

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

Appendix D: Data Stratified by Vehicle Type

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 an exchange of
technical information and to inform the public of technical developments.*

Table D-1

Characteristics of 1975 to 2008 Cars

YEAR	SALES (000)	FRAC	FUEL ECONOMY				WGHT LB	VOL CU-FT	ENGINE		0-60 TIME	TOP SPEED	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	7274	.711	15.8	12.3	15.1	13.4	4071		293	137	14.1	112	.506	.0333	32.4		
1976	8685	.704	17.5	13.7	16.6	14.9	4044		288	134	14.4	111	.500	.0326	35.4		
1977	10027	.710	18.4	14.4	17.4	15.6	3936	106.9	281	134	13.9	112	.516	.0337	36.4	2031	3894
1978	10018	.693	20.0	15.6	19.2	17.0	3572	106.0	252	124	13.6	111	.537	.0344	35.9	2193	3816
1979	9727	.701	20.3	16.0	19.3	17.3	3468	105.9	239	120	13.7	111	.546	.0341	35.4	2210	3770
1980	8774	.776	23.5	18.3	22.6	20.0	3092	102.4	188	101	14.2	107	.584	.0324	36.5	2462	3756
1981	7935	.752	25.1	19.5	24.2	21.4	3079	104.5	184	99	14.3	106	.589	.0321	38.9	2689	4081
1982	7007	.720	26.1	20.1	25.6	22.3	3039	103.4	175	99	14.3	107	.610	.0322	40.1	2779	4161
1983	7066	.686	25.7	19.8	25.4	22.0	3121	106.7	185	105	13.9	108	.613	.0334	40.5	2835	4331
1984	9672	.690	26.3	20.2	26.0	22.4	3091	105.1	180	106	13.7	109	.636	.0341	41.0	2843	4309
1985	9807	.678	26.9	20.6	26.7	23.0	3091	106.0	179	112	13.2	111	.670	.0358	41.9	2928	4448
1986	10136	.660	28.0	21.3	27.7	23.8	3026	105.0	168	111	13.1	111	.702	.0363	42.6	3006	4479
1987	9923	.668	28.2	21.3	27.8	23.9	3013	104.4	162	113	13.0	112	.732	.0367	42.7	3001	4460
1988	10122	.662	28.6	21.5	28.3	24.2	3035	105.4	160	116	12.7	113	.759	.0376	43.7	3083	4615
1989	9558	.661	28.2	20.9	27.9	23.8	3088	106.4	162	121	12.4	115	.784	.0388	43.7	3052	4659
1990	8434	.669	27.8	20.5	27.5	23.4	3167	105.8	163	129	12.1	117	.830	.0402	44.2	2987	4687
1991	8158	.649	28.0	20.5	27.6	23.4	3147	105.6	163	133	11.8	118	.852	.0415	44.2	3007	4680
1992	7800	.641	27.6	20.0	27.5	23.1	3234	107.3	170	141	11.5	121	.868	.0429	44.8	3011	4819
1993	7971	.603	28.1	20.2	27.8	23.4	3210	107.1	167	140	11.5	120	.868	.0429	45.3	3059	4859
1994	8055	.570	28.0	20.0	27.7	23.2	3251	107.2	168	143	11.4	121	.885	.0434	45.7	3049	4900
1995	9011	.595	28.3	19.9	28.1	23.4	3266	107.8	168	154	10.8	125	.948	.0463	46.3	3098	4998
1996	7622	.580	28.3	19.8	28.0	23.3	3276	108.2	166	154	10.8	125	.958	.0465	46.5	3106	5036
1997	8037	.556	28.4	19.8	28.0	23.4	3274	108.0	164	157	10.7	126	.975	.0471	46.6	3104	5039
1998	7722	.534	28.5	19.7	28.0	23.4	3304	108.0	164	159	10.6	127	.991	.0476	47.3	3122	5115
1999	8120	.534	28.2	19.4	27.5	23.0	3361	108.4	166	164	10.5	128	1.007	.0482	47.5	3088	5157
2000	8826	.532	28.2	19.3	27.3	22.9	3366	108.9	166	168	10.3	129	1.030	.0493	47.6	3103	5188
2001	7961	.510	28.5	19.4	27.5	23.1	3366	108.3	165	169	10.3	130	1.039	.0495	48.3	3142	5240
2002	7860	.488	28.8	19.5	27.4	23.2	3379	108.6	166	173	10.1	131	1.063	.0507	48.9	3176	5316
2003	7442	.472	28.9	19.4	27.5	23.2	3421	108.4	168	178	10.0	132	1.081	.0514	49.8	3200	5417
2004	6982	.444	29.0	19.3	27.6	23.2	3444	108.8	170	182	9.8	133	1.095	.0522	50.4	3227	5496
2005	7305	.460	29.7	19.7	27.9	23.6	3444	109.6	167	181	9.8	133	1.104	.0519	51.8	3353	5703
2006	7179	.475	29.3	19.4	27.7	23.4	3526	109.5	174	195	9.5	137	1.137	.0543	52.5	3311	5770
2007	7389	.483	30.4	20.2	28.5	24.2	3502	109.1	167	190	9.6	135	1.145	.0533	54.4	3453	5957
2008	7732	.471	30.4	20.1	28.6	24.2	3540	108.9	170	197	9.4	137	1.167	.0547	55.0	3450	6014

Table D-1 (Continued)

Percent of Cars:

MODEL YEAR	DRIVETRAIN		TRANSMISSION			FUEL METERING				NUMBER OF VALVES				VVT HYBRID	VEHICLE SIZE			
	FRONT	4WD	MANUAL	LOCK	CVT	GDI	PORT	TBI	DSL	TWO	THREE	FOUR	FIVE		SMALL	MID	LARGE	
1975	6.5		19.2				5.5		.3						56.2	22.4	21.4	
1976	6.0		17.0				3.3		.3						58.0	22.6	19.3	
1977	6.8		16.6				4.3		.5						54.7	22.2	23.1	
1978	9.9		20.2	6.6			5.3		1.0						46.2	33.3	20.4	
1979	12.8		22.6	8.5			5.1		2.2						45.3	33.0	21.7	
1980	31.1	.6	31.7	15.5			6.5	.7	4.1						55.0	34.0	11.0	
1981	36.5	.4	29.8	33.9			6.3	2.9	5.9						51.4	36.6	12.1	
1982	46.1	.4	29.9	51.6			7.5	10.9	4.7						57.6	30.5	11.9	
1983	48.1	.5	25.9	58.7			10.1	19.7	2.1						52.6	32.1	15.3	
1984	52.8	.4	24.4	58.3			15.9	24.1	1.6						58.6	28.6	12.8	
1985	62.3	.1	22.7	58.7			22.4	33.0	.9						56.3	28.3	15.4	
1986	71.2	.3	25.1	58.0			37.3	28.9	.3	94.8	3.4	1.7			61.2	26.3	12.5	
1987	77.5	.3	25.5	58.9			42.0	30.6	.2	84.9	9.6	5.5			65.0	22.7	12.3	
1988	82.2	.4	24.7	66.0			54.0	29.4	.0	79.4	10.0	10.6			66.3	20.9	12.9	
1989	83.1	.6	21.4	69.1	.1		62.3	28.1	.0	75.1	12.1	12.8			59.4	27.1	13.5	
1990	85.3	.4	19.9	72.7	.0		77.5	21.2	.0	66.8	5.6	27.6	.6		59.3	27.8	13.0	
1991	83.8	.9	20.8	73.2	.0		77.9	22.0	.1	65.7	6.4	27.9	2.5		61.7	25.9	12.4	
1992	81.2	.7	17.5	76.2	.0		89.6	10.4	.1	64.7	4.6	30.7	4.7		56.9	27.2	15.9	
1993	85.3	.6	17.8	76.8	.0		91.4	8.6		62.3	3.2	34.5	5.0		56.9	29.2	13.8	
1994	84.4	.2	16.8	79.1			94.7	5.3	.0	58.0	1.9	40.0	8.2		58.6	25.5	15.9	
1995	82.2	.6	16.3	81.9			98.7	1.2	.1	47.2	1.1	51.7	.0	10.0	57.6	27.9	14.5	
1996	87.2	.6	14.8	83.5	.0		98.8	1.1	.1	42.7	1.0	56.3	.0	11.9	55.1	31.0	14.0	
1997	87.3	.6	13.4	85.9	.1		99.1	.8	.1	41.2	1.0	57.6	.1	11.6	55.3	29.8	14.9	
1998	88.2	.8	12.2	87.4	.1		99.7	.1	.2	39.0	1.5	58.7	.8	18.8	49.8	38.4	11.8	
1999	88.3	.9	10.8	88.6	.0		99.7	.1	.2	35.8	2.1	60.7	1.5	17.2	48.3	38.7	13.0	
2000	85.8	.9	11.2	87.7	.0		99.7	.1	.2	35.4	1.8	61.3	1.6	23.3	.1	48.3	32.8	18.9
2001	85.1	1.6	11.4	87.5	.2		99.7		.3	34.2	2.1	60.9	2.8	28.7	.0	51.1	31.2	17.8
2002	86.0	2.3	11.0	88.3	.5		99.6		.4	31.5	2.0	63.8	2.7	34.7	.3	48.4	35.7	15.9
2003	82.3	2.3	10.9	88.1	1.0		99.7		.3	28.0	2.4	66.7	2.9	41.1	.6	49.7	33.4	16.9
2004	82.0	3.2	10.1	88.1	1.5		99.7		.3	24.3	1.7	71.6	2.4	44.4	1.0	46.9	36.1	17.0
2005	81.6	3.5	9.2	87.8	2.9		99.6		.4	22.2	2.1	74.6	1.1	52.7	2.3	43.6	39.5	16.9
2006	76.7	3.9	9.5	87.7	2.7		99.3		.7	20.4	1.7	77.5	.3	62.4	1.7	44.5	33.6	21.9
2007	81.1	4.2	8.8	80.7	10.5		99.9		.1	16.0	1.0	83.0	.0	67.9	3.7	42.5	41.7	15.7
2008	78.3	5.5	9.7	78.4	11.9	3.2	96.7		.0	11.8	1.0	87.2	.0	65.8	4.1	41.1	37.6	21.3

Table D-2

Characteristics of 1975 to 2008 Wagons

YEAR	SALES (000)	FRAC	FUEL ECONOMY				WGHT LB	VOL CU-FT	ENGINE		0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT- TON-MPG
			<----	ADJ	ADJ	---->			CID	HP							
			LAB 55/45	CITY	HWY	COMP											
1975	963	.094	16.1	12.5	15.6	13.8	3957	256	129	14.3	110	.585	.0322	32.2			
1976	1037	.084	17.3	13.6	16.4	14.7	4182	276	132	14.7	109	.526	.0312	36.2			
1977	1273	.090	18.0	14.3	16.9	15.3	4005	138.1	266	127	14.6	109	.523	.0315	36.3	2559	5018
1978	1157	.080	19.2	15.1	18.3	16.4	3723	135.7	243	123	14.1	110	.548	.0327	35.8	2642	4875
1979	1067	.077	19.7	15.6	18.4	16.7	3637	135.6	234	117	14.5	108	.535	.0317	35.8	2694	4864
1980	669	.059	23.6	18.5	22.5	20.1	3231	128.4	189	96	15.2	104	.567	.0297	38.4	3098	4956
1981	798	.076	25.6	20.0	24.6	21.8	3040	126.2	165	94	14.6	105	.644	.0312	39.1	3287	4956
1982	812	.083	25.3	19.6	24.6	21.6	3188	129.4	178	98	14.8	105	.603	.0305	40.4	3334	5245
1983	936	.091	27.2	21.1	26.3	23.2	3047	123.9	161	94	14.8	104	.636	.0305	41.6	3420	5149
1984	1003	.072	26.4	20.4	25.9	22.6	3175	131.5	166	100	14.6	106	.645	.0311	42.1	3546	5543
1985	983	.068	27.5	21.2	26.9	23.4	3112	130.2	158	101	14.3	107	.677	.0320	42.7	3638	5580
1986	878	.057	27.1	20.7	26.6	23.0	3215	133.3	162	106	14.1	108	.690	.0327	43.4	3642	5813
1987	808	.054	27.2	20.6	26.7	23.0	3248	133.5	162	112	13.6	110	.730	.0342	44.1	3660	5911
1988	613	.040	27.6	20.7	27.0	23.3	3242	133.6	163	114	13.3	111	.745	.0352	44.6	3708	5987
1989	461	.032	26.9	20.0	26.5	22.6	3327	135.5	171	121	13.0	113	.758	.0363	44.6	3663	6068
1990	376	.030	26.7	19.7	26.4	22.4	3367	135.0	165	127	12.6	115	.815	.0376	45.0	3624	6080
1991	366	.029	28.0	20.5	27.6	23.4	3305	134.0	158	124	12.7	114	.823	.0372	46.3	3783	6218
1992	307	.025	27.5	19.9	27.4	23.0	3391	136.2	171	137	12.1	118	.867	.0403	46.7	3772	6371
1993	486	.037	29.6	21.3	29.1	24.6	3154	129.8	150	117	12.8	113	.811	.0368	46.8	3894	6087
1994	360	.026	29.4	20.9	29.1	24.4	3217	130.5	154	128	12.4	116	.848	.0390	47.5	3896	6196
1995	385	.025	29.6	21.0	29.0	24.4	3189	129.7	147	126	12.4	116	.873	.0390	47.3	3885	6132
1996	268	.020	27.7	19.6	27.0	22.8	3453	131.8	155	144	11.8	120	.945	.0414	47.9	3677	6323
1997	298	.021	28.9	20.4	27.9	23.7	3283	128.0	142	138	11.6	119	.972	.0419	47.5	3741	6086
1998	250	.017	28.3	19.8	27.0	23.1	3359	128.1	143	149	11.1	123	1.043	.0442	47.4	3650	6084
1999	259	.017	27.7	19.2	26.6	22.6	3460	130.8	148	156	10.9	124	1.062	.0449	47.9	3650	6280
2000	302	.018	27.7	19.2	26.2	22.4	3468	130.8	147	158	10.9	125	1.076	.0454	48.0	3649	6291
2001	447	.029	26.9	18.7	25.1	21.7	3631	127.0	150	162	11.0	125	1.084	.0446	49.0	3448	6233
2002	444	.028	26.7	18.4	24.9	21.5	3610	125.4	149	163	10.9	125	1.109	.0452	48.4	3378	6090
2003	509	.032	29.1	20.0	26.5	23.2	3425	121.3	135	155	10.9	124	1.160	.0453	50.4	3595	6117
2004	556	.035	27.8	19.0	25.4	22.1	3683	130.9	151	187	10.1	132	1.248	.0504	51.4	3687	6732
2005	722	.045	28.0	19.0	25.5	22.2	3652	129.7	158	189	9.9	133	1.220	.0511	51.4	3705	6678
2006	815	.054	28.4	19.2	25.8	22.5	3603	128.8	154	188	10.0	133	1.228	.0514	51.3	3701	6605
2007	640	.042	28.6	19.2	26.3	22.7	3598	123.7	156	186	10.0	133	1.213	.0508	51.7	3609	6409
2008	804	.049	29.6	20.0	26.9	23.4	3557	122.8	149	180	10.1	131	1.223	.0501	52.9	3704	6517

Table D-2 (Continued)

Percent of Wagons:

MODEL YEAR	DRIVETRAIN		TRANSMISSION			FUEL METERING				NUMBER OF VALVES				VVT HYBRID	VEHICLE SIZE		
	FRONT	4WD	MANUAL	LOCK	CVT	GDI	PORT	TBI	DSL	TWO	THREE	FOUR	FIVE		SMALL	MID	LARGE
1975	6.6		25.3				2.7		.1					49.5	30.0	20.4	
1976	4.1		17.5				2.6		.1					33.3	46.7	20.0	
1977	7.0		18.0				3.4		.3					30.2	43.0	26.8	
1978	7.2		19.9	7.5			3.4		.5					31.2	43.5	25.3	
1979	3.8	3.5	19.6	4.1			1.4		1.1					29.0	45.2	25.8	
1980	11.3	4.6	35.1	30.2			2.2		9.3					46.4	38.4	15.2	
1981	42.4	4.2	36.8	27.5			4.4	.0	6.5					52.4	34.1	13.5	
1982	42.0	4.2	28.0	49.0			4.3	.3	4.7					47.0	35.0	18.0	
1983	41.1	22.3	30.7	42.1			4.4	13.0	1.5					56.7	29.5	13.9	
1984	62.9	7.2	22.1	58.4			6.1	26.7	2.0					46.0	36.4	17.6	
1985	54.4	21.5	23.6	58.6			12.1	22.7	1.0					50.5	34.7	14.8	
1986	69.4	9.2	21.4	58.3			29.8	22.7	.4	100.0				39.7	46.6	13.7	
1987	71.5	10.5	17.3	66.4			48.2	29.2	.3	90.5	2.2	7.3		44.7	44.4	10.9	
1988	73.8	8.5	17.4	67.1			48.9	39.8		91.9	.3	7.8		41.3	46.4	12.3	
1989	71.2	7.7	12.9	73.3			64.1	23.2		85.6	1.1	13.3		34.5	51.9	13.6	
1990	68.9	13.7	13.9	76.5			76.4	18.0		70.8		29.2		42.6	49.1	8.3	
1991	71.8	12.4	14.7	80.4			80.8	19.2		71.1		28.9		57.1	33.5	9.4	
1992	70.2	12.2	15.2	80.2			89.0	11.0		74.3		25.7	.7	46.6	44.7	8.7	
1993	81.3	10.3	18.6	78.7			93.5	6.5		79.6		20.4	.3	62.1	34.1	3.8	
1994	84.9	6.2	15.7	81.7			98.7	1.3		80.4		19.6	4.4	57.3	38.4	4.4	
1995	77.5	15.1	16.9	81.7			100.0			63.5		36.5	5.1	51.5	45.8	2.7	
1996	66.7	28.3	15.1	84.9			99.5		.5	42.9		57.1	5.8	33.5	63.0	3.5	
1997	65.7	32.9	16.5	83.5			100.0		.0	45.9		54.1	3.9	50.0	50.0	.0	
1998	50.7	46.3	15.7	84.3			100.0			27.7	1.9	68.1	2.3	39.0	61.0	.0	
1999	52.9	43.3	14.5	84.8			100.0			22.9	2.3	66.5	8.4	30.0	70.0	.0	
2000	58.2	37.6	11.1	87.4			100.0			20.1	1.8	69.1	9.0	22.4	77.6	.0	
2001	66.2	32.2	11.6	88.1			100.0			7.3	1.3	84.0	7.5	47.3	52.7	.0	
2002	66.5	31.5	14.6	85.1			99.5		.5	5.9	1.8	86.1	6.3	53.2	46.8	.0	
2003	73.0	25.5	14.0	85.9			98.7		1.3	4.9	.9	86.8	7.4	66.4	33.6	.0	
2004	65.8	33.3	10.5	89.5			99.2		.8	2.8	1.5	90.6	5.1	54.0	28.4	17.7	
2005	61.4	28.2	10.1	89.9			99.0		1.0	17.8	.6	79.8	1.8	50.6	33.0	16.4	
2006	67.5	22.5	8.5	91.5			100.0			7.9	2.6	89.5	.0	60.5	27.0	12.5	
2007	72.6	21.9	8.1	91.9			99.9		.1	9.3	1.4	89.3	.0	61.4	27.1	11.6	
2008	74.4	21.8	16.9	83.1			3.8	96.2	.1	1.3		98.6	.0	69.2	21.6	9.3	

Table D-3

Characteristics of 1975 to 2008 Cars and Wagons

YEAR	SALES (000)	FRAC	FUEL ECONOMY				WGHT LB	VOL CU-FT	ENGINE		0-60 TIME	TOP SPEED	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	8237	.806	15.8	12.3	15.2	13.5	4058		288	136	14.2	111	.515	.0331	32.3		
1976	9722	.788	17.5	13.7	16.6	14.9	4059		287	134	14.4	110	.502	.0324	35.5		
1977	11300	.800	18.3	14.4	17.4	15.6	3944	110.4	279	133	14.0	111	.516	.0335	36.4	2091	4021
1978	11175	.773	19.9	15.5	19.1	16.9	3588	109.0	251	124	13.7	111	.538	.0342	35.9	2240	3926
1979	10794	.778	20.3	15.9	19.2	17.2	3485	108.9	238	119	13.8	110	.545	.0338	35.4	2258	3878
1980	9443	.835	23.5	18.3	22.6	20.0	3101	104.2	188	100	14.3	107	.583	.0322	36.6	2507	3841
1981	8733	.827	25.1	19.6	24.2	21.4	3076	106.5	182	99	14.4	106	.594	.0320	38.9	2744	4161
1982	7819	.803	26.0	20.1	25.5	22.2	3054	106.1	175	99	14.4	106	.609	.0320	40.1	2836	4273
1983	8002	.777	25.9	19.9	25.5	22.1	3112	108.7	182	104	14.0	108	.615	.0330	40.7	2904	4426
1984	10675	.761	26.3	20.2	26.0	22.4	3099	107.5	179	106	13.8	109	.637	.0339	41.1	2910	4425
1985	10791	.746	27.0	20.7	26.8	23.0	3093	108.2	177	111	13.3	111	.671	.0355	42.0	2992	4551
1986	11015	.717	27.9	21.2	27.6	23.7	3041	107.3	167	111	13.2	111	.701	.0360	42.6	3057	4585
1987	10731	.722	28.1	21.2	27.7	23.8	3031	106.6	162	112	13.0	112	.732	.0365	42.8	3051	4569
1988	10736	.702	28.6	21.4	28.2	24.1	3047	107.0	160	116	12.8	113	.759	.0375	43.7	3119	4693
1989	10018	.693	28.1	20.9	27.9	23.7	3099	107.7	163	121	12.5	115	.783	.0387	43.8	3080	4723
1990	8810	.698	27.8	20.5	27.5	23.3	3176	107.1	163	129	12.1	117	.829	.0401	44.2	3014	4746
1991	8524	.678	28.0	20.5	27.6	23.4	3154	106.8	163	132	11.8	118	.851	.0413	44.3	3040	4746
1992	8108	.666	27.6	20.0	27.5	23.1	3240	108.4	170	141	11.5	120	.868	.0428	44.9	3040	4877
1993	8456	.640	28.2	20.3	27.9	23.5	3207	108.4	166	138	11.6	120	.865	.0425	45.4	3107	4929
1994	8415	.596	28.0	20.0	27.7	23.3	3250	108.2	168	143	11.4	121	.884	.0432	45.7	3086	4955
1995	9396	.620	28.3	20.0	28.1	23.4	3263	108.7	167	152	10.9	125	.945	.0460	46.4	3130	5045
1996	7890	.600	28.3	19.8	28.0	23.3	3282	109.0	165	154	10.8	125	.958	.0464	46.5	3125	5080
1997	8335	.576	28.4	19.8	28.0	23.4	3274	108.7	164	156	10.7	126	.974	.0469	46.7	3127	5076
1998	7972	.551	28.5	19.7	28.0	23.4	3306	108.6	164	159	10.6	127	.993	.0475	47.3	3138	5145
1999	8379	.551	28.2	19.4	27.5	23.0	3365	109.1	166	164	10.5	128	1.009	.0481	47.5	3106	5191
2000	9128	.551	28.2	19.3	27.3	22.9	3369	109.6	165	168	10.4	129	1.032	.0492	47.6	3121	5224
2001	8408	.539	28.4	19.4	27.3	23.0	3380	109.3	165	168	10.3	129	1.042	.0492	48.4	3158	5292
2002	8304	.515	28.6	19.4	27.2	23.1	3391	109.5	166	173	10.2	131	1.066	.0504	48.9	3187	5358
2003	7951	.504	28.9	19.5	27.5	23.2	3421	109.2	166	176	10.0	132	1.086	.0510	49.9	3225	5462
2004	7538	.480	28.9	19.3	27.4	23.1	3462	110.4	168	182	9.8	133	1.106	.0521	50.5	3261	5587
2005	8027	.505	29.5	19.6	27.6	23.5	3463	111.4	166	182	9.8	133	1.115	.0518	51.8	3384	5790
2006	7993	.529	29.2	19.4	27.5	23.3	3534	111.5	172	194	9.6	136	1.146	.0540	52.4	3351	5855
2007	8029	.525	30.3	20.1	28.3	24.1	3510	110.2	167	190	9.7	135	1.150	.0531	54.2	3465	5993
2008	8537	.520	30.3	20.1	28.4	24.1	3541	110.2	168	196	9.5	137	1.173	.0543	54.8	3474	6062

Table D-3 (Continued)

Percent of Cars and Wagons:

MODEL YEAR	DRIVETRAIN		TRANSMISSION			FUEL METERING				NUMBER OF VALVES				VVT HYBRID	VEHICLE SIZE		
	FRONT	4WD	MANUAL	LOCK	CVT	GDI	PORT	TBI	DSL	TWO	THREE	FOUR	FIVE		SMALL	MID	LARGE
1975	6.5		19.9				5.1		.2					55.4	23.3	21.3	
1976	5.8		17.1				3.2		.3					55.4	25.2	19.4	
1977	6.8		16.8				4.2		.5					51.9	24.5	23.5	
1978	9.6		20.2	6.7			5.1		.9					44.7	34.4	21.0	
1979	11.9	.3	22.3	8.0			4.7		2.1					43.7	34.2	22.1	
1980	29.7	.9	31.9	16.5			6.2	.7	4.4					54.4	34.4	11.3	
1981	37.0	.7	30.4	33.3			6.1	2.6	5.9					51.5	36.4	12.2	
1982	45.6	.8	29.7	51.4			7.2	9.8	4.7					56.5	31.0	12.5	
1983	47.3	3.1	26.5	56.7			9.5	18.9	2.1					53.1	31.8	15.1	
1984	53.7	1.0	24.1	58.3			15.0	24.4	1.7					57.4	29.4	13.2	
1985	61.6	2.1	22.8	58.7			21.4	32.0	.9					55.7	28.9	15.4	
1986	71.1	1.1	24.8	58.0			36.7	28.4	.3	95.2	3.2	1.6		59.5	27.9	12.6	
1987	77.0	1.1	24.9	59.5			42.5	30.5	.3	85.3	9.1	5.6		63.5	24.3	12.2	
1988	81.7	.8	24.3	66.1			53.7	30.0	.0	80.1	9.5	10.4		64.8	22.3	12.8	
1989	82.5	1.0	21.0	69.3	.1		62.4	27.8	.0	75.6	11.6	12.8		58.3	28.2	13.5	
1990	84.6	1.0	19.6	72.9	.0		77.5	21.1	.0	67.0	5.4	27.6	.6	58.6	28.7	12.8	
1991	83.2	1.4	20.5	73.5	.0		78.0	21.8	.1	65.9	6.2	27.9	2.4	61.5	26.2	12.3	
1992	80.8	1.1	17.4	76.4	.0		89.5	10.4	.1	65.0	4.4	30.5	4.6	56.5	27.8	15.6	
1993	85.1	1.2	17.8	77.0	.0		91.6	8.4		63.3	3.0	33.7	4.8	57.2	29.5	13.3	
1994	84.4	.4	16.7	79.3			94.9	5.1	.0	59.0	1.8	39.2	8.0	58.5	26.1	15.4	
1995	82.0	1.2	16.3	81.9			98.8	1.2	.1	47.8	1.1	51.1	.0	57.3	28.6	14.0	
1996	86.5	1.5	14.8	83.6	.0		98.8	1.1	.1	42.7	.9	56.3	.0	54.3	32.0	13.6	
1997	86.5	1.7	13.5	85.8	.1		99.1	.8	.1	41.4	1.0	57.5	.1	55.1	30.6	14.3	
1998	87.0	2.3	12.3	87.3	.1		99.7	.1	.2	38.6	1.5	59.0	.9	49.4	39.1	11.4	
1999	87.2	2.2	10.9	88.4	.0		99.7	.1	.2	35.4	2.1	60.9	1.7	47.7	39.7	12.6	
2000	84.9	2.1	11.2	87.7	.0		99.7	.1	.2	34.9	1.8	61.5	1.8	47.5	34.3	18.2	
2001	84.1	3.2	11.4	87.5	.2		99.7		.3	32.8	2.1	62.1	3.1	50.9	32.3	16.8	
2002	84.9	3.8	11.2	88.1	.4		99.6		.4	30.1	2.0	65.0	2.9	48.6	36.3	15.1	
2003	81.7	3.8	11.1	87.9	.9		99.6		.4	26.5	2.3	68.0	3.2	50.8	33.4	15.9	
2004	80.8	5.4	10.2	88.2	1.4		99.7		.3	22.8	1.7	73.0	2.6	47.4	35.5	17.0	
2005	79.8	5.8	9.3	88.0	2.6		99.6		.4	21.8	2.0	75.0	1.2	44.2	38.9	16.8	
2006	75.8	5.8	9.4	88.1	2.4		99.4		.6	19.2	1.8	78.7	.3	46.2	32.9	20.9	
2007	80.4	5.6	8.7	81.6	9.7		99.9		.1	15.4	1.0	83.5	.0	44.0	40.6	15.4	
2008	77.9	7.1	10.3	78.9	10.8	3.3	96.7		.0	10.8	.9	88.3	.0	43.7	36.1	20.2	

Table D-4

Characteristics of 1975 to 2008 Vans

YEAR	SALES (000)	FRAC	<---- FUEL ECONOMY ---->				WGHT LB	ENGINE			0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG
			LAB 55/45	ADJ CITY	ADJ HWY	ADJ COMP		CID	HP						
1975	457	.045	13.1	10.6	11.9	11.1	4196	318	143	13.9	113	.448	.0341	28.1	
1976	502	.041	13.9	11.1	12.8	11.8	4200	324	146	13.7	114	.447	.0347	29.7	
1977	514	.036	14.7	11.9	13.3	12.5	4252	332	152	13.3	116	.458	.0359	31.7	
1978	625	.043	14.2	11.6	12.7	12.1	4250	329	149	13.4	115	.453	.0351	30.8	
1979	481	.035	13.5	11.1	12.1	11.5	4541	322	144	14.6	111	.451	.0317	31.3	
1980	242	.021	16.6	13.3	15.4	14.1	4353	288	131	15.2	108	.459	.0299	36.4	
1981	245	.023	17.5	14.0	16.0	14.8	4324	284	129	15.3	108	.458	.0298	38.0	
1982	311	.032	17.3	13.9	15.9	14.7	4342	287	132	15.2	109	.463	.0303	38.0	
1983	383	.037	17.7	14.1	16.5	15.1	4414	294	136	15.0	109	.466	.0307	39.7	
1984	676	.048	18.9	15.0	17.7	16.1	4075	249	126	14.9	108	.538	.0307	39.3	
1985	855	.059	19.5	15.5	18.1	16.5	3975	236	129	14.3	110	.578	.0322	39.3	
1986	1044	.068	20.6	16.1	19.4	17.5	3998	228	127	14.5	109	.588	.0317	41.5	
1987	1114	.075	20.9	16.2	19.8	17.7	3972	226	142	13.3	114	.657	.0356	41.7	
1988	1133	.074	21.2	16.2	20.3	17.9	4053	229	147	13.0	116	.671	.0363	43.2	
1989	1278	.088	21.1	16.1	20.2	17.8	4057	225	146	13.1	115	.680	.0360	43.2	
1990	1262	.100	21.2	16.0	20.4	17.8	4095	225	149	13.0	116	.682	.0363	43.8	
1991	1034	.082	21.4	16.0	20.5	17.9	4133	220	149	13.1	115	.701	.0359	44.5	
1992	1221	.100	21.5	15.9	20.5	17.9	4151	222	152	12.9	116	.705	.0366	44.8	
1993	1441	.109	21.9	16.0	21.0	18.2	4105	218	155	12.6	118	.730	.0378	45.0	
1994	1418	.100	21.5	15.7	20.5	17.8	4156	226	159	12.4	119	.721	.0383	44.9	
1995	1662	.110	21.8	15.8	21.0	18.1	4110	231	159	12.3	119	.708	.0387	45.0	
1996	1409	.107	22.2	15.9	21.4	18.3	4195	220	171	11.8	122	.790	.0408	46.8	
1997	1266	.088	22.1	15.7	21.2	18.2	4241	220	174	11.8	123	.802	.0410	46.9	
1998	1489	.103	22.7	16.0	22.0	18.7	4183	217	180	11.3	125	.840	.0431	47.7	
1999	1463	.096	22.3	15.6	21.5	18.3	4307	223	183	11.4	125	.832	.0424	48.1	
2000	1691	.102	22.8	15.9	21.8	18.6	4276	217	183	11.4	125	.857	.0428	48.9	
2001	1233	.079	22.1	15.3	21.1	18.0	4519	229	202	10.9	129	.897	.0447	50.3	
2002	1243	.077	23.0	15.9	21.9	18.7	4394	218	199	10.8	129	.929	.0455	50.9	
2003	1232	.078	23.5	16.0	22.2	19.0	4393	219	202	10.7	130	.929	.0459	51.7	
2004	953	.061	23.7	16.0	22.7	19.2	4487	219	214	10.4	133	.988	.0477	53.4	
2005	1481	.093	24.0	16.1	22.8	19.3	4430	216	209	10.5	132	.976	.0472	53.2	
2006	1166	.077	24.3	16.2	23.1	19.5	4475	216	211	10.5	132	.984	.0472	54.4	
2007	877	.057	24.3	16.2	23.2	19.6	4461	220	225	10.0	136	1.029	.0503	54.3	
2008	891	.054	24.5	16.4	23.4	19.7	4561	220	224	10.4	135	1.021	.0490	56.1	

Table D-4 (Continued)

Percent of Vans:

MODEL YEAR	DRIVETRAIN		TRANSMISSION		FUEL METERING				NUMBER OF VALVES				VVT HYBRID	VEHICLE SIZE		
	FRONT	4WD	MANUAL	LOCK	CVT	GDI	PORT	TBI	DSL	TWO	THREE	FOUR		FIVE	SMALL	MID
1975			23.3					.2						.4	66.1	33.6
1976			20.5					.3						.3	61.4	38.3
1977			14.3					.4						.4	61.0	38.6
1978			13.0					.4						.4	63.8	35.8
1979			14.8	6.8				1.8						1.8	65.1	33.1
1980			26.0	39.0				6.5						6.5	53.8	39.7
1981	.3		21.9	46.6				4.6						4.6	56.3	39.2
1982			15.7	45.8				3.0	1.8					4.8	58.0	37.2
1983	.2		12.0	59.3				3.5	4.5					3.7	60.1	36.2
1984	22.3		15.5	45.6			6.6	3.1	1.2					12.2	62.1	25.7
1985	30.4	.3	10.0	47.4			6.3	2.9	.3					10.9	70.1	19.0
1986	24.4	1.3	8.5	60.1			21.8	16.3	.4					9.8	74.9	15.3
1987	27.5	1.9	6.6	67.6			45.8	30.2	.1					11.3	76.2	12.5
1988	36.3	.8	3.7	78.7			56.9	42.8	.1					4.9	83.0	12.1
1989	34.4	.7	2.9	76.5			58.1	41.8	.1					2.8	86.1	11.1
1990	46.8	6.6	1.5	93.5			58.1	41.9	.1					2.4	89.1	8.5
1991	38.2	10.9	1.3	96.5			63.3	36.6	.1					1.5	91.2	7.3
1992	45.4	5.5	1.6	96.4			71.9	28.1	.1					3.3	89.1	7.6
1993	49.8	4.5	1.2	97.2			79.0	21.0						.8	91.8	7.4
1994	52.3	6.4	.5	97.4			81.2	18.8						.8	91.4	7.9
1995	61.3	9.1	.1	98.2			87.4	12.6		95.5	1.0	3.6		.4	93.4	6.3
1996	73.8	2.3	.0	98.4			100.0			94.3	1.0	4.7		.1	92.1	7.8
1997	64.7	4.7		99.6			100.0			93.7	1.1	5.3		.0	89.0	11.0
1998	78.3	3.2		100.0			100.0			89.6		10.4		.0	91.1	8.9
1999	76.0	2.7		100.0			100.0			87.5		12.5	8.2	.0	88.3	11.7
2000	80.6	2.7		100.0			100.0			78.4		21.6	15.0	.0	90.0	10.0
2001	69.3	8.7		100.0			100.0			77.4		22.6	17.0	.0	76.1	23.9
2002	84.3	3.0		100.0			100.0			71.6		28.4	20.9	.0	91.0	9.0
2003	83.5	5.0		100.0			100.0			74.2		25.8	19.6	.0	91.0	9.0
2004	86.6	4.9		100.0			100.0			47.7		52.3	46.1	.0	93.7	6.3
2005	89.2	5.5		94.9	5.1		100.0			62.0		38.0	25.0	.0	96.3	3.7
2006	89.8	4.5		95.3	4.7		100.0			53.2		46.8	36.4	.0	94.0	6.0
2007	93.6	3.2		96.3	3.7		100.0			49.1		50.9	47.1	.0	96.4	3.6
2008	92.5	3.9		100.0			100.0			26.4		73.6	43.9	.0	96.7	3.3

Table D-5

Characteristics of 1975 to 2008 SUVs

YEAR	SALES (000)	FRAC	<---- FUEL ECONOMY ---->				WGHT LB	ENGINE			0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG
			LAB 55/45	ADJ CITY	ADJ HWY	ADJ COMP		CID	HP						
1975	187	.018	13.0	10.6	11.6	11.0	4202	328	146	13.3	115	.442	.0357	27.1	
1976	243	.020	13.8	11.1	12.5	11.7	4312	335	141	14.0	112	.417	.0331	29.6	
1977	283	.020	15.1	12.2	13.7	12.8	4232	332	144	13.6	113	.431	.0343	31.8	
1978	380	.026	14.4	11.6	13.2	12.3	4270	339	149	13.2	114	.437	.0351	30.6	
1979	401	.029	12.6	10.4	10.9	10.6	4509	331	143	14.4	111	.439	.0322	28.3	
1980	185	.016	15.5	12.5	14.1	13.2	4236	295	131	14.7	109	.453	.0307	32.9	
1981	136	.013	16.8	13.4	15.5	14.3	4208	290	132	14.4	109	.460	.0315	35.4	
1982	162	.017	17.6	14.0	16.4	15.0	4349	294	129	15.0	108	.453	.0303	39.2	
1983	289	.028	19.1	15.0	18.1	16.2	4137	254	124	15.0	108	.520	.0303	40.1	
1984	625	.045	19.3	15.1	18.3	16.4	3999	227	120	15.0	107	.560	.0301	39.1	
1985	736	.051	19.8	15.4	19.3	16.9	4018	216	122	15.0	107	.590	.0301	40.3	
1986	774	.050	20.2	15.7	19.2	17.2	3921	207	127	14.1	110	.657	.0325	39.9	
1987	873	.059	20.6	15.9	19.8	17.5	3840	209	137	13.3	114	.686	.0355	39.7	
1988	968	.063	20.4	15.7	19.5	17.2	3859	219	144	12.8	116	.686	.0373	39.5	
1989	926	.064	20.0	15.2	19.0	16.8	4018	242	155	12.4	119	.666	.0388	40.3	
1990	708	.056	19.8	15.0	18.9	16.6	4045	232	154	12.5	118	.696	.0384	40.0	
1991	1095	.087	20.3	15.3	19.4	17.0	4070	230	158	12.3	119	.703	.0389	41.4	
1992	1003	.082	19.9	14.8	18.9	16.6	4085	229	165	12.0	121	.737	.0408	40.6	
1993	1311	.099	19.9	14.7	18.9	16.5	4157	242	179	11.4	125	.754	.0434	41.3	
1994	1623	.115	19.7	14.6	18.6	16.4	4209	238	177	11.6	124	.763	.0423	41.6	
1995	1816	.120	19.6	14.4	18.4	16.2	4255	241	176	11.7	123	.755	.0417	41.7	
1996	1890	.144	20.0	14.5	19.0	16.5	4283	252	185	11.3	126	.753	.0434	42.9	
1997	2450	.169	20.1	14.6	18.8	16.5	4329	246	186	11.3	125	.781	.0430	43.5	
1998	2581	.179	20.1	14.4	18.9	16.5	4340	246	188	11.3	126	.789	.0433	43.7	
1999	2831	.186	20.1	14.4	18.8	16.4	4400	246	198	10.9	129	.838	.0450	44.3	
2000	3143	.190	20.1	14.3	18.6	16.3	4458	245	200	10.9	129	.843	.0448	44.7	
2001	3450	.221	20.8	14.8	19.1	16.9	4378	229	206	10.5	131	.929	.0471	45.6	
2002	4191	.260	20.6	14.4	19.1	16.7	4508	236	222	10.2	135	.960	.0491	46.4	
2003	4118	.261	20.8	14.5	19.3	16.8	4611	238	226	10.2	135	.974	.0491	48.0	
2004	4713	.300	20.9	14.4	19.4	16.9	4634	244	234	10.0	137	.982	.0506	48.5	
2005	4084	.257	21.6	14.8	19.9	17.3	4575	233	234	9.9	137	1.022	.0509	49.4	
2006	3757	.249	22.1	15.2	20.3	17.7	4547	226	230	9.9	137	1.033	.0504	50.7	
2007	4275	.280	22.7	15.5	20.9	18.2	4618	230	243	9.7	140	1.078	.0524	52.6	
2008	4865	.296	23.3	15.9	21.5	18.7	4567	222	242	9.6	140	1.108	.0527	53.4	

Table D-5 (Continued)

Percent of SUVs:

MODEL YEAR	DRIVETRAIN		TRANSMISSION		FUEL METERING				NUMBER OF VALVES				VVT HYBRID	VEHICLE SIZE		
	FRONT	4WD	MANUAL	LOCK	CVT	GDI	PORT	TBI	DSL	TWO	THREE	FOUR		FIVE	SMALL	MID
1975		84.1		41.4										28.6	65.7	5.7
1976		85.3		33.9										24.5	68.9	6.6
1977		82.5		35.9										25.4	68.5	6.1
1978		88.5		34.3										23.9	70.9	5.1
1979		69.3		33.3	.6				.2					26.1	46.7	27.2
1980		88.8		43.5	26.2				2.3					32.8	54.4	12.8
1981		90.4		40.9	41.1									31.3	58.3	10.4
1982		79.5		29.8	42.2				15.3					26.2	60.4	13.4
1983		80.7		32.1	51.2				6.7					19.1	70.4	10.6
1984		85.0		29.3	42.9				2.3					23.2	69.0	7.8
1985		80.4		27.9	60.1		3.8	1.5	1.5					15.7	76.5	7.8
1986		86.1		37.3	55.8		23.9	25.7	1.5					22.9	69.6	7.5
1987		83.9		36.8	54.7		33.0	41.8	.4					29.2	64.3	6.5
1988		83.7		33.4	59.5		47.4	36.7	.3					29.8	63.1	7.1
1989		82.6		26.1	66.4		46.1	47.4	.3					24.6	67.4	8.0
1990		83.9		29.7	66.5		57.3	37.3	.3					26.8	63.1	10.2
1991		76.6		21.9	76.7		59.6	39.8	.2					12.4	82.6	5.0
1992		72.3		22.4	76.9		73.1	26.6						12.8	79.7	7.5
1993		59.5		16.2	83.2		85.7	14.1						11.0	79.2	9.8
1994	.5	76.1		16.5	81.9		86.2	13.8						11.6	78.0	10.4
1995	.0	79.2		15.3	84.7		85.7	14.3		84.4		15.6		10.4	76.9	12.7
1996	1.0	71.1		7.5	92.5		100.0		.0	83.6		16.4		6.4	80.9	12.7
1997	1.2	71.6		11.7	87.4		100.0		.0	75.7		24.3		20.0	57.2	22.8
1998	1.8	71.0		8.2	91.8		100.0		.0	76.7	1.5	21.7		12.2	62.9	24.9
1999	2.7	65.7		6.3	93.7		100.0			71.5	1.8	26.6	3.2	11.1	62.3	26.6
2000	2.5	67.1		5.1	94.9		100.0			75.1	1.1	23.8	3.0	12.7	59.3	28.0
2001	13.8	60.1		4.3	95.7		100.0			59.7	1.2	39.2	13.4	11.3	56.4	32.3
2002	9.4	63.7		3.8	96.1	.1	100.0			52.1	1.0	46.9	24.0	8.5	43.0	48.5
2003	11.5	63.2		2.9	94.8	2.3	100.0			45.7	.9	53.4	31.7	6.4	50.8	42.7
2004	12.3	65.1		2.7	95.5	1.7	100.0	.0		43.8	.4	55.4	.4	5.4	53.1	41.5
2005	17.1	64.7		2.5	95.4	2.1	99.8	.2		35.1	3.4	61.4	.2	5.3	50.9	43.8
2006	19.6	63.4		2.5	92.7	4.7	99.8	.2		26.8	5.3	67.8	.1	54.9	56.4	40.1
2007	23.0	60.0		2.1	92.9	5.0	99.9	.1		34.1	2.4	63.5	52.5	3.8	50.1	46.1
2008	26.1	59.3		2.1	90.6	7.4	97.6	.4		26.8	1.3	71.9	56.8	2.9	55.5	41.5

Table D-6

Characteristics of 1975 to 2008 Pickups

YEAR	SALES (000)	FRAC	FUEL ECONOMY				WGHT LB	ENGINE		0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG
			LAB 55/45	ADJ CITY	ADJ HWY	ADJ COMP		CID	HP					
1975	1343	.131	14.0	11.1	13.1	11.9	4012	306	141	13.5	114	.491	.0351	28.8
1976	1866	.151	14.6	11.7	13.4	12.4	4122	316	139	13.9	112	.466	.0339	30.9
1977	2026	.143	16.0	12.9	14.5	13.6	4092	313	146	13.3	115	.496	.0357	33.4
1978	2268	.157	15.7	12.8	14.1	13.3	4104	306	144	13.4	114	.496	.0350	33.1
1979	2207	.159	15.5	12.7	13.9	13.2	4142	287	136	14.2	111	.502	.0327	32.9
1980	1437	.127	19.4	15.5	17.9	16.5	3740	236	118	14.4	108	.549	.0315	36.7
1981	1440	.136	21.0	16.7	19.5	17.9	3679	237	115	14.5	108	.521	.0313	39.3
1982	1441	.148	21.7	17.2	20.3	18.5	3629	228	117	14.3	109	.545	.0322	40.1
1983	1628	.158	22.2	17.5	20.9	18.9	3544	212	112	14.4	108	.566	.0317	40.0
1984	2043	.146	21.5	16.9	20.2	18.3	3619	215	114	14.5	108	.563	.0314	39.4
1985	2078	.144	21.4	16.9	20.1	18.2	3642	221	123	13.7	110	.588	.0336	39.6
1986	2532	.165	22.2	17.5	20.8	18.9	3574	206	120	13.7	110	.623	.0336	40.1
1987	2147	.144	22.5	17.5	21.2	19.0	3526	202	123	13.4	112	.639	.0347	40.1
1988	2459	.161	21.5	16.5	20.4	18.1	3737	229	138	12.9	115	.627	.0365	40.5
1989	2232	.154	21.2	16.2	20.0	17.8	3803	236	143	12.7	116	.633	.0373	40.5
1990	1835	.145	20.7	15.7	19.7	17.4	3928	247	152	12.4	118	.647	.0384	41.1
1991	1920	.153	21.7	16.3	20.7	18.2	3779	232	146	12.4	117	.658	.0385	41.4
1992	1840	.151	20.9	15.5	20.0	17.5	3976	245	151	12.5	117	.644	.0379	41.8
1993	2002	.152	21.1	15.6	20.2	17.6	3996	244	156	12.2	119	.666	.0390	42.4
1994	2669	.189	21.0	15.5	19.9	17.4	4056	248	163	12.0	121	.687	.0401	43.0
1995	2271	.150	20.4	14.9	19.3	16.9	4182	257	167	12.0	121	.687	.0399	43.1
1996	1955	.149	20.8	15.1	19.7	17.1	4190	251	178	11.5	124	.737	.0422	43.9
1997	2408	.167	20.4	14.7	19.4	16.8	4415	264	196	11.1	127	.756	.0439	45.3
1998	2415	.167	20.7	14.8	19.6	17.0	4282	252	190	11.2	127	.773	.0439	44.6
1999	2545	.167	19.9	14.2	18.6	16.3	4487	267	205	10.9	129	.776	.0453	44.7
2000	2613	.158	20.5	14.6	18.9	16.6	4340	255	203	10.8	130	.803	.0462	44.4
2001	2519	.161	19.6	13.9	18.1	15.9	4552	269	216	10.6	132	.812	.0470	44.7
2002	2381	.148	19.5	13.8	17.8	15.7	4690	271	226	10.4	134	.838	.0480	45.6
2003	2475	.157	19.9	14.0	18.2	16.1	4642	264	223	10.5	133	.847	.0475	46.3
2004	2506	.160	19.6	13.7	17.8	15.7	4939	282	249	10.1	138	.885	.0501	48.2
2005	2301	.145	19.7	13.6	18.1	15.8	4988	284	260	9.8	141	.917	.0520	49.1
2006	2188	.145	20.1	13.9	18.4	16.1	4968	278	256	9.9	140	.925	.0514	49.8
2007	2106	.138	20.2	13.9	18.6	16.2	5108	286	268	9.7	142	.938	.0522	51.4
2008	2115	.129	20.2	13.9	18.7	16.3	5219	291	283	9.6	145	.967	.0537	52.7

Table D-6 (Continued)

Percent of Pickups:

MODEL YEAR	DRIVETRAIN		TRANSMISSION		FUEL METERING				NUMBER OF VALVES				VVT HYBRID		VEHICLE SIZE			
	FRONT	4WD	MANUAL	LOCK	CVT	GDI	PORT	TBI	DSL	TWO	THREE	FOUR	FIVE			SMALL	MID	LARGE
1975		13.5		41.1												11.9	4.2	83.9
1976		20.9		38.8												9.3	2.9	87.8
1977		21.4		35.9												11.7	3.4	84.9
1978		27.0		37.4					1.2							11.6	3.3	85.0
1979		12.6		39.9	1.3				2.5							16.2	4.6	79.2
1980	1.8	21.1		58.8	21.9			1.0	4.2							31.5	6.8	61.7
1981	2.3	16.8		57.7	27.5			.6	7.1							25.6	9.1	65.3
1982	2.2	17.7		53.9	29.5			.2	10.3							24.0	21.9	54.1
1983	1.9	22.1		56.3	28.0			.1	4.4							19.2	38.2	42.7
1984	.6	24.7		54.9	29.3			1.0	2.7							20.7	34.4	44.9
1985		25.4		51.6	33.7			11.4	4.5	1.2						23.9	29.7	46.4
1986		25.2		58.4	30.4			21.2	17.6	.6						29.4	31.1	39.5
1987	.0	25.5		58.5	28.9			26.9	32.0	.3						20.5	49.0	30.5
1988	.0	28.4		51.0	38.8			35.4	48.3	.2						13.8	42.9	43.3
1989		28.9		52.4	41.5			38.8	51.1	.2						15.9	39.8	44.4
1990		27.9		45.8	49.8			52.4	41.4	.2						15.8	32.7	51.5
1991		24.8		52.2	46.4			47.9	48.7	.2						16.1	45.5	38.4
1992		26.3		47.1	52.1			58.0	38.6	.1						13.7	38.9	47.4
1993	.0	27.6		43.9	55.3			61.2	36.7							13.1	37.1	49.7
1994		29.3		40.0	59.0			69.5	29.7							13.4	39.0	47.6
1995		33.0		39.6	59.5			69.5	30.5		94.5		5.5			13.1	30.8	56.0
1996		29.3		34.7	64.0			99.8		.2	86.7	4.5	8.7			11.3	35.7	53.0
1997		34.6		25.3	74.7			99.9		.1	93.3	5.4	1.3			5.4	28.7	65.9
1998		34.8		27.3	71.1			100.0		.0	88.8		11.2			10.8	34.3	54.9
1999		45.3		17.5	81.5			100.0		.0	92.3		7.7			8.4	29.9	61.7
2000		38.4		16.7	82.5			100.0			87.3		12.7			3.9	29.3	66.8
2001		38.7		12.0	87.1			100.0			87.2		12.8			3.2	21.6	75.1
2002		42.3		9.5	89.6			100.0			82.2		17.8			8.3	19.6	72.1
2003		39.4		10.3	88.8			100.0			85.5		14.5			7.9	21.3	70.8
2004		46.3		7.0	92.1			100.0			67.6	14.3	18.1	18.9	.0	6.4	15.1	78.5
2005		46.7		5.7	94.3			100.0			59.2	14.0	26.8	39.1	.0	.4	9.4	90.2
2006		45.8		6.2	93.8			100.0			51.0	14.9	34.2	47.5	.1	.3	12.5	87.1
2007		45.2		4.5	95.5			100.0			60.9	11.6	27.5	39.1	.0	.0	12.4	87.6
2008		48.7		5.4	94.6			100.0			59.2	13.2	27.6	40.0		.0	12.1	87.9

Table D-7

Characteristics of 1975 to 2008 Trucks

YEAR	SALES (000)	FRAC	FUEL ECONOMY				WGHT LB	ENGINE		0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG
			<---- LAB 55/45	ADJ CITY	ADJ HWY	----> ADJ COMP		CID	HP					
1975	1987	.194	13.7	10.9	12.7	11.6	4072	311	142	13.6	114	.476	.0349	28.4
1976	2612	.212	14.4	11.5	13.2	12.2	4155	319	141	13.8	113	.458	.0340	30.5
1977	2823	.200	15.6	12.6	14.1	13.3	4135	318	147	13.3	115	.482	.0356	33.0
1978	3273	.227	15.2	12.4	13.7	12.9	4151	314	146	13.4	114	.481	.0351	32.4
1979	3088	.222	14.7	12.1	13.1	12.5	4252	298	138	14.3	111	.486	.0325	32.1
1980	1863	.165	18.6	14.8	17.1	15.8	3869	248	121	14.5	108	.528	.0313	36.3
1981	1821	.173	20.1	16.0	18.6	17.1	3806	247	119	14.6	108	.508	.0311	38.8
1982	1914	.197	20.5	16.3	19.0	17.4	3806	243	120	14.5	109	.524	.0317	39.7
1983	2300	.223	20.9	16.5	19.6	17.8	3763	231	118	14.5	108	.543	.0313	39.9
1984	3345	.239	20.5	16.1	19.3	17.4	3782	224	118	14.7	108	.557	.0310	39.3
1985	3669	.254	20.6	16.2	19.4	17.5	3795	224	124	14.1	110	.586	.0326	39.6
1986	4350	.283	21.4	16.8	20.2	18.2	3738	211	123	14.0	110	.621	.0330	40.4
1987	4134	.278	21.6	16.8	20.5	18.3	3713	210	131	13.3	113	.654	.0351	40.5
1988	4559	.298	21.2	16.2	20.2	17.9	3841	227	141	12.9	115	.650	.0366	40.9
1989	4435	.307	20.9	15.9	19.8	17.6	3921	234	146	12.8	116	.653	.0372	41.2
1990	3805	.302	20.7	15.6	19.8	17.4	4005	237	151	12.6	117	.668	.0377	41.8
1991	4049	.322	21.3	15.9	20.3	17.8	3948	228	150	12.6	117	.681	.0379	42.2
1992	4064	.334	20.8	15.5	19.9	17.4	4056	234	155	12.5	118	.685	.0382	42.4
1993	4754	.360	21.0	15.5	20.1	17.5	4073	235	162	12.1	120	.710	.0398	42.9
1994	5710	.404	20.8	15.3	19.7	17.2	4125	239	166	12.0	121	.717	.0403	43.0
1995	5749	.380	20.5	15.0	19.5	17.0	4184	244	168	12.0	121	.715	.0401	43.2
1996	5254	.400	20.8	15.1	19.9	17.2	4225	243	179	11.5	124	.757	.0423	44.3
1997	6124	.424	20.6	14.8	19.5	17.0	4344	248	187	11.4	126	.775	.0429	44.9
1998	6485	.449	20.9	14.9	19.8	17.1	4283	242	187	11.2	126	.795	.0435	44.9
1999	6839	.449	20.5	14.6	19.2	16.7	4412	249	197	11.0	128	.814	.0446	45.3
2000	7447	.449	20.8	14.7	19.4	16.9	4375	242	197	11.0	128	.832	.0448	45.6
2001	7202	.461	20.6	14.6	19.1	16.7	4463	243	209	10.6	131	.882	.0466	46.1
2002	7815	.485	20.6	14.4	19.1	16.7	4546	244	219	10.4	134	.918	.0482	46.9
2003	7824	.496	20.9	14.6	19.3	16.9	4586	243	221	10.4	134	.927	.0481	48.0
2004	8173	.520	20.8	14.3	19.2	16.7	4710	252	236	10.0	137	.953	.0501	49.0
2005	7866	.495	21.4	14.6	19.8	17.2	4668	244	237	10.0	137	.983	.0505	50.1
2006	7111	.471	21.8	14.9	20.1	17.5	4665	240	235	10.0	137	.992	.0502	51.0
2007	7257	.475	22.1	15.1	20.4	17.7	4741	245	248	9.7	140	1.031	.0521	52.5
2008	7871	.480	22.5	15.3	20.9	18.1	4742	240	251	9.7	141	1.060	.0526	53.5

Table D-7 (Continued)

Percent of Trucks:

MODEL YEAR	DRIVETRAIN		TRANSMISSION			FUEL METERING				NUMBER OF VALVES					VEHICLE SIZE			
	FRONT	4WD	MANUAL	LOCK	CVT	GDI	PORT	TBI	DSL	TWO	THREE	FOUR	FIVE	VVT	HYBRID	SMALL	MID	LARGE
1975		17.1		37.0				.1								10.9	24.2	64.9
1976		22.9		34.8				.1								9.0	20.3	70.7
1977		23.6		32.0				.1								11.0	20.4	68.5
1978		29.0		32.4				.1	.8							10.9	22.7	66.3
1979		18.0		35.2	2.1			.3	1.8							15.2	19.5	65.3
1980	1.4	25.0		53.0	24.6			1.7	3.5							28.4	17.6	54.0
1981	1.9	20.1		51.6	31.1			1.1	5.6							23.2	19.1	57.7
1982	1.7	20.0		45.7	33.2			.7	9.3							21.1	31.0	47.9
1983	1.4	25.8		45.9	36.1			.6	4.7							16.6	45.9	37.6
1984	4.9	31.0		42.1	35.1			1.9	.6	2.3						19.5	46.4	34.1
1985	7.1	30.6		37.1	42.2			8.7	3.5	1.1						19.2	48.5	32.3
1986	5.9	30.3		42.7	42.0			21.8	18.7	.7						23.5	48.5	28.0
1987	7.4	31.5		39.9	44.8			33.3	33.6	.3						19.9	59.6	20.6
1988	9.0	33.3		35.5	53.1			43.3	44.4	.2						15.0	57.2	27.8
1989	9.9	32.0		32.7	56.8			45.9	47.6	.2						13.9	58.9	27.2
1990	15.5	31.3		28.1	67.4			55.2	40.8	.2						13.4	57.1	29.6
1991	9.7	35.3		31.0	67.4			55.0	43.2	.1						11.4	67.2	21.4
1992	13.6	31.4		27.3	71.5			65.9	32.5	.1						10.4	64.0	25.6
1993	15.1	29.4		23.3	75.7			73.4	25.7							8.8	65.3	25.9
1994	13.1	36.9		23.5	75.1			77.2	22.5							9.8	63.1	27.2
1995	17.7	40.7		20.5	78.6			79.8	20.2		91.6	.3	8.1			8.6	63.5	27.9
1996	20.1	37.1		15.6	83.5			99.9		.1	87.6	2.0	10.4			6.5	67.1	26.4
1997	13.9	43.2		14.6	85.0			100.0		.0	86.3	2.4	11.3			10.1	52.5	37.3
1998	18.7	42.0		13.4	86.0			100.0		.0	84.2	.6	15.2			8.9	58.7	32.4
1999	17.4	44.6		9.1	90.5			100.0			82.7	.8	16.6	3.1		7.7	55.8	36.5
2000	19.4	42.4		8.0	91.7			100.0			80.1	.5	19.4	4.7		6.7	55.7	37.5
2001	18.5	43.8		6.3	93.4			100.0			72.4	.6	27.1	9.3		6.6	47.6	45.9
2002	18.5	47.6		4.9	94.7	.0		100.0			64.4	.6	35.1	16.2		7.1	43.5	49.4
2003	19.2	46.5		4.8	93.7	1.2		100.0			62.8	.5	36.7	19.8		5.9	47.8	46.3
2004	17.2	52.3		3.7	95.0	1.0		100.0	.0		51.6	4.6	43.6	31.6	.0	5.1	46.2	48.7
2005	25.7	48.3		3.0	95.0	2.0		99.9	.1		47.2	5.9	46.9	39.8	.1	2.8	47.3	49.9
2006	25.1	48.4		3.2	93.5	3.3		99.9	.1		38.6	7.4	54.0	49.6	1.4	2.0	49.0	49.0
2007	24.8	48.9		2.5	94.1	3.4		99.9	.1		43.7	4.8	51.6	47.9	.9	2.2	44.8	53.0
2008	26.6	50.2		2.7	92.7	4.6		1.2	98.5	.2	35.5	4.3	60.2	50.8	1.2	1.8	48.5	49.7

Table D-8

Characteristics of 1975 to 2008 Light Vehicles

YEAR	SALES (000)	FRAC	<---- FUEL ECONOMY ---->				WGHT LB	ENGINE		0-60 TIME	TOP SPEED	HP/ CID	HP/ WT	TON -MPG
			LAB 55/45	ADJ CITY	ADJ HWY	ADJ COMP		CID	HP					
1975	10224	1.000	15.3	12.0	14.6	13.1	4060	293	137	14.1	112	.507	.0335	31.6
1976	12334	1.000	16.7	13.2	15.7	14.2	4079	294	135	14.3	111	.493	.0328	34.4
1977	14123	1.000	17.7	14.0	16.6	15.1	3982	287	136	13.8	112	.510	.0339	35.7
1978	14448	1.000	18.6	14.7	17.5	15.8	3715	266	129	13.6	112	.525	.0344	35.1
1979	13882	1.000	18.7	14.9	17.4	15.9	3655	252	124	13.9	110	.532	.0335	34.7
1980	11306	1.000	22.5	17.6	21.5	19.2	3228	198	104	14.3	107	.574	.0320	36.6
1981	10554	1.000	24.1	18.8	23.0	20.5	3202	193	102	14.4	107	.580	.0318	38.9
1982	9732	1.000	24.7	19.2	23.9	21.1	3202	188	103	14.4	107	.593	.0320	40.0
1983	10302	1.000	24.6	19.0	23.9	21.0	3257	193	107	14.1	108	.599	.0327	40.5
1984	14020	1.000	24.6	19.1	24.0	21.0	3262	190	109	14.0	109	.618	.0332	40.7
1985	14460	1.000	25.0	19.3	24.4	21.3	3271	189	114	13.5	110	.650	.0347	41.4
1986	15365	1.000	25.7	19.8	25.0	21.8	3238	180	114	13.4	111	.678	.0351	42.0
1987	14865	1.000	25.9	19.8	25.3	22.0	3221	175	118	13.1	112	.710	.0361	42.1
1988	15295	1.000	25.9	19.6	25.2	21.9	3283	180	123	12.8	114	.726	.0372	42.9
1989	14453	1.000	25.4	19.1	24.8	21.4	3351	185	129	12.5	115	.743	.0382	43.0
1990	12615	1.000	25.2	18.7	24.6	21.2	3426	185	135	12.2	117	.781	.0394	43.5
1991	12573	1.000	25.4	18.8	24.7	21.2	3410	184	138	12.1	118	.796	.0402	43.6
1992	12172	1.000	24.9	18.2	24.4	20.8	3512	191	145	11.8	120	.807	.0413	44.1
1993	13211	1.000	25.1	18.2	24.4	20.9	3519	191	147	11.8	120	.809	.0416	44.5
1994	14125	1.000	24.6	17.8	23.8	20.4	3603	197	152	11.7	121	.816	.0420	44.6
1995	15145	1.000	24.7	17.7	24.1	20.5	3613	196	158	11.3	123	.857	.0438	45.2
1996	13144	1.000	24.8	17.6	24.0	20.4	3659	197	164	11.1	125	.878	.0447	45.6
1997	14459	1.000	24.5	17.4	23.6	20.1	3727	199	169	11.0	126	.890	.0452	45.9
1998	14458	1.000	24.5	17.2	23.6	20.1	3744	199	171	10.9	126	.904	.0457	46.3
1999	15218	1.000	24.1	16.9	23.0	19.7	3835	203	179	10.7	128	.921	.0465	46.5
2000	16574	1.000	24.3	16.9	23.0	19.8	3821	200	181	10.6	129	.942	.0472	46.7
2001	15610	1.000	24.2	16.8	22.8	19.6	3879	201	187	10.5	130	.968	.0480	47.3
2002	16119	1.000	24.1	16.6	22.5	19.4	3951	203	195	10.3	132	.994	.0493	47.9
2003	15775	1.000	24.3	16.7	22.7	19.6	3999	204	199	10.2	133	1.007	.0496	49.0
2004	15711	1.000	24.0	16.3	22.4	19.3	4111	212	211	9.9	135	1.026	.0511	49.7
2005	15893	1.000	24.8	16.8	23.1	19.9	4059	205	209	9.9	135	1.049	.0512	50.9
2006	15105	1.000	25.2	17.0	23.4	20.1	4067	204	213	9.8	137	1.073	.0522	51.7
2007	15287	1.000	25.7	17.3	23.9	20.6	4094	204	218	9.7	137	1.094	.0526	53.4
2008	16407	1.000	26.0	17.5	24.2	20.8	4117	203	222	9.6	139	1.119	.0535	54.2

Table D-8 (Continued)

Percent of Light Vehicles:

MODEL YEAR	DRIVETRAIN		TRANSMISSION			FUEL METERING				NUMBER OF VALVES				VVT HYBRID	VEHICLE SIZE			
	FRONT	4WD	MANUAL	LOCK	CVT	GDI	PORT	TBI	DSL	TWO	THREE	FOUR	FIVE		SMALL	MID	LARGE	
1975	5.3	3.3	23.2				4.1	.0	.2					46.8	23.5	29.8		
1976	4.6	4.8	20.9				2.5	.0	.2					45.6	24.2	30.3		
1977	5.5	4.7	19.8				3.4	.0	.4					43.7	23.7	32.5		
1978	7.4	6.6	23.0	5.2			3.9	.0	.9					37.0	31.7	31.2		
1979	9.2	4.3	25.1	6.7			3.7	.1	2.0					37.3	30.9	31.7		
1980	25.0	4.9	35.4	17.8			5.2	.8	4.3					50.1	31.6	18.3		
1981	31.0	4.0	34.1	33.0			5.1	2.4	5.9					46.6	33.4	20.0		
1982	37.0	4.6	32.8	47.8			5.8	8.0	5.6					49.6	31.0	19.5		
1983	37.0	8.1	30.8	52.1			7.3	14.8	2.7					44.9	34.9	20.1		
1984	42.1	8.2	28.4	52.8			11.9	18.7	1.8					48.4	33.4	18.2		
1985	47.8	9.3	26.5	54.5			18.2	24.8	.9					46.5	33.9	19.7		
1986	52.6	9.3	29.8	53.5			32.5	25.7	.4					49.3	33.7	17.0		
1987	57.7	9.6	29.1	55.4			39.9	31.4	.3					51.4	34.1	14.5		
1988	60.0	10.5	27.6	62.2			50.6	34.3	.1					50.0	32.7	17.3		
1989	60.2	10.5	24.6	65.5	.1		57.3	33.9	.1					44.7	37.6	17.7		
1990	63.8	10.1	22.2	71.2	.0		70.8	27.0	.1					44.9	37.2	17.8		
1991	59.6	12.3	23.9	71.6	.0		70.6	28.7	.1					45.3	39.4	15.2		
1992	58.4	11.2	20.7	74.8	.0		81.6	17.8	.1					41.1	39.9	19.0		
1993	59.9	11.3	19.8	76.5	.0		85.0	14.6						39.8	42.4	17.8		
1994	55.6	15.2	19.5	77.6			87.7	12.1	.0					38.8	41.0	20.1		
1995	57.6	16.2	17.9	80.7			91.6	8.4	.0	64.4	.8	34.8	.0	6.1	38.8	41.9	19.3	
1996	60.0	15.7	15.1	83.5	.0		99.3	.7	.1	60.7	1.3	38.0	.0	7.0	35.2	46.0	18.7	
1997	55.8	19.3	14.0	85.5	.0		99.5	.5	.1	60.4	1.6	37.9	.1	6.5	36.0	39.9	24.1	
1998	56.4	20.1	12.8	86.7	.0		99.8	.1	.1	59.1	1.1	39.4	.5	10.1	31.2	47.9	20.8	
1999	55.8	21.3	10.1	89.4	.0		99.9	.1	.1	56.6	1.5	41.0	.9	10.8	29.7	46.9	23.4	
2000	55.5	20.2	9.7	89.5	.0		99.8	.0	.1	55.2	1.2	42.6	1.0	15.0	.0	29.2	43.9	26.9
2001	53.8	21.9	9.0	90.2	.1		99.9		.1	51.0	1.4	46.0	1.6	19.6	.0	30.4	39.4	30.2
2002	52.7	25.0	8.1	91.3	.2		99.8		.2	46.7	1.3	50.5	1.5	25.3	.2	28.5	39.8	31.7
2003	50.7	25.0	8.0	90.8	1.1		99.8		.2	44.5	1.4	52.5	1.6	30.6	.3	28.5	40.5	31.0
2004	47.7	29.8	6.8	91.8	1.2		99.9		.1	37.7	3.2	57.7	1.4	37.6	.5	25.4	41.1	33.5
2005	53.0	26.8	6.2	91.4	2.3		99.7		.3	34.4	3.9	61.1	.6	45.8	1.1	23.7	43.1	33.2
2006	51.9	25.8	6.5	90.6	2.8		99.6		.4	28.3	4.4	67.1	.2	55.4	1.5	25.4	40.5	34.1
2007	54.0	26.1	5.8	87.5	6.7		99.9		.1	28.8	2.8	68.4	.0	57.2	2.2	24.2	42.6	33.2
2008	53.3	27.8	6.7	85.5	7.8	2.3	97.6		.1	22.6	2.6	74.8	.0	57.7	2.5	23.6	42.1	34.3