

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

Appendix Q Characteristics of Fleets Comprised of Fuel Efficient Vehicles

Compliance and Innovative Strategies Division
and
Transportation and Climate Division

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

NOTICE

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



Table Q-1

Best Four Model Year 2008 Cars by Vehicle Size Class

		<---- FUEL ECONOMY ---->			
		LAB	ADJ	ADJ	ADJ
		55/45	CITY	HWY	COMP
Two-Seater	Daimler AG SMART FORTWO.....	49.5	33.4	40.5	37.1
	Audi TT ROADSTER	32.6	22.1	28.8	25.5
	Mazda MX-5	30.5	20.6	27.4	24.0
	Lotus ELISE-EXIGE	29.9	20.3	26.6	23.5
Minicompact*	BMW MINI COOPER	38.6	25.7	34.1	29.9
	Audi TT COUPE	34.2	22.8	31.0	26.9
	BMW MINI COOPER CONVERTIBLE	32.0	21.2	29.6	25.3
	Volkswagen NEW BEETLE CONVERTIBLE	29.9	19.7	28.3	23.8
Subcompact	Toyota YARIS	42.4	28.9	35.3	32.2
	BMW MINI CLUBMAN	38.6	25.8	34.2	30.0
	Toyota SCION XD	38.2	26.2	32.3	29.4
	Honda CIVIC	37.9	24.9	34.8	29.7
Compact	Honda CIVIC HYBRID	58.8	40.2	45.3	42.9
	Toyota COROLLA	39.2	26.1	34.8	30.4
	Kia RIO	38.2	25.4	34.0	29.7
	Hyundai ACCENT	37.1	24.8	33.0	28.9
Midsize	Toyota PRIUS	65.8	47.7	45.1	46.2
	Nissan ALTIMA HYBRID	46.7	35.1	33.0	33.9
	Toyota CAMRY HYBRID	45.9	33.4	34.1	33.8
	Nissan VERSA	37.1	25.2	32.0	28.7
Large	Honda ACCORD 4DR SEDAN	31.3	20.4	30.2	25.0
	Hyundai SONATA	30.0	19.6	28.9	24.0
	Toyota AVALON	29.4	19.3	28.1	23.5
	Ford TAURUS FWD	28.0	18.0	28.3	22.7
Small Wagon	Honda FIT	39.9	27.1	34.0	30.6
	General Motors VIBE	37.1	25.2	31.9	28.6
	Suzuki SX4	33.1	22.3	29.7	26.0
	General Motors HHR PANEL FWD	32.5	21.7	29.7	25.6
Midsize Wagon	Mazda MAZDA 5	30.7	20.9	27.3	24.1
	Volkswagen PASSAT	29.8	19.7	28.1	23.8
	Subaru OUTBACK AWD.....	28.7	19.5	26.1	22.7
	Kia RONDO	27.7	18.5	26.1	22.1
Large Wagon	Mercedes-Benz R320 CDI 4MATIC	26.9	18.4	24.3	21.3
	Chrysler PACIFICA FWD	22.5	14.8	22.4	18.4
	Chrysler PACIFICA AWD	21.6	14.1	21.8	17.7
	Mercedes-Benz R350	21.5	14.8	19.6	17.2

*Note: BMW MINI COOPER includes turbocharged version. BMW MINI COOPER CONVERTIBLE includes turbocharged version. BMW MINI CLUBMAN includes turbocharged version.

Table Q-2

Best Four Model Year 2008 Trucks by Vehicle Size Class

		<---- FUEL ECONOMY ---->			
		LAB	ADJ	ADJ	ADJ
		55/45	CITY	HWY	COMP
Midsize Pickup	Mazda B2300 2WD.....	28.8	19.9	25.2	22.6
	Toyota TOYOTA TACOMA 2WD	25.3	17.6	22.3	20.0
	General Motors CANYON 2WD	25.1	17.0	23.1	20.0
	General Motors CANYON 4WD	22.9	15.6	21.4	18.4
Large Pickup	Isuzu I-290 2WD EXT CAB	26.2	17.9	23.8	20.8
	Isuzu I-370 2WD EXT CAB	23.4	15.8	22.0	18.8
	Nissan FRONTIER 2WD	23.1	16.0	20.8	18.4
	Ford RANGER 2WD	23.0	15.7	21.0	18.4
Midsize Van	Toyota SIENNA 2WD	26.5	17.9	24.4	21.1
	Honda ODYSSEY 2WD	25.3	16.6	24.8	20.5
	Chrysler CARAVAN 2WD	24.7	16.4	23.6	19.9
	Ford TAURUS X FWD	24.6	16.3	23.6	19.8
Large Van	General Motors G1500-2500 VAN 2WD	21.0	14.5	19.2	16.8
	General Motors H1500-2500 VAN AWD	19.1	13.4	17.0	15.3
	General Motors G1500-2500 EXPRESS 2WD	17.8	12.4	16.1	14.3
	General Motors H1500 EXPRESS AWD	17.8	12.4	16.0	14.3
Small Utility	Subaru FORESTER AWD	28.8	19.7	25.5	22.6
	Chrysler WRANGLER 2WD	22.1	15.1	20.4	17.7
	Chrysler WRANGLER 4WD	21.6	15.1	19.2	17.2
Midsize Utility	Ford ESCAPE HYBRID FWD	43.7	34.3	29.6	31.5
	Ford ESCAPE HYBRID 4WD	38.2	29.4	27.2	28.1
	General Motors VUE HYBRID	36.7	24.8	32.2	28.5
	Toyota HIGHLANDER HYBRID 4WD	35.2	27.3	25.1	26.0
Large Utility	General Motors C1500 TAHOE HYBRID 2WD	28.2	21.1	21.7	21.5
	Mercedes-Benz ML320 CDI 4MATIC	26.9	18.5	24.0	21.3
	Mercedes-Benz GL320 CDI 4MATIC	26.6	18.2	23.9	21.0
	General Motors K1500 TAHOE HYBRID 4WD	26.3	19.7	20.4	20.1

Table Q-3

MY2008 Best in Car Size Class Role Models

Size Class	Rank	Manufacturer	Model Name	Inertia Weight	Drive	Engine HP	CID	Trans	Lab 55/45 MPG
Two Seater	1	Daimler AG	SMART FORTWO	2000	Rear	70	61	L5	49.5
	2	Audi	TT Roadster	3500	Front	200	121	L6	32.6
	3	Mazda	MX-5	2750	Rear	170	122	M5	31.3
	4	Mazda	MX-5	2750	Rear	170	122	M6	31.2
	5	Porsche	BOXSTER	3000	Rear	245	164	M5	30.8
	6	Lotus	ELISE-EXIGE	2250	Rear	190	110	M6	30.6
	7	Mazda	MX-5	2750	Rear	166	122	L6	29.5
	8	Lotus	ELISE-EXIGE	2250	Rear	260	110	M6	29.4
	9	Lotus	ELISE-EXIGE	2250	Rear	220	110	M6	29.4
	10	General Motors	SOLTICE	3500	Rear	260	122	M5	29.3
	11	Porsche	BOXSTER	3000	Rear	245	164	M6	29.1
	12	BMW	Z4 3.0I	3500	Rear	215	183	L6	28.6
MiniCompact	1	BMW	MINI COOPER	2750	Front	120	98	M6	42.5
	2	BMW	MINI COOPER S	3000	Front	175	98	M6	39.2
	3	BMW	MINI COOPER	3000	Front	120	98	L6	38.5
	4	BMW	MINI COOPER S	3000	Front	175	98	L6	35.1
	5	BMW	MINI COOPER CONVERTIBLE	3000	Front	114	98	M5	34.4
	6	Audi	TT COUPE	3000	Front	200	121	L6	34.2
	7	BMW	MINI COOPER CONVERTIBLE	3000	Front	114	98	CVT	33.1
	8	BMW	MINI COOPER S CONVERTIBLE	3000	Front	168	98	M6	31.4
	9	VW	NEW BEETLE CONVERTIBLE	3500	Front	150	151	M5	30.0
	10	VW	NEW BEETLE CONVERTIBLE	3500	Front	150	151	L6	29.9
	11	BMW	MINI COOPER S CONVERTIBLE	3000	Front	168	98	L6	29.8
	12	Mitsubishi	ECLIPSE SPYDER	3500	Front	162	145	M5	28.7
SubCompact	1	Toyota	YARIS	2500	Front	106	91	M5	42.8
	2	BMW	MINI CLUBMAN	3000	Front	120	98	M6	42.5
	3	Toyota	YARIS	2500	Front	106	91	L4	42.3
	4	Toyota	SCION XD	3000	Front	128	110	M5	39.3
	5	Honda	CIVIC	2750	Front	140	110	M5	39.2
	6	BMW	MINI CLUBMAN S	3000	Front	175	98	M6	39.2
	7	Honda	CIVIC	3000	Front	140	110	L5	39.1
	8	Honda	CIVIC	3000	Front	140	110	M5	39.1
	9	BMW	MINI CLUBMAN	3000	Front	120	98	L6	38.5
	10	Toyota	SCION XD	3000	Front	128	110	L4	37.9
	11	Honda	CIVIC	3000	Front	113	110	L5	37.5
	12	General Motors	AVEO 5	2750	Front	103	98	M5	36.1
Compact	1	Honda	CIVIC HYBRID	3000	Front	110	82	CVT	58.8
	2	Toyota	COROLLA	2750	Front	126	110	M5	41.8
	3	Toyota	COROLLA	2750	Front	126	110	L4	39.1
	4	Kia	RIO	2750	Front	110	98	M5	39.0
	5	Hyundai	ACCENT	2750	Front	110	98	M5	38.9
	6	Kia	RIO	2750	Front	110	98	L4	38.0
	7	Ford	FOCUS FWD	2750	Front	138	121	M5	37.6
	8	Ford	FOCUS FWD	2750	Front	138	121	L4	37.2
	9	Ford	FOCUS FWD	3000	Front	138	121	M5	36.9
	10	Hyundai	ACCENT	2750	Front	110	98	L4	36.7
	11	Ford	FOCUS FWD	3000	Front	138	121	L4	36.4
	12	Mazda	MAZDA 3	3000	Front	150	122	M5	36.1

Table Q-3 (continued)

Size Class	Rank	Manufacturer	Model Name	Inertia	Drive	Engine		Trans	Lab
				Weight		HP	CID		55/45 MPG
Midsize	1	Toyota	PRIUS	3000	Front	76	91	CVT	65.8
	2	Nissan	ALTIMA HYBRID	3500	Front	163	152	CVT	46.7
	3	Toyota	CAMRY HYBRID	4000	Front	147	144	CVT	45.9
	4	Nissan	VERSA	3000	Front	122	110	CVT	39.2
	5	Nissan	VERSA	3000	Front	120	110	M6	37.2
	6	Nissan	SENTRA	3000	Front	140	122	CVT	37.1
	7	Hyundai	ELANTRA	3000	Front	138	121	L4	36.9
	8	Hyundai	ELANTRA	3000	Front	138	121	M5	36.3
	9	Nissan	SENTRA	3000	Front	140	122	M6	35.8
	10	Nissan	VERSA	3000	Front	120	110	L4	35.8
	11	General Motors	MALIBU HYBRID	4000	Front	170	145	L4	35.7
	12	Kia	SPECTRA	3000	Front	132	121	L4	35.4
Large	1	Honda	ACCORD 4 DOOR SEDAN	3500	Front	177	144	M5	33.1
	2	Hyundai	SONATA	3500	Front	162	144	M5	32.7
	3	Honda	ACCORD 4 DOOR SEDAN	3500	Front	177	144	L5	32.0
	4	Hyundai	SONATA	3500	Front	162	144	L4	32.0
	5	Toyota	AVALON	4000	Front	268	211	L6	29.4
	6	Honda	ACCORD 4 DOOR SEDAN	4000	Front	268	212	L5	29.3
	7	Hyundai	SONATA	4000	Front	234	204	L5	28.7
	8	General Motors	IMPALA	4000	Front	210	214	L4	28.3
	9	Ford	TAURUS FWD	4000	Front	265	213	L6	28.0
	10	General Motors	IMPALA	4000	Front	240	237	L4	27.9
	11	Chrysler	300-SRT-8	4000	Rear	200	165	L4	27.5
	12	Hyundai	AZERA	4000	Front	234	204	L5	27.4
Small Wagon	1	Honda	FIT	2750	Front	109	91	M5	41.1
	2	Honda	FIT	2750	Front	109	91	L5	40.0
	3	General Motors	VIBE	3000	Front	126	110	M5	38.4
	4	General Motors	VIBE	3000	Front	126	110	L4	36.2
	5	Suzuki	SX4	3000	Front	143	122	L4	33.2
	6	General Motors	HHR PANEL FWD	3500	Front	148	134	L4	32.8
	7	Suzuki	SX4	3000	Front	143	122	M5	32.8
	8	Audi	A3	3500	Front	200	121	L6	32.6
	9	General Motors	HHR PANEL FWD	3500	Front	175	145	L4	31.8
	10	Toyota	Scion XB	3500	Front	158	144	M5	31.7
	11	Toyota	Scion XB	3500	Front	158	144	L4	31.5
	12	General Motors	HHR FWD	3500	Front	260	122	M5	31.5
Midsize Wagon	1	Mazda	MAZDA 5	3500	Front	153	140	M5	31.6
	2	VW	PASSAT WAGON	3500	Front	200	121	M6	31.1
	3	Mazda	MAZDA 5	3500	Front	153	140	L5	30.6
	4	VW	PASSAT WAGON	4000	Front	200	121	L6	29.7
	5	Subaru	OUTBACK WAGON AWD	3500	4wd	170	150	L4	29.2
	6	Subaru	OUTBACK WAGON AWD	3500	4wd	175	150	M5	28.3
	7	Kia	RONDO	3500	Front	162	144	L4	28.3
	8	Saab	9-5 SPORTCOMBI	4000	Front	260	140	M5	27.8
	9	Chrysler	MAGNUM	4000	Rear	200	165	L4	27.5
	10	Kia	RONDO	4000	Front	182	162	L5	27.2
	11	Subaru	OUTBACK WAGON AWD	4000	4wd	243	150	M5	26.2
	12	Saab	9-5 SPORTCOMBI	4000	Front	260	140	L5	26.1
Large Wagon	1	Daimler AG	R320 CDI 4MATIC	5500	4wd	215	182	L7	26.9
	2	Chrysler	PACIFICA 2WD	4500	Front	215	231	L4	22.8
	3	Chrysler	PACIFICA 2WD	4500	Front	250	241	L6	22.4
	4	Chrysler	PACIFICA AWD	5000	4wd	250	241	L6	21.6
	5	Daimler AG	R350 4MATIC	5500	Rear	268	213	L7	21.5
	6	Daimler AG	R350 4MATIC	5500	4wd	268	213	L7	21.3

Table Q-4

MY2008 Best in Truck Size Class Role Models

Size Class	Rank	Manufacturer	Model Name	Inertia		Engine		Trans	Lab 55/45 MPG
				Weight	Drive	HP	CID		
Midsize Pickup	1	Ford	RANGER PICKUP 2WD	3500	Rear	143	140	M5	30.3
	2	Toyota	TACOMA 2WD	3500	Rear	159	164	M5	30.1
	3	Toyota	TACOMA 2WD	4000	Rear	159	164	L4	27.6
	4	Toyota	TACOMA 2WD	3500	Rear	159	164	L4	27.6
	5	Ford	RANGER PICKUP 2WD	3500	Rear	143	140	L5	26.8
	6	General Motors	COLORADO 2WD	3500	Rear	190	178	L4	26.7
	7	General Motors	COLORADO 2WD	4000	Rear	190	178	L4	26.4
	8	Toyota	TACOMA 2WD	4000	Rear	159	164	M5	26.1
	9	General Motors	COLORADO 2WD	4000	Rear	190	178	M5	26.0
	10	General Motors	COLORADO 2WD	3500	Rear	190	178	M5	26.0
	11	General Motors	COLORADO 4WD	4000	4wd	190	178	L4	24.8
	12	Toyota	TACOMA 4WD	4000	4wd	159	164	M5	24.7
Large Pickup	1	Nissan	FRONTIER 2WD	4000	Rear	151	152	M5	27.3
	2	Isuzu	I-290 2WD EXT CAB	4000	Rear	190	178	L4	26.4
	3	Isuzu	I-290 2WD EXT CAB	4000	Rear	190	178	M5	26.0
	4	Nissan	FRONTIER 2WD	4000	Rear	151	152	L5	24.2
	5	Ford	RANGER PICKUP 2WD	4000	Rear	148	182	M5	23.4
	6	General Motors	COLORADO CREW CAB 2WD	4000	Rear	190	223	L4	23.4
	7	Chrysler	DAKOTA PICKUP 2WD	4500	Rear	215	226	M6	22.7
	8	Nissan	FRONTIER 2WD	4500	Rear	261	241	M6	22.4
	9	General Motors	C15 SILVERADO 2WD	4500	Rear	195	262	L4	22.3
	10	Chrysler	RAM 1500 PICKUP 2WD	5000	Rear	215	226	M6	22.2
	11	General Motors	C15 SILVERADO 2WD	5000	Rear	310	325	L4	21.9
	12	Nissan	FRONTIER 4WD	4500	4wd	261	241	M6	21.9
Midsize Van	1	Toyota	SIENNA 2WD	4000	Front	269	211	L5	28.9
	2	Toyota	SIENNA 2WD	4500	Front	266	211	L5	26.5
	3	Chrysler	CARAVAN 2WD	5000	Front	253	241	L6	26.0
	4	Honda	ODYSSEY 2WD	4500	Front	241	212	L5	25.8
	5	Ford	TAURUS X FWD	4500	Front	265	213	L6	24.6
	6	Nissan	QUEST	4500	Front	240	213	L5	24.5
	7	General Motors	UPLANDER FWD	4500	Front	240	237	L4	24.0
	8	Honda	ODYSSEY 2WD	4500	Front	244	212	L5	23.9
	9	Chrysler	CARAVAN 2WD	4500	Front	170	231	L6	23.8
	10	Kia	SEDONA	4500	Front	244	231	L5	23.8
	11	Toyota	SIENNA 4WD	4500	4wd	266	211	L5	23.0
	12	Ford	TAURUS X AWD	4500	4wd	265	213	L6	22.8
Large Van	1	General Motors	G1500-2500 VAN 2WD	5000	Rear	195	262	L4	21.7
	2	General Motors	G1500-2500 VAN 2WD	5500	Rear	301	325	L4	19.6
	3	General Motors	H1500-2500 VAN AWD	5500	4wd	301	325	L4	19.1
	4	General Motors	G1500-2500 EXPRESS 2WD	6000	Rear	301	325	L4	17.8
	5	General Motors	H1500 EXPRESS AWD	6000	4wd	301	325	L4	17.8
Small Utility	1	Subaru	FORESTER AWD	3500	4wd	170	150	M5	29.2
	2	Subaru	FORESTER AWD	3500	4wd	173	150	L4	28.9
	3	Subaru	FORESTER AWD	3500	4wd	230	150	M5	27.3
	4	Subaru	FORESTER AWD	3500	4wd	230	150	L4	26.1
	5	Chrysler	WRANGLER 2WD	4000	Rear	190	231	M6	22.8
	6	Chrysler	WRANGLER 4WD	4500	4wd	190	231	L4	22.0
	7	Chrysler	WRANGLER 2WD	4000	Rear	190	231	L4	21.9
	8	Chrysler	WRANGLER 4WD	4000	4wd	190	231	L4	21.3
	9	Chrysler	WRANGLER 4WD	4500	4wd	190	231	M6	21.2
	10	Chrysler	WRANGLER 4WD	4000	4wd	190	231	M6	21.2

Table Q-4 (continued)

Size Class	Rank	Manufacturer	Model Name	Inertia	Drive	Engine		Trans	Lab
				Weight		HP	CID		55/45 MPG
Midsize Utility	1	Ford	ESCAPE HYBRID FWD	4000	Front	133	140	CVT	43.7
	2	Ford	ESCAPE HYBRID 4WD	4000	4wd	133	140	CVT	38.2
	3	General Motors	VUE HYBRID	4000	Front	170	145	L4	36.7
	4	Toyota	HIGHLANDER HYBRID 4WD	5000	4wd	208	202	CVT	35.2
	5	Toyota	RX 400H 2WD	4500	Front	211	202	CVT	34.1
	6	Toyota	RX 400H 4WD	4500	4wd	208	202	CVT	33.4
	7	Chrysler	COMPASS 2WD	3500	Front	165	144	M5	33.1
	8	Chrysler	COMPASS 2WD	3500	Front	172	144	CVT	32.4
	9	Nissan	ROUGE	3500	Front	170	152	CVT	32.3
	10	Chrysler	COMPASS 4WD	3500	4wd	165	144	M5	32.1
	11	Ford	ESCAPE FWD	3500	Front	153	140	M5	31.9
	12	Toyota	RAV4 2WD	3500	Front	166	144	L4	30.9
Large Utility	1	General Motors	C1500 TAHOE HYBRID 2WD	6000	Rear	332	364	CVT	28.2
	2	Daimler AG	ML320 CDI 4MATIC	5000	4wd	215	182	L7	26.9
	3	Daimler AG	GL320 CDI 4MATIC	6000	4wd	215	182	L7	26.6
	4	General Motors	K1500 TAHOE HYBRID 2WD	6000	4wd	332	364	CVT	26.3
	5	BMW	X3 3.0SI	4000	4wd	255	183	L6	25.6
	6	General Motors	EQUINOX AWD	4000	4wd	185	204	L5	25.0
	7	General Motors	EQUINOX FWD	4000	Front	185	204	L5	25.0
	8	Ford	EDGE FWD	4500	Front	265	213	L6	24.6
	9	General Motors	EQUINOX AWD	4000	4wd	267	218	L6	24.5
	10	General Motors	EQUINOX FWD	4000	Front	267	218	L6	24.5
	11	General Motors	ACADIA FWD	5000	Front	267	218	L6	24.5
	12	BMW	X3 3.0SI	4000	4wd	255	183	M6	24.3

Table Q-5

MY2008 Best in Car Weight Class Role Models

Inertia Weight	Rank	Manufacturer	Model Name	Size Class	Drive	Engine			Lab 55/45 MPG
						HP	CID	Trans	
2000	1	Daimler AG	SMART FORTWO	Two-seater	Rear	70	61	L5	49.5
2250	1	Lotus	ELISE-EXIGE	Two-seater	Rear	190	110	M6	30.6
	2	Lotus	ELISE-EXIGE	Two-seater	Rear	260	110	M6	29.4
	3	Lotus	ELISE-EXIGE	Two-seater	Rear	220	110	M6	29.4
2500	1	Toyota	YARIS	Subcompact	Front	106	91	M5	42.8
	2	Toyota	YARIS	Subcompact	Front	106	91	L4	42.3
2750	1	BMW	MINI COOPER	Minicompact	Front	120	98	M6	42.5
	1	Toyota	COROLLA	Compact	Front	126	110	M5	41.8
	2	Honda	FIT	Small Wagon	Front	109	91	M5	41.1
	4	Honda	FIT	Small Wagon	Front	109	91	L5	40.0
	5	Honda	CIVIC	Subcompact	Front	140	110	M5	39.2
	6	Toyota	COROLLA	Compact	Front	126	110	L4	39.1
	7	Kia	RIO	Compact	Front	110	98	M5	39.0
	8	Hyundai	ACCENT	Compact	Front	110	98	M5	38.9
	9	Kia	RIO	Compact	Front	110	98	L4	38.0
	10	Ford	FOCUS FWD	Compact	Front	138	121	M5	37.6
	11	Ford	FOCUS FWD	Compact	Front	138	121	L4	37.2
	12	Hyundai	ACCENT	Compact	Front	110	98	L4	36.7
3000	1	Toyota	PRIUS	Midsize	Front	76	91	CVT	65.8
	2	Honda	CIVIC HYBRID	Compact	Front	110	82	CVT	58.8
	3	BMW	MINI CLUBMAN	Subcompact	Front	120	98	M6	42.5
	4	Toyota	SCION XD	Subcompact	Front	128	110	M5	39.3
	5	Nissan	VERSA	Midsize	Front	122	110	CVT	39.2
	6	BMW	MINI CLUBMAN S	Subcompact	Front	175	98	M6	39.2
	7	BMW	MINI COOPER S	Minicompact	Front	175	98	M6	39.2
	8	Honda	CIVIC	Subcompact	Front	140	110	L5	39.1
	9	Honda	CIVIC	Subcompact	Front	140	110	M5	39.1
	10	BMW	MINI COOPER	Minicompact	Front	120	98	L6	38.5
	11	BMW	MINI CLUBMAN	Subcompact	Front	120	98	L6	38.5
	12	General Motors	VIBE	Small Wagon	Front	126	110	M5	38.4
3500	1	Nissan	ALTIMA HYBRID	Midsize	Front	163	152	CVT	46.7
	2	Nissan	ALTIMA COUPE	Subcompact	Front	175	152	M6	34.9
	3	Nissan	ALTIMA	Midsize	Front	175	152	M6	34.9
	4	Nissan	SENTRA	Midsize	Front	172	152	CVT	34.8
	5	Chrysler	CALIBER	Midsize	Front	143	110	M5	34.5
	6	Nissan	ALTIMA	Midsize	Front	175	152	CVT	34.3
	7	Nissan	ALTIMA COUPE	Midsize	Front	175	152	CVT	34.3
	8	Chrysler	CALIBER	Midsize	Front	165	144	M5	33.6
	9	Honda	ACCORD 2 DR COUPE	Compact	Front	190	144	M5	33.3
	10	Honda	ACCORD 4 DR SEDAN	Large	Front	177	144	M5	33.1
	11	Toyota	CAMRY SOLARA	Compact	Front	155	144	L5	33.0
	12	Toyota	CAMRY	Midsize	Front	158	144	L5	32.9
4000	1	Toyota	CAMRY HYBRID	Midsize	Front	147	144	CVT	45.9
	2	General Motors	MALIBU HYBRID	Midsize	Front	170	145	L4	35.7
	3	Daimler AG	E320 BLUETEC	Midsize	Rear	210	182	L7	34.7
	4	VW	EOS	Subcompact	Front	200	121	L6	32.0
	5	VW	A4	Compact	Front	200	121	CVT	31.8
	6	VW	A4 CABRIOLET	Subcompact	Front	200	121	CVT	31.8
	7	Toyota	IS 250	Subcompact	Rear	204	152	L6	31.7
	8	Chrysler	SEBRING CONVERTIBLE	Subcompact	Front	150	144	L4	30.3
	9	VW	PASSAT WAGON	Midsize wagon	Front	200	121	L6	29.7
	10	Audi	A4 QUATTRO	Compact	4wd	200	121	M6	29.6
	11	Audi	A4 AVANT QUATTRO	Small Wagon	4wd	200	121	M6	29.6
	12	Toyota	AVALON	Large	Front	268	211	L6	29.4

Table Q-5 (continued)

Inertia Weight	Rank	Manufacturer	Model Name	Size Class	Drive	Engine			Lab 55/45 MPG
						HP	CID	Trans	
4500	1	Toyota	GS 450H	Compact	Rear	292	211	L6	30.8
	2	General Motors	CTS AWD	Midsize	4wd	300	218	L6	25.9
	3	General Motors	STS AWD	Midsize	4wd	300	218	L6	25.9
	4	General Motors	CTS AWD	Midsize	4wd	255	218	L6	25.7
	5	Audi	A4 CABRIOLET QUATTRO	Subcompact	4wd	255	191	L6	25.5
	6	Audi	A6 AVANT QUATTRO	Midsize wagon	4wd	255	191	L6	25.5
	7	Toyota	LS 460 L	Midsize	Rear	380	281	L8	24.7
	8	BMW	535XI SPORT WAGON	Midsize wagon	4wd	300	183	L6	24.7
	9	Toyota	LS 460	Midsize	Rear	380	281	L8	24.5
	10	Audi	A6 QUATTRO	Midsize	4wd	350	254	L6	23.9
	11	Audi	A8 L	Large	4wd	350	254	L6	23.9
	12	Audi	A8	Midsize	4wd	350	254	L6	23.9
5000	1	DC	PACIFICA AWD	Large wagon	4wd	250	241	L6	21.6
	2	Daimler AG	S550 4MATIC	Large	4wd	382	333	L7	21.3
	3	BMW	760LI	Large	Rear	438	364	L6	19.7
	4	Audi	A8 L	Large	4wd	450	366	L6	19.4
	5	Audi	S8	Midsize	4wd	444	317	L6	19.0
	6	Daimler AG	CL63 AMG	Compact	Rear	518	379	L7	17.4
	7	Daimler AG	S600	Large	Rear	510	336	L5	17.1
	8	Daimler AG	S63 AMG	Large	Rear	518	379	L7	17.1
	9	Daimler AG	CL65 AMG	Compact	Rear	603	365	L5	16.8
	10	Daimler AG	CL600	Compact	Rear	510	336	L5	16.7
5500	1	Toyota	LS 600HL	Midsize	4wd	389	303	L8	26.9
	2	Daimler AG	R320 CDI 4MATIC	Large Wagon	4wd	215	182	L7	26.9
	3	Daimler AG	R350	Large Wagon	Rear	268	213	L7	21.5
	4	Daimler AG	R350 4MATIC	Large Wagon	4wd	268	213	L7	21.3
	5	Rolls-Royce	PHANTOM	Midsize	Rear	453	412	L6	17.3
	6	Rolls-Royce	PHANTOM DROPHEAD COUPE	Compact	Rear	453	412	L6	17.3
	7	Daimler AG	S65 AMG	Large	Rear	603	365	L5	16.6
	8	Bentley	CONTINENTAL GT	Compact	4wd	600	366	L6	16.2
6000	1	General Motors	LIMOUSINE	Large	Front	275	279	L4	18.9
	2	Bentley	CONTINENTAL FLYING SPUR	Midsize	4wd	600	366	L6	15.8
	3	Bentley	CONTINENTAL GTC	Subcompact	4wd	600	366	L6	15.8
	4	Bentley	ARNAGE	Midsize	Rear	500	412	L6	14.4
6500	1	Daimler AG	MAYBACH 57	Large	Rear	543	336	L5	15.3
	2	Daimler AG	MAYBACH 57S	Large	Rear	603	365	L5	15.2
	3	Bentley	ARNAGE RL	Large	Rear	500	412	L6	14.4
	4	Bentley	AZURE	Compact	Rear	500	412	L6	14.4

Table Q-6

MY2008 Best in Truck Weight Class Role Models

Inertia Weight	Rank	Manufacturer	Model Name	Size Class	Drive	Engine			Lab. 55/45 MPG
						HP	CID	Trans.	
3500	1	Chrysler	COMPASS 2WD	Medium Utility	Front	165	144	M5	33.1
	2	Chrysler	COMPASS 2WD	Medium Utility	Front	172	144	M5	32.4
	3	Nissan	ROUGE FWD	Medium Utility	Front	170	152	CVT	32.3
	4	Chrysler	COMPASS 4WD	Medium Utility	4wd	165	144	M5	32.1
	5	Ford	ESCAPE FWD	Medium Utility	Front	153	140	M5	31.9
	6	Toyota	RAV4 2WD	Medium Utility	Front	166	144	L4	30.9
	7	Nissan	ROUGE AWD	Medium Utility	Front	170	152	CVT	30.9
	8	Ford	RANGER PICKUP 2WD	Medium Pickup	Rear	143	140	M5	30.3
	9	Toyota	TACOMA 2WD	Medium Pickup	Rear	159	164	M5	30.1
	10	Chrysler	COMPASS 2WD	Medium Utility	Front	165	144	CVT	30.0
	11	Honda	CR-V 2WD	Medium Utility	Front	166	144	L5	29.7
	12	Ford	ESCAPE FWD	Medium Utility	Front	153	140	L4	29.3
4000	1	Ford	ESCAPE HYBRID FWD	Medium Utility	Front	133	140	CVT	43.7
	2	Ford	ESCAPE HYBRID 4WD	Medium Utility	4wd	133	140	CVT	38.2
	3	General Motors	VUE HYBRID	Medium Utility	Front	170	145	L4	36.7
	4	Nissan	ROGUE AWD	Medium Utility	4wd	170	152	CVT	30.4
	5	Toyota	RAV4 4WD	Medium Utility	4wd	166	144	L4	29.3
	6	Toyota	RAV4 2WD	Medium Utility	Front	269	211	L5	28.9
	7	Toyota	SIENNA 2WD	Medium Van	Front	269	211	L5	28.9
	8	Honda	CR-V 4WD	Medium Utility	4wd	166	144	L5	28.5
	9	Mitsubishi	OUTLANDER 4WD	Medium Utility	4wd	168	144	CVT	28.7
	10	Honda	ELEMENT 2WD	Medium Utility	Front	166	144	L5	28.3
	11	General Motors	VUE FWD	Medium Utility	Front	163	145	L4	28.3
	12	Toyota	RAV4 4WD	Medium Utility	4wd	269	211	L5	27.9
4500	1	Toyota	RX400H 2WD	Medium Utility	Front	211	202	CVT	34.1
	2	Toyota	RX400H 4WD	Medium Utility	4wd	208	202	CVT	33.4
	3	Toyota	SIENNA 2WD	Medium Van	Front	266	211	L5	26.5
	4	Toyota	HIGHLANDER 2WD	Medium Utility	Front	270	211	L5	26.0
	5	General Motors	GRAND CHEROKEE 2WD	Medium Utility	Rear	215	183	L5	26.0
	6	Honda	ODYSSEY 2WD	Medium Van	Front	241	212	L5	25.8
	7	Hyundai	SANTA FE 4WD	Medium Utility	4wd	185	162	M5	25.3
	8	Hyundai	SANTA FE 4WD	Medium Utility	4wd	185	162	L4	24.9
	9	Hyundai	SANTA FE 4WD	Medium Utility	4wd	242	204	L5	24.8
	10	Toyota	HIGHLANDER 4WD	Medium Utility	4wd	270	211	L5	24.8
	11	Toyota	RX 350 4WD	Medium Utility	4wd	270	211	L5	24.6
	12	Ford	EDGE 4WD	Large Utility	Front	265	213	L6	24.6
5000	1	Toyota	HIGHLANDER HYBRID 4WD	Medium Utility	4wd	208	202	CVT	35.2
	2	Daimler AG	ML320 CDI 4MATIC	Large Utility	4wd	215	182	L7	26.9
	3	Chrysler	CARAVAN 2WD	Medium Van	Front	253	241	L6	26.0
	4	Chrysler	GRAND CHEROKEE 4WD	Medium Utility	4wd	215	183	L5	25.4
	5	General Motors	ACADIA FWD	Large Utility	Front	267	218	L6	24.5
	6	General Motors	ACADIA AWD	Large Utility	4wd	267	218	L6	23.2
	7	BMW	X5 3.0SI	Large Utility	4wd	260	183	L6	22.8
	8	Chrysler	RAM 1500 PICKUP 2WD	Large Pickup	Rear	215	226	M6	22.1
	9	Nissan	PATHFINDER 2WD	Large Utility	Rear	266	241	L5	22.1
	10	General Motors	C15 SILVERADO 2WD	Large Pickup	Rear	310	325	L4	21.8
	11	General Motors	C15 SILVERADO 2WD	Large Pickup	Rear	195	262	L4	21.7
	12	General Motors	G1500-2500 VAN 2WD	Large Van	Rear	195	262	L4	21.7

Table Q-6 (continued)

Inertia Weight	Rank	Manufacturer	Model Name	Size Class	Drive	Engine			Lab. 55/45 MPG
						HP	CID	Trans.	
5500	1	General Motors	C15 SILVERADO 2WD	Large Pickup	Rear	310	325	L4	21.7
	2	Porsche	CAYENNE	Large Utility	4wd	290	219	L6	21.3
	3	Audi	Q7	Large Utility	4wd	280	219	L6	20.8
	4	VW	TOUAREG	Large Utility	4wd	280	219	L6	20.8
	5	General Motors	K15 SILVERADO 4WD	Large Pickup	4wd	310	325	L4	20.7
	6	General Motors	C1500 TAHOE 2WD	Large Utility	Rear	310	325	L4	20.5
	7	General Motors	C15 SILVERADO 2WD	Large Pickup	Rear	270	293	L4	20.4
	8	BMW	X5 4.8I	Large Utility	4wd	350	293	L6	20.1
	9	General Motors	K15 SILVERADO 4WD	Large Pickup	4wd	270	293	L4	20.1
	10	Toyota	TUNDRA 2WD	Large Pickup	Rear	381	346	L6	20.1
	11	Ford	F150 PICKUP 2WD	Large Pickup	Rear	231	280	L4	19.9
	12	General Motors	G1500-2500 VAN 2WD	Large Van	Rear	301	325	L4	19.6
6000	1	General Motors	C1500 TAHOE HYBRID 2WD	Large Utility	Rear	332	364	CVT	28.2
	2	Daimler AG	GL320 CDI 4MATIC	Large Utility	4wd	215	182	L7	26.6
	3	General Motors	K1500 TAHOE HYBRID 4WD	Large Utility	4wd	332	364	CVT	26.3
	4	VW	TOUAREG	Large Utility	4wd	310	300	L6	21.7
	5	General Motors	C1500 TAHOE 2WD	Large Utility	Rear	310	325	L4	21.2
	6	General Motors	C1500 AVALANCHE 2WD	Large Pickup	Rear	310	325	L4	21.2
	7	General Motors	K1500 TAHOE 4WD	Large Utility	4wd	310	325	L4	20.3
	8	General Motors	K1500 AVALANCHE 4WD	Large Pickup	4wd	310	325	L4	20.3
	9	General Motors	C1500 TAHOE 2WD	Large Utility	Rear	270	293	L4	20.2
	10	Toyota	SEQUOIA 2WD	Large Utility	Rear	381	346	L6	19.9
	11	Toyota	TUNDRA 2WD	Large Pickup	Rear	381	346	L6	19.9
	12	Toyota	SEQUOIA 2WD	Large Utility	Rear	276	285	L5	19.4
6500	1	Toyota	SEQUOIA 4WD	Large Utility	4wd	381	346	L6	18.9
	2	Toyota	LX 570	Large Utility	4wd	383	346	L6	18.3
	3	Nissan	ARMADA 4WD	Large Utility	4wd	517	339	L5	17.5
	4	Nissan	QX56 4WD	Large Utility	4wd	320	339	L5	17.4
	5	Nissan	TITAN 4WD	Large Pickup	4wd	517	339	L5	17.1
	6	Nissan	TITAN 4WD	Large Pickup	4wd	317	339	L5	17.1
	7	Roush	STAGE3 F150 SUPERCREW	Large Pickup	4wd	445	330	L4	16.0

Table Q-7

Characteristics of 1975 TO 2008 Cars

Using Each Year's Size Class Mix							Using 1981 Size Class Mix							
Year	0-60		Weight	CID	HP	55/45	Ton	0-60		Weight	CID	HP	55/45	Ton
	Time	Vol				Lab.	MPG	Time	Vol				Lab.	MPG
1975	14.2		4059	289	136	15.8	27.5	14.1		4012	286	135	15.8	27.3
1976	14.4		4060	287	134	17.4	30.2	14.3		3926	274	130	17.9	30.0
1977	13.9	110	3947	280	134	18.3	30.9	14.0	106	3804	263	128	19.0	30.9
1978	13.7	109	3588	252	125	19.8	30.5	13.8	105	3454	236	119	20.5	30.3
1979	13.7	109	3476	238	120	20.1	29.9	13.8	106	3387	226	115	20.6	29.7
1980	14.1	104	3084	186	101	23.2	30.6	14.1	106	3128	191	103	22.9	30.6
1981	14.1	106	3043	178	99	24.9	32.3	14.1	106	3043	178	99	24.9	32.3
1982	14.2	106	3027	172	99	25.9	33.6	14.2	106	3043	175	100	25.7	33.6
1983	13.9	109	3101	181	104	25.8	34.4	13.9	107	3067	179	103	26.0	34.3
1984	13.7	108	3097	179	106	26.2	34.8	13.6	107	3100	180	108	26.0	34.6
1985	13.2	108	3091	177	111	26.9	35.7	13.3	107	3065	175	110	27.1	35.6
1986	13.2	107	3041	167	111	27.9	36.2	13.2	107	3048	170	112	27.7	36.1
1987	13.0	107	3030	162	112	28.1	36.2	13.0	107	3053	166	115	27.9	36.2
1988	12.8	107	3047	160	116	28.6	36.9	12.8	107	3057	162	118	28.5	36.9
1989	12.4	108	3099	163	121	28.1	36.8	12.4	107	3098	164	122	28.1	36.8
1990	12.1	107	3176	163	129	27.8	37.1	12.1	107	3186	163	129	27.8	37.2
1991	11.8	107	3153	163	132	28.0	37.0	11.8	108	3182	166	134	27.9	37.2
1992	11.5	108	3240	170	141	27.6	37.4	11.6	108	3230	167	139	27.8	37.6
1993	11.6	108	3207	166	138	28.2	37.7	11.6	108	3210	166	139	28.3	37.8
1994	11.4	108	3250	168	143	28.0	37.9	11.4	108	3263	169	145	28.0	38.0
1995	10.9	109	3262	167	152	28.3	38.3	10.9	107	3283	170	154	28.2	38.4
1996	10.8	109	3281	165	154	28.3	38.3	10.8	107	3272	167	154	28.5	38.5
1997	10.7	109	3274	164	156	28.4	38.3	10.8	108	3270	162	156	28.5	38.5
1998	10.6	109	3306	164	159	28.5	38.7	10.6	108	3295	165	160	28.5	38.7
1999	10.5	109	3365	166	164	28.1	38.7	10.5	108	3314	164	163	28.3	38.5
2000	10.3	110	3371	166	168	28.1	38.6	10.3	108	3332	164	168	28.1	38.3
2001	10.3	109	3381	165	169	28.4	39.0	10.1	106	3420	174	177	27.6	38.5
2002	10.1	110	3393	166	174	28.5	39.1	9.8	107	3437	178	185	27.7	38.7
2003	10.0	109	3424	166	177	28.8	39.8	9.8	106	3495	175	186	27.7	39.3
2004	9.8	110	3467	169	184	28.7	40.0	9.7	107	3492	173	190	27.9	39.3
2005	9.8	111	3471	168	184	29.2	40.4	9.6	108	3476	171	189	28.6	39.8
2006	9.5	112	3542	173	196	28.9	41.0	9.6	108	3471	167	191	29.4	40.9
2007	9.6	110	3517	169	193	29.8	41.9	9.7	108	3464	165	190	30.1	41.7
2008	9.5	110	3548	171	199	29.8	42.3	9.5	108	3498	165	195	30.2	42.2

Table Q-8

Characteristics of 1975 TO 2008 Trucks

Using Each Year's Size Class Mix							Using 1981 Size Class Mix						
Year	0-60 Time	Weight	CID	HP	55/45 Lab. MPG	Ton MPG	Year	0-60 Time	Weight	CID	HP	55/45 Lab. MPG	Ton MPG
1975	13.6	4072	311	142	13.7	24.2	1975	13.8	3879	281	134	14.5	24.6
1976	13.8	4155	319	141	14.4	26.0	1976	14.1	3919	283	131	15.5	26.4
1977	13.3	4135	318	147	15.6	28.0	1977	13.6	3931	287	138	16.7	28.8
1978	13.3	4149	314	146	15.2	27.4	1978	13.7	3939	283	136	16.4	28.3
1979	14.2	4239	297	138	14.7	27.0	1979	14.3	4073	277	132	15.4	27.4
1980	14.4	3848	247	121	18.4	30.3	1980	14.4	3939	258	124	18.1	30.6
1981	14.4	3841	252	121	19.7	32.4	1981	14.4	3841	252	121	19.7	32.4
1982	14.1	3766	243	122	20.0	32.3	1982	14.1	3872	256	126	19.4	32.2
1983	14.4	3732	228	118	20.6	33.2	1983	14.2	3925	255	127	19.5	32.9
1984	14.6	3770	223	118	20.3	33.1	1984	14.3	3934	251	126	19.3	32.8
1985	14.1	3787	223	124	20.5	33.6	1985	13.7	3941	252	133	19.5	33.1
1986	13.9	3732	211	123	21.4	34.2	1986	13.7	3951	247	133	20.0	33.8
1987	13.3	3710	210	131	21.6	34.2	1987	13.1	4009	255	145	19.7	33.6
1988	12.9	3838	227	141	21.2	34.5	1988	12.7	4071	261	152	19.8	34.1
1989	12.8	3919	234	146	20.9	34.7	1989	12.6	4110	264	156	19.6	34.1
1990	12.6	4003	237	151	20.7	35.0	1990	12.4	4147	264	160	19.7	34.5
1991	12.5	3946	228	150	21.3	35.3	1991	12.4	4143	261	160	19.9	34.7
1992	12.5	4055	234	155	20.8	35.4	1992	12.6	4209	260	159	19.9	35.0
1993	12.1	4073	235	162	21.0	35.7	1993	12.2	4187	255	164	20.3	35.5
1994	12.0	4125	239	166	20.8	35.7	1994	12.0	4255	263	170	20.0	35.3
1995	12.0	4184	244	168	20.5	35.7	1995	12.0	4290	264	171	19.7	35.2
1996	11.5	4224	243	179	20.8	36.6	1996	11.4	4315	262	186	20.0	35.7
1997	11.4	4344	248	187	20.6	36.9	1997	11.2	4372	254	193	20.5	36.8
1998	11.2	4282	242	187	20.9	36.8	1998	10.9	4382	257	198	20.3	36.5
1999	11.0	4412	249	197	20.5	37.0	1999	10.8	4505	263	207	20.0	36.8
2000	11.0	4375	242	197	20.8	37.1	2000	10.7	4295	245	200	20.8	36.4
2001	10.6	4463	243	209	20.6	37.4	2001	10.7	4401	247	205	20.6	36.9
2002	10.4	4546	244	219	20.6	38.0	2002	10.5	4558	254	217	20.1	37.1
2003	10.4	4586	243	221	20.9	38.7	2003	10.5	4560	252	218	20.5	37.6
2004	10.0	4710	252	236	20.8	39.4	2004	10.3	4721	260	233	20.4	38.7
2005	10.0	4669	245	237	21.4	40.1	2005	10.1	4679	247	235	21.2	39.9
2006	10.0	4669	241	235	21.6	40.6	2006	10.2	4685	245	233	21.5	40.4
2007	9.7	4745	246	249	22.0	41.9	2007	9.9	4443	243	239	22.3	40.7
2008	9.7	4742	241	252	22.4	42.7	2008	9.8	4523	246	250	22.4	41.6

Table Q-9

Characteristics of 1975 TO 2008 Cars

Using Each Year's Weight Mix						Using 1981 Weight Mix						
Year	0-60		55/45			Year	0-60		55/45			
	Time	Vol	Weight	CID	HP		Time	Vol	Weight	CID	HP	
					Lab.						Lab.	
					MPG						MPG	
1975	14.2		4059	289	136	15.8	14.8		3043	169	95	20.6
1976	14.4		4060	287	134	17.4	15.0		3043	168	93	22.5
1977	13.9	110	3947	280	134	18.3	14.4	94	3043	171	98	23.3
1978	13.7	109	3588	252	125	19.8	14.1	100	3043	182	102	23.0
1979	13.7	109	3476	238	120	20.1	14.1	100	3043	182	101	22.7
1980	14.1	104	3084	186	101	23.2	14.2	103	3043	180	99	23.5
1981	14.1	106	3043	178	99	24.9	14.1	106	3043	178	99	24.9
1982	14.2	106	3027	172	99	25.9	14.2	106	3043	175	100	25.7
1983	13.9	109	3101	181	104	25.8	14.0	107	3043	175	102	26.3
1984	13.7	108	3097	179	106	26.2	13.7	106	3043	175	104	26.6
1985	13.2	108	3091	177	111	26.9	13.3	107	3043	173	109	27.4
1986	13.2	107	3041	167	111	27.9	13.3	107	3043	171	110	28.0
1987	13.0	107	3030	162	112	28.1	13.2	107	3043	167	112	28.1
1988	12.8	107	3047	160	116	28.6	12.9	107	3043	164	114	28.8
1989	12.4	108	3099	163	121	28.1	12.7	107	3043	160	116	28.9
1990	12.1	107	3176	163	129	27.8	12.4	104	3043	154	120	29.2
1991	11.8	107	3153	163	132	28.0	12.0	105	3043	155	126	29.2
1992	11.5	108	3240	170	141	27.6	11.8	105	3043	154	129	29.5
1993	11.6	108	3207	166	138	28.2	11.8	106	3043	155	128	29.7
1994	11.4	108	3250	168	143	28.0	11.9	105	3043	152	130	29.9
1995	10.9	109	3262	167	152	28.3	11.4	105	3043	150	138	30.4
1996	10.8	109	3281	165	154	28.3	11.3	106	3043	150	138	30.5
1997	10.7	109	3274	164	156	28.4	11.4	104	3043	146	139	30.5
1998	10.6	109	3306	164	159	28.5	11.2	104	3043	145	141	30.6
1999	10.5	109	3365	166	164	28.1	11.1	102	3043	143	141	30.5
2000	10.3	110	3371	166	168	28.1	10.9	104	3043	142	145	30.8
2001	10.3	109	3381	165	169	28.4	10.9	104	3043	140	144	31.3
2002	10.1	110	3393	166	174	28.5	10.5	106	3043	142	149	32.0
2003	10.0	109	3424	166	177	28.8	10.2	104	3043	138	152	33.2
2004	9.8	110	3467	169	184	28.7	10.1	104	3043	138	154	33.3
2005	9.8	111	3471	168	184	29.2	9.8	101	3043	139	162	32.5
2006	9.5	112	3542	173	196	28.9	9.6	99	3043	138	167	32.4
2007	9.6	110	3517	169	193	29.8	9.6	99	3043	137	172	32.9
2008	9.5	110	3548	171	199	29.8	9.6	98	3043	136	171	32.9

Table Q-10

Characteristics of 1975 TO 2008 Trucks

Using Each Year's Weight Mix						Using 1981 Weight Mix					
Year	0-60		CID	HP	55/45	Time	0-60		HP	55/45	
	Time	Weight			Lab. MPG		Weight	Lab. MPG			
1975	13.6	4072	311	142	13.7	13.9	3841	282	132	14.6	
1976	13.8	4155	319	141	14.4	14.0	3841	285	130	15.6	
1977	13.3	4135	318	147	15.6	13.5	3841	287	135	17.1	
1978	13.3	4149	314	146	15.2	13.5	3841	282	134	16.6	
1979	14.2	4239	297	138	14.7	14.1	3841	264	127	16.4	
1980	14.4	3848	247	121	18.4	14.5	3841	250	121	18.5	
1981	14.4	3841	252	121	19.7	14.4	3841	252	121	19.7	
1982	14.1	3766	243	122	20.0	14.1	3841	253	124	19.6	
1983	14.4	3732	228	118	20.6	14.5	3841	243	121	20.0	
1984	14.6	3770	223	118	20.3	14.6	3841	239	121	19.8	
1985	14.1	3787	223	124	20.5	13.9	3841	237	128	20.2	
1986	13.9	3732	211	123	21.4	13.9	3841	229	127	20.8	
1987	13.3	3710	210	131	21.6	13.3	3841	226	136	20.9	
1988	12.9	3838	227	141	21.2	12.9	3841	229	141	21.3	
1989	12.8	3919	234	146	20.9	12.8	3841	227	142	21.3	
1990	12.6	4003	237	151	20.7	12.8	3841	221	143	21.5	
1991	12.5	3946	228	150	21.3	12.9	3841	214	142	21.8	
1992	12.5	4055	234	155	20.8	12.6	3841	214	145	21.9	
1993	12.1	4073	235	162	21.0	12.5	3841	212	150	22.1	
1994	12.0	4125	239	166	20.8	12.3	3841	212	152	22.0	
1995	12.0	4184	244	168	20.5	12.1	3841	212	153	21.9	
1996	11.5	4224	243	179	20.8	11.7	3841	208	161	22.5	
1997	11.4	4344	248	187	20.6	11.5	3841	205	163	22.6	
1998	11.2	4282	242	187	20.9	11.4	3841	205	166	22.7	
1999	11.0	4412	249	197	20.5	11.3	3841	202	168	23.1	
2000	11.0	4375	242	197	20.8	11.3	3841	199	168	23.2	
2001	10.6	4463	243	209	20.6	10.9	3841	198	175	23.4	
2002	10.4	4546	244	219	20.6	10.3	3841	191	185	24.0	
2003	10.4	4586	243	221	20.9	10.4	3841	189	185	24.8	
2004	10.0	4710	252	236	20.8	10.0	3841	193	193	24.9	
2005	10.0	4669	245	237	21.4	9.9	3841	187	194	26.0	
2006	10.0	4669	241	235	21.6	10.0	3841	181	192	27.4	
2007	9.7	4745	246	249	22.0	9.8	3841	178	198	26.9	
2008	9.7	4742	241	252	22.4	9.9	3841	173	198	27.6	

Table Q-11

Average Car and Light Truck Laboratory 55/45 Fuel Economy

For Model Years 1975 to 2008

For Cars Calculated Using:				For Trucks Calculated Using:		
Model Year	Each Year's Data	1981 Weight Mix	1981 Size Mix	Each Year's Data	1981 Weight Mix	1981 Size Mix
1975	15.8	20.6	15.8	13.7	14.6	14.5
1976	17.4	22.5	17.9	14.4	15.6	15.5
1977	18.3	23.3	19.0	15.6	17.1	16.7
1978	19.8	23.0	20.5	15.2	16.6	16.4
1979	20.1	22.7	20.6	14.7	16.4	15.4
1980	23.2	23.5	22.9	18.4	18.5	18.1
1981	24.9	24.9	24.9	19.7	19.7	19.7
1982	25.9	25.7	25.7	20.0	19.6	19.4
1983	25.8	26.3	26.0	20.6	20.0	19.5
1984	26.2	26.6	26.0	20.3	19.8	19.3
1985	26.9	27.4	27.1	20.5	20.2	19.5
1986	27.9	28.0	27.7	21.4	20.8	20.0
1987	28.1	28.1	27.9	21.6	20.9	19.7
1988	28.6	28.8	28.5	21.2	21.3	19.8
1989	28.1	28.9	28.1	20.9	21.3	19.6
1990	27.8	29.2	27.8	20.7	21.5	19.7
1991	28.0	29.2	27.9	21.3	21.8	19.9
1992	27.6	29.5	27.8	20.8	21.9	19.9
1993	28.2	29.7	28.3	21.0	22.1	20.3
1994	28.0	29.9	28.0	20.8	22.0	20.0
1995	28.3	30.4	28.2	20.5	21.9	19.7
1996	28.3	30.5	28.5	20.8	22.5	20.0
1997	28.4	30.5	28.5	20.6	22.6	20.5
1998	28.5	30.6	28.5	20.9	22.7	20.3
1999	28.1	30.5	28.3	20.5	23.1	20.0
2000	28.1	30.8	28.1	20.8	23.2	20.8
2001	28.4	31.3	27.6	20.6	23.4	20.6
2002	28.5	32.0	27.7	20.6	24.0	20.1
2003	28.8	33.2	27.7	20.9	24.8	20.5
2004	28.7	33.3	27.9	20.8	24.9	20.4
2005	29.2	32.5	28.6	21.4	26.0	21.2
2006	28.9	32.4	29.4	21.6	27.4	21.5
2007	29.8	32.9	30.1	22.0	26.9	22.3
2008	29.8	32.9	30.2	22.4	27.6	22.4

Table Q-12

Characteristics of 1975 TO 2008 Cars

Using Each Year's Size Class Mix							Using 1988 Size Class Mix							
Year	0-60		Weight	CID	HP	55/45	Ton	0-60		Weight	CID	HP	55/45	Ton
	Time	Vol				Lab.	MPG	Time	Vol				Lab.	MPG
1975	14.2		4059	289	136	15.8	27.5	14.2		4077	296	137	15.6	27.4
1976	14.4		4060	287	134	17.4	30.2	14.5		4044	288	132	17.4	30.0
1977	13.9	110	3947	280	134	18.3	30.9	14.1	108	3965	280	132	18.3	31.0
1978	13.7	109	3588	252	125	19.8	30.5	13.9	107	3550	245	121	20.0	30.4
1979	13.7	109	3476	238	120	20.1	29.9	13.8	107	3517	242	120	19.7	29.6
1980	14.1	104	3084	186	101	23.2	30.6	14.0	108	3205	198	106	22.2	30.4
1981	14.1	106	3043	178	99	24.9	32.3	14.0	107	3029	174	100	24.9	32.2
1982	14.2	106	3027	172	99	25.9	33.6	14.2	107	3010	166	98	26.2	33.8
1983	13.9	109	3101	181	104	25.8	34.4	14.0	107	3046	173	102	26.3	34.4
1984	13.7	108	3097	179	106	26.2	34.8	13.8	107	3052	173	104	26.6	34.9
1985	13.2	108	3091	177	111	26.9	35.7	13.2	107	3031	169	109	27.4	35.7
1986	13.2	107	3041	167	111	27.9	36.2	13.2	107	3022	165	110	28.1	36.2
1987	13.0	107	3030	162	112	28.1	36.2	13.1	107	3025	161	112	28.1	36.2
1988	12.8	107	3047	160	116	28.6	36.9	12.8	107	3047	160	116	28.6	36.9
1989	12.4	108	3099	163	121	28.1	36.8	12.5	107	3069	159	120	28.4	36.7
1990	12.1	107	3176	163	129	27.8	37.1	12.1	107	3155	161	127	27.9	37.0
1991	11.8	107	3153	163	132	28.0	37.0	11.9	108	3160	162	132	27.9	37.0
1992	11.5	108	3240	170	141	27.6	37.4	11.6	108	3207	166	139	27.7	37.2
1993	11.6	108	3207	166	138	28.2	37.7	11.6	108	3174	163	136	28.4	37.5
1994	11.4	108	3250	168	143	28.0	37.9	11.5	108	3219	164	141	28.3	37.8
1995	10.9	109	3262	167	152	28.3	38.3	10.9	107	3221	163	150	28.7	38.3
1996	10.8	109	3281	165	154	28.3	38.3	10.8	107	3221	161	151	28.8	38.3
1997	10.7	109	3274	164	156	28.4	38.3	10.8	107	3214	158	152	28.8	38.2
1998	10.6	109	3306	164	159	28.5	38.7	10.6	107	3231	159	155	28.9	38.5
1999	10.5	109	3365	166	164	28.1	38.7	10.6	107	3285	160	159	28.7	38.6
2000	10.3	110	3371	166	168	28.1	38.6	10.5	107	3276	157	160	28.7	38.4
2001	10.3	109	3381	165	169	28.4	39.0	10.3	106	3316	162	166	28.7	38.8
2002	10.1	110	3393	166	174	28.5	39.1	10.1	106	3331	164	171	28.8	38.9
2003	10.0	109	3424	166	177	28.8	39.8	10.0	106	3386	165	175	28.8	39.4
2004	9.8	110	3467	169	184	28.7	40.0	9.8	107	3395	165	180	28.9	39.4
2005	9.8	111	3471	168	184	29.2	40.4	9.9	108	3379	162	179	29.5	39.8
2006	9.5	112	3542	173	196	28.9	41.0	9.6	108	3435	165	188	29.7	40.8
2007	9.6	110	3517	169	193	29.8	41.9	9.8	108	3426	161	185	30.3	41.5
2008	9.5	110	3548	171	199	29.8	42.3	9.6	107	3447	161	189	30.5	42.0

Table Q-13

Characteristics of 1975 TO 2008 Trucks

Using Each Year's Size Class Mix							Using 1988 Size Class Mix						
Year	0-60 Time	Weight	CID	HP	55/45 Lab. MPG	Ton MPG	Year	0-60 Time	Weight	CID	HP	55/45 Lab. MPG	Ton MPG
1975	13.6	4072	311	142	13.7	24.2	1975	14.7	3815	259	123	15.0	24.8
1976	13.8	4155	319	141	14.4	26.0	1976	15.1	3847	261	121	15.9	26.8
1977	13.3	4135	318	147	15.6	28.0	1977	14.4	3854	267	127	17.4	29.9
1978	13.3	4149	314	146	15.2	27.4	1978	14.4	3859	267	127	17.0	29.3
1979	14.2	4239	297	138	14.7	27.0	1979	14.8	3975	262	124	15.9	28.0
1980	14.4	3848	247	121	18.4	30.3	1980	14.8	3848	244	119	18.4	30.5
1981	14.4	3841	252	121	19.7	32.4	1981	14.7	3793	238	117	19.7	32.1
1982	14.1	3766	243	122	20.0	32.3	1982	14.2	3802	244	123	19.6	32.1
1983	14.4	3732	228	118	20.6	33.2	1983	14.4	3808	235	121	20.2	33.1
1984	14.6	3770	223	118	20.3	33.1	1984	14.6	3781	223	118	20.3	33.1
1985	14.1	3787	223	124	20.5	33.6	1985	14.1	3756	220	123	20.7	33.5
1986	13.9	3732	211	123	21.4	34.2	1986	13.9	3757	214	124	21.2	34.1
1987	13.3	3710	210	131	21.6	34.2	1987	13.2	3796	221	135	21.1	34.1
1988	12.9	3838	227	141	21.2	34.5	1988	12.9	3838	227	141	21.2	34.5
1989	12.8	3919	234	146	20.9	34.7	1989	12.8	3892	232	145	21.0	34.6
1990	12.6	4003	237	151	20.7	35.0	1990	12.6	3930	231	148	21.0	34.8
1991	12.5	3946	228	150	21.3	35.3	1991	12.6	3933	229	148	21.2	35.0
1992	12.5	4055	234	155	20.8	35.4	1992	12.6	3987	230	151	21.0	35.1
1993	12.1	4073	235	162	21.0	35.7	1993	12.2	3973	229	156	21.3	35.3
1994	12.0	4125	239	166	20.8	35.7	1994	12.1	4037	233	161	21.2	35.5
1995	12.0	4184	244	168	20.5	35.7	1995	12.1	4045	233	161	21.2	35.6
1996	11.5	4224	243	179	20.8	36.6	1996	11.7	4072	229	170	21.6	36.5
1997	11.4	4344	248	187	20.6	36.9	1997	11.6	4140	229	175	21.6	37.0
1998	11.2	4282	242	187	20.9	36.8	1998	11.3	4125	228	179	21.6	36.9
1999	11.0	4412	249	197	20.5	37.0	1999	11.2	4212	232	185	21.2	36.8
2000	11.0	4375	242	197	20.8	37.1	2000	11.2	4127	222	182	21.7	36.7
2001	10.6	4463	243	209	20.6	37.4	2001	10.9	4182	223	190	21.7	37.1
2002	10.4	4546	244	219	20.6	38.0	2002	10.7	4295	229	201	21.3	37.3
2003	10.4	4586	243	221	20.9	38.7	2003	10.8	4267	223	197	21.9	37.9
2004	10.0	4710	252	236	20.8	39.4	2004	10.3	4411	234	215	21.7	38.7
2005	10.0	4669	245	237	21.4	40.1	2005	10.3	4326	221	212	22.5	39.2
2006	10.0	4669	241	235	21.6	40.6	2006	10.3	4357	222	214	22.7	39.9
2007	9.7	4745	246	249	22.0	41.9	2007	10.1	4317	225	222	22.9	40.5
2008	9.7	4742	241	252	22.4	42.7	2008	10.1	4362	225	225	23.2	41.3

Table Q-14

Characteristics of 1975 TO 2008 Cars

Using Each Year's Weight Mix						Using 1988 Weight Mix						
Year	0-60		Weight	CID	HP	55/45 Lab. MPG	0-60 Time	Vol	Weight	CID	HP	55/45 Lab. MPG
	Time	Vol										
1975	14.2		4059	289	136	15.8	14.7		3047	165	96	20.6
1976	14.4		4060	287	134	17.4	14.9		3047	165	94	22.5
1977	13.9	110	3947	280	134	18.3	14.3	93	3047	167	99	23.2
1978	13.7	109	3588	252	125	19.8	14.0	99	3047	180	102	22.8
1979	13.7	109	3476	238	120	20.1	14.0	99	3047	180	102	22.5
1980	14.1	104	3084	186	101	23.2	14.1	103	3047	179	100	23.6
1981	14.1	106	3043	178	99	24.9	14.1	106	3047	176	100	24.9
1982	14.2	106	3027	172	99	25.9	14.1	106	3047	174	101	25.9
1983	13.9	109	3101	181	104	25.8	13.9	107	3047	173	103	26.4
1984	13.7	108	3097	179	106	26.2	13.6	106	3047	172	105	26.8
1985	13.2	108	3091	177	111	26.9	13.2	107	3047	170	110	27.1
1986	13.2	107	3041	167	111	27.9	13.2	107	3047	168	111	27.7
1987	13.0	107	3030	162	112	28.1	13.0	107	3047	163	114	27.9
1988	12.8	107	3047	160	116	28.6	12.8	107	3047	160	116	28.6
1989	12.4	108	3099	163	121	28.1	12.6	107	3047	157	118	28.6
1990	12.1	107	3176	163	129	27.8	12.3	105	3047	151	121	28.9
1991	11.8	107	3153	163	132	28.0	12.0	105	3047	152	126	28.9
1992	11.5	108	3240	170	141	27.6	11.8	105	3047	151	128	29.2
1993	11.6	108	3207	166	138	28.2	11.8	105	3047	152	128	29.5
1994	11.4	108	3250	168	143	28.0	11.8	105	3047	149	128	29.7
1995	10.9	109	3262	167	152	28.3	11.2	105	3047	147	137	30.3
1996	10.8	109	3281	165	154	28.3	11.1	105	3047	145	138	30.4
1997	10.7	109	3274	164	156	28.4	11.2	104	3047	144	138	30.4
1998	10.6	109	3306	164	159	28.5	11.1	104	3047	143	139	30.7
1999	10.5	109	3365	166	164	28.1	11.1	103	3047	140	139	30.5
2000	10.3	110	3371	166	168	28.1	11.0	104	3047	139	142	30.8
2001	10.3	109	3381	165	169	28.4	11.0	104	3047	137	141	31.4
2002	10.1	110	3393	166	174	28.5	10.7	105	3047	138	145	31.8
2003	10.0	109	3424	166	177	28.8	10.5	104	3047	135	148	32.9
2004	9.8	110	3467	169	184	28.7	10.4	104	3047	135	150	33.0
2005	9.8	111	3471	168	184	29.2	10.3	104	3047	134	152	33.1
2006	9.5	112	3542	173	196	28.9	10.2	103	3047	133	155	33.4
2007	9.6	110	3517	169	193	29.8	10.2	103	3047	131	155	34.0
2008	9.5	110	3548	171	199	29.8	10.2	102	3047	130	156	34.2

Table Q-15

Characteristics of 1975 TO 2008 Trucks

Using Each Year's Weight Mix						Using 1988 Weight Mix					
Year	0-60		CID	HP	55/45	Time	0-60		CID	HP	55/45
	Time	Weight			Lab. MPG		Weight	Lab. MPG			
1975	13.6	4072	311	142	13.7	14.1	3838	285	132	14.7	
1976	13.8	4155	319	141	14.4	14.2	3838	289	129	15.6	
1977	13.3	4135	318	147	15.6	13.7	3838	294	135	17.0	
1978	13.3	4149	314	146	15.2	13.7	3838	281	133	16.9	
1979	14.2	4239	297	138	14.7	14.5	3838	266	124	16.2	
1980	14.4	3848	247	121	18.4	14.7	3838	247	119	18.1	
1981	14.4	3841	252	121	19.7	14.6	3838	252	120	19.5	
1982	14.1	3766	243	122	20.0	14.4	3838	247	122	19.6	
1983	14.4	3732	228	118	20.6	14.6	3838	233	120	20.1	
1984	14.6	3770	223	118	20.3	14.8	3838	228	119	20.0	
1985	14.1	3787	223	124	20.5	14.2	3838	227	125	20.2	
1986	13.9	3732	211	123	21.4	14.0	3838	221	127	20.8	
1987	13.3	3710	210	131	21.6	13.3	3838	222	136	20.9	
1988	12.9	3838	227	141	21.2	12.9	3838	227	141	21.2	
1989	12.8	3919	234	146	20.9	12.8	3838	227	143	21.3	
1990	12.6	4003	237	151	20.7	12.6	3838	222	145	21.6	
1991	12.5	3946	228	150	21.3	12.6	3838	220	146	21.7	
1992	12.5	4055	234	155	20.8	12.5	3838	217	147	21.9	
1993	12.1	4073	235	162	21.0	12.2	3838	216	152	22.1	
1994	12.0	4125	239	166	20.8	12.1	3838	214	153	22.1	
1995	12.0	4184	244	168	20.5	12.0	3838	213	154	22.1	
1996	11.5	4224	243	179	20.8	11.6	3838	209	161	22.6	
1997	11.4	4344	248	187	20.6	11.6	3838	203	162	22.8	
1998	11.2	4282	242	187	20.9	11.4	3838	202	165	23.0	
1999	11.0	4412	249	197	20.5	11.3	3838	199	167	23.1	
2000	11.0	4375	242	197	20.8	11.2	3838	198	169	23.1	
2001	10.6	4463	243	209	20.6	10.8	3838	194	177	23.3	
2002	10.4	4546	244	219	20.6	10.5	3838	190	183	23.8	
2003	10.4	4586	243	221	20.9	10.6	3838	188	182	24.3	
2004	10.0	4710	252	236	20.8	10.1	3838	192	190	24.5	
2005	10.0	4669	245	237	21.4	10.1	3838	188	192	25.3	
2006	10.0	4669	241	235	21.6	10.4	3838	180	186	27.1	
2007	9.7	4745	246	249	22.0	10.3	3838	178	190	26.8	
2008	9.7	4742	241	252	22.4	10.2	3838	174	191	27.5	

Table Q-16

Average Car and Light Truck Laboratory 55/45 Fuel Economy

For Model Years 1975 to 2008

For Cars Calculated Using:				For Trucks Calculated Using:		
Model Year	Each Year's Data	1988 Weight Mix	1988 Size Mix	Each Year's Data	1988 Weight Mix	1988 Size Mix
1975	15.8	20.6	15.6	13.7	14.7	15.0
1976	17.4	22.5	17.4	14.4	15.6	15.9
1977	18.3	23.2	18.3	15.6	17.0	17.4
1978	19.8	22.8	20.0	15.2	16.9	17.0
1979	20.1	22.5	19.7	14.7	16.2	15.9
1980	23.2	23.6	22.2	18.4	18.1	18.4
1981	24.9	24.9	24.9	19.7	19.5	19.7
1982	25.9	25.9	26.2	20.0	19.6	19.6
1983	25.8	26.4	26.3	20.6	20.1	20.2
1984	26.2	26.8	26.6	20.3	20.0	20.3
1985	26.9	27.1	27.4	20.5	20.2	20.7
1986	27.9	27.7	28.1	21.4	20.8	21.2
1987	28.1	27.9	28.1	21.6	20.9	21.1
1988	28.6	28.6	28.6	21.2	21.2	21.2
1989	28.1	28.6	28.4	20.9	21.3	21.0
1990	27.8	28.9	27.9	20.7	21.6	21.0
1991	28.0	28.9	27.9	21.3	21.7	21.2
1992	27.6	29.2	27.7	20.8	21.9	21.0
1993	28.2	29.5	28.4	21.0	22.1	21.3
1994	28.0	29.7	28.3	20.8	22.1	21.2
1995	28.3	30.3	28.7	20.5	22.1	21.2
1996	28.3	30.4	28.8	20.8	22.6	21.6
1997	28.4	30.4	28.8	20.6	22.8	21.6
1998	28.5	30.7	28.9	20.9	23.0	21.6
1999	28.1	30.5	28.7	20.5	23.1	21.2
2000	28.1	30.8	28.7	20.8	23.1	21.7
2001	28.4	31.4	28.7	20.6	23.3	21.7
2002	28.5	31.8	28.8	20.6	23.8	21.3
2003	28.8	32.9	28.8	20.9	24.3	21.9
2004	28.7	33.0	28.9	20.8	24.5	21.7
2005	29.2	33.1	29.5	21.4	25.3	22.5
2006	28.9	33.4	29.7	21.6	27.1	22.7
2007	29.8	34.0	30.3	22.0	26.8	22.9
2008	29.8	34.2	30.5	22.4	27.5	23.2