

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

Appendix E Data Stratified by Vehicle Type and Size

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 E-1

Characteristics of 1975 to 2008 Small Car

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	4088	.400	18.3	14.4	17.5	15.6	3440		224	113	14.5	108	.554	.0323	27.2		
1976	5041	.409	19.9	15.7	18.8	17.0	3474		226	110	14.9	107	.537	.0313	29.6		
1977	5481	.388	20.7	16.3	19.5	17.6	3486	95.4	224	114	14.3	108	.567	.0324	31.0	1769	2969
1978	4630	.320	23.2	18.2	22.0	19.7	3029	90.9	177	100	14.2	107	.625	.0325	30.3	1901	2765
1979	4405	.317	23.3	18.3	22.1	19.8	2936	89.2	166	98	14.2	107	.642	.0327	29.5	1862	2639
1980	4825	.427	26.1	20.4	24.8	22.2	2717	90.0	137	86	14.5	104	.658	.0314	30.5	2077	2753
1981	4077	.386	28.5	22.4	26.9	24.2	2648	91.6	129	85	14.4	105	.681	.0319	32.5	2311	2988
1982	4039	.415	29.1	22.6	28.1	24.8	2684	92.2	131	87	14.4	105	.682	.0319	33.7	2374	3121
1983	3718	.361	29.4	22.8	28.6	25.1	2734	95.1	137	91	14.1	106	.693	.0329	34.8	2494	3324
1984	5666	.404	29.4	22.7	28.7	25.1	2776	95.2	140	95	13.8	108	.706	.0340	35.3	2479	3363
1985	5519	.382	29.8	23.1	29.0	25.4	2771	95.8	138	100	13.3	110	.746	.0357	35.6	2528	3423
1986	6203	.404	30.0	23.1	29.1	25.5	2791	96.7	137	101	13.3	110	.754	.0355	36.0	2553	3483
1987	6453	.434	30.1	22.9	29.1	25.4	2803	96.9	134	102	13.3	110	.777	.0356	35.9	2534	3484
1988	6706	.438	30.5	23.1	29.3	25.7	2818	98.5	133	105	13.1	111	.806	.0366	36.4	2597	3592
1989	5677	.393	30.2	22.8	29.0	25.4	2841	98.3	131	108	12.8	112	.844	.0375	36.3	2558	3569
1990	4999	.396	29.8	22.4	28.5	24.9	2897	97.6	131	116	12.2	115	.906	.0395	36.4	2486	3550
1991	5032	.400	30.0	22.3	28.8	25.0	2885	97.6	131	117	12.1	115	.919	.0401	36.4	2506	3556
1992	4440	.365	30.0	22.0	28.9	24.9	2921	97.9	134	123	11.8	117	.943	.0416	36.7	2503	3591
1993	4537	.343	30.5	22.2	29.3	25.3	2903	98.3	133	122	11.8	117	.933	.0415	36.9	2541	3628
1994	4720	.334	30.4	21.9	29.3	25.1	2965	98.7	137	126	11.7	118	.943	.0419	37.4	2537	3699
1995	5190	.343	30.7	21.9	29.7	25.3	2988	99.6	137	134	11.2	121	1.002	.0443	38.0	2575	3784
1996	4197	.319	30.8	21.8	29.7	25.3	2977	99.9	136	134	11.1	121	1.008	.0446	37.8	2573	3775
1997	4443	.307	30.9	21.7	29.6	25.2	2977	99.2	133	133	11.2	121	1.016	.0442	37.7	2543	3739
1998	3842	.266	30.9	21.5	29.7	25.2	3013	98.8	137	138	11.0	122	1.028	.0452	38.1	2540	3771
1999	3919	.258	30.3	21.0	28.9	24.6	3085	98.9	141	143	10.9	124	1.036	.0459	38.0	2477	3769
2000	4266	.257	30.3	20.9	28.7	24.5	3079	99.4	139	144	10.9	124	1.052	.0461	37.9	2482	3772
2001	4065	.260	30.7	21.1	28.9	24.7	3101	99.2	140	149	10.6	126	1.080	.0475	38.7	2520	3844
2002	3801	.236	30.7	20.9	28.7	24.6	3125	98.9	141	153	10.6	127	1.098	.0482	38.8	2504	3841
2003	3698	.234	30.6	20.7	28.4	24.4	3179	98.6	144	160	10.3	129	1.122	.0496	39.2	2491	3877
2004	3275	.208	30.5	20.4	28.4	24.3	3192	99.0	146	165	10.1	130	1.145	.0510	39.1	2480	3883
2005	3185	.200	31.1	20.7	28.6	24.6	3163	99.1	144	165	10.0	131	1.166	.0512	39.2	2518	3903
2006	3196	.212	31.1	20.6	28.8	24.6	3255	98.8	151	176	9.8	133	1.181	.0530	40.6	2521	4031
2007	3143	.206	31.7	21.0	29.2	25.1	3227	99.0	147	173	9.8	133	1.191	.0526	40.8	2565	4056
2008	3175	.194	31.6	21.0	29.3	25.0	3267	97.0	148	180	9.7	135	1.219	.0539	41.3	2517	4026

Percent of Small Car:

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	10.0		33.9				9.4		.5						
1976	8.8		29.2				5.0		.5						
1977	11.0		30.3				7.5		.9						
1978	19.9		42.6	5.2			10.3		1.5						
1979	24.4		48.5				9.4		2.2						
1980	37.8	1.1	52.8	4.1			11.1		3.7						
1981	48.1	.7	54.0	7.8			12.2		5.1						
1982	56.2	.7	50.8	26.7			13.0	6.6	4.0						
1983	61.6	1.0	48.6	33.7			18.9	16.1	2.4						
1984	63.2	.6	41.1	37.6			25.4	20.2	2.2						
1985	70.9	.2	39.8	37.8			28.0	27.6	1.4						
1986	74.5	.5	40.0	41.7			36.7	25.9	.4	91.7	5.6	2.7			
1987	80.7	.4	38.7	44.7			37.2	29.1	.2	77.0	14.8	8.2			
1988	85.2	.5	36.0	51.6			45.5	33.1	.0	71.2	13.1	15.7			
1989	86.3	1.0	33.8	51.8	.2		52.1	32.6	.1	60.9	18.1	21.0			
1990	89.0	.6	31.7	56.9	.1		69.9	28.3	.1	48.5	7.5	44.0			
1991	87.1	1.4	32.1	59.0	.1		72.2	27.5	.2	48.9	8.4	42.7		3.0	
1992	88.6	1.2	29.4	60.3	.0		87.2	12.7	.1	49.4	7.3	43.2		6.4	
1993	90.2	1.0	30.0	61.2	.0		89.7	10.3		49.7	5.6	44.7		6.5	
1994	88.4	.3	27.7	65.7			92.7	7.3		46.9	3.3	49.8		12.1	
1995	86.1	1.0	26.8	70.4			98.3	1.6	.1	32.8	2.0	65.2	.0	12.9	
1996	89.6	1.0	24.4	73.1	.0		97.9	2.1		32.4	1.8	65.8	.0	15.1	
1997	89.6	1.0	22.7	76.0	.1		98.5	1.5	.0	30.2	1.9	67.7	.2	15.0	
1998	86.1	1.2	22.1	77.0	.1		99.4	.3	.3	29.7	2.1	67.5	.7	20.1	
1999	87.0	1.3	19.7	79.3	.1		99.6	.2	.2	31.7	3.2	64.3	.8	18.5	
2000	83.4	1.1	20.8	77.5	.0		99.4	.1	.5	32.7	2.3	63.4	1.6	25.4	.1
2001	82.3	2.4	20.4	77.8	.5		99.4		.6	27.4	2.3	66.9	3.4	37.5	.1
2002	79.7	4.1	20.8	77.9	.9		99.2		.8	28.6	2.8	65.2	3.4	36.3	.7
2003	77.7	4.2	20.0	78.0	1.9		99.4		.6	16.8	2.6	77.2	3.3	42.5	1.3
2004	76.4	5.6	19.1	79.1	1.7		99.5		.5	15.6	1.9	79.4	3.1	48.7	.7
2005	77.7	4.9	18.2	80.2	1.5		99.5		.5	13.6	3.5	81.1	1.8	55.4	.9
2006	74.0	4.6	18.4	79.7	1.8		98.6		1.4	12.6	3.3	83.6	.4	66.5	1.0
2007	76.7	4.9	17.9	77.1	5.0		100.0			10.8	2.2	87.0	.1	63.4	1.1
2008	74.3	5.7	19.0	76.3	4.6		6.0	94.0		6.7	2.3	90.8	.1	63.6	1.2

Table E-2

Characteristics of 1975 to 2008 Mid-size Car

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	1631	.160	13.6	10.5	13.1	11.6	4630		353	158	13.9	115	.447	.0341	27.2		
1976	1964	.159	15.7	12.2	15.1	13.4	4558		343	156	13.8	114	.454	.0340	30.7		
1977	2226	.158	16.4	12.9	15.7	14.0	4473	112.9	332	151	13.9	114	.454	.0337	31.6	1601	3565
1978	3339	.231	18.6	14.4	17.9	15.8	3820	113.0	292	135	13.4	113	.464	.0353	30.3	1823	3422
1979	3211	.231	19.1	15.0	18.1	16.3	3710	113.1	272	128	13.6	112	.474	.0345	30.3	1870	3425
1980	2987	.264	21.6	16.8	21.0	18.4	3362	113.2	228	113	13.8	109	.512	.0336	31.1	2113	3523
1981	2902	.275	22.9	17.8	22.3	19.6	3346	113.9	220	107	14.2	108	.509	.0322	32.9	2255	3746
1982	2136	.219	24.0	18.4	23.8	20.5	3321	113.9	211	107	14.2	108	.529	.0324	34.3	2377	3906
1983	2269	.220	23.9	18.4	23.6	20.4	3316	113.8	212	111	13.8	109	.544	.0336	34.0	2363	3876
1984	2770	.198	24.1	18.5	23.9	20.6	3318	113.7	210	113	13.6	110	.563	.0342	34.3	2373	3896
1985	2777	.192	24.9	19.0	24.9	21.3	3318	113.6	205	117	13.3	112	.606	.0354	35.4	2453	4025
1986	2666	.174	25.9	19.6	25.9	22.0	3241	113.8	194	118	13.0	113	.640	.0364	35.8	2535	4074
1987	2252	.152	26.0	19.5	26.0	22.1	3247	113.7	188	123	12.7	114	.684	.0379	35.9	2540	4087
1988	2113	.138	26.7	19.7	27.1	22.6	3293	113.4	183	129	12.3	116	.718	.0389	37.3	2588	4230
1989	2591	.179	26.6	19.5	27.1	22.5	3314	113.6	181	131	12.2	117	.735	.0396	37.4	2574	4245
1990	2342	.186	26.2	19.0	26.8	22.1	3450	113.7	187	140	12.0	119	.758	.0407	38.2	2528	4342
1991	2114	.168	26.0	18.8	26.5	21.9	3412	113.5	191	146	11.5	121	.773	.0428	37.4	2497	4242
1992	2120	.174	25.8	18.4	26.3	21.6	3515	113.9	191	151	11.5	122	.801	.0427	38.0	2471	4333
1993	2330	.176	26.1	18.6	26.4	21.8	3515	113.9	192	153	11.4	123	.812	.0434	38.4	2497	4376
1994	2057	.146	25.9	18.3	26.0	21.5	3529	113.5	189	155	11.4	123	.827	.0437	38.0	2457	4320
1995	2515	.166	26.1	18.2	26.5	21.7	3546	114.3	189	166	10.7	127	.889	.0465	38.5	2491	4402
1996	2359	.179	26.5	18.5	26.5	21.9	3527	114.1	181	162	10.9	126	.906	.0459	38.6	2505	4407
1997	2399	.166	26.5	18.4	26.7	21.9	3551	114.5	184	170	10.6	128	.933	.0476	39.0	2522	4464
1998	2967	.205	27.1	18.7	26.9	22.3	3534	114.0	177	169	10.5	128	.965	.0477	39.5	2552	4500
1999	3141	.206	27.1	18.5	26.8	22.2	3540	114.0	175	170	10.5	128	.984	.0480	39.4	2538	4485
2000	2894	.175	27.0	18.4	26.5	22.0	3550	113.6	174	178	10.2	131	1.027	.0499	39.2	2512	4447
2001	2480	.159	27.2	18.5	26.5	22.1	3566	113.7	175	180	10.1	132	1.034	.0503	39.6	2529	4500
2002	2807	.174	27.7	18.8	26.5	22.4	3549	114.8	177	185	9.8	134	1.055	.0519	39.8	2581	4571
2003	2483	.157	28.3	18.9	27.3	22.8	3567	114.6	174	189	9.7	135	1.096	.0529	40.8	2628	4675
2004	2522	.161	28.7	19.0	27.5	23.0	3577	114.0	174	190	9.7	135	1.100	.0528	41.6	2667	4737
2005	2886	.182	29.8	19.7	28.2	23.8	3544	114.5	168	185	9.8	133	1.096	.0515	42.8	2793	4900
2006	2413	.160	29.6	19.6	28.0	23.6	3568	114.0	169	191	9.6	135	1.137	.0531	42.8	2759	4874
2007	3084	.202	31.2	20.6	29.1	24.7	3586	113.8	166	191	9.6	135	1.139	.0524	45.3	2914	5157
2008	2911	.177	31.5	20.9	29.1	24.9	3588	113.8	166	192	9.6	135	1.144	.0524	45.8	2949	5210

Percent of Mid-size Car:

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	2.7		.6				.7								
1976	2.5		.4				.6								
1977	2.1		.3				.7								
1978	1.4		1.7	11.1			1.4								
1979	5.2		1.9	21.4			2.3		1.4						
1980	30.2		7.8	25.3			1.0	1.5	2.5						
1981	32.3		5.6	52.2			.1	2.3	4.0						
1982	44.7		2.0	82.6			.2	15.4	3.8						
1983	48.9		1.2	80.0			.5	17.2	1.7						
1984	55.1		.9	82.0			3.8	25.6	1.0						
1985	61.9		1.3	77.6			13.0	37.1	.3						
1986	71.0	.1	1.8	76.4			25.4	42.3	.2	100.0					
1987	77.3	.2	1.5	77.6			40.7	43.4	.4	100.0					
1988	87.0	.1	3.8	91.1			66.9	28.0		93.4	6.5	.1			
1989	86.5	.1	4.7	91.7			78.3	21.0		94.3	4.9	.8			
1990	85.2	.2	3.9	93.9			86.6	13.3	.0	90.6	4.3	5.1		2.3	
1991	87.2	.1	3.6	94.5			88.7	11.2	.1	89.7	4.9	5.3		2.7	
1992	79.1	.1	2.7	96.6			94.7	5.3		77.0	1.6	21.4		3.6	
1993	85.4	.2	2.3	97.2			95.6	4.4		72.7		27.3		4.0	
1994	84.7		2.0	97.7			96.0	4.0		68.1		31.9		3.9	
1995	79.6		2.7	97.2			98.9	1.1		61.5		38.5		8.9	
1996	91.9		4.3	94.9			99.7		.3	52.6		47.4		11.0	
1997	90.6	.1	2.5	97.5			99.8		.2	50.1		49.9		10.1	
1998	95.2	.5	3.0	97.0			99.9		.1	44.5	1.2	53.1	1.3	22.0	
1999	95.2	.7	3.3	96.3			99.8		.2	36.1	1.4	59.7	2.7	20.9	
2000	92.3	.9	3.5	95.7			100.0			25.1	1.4	71.1	2.4	29.4	
2001	93.0	1.2	3.1	96.1			100.0			28.2	1.8	66.6	3.4	25.3	
2002	94.2	.8	2.6	97.1	.1		100.0			21.4	.9	74.7	3.0	45.0	
2003	91.7	.6	2.8	97.0	.1		100.0			21.9	2.5	72.1	3.6	55.3	
2004	91.7	1.0	3.2	94.2	1.9		99.9		.1	16.2	1.6	80.0	2.2	54.7	1.9
2005	91.4	1.9	3.2	92.4	4.2		99.6		.4	13.6	1.1	84.6	.7	68.5	4.9
2006	89.4	3.0	3.7	92.5	3.7		99.8		.2	12.5	.2	87.2	.2	78.5	3.8
2007	89.4	3.6	2.7	97.6	19.8		99.7		.3	7.3		92.7		79.3	7.8
2008	86.4	6.4	4.5	69.0	26.5		2.0	97.8	.1	7.9		92.1		73.0	9.6

Table E-3

Characteristics of 1975 to 2008 Large Car

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	1555	.152	13.1	10.2	12.6	11.2	5142		409	180	13.5	117	.439	.0348	28.9		
1976	1679	.136	14.2	11.1	13.5	12.1	5156		410	180	13.4	117	.440	.0349	31.1		
1977	2319	.164	15.9	12.4	15.2	13.5	4482	128.1	366	165	12.8	118	.453	.0370	30.4	1759	3895
1978	2048	.142	16.8	13.0	16.3	14.3	4394	128.5	357	162	12.8	118	.457	.0370	31.7	1869	4071
1979	2111	.152	17.4	13.7	16.5	14.8	4210	130.0	339	154	12.9	116	.454	.0365	31.3	1940	4073
1980	963	.085	19.1	14.7	18.8	16.3	4130	130.9	314	137	14.0	112	.440	.0331	34.0	2156	4448
1981	956	.091	20.4	15.4	20.8	17.4	4108	131.0	304	133	14.3	111	.444	.0325	36.4	2318	4762
1982	832	.085	20.7	15.6	21.0	17.7	4034	131.0	292	135	13.9	112	.468	.0337	36.0	2333	4715
1983	1079	.105	20.2	15.2	20.6	17.3	4041	131.3	292	140	13.4	113	.481	.0347	35.0	2272	4590
1984	1236	.088	20.5	15.5	21.0	17.5	4022	130.9	294	140	13.4	114	.478	.0349	35.3	2298	4622
1985	1512	.105	22.3	16.6	23.3	19.1	3841	129.3	279	143	12.7	116	.512	.0371	36.7	2470	4743
1986	1267	.082	23.9	17.6	25.4	20.4	3719	127.4	260	147	12.1	119	.577	.0396	38.0	2610	4845
1987	1218	.082	23.9	17.4	25.4	20.3	3696	127.0	259	149	11.8	120	.587	.0405	37.6	2588	4774
1988	1303	.085	24.2	17.6	25.6	20.6	3730	128.1	262	150	11.9	120	.587	.0405	38.4	2644	4923
1989	1289	.089	24.0	17.3	25.3	20.4	3721	127.4	261	158	11.4	122	.619	.0427	37.9	2598	4829
1990	1092	.087	23.7	16.9	25.1	20.0	3799	126.7	258	161	11.4	123	.639	.0427	38.0	2542	4819
1991	1012	.080	23.6	16.8	24.8	19.9	3893	129.0	264	178	10.7	127	.685	.0459	38.8	2575	5011
1992	1240	.102	23.8	16.8	25.0	20.0	3872	129.6	262	185	10.4	130	.715	.0480	38.8	2601	5032
1993	1103	.084	24.2	17.0	25.2	20.3	3831	128.9	256	181	10.5	129	.720	.0473	38.9	2627	5024
1994	1277	.090	24.1	16.8	24.9	20.1	3859	128.3	248	188	10.2	131	.766	.0487	38.8	2587	4986
1995	1305	.086	24.4	16.9	25.4	20.4	3830	127.9	248	206	9.4	138	.845	.0539	39.1	2618	5003
1996	1066	.081	24.3	16.7	25.3	20.3	3894	128.1	250	217	9.2	140	.879	.0557	39.5	2601	5058
1997	1195	.083	24.5	16.8	25.4	20.4	3821	127.4	242	216	9.1	141	.903	.0567	39.0	2606	4968
1998	912	.063	24.6	16.8	25.2	20.4	3784	127.4	240	218	8.9	142	.922	.0575	38.5	2601	4909
1999	1059	.070	24.8	16.8	25.2	20.5	3854	127.0	235	222	8.9	143	.971	.0576	39.5	2608	5014
2000	1665	.100	25.6	17.3	25.7	21.0	3782	124.9	221	215	9.2	141	.980	.0564	39.7	2627	4958
2001	1416	.091	25.4	17.1	25.5	20.8	3774	124.8	221	204	9.5	137	.932	.0538	39.3	2607	4912
2002	1252	.078	26.0	17.4	25.7	21.2	3767	124.0	218	209	9.3	139	.975	.0554	39.9	2637	4951
2003	1261	.080	26.0	17.3	25.6	21.1	3841	124.8	224	208	9.5	138	.929	.0538	40.6	2648	5068
2004	1185	.075	26.0	17.2	25.6	21.1	3858	124.7	225	211	9.4	139	.944	.0546	40.6	2642	5073
2005	1234	.078	26.4	17.4	25.5	21.2	3933	125.0	225	216	9.5	139	.964	.0545	41.8	2670	5230
2006	1570	.104	26.0	17.1	25.2	20.9	4014	124.7	229	238	8.9	145	1.045	.0589	42.2	2630	5263
2007	1162	.076	26.1	17.1	25.4	21.0	4022	123.7	227	234	9.1	144	1.035	.0578	42.5	2628	5262
2008	1646	.100	26.8	17.5	26.3	21.6	3980	123.4	221	241	8.7	147	1.109	.0602	43.3	2703	5343

Percent of Large Car:

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	1.5		.0												
1976	1.5		.0				1.2								
1977	1.5						.5								
1978	1.1			2.5			.2		1.4						
1979				6.5			.2		3.5						
1980				41.6				2.0	10.4						
1981				89.8				17.1	15.2						
1982				93.1				20.1	10.0						
1983				99.9				37.3	2.4						
1984				99.9				39.0	.8						
1985	31.9		100.0				19.1	44.9	.3						
1986	55.9		.7	99.2			65.4	15.8		99.3		.7			
1987	60.9		.5	99.5			69.9	15.2		98.9		1.1			
1988	58.7		.4	99.6			76.9	12.6		98.9		1.1			
1989	61.9		.3	99.7			74.8	22.2		99.2		.8			
1990	69.0		.2	99.8			92.9	6.0		99.5		.5			
1991	59.8		.4	99.6			83.3	16.7		99.1		.9			
1992	58.5		.3	98.5			89.2	10.7	.1	98.1		1.9		.7	
1993	64.8		.4	98.2			89.7	10.3		92.0		8.0		.9	
1994	69.2		.2	99.0			99.9		.1	82.9		17.1		.5	
1995	71.3		.2	98.3			100.0		.0	76.5		23.5		.7	
1996	67.7		.1	99.3			100.0			61.6		38.4		1.2	
1997	72.4		.4	99.6			100.0			64.4		35.6		1.8	
1998	74.2		.1	99.9			100.0			60.2		39.8		2.5	
1999	72.5			100.0			100.0			49.7		50.3		1.8	
2000	80.9	.0		100.0			100.0			60.2	1.2	38.6	.0	7.2	
2001	79.3	.1		100.0			100.0			64.0	2.3	33.6	.1	9.1	
2002	86.6	.0		100.0			100.0			62.8	2.1	35.0	.0	6.9	
2003	77.1	.3		100.0			100.0			72.7	1.7	25.5	.0	8.9	
2004	77.1	1.3		100.0			100.0			65.9	1.4	31.9	.8	10.6	
2005	68.6	3.8		96.7	3.2		100.0			64.4	.9	34.4	.4	8.8	
2006	62.7	3.8	.1	96.8	3.0		100.0			48.6	.9	50.2	.3	29.2	
2007	70.8	3.9	.1	98.7	1.1		100.0			52.9	.4	46.8		49.8	
2008	71.6	3.7	.8	99.1			.0	100.0		28.5	.2	71.3		57.4	

Table E-4

Characteristics of 1975 to 2008 Small Wagon

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	477	.047	22.4	17.4	21.6	19.1	2833		128	87	14.8	104	.713	.0307	27.3		
1976	345	.028	23.9	18.7	22.9	20.4	2902		136	86	15.2	103	.668	.0297	29.8		
1977	384	.027	25.5	20.2	23.8	21.7	2801	108.0	134	85	14.9	104	.685	.0305	30.8	2404	3317
1978	361	.025	24.3	19.2	22.9	20.7	2805	108.0	134	90	14.3	105	.709	.0319	29.5	2291	3176
1979	310	.022	25.7	20.3	24.3	21.9	2711	105.1	123	81	15.1	102	.684	.0295	29.8	2335	3135
1980	310	.027	28.6	22.6	27.0	24.4	2591	108.2	113	75	15.4	101	.685	.0289	32.0	2702	3463
1981	418	.040	30.0	23.6	28.5	25.6	2531	110.6	108	79	14.4	103	.755	.0313	32.6	2858	3601
1982	382	.039	30.6	23.9	29.4	26.1	2580	112.2	109	75	15.3	101	.698	.0289	33.8	2951	3789
1983	531	.052	32.2	25.3	30.5	27.4	2565	108.2	105	74	15.3	101	.713	.0289	35.3	2986	3817
1984	461	.033	31.9	24.9	30.7	27.2	2620	116.5	107	77	15.2	102	.719	.0294	35.9	3206	4180
1985	496	.034	32.5	25.4	30.9	27.7	2579	117.7	106	78	15.0	102	.727	.0300	35.9	3296	4227
1986	348	.023	31.0	24.2	29.2	26.3	2647	118.4	113	82	14.7	103	.730	.0308	35.1	3162	4150
1987	361	.024	30.7	23.8	28.9	25.9	2795	120.0	116	91	14.2	106	.788	.0324	36.5	3152	4378
1988	253	.017	31.3	24.3	29.0	26.3	2757	118.7	113	93	13.7	107	.829	.0336	36.4	3147	4317
1989	159	.011	31.5	24.2	29.4	26.4	2766	118.6	112	96	13.5	108	.862	.0344	36.6	3154	4339
1990	160	.013	29.6	22.4	27.7	24.7	3026	122.2	120	110	12.9	111	.920	.0361	37.4	3047	4577
1991	209	.017	30.6	22.8	28.9	25.4	3005	123.3	120	106	13.3	110	.880	.0350	38.3	3174	4726
1992	143	.012	30.2	22.3	28.6	25.0	3076	123.7	122	123	12.4	116	1.017	.0399	38.6	3133	4774
1993	301	.023	32.5	23.7	31.0	26.9	2882	123.0	118	99	13.5	108	.842	.0343	38.9	3342	4784
1994	206	.015	32.9	23.6	31.7	27.1	2908	122.9	121	103	13.3	110	.848	.0352	39.6	3381	4872
1995	198	.013	33.3	23.9	31.8	27.3	2859	122.1	118	100	13.4	109	.844	.0348	39.2	3372	4782
1996	90	.007	31.6	22.5	30.0	25.8	2952	118.0	122	114	12.5	113	.928	.0382	38.2	3079	4507
1997	149	.010	32.2	22.7	30.8	26.3	2901	119.5	124	117	11.8	116	.943	.0404	38.2	3173	4562
1998	98	.007	32.1	22.3	30.7	26.1	2874	116.9	124	119	11.7	117	.959	.0412	37.5	3079	4393
1999	78	.005	31.5	21.8	30.1	25.5	2923	117.9	125	126	11.3	119	1.004	.0428	37.4	3046	4413
2000	68	.004	29.2	20.0	28.2	23.7	3107	119.7	127	143	10.7	123	1.129	.0459	36.9	2860	4414
2001	212	.014	27.3	19.0	25.4	22.0	3470	119.6	145	148	11.3	121	1.022	.0426	38.2	2639	4570
2002	236	.015	26.1	18.0	24.4	21.1	3504	118.2	145	156	11.0	124	1.085	.0445	37.1	2504	4384
2003	338	.021	30.2	20.8	27.1	23.9	3262	115.2	127	146	11.0	123	1.162	.0448	39.6	2812	4557
2004	300	.019	31.4	21.6	27.7	24.7	3235	117.5	126	166	10.1	130	1.298	.0506	40.1	2943	4719
2005	365	.023	32.4	22.2	28.4	25.3	3160	115.9	122	156	10.4	127	1.268	.0487	40.3	2984	4671
2006	493	.033	31.4	21.3	27.8	24.6	3255	118.4	127	160	10.5	128	1.244	.0486	40.1	2940	4755
2007	393	.026	31.6	21.4	28.2	24.8	3267	111.9	127	160	10.4	128	1.249	.0485	40.7	2832	4571
2008	556	.034	32.1	21.8	28.6	25.2	3294	114.6	129	164	10.3	129	1.258	.0492	41.7	2937	4799

Percent of Small Wagon:

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	13.3		48.6				.8								
1976	12.2		42.8				3.2								
1977	23.3		52.9				6.4		.6						
1978	23.0		56.3				6.9								
1979	13.3	12.1	59.3				1.0								
1980	24.4	9.8	67.3	4.6			1.1		6.3						
1981	57.9	8.0	62.0	8.1			4.0		2.2						
1982	68.3	8.9	54.0	19.4			4.8	.7	1.2						
1983	55.4	39.3	51.0	23.7			3.7	17.0	.3						
1984	81.4	15.6	43.7	39.2			5.1	32.2	1.6						
1985	60.0	39.6	42.7	42.2			6.2	15.4	.5						
1986	78.4	20.7	43.3	29.0			6.8	24.3	.8	100.0					
1987	76.6	23.4	34.4	41.0			29.2	42.6		78.8	4.9	16.3			
1988	80.2	19.8	37.8	34.6			30.6	62.8		80.5	.6	18.9			
1989	89.9	10.1	26.6	51.8			41.0	48.8		59.8	3.2	36.9			
1990	68.3	31.7	30.6	58.8			59.4	40.6		35.5		64.5			
1991	79.1	20.9	24.4	74.1			80.0	20.0		51.4		48.6			
1992	73.0	25.5	30.9	68.2			95.3	4.7		54.7		45.3		1.4	
1993	83.2	16.2	28.9	70.6			95.8	4.2		73.5		26.5		.5	
1994	88.6	10.6	26.3	72.1			97.8	2.2		79.2		20.8		3.5	
1995	92.8	4.6	23.8	76.2			100.0			74.3		25.7		4.5	
1996	84.5	11.2	20.8	79.2			100.0			48.9		51.1		4.5	
1997	82.9	14.4	19.6	80.4			100.0			59.3		40.7		3.0	
1998	78.9	18.3	18.8	81.2			100.0			50.9		45.6	3.5	3.5	
1999	71.8	22.8	20.1	77.6			100.0			36.8		58.7	4.4	16.3	
2000	71.5	17.9	15.2	78.0			100.0			.8		95.8	3.4	43.1	
2001	92.6	5.1	14.9	84.5			100.0			2.6		95.2	2.2	4.1	
2002	82.0	14.9	19.6	79.8			99.1		.9	4.7	1.6	91.5	2.2	2.2	
2003	86.2	11.7	16.6	83.4			98.0		2.0	3.8	1.1	93.2	1.9	48.3	
2004	85.7	13.4	15.7	84.3			98.8		1.2	2.5	.9	95.0	1.6	51.5	
2005	89.0	10.7	15.5	84.5			98.9		1.1	20.9	.6	77.9	.6	60.4	
2006	90.8	8.8	11.9	88.1			100.0			10.4		89.6	.1	55.5	
2007	90.0	9.0	11.0	89.0			100.0			8.3		91.7	.1	49.2	
2008	90.0	9.8	22.6	77.4			4.4	95.6				100.0	.0	58.5	

Table E-5

Characteristics of 1975 to 2008 Mid-size Wagon

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	289	.028	13.2	10.2	12.9	11.3	4791		361	162	13.8	115	.473	.0338	27.4		
1976	485	.039	16.0	12.6	15.1	13.6	4555		315	142	14.8	110	.458	.0311	31.2		
1977	548	.039	16.3	12.9	15.3	13.9	4410	143.6	297	135	15.1	109	.459	.0305	30.7	2015	4417
1978	503	.035	18.6	14.6	17.6	15.8	3836	140.0	258	123	14.4	109	.484	.0320	30.5	2240	4266
1979	482	.035	19.1	15.2	17.9	16.3	3758	139.7	249	118	14.7	108	.480	.0313	30.7	2295	4293
1980	257	.023	21.1	16.5	20.1	18.0	3534	139.7	228	107	15.0	106	.482	.0304	31.9	2542	4455
1981	272	.026	23.1	18.1	21.8	19.6	3285	136.2	193	103	14.5	107	.562	.0316	32.4	2714	4417
1982	284	.029	23.7	18.5	22.6	20.2	3384	136.1	205	108	14.3	108	.551	.0320	34.3	2781	4669
1983	276	.027	24.4	19.1	23.3	20.8	3348	136.2	200	109	14.1	108	.568	.0325	35.0	2869	4759
1984	365	.026	25.0	19.4	24.2	21.3	3298	135.9	172	107	14.1	108	.633	.0324	35.3	2922	4793
1985	341	.024	25.2	19.4	24.6	21.5	3356	134.8	170	112	13.9	109	.679	.0334	36.2	2909	4876
1986	409	.027	26.0	19.8	25.7	22.1	3355	137.8	162	115	13.6	110	.718	.0342	37.1	3055	5116
1987	359	.024	25.6	19.3	25.6	21.8	3434	140.2	173	125	13.0	113	.735	.0363	37.4	3059	5245
1988	285	.019	26.2	19.4	26.5	22.2	3378	139.4	171	126	12.7	114	.743	.0372	37.7	3113	5249
1989	239	.017	25.6	18.8	25.9	21.7	3436	139.9	176	132	12.4	116	.765	.0383	37.3	3038	5217
1990	184	.015	25.3	18.3	25.9	21.3	3498	141.6	181	139	12.0	118	.782	.0397	37.4	3030	5298
1991	122	.010	25.9	18.6	26.4	21.8	3506	142.3	181	140	12.0	118	.794	.0401	38.3	3111	5451
1992	137	.011	26.2	18.6	26.9	21.9	3503	142.6	188	143	11.8	119	.777	.0408	38.5	3143	5502
1993	166	.013	26.2	18.7	26.6	21.9	3498	137.7	188	144	11.7	120	.790	.0411	38.4	3028	5296
1994	138	.010	26.0	18.4	26.4	21.7	3532	137.4	180	151	11.4	122	.863	.0428	38.4	2987	5273
1995	176	.012	26.6	18.8	26.6	22.1	3482	135.9	167	148	11.4	121	.915	.0426	38.5	3008	5235
1996	169	.013	26.3	18.5	25.8	21.7	3661	136.9	161	153	11.6	122	.965	.0422	39.8	2982	5458
1997	149	.010	26.3	18.5	25.5	21.6	3666	136.5	160	158	11.3	123	1.001	.0434	39.5	2948	5403
1998	153	.011	26.2	18.5	25.0	21.4	3668	135.3	155	169	10.7	127	1.097	.0461	39.3	2909	5327
1999	181	.012	26.3	18.3	25.4	21.5	3691	136.4	157	169	10.8	126	1.087	.0457	39.7	2940	5419
2000	234	.014	27.3	18.9	25.7	22.1	3572	134.0	153	162	11.0	125	1.060	.0452	39.5	2982	5294
2001	236	.015	26.6	18.5	24.8	21.5	3775	133.6	155	175	10.7	128	1.139	.0463	40.7	2905	5433
2002	208	.013	27.4	18.9	25.4	22.0	3731	133.6	152	172	10.7	127	1.136	.0460	41.0	2953	5477
2003	171	.011	27.2	18.6	25.4	21.9	3745	133.5	151	174	10.7	127	1.157	.0463	40.9	2936	5461
2004	158	.010	26.4	17.9	24.7	21.2	3860	135.0	158	189	10.3	131	1.208	.0489	41.0	2877	5531
2005	238	.015	26.0	17.4	24.4	20.8	3839	133.3	183	213	9.3	139	1.195	.0547	40.0	2810	5338
2006	220	.015	26.4	17.7	24.7	21.1	3827	135.6	182	221	9.1	142	1.221	.0570	40.4	2884	5481
2007	173	.011	26.6	17.8	24.8	21.2	3834	135.3	181	214	9.4	139	1.208	.0550	40.8	2908	5519
2008	173	.011	26.8	18.0	25.1	21.4	3845	133.2	176	204	9.7	136	1.172	.0524	41.3	2881	5497

Percent of Mid-size Wagon:

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				4.0				7.6		.2						
1976				7.1				3.4		.1						
1977				4.6				3.5		.3						
1978				5.3	17.2			3.0		.3						
1979				5.3	9.1			2.5		2.5						
1980				9.9	43.8			4.3		5.9						
1981	35.6			12.8	28.5			6.9		5.9						
1982	28.2			7.4	62.6			5.7		6.3						
1983	32.8			6.2	50.2			7.9		2.3						
1984	69.9			5.4	62.5			10.4	20.3	2.5						
1985	69.5	4.5		5.9	64.7			25.7	30.5	1.8						
1986	82.2	2.1		9.1	71.0			51.3	28.0	.2	100.0					
1987	83.9	.1		4.4	83.6			71.7	22.8	.8	100.0					
1988	87.7	.7		3.8	87.2			70.2	29.8		100.0					
1989	77.5	8.2		7.1	80.7			87.7	12.3		99.0		1.0			
1990	81.1	.4		1.7	87.9			98.5	1.5		96.6		3.4			
1991	79.6	1.3		2.4	85.6			99.3	.7		96.4		3.6			
1992	80.8	.6		1.7	88.9			99.7	.3		89.7		10.3			
1993	87.0	.6		1.8	91.2			100.0			88.4		11.6			
1994	89.0	.4		1.6	94.0			100.0			79.9		20.1		6.2	
1995	64.8	27.8		10.1	86.7			100.0			49.2		50.8		6.1	
1996	61.0	39.0		12.9	87.1			99.2		.8	36.5		63.5		6.8	
1997	48.5	51.5		13.4	86.6			99.9		.1	32.4		67.6		4.8	
1998	32.7	64.2		13.7	86.3			100.0			12.9	3.1	82.4	1.6	8.9	
1999	44.8	52.0		12.1	87.9			100.0			16.9	3.2	69.8	10.1	10.6	
2000	54.4	43.3		9.9	90.1			100.0			25.7	2.3	61.3	10.6	19.8	
2001	42.4	56.5		8.5	91.5			100.0			11.4	2.4	74.0	12.2	39.1	
2002	49.0	50.3		8.9	91.1			100.0			7.2	1.9	80.0	10.9	36.7	
2003	46.9	52.7		8.9	90.8			100.0			7.0	.7	74.1	18.2	30.9	
2004	40.3	58.2		7.3	92.7			99.4		.6	5.0	3.7	76.5	14.9	48.6	
2005	19.9	49.3		6.8	93.2			98.6		1.4	14.8	1.0	79.8	4.4	31.3	
2006	19.7	44.1		4.8	95.2			100.0			5.9	.8	93.2		34.1	
2007	39.3	42.9		4.8	95.2			100.0			10.6		89.4		27.4	
2008	33.3	51.7		5.9	94.1			3.6	96.4				100.0		23.1	

Table E-6

Characteristics of 1975 to 2008 Large Wagon

MODEL YEAR	SALES (000)	FRAC	<---- 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	197	.019	11.9 9.3 11.6 10.2	5453		410	181	14.0	116	.441	.0333	27.9		
1976	207	.017	13.5 10.6 12.9 11.5	5444		416	185	13.7	117	.445	.0340	31.4		
1977	340	.024	15.5 12.2 14.6 13.2	4713	163.1	365	161	13.6	115	.442	.0342	31.4	2185	5113
1978	293	.020	15.9 12.4 15.4 13.6	4664	162.4	354	162	13.4	116	.460	.0348	31.8	2216	5161
1979	275	.020	16.1 12.8 15.1 13.7	4466	162.5	333	155	13.4	115	.465	.0346	30.7	2240	4996
1980	102	.009	19.1 14.7 18.9 16.3	4423	161.5	323	134	15.2	109	.418	.0304	36.9	2690	5953
1981	108	.010	19.9 15.0 20.3 17.0	4394	161.4	312	131	15.3	108	.424	.0299	38.2	2797	6154
1982	146	.015	19.2 14.4 19.8 16.4	4396	161.3	306	139	14.6	110	.456	.0316	36.5	2677	5877
1983	130	.013	19.6 14.7 20.2 16.7	4379	161.6	307	142	14.1	112	.465	.0325	36.8	2714	5940
1984	176	.013	19.9 14.9 20.5 17.0	4371	161.7	305	144	13.9	112	.472	.0330	37.3	2760	6028
1985	145	.010	20.9 15.6 21.8 17.9	4354	161.7	305	153	13.2	115	.504	.0354	39.0	2894	6299
1986	120	.008	22.0 16.2 23.3 18.8	4381	161.4	304	146	13.9	113	.479	.0334	41.3	3040	6656
1987	88	.006	22.1 16.3 23.1 18.9	4348	161.8	304	143	14.0	112	.470	.0330	41.0	3051	6634
1988	75	.005	22.8 16.8 23.4 19.4	4349	161.7	304	143	14.0	112	.470	.0330	42.1	3131	6807
1989	63	.004	22.5 16.5 23.0 19.0	4334	161.8	304	143	13.9	112	.471	.0332	41.2	3081	6671
1990	31	.002	22.7 16.5 23.1 19.1	4337	161.6	304	143	13.9	112	.471	.0332	41.5	3092	6701
1991	34	.003	22.9 16.3 24.2 19.4	4402	169.1	304	177	11.9	122	.581	.0404	42.6	3273	7207
1992	27	.002	22.7 15.9 24.3 19.1	4500	170.3	338	177	12.1	121	.526	.0394	43.1	3261	7337
1993	19	.001	22.5 15.6 24.3 19.0	4500	169.3	340	174	12.2	120	.513	.0386	42.7	3214	7231
1994	16	.001	22.9 15.9 24.1 19.2	4500	169.2	350	250	9.1	144	.714	.0556	43.3	3254	7321
1995	10	.001	22.8 15.8 23.9 19.1	4500	169.3	350	250	9.1	144	.714	.0556	43.0	3233	7274
1996	9	.001	23.2 15.9 24.5 19.4	4500	170.2	350	260	8.9	147	.743	.0578	43.6	3298	7421
2004	98	.006	22.0 14.9 20.9 17.8	4769	165.0	215	249	9.6	140	1.158	.0524	42.4	2936	6996
2005	118	.007	22.2 14.9 21.1 17.9	4791	165.0	217	244	9.8	139	1.125	.0510	42.9	2958	7078
2006	102	.007	21.9 14.8 20.7 17.7	4806	164.4	219	254	9.5	142	1.165	.0531	42.4	2911	6969
2007	74	.005	21.6 14.2 21.5 17.6	4800	159.3	247	254	9.6	142	1.031	.0530	42.4	2826	6751
2008	74	.005	22.0 14.6 21.5 17.9	4851	159.4	233	249	9.7	140	1.074	.0515	43.4	2856	6915

Percent of Large Wagon:

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														
1976														
1977														
1978								1.4						
1979														
1980			74.0					26.7						
1981			100.0					.2	25.2					
1982			100.0						11.0					
1983			100.0					24.1	4.6					
1984			100.0					25.8	1.5					
1985			100.0					29.2	.4					
1986			100.0				23.7			100.0				
1987			100.0				30.3			100.0				
1988			100.0				30.2			100.0				
1989			100.0				33.1			100.0				
1990			100.0				32.7			100.0				
1991			100.0				19.5	80.5		100.0				
1992			100.0					100.0		100.0				
1993			100.0					100.0		100.0				
1994			100.0				100.0			100.0				
1995			100.0				100.0			100.0				
1996			100.0				100.0			100.0				
2004	46.1	53.9		100.0			100.0				100.0			
2005	60.1	39.9		100.0			100.0			14.5	85.5			
2006	57.8	42.2		100.0			100.0			.0	19.0	81.0	14.5	
2007	58.9	41.1		100.0			99.4	.6	11.9	11.7	76.4		5.3	
2008	53.7	42.1		100.0			99.4	.6	14.5		85.5		23.3	

Table E-7

Characteristics of 1975 to 2008 Small Van

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	2	.000	20.6	16.2	19.6	17.5	3498	118	78	19.1	96	.656	.0224	30.7	
1976	1	.000	19.9	15.1	20.1	17.0	3500	120	67	20.9	92	.558	.0191	29.8	
1977	2	.000	22.2	17.2	21.5	18.9	3500	120	67	20.8	92	.558	.0191	33.1	
1978	3	.000	20.0	15.7	19.1	17.0	3500	120	67	20.9	92	.558	.0191	29.8	
1979	8	.001	18.7	14.8	17.6	16.0	3500	120	67	20.9	92	.558	.0191	28.0	
1980	16	.001	19.0	14.7	18.6	16.2	3618	120	67	21.4	91	.558	.0186	29.4	
1981	11	.001	18.5	14.6	17.4	15.8	3644	120	67	21.6	91	.558	.0185	28.7	
1982	15	.002	21.7	17.7	19.4	18.4	3668	111	61	23.4	89	.550	.0168	35.6	
1983	14	.001	19.7	15.6	18.4	16.8	3567	118	69	20.9	92	.583	.0194	30.3	
1984	83	.006	25.6	20.8	23.0	21.7	3313	120	87	16.6	100	.721	.0265	36.4	
1985	93	.006	25.5	20.7	23.1	21.7	3270	121	88	16.2	101	.727	.0272	35.6	
1986	102	.007	25.7	20.6	23.1	21.7	3298	131	95	15.3	104	.728	.0291	36.0	
1987	126	.008	24.3	19.4	21.9	20.5	3299	134	98	15.0	105	.736	.0301	34.0	
1988	55	.004	24.5	19.2	22.3	20.6	3402	134	100	15.1	105	.751	.0297	35.2	
1989	35	.002	25.0	19.8	22.4	20.9	3390	130	98	15.3	104	.755	.0293	35.5	
1990	30	.002	23.9	18.5	21.8	20.0	3554	140	120	14.0	111	.855	.0344	35.6	
1991	15	.001	24.0	18.6	21.5	19.9	3402	124	95	15.8	103	.761	.0284	33.8	
1992	40	.003	27.0	20.2	25.3	22.4	3217	129	115	13.0	112	.901	.0358	36.1	
1993	12	.001	28.2	20.9	26.4	23.3	3032	121	120	12.0	115	.991	.0396	35.4	
1994	11	.001	27.0	19.7	25.7	22.3	3248	135	130	11.9	117	.966	.0402	36.3	
1995	6	.000	26.5	19.3	24.8	21.8	3163	134	130	11.7	118	.967	.0411	34.6	
1996	2	.000	26.2	18.8	24.9	21.5	3416	142	134	12.1	117	.949	.0394	36.8	

Percent of Small Van:

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	20.0		41.9	50.1			54.4	25.6	2.4						
1985	18.7	3.2	40.8	53.3			57.7	20.5							
1986	22.4	13.1	36.4	60.8			64.5								
1987	20.5	17.0	30.4	66.8			65.1	18.1							
1988	21.1	16.0	28.4	68.6			81.6	18.4							
1989	27.6	21.3	30.0	65.4			99.7	.3							
1990	55.8	22.8	20.8	55.9			99.0	1.0							
1991	42.3	28.4	45.2	36.5			100.0								
1992	84.4	15.6	26.8	73.2			100.0								
1993	98.5	1.5	14.5	85.5			100.0								
1994	66.1	33.9	14.1	85.9			100.0			42.9	33.9	23.3			
1995	27.3	72.7	18.8	81.2			100.0					100.0			
1996	92.3	7.7	3.8	96.2			100.0					100.0			

Table E-8

Characteristics of 1975 to 2008 Mid-size Van

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	302	.030	13.3	10.8	11.9	11.3	4230	310	141	13.9	112	.454	.0334	24.5	
1976	308	.025	14.1	11.3	12.9	12.0	4277	317	143	14.0	112	.449	.0334	26.1	
1977	313	.022	14.3	11.6	12.8	12.1	4348	326	149	13.6	114	.456	.0343	26.6	
1978	399	.028	13.8	11.3	12.2	11.7	4345	327	152	13.3	115	.465	.0351	25.9	
1979	313	.023	14.3	11.8	12.5	12.1	4506	320	137	15.0	109	.433	.0305	27.6	
1980	130	.011	16.9	13.5	15.6	14.3	4230	288	136	14.3	111	.475	.0321	30.5	
1981	138	.013	17.9	14.3	16.5	15.2	4248	279	134	14.6	110	.480	.0315	32.4	
1982	180	.019	17.9	14.3	16.5	15.2	4266	284	139	14.3	111	.485	.0324	32.5	
1983	230	.022	18.7	14.8	17.4	15.9	4396	294	141	14.5	111	.480	.0320	35.3	
1984	420	.030	19.2	15.1	18.1	16.3	4081	248	127	14.8	109	.538	.0309	33.8	
1985	600	.041	19.8	15.8	18.5	16.9	3945	233	131	14.1	111	.586	.0330	33.7	
1986	782	.051	20.8	16.2	19.7	17.6	3964	224	129	14.3	110	.595	.0323	35.2	
1987	848	.057	21.2	16.3	20.3	18.0	3959	226	146	12.9	116	.671	.0368	35.8	
1988	941	.062	21.8	16.6	21.0	18.4	3974	223	148	12.7	117	.691	.0373	36.7	
1989	1100	.076	21.8	16.5	20.9	18.3	3980	218	146	12.9	116	.700	.0367	36.7	
1990	1124	.089	21.8	16.3	21.0	18.3	4033	219	148	12.9	116	.693	.0367	37.1	
1991	943	.075	21.9	16.3	20.9	18.3	4079	214	148	13.0	116	.714	.0363	37.5	
1992	1088	.089	21.8	16.2	20.9	18.2	4102	218	152	12.8	117	.713	.0369	37.5	
1993	1323	.100	22.3	16.4	21.5	18.6	4033	211	153	12.5	118	.741	.0380	37.5	
1994	1295	.092	22.0	16.1	21.0	18.2	4078	219	158	12.4	119	.732	.0386	37.3	
1995	1552	.102	22.2	16.0	21.4	18.4	4041	226	158	12.3	119	.717	.0390	37.3	
1996	1298	.099	22.8	16.3	22.0	18.8	4115	211	168	11.8	122	.806	.0410	38.8	
1997	1126	.078	22.6	16.1	21.7	18.6	4132	210	168	11.8	122	.810	.0407	38.5	
1998	1357	.094	23.3	16.4	22.5	19.1	4090	209	176	11.3	125	.849	.0431	39.2	
1999	1292	.085	23.0	16.1	22.3	18.9	4199	213	177	11.4	124	.842	.0422	39.7	
2000	1522	.092	23.5	16.3	22.6	19.2	4197	208	178	11.4	124	.869	.0426	40.3	
2001	938	.060	24.0	16.5	22.9	19.5	4267	206	190	11.0	127	.930	.0446	41.7	
2002	1131	.070	23.7	16.3	22.6	19.2	4332	210	197	10.8	129	.945	.0456	41.8	
2003	1121	.071	24.1	16.4	22.9	19.5	4313	212	198	10.7	130	.940	.0461	42.1	
2004	893	.057	24.1	16.2	23.1	19.5	4431	214	212	10.4	133	.999	.0479	43.2	
2005	1425	.090	24.2	16.2	23.0	19.5	4398	213	208	10.5	132	.983	.0473	42.9	
2006	1096	.073	24.7	16.4	23.6	19.9	4431	212	210	10.5	132	.995	.0474	44.0	
2007	845	.055	24.5	16.3	23.5	19.8	4432	217	224	9.9	136	1.038	.0506	43.9	
2008	862	.053	24.7	16.5	23.6	19.9	4533	217	223	10.3	135	1.027	.0491	45.2	

Percent of Mid-size Van:

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			19.1												
1976			17.6												
1977			11.8												
1978			10.6												
1979			13.5	10.4											
1980			21.9	71.3											
1981	.6		16.0	81.1											
1982			10.5	78.7											
1983			9.1	77.2					7.1						
1984	32.0		12.0	48.7					1.5						
1985	40.4		6.1	45.9			.1	1.0	.4						
1986	29.7		5.7	61.5			10.9	21.7	.2						
1987	33.1		3.9	70.6			36.9	36.8	.1						
1988	42.4		2.6	83.1			49.9	49.8	.1						
1989	39.0	.1	2.3	80.2			52.0	47.9	.1						
1990	51.0	6.8	1.2	96.2			53.5	46.4	.1						
1991	41.2	11.5	.7	99.0			60.2	39.7	.1						
1992	47.8	5.6	.8	98.3			68.6	31.3	.1						
1993	53.4	4.9	1.1	98.6			77.4	22.6							
1994	56.7	6.8	.4	98.7			79.6	20.4		96.6	2.0	1.3			
1995	65.5	9.4		99.5			86.9	13.1		95.5	1.1	3.4			
1996	80.0	2.5		99.5			100.0			93.9	1.1	5.0			
1997	72.6	5.3		99.5			100.0			92.9	1.2	5.9			
1998	86.0	3.5		100.0			100.0			88.6		11.4			
1999	86.0	3.1		100.0			100.0			85.9		14.1		9.3	
2000	89.5	3.0		100.0			100.0			76.0		24.0		16.7	
2001	91.0	3.3		100.0			100.0			70.4		29.6		22.3	
2002	92.6	3.3		100.0			100.0			68.9		31.1		22.9	
2003	91.4	4.9		100.0			100.0			72.0		28.0		21.5	
2004	92.4	4.8		100.0			100.0			44.2		55.8		49.2	
2005	92.6	5.4		94.7	5.3		100.0			60.6		39.4		26.0	
2006	95.5	4.5		95.0	5.0		100.0			50.2		49.8		38.8	
2007	97.2	2.8		96.1	3.9		100.0			47.2		52.8		48.9	
2008	95.7	3.3		100.0			100.0			23.8		76.2		45.4	

Table E-9

Characteristics of 1975 to 2008 Large Van

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	153	.015	12.6	10.0	11.7	10.7	4135	334	148	13.7	115	.434	.0356	22.5	
1976	192	.016	13.4	10.6	12.7	11.4	4081	335	151	13.3	117	.444	.0370	23.8	
1977	199	.014	15.5	12.5	14.1	13.2	4110	343	158	12.6	119	.459	.0385	27.4	
1978	224	.015	15.0	12.2	13.6	12.8	4088	335	145	13.3	114	.430	.0354	26.5	
1979	159	.011	12.1	9.7	11.1	10.3	4665	336	163	13.5	116	.480	.0348	24.3	
1980	96	.008	16.0	12.8	14.7	13.6	4639	315	133	15.5	107	.421	.0287	31.9	
1981	96	.009	16.8	13.5	15.3	14.3	4513	310	128	15.6	107	.414	.0285	32.5	
1982	115	.012	16.1	13.0	14.7	13.7	4548	314	131	15.5	107	.418	.0289	31.5	
1983	138	.013	16.2	12.9	15.0	13.8	4532	314	134	15.1	108	.429	.0297	31.5	
1984	174	.012	16.4	13.0	15.4	14.0	4421	314	143	14.4	111	.452	.0322	31.2	
1985	162	.011	16.1	12.7	15.1	13.7	4491	312	146	14.3	112	.464	.0325	30.9	
1986	160	.010	17.6	13.8	16.5	14.9	4610	306	142	14.9	110	.464	.0308	34.6	
1987	140	.009	17.0	13.2	16.1	14.4	4659	309	155	13.9	113	.500	.0332	33.7	
1988	137	.009	16.9	13.0	16.0	14.3	4858	309	156	14.3	113	.502	.0321	34.8	
1989	142	.010	16.8	12.9	15.7	14.1	4821	309	155	14.3	113	.501	.0323	34.2	
1990	107	.009	16.5	12.6	15.7	13.9	4901	314	162	14.0	114	.514	.0331	34.1	
1991	76	.006	16.7	12.6	15.8	14.0	4943	312	162	14.1	114	.518	.0329	34.7	
1992	93	.008	16.9	12.6	16.2	14.2	5132	315	167	14.2	114	.527	.0326	36.5	
1993	106	.008	17.0	12.6	16.1	14.1	5132	315	178	13.5	117	.565	.0348	36.4	
1994	112	.008	17.0	12.5	16.3	14.2	5156	318	183	13.3	118	.577	.0357	36.5	
1995	104	.007	17.1	12.5	16.3	14.2	5185	314	178	13.7	117	.567	.0345	36.8	
1996	109	.008	17.1	12.4	16.3	14.1	5153	325	197	12.7	122	.604	.0384	36.5	
1997	139	.010	18.6	13.3	17.8	15.3	5121	300	221	11.3	129	.740	.0432	39.3	
1998	132	.009	18.3	13.1	17.6	15.1	5137	297	220	11.3	129	.745	.0430	38.9	
1999	171	.011	17.9	12.7	17.0	14.7	5124	297	223	11.2	130	.756	.0436	37.7	
2000	170	.010	18.0	12.8	16.8	14.7	4988	296	221	11.1	130	.750	.0444	36.7	
2001	294	.019	17.7	12.5	16.9	14.5	5322	303	239	10.9	132	.791	.0450	38.7	
2002	112	.007	17.9	12.7	16.5	14.6	5025	293	223	11.0	130	.765	.0444	36.7	
2003	111	.007	18.7	13.2	17.0	15.1	5203	289	233	11.0	132	.811	.0447	39.5	
2004	60	.004	19.4	13.5	17.9	15.7	5314	292	239	10.9	132	.817	.0450	41.6	
2005	55	.003	19.4	13.4	17.7	15.6	5241	288	234	11.0	131	.808	.0445	40.8	
2006	70	.005	19.4	13.4	17.7	15.6	5171	283	229	11.1	131	.806	.0443	40.3	
2007	32	.002	19.8	13.7	18.2	15.9	5236	284	230	11.3	130	.801	.0436	41.7	
2008	30	.002	20.0	13.9	18.1	16.0	5371	296	252	10.7	135	.843	.0466	43.1	

Percent of Large Van:

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			31.4												
1976			24.8												
1977			17.4												
1978			16.5												
1979			13.9												
1980			22.2	1.6											
1981			23.5	2.6											
1982			14.4	.4											
1983			10.3	35.6											
1984			11.2	35.8											
1985			6.5	49.5											
1986			4.8	52.8			47.7		1.2						
1987			2.0	50.4			82.8	1.4							
1988			1.5	52.5			94.7	4.5							
1989			1.2	51.1			95.0	5.0							
1990				75.3			94.5	5.5							
1991				77.6			95.0	5.0							
1992				83.7			97.2	2.8							
1993		.2		80.9			97.3	2.7							
1994				83.7			98.1	1.9		100.0					
1995	1.7		.8	80.2			94.5	5.5		100.0					
1996				85.1			100.0			100.0					
1997	1.2			100.0			100.0			100.0					
1998				100.0			100.0			100.0					
1999	.6			100.0			100.0			100.0					
2000	1.0			100.0			100.0			100.0					
2001		25.8		100.0			100.0			100.0					
2002	.7			100.0			100.0			99.3			.7		
2003	3.9	6.5		100.0			100.0			96.1			3.9		
2004		7.3		100.0			100.0			100.0					
2005		7.0		100.0			100.0			100.0					
2006		5.7		100.0			100.0			100.0					
2007		12.5		100.0			100.0			100.0					
2008		20.1		100.0			100.0			100.0					

Table E-10

Characteristics of 1975 to 2008 Small SUV

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	53	.005	16.1	12.7	15.1	13.7	2897	273	118	11.9	117	.429	.0416	19.8	
1976	60	.005	15.9	12.8	14.5	13.5	2980	273	108	12.7	112	.397	.0367	20.3	
1977	72	.005	17.0	13.7	15.5	14.5	3055	274	111	12.7	112	.405	.0367	22.2	
1978	91	.006	16.9	13.5	15.4	14.3	2986	275	109	12.6	112	.398	.0370	21.4	
1979	104	.008	16.7	13.9	14.5	14.2	3192	261	117	12.7	113	.463	.0367	22.6	
1980	60	.005	18.8	15.3	17.0	16.0	3083	227	95	14.6	105	.454	.0306	24.9	
1981	43	.004	20.4	16.3	18.7	17.3	3054	224	102	13.6	108	.475	.0335	26.7	
1982	42	.004	20.5	16.6	18.5	17.4	2922	207	97	13.9	107	.495	.0331	25.5	
1983	55	.005	21.4	17.4	19.1	18.1	2830	210	100	13.3	109	.505	.0349	25.6	
1984	145	.010	21.6	17.3	19.8	18.3	3302	186	101	14.7	106	.563	.0308	30.3	
1985	115	.008	22.1	17.2	21.3	18.8	3438	167	98	15.5	103	.596	.0285	32.3	
1986	177	.012	23.7	18.5	22.3	20.1	3231	167	118	13.0	112	.734	.0361	32.4	
1987	254	.017	24.2	18.9	22.6	20.4	3169	161	112	13.4	110	.723	.0347	32.3	
1988	288	.019	24.2	18.8	22.4	20.4	3128	157	112	13.2	111	.739	.0351	31.9	
1989	228	.016	22.8	17.7	21.0	19.1	3443	171	120	13.3	111	.731	.0347	33.0	
1990	189	.015	23.4	18.1	21.3	19.5	3329	162	115	13.4	110	.749	.0345	32.6	
1991	136	.011	23.6	18.7	20.5	19.5	3195	145	110	14.0	109	.769	.0339	31.4	
1992	129	.011	23.4	18.4	20.3	19.3	3087	146	117	13.0	113	.811	.0373	30.2	
1993	144	.011	23.2	18.2	20.1	19.1	3113	150	121	12.8	114	.814	.0383	30.0	
1994	188	.013	24.1	18.6	20.9	19.7	3049	139	115	12.9	113	.842	.0373	30.3	
1995	189	.013	24.2	18.6	20.9	19.7	2965	138	117	12.4	115	.864	.0391	29.5	
1996	120	.009	28.5	21.3	25.1	23.1	2896	107	106	12.8	111	.988	.0365	33.5	
1997	489	.034	22.8	16.7	20.7	18.6	3473	182	152	11.2	122	.861	.0434	32.4	
1998	316	.022	23.8	17.5	21.3	19.3	3474	162	154	11.2	123	.970	.0440	33.9	
1999	314	.021	24.1	17.7	21.3	19.4	3522	157	148	11.5	121	.969	.0418	34.6	
2000	400	.024	22.5	16.4	19.9	18.1	3742	171	154	11.7	121	.929	.0411	34.2	
2001	390	.025	24.9	18.0	21.6	19.8	3483	153	152	11.1	123	1.026	.0437	35.0	
2002	354	.022	24.7	17.7	21.6	19.7	3528	156	157	10.9	124	1.048	.0447	35.3	
2003	264	.017	25.2	17.8	22.2	20.0	3498	161	160	10.7	125	1.040	.0458	35.4	
2004	256	.016	24.7	17.1	22.1	19.6	3587	181	174	10.2	130	.999	.0488	35.6	
2005	215	.014	24.3	16.9	21.5	19.3	3521	178	173	10.1	130	1.009	.0492	34.8	
2006	132	.009	21.5	15.0	19.2	17.2	3774	200	183	10.2	130	.955	.0485	33.5	
2007	162	.011	22.4	15.7	19.7	17.7	4048	209	186	10.6	129	.917	.0463	36.2	
2008	143	.009	22.9	15.9	20.5	18.2	4059	213	187	10.6	129	.903	.0464	37.2	

Percent of Small SUV:

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		88.3	100.0												
1976		85.9	84.6												
1977		79.1	90.1												
1978		85.5	86.9												
1979		87.3	77.5												
1980		100.0	88.6												
1981		100.0	90.5	8.8											
1982		74.2	67.4	6.8											
1983		77.2	70.5	6.6											
1984		97.9	42.2	3.2											
1985		100.0	55.1	44.0					.0						
1986		100.0	60.2	37.4			62.3								
1987		91.0	65.3	25.3			44.0	4.2							
1988		86.7	67.3	27.3			51.7	2.3							
1989		84.9	60.4	31.1			53.9	26.0							
1990		85.8	64.6	31.6			48.2	36.0							
1991		65.6	61.0	33.9			39.3	59.4							
1992		62.6	66.5	28.8			49.7	47.9							
1993		66.4	63.5	31.0			57.3	40.4							
1994		67.1	59.6	26.9			63.9	36.1		90.6		9.4			
1995		86.6	70.4	29.6			78.9	21.1		100.0					
1996	14.9	65.6	39.7	60.3			100.0					100.0			
1997	6.2	78.3	41.6	53.9			100.0			52.7		47.3			
1998	8.8	73.6	42.6	57.4			100.0			28.6		71.4			
1999	8.7	79.0	35.4	64.6			100.0			38.1		61.9			
2000	5.4	67.2	27.1	72.9			100.0			62.9		37.1			
2001	10.4	62.9	20.6	79.4			100.0			46.7		53.3		22.3	
2002	20.2	67.3	20.4	79.5	.1		100.0			34.6		65.4		27.1	
2003	20.4	77.1	22.5	77.5	.0		100.0			40.3		59.7		29.2	
2004	15.5	80.7	23.4	76.6			100.0			33.2		66.8		30.4	
2005	18.9	78.9	23.5	76.5			100.0			33.0		67.0		38.2	
2006		100.0	35.1	64.9			100.0			54.7		45.3		2.4	
2007		92.1	25.7	74.3			100.0			72.9		27.1		1.4	
2008		88.8	27.6	72.4			100.0			77.4		22.6		1.6	

Table E-11

Characteristics of 1975 to 2008 Mid-size SUV

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	123	.012	12.1	9.9	10.6	10.2	4724	349	156	14.0	113	.445	.0330	24.3	
1976	168	.014	13.3	10.7	12.0	11.3	4730	354	150	14.5	112	.422	.0318	26.7	
1977	194	.014	14.6	11.8	13.2	12.4	4610	349	153	13.9	113	.439	.0334	28.7	
1978	270	.019	13.8	11.1	12.7	11.8	4653	358	160	13.4	115	.449	.0345	27.4	
1979	187	.013	11.9	9.7	10.5	10.1	4807	344	153	14.5	112	.446	.0318	24.3	
1980	100	.009	14.3	11.5	13.0	12.1	4708	324	145	14.8	110	.448	.0308	28.9	
1981	79	.008	15.6	12.4	14.5	13.3	4664	317	140	15.0	109	.445	.0301	31.3	
1982	98	.010	16.4	13.1	15.2	13.9	4732	320	140	15.2	109	.441	.0297	34.2	
1983	203	.020	18.8	14.6	18.0	16.0	4312	250	126	15.3	107	.537	.0293	35.4	
1984	431	.031	18.9	14.8	18.1	16.1	4092	226	123	15.0	107	.571	.0299	33.7	
1985	563	.039	19.7	15.3	19.2	16.8	4011	212	122	14.9	108	.602	.0304	34.3	
1986	538	.035	19.7	15.4	18.7	16.7	4006	204	126	14.4	109	.653	.0315	33.9	
1987	562	.038	19.8	15.2	19.1	16.8	3975	216	141	13.3	114	.679	.0357	33.6	
1988	610	.040	19.5	14.9	18.8	16.5	4017	234	152	12.6	118	.675	.0384	33.3	
1989	624	.043	19.5	14.9	18.6	16.5	4026	254	161	12.0	121	.650	.0406	33.4	
1990	447	.035	19.1	14.4	18.4	16.1	4079	243	162	12.1	121	.689	.0404	32.9	
1991	904	.072	20.2	15.1	19.5	16.9	4112	236	163	12.0	120	.699	.0399	35.0	
1992	799	.066	19.9	14.7	19.1	16.6	4106	233	170	11.7	123	.735	.0418	34.1	
1993	1038	.079	20.0	14.7	19.3	16.7	4115	242	183	11.0	127	.764	.0449	34.5	
1994	1265	.090	19.8	14.5	18.8	16.4	4192	238	182	11.2	126	.772	.0437	34.6	
1995	1397	.092	19.6	14.3	18.7	16.3	4213	237	179	11.4	125	.766	.0428	34.5	
1996	1528	.116	20.0	14.5	19.1	16.5	4196	249	182	11.2	126	.740	.0438	34.9	
1997	1401	.097	20.5	14.8	19.1	16.8	4220	235	178	11.5	124	.780	.0425	35.6	
1998	1623	.112	20.8	14.9	19.5	17.0	4151	236	178	11.3	125	.774	.0431	35.4	
1999	1762	.116	21.0	15.1	19.4	17.1	4175	228	189	10.8	128	.856	.0454	35.8	
2000	1863	.112	21.0	14.9	19.4	17.0	4170	229	188	10.9	128	.846	.0452	35.6	
2001	1944	.125	21.7	15.3	20.0	17.5	4110	214	194	10.5	131	.936	.0475	36.2	
2002	1802	.112	21.8	15.4	19.9	17.6	4090	204	198	10.3	132	.989	.0486	36.1	
2003	2093	.133	22.4	15.6	20.6	18.0	4131	205	200	10.3	132	.995	.0486	37.4	
2004	2502	.159	22.5	15.5	20.7	18.1	4179	214	209	10.0	134	.994	.0501	37.9	
2005	2079	.131	23.0	15.8	21.0	18.4	4187	204	209	10.0	134	1.043	.0499	38.6	
2006	2117	.140	23.6	16.2	21.4	18.8	4236	204	209	10.0	134	1.041	.0493	40.2	
2007	2142	.140	24.7	17.0	22.2	19.6	4155	195	214	9.9	136	1.114	.0512	41.0	
2008	2701	.165	25.2	17.3	22.6	20.0	4166	192	215	9.8	136	1.132	.0513	41.9	

Percent of Mid-size SUV:

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		88.4	18.3												
1976		91.1	17.7												
1977		89.5	17.8												
1978		93.9	17.7												
1979		90.3	19.1	1.2											
1980		95.8	22.4	29.7					2.9						
1981		96.8	21.0	48.6											
1982		93.0	19.8	45.0					13.5						
1983		89.2	26.3	56.1					4.3						
1984		86.9	28.2	50.0					1.2						
1985		81.4	25.1	59.4			5.0	2.0	.8						
1986		87.3	33.8	57.1			13.9	36.9	1.3						
1987		85.5	27.6	63.6			31.4	53.4	.2						
1988		87.1	21.1	70.2			50.8	46.1	.1						
1989		86.4	16.7	75.4			48.7	49.2	.1						
1990		89.8	19.6	75.9			70.4	28.0	.1						
1991		79.6	17.3	81.7			64.9	34.6	.0						
1992		74.4	17.4	82.6			82.6	17.4							
1993		57.9	11.6	88.4			99.4	.6							
1994	.7	78.7	12.3	87.7			99.7	.3		86.0	5.5	8.5			
1995	.0	79.4	10.3	89.7			100.0			80.3		19.7			
1996		70.8	6.1	93.9			100.0			88.8		11.2			
1997		68.5	5.9	94.1			100.0			75.8		24.2			
1998	1.2	71.6	4.7	95.3			100.0			80.3		19.7			
1999	2.7	68.7	3.8	96.2			100.0			69.5	2.0	28.5		5.2	
2000	3.1	69.1	2.8	97.2			100.0			69.7		30.3		4.8	
2001	20.6	57.7	3.2	96.8			100.0			54.2		45.8		13.0	
2002	15.8	62.2	4.6	95.1	.1		100.0			36.0		64.0		24.6	
2003	18.9	63.1	2.9	95.2	1.9		100.0			36.9	.0	63.1		32.2	
2004	19.4	65.7	2.7	94.0	3.3		100.0			38.8		61.2		33.7	
2005	24.1	64.4	2.5	96.9	.6		99.6		.4	25.9		74.1		43.8	.5
2006	26.3	60.5	2.2	93.1	4.7		99.7		.3	27.7	1.5	70.9		51.6	4.7
2007	31.6	58.6	2.0	92.4	5.6		99.9		.1	16.7		83.3		65.6	2.9
2008	31.9	58.7	2.1	85.0	12.9		2.0	97.6	.4	15.0		85.0		62.6	3.0

Table E-12

Characteristics of 1975 to 2008 Large SUV

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	11	.001	12.2	10.0	10.7	10.3	4728	364	171	13.0	118	.467	.0361	24.5	
1976	16	.001	12.7	10.1	11.6	10.8	4904	373	166	13.9	115	.440	.0338	26.6	
1977	17	.001	13.6	11.1	12.2	11.6	4870	371	170	13.6	116	.453	.0348	28.6	
1978	19	.001	13.2	10.8	11.7	11.2	4953	373	168	13.5	116	.455	.0342	27.9	
1979	109	.008	11.1	9.3	9.4	9.4	5260	375	152	15.8	109	.403	.0288	24.8	
1980	23	.002	14.3	11.3	13.4	12.2	5188	340	160	14.7	112	.471	.0309	31.8	
1981	14	.001	15.3	12.3	14.1	13.0	5127	338	170	13.9	115	.502	.0331	33.4	
1982	22	.002	18.9	14.4	18.9	16.1	5410	344	146	16.5	107	.427	.0273	45.0	
1983	30	.003	17.6	13.6	17.1	15.0	5327	355	153	15.8	109	.435	.0290	41.5	
1984	49	.003	16.9	13.0	16.5	14.4	5247	351	157	15.1	111	.450	.0302	38.6	
1985	57	.004	16.9	12.9	16.8	14.4	5248	350	161	14.9	112	.460	.0308	38.4	
1986	58	.004	16.8	12.8	16.7	14.3	5227	350	162	14.7	112	.464	.0311	37.9	
1987	57	.004	17.0	12.9	16.6	14.4	5501	350	205	12.7	122	.587	.0373	39.8	
1988	69	.005	16.6	12.6	16.2	14.0	5518	351	199	13.0	120	.568	.0361	38.9	
1989	74	.005	16.7	12.4	16.6	14.1	5716	351	208	12.9	121	.594	.0365	40.5	
1990	72	.006	16.7	12.4	16.6	14.1	5720	351	208	12.9	121	.595	.0365	40.4	
1991	54	.004	16.2	12.1	15.7	13.6	5570	328	197	13.3	119	.603	.0353	38.1	
1992	75	.006	15.7	11.6	15.2	13.1	5578	331	204	12.9	121	.629	.0365	36.7	
1993	129	.010	16.3	12.1	15.7	13.6	5652	345	210	12.6	122	.612	.0373	38.6	
1994	169	.012	16.4	12.2	15.5	13.6	5628	343	210	12.6	122	.616	.0374	38.4	
1995	230	.015	16.6	12.2	15.7	13.8	5576	347	206	12.7	122	.594	.0370	38.4	
1996	241	.018	17.3	12.6	16.5	14.3	5534	344	247	10.9	133	.719	.0447	39.6	
1997	560	.039	17.5	12.6	16.8	14.5	5348	328	234	11.1	131	.714	.0438	38.7	
1998	642	.044	17.4	12.4	16.7	14.3	5243	313	227	11.2	130	.736	.0434	37.6	
1999	754	.050	17.2	12.2	16.6	14.2	5290	323	239	10.8	133	.743	.0455	37.6	
2000	879	.053	17.6	12.5	16.7	14.4	5395	312	246	10.7	134	.797	.0458	39.0	
2001	1115	.071	18.5	13.2	17.1	15.1	5158	283	244	10.4	135	.882	.0475	38.9	
2002	2034	.126	19.1	13.3	18.0	15.6	5050	277	253	10.0	139	.918	.0503	39.3	
2003	1760	.112	18.8	13.0	17.6	15.3	5347	288	266	10.0	140	.939	.0501	40.7	
2004	1955	.124	18.9	13.0	17.7	15.3	5352	289	274	9.8	142	.965	.0515	41.0	
2005	1790	.113	19.9	13.6	18.6	16.1	5152	272	269	9.7	142	1.001	.0522	41.4	
2006	1508	.100	20.4	13.9	19.1	16.4	5053	259	263	9.7	141	1.028	.0521	41.5	
2007	1970	.129	20.9	14.2	19.8	16.9	5168	270	280	9.4	145	1.052	.0542	43.7	
2008	2020	.123	21.2	14.3	20.2	17.2	5139	263	283	9.3	146	1.091	.0551	44.2	

Percent of Large SUV:

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		13.5		13.4											
1976		22.8		14.6											
1977		18.4		13.9											
1978		26.9		19.3											
1979		16.1		15.3					.7						
1980		30.0		17.8	78.6				5.9						
1981		25.4		3.1	96.9										
1982		28.7		1.1	98.9					53.2					
1983		30.5		.9	99.1					35.0					
1984		30.2		1.0	99.0					19.3					
1985		31.3		.9	99.1					11.5					
1986		32.8		.6	99.4					8.3					
1987		36.2		.6	99.4			95.6		4.4					
1988		41.0		.5	99.5			96.9		3.1					
1989		43.4		.5	99.5			97.6		2.4					
1990		42.8		.3	99.7			97.8		2.2					
1991		54.1			100.0		21.2	76.3		2.5					
1992		67.5		.6	99.4		11.2	88.8							
1993		64.6		.5	99.5		6.8	93.2							
1994		67.0		.4	99.6		10.3	89.7			90.5		9.5		
1995		71.9		.2	99.8		4.1	95.9			96.1		3.9		
1996		75.7			100.0		99.9		.1	92.3			7.7		
1997		73.4			100.0		100.0		.0	95.6			4.4		
1998		68.4			100.0		100.0		.0	91.4	6.2		2.4		
1999		53.1			100.0		100.0			90.1	2.2		7.7		
2000		62.9			100.0		100.0			92.0	4.1		4.0		.6
2001	3.2	63.1		.5	99.5		100.0			73.8	3.6	22.6		11.1	
2002	1.9	64.5		.1	99.9		100.0			69.3	2.1	28.6		23.0	
2003	1.4	61.3		.1	96.8	3.1	100.0			57.1	2.0	40.9		31.5	
2004	2.8	62.4		.0	100.0		100.0		.0	51.5	1.0	46.6	.9	38.5	
2005	8.7	63.4		.0	95.9	4.0	100.0			46.0	7.7	45.9	.4	48.3	
2006	12.1	64.4		.2	94.6	5.2	100.0		.0	23.1	11.1	65.5	.2	64.0	
2007	15.4	59.0		.2	95.1	4.7		99.8	.2	49.9	5.1	45.0		42.4	
2008	20.2	58.1		.3	99.3	.4	2.1	97.5	.4	39.1	3.1	57.8		52.9	.4

Table E-13

Characteristics of 1975 to 2008 Small Pickup

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	160	.016	22.5	17.3	22.2	19.2	2756	118	96	13.3	108	.814	.0347	26.6	
1976	173	.014	23.8	18.3	23.4	20.3	2775	119	98	13.2	109	.828	.0353	28.3	
1977	238	.017	25.5	19.9	24.5	21.7	2768	120	97	13.2	109	.807	.0349	30.2	
1978	264	.018	25.6	20.4	23.6	21.7	2799	119	92	13.8	107	.774	.0331	30.5	
1979	358	.026	22.8	17.9	21.6	19.4	2793	120	86	14.5	104	.715	.0308	27.5	
1980	452	.040	24.3	19.4	22.5	20.7	2790	122	88	14.2	105	.724	.0317	29.3	
1981	369	.035	28.2	22.5	26.0	23.9	2819	130	85	15.0	103	.655	.0302	34.4	
1982	346	.036	27.3	21.9	25.1	23.2	2899	137	89	14.8	104	.651	.0309	34.4	
1983	312	.030	26.9	21.6	24.8	22.9	2976	142	96	14.0	106	.679	.0324	34.5	
1984	423	.030	26.1	20.9	24.0	22.2	3035	142	97	14.1	106	.684	.0321	34.1	
1985	497	.034	26.7	21.4	24.5	22.7	3098	143	103	13.6	108	.718	.0334	35.4	
1986	743	.048	25.9	20.5	24.0	21.9	3141	145	105	13.5	109	.726	.0338	34.7	
1987	441	.030	26.0	20.3	24.1	21.9	3135	147	107	13.3	110	.732	.0345	34.5	
1988	340	.022	25.0	19.6	22.8	21.0	3200	148	113	13.0	111	.758	.0354	33.7	
1989	354	.025	23.9	18.6	21.8	20.0	3328	153	119	12.9	112	.774	.0360	33.5	
1990	289	.023	24.8	19.2	22.6	20.7	3293	153	129	12.0	116	.844	.0396	34.3	
1991	309	.025	25.0	19.2	22.8	20.8	3324	152	128	12.1	116	.845	.0389	34.7	
1992	252	.021	24.6	18.7	22.4	20.4	3321	152	126	12.3	115	.828	.0383	34.1	
1993	263	.020	26.3	19.8	23.8	21.6	3232	147	123	12.3	115	.835	.0383	35.2	
1994	358	.025	24.9	18.7	22.6	20.5	3355	151	125	12.4	114	.829	.0377	34.5	
1995	298	.020	24.4	18.3	22.0	20.0	3385	157	138	11.6	119	.879	.0411	33.9	
1996	221	.017	24.6	18.3	22.0	20.1	3362	159	147	11.0	122	.926	.0439	33.7	
1997	131	.009	24.9	18.5	22.1	20.2	3349	146	134	11.7	118	.918	.0405	33.8	
1998	260	.018	24.5	18.0	21.8	19.8	3462	160	151	11.0	123	.947	.0439	34.4	
1999	213	.014	23.2	17.0	20.5	18.7	3600	173	160	10.9	124	.928	.0445	33.7	
2000	101	.006	26.3	19.1	23.0	21.0	3307	148	143	11.1	121	.966	.0435	34.8	
2001	81	.005	26.5	19.2	22.9	21.1	3357	147	142	11.3	121	.967	.0427	35.4	
2002	197	.012	23.2	16.8	20.0	18.5	3735	177	164	11.0	124	.934	.0440	34.6	
2003	194	.012	23.2	16.6	20.4	18.5	3769	178	167	11.0	125	.945	.0443	35.0	
2004	161	.010	22.6	16.0	19.7	17.9	3796	184	171	10.8	126	.933	.0452	34.1	
2005	8	.001	25.8	17.6	23.5	20.5	4000	150	184	10.7	128	1.229	.0461	41.3	
2006	7	.000	26.9	18.3	24.3	21.3	3921	150	178	10.8	127	1.187	.0455	42.0	

Percent of Small Pickup:

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			88.4														
1976			80.1														
1977			79.6														
1978		8.8	88.5														
1979		26.3	90.3														
1980	5.8	24.5	91.2					3.3	2.5								
1981	9.1	31.6	94.8	.1				2.5	22.0								
1982	9.3	30.7	92.3	.3				1.0	19.7								
1983	9.8	30.9	90.4	1.6				.4	6.0								
1984	2.9	32.5	88.7	3.2				4.6	4.6								
1985		31.7	85.0	6.9				13.8	1.9								
1986		29.9	85.1	7.9				10.5	28.1	1.0							
1987		29.6	81.3	9.9				9.0	39.2								
1988		38.4	83.2	8.5				40.4	31.4								
1989		38.0	79.9	14.1				51.1	34.9								
1990		31.5	81.5	14.3				88.4									
1991		34.7	79.6	14.9				100.0									
1992		36.8	80.8	13.3				100.0									
1993		27.1	81.8	12.2				100.0									
1994		39.5	81.4	11.5				100.0			87.3	12.7					
1995		37.8	73.2	20.0				100.0			69.9		30.1				
1996		36.6	69.2	18.7				100.0				40.2	59.8				
1997		20.8	79.6	20.4				100.0				100.0					
1998		39.7	62.9	22.9				100.0					100.0				
1999		45.3	46.4	42.4				100.0			7.9		92.1				
2000		.7	48.5	30.9				100.0					100.0				
2001			49.2	24.6				100.0					100.0				
2002		32.9	30.5	58.9				100.0					100.0				
2003		39.3	28.7	59.9				100.0					100.0				
2004		40.5	24.7	60.7				100.0					100.0				
2005		100.0	20.6	79.4				100.0					100.0				
2006		100.0	21.4	78.6				100.0					100.0				

Table E-14

Characteristics of 1975 to 2008 Mid-size Pickup

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	56	.005	21.1	16.8	19.6	17.9	3000	109	67	18.6	95	.615	.0223	26.9	
1976	54	.004	22.9	18.1	21.6	19.5	3000	109	65	18.9	94	.596	.0217	29.7	
1977	69	.005	29.6	23.3	28.1	25.2	3000	124	72	17.5	96	.581	.0240	38.0	
1978	75	.005	29.3	23.4	27.1	24.9	3000	124	72	17.6	96	.581	.0239	37.7	
1979	101	.007	25.9	20.6	24.1	22.0	2971	131	80	16.2	100	.609	.0270	33.3	
1980	98	.009	25.9	20.5	24.1	22.0	2944	133	82	15.7	101	.621	.0282	32.9	
1981	130	.012	26.4	20.8	24.8	22.5	2909	131	84	15.2	102	.641	.0290	33.2	
1982	315	.032	26.7	20.8	25.7	22.7	2936	152	98	13.8	108	.648	.0333	33.6	
1983	621	.060	26.5	20.7	25.4	22.6	3016	146	91	14.8	104	.626	.0303	34.3	
1984	703	.050	25.7	19.9	24.8	21.9	3093	148	92	14.9	104	.626	.0299	34.1	
1985	616	.043	25.7	19.9	25.1	21.9	3064	154	97	14.2	106	.637	.0319	33.9	
1986	788	.051	26.1	20.2	24.9	22.1	3081	147	102	14.0	108	.687	.0329	34.3	
1987	1052	.071	25.4	19.5	24.3	21.5	3163	159	106	13.8	109	.672	.0334	34.2	
1988	1055	.069	25.3	19.3	24.1	21.3	3205	165	110	13.6	110	.670	.0343	34.4	
1989	887	.061	24.8	18.9	23.5	20.8	3278	177	116	13.2	111	.671	.0353	34.4	
1990	600	.048	24.7	18.7	23.3	20.6	3338	175	120	13.0	112	.697	.0358	34.7	
1991	873	.069	24.6	18.4	23.4	20.5	3352	190	125	12.7	114	.674	.0372	34.6	
1992	716	.059	23.8	17.6	22.8	19.8	3493	195	131	12.7	115	.685	.0373	34.9	
1993	743	.056	23.7	17.4	22.6	19.7	3521	198	135	12.5	116	.694	.0383	34.8	
1994	1040	.074	24.0	17.7	22.6	19.9	3618	197	145	12.1	118	.744	.0398	36.3	
1995	700	.046	24.7	18.0	23.3	20.4	3631	190	141	12.3	117	.768	.0387	37.5	
1996	698	.053	24.8	17.9	23.4	20.4	3668	187	140	12.4	117	.775	.0381	37.7	
1997	690	.048	24.2	17.4	22.7	19.8	3728	195	147	12.3	118	.769	.0390	37.4	
1998	829	.057	23.9	17.1	22.4	19.5	3713	191	146	12.2	118	.780	.0390	36.8	
1999	761	.050	22.5	16.0	21.0	18.3	3761	200	149	12.1	118	.762	.0393	34.9	
2000	766	.046	22.8	16.2	21.2	18.6	3740	192	148	12.2	119	.788	.0395	35.0	
2001	545	.035	21.8	15.4	20.2	17.7	3835	207	165	11.5	123	.804	.0427	34.1	
2002	466	.029	21.1	14.8	19.4	17.0	4019	226	180	11.0	127	.808	.0447	34.5	
2003	527	.033	22.8	15.9	21.0	18.4	3850	196	157	11.9	121	.818	.0407	35.6	
2004	378	.024	21.8	15.1	20.0	17.5	4070	219	192	10.6	130	.884	.0470	35.8	
2005	216	.014	23.6	16.2	21.5	18.8	3789	192	178	10.6	128	.934	.0469	35.9	
2006	274	.018	24.1	16.5	21.8	19.2	3820	197	188	10.3	131	.959	.0491	36.8	
2007	261	.017	23.4	16.2	21.1	18.7	3930	203	194	10.2	132	.958	.0491	36.9	
2008	255	.016	24.0	16.5	21.5	19.0	3876	198	187	10.4	130	.952	.0482	37.2	

Percent of Mid-size Pickup:

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			68.8												
1976			85.5												
1977			91.8												
1978			86.9												
1979			80.2												
1980			83.7												
1981			88.1												
1982		4.1	68.7	28.8						2.1					
1983		17.3	72.6	14.2						3.5					
1984		19.6	71.1	16.8						2.0					
1985		19.8	65.1	32.7			13.2	14.2		.7					
1986		16.8	73.0	23.7			30.7	26.7		.2					
1987		20.5	67.2	28.9			24.4	26.5		.3					
1988		19.8	65.0	32.6			32.7	39.2							
1989		18.7	62.9	35.6			33.8	46.7							
1990		16.7	61.6	38.4			59.3	27.9							
1991		14.8	63.5	36.5			36.6	56.4							
1992		15.5	59.9	40.1			59.0	32.7							
1993		18.0	59.4	40.6			65.5	28.9							
1994		16.9	55.3	44.7			86.1	11.9			100.0				
1995		15.6	59.8	40.2			82.8	17.2			100.0				
1996		14.3	52.9	47.1			100.0				99.9		.1		
1997		17.4	48.9	51.1			100.0				100.0				
1998		19.9	44.1	55.9			100.0				100.0				
1999		28.2	32.7	67.3			100.0				100.0				
2000		28.8	27.5	72.5			100.0				99.4		.6		
2001		30.5	21.8	78.2			100.0				95.2		4.8		
2002		41.8	15.8	84.2			100.0				88.5		11.5		
2003		28.5	21.3	78.7			100.0				90.5		9.5		
2004		42.1	17.1	82.9			100.0				73.5		26.5		17.7
2005		29.3	22.7	77.3			100.0				39.4		60.6		49.4
2006		14.8	19.7	80.3			100.0				22.6		77.4		67.9
2007		29.2	16.5	83.5			100.0				24.3		75.7		44.7
2008		28.2	26.4	73.6			100.0				30.2		69.8		52.6

Table E-15

Characteristics of 1975 to 2008 Large Pickup

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	1126	.110	13.1	10.4	12.2	11.1	4241	343	151	13.3	115	.438	.0358	24.1	
1976	1639	.133	13.9	11.2	12.7	11.8	4301	344	146	13.8	113	.423	.0341	25.9	
1977	1719	.122	14.9	12.1	13.4	12.7	4318	347	156	13.1	116	.449	.0363	27.8	
1978	1928	.133	14.7	12.0	13.1	12.4	4326	339	154	13.2	116	.454	.0357	27.4	
1979	1748	.126	14.3	11.8	12.6	12.1	4486	330	149	14.1	113	.452	.0334	27.8	
1980	887	.078	17.2	13.7	15.8	14.6	4312	305	137	14.3	110	.452	.0318	32.0	
1981	940	.089	18.6	14.8	17.3	15.9	4124	293	132	14.2	110	.452	.0320	33.0	
1982	780	.080	18.6	14.8	17.3	15.9	4233	299	136	14.2	111	.457	.0323	34.1	
1983	695	.067	18.1	14.3	16.9	15.4	4270	302	138	14.2	111	.461	.0325	33.5	
1984	917	.065	17.8	14.0	16.7	15.1	4291	301	138	14.3	111	.459	.0323	32.9	
1985	964	.067	17.7	14.0	16.5	15.0	4292	305	149	13.4	114	.490	.0348	32.7	
1986	1001	.065	18.2	14.4	17.0	15.5	4283	298	146	13.6	113	.495	.0341	33.3	
1987	654	.044	17.7	13.9	16.5	15.0	4375	309	162	12.8	118	.523	.0370	32.9	
1988	1064	.070	18.0	13.9	17.2	15.2	4436	318	173	12.2	121	.542	.0390	33.9	
1989	990	.068	18.1	13.8	17.2	15.2	4444	318	175	12.2	121	.548	.0395	34.0	
1990	945	.075	18.0	13.6	17.4	15.2	4497	320	178	12.1	122	.555	.0398	34.3	
1991	738	.059	18.2	13.6	17.6	15.3	4476	315	178	12.1	122	.562	.0397	34.4	
1992	872	.072	18.3	13.6	17.8	15.3	4562	312	174	12.5	120	.556	.0382	35.1	
1993	996	.075	18.7	13.7	18.0	15.6	4552	303	180	12.1	122	.600	.0396	35.5	
1994	1271	.090	18.4	13.5	17.6	15.3	4612	316	189	11.7	124	.601	.0411	35.3	
1995	1273	.084	18.0	13.1	17.2	14.9	4672	316	188	11.9	123	.598	.0403	35.0	
1996	1036	.079	18.2	13.2	17.4	15.1	4718	315	210	11.1	129	.671	.0446	35.7	
1997	1587	.110	18.9	13.6	18.1	15.6	4801	303	222	10.6	132	.737	.0464	37.5	
1998	1326	.092	18.6	13.2	17.8	15.3	4799	308	225	10.5	133	.735	.0470	36.8	
1999	1571	.103	18.5	13.2	17.5	15.2	4958	313	238	10.3	135	.762	.0483	37.6	
2000	1746	.105	19.3	13.8	17.9	15.7	4663	289	230	10.2	136	.800	.0492	36.7	
2001	1893	.121	18.9	13.4	17.5	15.4	4809	292	233	10.3	135	.807	.0485	37.0	
2002	1717	.107	18.7	13.2	17.2	15.2	4982	294	246	10.1	137	.836	.0493	37.8	
2003	1753	.111	18.9	13.3	17.3	15.3	4977	294	249	10.1	138	.845	.0499	38.0	
2004	1967	.125	19.0	13.3	17.3	15.3	5200	301	266	9.9	141	.881	.0511	39.7	
2005	2076	.131	19.4	13.4	17.8	15.6	5117	294	268	9.7	142	.914	.0526	39.8	
2006	1906	.126	19.6	13.6	18.0	15.8	5137	290	265	9.8	141	.919	.0517	40.4	
2007	1845	.121	19.8	13.6	18.3	15.9	5274	298	279	9.7	143	.935	.0527	42.0	
2008	1860	.113	19.8	13.6	18.4	16.0	5403	304	296	9.5	147	.969	.0545	43.1	

Percent of Large Pickup:

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		16.1	33.0												
1976		23.8	32.9												
1977		25.2	27.7												
1978		30.5	28.5						1.4						
1979		10.5	27.3	1.7					3.1						
1980		21.6	39.5	35.5					5.5						
1981		13.4	38.9	42.1					2.3						
1982		17.3	30.9	42.8					9.4						
1983		22.3	26.4	52.2					4.5						
1984		25.1	26.7	50.9					2.4						
1985		25.8	25.7	48.1			9.1	.7	1.2						
1986		28.3	27.0	52.5			21.7	2.6	.7						
1987	.0	30.8	29.1	41.6			43.1	36.0	.4						
1988	.0	33.8	26.8	54.5			36.5	62.6	.5						
1989		34.8	33.2	56.6			38.8	60.8	.4						
1990		33.9	24.9	68.0			37.0	62.6	.4						
1991		32.5	27.3	71.3			39.5	60.1	.4						
1992		32.1	26.8	73.1			45.0	54.7	.3						
1993	.0	35.0	22.4	77.6			47.9	52.1							
1994		36.6	16.0	84.0			47.3	52.7		98.9	.9	.1			
1995		41.5	20.7	79.3			55.1	44.9		97.2		2.8			
1996		37.9	15.0	85.0			99.7		.3	96.3		3.7			
1997		43.3	10.5	89.5			99.9		.1	98.1		1.9			
1998		43.2	9.8	90.2			99.9		.1	99.2		.8			
1999		53.6	6.3	93.7			100.0		.0	100.0					
2000		44.8	10.0	90.0			100.0			87.0		13.0			
2001		42.7	7.6	92.4			100.0			88.7		11.3			
2002		43.6	5.4	94.6			100.0			89.9		10.1			
2003		42.8	5.0	95.0			100.0			93.5		6.5			
2004		47.6	3.5	96.5			100.0			72.0	18.2	9.8		20.6	.0
2005		48.3	3.9	96.1			100.0			61.4	15.5	23.0		38.2	.1
2006		50.1	4.2	95.8			100.0			55.2	17.1	27.7		44.8	.1
2007		47.4	2.9	97.1			100.0			66.0	13.3	20.7		38.3	.0
2008		51.5	2.5	97.5			100.0			63.2	15.0	21.8		38.3	