	128	.829	.0450	35.4
2001	2072	.601	21.3	15.1	19.7	17.3	4178	219	200	10.4	132	.930	.0481	36.2
2002	2611	.623	20.9	14.7	19.4	16.9	4300	222	213	10.1	135	.972	.0497	36.5
2003	2228	.541	21.5	14.9	19.9	17.3	4320	220	221	9.8	137	1.012	.0513	37.5
2004	2655	.563	21.8	15.0	20.4	17.6	4344	223	224	9.8	137	1.010	.0516	38.3
2005	2458	.602	22.1	15.1	20.4	17.7	4364	217	226	9.7	138	1.047	.0519	38.7
2006	2329	.620	22.5	15.3	20.7	18.0	4409	218	226	9.7	137	1.041	.0513	40.0
2007	2438	.570	23.0	15.7	21.1	18.4	4395	218	235	9.4	140	1.086	.0537	40.6
2008	2940	.604	23.4	15.9	21.7	18.7	4463	216	238	9.5	141	1.110	.0536	41.9

Percent of Six-Cylinder SUVs:

MODEL YEAR	DRIVETRAIN		TRANSMISSION			FUEL METERING				NUMBER OF VALVES				
	FRONT	4WD	MANUAL	LOCK	CVT	GDI	PORT	TBI	DSL	TWO	THREE	FOUR	FIVE	VVT HYBRID
1975		79.8	69.6											
1976		73.8	75.9											
1977		63.0	83.8											
1978		70.2	84.1											
1979		92.9	86.0	.3					1.2					
1980		98.0	83.0	3.9					8.0					
1981		98.2	78.4	21.6										
1982		95.9	77.6	22.4										
1983		86.7	51.3	46.2										
1984		86.1	33.3	43.1										
1985		82.1	30.1	68.6										
1986		86.9	30.0	68.2		28.4	40.6							
1987		82.1	28.6	69.2		45.2	46.9							
1988		82.0	27.3	71.0		56.0	38.7							
1989		82.2	24.6	71.9		51.6	42.4							
1990		86.4	26.3	72.0		72.9	20.8							
1991		79.6	17.9	81.3		66.1	33.9							
1992		75.2	18.6	80.6		82.5	17.5							
1993		63.3	13.9	85.3		99.4	.6							
1994	.6	77.9	13.7	86.3		99.6	.4			83.2	6.0	10.7		
1995		77.9	10.6	89.4		100.0				77.6		22.4		
1996		69.7	5.4	94.6		100.0				86.5		13.5		
1997		71.2	8.8	91.2		100.0				79.2		20.8		
1998		69.3	6.4	93.6		100.0				80.5	2.6	16.9		
1999	1.4	68.6	5.2	94.8		100.0				70.6	2.2	27.2		5.7
2000	1.8	65.9	4.7	95.3		100.0				74.3	2.0	23.6		5.1
2001	18.0	57.4	2.9	97.1		100.0				57.6	1.5	41.0		16.7
2002	9.5	64.1	3.0	96.9		100.0				43.8	1.2	55.1		28.4
2003	11.4	65.3	2.0	95.5	2.5	100.0				34.8	1.2	64.0		42.4
2004	14.3	65.5	2.3	95.3	2.4	100.0				37.3	.6	62.1		40.8
2005	18.6	65.3	1.9	95.1	2.9	100.0				30.3	.6	69.1		48.8
2006	20.5	62.2	2.1	91.1	6.8	100.0				26.6	1.7	71.7		52.9
2007	25.5	60.8	2.4	92.1	5.4		99.8		.2	26.4		73.6		52.7
2008	27.3	59.6	1.9	96.5	1.7	1.0	98.4		.6	23.9		76.1		53.9

Table J-16

Characteristics of 1975 to 2008 Eight-Cylinder SUVs

MODEL YEAR	SALES (000)	FRAC	<---- FUEL ECONOMY ---->				WGHT LB	ENGINE CID	HP	0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG
			LAB 55/45	ADJ CITY	ADJ HWY	ADJ COMP								
1975	169	.905	12.8	10.5	11.4	10.9	4281	337	151	13.2	116	.445	.0363	23.1
1976	199	.816	13.4	10.8	12.2	11.4	4551	354	149	14.0	113	.421	.0334	25.8
1977	234	.826	14.8	11.9	13.4	12.5	4423	348	152	13.5	115	.435	.0348	27.7
1978	321	.843	14.1	11.3	12.9	12.0	4465	354	157	13.1	116	.442	.0356	26.7
1979	323	.808	11.8	9.8	10.3	10.0	4825	353	151	14.7	111	.426	.0314	24.2
1980	112	.605	13.9	11.1	12.8	11.8	4776	339	154	14.1	112	.453	.0323	28.4
1981	78	.575	15.2	12.1	14.1	12.9	4790	329	150	14.5	111	.459	.0314	31.2
1982	103	.634	16.4	13.0	15.4	14.0	4961	333	145	15.3	109	.441	.0296	36.3
1983	116	.401	16.2	12.8	15.4	13.8	4962	339	148	15.1	110	.442	.0301	35.6
1984	186	.298	15.4	12.1	14.5	13.1	4971	336	156	14.5	112	.467	.0315	33.5
1985	198	.269	15.6	12.2	14.9	13.3	4977	335	162	14.1	114	.486	.0327	33.7
1986	194	.251	16.2	12.5	15.6	13.8	4981	330	159	14.3	113	.484	.0321	34.8
1987	175	.200	15.9	12.3	15.2	13.5	5090	336	181	13.3	118	.537	.0355	34.8
1988	194	.201	16.1	12.3	15.3	13.6	5115	338	183	13.2	118	.541	.0357	35.1
1989	208	.224	16.0	12.2	15.4	13.5	5196	336	186	13.2	119	.551	.0357	35.5
1990	170	.241	16.2	12.1	15.9	13.6	5257	338	192	12.9	120	.569	.0367	36.1
1991	91	.083	16.2	12.1	15.8	13.6	5293	339	199	12.6	122	.589	.0377	36.3
1992	96	.096	15.9	11.7	15.5	13.3	5428	340	201	12.7	121	.591	.0371	36.2
1993	237	.181	16.9	12.4	16.5	14.1	5019	334	209	11.5	128	.629	.0429	35.3
1994	295	.182	17.0	12.5	16.2	14.1	5003	334	209	11.5	128	.629	.0431	35.2
1995	378	.208	17.0	12.4	16.2	14.1	5066	334	206	11.7	126	.621	.0417	35.5
1996	454	.241	17.5	12.6	16.8	14.5	4965	328	225	10.8	132	.687	.0458	35.9
1997	729	.298	17.6	12.7	16.9	14.6	5084	323	228	10.9	131	.707	.0452	37.1
1998	738	.286	17.3	12.3	16.6	14.3	5086	320	225	11.0	131	.707	.0447	36.3
1999	877	.310	17.4	12.3	16.8	14.4	5138	319	236	10.7	133	.744	.0463	36.9
2000	1037	.330	17.6	12.5	16.7	14.5	5262	311	243	10.6	134	.783	.0464	38.0
2001	873	.253	17.7	12.6	16.4	14.4	5380	310	255	10.4	136	.824	.0476	38.8
2002	1110	.265	18.0	12.6	17.0	14.7	5436	311	271	10.0	140	.871	.0500	40.0
2003	1309	.318	18.0	12.6	16.8	14.7	5576	311	266	10.4	138	.859	.0480	40.9
2004	1505	.319	18.1	12.6	16.8	14.7	5507	314	278	10.0	141	.885	.0507	40.3
2005	1062	.260	18.5	12.7	17.2	14.9	5573	315	288	9.7	143	.917	.0518	41.6
2006	793	.211	18.6	12.8	17.4	15.0	5521	309	293	9.6	145	.952	.0533	41.5
2007	1056	.247	19.5	13.2	18.5	15.8	5722	320	312	9.4	148	.975	.0546	45.4
2008	946	.195	19.4	13.2	18.5	15.7	5709	320	326	9.0	152	1.019	.0572	45.1

Percent of Eight-Cylinder SUVs:

MODEL YEAR	DRIVETRAIN		TRANSMISSION			FUEL METERING				NUMBER OF VALVES				
	FRONT	4WD	MANUAL	LOCK	CVT	GDI	PORT	TBI	DSL	TWO	THREE	FOUR	FIVE	VVT HYBRID
1975		87.5	37.3											
1976		88.0	24.4											
1977		86.7	25.8											
1978		91.9	25.1											
1979		66.3	23.1	.6										
1980		82.4	14.9	41.4										
1981		84.3	9.9	59.3										
1982		79.9	8.9	57.5					24.1					
1983		80.8	4.7	67.6					16.7					
1984		79.4	6.4	49.3					7.8					
1985		71.7	3.3	55.5			4.5		4.8					
1986		75.2	3.6	72.9			20.0		3.4					
1987		73.9	2.9	69.9			16.7	53.7	1.9					
1988		74.9	2.6	70.9			29.0	60.1	1.5					
1989		76.0	3.0	73.6			32.9	60.0	1.1					
1990		73.0	2.0	86.9			32.8	62.1	1.2					
1991		70.6	1.4	89.7			30.1	64.0	1.8					
1992		73.8	1.3	98.2			30.7	69.3						
1993		47.3	.9	99.1			49.4	50.6						
1994		81.1	1.4	98.6			48.6	51.4		100.0				
1995		82.9	1.2	98.8			41.7	58.3		100.0				
1996		78.6	.8	99.2			99.9		.1	100.0				
1997		75.5	.1	99.9			100.0		.0	100.0				
1998		75.1		100.0			100.0		.0	100.0				
1999		58.7		100.0			100.0			95.2	1.9	2.9		
2000		69.6		100.0			100.0			94.8		5.2		.5
2001		67.2		100.0			100.0			84.6	1.1	14.2		2.2
2002		64.4		100.0			100.0			87.8	1.2	11.0		.9
2003		61.0		100.0			100.0			81.0	.7	18.3		2.8
2004		65.6		100.0			100.0			71.3	.3	27.2	1.2	14.9
2005		67.3		100.0			100.0			64.9	11.5	22.9	.7	29.6
2006		70.6		100.0			100.0			48.7	20.1	30.7	.5	49.9
2007		62.6		100.0			100.0			72.7	9.5	17.8		29.5
2008		65.6	.2	98.9	1.0	1.5	98.5			59.8	6.6	33.7		39.3 1.0

Table J-17

Characteristics of 1975 to 2008 Other Cylinder Pickups

MODEL YEAR	SALES (000)	FRAC	<---- FUEL ECONOMY ---->			WGHT LB	ENGINE		0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG	
			LAB 55/45	ADJ CITY	ADJ HWY		ADJ COMP	CID						HP
2004	3	.001	13.0	8.6	13.6	10.8	5135	505	500	5.9	206	.990	.0975	27.8
2005	5	.002	12.3	8.4	12.1	10.2	5825	505	500	6.5	195	.990	.0860	29.7
2006	2	.001	12.3	8.4	12.1	10.2	5833	505	500	6.5	195	.990	.0859	29.6

Percent of Other Cylinder Pickups:

MODEL YEAR	DRIVETRAIN		TRANSMISSION			FUEL METERING				NUMBER OF VALVES					
	FRONT	4WD	MANUAL	LOCK	CVT	GDI	PORT	TBI	DSL	TWO	THREE	FOUR	FIVE	VVT	HYBRID
2004			100.0				100.0					100.0			
2005			35.0	65.0			100.0				100.0				
2006			33.4	66.6			100.0				100.0				

Table J-18

Characteristics of 1975 to 2008 Two-Cylinder Pickups

MODEL YEAR	SALES (000)	FRAC	<---- FUEL LAB 55/45	ECONOMY ADJ CITY	----> ADJ HWY	ADJ COMP	WGHT LB	ENGINE CID	HP	0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG
1975	3	.002	15.5	11.7	15.9	13.2	3000	80	135	10.7	122	1.688	.0450	19.9
1976	4	.002	16.4	12.4	16.8	14.1	3000	80	135	10.7	122	1.688	.0450	21.1
1977	2	.001	19.3	14.7	19.4	16.5	3000	80	135	10.7	122	1.688	.0450	24.8

Percent of Two-Cylinder Pickups:

MODEL YEAR	DRIVETRAIN		TRANSMISSION			FUEL METERING				NUMBER OF VALVES					VVT HYBRID
	FRONT	4WD	MANUAL	LOCK	CVT	GDI	PORT	TBI	DSL	TWO	THREE	FOUR	FIVE		
1975					68.2										
1976					81.1										
1977					85.1										

Table J-19

Characteristics of 1975 to 2008 Four-Cylinder Pickups

MODEL YEAR	SALES (000)	<---- FUEL ECONOMY <---->	WGHT LB	ENGINE CID HP	0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG					
	FRAC	LAB 55/45	ADJ CITY	ADJ HWY	ADJ COMP									
1975	214	.159	22.2	17.2	21.6	19.0	2817	116	88	14.7	105	.750	.0314	26.8
1976	224	.120	23.7	18.4	23.1	20.2	2826	117	89	14.6	105	.757	.0318	28.7
1977	304	.150	26.4	20.6	25.3	22.5	2819	122	91	14.2	106	.748	.0324	32.0
1978	339	.150	26.3	21.0	24.3	22.4	2844	120	88	14.7	104	.731	.0310	32.1
1979	459	.208	23.4	18.4	22.1	19.9	2832	123	84	14.9	103	.692	.0300	28.7
1980	550	.383	24.6	19.6	22.8	20.9	2818	124	87	14.5	104	.705	.0311	29.9
1981	497	.346	27.7	22.1	25.7	23.6	2841	130	85	15.1	103	.652	.0298	34.1
1982	485	.337	27.8	22.1	25.7	23.6	2885	133	87	14.9	104	.657	.0304	34.6
1983	707	.434	27.6	22.0	25.6	23.5	2921	135	88	14.8	104	.651	.0303	34.7
1984	795	.389	27.2	21.7	25.2	23.1	2973	134	89	14.9	104	.661	.0300	34.7
1985	819	.394	27.4	21.9	25.3	23.3	3034	141	97	14.0	107	.693	.0322	35.5
1986	1256	.496	27.0	21.3	25.1	22.9	3054	139	97	14.2	106	.696	.0318	35.1
1987	1064	.496	27.1	21.1	25.3	22.9	3050	140	96	14.2	106	.686	.0316	35.0
1988	913	.371	27.1	21.1	25.1	22.8	3070	142	97	14.2	106	.685	.0317	35.2
1989	773	.347	26.8	20.8	24.7	22.5	3084	143	102	13.7	108	.710	.0331	34.8
1990	554	.302	27.1	20.9	24.8	22.6	3096	144	110	13.0	111	.765	.0356	35.1
1991	632	.329	27.3	20.9	25.0	22.7	3119	145	108	13.2	110	.749	.0349	35.5
1992	471	.256	27.1	20.5	24.8	22.4	3194	143	110	13.3	110	.767	.0347	35.9
1993	478	.239	27.3	20.5	24.9	22.5	3210	143	112	13.2	111	.782	.0351	36.2
1994	706	.265	27.3	20.4	24.9	22.4	3333	141	113	13.4	110	.799	.0342	37.4
1995	653	.288	26.8	19.8	24.4	21.9	3425	147	124	12.8	113	.848	.0365	37.8
1996	556	.284	27.0	19.7	24.9	22.1	3420	142	124	12.8	113	.871	.0366	38.0
1997	465	.193	27.5	20.0	24.9	22.3	3457	140	120	13.2	111	.853	.0349	38.8
1998	615	.255	27.0	19.5	24.6	21.9	3462	145	127	12.7	114	.877	.0370	38.1
1999	392	.154	26.5	19.0	24.1	21.4	3451	147	127	12.7	114	.867	.0371	37.2
2000	437	.167	26.0	18.5	23.6	21.0	3466	145	127	12.7	114	.879	.0368	36.5
2001	277	.110	25.8	18.4	23.0	20.6	3501	145	132	12.5	115	.906	.0378	36.3
2002	166	.070	26.3	18.8	23.0	20.9	3525	149	143	11.7	119	.958	.0407	37.1
2003	289	.117	26.3	18.3	23.7	21.0	3527	142	133	12.5	115	.933	.0377	37.1
2004	155	.062	26.2	18.3	23.1	20.7	3542	152	147	11.5	120	.972	.0418	36.8
2005	126	.055	26.0	17.7	23.6	20.7	3740	159	162	11.1	124	1.017	.0434	38.7
2006	165	.075	25.8	17.6	23.6	20.6	3749	160	162	11.2	123	1.012	.0434	38.6
2007	136	.065	25.6	17.5	23.2	20.3	3716	162	164	11.0	125	1.015	.0444	38.1
2008	124	.059	27.1	18.6	24.1	21.4	3722	161	164	11.0	124	1.019	.0442	39.8

Percent of Four-Cylinder Pickups:

MODEL YEAR	DRIVETRAIN		TRANSMISSION			FUEL METERING				NUMBER OF VALVES				
	FRONT	4WD	MANUAL	LOCK	CVT	GDI	PORT	TBI	DSL	TWO	THREE	FOUR	FIVE	VVT HYBRID
1975			83.5											
1976			81.4											
1977			82.3											
1978		6.9	88.1											
1979		20.5	88.1											
1980	4.8	20.2	89.9					2.7	2.0					
1981	6.7	23.0	93.1					1.8	16.3					
1982	6.6	23.4	90.8	2.3				.7	15.4					
1983	4.3	18.9	86.3	1.4				.2	5.7					
1984	1.5	20.6	88.9	2.5			2.5		4.2					
1985		22.4	84.6	8.8			18.3	10.7	1.7					
1986		19.8	85.9	7.9			14.3	22.6	.7					
1987		17.3	84.5	7.9			11.7	26.8	.3					
1988		15.2	84.9	9.3			27.3	29.7						
1989		15.3	84.9	10.6			34.5	36.6						
1990		13.1	84.9	12.9			69.5	10.5						
1991		12.4	85.3	12.0			67.3	23.0						
1992		13.8	86.8	10.1			77.6	9.8						
1993		14.8	86.8	9.9			87.0	4.2						
1994		12.2	85.2	11.2			96.7	.4		99.8		.2		
1995		15.3	79.9	17.0			97.3	2.7		82.3		17.7		
1996		9.8	76.6	18.6			100.0			64.8	15.9	19.3		
1997		5.9	78.0	22.0			100.0			71.4	28.1	.5		
1998		11.1	66.9	27.1			100.0			64.4		35.6		
1999		10.5	57.4	36.5			100.0			65.4		34.6		
2000		7.9	48.0	47.2			100.0			65.0		35.0		
2001		8.7	48.5	43.8			100.0			46.0		54.0		
2002		12.5	47.9	39.6			100.0			.1		99.9		
2003		10.6	38.8	53.6			100.0			46.3		53.7		
2004		12.4	42.3	42.4			100.0					100.0		12.5
2005		17.6	43.0	57.0			100.0					100.0		68.4
2006		15.0	37.9	62.1			100.0					100.0		79.7
2007		8.5	34.5	65.5			100.0					100.0		100.0
2008		8.4	45.4	54.6			100.0					100.0		100.0

Table J-20

Characteristics of 1975 to 2008 Five-Cylinder Pickups

MODEL YEAR	SALES (000)	FRAC	<---- FUEL ECONOMY ---->				WGHT LB	ENGINE			0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG
			LAB 55/45	ADJ CITY	ADJ HWY	ADJ COMP		CID	HP						
2004	95	.038	23.9	16.4	22.0	19.1	4076	211	215	9.5	138	1.019	.0530	39.0	
2005	131	.057	23.2	15.8	21.5	18.6	4141	211	215	9.6	137	1.019	.0521	38.5	
2006	78	.036	23.5	16.0	21.7	18.8	4162	211	215	9.7	137	1.019	.0519	39.1	
2007	49	.023	21.3	14.4	20.0	17.2	4160	223	207	10.0	134	.931	.0497	35.7	
2008	77	.036	22.6	15.3	21.3	18.2	4155	223	190	10.7	129	.852	.0459	37.8	

Percent of Five-Cylinder Pickups:

MODEL YEAR	DRIVETRAIN		TRANSMISSION			FUEL METERING					NUMBER OF VALVES				
	FRONT	4WD	MANUAL	LOCK	CVT	GDI	PORT	TBI	DSL	TWO	THREE	FOUR	FIVE	VVT	HYBRID
2004		43.9	2.9	97.1			100.0					100.0			100.0
2005		51.2	2.4	97.6			100.0					100.0			100.0
2006		51.9	2.1	97.9			100.0					100.0			100.0
2007		48.9		100.0			100.0				100.0				100.0
2008		41.6		100.0			100.0				100.0				100.0

Table J-21

Characteristics of 1975 to 2008 Six-Cylinder Pickups

MODEL YEAR	SALES (000)	FRAC	<--- FUEL ECONOMY --->	WGHT LB	ENGINE CID	0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG
			LAB 55/45 ADJ CITY ADJ HWY ADJ COMP							
1975	144	.107	17.1 13.7 15.8 14.6	4020	270 103	17.0	101	.384	.0256	29.5
1976	272	.146	18.9 15.1 17.4 16.0	4007	267 103	16.9	101	.389	.0257	32.3
1977	254	.125	19.0 15.3 17.3 16.2	4044	271 109	16.2	103	.405	.0272	32.9
1978	346	.153	18.5 14.9 16.8 15.7	4054	274 116	15.5	106	.428	.0287	32.1
1979	355	.161	17.5 14.3 15.6 14.8	4173	266 122	15.1	107	.464	.0294	31.3
1980	387	.269	19.1 15.2 17.7 16.3	4027	271 121	14.8	107	.451	.0300	32.9
1981	472	.328	20.1 16.0 18.7 17.1	3934	274 120	14.6	108	.444	.0306	33.9
1982	480	.333	21.7 17.1 20.5 18.5	3578	236 113	14.2	108	.502	.0321	33.2
1983	484	.297	21.6 16.9 20.7 18.4	3653	228 112	14.6	107	.516	.0310	33.7
1984	687	.336	21.0 16.4 20.1 17.9	3676	227 110	14.8	106	.510	.0304	33.0
1985	591	.284	21.7 16.9 20.8 18.5	3588	227 117	14.0	109	.535	.0327	33.1
1986	600	.237	21.1 16.5 19.9 17.9	3705	228 129	13.3	113	.604	.0354	33.1
1987	631	.294	21.4 16.5 20.4 18.1	3647	222 136	12.5	116	.638	.0378	33.0
1988	746	.304	21.4 16.4 20.5 18.1	3695	229 142	12.2	117	.644	.0388	33.4
1989	732	.328	20.9 16.0 19.8 17.6	3869	239 145	12.5	117	.627	.0378	34.1
1990	593	.323	21.0 15.9 20.1 17.7	3959	240 147	12.5	117	.637	.0376	35.0
1991	769	.400	21.9 16.3 21.0 18.3	3807	236 147	12.2	118	.641	.0390	34.8
1992	792	.430	21.2 15.7 20.4 17.7	3950	242 146	12.6	117	.622	.0375	35.0
1993	916	.458	21.3 15.7 20.4 17.7	3944	239 150	12.4	118	.645	.0384	35.0
1994	1057	.396	21.3 15.6 20.3 17.7	3983	245 161	11.8	121	.675	.0410	35.2
1995	679	.299	20.8 15.1 19.9 17.2	4122	256 161	12.1	120	.645	.0396	35.4
1996	628	.321	21.0 15.3 19.9 17.3	4104	249 168	11.7	122	.688	.0412	35.7
1997	674	.280	21.5 15.4 20.3 17.6	4100	247 185	10.8	128	.753	.0453	36.2
1998	729	.302	21.3 15.2 19.9 17.4	4064	238 180	11.0	126	.760	.0443	35.4
1999	794	.312	20.9 14.9 19.4 17.0	4045	230 174	11.3	124	.763	.0430	34.4
2000	921	.353	20.9 14.9 19.3 17.0	4080	228 175	11.3	125	.774	.0430	34.7
2001	854	.339	20.7 14.7 19.0 16.8	4127	232 184	11.0	127	.798	.0447	34.6
2002	842	.354	20.6 14.6 18.7 16.6	4192	232 186	11.0	127	.806	.0444	34.8
2003	852	.344	20.9 14.7 18.9 16.8	4251	233 187	11.1	127	.807	.0441	35.7
2004	595	.238	20.8 14.5 18.9 16.7	4256	227 192	10.8	128	.849	.0452	35.6
2005	529	.230	21.1 14.5 19.2 16.9	4398	239 215	10.3	134	.901	.0492	37.1
2006	595	.272	21.4 14.8 19.5 17.1	4450	237 221	10.1	135	.937	.0499	38.1
2007	515	.245	21.4 14.8 19.4 17.1	4526	238 219	10.3	134	.924	.0487	38.7
2008	427	.202	21.4 14.7 19.5 17.1	4537	236 216	10.5	133	.919	.0479	38.9

Percent of Six-Cylinder Pickups:

MODEL YEAR	DRIVETRAIN		TRANSMISSION			FUEL METERING				NUMBER OF VALVES				
	FRONT	4WD	MANUAL	LOCK	CVT	GDI	PORT	TBI	DSL	TWO	THREE	FOUR	FIVE	VVT HYBRID
1975		3.3		16.3										
1976		5.3		35.3										
1977		10.8		29.6										
1978		11.4		30.9					.3					
1979		11.7		61.4	2.4				.8					
1980		12.6		65.4	19.5				.2					
1981		10.2		61.1	21.9									
1982		8.9		56.6	30.2									
1983		23.5		53.0	32.1									
1984		25.8		49.8	30.5									
1985		26.8		52.4	33.5				1.1					
1986		30.7		53.0	30.9		23.3	26.8						
1987		33.1		46.1	45.7		50.4	31.2						
1988		34.3		49.8	42.0		53.9	46.1						
1989		33.6		51.5	43.8		52.7	47.3						
1990		30.0		46.3	50.3		62.2	37.8						
1991		25.8		51.7	48.3		43.6	56.4						
1992		23.2		48.6	51.4		56.4	43.6						
1993		24.2		45.3	54.7		58.5	41.5						
1994		27.0		39.0	61.0		71.1	28.9		94.6	5.4			
1995		28.1		42.7	57.3		69.6	30.4		98.6		1.4		
1996		27.2		33.5	66.5		100.0			89.9		10.1		
1997		21.5		27.8	72.2		100.0			95.8		4.2		
1998		28.7		28.0	72.0		100.0			92.9		7.1		
1999		33.0		23.9	76.1		100.0			92.4		7.6		
2000		31.4		21.7	78.3		100.0			93.0		7.0		
2001		28.2		16.4	83.6		100.0			88.4		11.6		
2002		32.5		15.1	84.9		100.0			80.2		19.8		
2003		30.5		15.0	85.0		100.0			86.1		13.9		
2004		34.0		15.6	84.4		100.0			82.1		17.9		
2005		30.2		12.4	87.6		100.0			65.9		34.1		34.1
2006		36.5		10.8	89.2		100.0			49.6		50.4		50.4
2007		34.9		8.3	91.7		100.0			55.3		44.7		38.0
2008		38.4		10.8	89.2		100.0			58.9		41.1		20.4

Table J-22

Characteristics of 1975 to 2008 Eight-Cylinder Pickups

MODEL YEAR	SALES (000)	FRAC	<---- FUEL ECONOMY ---->				WGHT LB	ENGINE CID	HP	0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG
			LAB 55/45	ADJ CITY	ADJ HWY	ADJ COMP								
1975	982	.732	12.6	10.0	11.8	10.8	4274	353	158	12.7	118	.446	.0373	23.3
1976	1367	.732	13.2	10.6	12.0	11.2	4360	359	155	13.1	116	.430	.0358	24.6
1977	1466	.723	14.4	11.7	12.9	12.2	4366	360	164	12.6	119	.457	.0378	26.9
1978	1582	.698	14.0	11.5	12.5	11.9	4386	353	162	12.7	118	.460	.0373	26.4
1979	1392	.631	13.6	11.3	12.1	11.6	4566	346	156	13.8	115	.449	.0344	27.0
1980	500	.348	15.9	12.8	14.6	13.6	4532	331	150	13.9	113	.453	.0333	31.3
1981	470	.326	17.4	13.8	16.1	14.8	4311	312	143	13.8	113	.461	.0334	32.2
1982	476	.331	17.8	14.2	16.5	15.1	4437	317	150	13.7	114	.475	.0341	34.4
1983	437	.269	17.2	13.6	16.1	14.7	4430	317	152	13.5	114	.483	.0346	33.3
1984	561	.275	16.9	13.3	15.9	14.4	4463	316	154	13.4	115	.489	.0347	32.6
1985	668	.321	16.7	13.2	15.6	14.2	4437	315	159	13.0	117	.506	.0361	31.9
1986	675	.267	17.4	13.6	16.3	14.7	4424	311	157	13.1	116	.503	.0356	32.8
1987	451	.210	17.0	13.2	15.9	14.3	4482	320	169	12.6	119	.527	.0379	32.3
1988	800	.325	17.5	13.4	16.7	14.8	4537	329	180	12.1	122	.544	.0397	33.6
1989	726	.326	17.5	13.3	16.8	14.7	4502	330	184	11.9	124	.556	.0411	33.3
1990	687	.375	17.3	13.0	16.8	14.5	4572	335	189	11.8	124	.561	.0414	33.4
1991	519	.271	17.3	12.9	16.8	14.5	4542	331	190	11.6	125	.573	.0420	33.0
1992	577	.313	17.4	12.9	17.0	14.6	4652	330	190	11.9	124	.573	.0410	34.0
1993	608	.304	17.7	13.0	17.2	14.8	4691	331	200	11.3	127	.606	.0429	34.8
1994	906	.339	17.6	12.9	16.9	14.7	4706	334	205	11.1	128	.615	.0437	34.5
1995	939	.414	17.3	12.6	16.6	14.4	4751	333	201	11.4	127	.606	.0425	34.2
1996	771	.394	17.7	12.8	17.0	14.6	4815	332	226	10.5	133	.680	.0470	35.3
1997	1269	.527	18.3	13.1	17.6	15.1	4933	318	228	10.6	133	.721	.0465	37.3
1998	1071	.443	18.0	12.8	17.3	14.8	4902	323	232	10.4	134	.723	.0477	36.4
1999	1359	.534	18.1	12.9	17.1	14.9	5043	324	245	10.2	137	.758	.0490	37.5
2000	1255	.480	18.8	13.4	17.5	15.3	4836	313	249	9.7	140	.798	.0517	37.1
2001	1388	.551	18.2	12.9	17.0	14.8	5022	316	252	9.9	139	.801	.0503	37.4
2002	1373	.577	18.3	12.9	16.9	14.8	5137	310	261	9.8	140	.843	.0511	38.2
2003	1333	.539	18.5	13.0	16.9	14.9	5133	311	265	9.7	141	.854	.0518	38.3
2004	1658	.661	18.5	13.0	16.9	14.9	5364	317	280	9.7	143	.881	.0524	40.1
2005	1509	.656	18.7	12.9	17.2	15.1	5370	316	286	9.5	145	.906	.0536	40.5
2006	1349	.617	19.0	13.1	17.3	15.2	5390	314	284	9.6	144	.904	.0529	41.1
2007	1405	.667	19.3	13.3	17.9	15.6	5489	318	298	9.4	147	.935	.0544	42.8
2008	1487	.703	19.4	13.3	18.0	15.7	5594	321	317	9.2	150	.982	.0566	43.9

Percent of Eight-Cylinder Pickups:

MODEL YEAR	DRIVETRAIN		TRANSMISSION			FUEL METERING				NUMBER OF VALVES				
	FRONT	4WD	MANUAL	LOCK	CVT	GDI	PORT	TBI	DSL	TWO	THREE	FOUR	FIVE	VVT HYBRID
1975		18.0		35.4										
1976		27.5		32.4										
1977		27.7		27.3										
1978		34.7		27.9										
1979		10.2		18.6				1.5						
1980		28.5		19.5				47.9						
1981		17.0		16.8				62.2						
1982		20.7		13.7				56.5						
1983		25.6		11.5				66.5						
1984		29.1		12.8				65.7						
1985		27.8		10.3				64.4						
1986		30.2		11.9				72.0						
1987	.1	34.1		14.4				54.8						
1988	.0	38.1		13.4				69.4						
1989		38.8		18.8				72.1						
1990		38.0		14.0				79.1						
1991		38.5		12.7				85.3						
1992		40.7		12.5				87.4						
1993	.0	43.0		8.1				91.9						
1994		45.4		6.1				93.9						
1995		48.9		9.4				90.6						
1996		45.0		5.3				94.7						
1997		52.2		4.6				95.4						
1998		52.6		4.1				95.9						
1999		62.5		2.4				97.6						
2000		54.1		2.0				98.0						
2001		51.2		2.0				98.0						
2002		52.0		1.5				98.5						
2003		51.5		1.2				98.8						
2004		54.1		.6				99.4						
2005		54.7		.4				99.6						
2006		53.4		.4				99.6						
2007		52.4		.4				99.6						
2008		55.4		.8				99.2						