

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	VEHICLES NO.	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			FUEL USE
CLASS	NO. VEHICLES	VMT	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.			