Appendix C Base Case Simulations

Key to vehicle classes:

1 Domestic and foreign gas mini car
2 Domestic gas subcompact car
3 Domestic gas compact car
4 Domestic gas large car
5 Foreign regular gas car
6 Foreign luxury gas car
7 Domestic and foreign diesel mini car
8 Domestic diesel subcompact car
9 Domestic diesel compact car
10 Domestic diesel large car
11 Foreign regular diesel car
12 Foreign luxury diesel car
13 Domestic and foreign electric car
14 Domestic and foreign methanol compact car
15 Domestic and foreign methanol large car
16 Domestic and foreign LPG compact car
17 Domestic and foreign LPG large car
18 Small gas pickups and utility vehicles
19 Large gas pickups and utility vehicles
20 Small diesel pickups and utility vehicles
21 Large diesel pickups and utility vehicles
22 Small gas vans and other vehicles
23 Large gas vans and other vehicles
24 Small diesel vans and other vehicles
25 Large diesel vans and other vehicles

Table C.1
Base case simulations

PERSONAL VEHICLE DATA FOR 1980

CLASS	NO. VEHICLES	VMT	FUEL USE GALLONS OR KWH
1	0.	0.	0.
2	1200234.	11987366138.	637321029.
3	1751689.	16912420828.	1139495292.
4	4841224.	45774033488.	3510605096.
5	3060928.	35454261152.	1441566918.
6	439457.	4489275747.	277274992.
7	0.	0.	0.
8	0.	0.	0.
9	0.	0.	0.
10	36946.	506580053.	21761131.
11	13487.	192686157.	4579377.
12	42840.	567051088.	23166773.
13	0.	0.	0.
14	0.	0.	0.
15	0.	0.	0.
16	0.	0.	0.
17	0.	0.	0.
18	706531.	7783091586.	410279148.
19	1099229.	11124244583.	912085738.
20	0.	0.	0.
21	7073.	93515959.	6089797.
22	0.	0.	0.
23	557036.	6237578164.	425972433.
24	0.	0.	0.
25	0.	0.	0.

PERSONAL VEHICLES OWNED THIS YEAR

CARS:	11386804.
TRUCKS:	2369869.
TOTAL:	13756673.

CAR VMT BY USE CATEGORIES

1:SHORT-URBAN-WORK TRIP MILES:	23039483362.
2:SHORT-URBAN-NONWORK TRIP MILES:	62313548123.
3:OTHER WORK TRIP MILES:	23543678325.
4:OTHER NONWORK TRIP MILES:	6986964839.

TRUCK VMT BY USE CATEGORIES

1:SHORT-URBAN-WORK TRIP MILES:	5993191731.
2:SHORT-URBAN-NONWORK TRIP MILES:	12801371921.
3:OTHER WORK TRIP MILES:	4952055707.
4:OTHER NONWORK TRIP MILES:	1491810933.

TOTAL VMT BY USE CATEGORIES

1:SHORT-URBAN-WORK TRIP MILES:	29032675093.
2:SHORT-URBAN-NONWORK TRIP MILES:	75114920044.
3:OTHER WORK TRIP MILES:	28495734033.
4:OTHER NONWORK TRIP MILES:	8478775772.

PERSONAL VMT

CAR VMT:	115883674650.
TRUCK VMT:	25238430292.
TOTAL VMT:	141122104942.

FUEL USE BY PERSONAL VEHICLES:	CARS	TRUCKS	TOTAL
GASOLINE (GALS):	7006263328.	1748337319.	8754600647.
DIESEL (GALS):	49507281.	6089797.	55597078.
ELECTRICITY (KWH):	0.	0.	0.
METHANOL (GALS):	0.	0.	0.
LPG (GALS):	0.	0.	0.

Table C.1 (continued)

PERSONAL VEHICLE DATA FOR 1990

CLASS	NO. VEHICLES	VMT	FUEL USE GALLONS OR KWH
1	1029941.	13132988744.	284190163.
2	1460523.	17253443128.	559109925.
3	2243711.	26155309272.	969136814.
4	6237942.	75340089946.	2915716651.
5	3020936.	38156445249.	1071821786.
6	553330.	6596447769.	295708660.
7	21579.	303879670.	4761618.
8	64810.	795457121.	15613307.
9	36983.	496026222.	12674261.
10	206834.	2522422122.	72922270.
11	50972.	620091336.	13019241.
12	105833.	1281868290.	40595763.
13	8503.	124574703.	27683267.
14	18881.	239908167.	13455166.
15	28569.	379320140.	23650021.
16	27812.	332132207.	13407471.
17	40649.	513933014.	22432775.
18	720080.	8355117723.	360333184.
19	1521167.	17562808006.	992829497.
20	88996.	995621104.	24967240.
21	65937.	764813196.	31366623.
22	8112.	107717550.	4664271.
23	404248.	5170130852.	307257047.
24	11285.	146042283.	3706878.
25	415091.	5108341964.	205321971.

PERSONAL VEHICLES OWNED THIS YEAR

CARS:	15157806.
TRUCKS:	3234917.
TOTAL:	18392723.

CAR VMT BY USE CATEGORIES

1:SHORT-URBAN-WORK TRIP MILES:	35559500128.
2:SHORT-URBAN-NONWORK TRIP MILES:	103188445500.
3:OTHER WORK TRIP MILES:	34624559930.
4:OTHER NONWORK TRIP MILES:	10871831544.

TRUCK VMT BY USE CATEGORIES

1:SHORT-URBAN-WORK TRIP MILES:	8917054278.
2:SHORT-URBAN-NONWORK TRIP MILES:	19973250228.
3:OTHER WORK TRIP MILES:	7095128083.
4:OTHER NONWORK TRIP MILES:	2225160089.

TOTAL VMT BY USE CATEGORIES

1:SHORT-URBAN-WORK TRIP MILES:	44476554405.
2:SHORT-URBAN-NONWORK TRIP MILES:	123161695728.
3:OTHER WORK TRIP MILES:	41719688014.
4:OTHER NONWORK TRIP MILES:	13096991633.

PERSONAL VMT

CAR VMT:	184244337102.
TRUCK VMT:	38210592678.
TOTAL VMT:	222454929780.

FUEL USE BY PERSONAL VEHICLES:	CARS	TRUCKS	TOTAL
GASOLINE (GALS):	6095683999.	1665083999.	7760767998.
DIESEL (GALS):	159586459.	265362711.	424949170.
ELECTRICITY (KWH):	27683267.	0.	27683267.
METHANOL (GALS):	37105187.	0.	37105187.
LPG (GALS):	35840246.	0.	35840246.

Table C.1 (continued)

PERSONAL VEHICLE DATA FOR 2000

CLASS	NO. VEHICLES	VMT	FUEL USE GALLONS OR KWH
1	1575712.	19310742519.	333254112.
2	1706210.	20311180566.	488489126.
3	2537452.	29949484330.	826850701.
4	7099563.	86704561906.	2508807827.
5	3280048.	41453842821.	899899839.
6	724638.	8810965937.	273917043.
7	91082.	1103742758.	14875781.
8	95749.	1140377941.	17957314.
9	110954.	1318596513.	26145284.
10	267406.	3355219145.	69351915.
11	59462.	731986548.	11972117.
12	129422.	1591465026.	37347832.
13	66581.	813041489.	173637536.
14	48166.	550105123.	24694141.
15	66305.	777893202.	39231019.
16	42284.	489165191.	15361984.
17	63078.	768689617.	25286355.
18	772997.	9042392368.	310712020.
19	1743173.	20149615852.	882657349.
20	98238.	1115756965.	22981138.
21	81673.	945756818.	30885317.
22	12632.	156378810.	5572647.
23	467831.	5958271511.	273913280.
24	20131.	242634067.	5196099.
25	509202.	6199340590.	200129311.

PERSONAL VEHICLES OWNED THIS YEAR

CARS:	17964113.
TRUCKS:	3705877.
TOTAL:	21669990.

CAR VMT BY USE CATEGORIES

1:SHORT-URBAN-WORK TRIP MILES:	43365049618.
2:SHORT-URBAN-NONWORK TRIP MILES:	134405927606.
3:OTHER WORK TRIP MILES:	32266852566.
4:OTHER NONWORK TRIP MILES:	9143230843.

TRUCK VMT BY USE CATEGORIES

1:SHORT-URBAN-WORK TRIP MILES:	10501711832.
2:SHORT-URBAN-NONWORK TRIP MILES:	25169986768.
3:OTHER WORK TRIP MILES:	6361121227.
4:OTHER NONWORK TRIP MILES:	1777327154.

TOTAL VMT BY USE CATEGORIES

1:SHORT-URBAN-WORK TRIP MILES:	53866761450.
2:SHORT-URBAN-NONWORK TRIP MILES:	159575914374.
3:OTHER WORK TRIP MILES:	38627973793.
4:OTHER NONWORK TRIP MILES:	10920557996.

PERSONAL VMT

CAR VMT:	219181060632.
TRUCK VMT:	43810146982.
TOTAL VMT:	262991207614.

FUEL USE BY PERSONAL VEHICLES:	CARS	TRUCKS	TOTAL
GASOLINE (GALS):	5331218647.	1472855295.	6804073942.
DIESEL (GALS):	177650243.	259191865.	436842108.
ELECTRICITY (KWH):	173637536.	0.	173637536.
METHANOL (GALS):	63925161.	0.	63925161.
LPG (GALS):	40648340.	0.	40648340.