

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

## Appendix L Data Stratified by Vehicle Type and Marketing Group

Compliance and Innovative Strategies Division  
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Transportation and Climate Division

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

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*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 L-1

## MY1975 to MY2008 Cars Adjusted Composite Fuel Economy by Marketing Group

YEAR	GM	Ford	Chrysler	Toyota	Honda	Nissan	HK	VW	BMW	All
1975	12.9	12.1	13.1	18.1	26.7	21.5		22.5	14.7	13.4
1976	14.2	14.4	14.1	21.4	28.0	22.8		23.4	15.6	14.9
1977	15.2	14.4	14.0	24.6	30.8	23.1		24.6	16.9	15.6
1978	16.3	16.1	16.3	23.0	28.8	23.0		23.2	16.4	17.0
1979	16.4	16.5	18.0	20.4	24.6	22.7		24.4	16.7	17.3
1980	18.7	19.3	19.5	23.3	24.6	26.4		26.3	21.3	20.0
1981	19.9	20.2	22.3	26.4	26.0	25.8		29.1	21.8	21.4
1982	20.9	21.2	23.0	26.0	28.2	26.0		28.1	21.6	22.3
1983	20.1	20.6	24.1	26.9	29.9	27.7		25.6	21.6	22.0
1983	20.9	21.8	24.2	27.9	29.9	26.9		24.3	23.0	22.4
1984	21.9	22.3	24.0	27.3	28.7	25.1		25.2	21.7	23.0
1985	23.1	22.7	24.3	27.4	28.4	25.7	29.5	24.7	21.2	23.8
1986	23.2	22.7	23.4	27.8	27.7	24.9	29.0	24.0	20.3	23.9
1987	23.9	22.9	24.0	27.5	26.7	25.8	28.7	25.0	18.0	24.2
1988	23.2	22.9	23.5	26.7	26.2	25.3	27.7	24.8	18.2	23.8
1989	23.0	22.5	23.0	25.4	25.3	23.7	27.6	23.8	18.3	23.4
1990	22.9	22.9	22.9	25.4	25.2	24.2	27.2	24.3	19.1	23.4
1991	22.4	22.5	23.0	24.0	25.8	24.9	25.8	24.0	19.9	23.1
1992	22.8	23.0	23.1	23.9	26.6	24.2	25.6	22.3	20.9	23.4
1993	22.9	22.5	21.8	23.9	26.4	24.6	26.9	23.1	20.8	23.2
1994	22.7	22.9	23.3	24.6	26.9	24.1	25.4	23.3	20.8	23.4
1995	23.1	22.0	22.5	24.1	26.0	24.8	26.0	22.9	22.3	23.3
1996	23.2	22.3	22.4	24.3	26.1	24.2	25.3	23.2	21.0	23.4
1997	22.6	22.6	23.3	24.6	25.9	24.6	24.9	23.3	20.7	23.4
1998	22.5	22.4	22.2	24.6	25.0	24.1	24.9	22.9	20.7	23.0
1999	22.6	22.1	22.5	24.7	25.0	22.7	24.3	23.0	20.2	22.9
2000	22.9	21.9	22.4	25.1	25.8	22.8	24.8	22.8	20.1	23.1
2001	23.1	22.0	22.1	24.6	25.5	23.2	24.4	23.2	21.1	23.2
2002	23.0	21.6	22.9	25.7	26.1	22.3	24.1	23.4	21.5	23.2
2003	23.3	21.1	23.0	25.7	26.0	22.5	23.3	22.7	21.2	23.2
2004	23.1	21.8	22.4	27.1	26.0	23.3	23.8	22.7	21.6	23.6
2005	22.7	21.9	20.6	26.9	26.5	23.0	24.4	23.6	21.7	23.4
2006	23.0	22.6	21.6	27.3	26.5	24.9	25.9	22.7	21.9	24.2
2007	22.7	22.0	21.6	27.8	26.5	25.2	25.2	22.6	22.0	24.2
2008										

Table L-2 MY1975 to MY2008 Wagons Adjusted Composite Fuel Economy by Marketing Group

YEAR	GM	Ford	Chrysler	Toyota	Honda	Nissan	HK	VW	BMW	All
1975	12.5	12.0	13.6	19.4		17.8		23.3		13.8
1976	13.2	14.1	14.5	21.0	25.1	23.4		23.8		14.7
1977	14.4	14.0	14.1	23.7	27.1	23.0		24.5		15.3
1978	15.2	15.9	15.1	21.7	26.7	21.7		22.0		16.4
1979	15.1	17.0	15.6	21.2	25.3	23.7		21.3		16.7
1980	17.2	19.6	16.5	23.3	27.6	27.3		34.1		20.1
1981	18.0	21.6	21.4	24.7	28.6	26.7		34.5		21.8
1982	18.6	21.6	23.2	24.9	31.2	27.2		25.4		21.6
1983	19.5	22.0	23.3	29.5	31.2	29.5		26.1		23.2
1984	20.6	22.3	23.9	28.8	30.7	29.9		21.2		22.6
1985	20.9	22.9	22.9	29.9	29.5	25.6		22.1		23.4
1986	21.6	23.2	22.6	27.2	29.2	24.0		19.4		23.0
1987	21.8	22.6	22.6	27.5	28.8	23.6		22.5		23.0
1988	22.5	22.4	24.5	26.5	28.6	23.6		26.0		23.3
1989	22.0	21.7	25.9	25.6	28.9	27.0		24.6		22.6
1990	22.2	21.3	26.9	25.0	29.1	27.9		23.8		22.4
1991	21.5	24.0		25.6	23.9			22.6		23.4
1992	21.1	23.7		23.9	22.6			22.4	19.5	23.0
1993	22.4	25.7	22.6	24.6	22.8			19.8	20.3	24.6
1994	22.7	25.5		24.3	23.9			19.6	19.7	24.4
1995	22.9	25.4		25.3	23.8			19.6	20.2	24.4
1996	23.2	22.7		25.1	23.3		24.9	22.6		22.8
1997	27.4	24.0			22.0		24.9	20.2		23.7
1998	27.6	22.5					24.1	21.3		23.1
1999	26.3	22.2					23.6	21.8	19.4	22.6
2000	23.4	22.4					23.5	20.5	20.1	22.4
2001	23.4	21.7	21.8					19.7	20.3	21.7
2002	22.5	22.3	20.5					22.4	20.7	21.5
2003	26.7	22.3	20.6	27.5				22.8	20.7	23.2
2004	27.0	21.1	19.7	28.0				22.2	20.8	22.1
2005	26.3	22.2	19.3	28.4				23.3	20.6	22.2
2006	24.8	22.0	20.1	28.1				23.5	21.2	22.5
2007	24.7	21.9	19.9	28.2	30.6		21.9	23.5	21.6	22.7
2008	26.1	20.1	20.2	26.1	30.6		22.1	23.5	20.8	23.4

Table L-3 MY1975 to MY2008 Cars and Wagons Adjusted Composite Fuel Economy by Marketing Group

YEAR	GM	Ford	Chrysler	Toyota	Honda	Nissan	HK	VW	BMW	All
1975	12.9	12.1	13.2	18.8	26.7	21.4		22.6	14.7	13.5
1976	14.1	14.3	14.2	21.3	27.8	22.9		23.4	15.6	14.9
1977	15.1	14.3	14.0	24.5	30.2	23.1		24.6	16.9	15.6
1978	16.2	16.1	16.1	22.8	28.6	22.8		23.2	16.4	16.9
1979	16.3	16.6	17.7	20.5	24.7	22.8		24.4	16.7	17.2
1980	18.7	19.4	19.2	23.3	24.8	26.6		26.6	21.3	20.0
1981	19.8	20.4	22.2	26.3	26.2	25.9		29.2	21.8	21.4
1982	20.7	21.3	23.0	25.9	28.4	26.1		28.0	21.6	22.2
1983	20.1	20.8	24.0	27.7	30.0	27.9		25.6	21.6	22.1
1984	20.9	21.8	24.2	28.0	29.9	27.2		24.2	23.0	22.4
1985	21.8	22.3	24.0	28.0	28.8	25.1		25.1	21.7	23.0
1986	23.0	22.8	24.2	27.3	28.5	25.4	29.5	24.6	21.2	23.7
1987	23.1	22.7	23.4	27.8	27.7	24.8	29.0	24.0	20.3	23.8
1988	23.8	22.9	24.0	27.5	26.7	25.7	28.7	25.0	18.0	24.1
1989	23.2	22.8	23.6	26.6	26.2	25.3	27.7	24.8	18.2	23.7
1990	23.0	22.4	23.0	25.4	25.4	23.8	27.6	23.8	18.3	23.3
1991	22.8	23.0	22.9	25.4	25.2	24.2	27.2	24.3	19.1	23.4
1992	22.4	22.6	23.0	24.0	25.7	24.9	25.8	23.9	19.9	23.1
1993	22.8	23.3	23.1	24.0	26.5	24.2	25.6	22.2	20.8	23.5
1994	22.9	22.8	21.8	24.0	26.4	24.6	26.9	23.0	20.7	23.3
1995	22.7	23.1	23.3	24.7	26.8	24.1	25.4	23.2	20.8	23.4
1996	23.1	22.1	22.5	24.2	26.0	24.8	25.9	22.9	22.3	23.3
1997	23.2	22.4	22.4	24.3	26.1	24.2	25.3	23.1	21.0	23.4
1998	22.7	22.6	23.3	24.6	25.9	24.6	24.9	23.2	20.7	23.4
1999	22.5	22.4	22.2	24.6	25.0	24.1	24.8	22.8	20.6	23.0
2000	22.6	22.1	22.5	24.7	25.0	22.7	24.3	22.9	20.2	22.9
2001	22.9	21.9	22.3	25.1	25.8	22.8	24.8	22.5	20.2	23.0
2002	23.1	22.0	21.7	24.6	25.5	23.2	24.4	23.1	21.1	23.1
2003	23.1	21.7	22.2	25.8	26.1	22.3	24.1	23.3	21.5	23.2
2004	23.4	21.1	21.9	25.9	26.0	22.5	23.3	22.6	21.2	23.1
2005	23.3	21.9	21.2	27.2	26.0	23.3	23.8	22.7	21.6	23.5
2006	22.9	21.9	20.4	27.0	26.5	23.0	24.4	23.6	21.7	23.3
2007	23.1	22.6	21.0	27.3	26.7	24.9	25.6	22.8	21.9	24.1
2008	23.0	21.9	21.2	27.7	26.8	25.2	25.0	22.6	21.9	24.1

Table L-4

## MY1975 to MY2008 Vans Adjusted Composite Fuel Economy by Marketing Group

YEAR	GM	Ford	Chrysler	Toyota	Honda	Nissan	HK	VW	BMW	All
1975	12.2	10.7	10.7	17.5				17.6		11.1
1976	11.9	11.4	12.1					17.0		11.8
1977	12.7	13.2	11.7					18.9		12.5
1978	11.9	12.8	11.4					17.0		12.1
1979	12.4	10.3	11.7					16.0		11.5
1980	14.2	13.8	14.1					16.2		14.1
1981	15.3	14.3	14.8					15.8		14.8
1982	15.2	13.8	15.0					18.4		14.7
1983	16.0	13.8	15.3					16.4		15.1
1984	15.5	14.1	17.2	22.9				17.6		16.1
1985	15.9	13.8	17.8	22.6				18.1		16.5
1986	16.4	16.7	18.6	22.2				16.2		17.5
1987	16.8	16.6	18.9	21.5		18.9		15.9		17.7
1988	17.1	16.4	19.4	21.6		18.8		16.7		17.9
1989	17.0	16.9	19.0	21.5		18.6		17.4		17.8
1990	17.4	16.4	19.3			21.3		17.2		17.8
1991	17.4	16.7	19.0	19.1		21.7		17.3		17.9
1992	17.4	16.6	18.9	18.6		21.3				17.9
1993	17.3	17.4	19.6	18.1		18.1		17.4		18.2
1994	17.5	16.7	18.5	18.2		18.8		16.6		17.8
1995	17.1	18.0	19.0	18.6	20.9	19.0		16.1		18.1
1996	17.7	17.7	18.8	18.4	23.3	18.9				18.3
1997	18.0	17.1	18.7	18.2	20.2	18.6		15.3		18.2
1998	18.2	18.3	19.2	19.8	21.9	18.6				18.7
1999	18.0	17.2	18.8	19.7	19.8	19.0		15.7		18.3
2000	18.0	17.8	19.1	19.6	19.6	18.7		15.6		18.6
2001	18.7	15.2	19.0	20.0	19.6	18.4		16.7		18.0
2002	18.2	17.9	19.3	19.9	19.7	18.4	16.2	16.8		18.7
2003	18.8	18.1	19.7	19.9	19.7		16.2	16.7		19.0
2004	18.6	17.6	19.8	20.5	19.6	19.9	17.3			19.2
2005	18.2	18.8	19.6	19.9	21.0	19.9	17.3			19.3
2006	18.4	18.2	19.7	20.0	21.0	20.1	19.2			19.5
2007	18.2	19.5	19.6	20.8	19.9	19.7	19.2			19.6
2008	16.8	19.4	19.8	20.7	20.5	19.7	19.2			19.7

Table L-5 MY1975 to MY2008 SUVs Adjusted Composite Fuel Economy by Marketing Group

YEAR	GM	Ford	Chrysler	Toyota	Honda	Nissan	HK	VW	BMW	All
1975	10.0	9.0	12.5	10.2						11.0
1976	11.1	11.6	12.7	9.3						11.7
1977	12.5	12.3	13.5	11.6						12.8
1978	11.9	11.2	13.3	10.9						12.3
1979	9.5	9.3	13.1	11.7						10.6
1980	12.4	11.8	14.3	11.7						13.2
1981	13.7	12.8	15.7	12.2						14.3
1982	16.4	12.5	15.8	12.1						15.0
1983	17.7	13.0	15.6	12.0						16.2
1984	17.5	15.6	15.5	14.7						16.4
1985	17.7	16.0	15.6	18.0						16.9
1986	16.8	16.8	16.4	19.8						17.2
1987	16.9	17.3	16.8	19.1		15.7				17.5
1988	16.8	16.9	16.3	17.0		15.6				17.2
1989	17.2	16.1	16.2	16.5		15.9				16.8
1990	16.7	15.7	16.7	16.3		16.3				16.6
1991	17.5	16.8	16.3	15.4		16.3				17.0
1992	16.6	16.7	16.6	14.2		16.3				16.6
1993	16.8	16.8	16.3	14.4		16.1				16.5
1994	16.6	16.6	16.0	14.4	16.6	15.4				16.4
1995	16.4	16.1	16.0	15.3		15.7	20.0			16.2
1996	16.7	16.2	16.0	18.5	16.0	16.3	19.1			16.5
1997	16.2	15.4	16.4	18.6	20.0	16.1	19.3			16.5
1998	17.0	15.4	15.7	18.6	20.5	15.9	19.7			16.5
1999	16.5	15.4	15.7	18.3	20.6	15.9	19.7			16.4
2000	16.2	15.4	15.7	18.0	20.8	15.9	18.8		14.3	16.3
2001	15.9	17.3	15.7	18.1	20.2	16.0	19.2		15.6	16.9
2002	16.2	16.3	15.8	18.1	21.0	16.0	19.3		16.3	16.7
2003	16.0	15.9	16.7	17.9	20.0	17.5	18.2	14.7	16.2	16.8
2004	16.2	15.9	16.5	18.3	19.7	16.4	18.3	15.2	17.4	16.9
2005	16.7	17.1	16.1	18.6	19.5	17.2	18.8	15.5	17.2	17.3
2006	17.4	16.9	16.1	19.6	19.8	17.2	18.9	15.5	17.2	17.7
2007	17.1	17.9	17.2	19.6	20.5	17.9	20.0	15.8	18.9	18.2
2008	17.8	18.8	18.2	19.5	20.4	18.1	19.8	16.1	18.5	18.7

Table L-6 MY1975 to MY2008 Pickups Adjusted Composite Fuel Economy by Marketing Group

YEAR	GM	Ford	Chrysler	Toyota	Honda	Nissan	HK	VW	BMW	All
1975	12.2	10.7	11.1	18.2		20.1				11.9
1976	12.4	11.8	11.9	18.9		20.9				12.4
1977	12.9	13.6	12.3	23.1		21.3				13.6
1978	12.5	13.6	12.3	20.9		21.7				13.3
1979	12.9	12.7	12.7	16.6		19.7				13.2
1980	15.7	15.4	16.8	18.3		21.3		26.7		16.5
1981	17.0	16.7	16.9	22.5		23.6		31.4		17.9
1982	18.6	16.0	18.1	21.8		23.6		33.3		18.5
1983	18.2	17.9	19.9	21.7		23.3		27.9		18.9
1984	17.6	17.8	16.5	21.4		22.3				18.3
1985	17.4	17.3	15.8	23.0		21.8				18.2
1986	17.7	18.4	17.1	22.4		20.9				18.9
1987	18.1	18.6	17.9	22.4		21.2				19.0
1988	17.2	18.2	17.5	21.1		20.8				18.1
1989	17.3	17.7	16.8	19.6		20.8				17.8
1990	16.1	17.8	16.1	19.3		22.6				17.4
1991	17.9	17.9	15.8	19.7		22.4				18.2
1992	17.0	17.4	16.1	19.6		22.2				17.5
1993	16.8	17.7	15.8	19.6		21.8				17.6
1994	16.6	18.0	15.6	20.0		21.0				17.4
1995	16.7	17.0	14.7	19.1		20.4				16.9
1996	17.6	17.6	14.4	19.2		20.5				17.1
1997	16.9	17.4	14.7	16.6		20.2				16.8
1998	17.3	17.2	14.9	19.2		20.6				17.0
1999	16.2	16.7	14.6	18.7		18.8				16.3
2000	16.9	16.8	15.1	16.7		17.6				16.6
2001	16.5	16.1	14.3	17.0		17.9				15.9
2002	15.4	16.3	14.6	16.7		17.6				15.7
2003	16.2	16.2	14.7	16.8		17.9				16.1
2004	16.1	15.6	14.5	16.5		18.5				15.7
2005	16.4	15.4	14.7	17.2		15.7				15.8
2006	16.6	15.3	15.4	17.2	17.2	15.9				16.1
2007	16.4	15.7	15.6	17.0	17.2	16.2				16.2
2008	16.9	15.8	15.7	16.7	17.2	15.1				16.3

Table L-7 MY1975 to MY2008 Trucks Adjusted Composite Fuel Economy by Marketing Group

YEAR	GM	Ford	Chrysler	Toyota	Honda	Nissan	HK	VW	BMW	All
1975	12.0	10.7	11.2	16.1		20.1		17.6		11.6
1976	12.2	11.7	12.2	16.0		20.9		17.0		12.2
1977	12.8	13.5	12.3	19.5		21.3		18.9		13.3
1978	12.3	13.2	12.3	18.1		21.7		17.0		12.9
1979	12.3	12.0	12.5	16.4		19.7		16.0		12.5
1980	15.2	14.9	15.4	18.2		21.3		21.5		15.8
1981	16.5	16.0	16.0	22.3		23.6		25.1		17.1
1982	17.9	15.2	16.6	21.4		23.6		23.6		17.4
1983	17.6	16.8	17.6	21.2		23.3		17.3		17.8
1984	17.2	16.9	16.5	21.2		22.3		17.6		17.4
1985	17.2	16.4	16.7	22.5		21.8		18.1		17.5
1986	17.1	17.8	17.6	22.1		20.9		16.2		18.2
1987	17.4	17.9	18.0	21.8		19.9		15.9		18.3
1988	17.1	17.6	18.0	20.5		19.1		16.7		17.9
1989	17.2	17.2	17.7	19.4		19.9		17.4		17.6
1990	16.6	17.2	18.0	18.2		21.1		17.2		17.4
1991	17.7	17.3	17.6	18.6		20.6		17.3		17.8
1992	17.0	17.0	17.8	18.1		19.9				17.4
1993	16.9	17.4	17.7	18.3		19.6		17.4		17.5
1994	16.8	17.4	17.0	18.1	16.6	18.9		16.6		17.2
1995	16.7	17.1	16.6	17.4	20.9	18.4	20.0	16.1		17.0
1996	17.2	17.2	16.7	18.9	18.5	18.7	19.1			17.2
1997	16.8	16.6	16.7	18.4	20.0	18.2	19.3	15.3		17.0
1998	17.4	16.7	16.5	19.0	20.6	18.2	19.7			17.1
1999	16.6	16.3	16.3	18.6	20.4	17.3	19.7	15.7		16.7
2000	16.9	16.4	16.7	17.8	20.2	16.9	18.8	15.6	14.3	16.9
2001	16.5	16.4	15.9	17.9	20.0	16.7	19.2	16.7	15.6	16.7
2002	16.1	16.5	16.2	17.8	20.4	16.6	18.3	16.8	16.3	16.7
2003	16.4	16.2	16.8	17.6	19.9	17.6	17.6	16.2	16.2	16.9
2004	16.3	15.9	16.0	18.2	19.7	17.1	18.1	15.2	17.4	16.7
2005	16.7	16.5	16.9	18.4	19.9	16.9	18.4	15.5	17.2	17.2
2006	17.1	16.3	16.9	18.8	19.8	16.9	18.9	15.5	17.2	17.5
2007	16.9	16.9	17.4	18.8	20.0	17.5	19.8	15.8	18.9	17.7
2008	17.4	17.5	18.0	18.8	20.1	17.3	19.7	16.1	18.5	18.1



Table L-8

## MY1975 to MY2008 All Adjusted Composite Fuel Economy by Marketing Group

YEAR	GM	Ford	Chrysler	Toyota	Honda	Nissan	HK	VW	BMW	All
1975	12.7	11.7	12.8	18.4	26.7	21.1		22.6	14.7	13.1
1976	13.7	13.5	13.7	20.5	27.8	22.4		23.4	15.6	14.2
1977	14.6	14.1	13.6	23.6	30.2	22.7		24.6	16.9	15.1
1978	15.2	15.2	14.9	21.9	28.6	22.6		23.1	16.4	15.8
1979	15.3	15.0	15.8	19.5	24.7	22.3		23.9	16.7	15.9
1980	18.1	18.0	18.2	22.1	24.8	25.4		26.0	21.3	19.2
1981	19.3	18.9	20.8	25.4	26.2	25.5		28.6	21.8	20.5
1982	20.1	19.4	20.9	24.8	28.4	25.5		27.4	21.6	21.1
1983	19.6	19.2	22.0	26.0	30.0	27.0		24.5	21.6	21.0
1984	20.0	19.9	21.0	25.2	29.9	26.0		23.6	23.0	21.0
1985	20.5	20.3	20.8	25.6	28.8	24.1		24.5	21.7	21.3
1986	21.4	20.7	21.0	24.9	28.5	23.3	29.5	24.2	21.2	21.8
1987	21.5	20.7	20.8	25.3	27.7	23.5	29.0	23.5	20.3	22.0
1988	21.3	20.8	20.8	24.9	26.7	23.6	28.7	24.8	18.0	21.9
1989	20.9	20.6	20.2	24.2	26.2	23.8	27.7	24.6	18.2	21.4
1990	20.6	20.2	20.1	23.2	25.4	23.0	27.6	23.4	18.3	21.2
1991	20.8	20.5	20.1	22.9	25.2	23.0	27.2	23.9	19.1	21.2
1992	20.3	19.9	19.7	22.2	25.7	23.5	25.8	23.9	19.9	20.8
1993	20.3	20.6	19.6	22.1	26.5	22.5	25.6	21.3	20.8	20.9
1994	20.0	20.0	18.4	21.7	25.9	22.5	26.9	23.0	20.7	20.4
1995	19.8	20.2	19.0	22.2	26.5	21.5	24.9	23.1	20.8	20.5
1996	20.4	19.5	18.3	22.4	25.4	22.7	25.3	22.9	22.3	20.4
1997	20.1	19.0	18.3	22.1	25.2	21.7	24.2	23.0	21.0	20.1
1998	20.1	18.9	18.0	22.3	25.0	22.1	23.9	23.2	20.7	20.1
1999	19.5	18.8	17.6	22.0	23.9	21.6	23.8	22.7	20.6	19.7
2000	19.5	18.8	18.2	21.2	23.8	19.7	23.2	22.8	19.9	19.8
2001	19.4	18.5	17.7	21.3	24.0	19.4	23.4	22.4	19.0	19.6
2002	18.8	18.4	17.6	20.9	23.9	20.1	22.3	23.0	20.1	19.4
2003	18.7	18.1	17.9	21.6	23.3	20.4	21.7	23.2	20.4	19.6
2004	18.9	17.5	17.7	21.2	23.1	19.4	21.3	21.0	20.2	19.3
2005	19.2	18.5	18.2	22.7	23.1	20.1	21.2	21.2	20.2	19.9
2006	19.6	18.4	18.1	22.4	23.0	20.0	22.3	22.7	20.8	20.1
2007	19.2	19.3	18.4	23.3	23.3	21.3	22.9	21.6	21.3	20.6
2008	19.6	19.0	18.9	23.4	23.6	21.2	22.6	21.0	21.2	20.8

Table L-9 MY1975 to MY2008 Cars LAB 55/45 Fuel Economy by Marketing Group

YEAR	GM	Ford	Chrysler	Toyota	Honda	Nissan	HK	VW	BMW	All
1975	15.1	14.2	15.4	21.2	31.4	25.2		26.4	17.2	15.8
1976	16.7	16.9	16.6	25.0	32.9	26.8		27.5	18.4	17.5
1977	17.8	16.9	16.4	28.8	36.2	27.2		28.8	19.8	18.4
1978	19.1	18.9	19.2	27.0	34.0	27.0		27.2	19.2	20.0
1979	19.3	19.4	21.1	23.9	29.0	26.6		28.6	19.5	20.3
1980	22.0	22.7	22.9	27.4	28.9	31.1		30.8	25.0	23.5
1981	23.3	23.7	26.2	31.1	30.6	30.4		34.1	25.6	25.1
1982	24.4	24.9	26.9	30.5	33.2	30.5		32.9	25.4	26.1
1983	23.6	24.1	28.3	31.7	35.2	32.5		30.0	25.3	25.7
1984	24.4	25.5	28.4	32.8	35.1	31.6		28.5	27.0	26.3
1985	25.6	26.1	28.2	32.1	33.7	29.4		29.6	25.4	26.9
1986	27.1	26.7	28.7	32.3	33.5	30.2	34.9	29.1	25.0	28.0
1987	27.3	26.7	27.7	33.0	32.8	29.4	34.5	28.4	23.9	28.2
1988	28.2	27.1	28.4	32.7	31.8	30.7	34.3	29.6	21.2	28.6
1989	27.5	27.1	28.0	31.9	31.2	30.2	33.1	29.6	21.6	28.2
1990	27.3	26.7	27.4	30.4	30.3	28.3	33.1	28.4	21.7	27.8
1991	27.2	27.4	27.5	30.6	30.4	29.0	32.7	29.1	22.7	28.0
1992	26.7	27.0	27.7	28.9	31.0	29.9	31.2	28.8	23.8	27.6
1993	27.3	27.7	27.9	28.9	32.2	29.1	31.1	26.7	24.9	28.1
1994	27.5	27.1	26.2	29.0	32.1	29.8	32.7	27.9	24.9	28.0
1995	27.3	27.6	28.2	30.0	32.9	29.2	30.9	28.3	25.1	28.3
1996	27.8	26.6	27.2	29.5	31.9	30.2	31.8	27.9	27.0	28.3
1997	28.1	27.0	27.2	29.8	32.2	29.6	31.0	28.3	25.4	28.4
1998	27.5	27.5	28.3	30.2	32.0	30.2	30.7	28.5	25.1	28.5
1999	27.4	27.4	27.0	30.4	30.9	29.6	30.6	28.0	25.2	28.2
2000	27.6	27.1	27.6	30.5	31.0	28.0	30.0	28.5	24.6	28.2
2001	28.1	26.9	27.7	31.3	32.2	28.3	30.7	28.2	24.7	28.5
2002	28.5	27.2	27.3	30.7	32.0	28.9	30.3	28.8	26.0	28.8
2003	28.4	26.9	28.6	32.2	32.7	27.9	30.1	29.2	26.6	28.9
2004	28.9	26.2	28.8	32.4	32.7	28.2	29.1	28.3	26.2	29.0
2005	28.8	27.4	28.2	34.5	32.9	29.4	29.9	28.3	26.9	29.7
2006	28.3	27.4	25.6	34.2	33.5	29.1	30.6	29.6	27.0	29.3
2007	28.6	28.3	27.1	34.9	33.4	31.6	32.7	28.3	27.3	30.4
2008	28.2	27.4	27.1	35.6	33.4	32.0	31.7	28.2	27.3	30.4

Table L-10

## MY1975 to MY2008 Wagons LAB 55/45 Fuel Economy by Marketing Group

YEAR	GM	Ford	Chrysler	Toyota	Honda	Nissan	HK	VW	BMW	All
1975	14.6	14.1	15.9	22.8		20.9		27.2		16.1
1976	15.6	16.5	17.0	24.6	29.4	27.4		27.9		17.3
1977	16.9	16.4	16.6	27.8	31.9	27.1		28.7		18.0
1978	17.9	18.6	17.7	25.5	31.5	25.5		25.7		19.2
1979	17.8	19.9	18.3	24.9	29.9	27.9		25.0		19.7
1980	20.2	23.0	19.3	27.4	32.5	32.2		40.1		23.6
1981	21.1	25.4	25.1	29.1	33.7	31.4		40.6		25.6
1982	21.7	25.4	27.2	29.3	36.7	32.0		29.8		25.3
1983	22.8	25.8	27.4	34.8	36.7	34.6		30.6		27.2
1984	24.2	26.1	28.1	33.9	36.1	35.1		24.8		26.4
1985	24.4	26.8	27.0	35.1	34.8	30.0		25.9		27.5
1986	25.4	27.3	26.7	32.1	34.6	28.2		22.8		27.1
1987	25.7	26.7	26.8	32.6	34.2	27.8		26.7		27.2
1988	26.5	26.5	29.1	31.5	34.2	28.0		31.0		27.6
1989	26.0	25.8	31.0	30.6	34.7	32.3		29.3		26.9
1990	26.3	25.3	32.5	29.9	35.2	33.5		28.3		26.7
1991	25.5	28.6		30.8	28.7			26.9		28.0
1992	25.1	28.3		28.9	27.1			26.7	23.2	27.5
1993	26.7	31.0	27.4	29.7	27.6			23.7	24.3	29.6
1994	27.2	30.8		29.5	29.0			23.6	23.5	29.4
1995	27.6	30.8		30.8	29.0			23.7	24.4	29.6
1996	28.0	27.5		30.6	28.5		30.2	27.6		27.7
1997	33.5	29.2			27.2		30.4	24.6		28.9
1998	33.9	27.5					29.5	25.9		28.3
1999	32.4	27.2					28.9	26.5	23.6	27.7
2000	28.8	27.6					28.9	25.0	24.5	27.7
2001	28.9	26.9	27.0					24.2	24.9	26.9
2002	27.8	27.8	25.4					27.7	25.5	26.7
2003	34.0	27.9	25.6	35.2				28.4	25.6	29.1
2004	34.6	26.3	24.6	36.1				27.6	25.8	27.8
2005	33.7	27.9	24.1	37.0				29.2	25.7	28.0
2006	31.5	27.8	25.2	36.5				29.6	26.4	28.4
2007	31.3	27.6	24.8	36.5	39.8		27.4	29.5	26.7	28.6
2008	33.2	25.0	25.2	33.5	39.9		27.7	29.5	25.8	29.6

Table L-11 MY1975 to MY2008 Cars and Wagons LAB 55/45 Fuel Economy by Marketing Group

YEAR	GM	Ford	Chrysler	Toyota	Honda	Nissan	HK	VW	BMW	All
1975	15.1	14.2	15.5	22.0	31.4	25.0		26.5	17.2	15.8
1976	16.6	16.8	16.6	25.0	32.6	26.9		27.5	18.4	17.5
1977	17.7	16.8	16.4	28.7	35.5	27.2		28.8	19.8	18.3
1978	19.0	18.9	18.9	26.8	33.7	26.8		27.2	19.2	19.9
1979	19.1	19.5	20.8	24.0	29.0	26.8		28.6	19.5	20.3
1980	21.9	22.7	22.6	27.4	29.2	31.2		31.2	25.0	23.5
1981	23.2	23.9	26.1	30.9	30.8	30.5		34.2	25.6	25.1
1982	24.2	24.9	27.0	30.4	33.4	30.7		32.8	25.4	26.0
1983	23.5	24.3	28.2	32.6	35.3	32.7		30.0	25.3	25.9
1984	24.4	25.6	28.4	32.9	35.2	31.9		28.4	27.0	26.3
1985	25.5	26.2	28.1	32.8	33.8	29.5		29.5	25.4	27.0
1986	27.0	26.8	28.6	32.3	33.6	29.9	34.9	29.0	25.0	27.9
1987	27.2	26.7	27.7	32.9	32.8	29.3	34.5	28.4	23.9	28.1
1988	28.1	27.0	28.5	32.7	31.8	30.6	34.3	29.7	21.2	28.6
1989	27.4	27.0	28.0	31.8	31.3	30.2	33.1	29.6	21.6	28.1
1990	27.3	26.6	27.4	30.4	30.4	28.4	33.1	28.4	21.7	27.8
1991	27.1	27.5	27.5	30.6	30.3	29.0	32.7	29.1	22.7	28.0
1992	26.6	27.1	27.7	28.9	30.9	29.9	31.2	28.7	23.8	27.6
1993	27.3	28.0	27.9	29.0	32.2	29.1	31.1	26.6	24.9	28.2
1994	27.5	27.4	26.2	29.1	32.1	29.8	32.7	27.8	24.9	28.0
1995	27.3	27.9	28.2	30.0	32.8	29.2	30.9	28.2	25.1	28.3
1996	27.8	26.7	27.2	29.5	31.8	30.2	31.7	27.8	27.0	28.3
1997	28.1	27.2	27.2	29.8	32.1	29.6	30.9	28.1	25.4	28.4
1998	27.6	27.5	28.3	30.2	32.0	30.2	30.6	28.4	25.1	28.5
1999	27.4	27.4	27.0	30.4	30.9	29.6	30.5	27.9	25.1	28.2
2000	27.6	27.2	27.6	30.5	31.0	28.0	29.9	28.2	24.6	28.2
2001	28.1	26.9	27.5	31.3	32.2	28.3	30.7	27.8	24.7	28.4
2002	28.5	27.2	26.9	30.7	32.0	28.9	30.3	28.7	26.0	28.6
2003	28.6	26.9	27.7	32.4	32.7	27.9	30.1	29.1	26.5	28.9
2004	29.1	26.2	27.4	32.7	32.7	28.2	29.1	28.2	26.2	28.9
2005	29.0	27.4	26.6	34.7	32.9	29.4	29.9	28.4	26.9	29.5
2006	28.6	27.4	25.5	34.5	33.5	29.1	30.6	29.6	27.0	29.2
2007	28.8	28.3	26.3	34.9	33.9	31.6	32.4	28.4	27.2	30.3
2008	28.7	27.3	26.5	35.5	33.8	32.0	31.5	28.3	27.2	30.3

Table L-12

## MY1975 to MY2008 Vans LAB 55/45 Fuel Economy by Marketing Group

YEAR	GM	Ford	Chrysler	Toyota	Honda	Nissan	HK	VW	BMW	All
1975	14.4	12.6	12.6	20.5				20.7		13.1
1976	14.0	13.4	14.2					19.9		13.9
1977	15.0	15.5	13.8					22.2		14.7
1978	14.1	15.0	13.4					20.0		14.2
1979	14.7	12.1	13.8					18.7		13.5
1980	16.7	16.2	16.6					19.0		16.6
1981	18.0	16.8	17.4					18.5		17.5
1982	17.9	16.2	17.7					21.7		17.3
1983	18.9	16.3	18.0					19.3		17.7
1984	18.2	16.6	20.2	27.0				20.7		18.9
1985	18.7	16.2	21.0	26.6				21.3		19.5
1986	19.4	19.7	22.0	26.3				19.2		20.6
1987	19.8	19.6	22.3	25.5		22.4		18.9		20.9
1988	20.2	19.4	23.0	25.8		22.3		19.9		21.2
1989	20.2	20.0	22.6	25.9		22.2		20.8		21.1
1990	20.7	19.5	23.0			25.4		20.8		21.2
1991	20.8	19.9	22.8	22.9		26.0		20.9		21.4
1992	20.8	19.9	22.7	22.3		25.6				21.5
1993	20.7	20.9	23.6	21.9		21.8		21.0		21.9
1994	21.0	20.0	22.4	22.0		22.7		20.1		21.5
1995	20.6	21.6	23.0	22.6	25.5	23.0		19.6		21.8
1996	21.5	21.4	22.8	22.4	28.5	22.9				22.2
1997	21.9	20.7	22.7	22.3	24.9	22.6		18.5		22.1
1998	22.2	22.3	23.3	24.2	27.0	22.7				22.7
1999	22.0	20.9	23.0	24.1	24.1	23.1		19.1		22.3
2000	22.1	21.8	23.4	24.1	23.9	22.8		19.0		22.8
2001	22.9	18.5	23.4	24.7	24.0	22.6		20.7		22.1
2002	22.3	22.1	23.8	24.7	24.2	22.6	20.0	20.9		23.0
2003	23.2	22.4	24.5	24.7	24.2		20.0	20.9		23.5
2004	23.1	21.8	24.5	25.4	24.2	24.6	21.1			23.7
2005	22.6	23.5	24.3	24.7	26.0	24.7	21.3			24.0
2006	22.9	22.7	24.4	24.8	26.1	24.9	23.8			24.3
2007	22.6	24.3	24.3	26.1	24.7	24.5	23.8			24.3
2008	20.9	24.1	24.6	26.0	25.3	24.5	23.8			24.5

Table L-13

## MY1975 to MY2008 SUVs LAB 55/45 Fuel Economy by Marketing Group

YEAR	GM	Ford	Chrysler	Toyota	Honda	Nissan	HK	VW	BMW	All
1975	11.8	10.6	14.6	12.0						13.0
1976	13.1	13.7	15.0	10.9						13.8
1977	14.7	14.5	15.8	13.6						15.1
1978	14.0	13.2	15.6	12.7						14.4
1979	11.3	11.0	15.4	13.8						12.6
1980	14.5	14.0	16.8	13.8						15.5
1981	16.2	15.1	18.4	14.3						16.8
1982	19.3	14.8	18.5	14.2						17.6
1983	20.7	15.3	18.4	14.1						19.1
1984	20.5	18.3	18.3	17.3						19.3
1985	20.7	18.8	18.3	21.1						19.8
1986	19.7	19.8	19.3	23.3						20.2
1987	19.9	20.4	19.9	22.7		18.7				20.6
1988	19.9	20.1	19.3	20.3		18.5				20.4
1989	20.4	19.2	19.3	19.7		19.0				20.0
1990	19.9	18.6	19.9	19.5		19.5				19.8
1991	21.0	20.1	19.5	18.5		19.5				20.3
1992	19.9	20.0	19.9	17.0		19.6				19.9
1993	20.1	20.1	19.5	17.4		19.4				19.9
1994	20.0	20.0	19.3	17.4	20.2	18.6				19.7
1995	19.8	19.4	19.3	18.5		19.1	24.3			19.6
1996	20.2	19.5	19.3	22.7	19.4	19.8	23.4			20.0
1997	19.7	18.7	19.9	22.9	24.7	19.6	23.7			20.1
1998	20.7	18.7	19.1	22.9	25.4	19.5	24.4			20.1
1999	20.2	18.7	19.1	22.7	25.7	19.5	24.4			20.1
1999	19.9	18.8	19.2	22.4	26.0	19.6	23.5		17.5	20.1
2000	19.7	21.2	19.2	22.5	25.3	19.8	23.8		19.2	20.8
2001	19.9	20.1	19.5	22.6	26.3	19.9	24.0		20.1	20.6
2002	19.7	19.5	20.7	22.4	25.0	21.8	22.6	18.0	20.0	20.8
2003	20.0	19.6	20.4	22.9	24.7	20.3	22.9	18.7	21.5	20.9
2004	20.7	21.3	20.0	23.4	24.5	21.3	23.4	19.1	21.3	21.6
2005	21.5	21.1	20.0	24.9	24.9	21.4	23.6	19.1	21.2	22.1
2006	21.2	22.2	21.5	24.8	25.7	22.3	25.2	19.6	23.5	22.7
2007	22.0	23.4	22.9	24.7	25.7	22.5	24.8	19.8	23.0	23.3
2008										

Table L-14 MY1975 to MY2008 Pickups LAB 55/45 Fuel Economy by Marketing Group

YEAR	GM	Ford	Chrysler	Toyota	Honda	Nissan	HK	VW	BMW	All
1975	14.3	12.6	13.0	21.3		23.6				14.0
1976	14.6	13.9	14.0	22.1		24.5				14.6
1977	15.2	16.0	14.5	27.2		25.0				16.0
1978	14.7	15.9	14.5	24.6		25.6				15.7
1979	15.2	14.8	15.0	19.5		23.2				15.5
1980	18.5	18.2	19.8	21.5		25.1		31.3		19.4
1981	20.0	19.6	19.9	26.5		27.7		36.9		21.0
1982	21.9	18.9	21.2	25.6		27.8		39.2		21.7
1983	21.3	21.1	23.4	25.5		27.4		32.8		22.2
1984	20.7	21.0	19.4	25.1		26.2				21.5
1985	20.4	20.3	18.6	27.0		25.7				21.4
1986	20.8	21.7	20.2	26.4		24.7				22.2
1987	21.3	22.1	21.2	26.6		25.1				22.5
1988	20.4	21.6	20.8	25.1		24.7				21.5
1989	20.5	21.1	19.9	23.5		24.8				21.2
1990	19.2	21.3	19.1	23.1		27.1				20.7
1991	21.4	21.4	18.8	23.8		26.9				21.7
1992	20.3	20.8	19.2	23.7		26.7				20.9
1993	20.2	21.3	18.9	23.8		26.4				21.1
1994	20.0	21.7	18.8	24.3		25.6				21.0
1995	20.2	20.5	17.8	23.3		24.9				20.4
1996	21.3	21.4	17.4	23.6		25.2				20.8
1997	20.5	21.2	17.7	20.4		24.9				20.4
1998	21.1	21.0	18.0	23.7		25.5				20.7
1999	19.8	20.5	17.7	23.2		23.3				19.9
2000	20.8	20.6	18.4	20.8		21.8				20.5
2001	20.4	19.9	17.3	21.2		22.2				19.6
2002	19.1	20.1	17.9	20.9		22.0				19.5
2003	20.1	20.1	18.2	21.0		22.4				19.9
2004	20.0	19.4	17.9	20.6		23.2				19.6
2005	20.4	19.2	18.2	21.6		19.4				19.7
2006	20.7	19.0	19.0	21.7	21.4	19.8				20.1
2007	20.3	19.6	19.3	21.3	21.4	20.1				20.2
2008	21.0	19.7	19.4	20.8	21.4	18.6				20.2

Table L-15 MY1975 to MY2008 Trucks LAB 55/45 Fuel Economy by Marketing Group

YEAR	GM	Ford	Chrysler	Toyota	Honda	Nissan	HK	VW	BMW	All
1975	14.1	12.6	13.2	18.9		23.6		20.7		13.7
1976	14.3	13.8	14.3	18.8		24.5		19.9		14.4
1977	15.1	15.8	14.5	22.9		25.0		22.2		15.6
1978	14.5	15.6	14.4	21.3		25.6		20.0		15.2
1979	14.5	14.0	14.7	19.2		23.2		18.7		14.7
1980	17.9	17.5	18.2	21.4		25.1		25.2		18.6
1981	19.4	18.9	18.8	26.2		27.7		29.5		20.1
1982	21.0	17.9	19.5	25.2		27.8		27.8		20.5
1983	20.7	19.7	20.7	25.0		27.4		20.3		20.9
1984	20.2	19.8	19.4	24.9		26.2		20.7		20.5
1985	20.2	19.3	19.6	26.5		25.7		21.3		20.6
1986	20.2	21.0	20.7	26.1		24.7		19.2		21.4
1987	20.5	21.2	21.3	25.9		23.5		18.9		21.6
1988	20.2	20.9	21.4	24.4		22.7		19.9		21.2
1989	20.4	20.5	21.0	23.2		23.7		20.8		20.9
1990	19.7	20.4	21.4	21.8		25.3		20.8		20.7
1991	21.2	20.7	21.1	22.4		24.8		20.9		21.3
1992	20.3	20.4	21.3	21.9		24.0				20.8
1993	20.3	20.9	21.2	22.1		23.7		21.0		21.0
1994	20.2	20.9	20.5	22.0	20.2	22.9		20.1		20.8
1995	20.1	20.7	20.1	21.2	25.5	22.4	24.3	19.6		20.5
1996	20.8	20.8	20.2	23.1	22.5	22.9	23.4			20.8
1997	20.4	20.2	20.2	22.6	24.7	22.3	23.7	18.5		20.6
1998	21.2	20.3	20.0	23.4	25.5	22.3	24.4			20.9
1999	20.3	19.9	19.9	23.0	25.2	21.2	24.4	19.1		20.5
2000	20.7	20.1	20.4	22.0	25.0	20.8	23.5	19.0	17.5	20.8
2001	20.4	20.2	19.5	22.3	24.7	20.7	23.8	20.7	19.2	20.6
2002	19.8	20.3	20.0	22.2	25.3	20.7	22.8	20.9	20.1	20.6
2003	20.2	20.1	20.9	22.0	24.8	21.9	21.9	20.2	20.0	20.9
2004	20.2	19.7	19.8	22.7	24.6	21.2	22.5	18.7	21.5	20.8
2005	20.8	20.6	20.9	23.1	24.9	20.9	22.8	19.1	21.3	21.4
2006	21.3	20.3	21.0	23.7	24.8	21.0	23.6	19.1	21.2	21.8
2007	20.9	21.0	21.6	23.7	25.1	21.8	24.9	19.6	23.5	22.1
2008	21.6	21.8	22.5	23.7	25.1	21.5	24.6	19.8	23.0	22.5



Table L-16

## MY1975 to MY2008 All LAB 55/45 Fuel Economy by Marketing Group

YEAR	GM	Ford	Chrysler	Toyota	Honda	Nissan	HK	VW	BMW	All
1975	14.9	13.8	15.0	21.6	31.4	24.7		26.4	17.2	15.3
1976	16.1	15.9	16.1	24.0	32.6	26.3		27.4	18.4	16.7
1977	17.2	16.5	16.0	27.7	35.5	26.7		28.8	19.8	17.7
1978	17.9	17.8	17.5	25.7	33.7	26.5		27.1	19.2	18.6
1979	18.0	17.6	18.6	22.9	29.0	26.2		28.0	19.5	18.7
1980	21.3	21.2	21.4	25.9	29.2	29.8		30.5	25.0	22.5
1981	22.6	22.2	24.5	29.9	30.8	30.0		33.5	25.6	24.1
1982	23.5	22.7	24.5	29.1	33.4	30.0		32.2	25.4	24.7
1983	22.9	22.5	25.8	30.5	35.3	31.7		28.7	25.3	24.6
1984	23.5	23.4	24.7	29.7	35.2	30.5		27.7	27.0	24.6
1985	24.0	23.8	24.4	30.0	33.8	28.4		28.8	25.4	25.0
1986	25.2	24.4	24.8	29.4	33.6	27.5	34.9	28.5	25.0	25.7
1987	25.3	24.4	24.6	30.0	32.8	27.8	34.5	27.8	23.9	25.9
1988	25.2	24.7	24.7	29.6	31.8	28.1	34.3	29.5	21.2	25.9
1989	24.8	24.5	24.1	28.9	31.3	28.4	33.1	29.3	21.6	25.4
1990	24.5	24.1	23.9	27.8	30.4	27.5	33.1	28.0	21.7	25.2
1991	24.8	24.5	24.1	27.5	30.3	27.6	32.7	28.6	22.7	25.4
1992	24.2	23.9	23.7	26.8	30.9	28.2	31.2	28.7	23.8	24.9
1993	24.3	24.8	23.5	26.7	32.2	27.1	31.1	25.6	24.9	25.1
1994	24.1	24.1	22.2	26.4	31.5	27.3	32.7	27.8	24.9	24.6
1995	23.9	24.3	22.9	27.0	32.4	26.1	30.4	28.0	25.1	24.7
1996	24.7	23.6	22.2	27.4	31.1	27.7	30.9	27.8	27.0	24.8
1997	24.4	23.1	22.2	27.1	31.0	26.6	29.7	28.0	25.4	24.5
1998	24.5	23.0	21.9	27.4	30.9	27.1	29.4	28.4	25.1	24.5
1999	23.8	22.9	21.5	27.1	29.6	26.5	29.3	27.8	25.1	24.1
2000	24.0	23.0	22.3	26.2	29.4	24.3	28.7	28.1	24.3	24.3
2001	23.9	22.7	21.7	26.5	29.9	24.1	29.0	27.7	23.3	24.2
2002	23.2	22.7	21.7	26.0	29.8	25.0	27.8	28.5	24.8	24.1
2003	23.2	22.4	22.3	27.1	29.1	25.4	27.0	28.9	25.2	24.3
2004	23.4	21.7	22.0	26.6	28.9	24.1	26.5	26.1	24.9	24.0
2005	23.9	23.1	22.6	28.8	29.1	25.1	26.6	26.5	25.1	24.8
2006	24.4	23.0	22.5	28.4	28.9	25.0	28.0	28.4	25.8	25.2
2007	23.8	24.1	22.9	29.6	29.3	26.8	28.8	27.0	26.5	25.7
2008	24.3	23.7	23.6	29.7	29.6	26.6	28.4	26.2	26.3	26.0

Table L-17

## MY1975 to MY2008 Cars Inertia Weight by Marketing Group

YEAR	GM	Ford	Chrysler	Toyota	Honda	Nissan	HK	VW	BMW	All
1975	4486	4087	4142	2746	2000	2589		2353	3214	4071
1976	4375	4147	4036	2742	2001	2547		2336	3178	4044
1977	4158	4248	4131	2623	2058	2537		2348	3056	3936
1978	3758	3818	3652	2611	2113	2510		2406	3065	3572
1979	3726	3553	3390	2708	2313	2502		2388	3151	3468
1980	3355	3110	3046	2622	2337	2469		2379	3064	3092
1981	3417	3030	2825	2555	2351	2535		2400	3005	3079
1982	3327	3005	2949	2576	2363	2575		2470	2980	3039
1983	3425	3151	2848	2744	2389	2523		2521	3019	3121
1984	3326	3146	2804	2712	2387	2653		2621	2905	3091
1985	3299	3150	2874	2778	2440	2749		2674	3191	3091
1986	3144	3171	2869	2769	2576	2777	2500	2681	3232	3026
1987	3162	3177	2889	2822	2639	2875	2500	2726	3240	3013
1988	3137	3211	2958	2778	2772	2776	2500	2701	3581	3035
1989	3173	3249	3077	2829	2805	2837	2580	2744	3507	3088
1990	3244	3334	3215	2959	2889	3026	2636	2912	3599	3167
1991	3236	3245	3188	2920	2899	3081	2628	2921	3568	3147
1992	3301	3380	3172	3096	3004	3026	2768	2960	3639	3234
1993	3265	3290	3179	3144	2969	3097	2786	3101	3638	3210
1994	3276	3382	3361	3144	3047	3035	2672	3088	3654	3251
1995	3339	3367	3205	3175	2986	3143	2805	3107	3757	3266
1996	3337	3441	3333	3204	3041	3121	2710	3136	3464	3276
1997	3308	3400	3355	3232	3013	3122	2791	3128	3577	3274
1998	3369	3338	3230	3313	3173	3283	2798	3185	3599	3304
1999	3409	3371	3515	3304	3220	3341	2883	3227	3669	3361
2000	3441	3433	3393	3260	3195	3381	2942	3227	3678	3366
2001	3445	3454	3473	3242	3189	3305	2965	3276	3738	3366
2002	3406	3447	3483	3352	3218	3368	3066	3366	3678	3379
2003	3490	3584	3428	3217	3283	3430	3114	3401	3579	3421
2004	3428	3651	3426	3330	3295	3528	3251	3498	3594	3444
2005	3482	3601	3516	3263	3308	3521	3198	3582	3507	3444
2006	3584	3603	3934	3288	3335	3525	3394	3621	3621	3526
2007	3581	3527	3826	3370	3333	3483	3296	3660	3664	3502
2008	3661	3657	3847	3346	3395	3455	3408	3667	3769	3540

Table L-18

## MY1975 to MY2008 Wagons Inertia Weight by Marketing Group

YEAR	GM	Ford	Chrysler	Toyota	Honda	Nissan	HK	VW	BMW	All
1975	4594	4201	4250	2693		3000		2500		3957
1976	4723	4469	4129	2703	2250	2693		2500		4182
1977	4490	4339	4151	2661	2250	2646		2500		4005
1978	4122	3819	4031	2701	2250	2668		2500		3723
1979	4099	3537	3901	2622	2250	2457		2500		3637
1980	4038	3190	3768	2605	2250	2415		2500		3231
1981	4125	2926	2941	2584	2250	2497		2500		3040
1982	3814	3071	2925	2562	2250	2511		2750		3188
1983	3669	3115	2902	2498	2250	2466		2806		3047
1984	3531	3188	2808	2573	2250	2458		3122		3175
1985	3611	3149	3004	2515	2317	2626		3066		3112
1986	3584	3190	3105	2618	2374	2935		3245		3215
1987	3615	3272	3077	2902	2390	2999		2847		3248
1988	3645	3294	2942	2919	2599	2977		2553		3242
1989	3643	3376	2779	2941	2536	2767		2766		3327
1990	3617	3457	2706	2995	2666	2692		3176		3367
1991	3784	3221		2937	3238			3386		3305
1992	3825	3295		3073	3500			3359	4000	3391
1993	3500	3034	3063	3096	3500			3634	4000	3154
1994	3432	3079		3205	3500			3790	4000	3217
1995	3431	3044		3230	3500			3702	4000	3189
1996	3428	3526		3227	3500		3000	3711		3453
1997	2749	3306			3500		3000	3793		3283
1998	2749	3477					3000	3739		3359
1999	2983	3582					3000	3675	4000	3460
2000	3307	3571					3000	3612	3751	3468
2001	3488	3623	3516					3882	3844	3631
2002	3607	3602	3500					3695	3862	3610
2003	3069	3553	3500	3000				3757	3826	3425
2004	3061	3772	4115	2927				3822	3756	3683
2005	3093	3567	4206	2880				3882	3821	3652
2006	3368	3586	3978	2848				3753	4000	3603
2007	3389	3593	3995	3000	2750		3736	3899	3968	3598
2008	3347	4062	3967	3282	2750		3750	3709	4187	3557

Table L-19

## MY1975 to MY2008 Cars and Wagons Inertia Weight by Marketing Group

YEAR	GM	Ford	Chrysler	Toyota	Honda	Nissan	HK	VW	BMW	All
1975	4494	4103	4155	2718	2000	2606		2371	3214	4058
1976	4398	4187	4053	2735	2021	2568		2343	3178	4059
1977	4183	4256	4136	2628	2085	2555		2358	3056	3944
1978	3786	3818	3712	2622	2126	2534		2410	3065	3588
1979	3759	3551	3444	2701	2308	2494		2389	3151	3485
1980	3383	3118	3095	2620	2330	2461		2385	3064	3101
1981	3444	3011	2839	2557	2343	2530		2403	3005	3076
1982	3368	3013	2946	2575	2354	2568		2478	2980	3054
1983	3445	3146	2854	2663	2380	2516		2526	3019	3112
1984	3345	3150	2804	2697	2380	2633		2631	2905	3099
1985	3322	3150	2881	2708	2432	2738		2684	3191	3093
1986	3173	3173	2882	2761	2565	2801	2500	2689	3232	3041
1987	3191	3188	2897	2831	2633	2882	2500	2730	3240	3031
1988	3158	3218	2957	2786	2770	2786	2500	2689	3581	3047
1989	3191	3259	3073	2836	2800	2836	2580	2744	3507	3099
1990	3255	3343	3214	2961	2884	3025	2636	2922	3599	3176
1991	3248	3243	3188	2921	2913	3081	2628	2935	3568	3154
1992	3310	3373	3172	3096	3015	3026	2768	2974	3649	3240
1993	3271	3258	3178	3142	2977	3097	2786	3122	3647	3207
1994	3279	3351	3361	3145	3055	3035	2672	3103	3661	3250
1995	3340	3335	3205	3177	2995	3143	2805	3124	3761	3263
1996	3339	3447	3333	3204	3046	3121	2728	3156	3464	3282
1997	3302	3393	3355	3232	3019	3122	2800	3147	3577	3274
1998	3362	3347	3230	3313	3173	3283	2803	3203	3599	3306
1999	3405	3383	3515	3304	3220	3341	2888	3253	3681	3365
2000	3439	3441	3393	3260	3195	3381	2946	3252	3681	3369
2001	3445	3465	3483	3242	3189	3305	2965	3324	3741	3380
2002	3407	3457	3487	3352	3218	3368	3066	3395	3683	3391
2003	3473	3582	3448	3200	3283	3430	3114	3442	3586	3421
2004	3415	3660	3623	3295	3295	3528	3251	3534	3596	3462
2005	3462	3599	3756	3223	3308	3521	3198	3607	3509	3463
2006	3562	3602	3949	3236	3335	3525	3394	3627	3628	3534
2007	3566	3529	3883	3362	3289	3483	3321	3679	3674	3510
2008	3627	3671	3883	3342	3346	3455	3428	3671	3777	3541

Table L-20

## MY1975 to MY2008 Vans Inertia Weight by Marketing Group

YEAR	GM	Ford	Chrysler	Toyota	Honda	Nissan	HK	VW	BMW	All
1975	4183	4135	4263	3500				3497		4196
1976	4225	4081	4326					3500		4200
1977	4276	4110	4404					3500		4252
1978	4313	4088	4387					3500		4250
1979	4553	4665	4450					3500		4541
1980	4338	4625	4137					3619		4353
1981	4374	4509	4050					3644		4324
1982	4447	4544	4031					3668		4342
1983	4551	4516	4099					3625		4414
1984	4523	4389	3679	3396				3627		4075
1985	4287	4464	3645	3274				3656		3975
1986	4240	4218	3674	3435				3764		3998
1987	4214	4247	3707	3285		3500		3818		3972
1988	4210	4358	3798	3515		3611		3868		4053
1989	4215	4250	3825	3552		3738		4042		4057
1990	4265	4269	3876			3452		4020		4095
1991	4289	4234	3972	4000		3382		4021		4133
1992	4304	4376	3970	4000		3500				4151
1993	4364	4266	3823	4000		4000		4157		4105
1994	4316	4406	3971	4025		4000		4260		4156
1995	4337	4179	3837	4104	3500	4000		5000		4110
1996	4419	4211	4156	4065	3500	4000				4195
1997	4354	4398	4152	4137	3500	4000		5490		4241
1998	4291	4208	4141	4000	3500	4000				4183
1999	4327	4578	4170	4000	4500	4000		4897		4307
2000	4323	4470	4157	4000	4500	4000		5116		4276
2001	4275	5155	4430	4000	4500	4000		4850		4519
2002	4307	4508	4374	4000	4500	4000	5000	4638		4394
2003	4347	4519	4286	4000	4500		5000	4564		4393
2004	4360	4527	4382	4500	4500	4500	5000			4487
2005	4532	4419	4285	4500	4500	4500	5000			4430
2006	4715	4496	4361	4500	4500	4500	4500			4475
2007	4730	4340	4345	4500	4500	4500	4500			4461
2008	5139	4500	4549	4500	4500	4500	4500			4561

Table L-21

## MY1975 to MY2008 SUVs Inertia Weight by Marketing Group

YEAR	GM	Ford	Chrysler	Toyota	Honda	Nissan	HK	VW	BMW	All
1975	4867	5000	3561	4000						4202
1976	4906	5000	3600	4082						4312
1977	4692	5000	3637	4030						4232
1978	4702	5000	3611	4078						4270
1979	5169	5000	3589	4039						4509
1980	5071	4738	3509	4001						4236
1981	5013	4686	3504	4239						4208
1982	5203	4677	3528	4342						4349
1983	4376	4673	3489	4463						4137
1984	4266	3989	3637	3939						3999
1985	4169	3978	3805	3727						4018
1986	4181	3975	3721	4029						3921
1987	4228	3908	3677	3730		4000				3840
1988	4315	3921	3651	4018		4000				3859
1989	4264	4319	3637	4103		4000				4018
1990	4336	4404	3560	4276		4000				4045
1991	4063	4371	3564	4492		4000				4070
1992	4160	4360	3456	4515		4000				4085
1993	4414	4373	3746	4499		4304				4157
1994	4481	4371	3726	4484	4000	4352				4209
1995	4569	4543	3681	4379		4204	3500			4255
1996	4627	4522	3795	3735	4329	4000	3500			4283
1997	4796	4729	3811	3633	3689	4399	3500			4329
1998	4463	4751	4101	3861	3617	4398	3500			4340
1999	4523	4821	4273	4112	3605	4338	3500			4400
2000	4786	4812	4201	4174	3617	4293	3500		5000	4458
2001	4889	4238	4232	4197	3809	4306	3734		4797	4378
2002	5003	4409	4408	4215	3778	4296	3819		5000	4508
2003	5122	4769	4290	4302	4020	4234	4152	5500	5000	4611
2004	5127	4804	4275	4379	4033	4731	4133	5472	4508	4634
2005	5027	4519	4510	4351	4049	4714	4086	5382	4562	4575
2006	4740	4797	4586	4426	4041	4734	4098	5407	4543	4547
2007	5274	4592	4398	4322	4096	4645	4078	5565	4583	4618
2008	5039	4402	4344	4536	4090	4736	4195	5558	4736	4567

Table L-22

## MY1975 to MY2008 Pickups Inertia Weight by Marketing Group

YEAR	GM	Ford	Chrysler	Toyota	Honda	Nissan	HK	VW	BMW	All
1975	4073	4171	4345	2750		2750				4012
1976	4193	4218	4338	2819		2750				4122
1977	4214	4180	4335	2780		2750				4092
1978	4248	4209	4226	2866		2786				4104
1979	4495	4136	4041	2814		2781				4142
1980	4157	4007	3430	2865		2830		2265		3740
1981	4012	3853	3564	2888		2893		2318		3679
1982	3850	3893	3470	3013		2894		2310		3629
1983	3931	3508	3311	3033		3041		2516		3544
1984	3962	3584	3638	3036		3156				3619
1985	3926	3688	3798	3107		3137				3642
1986	3893	3638	3626	3129		3229				3574
1987	3751	3584	3611	3114		3169				3526
1988	4013	3712	3652	3181		3239				3737
1989	3976	3890	3681	3377		3239				3803
1990	4250	3904	3991	3396		3167				3928
1991	3845	3896	4035	3413		3203				3779
1992	4088	4107	4046	3366		3229				3976
1993	4189	4068	4111	3394		3257				3996
1994	4256	4042	4346	3382		3333				4056
1995	4270	4292	4516	3533		3365				4182
1996	4304	4065	4697	3508		3355				4190
1997	4597	4294	4765	4086		3350				4415
1998	4311	4243	4783	3432		3604				4282
1999	4763	4251	4795	3549		3788				4487
2000	4401	4285	4662	4110		3918				4340
2001	4592	4533	4905	4046		3880				4552
2002	4988	4497	5011	4140		3944				4690
2003	4713	4571	5108	4148		3945				4642
2004	4951	5124	5140	4296		3870				4939
2005	4891	5274	5093	4476		4895				4988
2006	4878	5358	5191	4485	4500	4811				4968
2007	5213	5235	5023	4929	4500	4771				5108
2008	5219	5252	5331	5069	4500	5463				5219

Table L-23

## MY1975 to MY2008 Trucks Inertia Weight by Marketing Group

YEAR	GM	Ford	Chrysler	Toyota	Honda	Nissan	HK	VW	BMW	All
1975	4159	4174	4080	2966		2750		3497		4072
1976	4265	4199	4151	3037		2750		3500		4155
1977	4266	4191	4178	3018		2750		3500		4135
1978	4301	4234	4090	3066		2786		3500		4151
1979	4585	4275	4028	2862		2781		3500		4252
1980	4252	4149	3592	2880		2830		2770		3869
1981	4118	3989	3663	2906		2893		2652		3806
1982	4028	4083	3633	3042		2894		3002		3806
1983	4128	3735	3528	3069		3041		3488		3763
1984	4131	3756	3655	3133		3156		3627		3782
1985	4063	3863	3724	3175		3137		3656		3795
1986	4049	3804	3672	3248		3229		3764		3738
1987	4004	3784	3668	3208		3338		3818		3713
1988	4118	3882	3723	3303		3444		3868		3841
1989	4096	4056	3743	3457		3352		4042		3921
1990	4270	4058	3819	3675		3335		4020		4005
1991	3985	4111	3885	3759		3383		4021		3948
1992	4158	4234	3878	3685		3476				4056
1993	4289	4195	3836	3657		3603		4157		4073
1994	4335	4188	3983	3686	4000	3718		4260		4125
1995	4388	4298	3936	3895	3500	3741	3500	5000		4184
1996	4455	4251	4172	3618	3969	3694	3500			4225
1997	4624	4456	4211	3676	3653	3841	3500	5490		4344
1998	4357	4431	4306	3713	3605	3985	3500			4283
1999	4608	4518	4362	3925	3843	4112	3500	4897		4412
2000	4521	4521	4275	4117	4036	4104	3500	5116	5000	4375
2001	4685	4496	4523	4123	4095	4157	3734	4850	4797	4463
2002	4922	4455	4562	4168	4092	4163	4147	4638	5000	4546
2003	4869	4660	4545	4230	4162	4164	4378	4766	5000	4586
2004	5002	4932	4576	4383	4148	4567	4333	5472	4508	4710
2005	4926	4833	4561	4413	4179	4752	4325	5382	4562	4668
2006	4795	5009	4645	4459	4227	4746	4186	5407	4543	4665
2007	5222	4868	4519	4531	4242	4667	4161	5565	4583	4741
2008	5112	4743	4581	4668	4215	4910	4257	5558	4736	4742



Table L-24

## MY1975 to MY2008 All Inertia Weight by Marketing Group

YEAR	GM	Ford	Chrysler	Toyota	Honda	Nissan	HK	VW	BMW	All
1975	4427	4120	4141	2748	2000	2640		2375	3214	4060
1976	4370	4190	4074	2773	2021	2610		2350	3178	4079
1977	4199	4238	4144	2685	2085	2595		2366	3056	3982
1978	3896	3937	3815	2694	2126	2580		2420	3065	3715
1979	3926	3749	3613	2733	2308	2541		2433	3151	3655
1980	3493	3374	3207	2672	2330	2531		2420	3064	3228
1981	3537	3297	2981	2621	2343	2596		2437	3005	3202
1982	3488	3277	3125	2677	2354	2637		2539	2980	3202
1983	3579	3346	3029	2754	2380	2603		2618	3019	3257
1984	3495	3347	3076	2845	2380	2748		2702	2905	3262
1985	3494	3348	3175	2889	2432	2845		2747	3191	3271
1986	3363	3401	3202	2959	2565	2981	2500	2723	3232	3238
1987	3383	3401	3222	2966	2633	2984	2500	2777	3240	3221
1988	3442	3435	3313	2942	2770	2955	2500	2709	3581	3283
1989	3474	3518	3405	3004	2800	2956	2580	2774	3507	3351
1990	3559	3595	3529	3132	2884	3109	2636	2972	3599	3426
1991	3498	3569	3512	3173	2913	3170	2628	2978	3568	3410
1992	3587	3725	3576	3242	3015	3132	2768	2974	3649	3512
1993	3632	3620	3567	3285	2977	3261	2786	3271	3647	3519
1994	3698	3725	3768	3317	3084	3249	2672	3106	3661	3603
1995	3758	3737	3619	3369	3016	3381	2847	3147	3761	3613
1996	3765	3821	3882	3322	3099	3280	2783	3156	3464	3659
1997	3839	3944	3914	3371	3096	3375	2896	3168	3577	3727
1998	3778	3935	3990	3455	3231	3510	2917	3203	3599	3744
1999	3927	3969	4120	3536	3345	3570	2992	3265	3681	3835
2000	3934	3988	3987	3623	3381	3701	3034	3265	3721	3821
2001	4017	4037	4161	3639	3427	3710	3120	3335	3964	3879
2002	4202	4033	4230	3732	3461	3680	3366	3410	3910	3951
2003	4265	4218	4267	3624	3626	3694	3494	3459	3811	3999
2004	4282	4457	4236	3862	3633	4058	3612	3844	3807	4111
2005	4257	4297	4279	3711	3659	4034	3654	3867	3803	4059
2006	4179	4373	4376	3811	3735	4037	3649	3763	3779	4067
2007	4487	4200	4318	3808	3712	3959	3663	3903	3839	4094
2008	4428	4308	4360	3866	3701	4061	3750	4032	3959	4117

Table L-25

## MY1975 to MY2008 Cars LAB 55/45 Ton-MPG by Marketing Group

YEAR	GM	Ford	Chrysler	Toyota	Honda	Nissan	HK	VW	BMW	All
1975	34.1	29.6	32.4	29.2	31.5	33.4		31.1	28.4	32.4
1976	36.5	35.1	33.8	34.4	33.2	34.8		32.2	29.2	35.4
1977	37.2	36.0	34.3	38.3	38.2	35.4		34.6	30.5	36.4
1978	36.2	36.1	35.6	35.9	36.3	34.6		34.0	29.5	35.9
1979	36.2	34.4	35.9	32.7	33.6	33.7		35.8	30.8	35.4
1980	37.0	35.3	35.0	36.2	34.0	38.7		38.6	38.8	36.5
1981	39.9	36.1	37.3	40.0	36.2	38.9		43.1	38.9	38.9
1982	40.9	37.7	40.0	39.5	39.5	40.0		42.9	38.4	40.1
1983	40.5	38.3	40.9	43.6	42.4	41.6		39.1	38.5	40.5
1984	40.9	40.5	40.1	44.7	42.3	42.5		38.6	39.3	41.0
1985	42.4	41.5	40.7	44.8	41.4	40.8		40.8	40.8	41.9
1986	42.9	42.6	41.5	44.8	43.4	42.2	43.7	39.8	40.7	42.6
1987	43.4	42.6	40.1	46.7	43.5	42.4	43.2	39.1	39.1	42.7
1988	44.4	43.6	42.2	45.5	44.4	42.9	43.0	40.3	38.4	43.7
1989	43.8	44.1	43.3	45.2	44.1	42.9	42.9	41.0	37.9	43.7
1990	44.4	44.6	44.0	45.1	44.2	43.0	43.8	41.7	39.1	44.2
1991	44.1	44.6	43.8	44.7	44.4	45.0	43.2	43.1	40.7	44.2
1992	44.1	45.6	44.0	44.6	47.3	45.7	43.2	42.8	43.3	44.8
1993	44.6	45.6	44.4	45.4	48.3	45.3	43.4	41.5	45.5	45.3
1994	45.1	45.9	44.1	45.6	49.3	45.5	43.9	43.2	45.6	45.7
1995	45.6	46.7	45.1	47.6	49.4	46.1	43.6	44.2	47.0	46.3
1996	46.5	45.9	45.3	47.2	48.8	47.4	43.3	44.2	46.7	46.5
1997	46.5	46.0	45.6	48.2	48.9	46.4	43.4	44.8	45.5	46.6
1998	46.4	45.9	45.8	50.3	50.9	49.6	43.0	46.4	45.2	47.3
1999	46.7	46.3	47.4	50.3	50.0	49.5	44.1	45.8	46.1	47.5
2000	47.5	46.7	46.8	49.9	49.8	47.3	44.1	46.8	45.3	47.6
2001	48.4	46.6	48.2	51.5	51.9	46.8	45.5	47.0	46.2	48.3
2002	48.6	47.0	47.7	52.1	51.8	49.1	46.6	49.5	48.0	48.9
2003	49.5	48.1	49.3	52.3	54.4	48.2	46.9	50.4	47.6	49.8
2004	49.5	47.8	49.4	55.3	54.6	50.1	47.4	50.3	47.1	50.4
2005	50.2	49.4	49.4	58.5	55.0	51.8	47.8	51.7	47.3	51.8
2006	50.8	49.6	50.5	58.1	56.9	51.5	51.9	55.0	49.1	52.5
2007	51.3	50.2	52.2	60.9	56.8	55.7	54.0	52.2	50.4	54.4
2008	51.8	50.5	52.4	62.0	57.6	55.9	54.1	52.1	51.8	55.0

Table L-26

## MY1975 to MY2008 Wagons LAB 55/45 Ton-MPG by Marketing Group

YEAR	GM	Ford	Chrysler	Toyota	Honda	Nissan	HK	VW	BMW	All
1975	33.7	30.3	33.7	30.8		31.5		34.1		32.2
1976	36.6	37.0	35.7	33.4	33.1	37.0		34.9		36.2
1977	38.1	35.9	34.7	37.2	36.1	36.2		36.4		36.3
1978	37.0	35.5	35.9	34.9	35.6	34.6		32.4		35.8
1979	36.6	35.4	35.7	32.9	33.7	34.3		31.3		35.8
1980	41.4	36.8	36.4	35.9	36.9	39.0		50.5		38.4
1981	44.1	37.4	36.9	37.7	38.0	39.5		50.7		39.1
1982	41.6	39.2	39.9	37.5	41.6	40.6		41.8		40.4
1983	41.8	40.1	40.0	43.5	41.5	42.7		45.2		41.6
1984	42.6	42.0	39.5	43.8	40.7	43.4		40.4		42.1
1985	43.9	42.5	40.6	44.2	40.5	39.9		39.9		42.7
1986	45.2	43.6	41.6	42.2	41.1	41.6		37.1		43.4
1987	46.2	43.7	41.3	47.3	41.0	41.9		38.4		44.1
1988	48.1	43.8	43.0	46.1	44.6	41.8		39.6		44.6
1989	47.1	43.5	43.2	45.1	44.2	44.7		40.4		44.6
1990	47.4	43.7	44.0	45.0	47.0	45.1		44.7		45.0
1991	48.0	46.3		45.4	46.6			45.5		46.3
1992	47.8	46.8		44.5	47.5			44.7	46.4	46.7
1993	46.4	47.2	42.0	46.3	48.3			43.1	48.5	46.8
1994	46.5	47.8		47.2	50.8			44.7	47.0	47.5
1995	47.1	47.2		49.6	50.9			43.9	48.8	47.3
1996	47.7	48.4		49.3	50.0		45.3	55.0		47.9
1997	46.1	48.2			47.8		45.6	47.0		47.5
1998	46.7	47.7					44.3	48.5		47.4
1999	48.1	48.6					43.4	48.9	47.4	47.9
2000	47.7	49.3					43.4	45.4	46.1	48.0
2001	50.4	48.9	47.5					47.2	47.9	49.0
2002	50.1	49.9	44.5					52.1	49.3	48.4
2003	52.3	49.5	44.9	52.9				55.6	49.1	50.4
2004	53.0	49.7	50.3	52.9				54.2	48.4	51.4
2005	52.6	49.8	50.5	53.3				59.1	49.1	51.4
2006	53.1	49.9	50.0	51.9				55.8	52.9	51.3
2007	53.1	49.8	49.5	54.7	54.8		51.2	57.9	53.1	51.7
2008	55.7	51.1	49.9	54.9	54.9		51.9	54.9	54.0	52.9

Table L-27

## MY1975 to MY2008 Cars and Wagons LAB 55/45 Ton-MPG by Marketing Group

YEAR	GM	Ford	Chrysler	Toyota	Honda	Nissan	HK	VW	BMW	All
1975	34.0	29.7	32.5	30.0	31.5	33.3		31.5	28.4	32.3
1976	36.5	35.4	34.1	34.3	33.2	35.1		32.3	29.2	35.5
1977	37.2	36.0	34.4	38.2	37.9	35.5		34.7	30.5	36.4
1978	36.2	36.1	35.6	35.8	36.3	34.6		33.9	29.5	35.9
1979	36.3	34.5	35.9	32.7	33.6	33.8		35.8	30.8	35.4
1980	37.1	35.4	35.1	36.2	34.2	38.7		39.2	38.8	36.6
1981	40.0	36.3	37.2	39.8	36.3	38.9		43.4	38.9	38.9
1982	41.0	37.9	40.0	39.3	39.7	40.1		42.9	38.4	40.1
1983	40.7	38.5	40.8	43.6	42.3	41.7		39.2	38.5	40.7
1984	41.1	40.7	40.1	44.6	42.2	42.6		38.6	39.3	41.1
1985	42.5	41.6	40.7	44.6	41.4	40.7		40.7	40.8	42.0
1986	43.0	42.7	41.5	44.7	43.3	42.1	43.7	39.8	40.7	42.6
1987	43.6	42.7	40.2	46.7	43.4	42.4	43.2	39.1	39.1	42.8
1988	44.6	43.6	42.2	45.6	44.4	42.8	43.0	40.2	38.4	43.7
1989	43.9	44.0	43.3	45.2	44.1	42.9	42.9	41.0	37.9	43.8
1990	44.5	44.5	44.0	45.1	44.2	43.0	43.8	41.8	39.1	44.2
1991	44.2	44.7	43.8	44.7	44.5	45.0	43.2	43.2	40.7	44.3
1992	44.2	45.7	44.0	44.6	47.3	45.7	43.2	42.9	43.4	44.9
1993	44.7	45.8	44.4	45.5	48.3	45.3	43.4	41.6	45.6	45.4
1994	45.1	46.1	44.1	45.6	49.3	45.5	43.9	43.3	45.6	45.7
1995	45.7	46.7	45.1	47.7	49.5	46.1	43.6	44.2	47.1	46.4
1996	46.5	46.1	45.3	47.3	48.8	47.4	43.4	44.6	46.7	46.5
1997	46.4	46.2	45.6	48.2	48.8	46.4	43.5	44.9	45.5	46.7
1998	46.4	46.1	45.8	50.3	50.9	49.6	43.0	46.4	45.2	47.3
1999	46.7	46.4	47.4	50.3	50.0	49.5	44.1	46.0	46.2	47.5
2000	47.5	46.8	46.8	49.9	49.8	47.3	44.1	46.7	45.3	47.6
2001	48.4	46.8	48.0	51.5	51.9	46.8	45.5	47.0	46.2	48.4
2002	48.6	47.1	46.9	52.1	51.8	49.1	46.6	49.7	48.0	48.9
2003	49.7	48.2	48.1	52.3	54.4	48.2	46.9	51.0	47.6	49.9
2004	49.7	47.9	49.6	55.1	54.6	50.1	47.4	50.7	47.2	50.5
2005	50.3	49.4	49.8	57.9	55.0	51.8	47.8	52.3	47.3	51.8
2006	51.0	49.6	50.3	57.3	56.9	51.5	51.9	55.0	49.2	52.4
2007	51.5	50.2	51.3	60.7	56.6	55.7	53.8	52.7	50.5	54.2
2008	52.2	50.5	51.7	61.5	57.4	55.9	54.0	52.3	51.8	54.8

Table L-28

## MY1975 to MY2008 Vans LAB 55/45 Ton-MPG by Marketing Group

YEAR	GM	Ford	Chrysler	Toyota	Honda	Nissan	HK	VW	BMW	All
1975	30.9	26.4	27.4	35.9				36.2		28.1
1976	30.6	28.0	30.8					34.9		29.7
1977	32.4	32.2	30.5					38.9		31.7
1978	31.1	31.2	29.7					35.0		30.8
1979	33.9	28.6	31.0					32.9		31.3
1980	36.4	37.9	34.6					34.4		36.4
1981	39.5	38.3	35.6					33.8		38.0
1982	39.8	37.1	35.9					42.1		38.0
1983	43.4	37.1	37.3					35.3		39.7
1984	41.3	36.8	38.4	45.9				37.5		39.3
1985	40.5	36.4	38.9	43.6				39.0		39.3
1986	41.4	41.8	40.8	45.2				36.2		41.5
1987	42.0	42.0	41.8	41.8		39.1		36.2		41.7
1988	42.8	42.5	43.9	45.4		40.3		38.6		43.2
1989	42.9	42.8	43.7	45.9		41.4		42.2		43.2
1990	44.3	41.8	44.8			43.9		41.9		43.8
1991	44.9	42.3	45.6	45.7		44.0		42.1		44.5
1992	45.1	43.6	45.4	44.6		44.8				44.8
1993	45.3	44.6	45.3	43.8		43.5		43.7		45.0
1994	45.5	44.2	44.8	44.3		45.4		42.8		44.9
1995	44.9	45.3	44.5	46.3	44.7	46.0		48.9		45.0
1996	47.5	45.2	47.6	45.5	49.8	45.8				46.8
1997	47.7	45.5	47.3	46.0	43.6	45.2		50.8		46.9
1998	47.6	46.8	48.4	48.4	47.2	45.4				47.7
1999	47.7	48.1	48.0	48.2	54.2	46.1		46.7		48.1
2000	48.0	48.8	48.9	48.2	53.8	45.7		48.5		48.9
2001	49.3	47.8	52.0	49.5	54.0	45.1		50.0		50.3
2002	48.6	49.8	52.4	49.5	54.5	45.1	50.0	48.3		50.9
2003	50.5	50.7	52.6	49.5	54.5		50.0	47.6		51.7
2004	50.4	49.3	53.6	57.3	54.5	55.3	52.9			53.4
2005	51.5	52.1	52.0	55.6	58.6	55.5	53.3			53.2
2006	54.0	51.2	53.1	55.8	58.7	56.1	53.5			54.4
2007	53.5	52.8	52.8	58.9	55.5	55.0	53.5			54.3
2008	53.8	54.2	56.0	58.6	57.0	55.1	53.5			56.1

Table L-29

## MY1975 to MY2008 SUVs LAB 55/45 Ton-MPG by Marketing Group

YEAR	GM	Ford	Chrysler	Toyota	Honda	Nissan	HK	VW	BMW	All
1975	29.0	26.5	25.8	24.0						27.1
1976	32.2	34.5	26.8	22.3						29.6
1977	34.7	36.3	28.5	28.3						31.8
1978	33.2	33.1	27.9	26.4						30.6
1979	29.2	27.5	27.6	27.8						28.3
1980	36.9	33.2	29.8	27.6						32.9
1981	40.7	35.8	32.4	30.3						35.4
1982	51.4	34.9	32.6	30.9						39.2
1983	45.7	36.2	31.9	31.6						40.1
1984	43.9	36.8	33.7	35.1						39.1
1985	43.3	37.8	35.3	41.2						40.3
1986	41.4	39.4	36.6	47.8						39.9
1987	41.8	40.0	37.1	43.4		37.4				39.7
1988	42.8	39.4	35.4	41.4		37.1				39.5
1989	43.3	41.7	35.3	41.1		37.9				40.3
1990	42.7	41.3	35.5	41.8		39.0				40.0
1991	42.5	43.9	34.9	41.8		39.0				41.4
1992	41.2	43.7	34.5	38.7		39.2				40.6
1993	44.1	44.1	36.6	39.1		41.8				41.3
1994	44.6	43.8	35.9	39.0	40.4	40.4				41.6
1995	45.1	44.2	35.5	40.8		40.0	42.7			41.7
1996	46.5	44.3	36.8	42.5	42.1	39.7	41.0			42.9
1997	47.1	44.2	38.0	41.7	45.8	43.1	41.6			43.5
1998	46.1	44.4	39.2	44.4	46.1	42.9	42.7			43.7
1999	45.6	44.9	40.8	46.6	46.5	42.4	42.7			44.3
2000	47.4	45.1	40.4	46.6	47.1	42.0	41.1		43.6	44.7
2001	47.9	45.1	40.6	47.3	48.1	42.7	44.8		46.1	45.6
2002	49.6	44.2	43.1	47.6	49.6	42.7	46.0		50.4	46.4
2003	50.2	46.3	44.5	48.1	50.2	46.5	47.4	49.5	50.2	48.0
2004	51.2	47.0	43.4	50.2	49.8	48.2	47.7	51.3	48.3	48.5
2005	51.8	48.2	45.2	51.0	49.7	50.3	48.1	51.7	48.4	49.4
2006	51.0	50.6	46.0	56.5	50.3	50.8	48.6	52.0	48.1	50.7
2007	55.7	51.2	47.4	54.4	53.0	51.9	51.3	54.7	53.6	52.6
2008	55.5	51.9	50.0	56.6	52.8	53.8	52.0	55.3	54.4	53.4

Table L-30

## MY1975 to MY2008 Pickups LAB 55/45 Ton-MPG by Marketing Group

YEAR	GM	Ford	Chrysler	Toyota	Honda	Nissan	HK	VW	BMW	All
1975	29.6	26.9	28.5	29.3		32.5				28.8
1976	31.1	30.2	30.7	31.1		33.8				30.9
1977	32.5	34.6	31.5	37.8		34.4				33.4
1978	31.9	34.6	30.9	35.3		35.7				33.1
1979	35.0	31.6	31.2	27.5		32.4				32.9
1980	38.9	37.1	34.2	30.9		35.8		37.6		36.7
1981	40.5	38.4	35.6	38.7		40.9		43.6		39.3
1982	42.3	37.6	37.2	39.0		40.9		46.2		40.1
1983	42.2	38.0	39.5	38.8		42.0		42.6		40.0
1984	41.3	38.5	36.2	38.3		41.7				39.4
1984	40.4	38.2	36.1	42.2		40.3				39.6
1985	40.8	39.9	37.4	41.6		39.9				40.1
1986	40.2	39.9	38.9	41.6		39.9				40.1
1987	41.2	40.4	38.5	40.1		40.1				40.5
1988	41.0	41.2	37.2	40.0		40.2				40.5
1989	41.0	41.8	38.7	39.6		43.1				41.1
1990	41.2	42.1	38.4	40.8		43.1				41.4
1991	41.6	43.2	39.0	40.3		43.3				41.8
1992	42.2	43.6	39.0	40.8		43.2				42.4
1993	42.9	44.1	41.0	41.4		42.7				43.0
1994	43.6	44.3	40.5	41.2		42.0				43.1
1995	46.2	44.0	40.8	41.3		42.2				43.9
1996	47.2	45.7	42.2	41.7		41.7				45.3
1997	45.9	44.6	43.1	40.8		46.1				44.6
1998	47.1	43.6	42.5	41.2		44.3				44.7
1999	45.9	44.1	43.0	42.5		43.1				44.4
2000	46.7	45.0	42.6	42.9		43.5				44.7
2001	47.5	45.2	44.9	43.3		43.6				45.6
2002	47.2	46.0	46.5	43.6		44.3				46.3
2003	49.5	49.5	46.1	44.2		45.1				48.2
2004	49.9	50.3	46.4	48.3		47.5				49.1
2005	50.4	50.8	49.5	48.6	48.1	47.6				49.8
2006	53.0	51.0	48.6	52.2	48.1	48.0				51.4
2007	54.7	51.4	51.7	52.6	48.1	50.7				52.7
2008										

Table L-31

## MY1975 to MY2008 Trucks LAB 55/45 Ton-MPG by Marketing Group

YEAR	GM	Ford	Chrysler	Toyota	Honda	Nissan	HK	VW	BMW	All
1975	29.8	26.8	27.2	28.5		32.5		36.2		28.4
1976	31.1	29.8	29.8	29.6		33.8		34.9		30.5
1977	32.7	34.2	30.4	36.0		34.4		38.9		33.0
1978	31.9	33.8	29.6	33.8		35.7		35.0		32.4
1979	34.1	30.9	30.1	27.5		32.4		32.9		32.1
1980	38.4	37.0	33.0	30.9		35.8		36.4		36.3
1981	40.4	38.2	34.7	38.6		40.9		41.2		38.8
1982	42.5	37.3	35.8	38.8		40.9		44.1		39.7
1983	43.1	37.7	37.3	38.7		42.0		36.2		39.9
1984	41.9	38.0	36.4	39.4		41.7		37.5		39.3
1985	41.3	37.9	37.3	42.4		40.3		39.0		39.6
1986	41.1	40.2	38.8	42.6		39.9		36.2		40.4
1987	41.1	40.4	39.7	41.8		39.4		36.2		40.5
1988	41.9	40.7	40.4	40.5		39.4		38.6		40.9
1989	41.9	41.8	40.0	40.4		39.8		42.2		41.2
1990	42.3	41.7	41.5	40.3		42.5		41.9		41.8
1991	42.2	42.7	41.7	42.3		42.2		42.1		42.2
1992	42.3	43.4	41.9	40.7		42.0				42.4
1993	43.4	44.0	41.2	40.9		42.9		43.7		42.9
1994	43.9	44.0	41.3	40.9	40.4	42.8		42.8		43.0
1995	44.4	44.7	40.0	41.4	44.7	42.2	42.7	48.9		43.2
1996	46.5	44.4	42.7	41.9	45.5	42.4	41.0			44.3
1997	47.2	45.2	42.9	41.7	45.4	42.8	41.6	50.8		44.9
1998	46.3	45.0	43.4	43.6	46.2	44.6	42.7			44.9
1999	46.8	44.8	43.7	45.1	48.6	43.8	42.7	46.7		45.3
2000	46.8	45.4	44.0	45.3	50.3	42.9	41.1	48.5	43.6	45.6
2001	47.7	45.4	44.6	46.0	50.6	43.1	44.8	50.0	46.1	46.1
2002	48.8	45.2	46.1	46.3	51.7	43.1	47.1	48.3	50.4	46.9
2003	49.1	46.7	47.8	46.6	51.5	46.0	48.1	48.0	50.2	48.0
2004	50.5	48.4	45.4	50.2	51.0	48.6	48.9	51.3	48.3	49.0
2005	51.0	49.6	48.2	51.1	52.2	49.8	49.5	51.7	48.4	50.1
2006	51.0	50.8	49.1	53.8	52.5	50.0	49.7	52.0	48.1	51.0
2007	54.5	51.2	49.0	54.1	53.4	51.1	51.7	54.7	53.6	52.5
2008	55.1	51.8	51.8	55.9	53.3	53.1	52.3	55.3	54.4	53.5



Table L-32

## MY1975 to MY2008 All LAB 55/45 Ton-MPG by Marketing Group

YEAR	GM	Ford	Chrysler	Toyota	Honda	Nissan	HK	VW	BMW	All
1975	33.2	29.0	31.5	29.8	31.5	33.1		31.5	28.4	31.6
1976	35.4	33.8	33.2	33.7	33.2	34.8		32.4	29.2	34.4
1977	36.4	35.5	33.6	37.9	37.9	35.3		34.7	30.5	35.7
1978	35.3	35.4	34.0	35.4	36.3	34.8		33.9	29.5	35.1
1979	35.8	33.5	34.2	31.7	33.6	33.6		35.7	30.8	34.7
1980	37.3	35.8	34.6	35.1	34.2	38.2		38.9	38.8	36.6
1981	40.1	36.9	36.8	39.6	36.3	39.3		43.1	38.9	38.9
1982	41.3	37.7	38.9	39.2	39.7	40.2		43.0	38.4	40.0
1983	41.1	38.2	39.9	42.5	42.3	41.8		38.9	38.5	40.5
1984	41.2	39.8	38.9	42.8	42.2	42.4		38.5	39.3	40.7
1985	42.2	40.5	39.5	43.8	41.4	40.6		40.6	40.8	41.4
1986	42.6	41.8	40.4	43.8	43.3	41.1	43.7	39.7	40.7	42.0
1987	43.0	41.9	40.0	45.0	43.4	41.7	43.2	39.0	39.1	42.1
1988	43.8	42.7	41.4	44.0	44.4	41.9	43.0	40.2	38.4	42.9
1989	43.3	43.3	41.7	43.9	44.1	42.2	42.9	41.0	37.9	43.0
1990	43.8	43.5	42.7	44.0	44.2	42.9	43.8	41.8	39.1	43.5
1991	43.5	44.0	42.8	44.0	44.5	44.2	43.2	43.1	40.7	43.6
1992	43.6	44.8	42.8	43.6	47.3	44.8	43.2	42.9	43.4	44.1
1993	44.2	45.1	42.5	44.2	48.3	44.5	43.4	41.9	45.6	44.5
1994	44.7	45.2	42.3	44.1	49.0	44.7	43.9	43.3	45.6	44.6
1995	45.2	45.9	42.2	46.0	49.3	44.6	43.6	44.3	47.1	45.2
1996	46.5	45.3	43.6	45.7	48.6	46.0	43.2	44.6	46.7	45.6
1997	46.8	45.7	43.8	46.2	48.4	45.2	43.2	44.9	45.5	45.9
1998	46.4	45.5	44.1	47.9	50.3	48.0	43.0	46.4	45.2	46.3
1999	46.7	45.6	44.7	48.4	49.7	47.8	43.8	46.0	46.2	46.5
2000	47.2	46.1	44.9	48.0	49.9	45.4	43.6	46.7	45.3	46.7
2001	48.1	46.0	45.8	49.0	51.5	45.1	45.4	47.0	46.2	47.3
2002	48.7	46.0	46.4	49.4	51.8	46.7	46.7	49.7	48.4	47.9
2003	49.4	47.3	47.9	50.0	53.3	47.4	47.3	50.9	48.1	49.0
2004	50.1	48.2	46.9	52.5	53.1	49.3	47.9	50.8	47.4	49.7
2005	50.7	49.5	48.7	55.1	53.9	51.0	48.5	52.2	47.6	50.9
2006	51.0	50.2	49.6	55.7	54.9	50.9	51.2	54.8	49.0	51.7
2007	53.2	50.7	49.8	58.2	55.2	53.8	53.0	52.9	51.0	53.4
2008	53.8	51.3	51.7	59.3	55.7	54.7	53.3	52.9	52.3	54.2

Table L-33

## Model Year 1975 To 2008 Cars Engine Size (CID) by Marketing Group

YEAR	GM	Ford	Chrysler	Toyota	Honda	Nissan	HK	VW	BMW	All
1975	343	295	298	129	83	117		96	161	293
1976	329	295	290	116	83	112		100	159	288
1977	314	310	299	108	88	111		99	148	281
1978	288	272	251	112	90	110		98	147	252
1979	283	240	222	113	98	112		98	150	239
1980	222	193	182	115	100	106		100	136	188
1981	224	182	157	114	100	114		106	131	184
1982	209	172	169	118	101	118		109	142	175
1983	221	195	154	124	102	118		118	146	185
1984	210	191	144	118	105	125		119	143	180
1985	207	190	151	122	105	128		121	160	179
1986	189	184	147	116	108	129	90	121	175	168
1987	190	181	153	115	110	125	90	121	172	162
1988	179	183	153	111	115	117	90	118	186	160
1989	186	180	152	115	113	124	99	118	178	162
1990	182	185	161	122	120	144	103	121	181	163
1991	187	175	161	121	123	143	102	120	166	163
1992	192	192	163	129	125	137	101	124	156	170
1993	189	181	169	132	119	138	105	144	162	167
1994	185	191	180	131	121	135	98	133	164	168
1995	191	185	157	135	117	148	109	137	167	168
1996	188	188	157	134	124	145	104	137	162	166
1997	183	187	159	137	122	146	109	136	182	164
1998	191	177	144	143	128	146	109	133	185	164
1999	188	179	163	142	135	148	115	134	179	166
2000	189	184	154	141	134	158	116	134	180	166
2001	190	185	163	141	134	150	118	134	186	165
2002	194	179	164	154	136	165	122	131	174	166
2003	192	191	163	143	141	177	126	131	168	168
2004	192	197	158	147	139	177	138	137	171	170
2005	193	185	177	141	141	166	135	147	163	167
2006	201	185	226	144	139	166	151	150	185	174
2007	192	176	199	146	139	163	142	156	188	167
2008	201	190	195	144	143	162	153	161	186	170

Table L-34

## Model Year 1975 To 2008 Wagons Engine Size (CID) by Marketing Group

YEAR	GM	Ford	Chrysler	Toyota	Honda	Nissan	HK	VW	BMW	All
1975	327	284	294	113		119		89		256
1976	336	297	279	114	91	109		97		276
1977	325	299	281	109	91	110		96		266
1978	299	254	269	114	91	115		97		243
1979	292	220	261	107	91	96		97		234
1980	284	190	240	114	91	98		90		189
1981	287	144	169	116	91	105		97		165
1982	248	162	157	115	91	105		105		178
1983	230	167	150	97	91	107		108		161
1984	195	179	140	95	91	106		125		166
1985	202	176	141	98	91	123		121		158
1986	197	166	158	98	91	120		136		162
1987	205	165	155	116	91	128		124		162
1988	209	172	139	113	93	122		111		163
1989	208	181	102	115	92	98		116		171
1990	206	182	93	115	92	98		118		165
1991	228	160		111	119			123		158
1992	250	170		122	132			129	152	171
1993	210	144	129	130	132			170	152	150
1994	198	146		130	132			169	170	154
1995	197	141		131	132			166	154	147
1996	197	155		131	132		110	156		155
1997	116	147			132		109	168		142
1998	116	149					110	150		143
1999	122	159					121	131	189	148
2000	144	148					121	154	169	147
2001	168	146	149					150	159	150
2002	165	146	148					138	160	149
2003	115	145	148	110				135	158	135
2004	113	157	180	104				137	152	151
2005	118	146	202	101				135	152	158
2006	131	143	184	98				136	183	154
2007	131	143	202	110	91		152	140	183	156
2008	128	174	194	129	91		153	143	183	149

Table L-35 Model Year 1975 To 2008 Cars and Wagons Engine Size (CID) by Marketing Group

YEAR	GM	Ford	Chrysler	Toyota	Honda	Nissan	HK	VW	BMW	All
1975	342	293	298	121	83	117		95	161	288
1976	329	295	288	115	84	112		100	159	287
1977	314	309	295	108	88	111		99	148	279
1978	289	270	254	113	90	111		98	147	251
1979	284	238	226	113	97	109		98	150	238
1980	225	193	186	115	100	105		99	136	188
1981	226	176	159	114	100	113		106	131	182
1982	212	170	167	118	100	117		109	142	175
1983	222	192	154	115	101	116		118	146	182
1984	208	190	144	116	104	123		119	143	179
1985	207	189	150	116	104	128		121	160	177
1986	190	182	148	115	107	128	90	121	175	167
1987	191	179	153	115	109	125	90	121	172	162
1988	180	182	153	111	115	118	90	118	186	160
1989	186	180	152	115	112	124	99	118	178	163
1990	183	185	161	122	119	144	103	121	181	163
1991	188	173	161	120	122	143	102	120	166	163
1992	193	190	163	129	125	137	101	124	156	170
1993	189	176	169	132	119	138	105	145	162	166
1994	185	186	180	131	121	135	98	134	164	168
1995	191	180	157	135	117	148	109	138	167	167
1996	188	186	157	134	124	145	104	137	162	165
1997	182	184	159	137	122	146	109	137	182	164
1998	190	175	144	143	128	146	109	133	185	164
1999	187	178	163	142	135	148	115	134	179	166
2000	189	182	154	141	134	158	117	135	179	165
2001	190	182	160	141	134	150	118	135	185	165
2002	194	177	160	154	136	165	122	132	174	166
2003	189	189	159	140	141	177	126	131	168	166
2004	189	194	165	143	139	177	138	137	171	168
2005	189	183	186	137	141	166	135	146	163	166
2006	194	183	212	138	139	166	151	150	185	172
2007	187	175	200	145	135	163	142	155	188	167
2008	193	190	194	143	139	162	153	159	186	168

Table L-36

## Model Year 1975 To 2008 Vans Engine Size (CID) by Marketing Group

YEAR	GM	Ford	Chrysler	Toyota	Honda	Nissan	HK	VW	BMW	All
1975	306	334	313	133				109		318
1976	321	336	314					120		324
1977	325	343	327					120		332
1978	328	335	327					120		329
1979	319	336	321					120		322
1980	297	314	278					120		288
1981	285	310	271					120		284
1982	291	314	276					111		287
1983	306	313	270					119		294
1984	301	313	201	122				117		249
1985	286	311	189	122				117		236
1986	279	242	186	137				129		228
1987	284	236	193	137		146		129		226
1988	286	240	189	137		146		129		229
1989	290	225	187	137		146		129		225
1990	258	230	200			146		129		225
1991	262	226	199	149		146		129		220
1992	266	230	198	149		146				222
1993	269	218	194	148		181		150		218
1994	265	232	208	149		181		150		226
1995	269	237	201	149	132	181		150		231
1996	257	233	208	149	132	181				220
1997	248	227	208	149	132	181		170		220
1998	240	226	203	183	138	181				217
1999	243	238	208	183	212	200		170		223
2000	241	225	204	183	212	200		170		217
2001	234	276	213	183	212	200		170		229
2002	235	232	210	183	212	200	213	170		218
2003	228	232	213	183	212		213	170		219
2004	232	243	211	202	212	214	213			219
2005	231	219	214	202	212	214	213			216
2006	231	228	213	202	212	214	231			216
2007	252	207	217	211	212	214	231			220
2008	278	213	217	211	212	213	231			220

Table L-37

## Model Year 1975 To 2008 SUVs Engine Size (CID) by Marketing Group

YEAR	GM	Ford	Chrysler	Toyota	Honda	Nissan	HK	VW	BMW	All
1975	350	302	317	257						328
1976	359	302	320	258						335
1977	357	302	324	258						332
1978	355	362	323	258						339
1979	371	351	285	258						331
1980	341	321	266	258						295
1981	317	321	261	258						290
1982	329	319	261	258						294
1983	237	318	266	258						254
1984	226	226	237	194						227
1985	214	226	223	170						216
1986	215	226	213	151						207
1987	220	215	242	157		175				209
1988	242	217	251	175		181				219
1989	262	235	246	180		181				242
1990	253	250	243	178		181				232
1991	246	237	235	190		181				230
1992	244	238	231	179		181				229
1993	261	240	250	195		181				242
1994	251	239	251	196	190	181				238
1995	262	254	241	187		181	122			241
1996	271	260	256	185	191	200	122			252
1997	284	277	242	178	137	200	122			246
1998	262	278	263	180	136	200	122			246
1999	267	277	270	188	135	200	122			246
2000	272	277	265	193	131	199	122		268	245
2001	273	230	261	190	149	207	139		212	229
2002	273	241	244	194	163	204	146		203	236
2003	275	253	250	212	175	210	182	275	205	238
2004	279	251	256	219	177	262	185	238	185	244
2005	268	224	257	215	178	248	178	231	194	233
2006	247	233	255	213	178	248	174	236	196	226
2007	281	218	240	212	171	240	178	235	202	230
2008	261	203	226	223	171	236	187	249	208	222

Table L-38

## Model Year 1975 To 2008 Pickups Engine Size (CID) by Marketing Group

YEAR	GM	Ford	Chrysler	Toyota	Honda	Nissan	HK	VW	BMW	All
1975	321	323	338	133		119				306
1976	329	330	335	133		119				316
1977	325	333	341	134		119				313
1978	322	325	326	134		119				306
1979	304	317	272	134		119				287
1980	269	283	206	134		119		94		236
1981	259	275	218	143		133		99		237
1982	244	279	217	143		133		99		228
1983	244	221	189	144		141		103		212
1984	243	224	224	144		145				215
1985	241	251	250	144		146				221
1986	238	224	218	144		151				206
1987	231	209	221	144		151				202
1988	270	222	226	147		151				229
1989	275	232	234	154		152				236
1989	302	235	255	156		149				247
1990	257	234	264	154		149				232
1991	276	243	257	154		150				245
1992	281	242	263	155		150				244
1993	287	234	283	152		152				248
1994	278	260	296	171		153				257
1995	273	230	305	174		146				251
1996	289	246	309	203		146				264
1997	267	241	299	170		146				252
1998	293	243	307	175		166				267
1999	272	245	292	219		177				255
2000	279	265	306	210		178				269
2001	302	260	290	218		179				271
2002	277	260	294	219		182				264
2003	302	280	301	221		177				282
2004	289	285	298	246		290				284
2005	287	291	290	245	212	280				278
2006	298	282	294	274	212	270				286
2007	300	284	295	282	212	312				291
2008										

Table L-39

## Model Year 1975 To 2008 Trucks Engine Size (CID) by Marketing Group

YEAR	GM	Ford	Chrysler	Toyota	Honda	Nissan	HK	VW	BMW	All
1975	321	325	319	153		119		109		311
1976	331	330	323	155		119		120		319
1977	328	334	331	158		119		120		318
1978	326	330	325	154		119		120		314
1979	314	322	290	139		119		120		298
1980	278	291	237	136		119		104		248
1981	266	282	244	144		133		104		247
1982	257	289	242	145		133		105		243
1983	254	242	225	147		141		117		231
1984	249	238	218	143		145		117		224
1985	242	257	214	143		146		117		224
1986	242	228	202	144		151		129		211
1987	242	216	214	145		154		129		210
1988	267	225	214	150		158		129		227
1989	275	230	213	156		156		129		234
1990	279	235	220	163		154		129		237
1991	255	233	220	159		156		129		228
1992	266	239	216	157		160				234
1993	273	234	224	161		161		150		235
1994	272	235	238	163	190	165		150		239
1995	270	250	239	175	132	167	122	150		244
1996	270	241	246	178	166	170	122			243
1997	279	254	247	180	136	172	122	170		248
1998	260	252	253	177	136	173	122			242
1999	276	255	258	183	155	191	122	170		249
2000	266	253	248	201	170	191	122	170	268	242
2001	269	252	263	196	175	198	139	170	212	243
2002	279	247	247	201	184	196	165	170	203	244
2003	269	254	251	213	186	204	190	193	205	243
2004	284	264	266	216	186	242	191	238	185	252
2005	272	250	250	221	188	258	187	231	194	244
2006	262	258	249	222	192	257	187	236	196	240
2007	286	246	245	232	186	246	188	235	202	245
2008	277	236	236	236	183	254	196	249	208	240



Table L-40

## Model Year 1975 To 2008 All Engine Size (CID) by Marketing Group

YEAR	GM	Ford	Chrysler	Toyota	Honda	Nissan	HK	VW	BMW	All
1975	338	301	302	125	83	118		95	161	293
1976	330	305	295	120	84	114		100	159	294
1977	317	316	302	115	88	112		99	148	287
1978	297	287	273	119	90	112		98	147	266
1979	290	261	244	118	97	111		99	150	252
1980	232	217	198	119	100	107		100	136	198
1981	232	207	173	119	100	116		106	131	193
1982	220	200	187	124	100	120		109	142	188
1983	228	209	172	122	101	120		118	146	193
1984	216	205	167	125	104	128		119	143	190
1985	215	208	172	126	104	133		121	160	189
1986	201	199	170	127	107	137	90	121	175	180
1987	203	192	179	125	109	131	90	121	172	175
1988	206	196	181	123	115	128	90	118	186	180
1989	214	196	182	126	112	132	99	118	178	185
1990	212	202	192	132	119	147	103	122	181	185
1991	211	196	188	132	122	147	102	121	166	184
1992	217	210	193	136	125	142	101	124	156	191
1993	219	199	202	140	119	146	105	145	162	191
1994	220	208	218	141	123	144	98	134	164	197
1995	223	210	203	146	118	156	110	138	167	196
1996	219	211	215	147	126	152	106	137	162	197
1997	222	220	217	150	124	155	111	137	182	199
1998	219	217	221	155	129	155	111	133	185	199
1999	226	217	231	157	139	161	116	134	179	203
2000	224	218	217	166	142	172	117	135	182	200
2001	226	221	227	165	145	173	122	136	191	201
2002	238	218	220	176	149	177	134	132	179	203
2003	235	227	228	170	159	187	146	132	174	204
2004	241	238	230	181	158	210	156	153	174	212
2005	234	221	227	172	160	204	156	158	171	205
2006	228	224	234	177	163	204	163	156	187	204
2007	242	211	231	178	158	197	161	164	191	204
2008	238	217	223	180	157	201	170	177	190	203