

## APPENDIX A. ENDOGENOUS VARIABLE PROJECTIONS

**Table A.1.1.** Projections of Vehicle Miles of Travel, Males, in Miles Driven

National							
	1995	2000	2005	2010	2015	2020	2025
65-69	12,419.43	13,391.87	14,408.57	15,467.94	16,530.28	17,650.29	18,787.30
70-74	10,291.61	10,790.58	11,246.19	11,761.81	12,365.89	13,032.24	13,706.88
75-79	9,422.77	9,781.18	10,277.84	10,837.08	11,451.20	12,070.69	12,709.24
80-84	6,269.21	6,623.69	6,988.77	7,425.86	7,847.33	8,224.61	8,622.38
85+	5,165.97	5,210.01	5,432.09	5,700.20	5,980.47	6,262.81	6,558.96
Midwest							
	1995	2000	2005	2010	2015	2020	2025
65-69	13,287.54	14,389.05	15,571.44	16,785.12	17,899.61	19,094.77	20,333.64
70-74	10,905.65	11,227.94	11,643.83	12,149.97	12,729.93	13,361.46	14,004.53
75-79	8,655.11	8,918.21	9,257.59	9,613.17	10,029.78	10,473.72	10,938.02
80-84	7,799.64	8,052.21	8,470.55	9,026.31	9,493.41	9,895.63	10,308.73
85+	4,218.37	4,391.24	4,581.24	4,813.64	5,047.11	5,267.29	5,496.91
Northeast							
	1995	2000	2005	2010	2015	2020	2025
65-69	10,090.04	10,902.90	11,742.01	12,586.29	13,428.71	14,293.84	15,189.86
70-74	8,825.79	9,131.50	9,494.76	9,892.84	10,351.90	10,841.40	11,342.43
75-79	7,843.85	8,222.43	8,602.90	8,951.16	9,367.02	9,787.95	10,220.92
80-84	6,594.43	6,787.63	7,112.44	7,533.15	7,916.27	8,267.41	8,634.32
85+	4,562.94	4,751.45	4,946.74	5,173.66	5,409.26	5,635.13	5,869.98
South							
	1995	2000	2005	2010	2015	2020	2025
65-69	13,585.74	14,541.74	15,542.88	16,660.85	17,781.16	18,977.10	20,193.32
70-74	10,909.42*	11,366.05	11,851.00	12,383.89	13,051.91	13,787.01	14,534.15
75-79	10,909.42*	11,435.23	12,086.27	12,810.11	13,548.13	14,277.48	15,045.40
80-84	5,335.76*	5,711.24	6,123.98	6,537.83	7,006.61	7,452.95	7,924.09
85+	5,335.76*	5,565.42	5,818.98	6,135.49	6,458.65	6,765.26	7,086.30
West							
	1995	2000	2005	2010	2015	2020	2025
65-69	11,646.94	12,533.98	13,434.20	14,386.11	15,410.01	16,464.56	17,552.55
70-74	10,623.54	10,942.75	11,325.25	11,812.28	12,394.12	13,047.22	13,703.34
75-79	9,152.65	9,502.94	9,918.66	10,414.53	10,996.84	11,611.76	12,247.12
80-84	6,106.40	6,355.69	6,693.20	7,085.57	7,469.86	7,825.59	8,198.57
85+	5,843.41	6,026.66	6,177.43	6,380.49	6,638.30	6,932.11	7,223.09

\*See Appendix C.2 regarding adjustment of the 1995 VMT estimates for Southern men in these age categories.

**Table A.1.2.** Projections of Vehicle Miles of Travel, Males,  
as Percents of 1995 Averages

National							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	107.8%	116.0%	124.5%	133.1%	142.1%	151.3%
70-74	100.0%	104.8%	109.3%	114.3%	120.2%	126.6%	133.2%
75-79	100.0%	103.8%	109.1%	115.0%	121.5%	128.1%	134.9%
80-84	100.0%	105.7%	111.5%	118.4%	125.2%	131.2%	137.5%
85+	100.0%	100.9%	105.2%	110.3%	115.8%	121.2%	127.0%
Midwest							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	108.3%	117.2%	126.3%	134.7%	143.7%	153.0%
70-74	100.0%	103.0%	106.8%	111.4%	116.7%	122.5%	128.4%
75-79	100.0%	103.0%	107.0%	111.1%	115.9%	121.0%	126.4%
80-84	100.0%	103.2%	108.6%	115.7%	121.7%	126.9%	132.2%
85+	100.0%	104.1%	108.6%	114.1%	119.6%	124.9%	130.3%
Northeast							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	108.1%	116.4%	124.7%	133.1%	141.7%	150.5%
70-74	100.0%	103.5%	107.6%	112.1%	117.3%	122.8%	128.5%
75-79	100.0%	104.8%	109.7%	114.1%	119.4%	124.8%	130.3%
80-84	100.0%	102.9%	107.9%	114.2%	120.0%	125.4%	130.9%
85+	100.0%	104.1%	108.4%	113.4%	118.5%	123.5%	128.6%
South							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	107.0%	114.4%	122.6%	130.9%	139.7%	148.6%
70-74	100.0%	104.2%	108.6%	113.5%	119.6%	126.4%	133.2%
75-79	100.0%	104.8%	110.8%	117.4%	124.2%	130.9%	137.9%
80-84	100.0%	107.0%	114.8%	122.5%	131.3%	139.7%	148.5%
85+	100.0%	104.3%	109.1%	115.0%	121.0%	126.8%	132.8%
West							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	107.6%	115.3%	123.5%	132.3%	141.4%	150.7%
70-74	100.0%	103.0%	106.6%	111.2%	116.7%	122.8%	129.0%
75-79	100.0%	103.8%	108.4%	113.8%	120.1%	126.9%	133.8%
80-84	100.0%	104.1%	109.6%	116.0%	122.3%	128.2%	134.3%
85+	100.0%	103.1%	105.7%	109.2%	113.6%	118.6%	123.6%

**Table A.1.3.** Projections of Vehicle Miles of Travel, Females, in Miles Driven

National							
	1995	2000	2005	2010	2015	2020	2025
65-69	5,841.61	6,469.73	7,207.58	8,062.62	9,022.63	10,102.36	11,275.70
70-74	5,054.79	5,989.04	6,537.90	7,147.67	7,831.89	8,603.26	9,435.52
75-79	4,288.47	4,638.78	5,085.04	5,554.26	6,089.60	6,680.07	7,317.29
80-84	3,805.26	4,252.43	4,690.89	5,145.03	5,655.51	6,209.56	6,818.64
85+	2,780.62	3,055.74	3,373.67	3,719.86	4,096.97	4,503.36	4,946.91
Midwest							
	1995	2000	2005	2010	2015	2020	2025
65-69	5,515.17	6,074.43	6,726.88	7,507.64	8,395.19	9,393.56	10,478.21
70-74	5,152.59	6,060.79	6,597.72	7,209.33	7,898.13	8,674.27	9,508.81
75-79	4,034.03	4,345.09	4,744.21	5,174.98	5,653.74	6,178.32	6,742.60
80-84	3,122.46	3,401.80	3,745.11	4,099.42	4,500.43	4,936.49	5,408.45
85+	1,640.07	1,780.83	1,954.92	2,135.83	2,345.64	2,577.12	2,828.30
Northeast							
	1995	2000	2005	2010	2015	2020	2025
65-69	5,182.14	5,733.13	6,370.35	7,085.14	7,892.20	8,789.68	9,770.73
70-74	5,311.19	6,267.71	6,845.26	7,499.25	8,220.52	9,033.87	9,909.71
75-79	4,545.07	4,950.97	5,451.21	5,965.21	6,525.90	7,142.80	7,810.98
80-84	4,348.77	4,731.74	5,197.44	5,664.51	6,195.68	6,775.43	7,403.78
85+	3,074.19	3,336.27	3,675.17	4,042.26	4,434.01	4,847.66	5,296.02
South							
	1995	2000	2005	2010	2015	2020	2025
65-69	6,208.98	6,837.53	7,573.93	8,444.19	9,438.10	10,553.63	11,769.26
70-74	5,297.19	6,282.94	6,884.63	7,547.35	8,296.86	9,144.90	10,062.47
75-79	3,918.65	4,253.23	4,675.10	5,134.73	5,647.50	6,202.55	6,802.69
80-84	4,378.41	4,772.09	5,274.12	5,815.45	6,405.91	7,034.19	7,717.74
85+	3,207.43	3,505.66	3,881.74	4,278.36	4,714.14	5,175.27	5,678.42
West							
	1995	2000	2005	2010	2015	2020	2025
65-69	6,252.37	6,980.89	7,819.96	8,772.16	9,800.14	10,973.97	12,255.83
70-74	4,283.68	5,044.84	5,502.99	6,017.41	6,581.31	7,216.38	7,900.55
75-79	4,941.45	5,368.45	5,881.23	6,400.80	7,009.10	7,681.64	8,410.64
80-84	3,524.51	3,842.27	4,214.57	4,598.92	5,058.71	5,577.30	6,138.18
85+	3,437.32	3,690.90	4,017.76	4,367.58	4,759.88	5,197.05	5,667.40

**Table A.1.4.** Projections of Vehicle Miles of Travel, Females,  
as Percents of 1995 Averages

National							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	110.8%	123.4%	138.0%	154.5%	172.9%	193.0%
70-74	100.0%	118.5%	129.3%	141.4%	154.9%	170.2%	186.7%
75-79	100.0%	108.2%	118.6%	129.5%	142.0%	155.8%	170.6%
80-84	100.0%	111.8%	123.3%	135.2%	148.6%	163.2%	179.2%
85+	100.0%	109.9%	121.3%	133.8%	147.3%	162.0%	177.9%
Midwest							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	110.1%	122.0%	136.1%	152.2%	170.3%	190.0%
70-74	100.0%	117.6%	128.0%	139.9%	153.3%	168.3%	184.5%
75-79	100.0%	107.7%	117.6%	128.3%	140.2%	153.2%	167.1%
80-84	100.0%	108.9%	119.9%	131.3%	144.1%	158.1%	173.2%
85+	100.0%	108.6%	119.2%	130.2%	143.0%	157.1%	172.4%
Northeast							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	110.6%	122.9%	136.7%	152.3%	169.6%	188.5%
70-74	100.0%	118.0%	128.9%	141.2%	154.8%	170.1%	186.6%
75-79	100.0%	108.9%	119.9%	131.2%	143.6%	157.2%	171.9%
80-84	100.0%	108.8%	119.5%	130.3%	142.5%	155.8%	170.2%
85+	100.0%	108.5%	119.5%	131.5%	144.2%	157.7%	172.3%
South							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	110.1%	122.0%	136.0%	152.0%	170.0%	189.6%
70-74	100.0%	118.6%	130.0%	142.5%	156.6%	172.6%	190.0%
75-79	100.0%	108.5%	119.3%	131.0%	144.1%	158.3%	173.6%
80-84	100.0%	109.0%	120.5%	132.8%	146.3%	160.7%	176.3%
85+	100.0%	109.3%	121.0%	133.4%	147.0%	161.4%	177.0%
West							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	111.7%	125.1%	140.3%	156.7%	175.5%	196.0%
70-74	100.0%	117.8%	128.5%	140.5%	153.6%	168.5%	184.4%
75-79	100.0%	108.6%	119.0%	129.5%	141.8%	155.5%	170.2%
80-84	100.0%	109.0%	119.6%	130.5%	143.5%	158.2%	174.2%
85+	100.0%	107.4%	116.9%	127.1%	138.5%	151.2%	164.9%

**Table A.2.1.** Projections of Drivers in Age Groups, Males, Percentages

National							
	1995	2000	2005	2010	2015	2020	2025
65-69	84.46%	90.11%	90.08%	90.41%	90.67%	90.94%	91.15%
70-74	85.83%	87.74%	88.06%	88.43%	88.90%	89.39%	89.82%
75-79	78.36%	82.59%	83.32%	83.95%	84.50%	84.96%	85.38%
80-84	69.19%	73.91%	76.13%	78.10%	79.80%	81.26%	82.53%
85+	53.56%	58.18%	60.84%	62.62%	63.88%	64.80%	65.52%
Midwest							
	1995	2000	2005	2010	2015	2020	2025
65-69	84.27%	91.76%	90.67%	91.05%	91.27%	91.51%	91.73%
70-74	87.50%	88.00%	88.24%	88.51%	88.82%	89.14%	89.42%
75-79	79.46%	84.06%	85.16%	86.12%	86.96%	87.68%	88.30%
80-84	75.46%	78.14%	80.75%	83.01%	84.78%	86.19%	87.35%
85+	61.47%	66.02%	68.41%	69.73%	70.49%	70.93%	71.24%
Northeast							
	1995	2000	2005	2010	2015	2020	2025
65-69	80.62%	86.97%	86.87%	86.83%	86.80%	86.81%	86.87%
70-74	84.87%	87.61%	88.09%	88.50%	88.95%	89.38%	89.74%
75-79	79.65%	83.62%	84.59%	85.31%	85.94%	86.44%	86.84%
80-84	63.94%	72.80%	75.35%	77.86%	80.11%	82.14%	84.00%
85+	58.03%	58.62%	62.05%	64.33%	65.85%	66.85%	67.56%
South							
	1995	2000	2005	2010	2015	2020	2025
65-69	85.50%	89.02%	89.18%	89.44%	89.63%	89.85%	90.03%
70-74	84.16%	86.28%	86.77%	87.27%	87.95%	88.65%	89.28%
75-79	75.66%	80.63%	81.16%	81.72%	82.21%	82.62%	83.02%
80-84	59.83%	66.94%	69.01%	70.99%	72.93%	74.72%	76.41%
85+	38.82%	43.30%	46.31%	48.89%	51.00%	52.69%	54.09%
West							
	1995	2000	2005	2010	2015	2020	2025
65-69	86.97%	93.20%	93.83%	94.38%	94.86%	95.26%	95.60%
70-74	87.57%	90.16%	90.19%	90.33%	90.58%	90.89%	91.15%
75-79	79.59%	83.22%	83.74%	84.24%	84.73%	85.16%	85.54%
80-84	81.65%	81.76%	83.66%	84.99%	85.89%	86.50%	86.94%
85+	65.60%	72.76%	74.32%	74.99%	75.37%	75.63%	75.81%

**Table A.2.2.** Projections of Drivers in Age Groups, Males,  
as Percentages of 1995 Percentages

National							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	106.7%	106.6%	107.0%	107.4%	107.7%	107.9%
70-74	100.0%	102.2%	102.6%	103.0%	103.6%	104.1%	104.6%
75-79	100.0%	105.4%	106.3%	107.1%	107.8%	108.4%	109.0%
80-84	100.0%	106.8%	110.0%	112.9%	115.3%	117.4%	119.3%
85+	100.0%	108.6%	113.6%	116.9%	119.3%	121.0%	122.3%
Midwest							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	108.9%	107.6%	108.1%	108.3%	108.6%	108.9%
70-74	100.0%	100.6%	100.8%	101.2%	101.5%	101.9%	102.2%
75-79	100.0%	105.8%	107.2%	108.4%	109.4%	110.3%	111.1%
80-84	100.0%	103.6%	107.0%	110.0%	112.3%	114.2%	115.8%
85+	100.0%	107.4%	111.3%	113.4%	114.7%	115.4%	115.9%
Northeast							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	107.9%	107.8%	107.7%	107.7%	107.7%	107.8%
70-74	100.0%	103.2%	103.8%	104.3%	104.8%	105.3%	105.7%
75-79	100.0%	105.0%	106.2%	107.1%	107.9%	108.5%	109.0%
80-84	100.0%	113.9%	117.8%	121.8%	125.3%	128.5%	131.4%
85+	100.0%	101.0%	106.9%	110.8%	113.5%	115.2%	116.4%
South							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	104.1%	104.3%	104.6%	104.8%	105.1%	105.3%
70-74	100.0%	102.5%	103.1%	103.7%	104.5%	105.3%	106.1%
75-79	100.0%	106.6%	107.3%	108.0%	108.7%	109.2%	109.7%
80-84	100.0%	111.9%	115.3%	118.7%	121.9%	124.9%	127.7%
85+	100.0%	111.5%	119.3%	125.9%	131.4%	135.7%	139.3%
West							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	107.2%	107.9%	108.5%	109.1%	109.5%	109.9%
70-74	100.0%	103.0%	103.0%	103.2%	103.4%	103.8%	104.1%
75-79	100.0%	104.6%	105.2%	105.8%	106.5%	107.0%	107.5%
80-84	100.0%	100.1%	102.5%	104.1%	105.2%	105.9%	106.5%
85+	100.0%	110.9%	113.3%	114.3%	114.9%	115.3%	115.6%

**Table A.2.3.** Projections of Drivers in Age Groups, Females, Percentages

National							
	1995	2000	2005	2010	2015	2020	2025
65-69	65.14%	72.82%	75.63%	78.10%	80.28%	82.17%	83.65%
70-74	55.30%	62.91%	65.26%	67.34%	69.14%	70.88%	72.36%
75-79	48.45%	52.56%	55.67%	58.75%	61.54%	63.94%	66.09%
80-84	38.06%	44.57%	48.38%	51.38%	53.90%	55.91%	57.45%
85+	19.23%	25.65%	29.78%	33.38%	36.44%	39.00%	41.07%
Midwest							
	1995	2000	2005	2010	2015	2020	2025
65-69	66.24%	74.66%	78.01%	81.24%	84.15%	86.70%	88.86%
70-74	55.39%	66.23%	67.76%	68.95%	69.91%	70.80%	71.47%
75-79	56.61%	55.60%	58.73%	61.48%	63.77%	65.67%	67.20%
80-84	45.36%	51.95%	55.21%	57.27%	58.66%	59.59%	60.25%
85+	26.79%	33.09%	38.58%	43.12%	46.95%	50.04%	52.48%
Northeast							
	1995	2000	2005	2010	2015	2020	2025
65-69	59.40%	61.68%	62.14%	62.61%	63.13%	63.67%	64.15%
70-74	51.30%	54.89%	55.56%	56.26%	56.89%	57.64%	58.28%
75-79	42.42%	44.27%	44.66%	45.02%	45.33%	45.65%	45.95%
80-84	33.43%	36.05%	38.27%	39.84%	41.03%	41.91%	42.56%
85+	9.98%	15.38%	17.16%	18.86%	20.24%	21.32%	22.20%
South							
	1995	2000	2005	2010	2015	2020	2025
65-69	62.76%	73.47%	76.19%	78.63%	80.73%	82.51%	83.96%
70-74	54.10%	62.58%	65.05%	67.02%	68.71%	70.25%	71.49%
75-79	44.51%	52.38%	56.13%	59.68%	62.86%	65.64%	68.05%
80-84	30.08%	40.64%	44.89%	48.59%	51.61%	54.02%	56.00%
85+	19.72%	27.07%	32.34%	37.19%	41.40%	44.86%	47.77%
West							
	1995	2000	2005	2010	2015	2020	2025
65-69	74.28%	80.69%	84.31%	87.26%	89.56%	91.43%	92.90%
70-74	61.80%	68.28%	72.23%	75.98%	79.36%	82.48%	85.16%
75-79	52.10%	58.35%	62.77%	66.82%	70.61%	74.00%	76.97%
80-84	49.38%	52.18%	57.40%	61.40%	64.61%	67.14%	69.07%
85+	18.04%	24.62%	27.23%	29.29%	30.84%	32.06%	32.94%

**Table A.2.4.** Projections of Drivers in Age Groups, Females,  
as Percentages of 1995 Percentages

National							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	111.8%	116.1%	119.9%	123.2%	126.1%	128.4%
70-74	100.0%	113.8%	118.0%	121.8%	125.0%	128.2%	130.8%
75-79	100.0%	108.5%	114.9%	121.3%	127.0%	132.0%	136.4%
80-84	100.0%	117.1%	127.1%	135.0%	141.6%	146.9%	150.9%
85+	100.0%	133.4%	154.9%	173.6%	189.5%	202.8%	213.6%
Midwest							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	112.7%	117.8%	122.6%	127.0%	130.9%	134.1%
70-74	100.0%	119.6%	122.3%	124.5%	126.2%	127.8%	129.0%
75-79	100.0%	98.2%	103.7%	108.6%	112.6%	116.0%	118.7%
80-84	100.0%	114.5%	121.7%	126.3%	129.3%	131.4%	132.8%
85+	100.0%	123.5%	144.0%	161.0%	175.2%	186.8%	195.9%
Northeast							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	103.8%	104.6%	105.4%	106.3%	107.2%	108.0%
70-74	100.0%	107.0%	108.3%	109.7%	110.9%	112.4%	113.6%
75-79	100.0%	104.4%	105.3%	106.1%	106.8%	107.6%	108.3%
80-84	100.0%	107.8%	114.5%	119.2%	122.7%	125.4%	127.3%
85+	100.0%	154.1%	172.0%	189.0%	202.8%	213.6%	222.5%
South							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	117.1%	121.4%	125.3%	128.6%	131.5%	133.8%
70-74	100.0%	115.7%	120.2%	123.9%	127.0%	129.9%	132.1%
75-79	100.0%	117.7%	126.1%	134.1%	141.2%	147.5%	152.9%
80-84	100.0%	135.1%	149.3%	161.5%	171.6%	179.6%	186.2%
85+	100.0%	137.3%	164.0%	188.6%	210.0%	227.5%	242.2%
West							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	108.6%	113.5%	117.5%	120.6%	123.1%	125.1%
70-74	100.0%	110.5%	116.9%	122.9%	128.4%	133.5%	137.8%
75-79	100.0%	112.0%	120.5%	128.2%	135.5%	142.0%	147.7%
80-84	100.0%	105.7%	116.2%	124.3%	130.8%	136.0%	139.9%
85+	100.0%	136.5%	151.0%	162.4%	170.9%	177.7%	182.6%



**Table A.3.1.** Elder Driver Fatality Rate Projections, Males,  
Deaths per 100 Million Miles Driven

National							
	1995	2000	2005	2010	2015	2020	2025
65-69	1.23	1.26	1.21	1.16	1.11	1.06	1.02
70-74	1.71	1.88	1.82	1.74	1.65	1.55	1.47
75-79	3.09	3.25	3.12	2.99	2.85	2.72	2.60
80-84	9.63	8.26	7.94	7.57	7.26	6.99	6.76
85+	16.83	16.94	15.57	14.21	13.01	11.98	11.11
Midwest							
	1995	2000	2005	2010	2015	2020	2025
65-69	1.23	1.08	1.02	0.96	0.93	0.89	0.85
70-74	1.56	1.65	1.59	1.52	1.44	1.36	1.30
75-79	2.84	2.87	2.79	2.70	2.60	2.50	2.41
80-84	8.25	5.93	5.72	5.42	5.21	5.06	4.93
85+	16.95	15.67	14.67	13.61	12.66	11.85	11.18
Northeast							
	1995	2000	2005	2010	2015	2020	2025
65-69	0.89	1.02	0.97	0.93	0.89	0.85	0.82
70-74	1.87	1.59	1.52	1.46	1.39	1.32	1.26
75-79	2.84	2.73	2.63	2.53	2.43	2.33	2.25
80-84	5.87	5.80	5.62	5.36	5.16	5.00	4.86
85+	14.51	15.23	14.29	13.34	12.45	11.68	11.05
South							
	1995	2000	2005	2010	2015	2020	2025
65-69	1.39	1.60	1.54	1.47	1.41	1.35	1.30
70-74	1.90	2.35	2.24	2.14	2.01	1.87	1.77
75-79	3.65	4.08	3.87	3.64	3.44	3.27	3.12
80-84	20.03	12.61	11.93	11.30	10.67	10.14	9.68
85+	24.92	23.31	21.77	20.12	18.63	17.35	16.31
West							
	1995	2000	2005	2010	2015	2020	2025
65-69	1.18	1.07	1.02	0.98	0.93	0.89	0.85
70-74	1.46	1.64	1.58	1.52	1.43	1.35	1.28
75-79	2.66	2.79	2.69	2.57	2.43	2.30	2.19
80-84	6.50	6.14	5.91	5.64	5.42	5.23	5.06
85+	9.43	9.77	8.03	6.54	5.28	4.24	3.45

**Table A.3.2.** Elder Driver Fatality Rate Projections, Males, Deaths per 100 Million Miles Driven, as Percentage of 1995 Rates

National							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	102.6%	98.5%	94.2%	90.4%	86.6%	83.5%
70-74	100.0%	110.4%	106.6%	102.2%	96.6%	90.8%	86.0%
75-79	100.0%	105.1%	101.1%	96.7%	92.2%	88.0%	84.3%
80-84	100.0%	85.9%	82.5%	78.7%	75.4%	72.6%	70.2%
85+	100.0%	100.6%	92.5%	84.4%	77.3%	71.2%	66.0%
Midwest							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	88.2%	83.3%	78.8%	75.6%	72.4%	69.7%
70-74	100.0%	105.4%	101.8%	97.3%	92.2%	87.1%	82.9%
75-79	100.0%	100.9%	98.2%	95.0%	91.4%	87.9%	84.8%
80-84	100.0%	71.8%	69.3%	65.7%	63.2%	61.3%	59.7%
85+	100.0%	92.5%	86.5%	80.3%	74.7%	69.9%	66.0%
Northeast							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	114.7%	109.1%	104.1%	99.8%	95.9%	92.6%
70-74	100.0%	85.0%	81.6%	78.3%	74.3%	70.5%	67.3%
75-79	100.0%	95.9%	92.3%	89.1%	85.4%	82.0%	79.1%
80-84	100.0%	99.0%	95.8%	91.4%	88.0%	85.2%	82.8%
85+	100.0%	105.0%	98.5%	91.9%	85.8%	80.5%	76.1%
South							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	115.1%	110.8%	105.6%	101.3%	96.9%	93.4%
70-74	100.0%	123.8%	118.3%	112.8%	105.8%	98.7%	93.0%
75-79	100.0%	111.7%	106.1%	99.8%	94.4%	89.6%	85.4%
80-84	100.0%	63.0%	59.6%	56.4%	53.2%	50.6%	48.3%
85+	100.0%	93.5%	87.3%	80.7%	74.7%	69.6%	65.4%
West							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	90.7%	86.9%	83.0%	79.1%	75.6%	72.6%
70-74	100.0%	112.2%	108.7%	104.1%	98.3%	92.3%	87.6%
75-79	100.0%	104.9%	101.3%	96.5%	91.4%	86.6%	82.4%
80-84	100.0%	94.5%	91.0%	86.9%	83.4%	80.5%	78.0%
85+	100.0%	103.6%	85.2%	69.4%	56.0%	45.0%	36.6%

**Table A.3.3.** Elder Driver Fatality Rate Projections, Females,  
Deaths per 100 Million Miles Driven

National							
	1995	2000	2005	2010	2015	2020	2025
65-69	1.24	1.37	1.32	1.26	1.20	1.14	1.09
70-74	2.49	2.01	1.92	1.83	1.73	1.63	1.54
75-79	4.35	3.64	3.54	3.42	3.28	3.14	3.03
80-84	7.22	7.40	7.16	6.85	6.55	6.26	6.00
85+	16.23	15.43	14.43	13.33	12.32	11.42	10.70
Midwest							
	1995	2000	2005	2010	2015	2020	2025
65-69	1.26	1.16	1.12	1.07	1.01	0.95	0.91
70-74	2.27	1.73	1.67	1.59	1.50	1.42	1.35
75-79	4.97	3.17	3.11	3.00	2.89	2.79	2.70
80-84	6.85	6.54	6.30	6.04	5.75	5.49	5.27
85+	22.07	17.31	16.36	15.34	14.22	13.17	12.33
Northeast							
	1995	2000	2005	2010	2015	2020	2025
65-69	1.04	1.12	1.08	1.03	0.98	0.94	0.90
70-74	2.23	1.68	1.61	1.52	1.44	1.35	1.28
75-79	3.36	3.02	2.91	2.79	2.68	2.57	2.49
80-84	5.59	5.42	5.25	5.08	4.88	4.69	4.53
85+	28.34	17.15	16.08	14.83	13.79	12.92	12.23
South							
	1995	2000	2005	2010	2015	2020	2025
65-69	1.54	1.74	1.68	1.60	1.52	1.44	1.37
70-74	2.74	2.50	2.37	2.24	2.10	1.96	1.85
75-79	5.99	4.60	4.44	4.23	4.02	3.83	3.68
80-84	8.93	9.68	9.23	8.69	8.21	7.82	7.48
85+	15.22	16.03	14.85	13.63	12.54	11.63	10.90
West							
	1995	2000	2005	2010	2015	2020	2025
65-69	0.91	1.17	1.10	1.04	0.99	0.93	0.88
70-74	2.54	1.75	1.68	1.59	1.52	1.43	1.37
75-79	2.52	3.11	3.03	2.94	2.82	2.70	2.60
80-84	6.32	6.59	6.40	6.18	5.86	5.52	5.24
85+	10.16	9.51	9.18	8.71	8.23	7.74	7.36

**Table A.3.4.** Elder Driver Fatality Rate Projections, Females, Deaths per 100 Million Miles Driven, as Percentage of 1995 Rates

National							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	110.3%	106.7%	101.9%	96.8%	91.7%	87.7%
70-74	100.0%	80.6%	77.3%	73.5%	69.5%	65.3%	62.0%
75-79	100.0%	83.7%	81.5%	78.6%	75.4%	72.3%	69.6%
80-84	100.0%	102.5%	99.2%	94.9%	90.7%	86.7%	83.2%
85+	100.0%	95.1%	88.9%	82.2%	75.9%	70.4%	65.9%
Midwest							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	92.0%	89.1%	84.7%	80.3%	75.8%	72.3%
70-74	100.0%	76.4%	73.5%	70.0%	66.3%	62.4%	59.4%
75-79	100.0%	63.8%	62.6%	60.4%	58.2%	56.1%	54.4%
80-84	100.0%	95.6%	92.1%	88.2%	84.0%	80.1%	76.9%
85+	100.0%	78.4%	74.1%	69.5%	64.4%	59.7%	55.9%
Northeast							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	108.0%	103.9%	99.6%	95.0%	90.6%	87.0%
70-74	100.0%	75.5%	72.0%	68.1%	64.5%	60.6%	57.6%
75-79	100.0%	90.0%	86.7%	83.2%	79.9%	76.7%	74.1%
80-84	100.0%	96.9%	93.8%	90.8%	87.3%	83.9%	81.0%
85+	100.0%	60.5%	56.7%	52.3%	48.7%	45.6%	43.2%
South							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	112.9%	109.3%	104.2%	98.8%	93.4%	89.1%
70-74	100.0%	91.5%	86.7%	81.9%	77.0%	71.8%	67.7%
75-79	100.0%	76.8%	74.3%	70.7%	67.2%	64.0%	61.4%
80-84	100.0%	108.4%	103.4%	97.4%	92.0%	87.5%	83.8%
85+	100.0%	105.3%	97.5%	89.5%	82.4%	76.4%	71.6%
West							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	127.8%	120.9%	113.9%	108.1%	102.0%	97.0%
70-74	100.0%	69.0%	66.0%	62.8%	59.7%	56.4%	53.9%
75-79	100.0%	123.6%	120.3%	116.8%	112.0%	107.2%	103.2%
80-84	100.0%	104.2%	101.3%	97.7%	92.6%	87.3%	82.9%
85+	100.0%	93.5%	90.3%	85.7%	81.0%	76.1%	72.4%

**Table A.4.1.** Projected Elderly Driver Fatalities, Males, Total Number of Fatalities

National							
	1995	2000	2005	2010	2015	2020	2025
65-69	614	655	728	912	1203	1414	1637
70-74	598	682	669	736	906	1166	1347
75-79	553	779	815	817	911	1149	1524
80-84	475	664	810	880	915	1069	1402
85+	328	423	504	601	670	699	786
<b>Total</b>	2568	3203	3526	3946	4605	5497	6696
Midwest							
	1995	2000	2005	2010	2015	2020	2025
65-69	157	144	152	181	234	273	310
70-74	147	146	142	150	177	223	257
75-79	125	147	155	155	167	203	266
80-84	131	154	184	199	204	230	289
85+	84	97	114	133	147	152	168
<b>Total</b>	644	689	746	817	928	1081	1290
Northeast							
	1995	2000	2005	2010	2015	2020	2025
65-69	73	81	83	100	127	144	166
70-74	105	99	90	92	110	137	154
75-79	85	113	115	107	112	137	176
80-84	67	103	123	130	127	141	180
85+	41	77	92	110	123	126	138
<b>Total</b>	371	473	503	540	599	685	815
South							
	1995	2000	2005	2010	2015	2020	2025
65-69	273	324	369	470	625	736	857
70-74	234	314	315	353	441	572	661
75-79	235	386	408	416	469	598	798
80-84	198	291	361	398	424	505	675
85+	149	169	212	267	312	340	399
<b>Total</b>	1089	1484	1666	1904	2271	2752	3390
West							
	1995	2000	2005	2010	2015	2020	2025
65-69	111	106	124	161	217	261	303
70-74	112	123	122	140	178	233	274
75-79	108	133	137	140	162	210	284
80-84	79	116	143	153	160	193	258
85+	54	80	86	91	88	81	82
<b>Total</b>	464	558	612	684	806	978	1202

**Table A.4.2.** Projected Elderly Driver Fatalities, Males, Total Number of Fatalities as Percent of 1995 Fatalities

National							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	106.7%	118.5%	148.5%	195.9%	230.3%	266.6%
70-74	100.0%	114.0%	111.9%	123.1%	151.5%	194.9%	225.3%
75-79	100.0%	140.9%	147.4%	147.8%	164.6%	207.8%	275.6%
80-84	100.0%	139.9%	170.6%	185.2%	192.6%	225.0%	295.2%
85+	100.0%	128.9%	153.7%	183.2%	204.4%	213.1%	239.7%
<b>Total</b>	100.0%	124.7%	137.3%	153.6%	179.3%	214.0%	260.7%

  

Midwest							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	92.0%	96.5%	115.3%	148.8%	174.0%	197.3%
70-74	100.0%	99.3%	96.7%	102.0%	120.2%	151.8%	174.8%
75-79	100.0%	117.8%	123.8%	123.8%	133.4%	162.3%	212.5%
80-84	100.0%	117.6%	140.3%	151.7%	156.0%	175.5%	221.0%
85+	100.0%	115.8%	135.6%	158.4%	174.9%	181.0%	200.1%
<b>Total</b>	100.0%	107.0%	115.9%	126.9%	144.2%	167.9%	200.3%

  

Northeast							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	110.5%	114.0%	137.4%	173.8%	197.6%	227.3%
70-74	100.0%	94.2%	85.4%	88.0%	105.2%	130.9%	147.1%
75-79	100.0%	132.9%	135.0%	125.8%	131.8%	161.5%	207.3%
80-84	100.0%	153.8%	183.0%	194.4%	189.1%	209.7%	269.2%
85+	100.0%	188.0%	225.2%	269.5%	300.9%	306.1%	335.7%
<b>Total</b>	100.0%	127.4%	135.5%	145.7%	161.6%	184.6%	219.6%

  

South							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	118.6%	135.1%	172.0%	229.0%	269.7%	314.1%
70-74	100.0%	134.2%	134.8%	151.0%	188.5%	244.4%	282.6%
75-79	100.0%	164.1%	173.6%	176.9%	199.7%	254.6%	339.4%
80-84	100.0%	147.0%	182.5%	201.2%	214.2%	255.2%	340.7%
85+	100.0%	113.3%	142.4%	179.1%	209.3%	228.3%	267.7%
<b>Total</b>	100.0%	136.2%	153.0%	174.8%	208.6%	252.7%	311.3%

  

West							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	95.4%	111.7%	145.0%	195.6%	234.7%	273.4%
70-74	100.0%	109.7%	109.0%	125.3%	158.8%	208.2%	245.0%
75-79	100.0%	123.1%	127.1%	129.3%	150.4%	194.8%	263.3%
80-84	100.0%	147.2%	180.6%	193.2%	202.4%	244.3%	326.0%
85+	100.0%	147.5%	158.4%	167.6%	163.7%	150.6%	151.4%
<b>Total</b>	100.0%	120.2%	131.8%	147.4%	173.6%	210.9%	258.9%

**Table A.4.3.** Projected Elderly Driver Fatalities, Females, Total Number of Fatalities

National							
	1995	2000	2005	2010	2015	2020	2025
65-69	267	328	388	513	709	872	1051
70-74	358	363	371	422	540	722	869
75-79	323	357	397	418	488	645	895
80-84	229	400	514	568	596	701	927
85+	146	247	334	438	532	596	702
<b>Total</b>	1323	1696	2004	2359	2864	3535	4444
Midwest							
	1995	2000	2005	2010	2015	2020	2025
65-69	68	61	71	90	122	149	177
70-74	81	78	77	85	103	134	158
75-79	92	74	81	83	94	118	159
80-84	50	82	98	104	104	116	146
85+	35	57	77	97	115	125	143
<b>Total</b>	326	352	403	459	537	643	784
Northeast							
	1995	2000	2005	2010	2015	2020	2025
65-69	37	39	42	53	69	81	96
70-74	60	58	53	56	69	88	102
75-79	45	58	58	54	57	71	93
80-84	33	58	69	72	68	75	96
85+	24	42	52	64	74	78	87
<b>Total</b>	199	255	275	299	337	393	474
South							
	1995	2000	2005	2010	2015	2020	2025
65-69	117	164	197	264	367	453	550
70-74	153	172	182	210	272	364	439
75-79	137	149	171	186	221	296	414
80-84	99	189	251	284	308	370	496
85+	61	114	159	215	268	308	371
<b>Total</b>	567	787	960	1160	1436	1791	2270
West							
	1995	2000	2005	2010	2015	2020	2025
65-69	45	64	78	106	151	189	228
70-74	64	56	59	72	97	136	170
75-79	49	77	87	95	116	159	229
80-84	47	71	95	108	115	140	189
85+	26	34	46	61	75	84	101
<b>Total</b>	231	301	366	442	554	708	917

**Table A.4.4.** Projected Elderly Driver Fatalities, Females,  
Total Number of Fatalities as Percent of 1995 Fatalities

National							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	122.9%	145.3%	192.1%	265.4%	326.7%	393.6%
70-74	100.0%	101.5%	103.6%	117.9%	150.9%	201.6%	242.8%
75-79	100.0%	110.6%	122.9%	129.3%	150.9%	199.5%	277.0%
80-84	100.0%	174.6%	224.5%	248.1%	260.3%	306.0%	404.9%
85+	100.0%	169.0%	228.6%	300.0%	364.2%	407.9%	481.0%
<b>Total</b>	100.0%	128.2%	151.5%	178.3%	216.5%	267.2%	335.9%

  

Midwest							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	89.6%	103.8%	132.1%	179.4%	219.7%	260.4%
70-74	100.0%	95.7%	95.2%	104.4%	127.0%	164.9%	195.3%
75-79	100.0%	80.1%	87.9%	90.1%	101.7%	128.2%	173.3%
80-84	100.0%	164.4%	196.4%	207.8%	207.7%	232.6%	291.1%
85+	100.0%	164.2%	219.4%	278.4%	328.8%	358.0%	409.6%
<b>Total</b>	100.0%	107.9%	123.8%	140.7%	164.8%	197.1%	240.4%

  

Northeast							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	106.2%	113.6%	142.7%	187.2%	219.9%	259.3%
70-74	100.0%	97.1%	88.3%	92.8%	114.4%	146.7%	169.8%
75-79	100.0%	128.2%	129.3%	118.9%	125.9%	157.5%	206.6%
80-84	100.0%	175.9%	209.6%	219.0%	207.4%	227.5%	291.5%
85+	100.0%	173.6%	217.4%	267.7%	308.7%	323.8%	360.8%
<b>Total</b>	100.0%	128.1%	138.0%	150.0%	169.4%	197.5%	238.0%

  

South							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	140.0%	168.5%	225.8%	313.5%	387.2%	470.1%
70-74	100.0%	112.2%	118.6%	137.2%	177.7%	238.1%	286.7%
75-79	100.0%	109.1%	124.9%	136.1%	161.5%	216.3%	302.0%
80-84	100.0%	190.9%	253.8%	287.2%	311.5%	373.3%	501.4%
85+	100.0%	186.3%	260.4%	352.9%	439.3%	505.1%	608.4%
<b>Total</b>	100.0%	138.9%	169.3%	204.6%	253.3%	315.9%	400.3%

  

West							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	142.6%	173.5%	235.9%	334.5%	419.0%	506.6%
70-74	100.0%	87.2%	92.7%	112.1%	151.6%	212.5%	266.3%
75-79	100.0%	156.3%	177.4%	193.8%	236.9%	325.3%	466.5%
80-84	100.0%	150.4%	203.1%	229.1%	245.7%	297.5%	402.6%
85+	100.0%	130.6%	176.9%	235.1%	286.9%	324.6%	389.4%
<b>Total</b>	100.0%	130.4%	158.4%	191.2%	239.7%	306.6%	397.1%



**Table A.5.1.** Projected Total Fatality Rate Attributed to Male Drivers,  
Deaths per 100 Million Miles

National							
	1995	2000	2005	2010	2015	2020	2025
65-69	1.61	1.68	1.65	1.62	1.58	1.55	1.52
70-74	2.09	2.25	2.17	2.10	2.02	1.95	1.89
75-79	3.43	3.72	3.65	3.58	3.52	3.46	3.40
80-84	9.51	8.05	7.89	7.72	7.58	7.43	7.31
85+	13.88	14.02	13.03	12.13	11.33	10.60	10.01
Midwest							
	1995	2000	2005	2010	2015	2020	2025
65-69	1.61	1.41	1.38	1.35	1.32	1.29	1.26
70-74	1.86	1.90	1.83	1.75	1.69	1.62	1.57
75-79	3.20	3.14	3.08	3.01	2.95	2.88	2.83
80-84	7.91	7.13	6.95	6.78	6.61	6.44	6.31
85+	14.24	13.08	12.42	11.79	11.19	10.62	10.19
Northeast							
	1995	2000	2005	2010	2015	2020	2025
65-69	1.15	1.41	1.38	1.35	1.32	1.28	1.26
70-74	2.29	1.89	1.82	1.75	1.68	1.62	1.57
75-79	3.11	3.13	3.07	3.00	2.94	2.87	2.83
80-84	5.33	5.36	5.23	5.10	4.97	4.85	4.75
85+	13.50	13.05	12.38	11.76	11.16	10.59	10.16
South							
	1995	2000	2005	2010	2015	2020	2025
65-69	1.76	2.04	2.00	1.95	1.91	1.86	1.83
70-74	2.32	2.75	2.64	2.54	2.44	2.35	2.27
75-79	3.95	4.55	4.45	4.35	4.26	4.17	4.10
80-84	19.88	10.31	10.05	9.80	9.56	9.32	9.13
85+	19.79	18.92	17.96	17.05	16.18	15.36	14.73
West							
	1995	2000	2005	2010	2015	2020	2025
65-69	1.69	1.59	1.56	1.52	1.48	1.45	1.42
70-74	1.86	2.14	2.06	1.98	1.90	1.83	1.77
75-79	3.08	3.54	3.46	3.39	3.32	3.25	3.19
80-84	7.08	8.02	7.82	7.63	7.44	7.26	7.11
85+	7.57	8.15	6.56	5.28	4.25	3.43	2.79

**Table A.5.2.** Projected Total Fatality Rate Attributed to Male Drivers, Deaths per 100 Million Miles, as Percentage of 1995 Rates

National							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	104.5%	102.6%	100.6%	98.5%	96.3%	94.7%
70-74	100.0%	107.6%	103.9%	100.3%	96.7%	93.2%	90.3%
75-79	100.0%	108.4%	106.4%	104.5%	102.7%	100.8%	99.3%
80-84	100.0%	84.7%	83.0%	81.2%	79.7%	78.2%	76.9%
85+	100.0%	101.1%	93.9%	87.4%	81.7%	76.4%	72.1%
Midwest							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	88.1%	86.1%	84.1%	82.2%	80.3%	78.8%
70-74	100.0%	101.9%	97.9%	94.1%	90.5%	87.0%	84.3%
75-79	100.0%	98.1%	96.0%	93.9%	91.9%	90.0%	88.4%
80-84	100.0%	90.1%	87.9%	85.7%	83.5%	81.5%	79.8%
85+	100.0%	91.9%	87.2%	82.8%	78.6%	74.6%	71.5%
Northeast							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	122.7%	119.9%	117.1%	114.5%	111.8%	109.8%
70-74	100.0%	82.6%	79.4%	76.3%	73.4%	70.5%	68.3%
75-79	100.0%	100.9%	98.8%	96.7%	94.6%	92.6%	91.0%
80-84	100.0%	100.5%	98.0%	95.6%	93.2%	90.9%	89.1%
85+	100.0%	96.6%	91.7%	87.1%	82.6%	78.4%	75.2%
South							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	116.0%	113.3%	110.7%	108.2%	105.7%	103.7%
70-74	100.0%	118.6%	114.0%	109.6%	105.3%	101.3%	98.1%
75-79	100.0%	115.0%	112.5%	110.1%	107.8%	105.5%	103.6%
80-84	100.0%	51.8%	50.6%	49.3%	48.1%	46.9%	45.9%
85+	100.0%	95.6%	90.7%	86.1%	81.8%	77.6%	74.4%
West							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	94.2%	92.1%	90.0%	87.9%	85.9%	84.3%
70-74	100.0%	114.8%	110.4%	106.1%	102.0%	98.0%	95.0%
75-79	100.0%	115.0%	112.6%	110.2%	107.8%	105.5%	103.7%
80-84	100.0%	113.3%	110.5%	107.8%	105.1%	102.5%	100.4%
85+	100.0%	107.7%	86.7%	69.8%	56.2%	45.3%	36.8%

**Table A.5.3.** Projected Total Fatality Rates Attributed to Female Drivers,  
Deaths per 100 Million Miles

National							
	1995	2000	2005	2010	2015	2020	2025
65-69	1.47	1.65	1.62	1.59	1.56	1.52	1.50
70-74	2.52	2.25	2.18	2.10	2.03	1.95	1.89
75-79	4.34	3.58	3.51	3.46	3.39	3.32	3.27
80-84	6.18	6.59	6.41	6.24	6.07	5.90	5.78
85+	11.82	11.30	10.68	10.08	9.53	9.00	8.58
Midwest							
	1995	2000	2005	2010	2015	2020	2025
65-69	1.29	1.41	1.38	1.35	1.32	1.29	1.26
70-74	2.23	1.90	1.83	1.75	1.69	1.62	1.57
75-79	5.14	3.14	3.08	3.01	2.95	2.88	2.83
80-84	6.17	7.13	6.95	6.78	6.61	6.44	6.31
85+	16.08	13.08	12.42	11.79	11.19	10.62	10.19
Northeast							
	1995	2000	2005	2010	2015	2020	2025
65-69	1.30	1.41	1.38	1.35	1.32	1.28	1.26
70-74	2.56	1.89	1.82	1.75	1.68	1.62	1.57
75-79	3.49	3.13	3.07	3.00	2.94	2.87	2.83
80-84	6.06	7.11	6.93	6.76	6.59	6.43	6.30
85+	24.01	13.05	12.38	11.76	11.16	10.59	10.16
South							
	1995	2000	2005	2010	2015	2020	2025
65-69	1.80	2.04	2.00	1.95	1.91	1.86	1.83
70-74	2.57	2.75	2.64	2.54	2.44	2.35	2.27
75-79	5.61	4.55	4.45	4.35	4.26	4.17	4.10
80-84	6.80	6.00	5.85	5.70	5.56	5.42	5.31
85+	10.56	11.01	10.45	9.92	9.42	8.94	8.57
West							
	1995	2000	2005	2010	2015	2020	2025
65-69	1.26	1.44	1.40	1.37	1.34	1.31	1.29
70-74	2.75	2.14	2.06	1.98	1.90	1.83	1.77
75-79	2.66	2.81	2.75	2.70	2.64	2.58	2.54
80-84	5.33	6.38	6.22	6.07	5.92	5.77	5.66
85+	7.10	7.21	6.84	6.49	6.16	5.85	5.61

**Table A.5.4.** Projected Total Fatality Rates Attributed to Female Drivers, Deaths per 100 Million Miles, as Percent of 1995 Rates

National							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	112.7%	110.5%	108.3%	105.9%	103.6%	101.9%
70-74	100.0%	89.5%	86.6%	83.6%	80.6%	77.6%	75.3%
75-79	100.0%	82.5%	81.0%	79.7%	78.2%	76.6%	75.3%
80-84	100.0%	106.7%	103.8%	101.0%	98.2%	95.6%	93.5%
85+	100.0%	95.6%	90.4%	85.3%	80.6%	76.1%	72.6%
Midwest							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	109.6%	107.1%	104.6%	102.2%	99.9%	98.0%
70-74	100.0%	85.2%	81.9%	78.7%	75.6%	72.7%	70.4%
75-79	100.0%	61.2%	59.8%	58.6%	57.3%	56.1%	55.1%
80-84	100.0%	115.4%	112.6%	109.8%	107.0%	104.4%	102.3%
85+	100.0%	81.4%	77.2%	73.3%	69.6%	66.1%	63.3%
Northeast							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	108.3%	105.8%	103.4%	101.0%	98.7%	96.9%
70-74	100.0%	74.0%	71.2%	68.4%	65.8%	63.2%	61.2%
75-79	100.0%	89.8%	87.8%	86.0%	84.1%	82.3%	80.9%
80-84	100.0%	117.3%	114.4%	111.5%	108.7%	106.0%	103.9%
85+	100.0%	54.3%	51.6%	49.0%	46.5%	44.1%	42.3%
South							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	113.4%	110.8%	108.2%	105.7%	103.3%	101.4%
70-74	100.0%	106.8%	102.7%	98.7%	94.9%	91.2%	88.4%
75-79	100.0%	81.1%	79.3%	77.6%	76.0%	74.3%	73.1%
80-84	100.0%	88.2%	86.0%	83.9%	81.8%	79.7%	78.1%
85+	100.0%	104.2%	98.9%	93.9%	89.1%	84.6%	81.1%
West							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	113.7%	111.1%	108.6%	106.1%	103.6%	101.7%
70-74	100.0%	77.6%	74.6%	71.7%	69.0%	66.3%	64.2%
75-79	100.0%	105.7%	103.5%	101.3%	99.1%	97.0%	95.3%
80-84	100.0%	119.7%	116.7%	113.8%	110.9%	108.2%	106.0%
85+	100.0%	101.5%	96.3%	91.5%	86.8%	82.4%	79.0%

**Table A.6.1.** Projected Total Fatalities Attributed to Male Drivers, Number of Fatalities

National							
	1995	2000	2005	2010	2015	2020	2025
65-69	805	871	989	1272	1711	2055	2424
70-74	733	814	800	885	1112	1467	1735
75-79	613	890	950	980	1127	1463	1996
80-84	469	670	831	924	981	1161	1545
85+	270	351	421	512	583	617	706
<b>Total</b>	2890	3596	3991	4573	5513	6763	8406
Midwest							
	1995	2000	2005	2010	2015	2020	2025
65-69	206	189	205	253	333	397	459
70-74	175	168	163	173	207	266	311
75-79	141	161	171	172	189	234	312
80-84	126	185	223	248	259	293	371
85+	71	81	96	115	130	136	153
<b>Total</b>	718	785	859	962	1117	1326	1607
Northeast							
	1995	2000	2005	2010	2015	2020	2025
65-69	94	111	118	146	188	217	254
70-74	129	118	107	111	134	169	192
75-79	93	130	134	127	136	169	221
80-84	61	95	114	124	122	136	176
85+	38	66	80	97	111	114	127
<b>Total</b>	415	520	553	604	690	805	970
South							
	1995	2000	2005	2010	2015	2020	2025
65-69	345	413	477	623	844	1016	1205
70-74	286	367	371	419	536	716	851
75-79	255	430	469	497	581	763	1049
80-84	197	238	304	346	380	464	636
85+	118	137	175	226	271	301	360
<b>Total</b>	1200	1585	1797	2110	2612	3260	4102
West							
	1995	2000	2005	2010	2015	2020	2025
65-69	159	158	189	250	346	425	506
70-74	143	161	158	183	236	316	380
75-79	125	169	176	184	222	297	414
80-84	86	152	189	206	220	268	362
85+	43	66	70	73	71	66	66
<b>Total</b>	557	706	782	897	1094	1371	1727

**Table A.6.2.** Projected Total Fatalities Attributed to Male Drivers,  
as Percentage of 1995 Fatalities

National							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	108.3%	122.9%	158.1%	212.7%	255.4%	301.3%
70-74	100.0%	111.1%	109.1%	120.8%	151.8%	200.1%	236.7%
75-79	100.0%	145.1%	154.9%	159.9%	183.7%	238.6%	325.5%
80-84	100.0%	142.9%	177.1%	196.9%	209.0%	247.5%	329.3%
85+	100.0%	129.7%	155.9%	189.3%	215.4%	228.1%	261.1%
<b>Total</b>	100.0%	124.4%	138.1%	158.2%	190.8%	234.0%	290.8%
Midwest							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	91.9%	99.7%	123.1%	161.7%	193.0%	223.2%
70-74	100.0%	96.0%	93.0%	98.6%	117.9%	151.6%	177.6%
75-79	100.0%	114.5%	121.0%	122.3%	134.1%	166.1%	221.5%
80-84	100.0%	147.4%	177.9%	197.7%	206.2%	233.2%	295.3%
85+	100.0%	115.0%	136.6%	163.2%	183.9%	193.1%	216.8%
<b>Total</b>	100.0%	109.3%	119.6%	134.0%	155.6%	184.6%	223.7%
Northeast							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	118.2%	125.3%	154.8%	199.4%	230.5%	269.6%
70-74	100.0%	91.5%	83.1%	85.8%	103.7%	130.9%	149.2%
75-79	100.0%	139.8%	144.5%	136.5%	146.1%	182.4%	238.4%
80-84	100.0%	156.2%	187.1%	203.2%	200.2%	223.7%	289.5%
85+	100.0%	173.0%	209.6%	255.2%	289.7%	298.3%	331.7%
<b>Total</b>	100.0%	125.4%	133.3%	145.6%	166.2%	194.0%	233.8%
South							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	119.5%	138.2%	180.3%	244.5%	294.1%	349.0%
70-74	100.0%	128.6%	130.0%	146.7%	187.8%	250.7%	298.1%
75-79	100.0%	168.9%	184.2%	195.2%	228.1%	299.8%	412.0%
80-84	100.0%	121.1%	154.8%	175.8%	193.4%	236.2%	323.7%
85+	100.0%	115.8%	148.0%	191.1%	228.9%	254.5%	304.5%
<b>Total</b>	100.0%	132.0%	149.7%	175.8%	217.6%	271.6%	341.7%
West							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	99.2%	118.4%	157.2%	217.3%	266.8%	317.5%
70-74	100.0%	112.3%	110.7%	127.8%	164.7%	221.0%	265.6%
75-79	100.0%	135.0%	141.3%	147.6%	177.3%	237.4%	331.1%
80-84	100.0%	176.6%	219.4%	239.6%	255.2%	311.2%	420.0%
85+	100.0%	153.3%	161.3%	168.7%	164.5%	151.5%	152.5%
<b>Total</b>	100.0%	126.8%	140.5%	161.1%	196.6%	246.3%	310.2%

**Table A.6.3.** Projected Total Fatalities Attributed to Female Drivers,  
Number of Fatalities

National							
	1995	2000	2005	2010	2015	2020	2025
65-69	316	396	475	645	917	1167	1446
70-74	362	407	420	484	632	866	1067
75-79	322	350	392	419	500	676	957
80-84	196	351	451	505	537	642	865
85+	106	179	245	328	408	465	559
<b>Total</b>	1302	1683	1982	2382	2995	3816	4894

  

Midwest							
	1995	2000	2005	2010	2015	2020	2025
65-69	70	75	87	114	159	202	246
70-74	80	85	84	93	115	153	184
75-79	95	73	80	83	95	122	167
80-84	45	90	108	117	119	137	175
85+	26	43	58	75	91	101	118
<b>Total</b>	315	366	418	482	580	715	891

  

Northeast							
	1995	2000	2005	2010	2015	2020	2025
65-69	47	49	54	69	93	111	134
70-74	69	66	60	64	80	105	124
75-79	47	60	61	58	62	79	106
80-84	36	76	91	96	92	103	134
85+	20	32	40	51	60	64	72
<b>Total</b>	218	283	307	338	387	462	570

  

South							
	1995	2000	2005	2010	2015	2020	2025
65-69	137	193	235	322	461	588	734
70-74	144	188	202	238	315	435	538
75-79	128	148	171	192	234	322	461
80-84	75	117	159	187	209	256	353
85+	42	78	112	157	201	237	292
<b>Total</b>	527	724	879	1095	1420	1838	2378

  

West							
	1995	2000	2005	2010	2015	2020	2025
65-69	62	79	99	140	205	266	331
70-74	69	68	73	89	122	173	220
75-79	52	69	79	87	109	152	223
80-84	40	68	93	106	117	146	204
85+	18	26	34	46	56	64	77
<b>Total</b>	241	311	378	467	607	801	1056

**Table A.6.4.** Projected Total Fatalities Attributed to Female Drivers,  
as Percentage of 1995 Fatalities

National							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	125.4%	150.3%	204.1%	290.4%	369.3%	457.8%
70-74	100.0%	112.6%	116.0%	134.0%	174.8%	239.5%	295.0%
75-79	100.0%	108.6%	121.6%	130.2%	155.3%	209.8%	297.0%
80-84	100.0%	179.3%	230.5%	257.8%	274.2%	327.8%	441.5%
85+	100.0%	168.3%	230.0%	308.5%	383.3%	437.6%	526.1%
<b>Total</b>	100.0%	129.3%	152.2%	183.0%	230.0%	293.1%	375.9%

  

Midwest							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	106.9%	124.8%	163.2%	228.6%	289.5%	353.3%
70-74	100.0%	106.8%	106.1%	117.5%	145.0%	192.1%	231.7%
75-79	100.0%	76.8%	84.1%	87.4%	100.1%	128.3%	175.7%
80-84	100.0%	198.6%	240.1%	258.7%	264.7%	303.1%	387.1%
85+	100.0%	170.4%	228.6%	293.7%	355.1%	396.3%	464.4%
<b>Total</b>	100.0%	116.0%	132.7%	153.0%	184.1%	226.8%	282.8%

  

Northeast							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	106.4%	115.6%	148.2%	199.0%	239.4%	288.6%
70-74	100.0%	95.3%	87.3%	93.2%	116.7%	153.0%	180.5%
75-79	100.0%	127.8%	131.0%	122.9%	132.5%	169.0%	225.7%
80-84	100.0%	213.0%	255.5%	269.0%	258.4%	287.7%	373.9%
85+	100.0%	155.9%	197.7%	250.4%	294.9%	313.3%	353.6%
<b>Total</b>	100.0%	129.6%	140.6%	154.7%	177.4%	211.8%	261.0%

  

South							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	140.5%	170.8%	234.5%	335.6%	428.1%	534.9%
70-74	100.0%	131.0%	140.6%	165.4%	219.1%	302.3%	374.0%
75-79	100.0%	115.1%	133.4%	149.4%	182.6%	251.1%	359.1%
80-84	100.0%	155.3%	211.0%	247.3%	276.9%	340.0%	467.7%
85+	100.0%	184.3%	264.1%	370.1%	475.3%	559.2%	689.4%
<b>Total</b>	100.0%	137.4%	166.7%	207.7%	269.4%	348.6%	451.0%

  

West							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	126.9%	159.4%	224.8%	328.3%	425.9%	531.4%
70-74	100.0%	98.2%	104.8%	128.1%	175.1%	249.5%	317.4%
75-79	100.0%	133.6%	152.5%	168.0%	209.6%	294.2%	430.6%
80-84	100.0%	172.7%	234.1%	266.8%	294.4%	368.7%	514.7%
85+	100.0%	141.7%	188.7%	250.8%	307.6%	351.4%	425.1%
<b>Total</b>	100.0%	128.7%	156.7%	193.7%	251.6%	331.9%	437.5%



## APPENDIX B. EXOGENOUS VARIABLE PROJECTIONS

### B.1. NON-INSTITUTIONALIZED POPULATION PROJECTIONS<sup>1</sup>

#### *Adjustments to Census Bureau Population Estimates to Account for Non-institutionalized Population*

The population estimates provided by the Census Bureau project total population, not taking into account institutionalized status. Using estimates of institutionalized population by age from AARP and the Census Bureau, these total population numbers were adjusted downward to remove the institutionalized portion of the elderly population from our estimates.

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<sup>1</sup> Data for population projections were derived from the Census Bureau web site (<http://www.census.gov/population/www/projections/stproj.html>) as of January 8, 1999 and the percentage of institutionalized elderly as noted in the *1996 Statistical Abstract of the United States*, also published by the Census Bureau.

**Table B.1.** Projections of Non-Institutionalized Population, Males

National							
	1995	2000	2005	2010	2015	2020	2025
65-69	4,441,007	4,254,151	4,577,821	5,572,529	7,142,692	8,190,136	9,215,012
70-74	3,781,060	3,799,423	3,693,202	4,031,432	4,966,407	6,411,892	7,397,098
75-79	2,561,733	2,916,192	2,993,089	2,955,493	3,250,372	4,056,984	5,311,543
80-84	1,515,468	1,740,620	2,024,681	2,111,585	2,112,372	2,387,147	3,027,950
85+	736,606	882,223	1,052,097	1,271,548	1,447,238	1,544,189	1,768,914
Midwest							
	1995	2000	2005	2010	2015	2020	2025
65-69	1,056,828	1,012,231	1,051,850	1,227,212	1,543,805	1,763,067	1,946,517
70-74	889,148	896,313	868,929	915,905	1,083,785	1,376,248	1,582,670
75-79	613,341	685,117	703,774	692,251	736,198	884,765	1,141,612
80-84	368,805	412,904	470,131	489,107	486,817	532,842	652,059
85+	185,216	214,114	247,734	291,198	326,092	343,423	383,703
Northeast							
	1995	2000	2005	2010	2015	2020	2025
65-69	937,376	832,856	840,097	991,096	1,225,290	1,361,905	1,526,124
70-74	799,287	778,855	703,317	721,845	863,533	1,077,341	1,206,911
75-79	543,802	602,168	600,584	552,718	573,173	695,822	882,059
80-84	323,911	359,263	407,073	414,066	387,048	414,062	512,005
85+	157,019	181,730	210,483	248,934	278,156	285,323	314,218
South							
	1995	2000	2005	2010	2015	2020	2025
65-69	1,570,741	1,559,096	1,723,376	2,140,123	2,777,528	3,196,122	3,624,162
70-74	1,323,734	1,362,966	1,366,806	1,526,902	1,914,550	2,497,906	2,887,473
75-79	882,080	1,026,286	1,075,154	1,090,510	1,224,072	1,552,232	2,049,929
80-84	515,898	603,928	716,442	759,509	778,238	894,740	1,150,475
85+	246,889	300,405	361,840	442,168	508,151	549,796	638,026
West							
	1995	2000	2005	2010	2015	2020	2025
65-69	876,061	849,968	962,499	1,214,098	1,596,069	1,869,043	2,118,209
70-74	768,891	761,289	754,150	866,780	1,104,540	1,460,396	1,720,044
75-79	522,510	602,621	613,576	620,013	716,929	924,165	1,237,943
80-84	306,853	364,525	431,035	448,904	460,269	545,504	713,410
85+	147,483	185,975	232,040	289,249	334,839	365,646	432,967

**Table B.2.** Projections of Non-Institutionalized Population, Males,  
as Percent of 1995 Population

National							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	95.8%	103.1%	125.5%	160.8%	184.4%	207.5%
70-74	100.0%	100.5%	97.7%	106.6%	131.3%	169.6%	195.6%
75-79	100.0%	113.8%	116.8%	115.4%	126.9%	158.4%	207.3%
80-84	100.0%	114.9%	133.6%	139.3%	139.4%	157.5%	199.8%
85+	100.0%	119.8%	142.8%	172.6%	196.5%	209.6%	240.1%
Midwest							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	95.8%	99.5%	116.1%	146.1%	166.8%	184.2%
70-74	100.0%	100.8%	97.7%	103.0%	121.9%	154.8%	178.0%
75-79	100.0%	111.7%	114.7%	112.9%	120.0%	144.3%	186.1%
80-84	100.0%	112.0%	127.5%	132.6%	132.0%	144.5%	176.8%
85+	100.0%	115.6%	133.8%	157.2%	176.1%	185.4%	207.2%
Northeast							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	88.8%	89.6%	105.7%	130.7%	145.3%	162.8%
70-74	100.0%	97.4%	88.0%	90.3%	108.0%	134.8%	151.0%
75-79	100.0%	110.7%	110.4%	101.6%	105.4%	128.0%	162.2%
80-84	100.0%	110.9%	125.7%	127.8%	119.5%	127.8%	158.1%
85+	100.0%	115.7%	134.0%	158.5%	177.1%	181.7%	200.1%
South							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	99.3%	109.7%	136.2%	176.8%	203.5%	230.7%
70-74	100.0%	103.0%	103.3%	115.3%	144.6%	188.7%	218.1%
75-79	100.0%	116.3%	121.9%	123.6%	138.8%	176.0%	232.4%
80-84	100.0%	117.1%	138.9%	147.2%	150.9%	173.4%	223.0%
85+	100.0%	121.7%	146.6%	179.1%	205.8%	222.7%	258.4%
West							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	97.0%	109.9%	138.6%	182.2%	213.3%	241.8%
70-74	100.0%	99.0%	98.1%	112.7%	143.7%	189.9%	223.7%
75-79	100.0%	115.3%	117.4%	118.7%	137.2%	176.9%	236.9%
80-84	100.0%	118.8%	140.5%	146.3%	150.0%	177.8%	232.5%
85+	100.0%	126.1%	157.3%	196.1%	227.0%	247.9%	293.6%

**Table B.3.** Projections of Non-Institutionalized Population, Females

National							
	1995	2000	2005	2010	2015	2020	2025
65-69	5,344,097	5,010,527	5,294,830	6,355,453	8,033,834	9,116,045	10,118,177
70-74	4,923,057	4,791,438	4,503,108	4,778,034	5,750,525	7,266,802	8,244,250
75-79	3,729,854	4,076,868	3,999,011	3,774,837	3,992,599	4,825,222	6,133,231
80-84	2,687,951	2,881,112	3,181,331	3,138,449	2,974,548	3,205,144	3,908,321
85+	1,891,563	2,177,180	2,447,383	2,799,038	3,046,026	3,115,712	3,377,327
Midwest							
	1995	2000	2005	2010	2015	2020	2025
65-69	1,252,514	1,162,441	1,200,971	1,382,440	1,711,458	1,924,397	2,093,097
70-74	1,155,573	1,114,784	1,034,305	1,071,645	1,238,990	1,535,905	1,727,367
75-79	916,789	962,469	933,584	868,345	897,110	1,043,791	1,303,033
80-84	674,177	711,001	753,217	733,183	684,077	720,737	848,060
85+	498,451	563,620	622,489	689,861	734,829	737,855	783,229
Northeast							
	1995	2000	2005	2010	2015	2020	2025
65-69	1,156,581	992,345	985,908	1,153,851	1,412,038	1,548,197	1,697,843
70-74	1,078,263	1,006,914	868,044	868,628	1,020,925	1,250,850	1,373,495
75-79	836,561	871,303	821,674	714,104	714,236	844,256	1,042,459
80-84	602,810	627,999	662,512	630,496	551,495	563,629	673,489
85+	432,180	473,561	514,691	568,095	598,692	582,087	601,852
South							
	1995	2000	2005	2010	2015	2020	2025
65-69	1,911,242	1,878,407	2,034,389	2,484,278	3,170,489	3,622,381	4,063,329
70-74	1,740,774	1,744,729	1,710,211	1,853,628	2,265,411	2,885,942	3,291,998
75-79	1,285,533	1,458,063	1,466,785	1,437,565	1,549,785	1,898,966	2,429,883
80-84	924,682	1,006,997	1,149,336	1,157,652	1,135,747	1,244,460	1,535,827
85+	629,182	746,923	852,200	992,681	1,094,896	1,140,960	1,255,198
West							
	1995	2000	2005	2010	2015	2020	2025
65-69	1,023,759	977,334	1,073,562	1,334,884	1,739,850	2,021,071	2,263,908
70-74	948,447	925,011	890,547	984,133	1,225,199	1,594,105	1,851,390
75-79	690,971	785,033	776,968	754,824	831,468	1,038,209	1,357,856
80-84	486,282	535,115	616,266	617,118	603,228	676,319	850,947
85+	331,750	393,076	458,002	548,401	617,610	654,811	737,049

**Table B.4.** Projections of Non-Institutionalized Population, Females,  
as Percent of 1995 Population

National							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	93.8%	99.1%	118.9%	150.3%	170.6%	189.3%
70-74	100.0%	97.3%	91.5%	97.1%	116.8%	147.6%	167.5%
75-79	100.0%	109.3%	107.2%	101.2%	107.0%	129.4%	164.4%
80-84	100.0%	107.2%	118.4%	116.8%	110.7%	119.2%	145.4%
85+	100.0%	115.1%	129.4%	148.0%	161.0%	164.7%	178.5%
Midwest							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	92.8%	95.9%	110.4%	136.6%	153.6%	167.1%
70-74	100.0%	96.5%	89.5%	92.7%	107.2%	132.9%	149.5%
75-79	100.0%	105.0%	101.8%	94.7%	97.9%	113.9%	142.1%
80-84	100.0%	105.5%	111.7%	108.8%	101.5%	106.9%	125.8%
85+	100.0%	113.1%	124.9%	138.4%	147.4%	148.0%	157.1%
Northeast							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	85.8%	85.2%	99.8%	122.1%	133.9%	146.8%
70-74	100.0%	93.4%	80.5%	80.6%	94.7%	116.0%	127.4%
75-79	100.0%	104.2%	98.2%	85.4%	85.4%	100.9%	124.6%
80-84	100.0%	104.2%	109.9%	104.6%	91.5%	93.5%	111.7%
85+	100.0%	109.6%	119.1%	131.4%	138.5%	134.7%	139.3%
South							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	98.3%	106.4%	130.0%	165.9%	189.5%	212.6%
70-74	100.0%	100.2%	98.2%	106.5%	130.1%	165.8%	189.1%
75-79	100.0%	113.4%	114.1%	111.8%	120.6%	147.7%	189.0%
80-84	100.0%	108.9%	124.3%	125.2%	122.8%	134.6%	166.1%
85+	100.0%	118.7%	135.4%	157.8%	174.0%	181.3%	199.5%
West							
	1995	2000	2005	2010	2015	2020	2025
65-69	100.0%	95.5%	104.9%	130.4%	169.9%	197.4%	221.1%
70-74	100.0%	97.5%	93.9%	103.8%	129.2%	168.1%	195.2%
75-79	100.0%	113.6%	112.4%	109.2%	120.3%	150.3%	196.5%
80-84	100.0%	110.0%	126.7%	126.9%	124.0%	139.1%	175.0%
85+	100.0%	118.5%	138.1%	165.3%	186.2%	197.4%	222.2%

## **B.2. INDEPENDENT VARIABLES PROJECTIONS**

### **B.2.1 Income**

The following explains the process by which income for the elderly was forecasted by Standard & Poor's DRI for use in the Oak Ridge National Laboratory (ORNL) projection model. These projections can be seen in Tables B.5 and B.6.

#### **B.2.1.1 Standard & Poor's DRI**

Tables B.5 and B.6 contain historical estimates and forecasts of the median money income of persons of age 65 and over in 1998 dollars for demographic groups defined: by gender, within age groups 65-69, 70-74, 75-79, 80-84, and 85+, for the U.S. and each of four Census regions, at five-year intervals for the period 1975-2025.

Historical annual time series for 1975-1998 were tabulated from the Annual Demographic File of the Current Population Survey. All series were converted to constant dollars using the Census Bureau's CPIU-X1 deflator. These annual time series show substantial year-to-year variation. To eliminate outliers in the historical data, model-predicted values are shown for historical years in the accompanying spreadsheet.

The money income of persons aged 65 and over comes from the following sources (1995 data):

Earnings	18%
Social Security	42%
Retirement/pensions	20%
Interest, dividends, rental income	16%
Other	5%

DRI's Quarterly Model of the U.S. Economy contains some variables that are related to these components of the money income of the elderly. The forecasting models for regions do not include such direct measures of income but do provide projections of total per capita income, which were used to capture regional differences that affect all demographic groups.

Models of median real money income for the U.S. in each of the ten demographic groups defined above were estimated employing the following variables:

- Real Social Security payments per person aged 65 and over
- Real pension payments per person 65 and over
- Real interest income per capita
- Real wages (ECI for private wages and salaries deflated with CPIU-X1)

All models were estimated in log-log form. Only variables with positive coefficients were retained in the models.

Models for each of the ten demographic groups in each region were estimated employing these national variables plus real per capita income of the region. In instances where this combination of variables did not produce a satisfactory model, a simple model relating the income of the demographic group in a region to the income of the corresponding group in the U.S. as a whole was employed.

Forecasts through 2010 are based on DRI's TRENDLONG forecast of November 1999. Projections were extended to 2025 based on the TREND25YEAR forecast of August 1999.

**Table B.5. Male DRI Income Projections**

National							
	1995	2000	2005	2010	2015	2020	2025
65-69	20,020	21,490	22,771	24,245	25,485	26,818	28,127
70-74	17,531	18,210	18,436	18,904	19,929	21,216	22,467
75-79	16,381	17,029	17,770	18,911	20,124	21,229	22,389
80-84	14,716	15,390	16,204	17,382	18,457	19,301	20,181
85+	12,880	13,335	13,876	14,670	15,436	16,074	16,737
Midwest							
	1995	2000	2005	2010	2015	2020	2025
65-69	20,095	21,945	23,781	25,662	26,812	28,172	29,547
70-74	17,826	18,128	18,209	18,665	19,513	20,575	21,603
75-79	16,512	16,761	17,015	17,473	18,155	18,914	19,711
80-84	15,451	15,687	16,285	17,531	18,317	18,773	19,216
85+	13,677	14,241	14,913	15,908	16,877	17,689	18,539
Northeast							
	1995	2000	2005	2010	2015	2020	2025
65-69	21,461	23,272	24,821	26,293	27,517	28,702	29,895
70-74	17,808	18,465	18,747	19,102	19,871	20,770	21,652
75-79	16,410	17,515	18,202	18,802	19,707	20,570	21,432
80-84	15,267	15,400	15,852	16,845	17,568	18,080	18,609
85+	13,628	14,201	14,791	15,589	16,418	17,128	17,864
South							
	1995	2000	2005	2010	2015	2020	2025
65-69	18,165	19,091	19,853	21,032	22,033	23,186	24,257
70-74	16,194	17,251	17,711	18,258	19,534	21,112	22,671
75-79	15,024	16,032	17,161	18,701	20,212	21,623	23,133
80-84	13,878	15,218	16,460	17,788	19,345	20,709	22,149
85+	11,783	12,332	12,988	13,980	14,984	15,856	16,778
West							
	1995	2000	2005	2010	2015	2020	2025
65-69	22,545	24,122	25,321	26,735	28,352	29,945	31,524
70-74	19,337	19,702	19,629	20,084	21,118	22,523	23,840
75-79	18,303	19,000	19,604	20,796	22,372	24,071	25,817
80-84	15,041	15,542	16,173	17,168	18,029	18,680	19,358
85+	12,781	12,986	12,978	13,237	13,762	14,448	15,081



**Table B.6.** Female DRI Income Projections

National							
	1995	2000	2005	2010	2015	2020	2025
65-69	9,656	10,313	10,742	11,458	12,273	13,228	14,134
70-74	9,382	9,964	10,285	10,762	11,335	12,110	12,835
75-79	9,738	10,037	10,239	10,674	11,208	11,767	12,295
80-84	9,780	10,452	11,041	11,862	12,665	13,493	14,313
85+	9,555	10,001	10,419	11,155	11,983	12,791	13,603
Midwest							
	1995	2000	2005	2010	2015	2020	2025
65-69	10,306	10,814	11,083	11,806	12,700	13,736	14,697
70-74	9,884	10,260	10,382	10,738	11,230	11,909	12,518
75-79	10,028	10,021	10,001	10,314	10,682	11,081	11,430
80-84	10,202	10,823	11,263	11,875	12,669	13,464	14,229
85+	10,250	10,688	10,953	11,435	12,223	13,099	13,966
Northeast							
	1995	2000	2005	2010	2015	2020	2025
65-69	10,164	10,873	11,313	11,868	12,554	13,306	14,023
70-74	9,699	10,255	10,559	11,071	11,614	12,355	13,032
75-79	9,915	10,428	10,820	11,321	11,798	12,327	12,833
80-84	9,997	10,536	10,832	11,164	11,684	12,224	12,744
85+	9,830	10,222	10,671	11,532	12,250	12,799	13,327
South							
	1995	2000	2005	2010	2015	2020	2025
65-69	8,763	9,188	9,428	9,997	10,732	11,576	12,371
70-74	8,709	9,469	9,921	10,438	11,113	12,004	12,865
75-79	8,856	9,165	9,436	10,037	10,713	11,367	11,991
80-84	8,937	9,502	10,091	11,045	11,988	12,811	13,640
85+	8,618	9,294	9,967	10,886	11,833	12,630	13,451
West							
	1995	2000	2005	2010	2015	2020	2025
65-69	10,195	11,339	12,225	13,312	14,263	15,478	16,647
70-74	10,243	10,706	10,952	11,371	11,788	12,396	12,943
75-79	10,700	11,121	11,275	11,508	12,044	12,658	13,252
80-84	10,706	11,395	11,628	12,062	12,998	14,179	15,337
85+	12,781	12,557	12,291	12,495	12,831	13,312	13,729

### B.2.1.2. Projection Adjustments to Account for Differences Between DRI and NPTS Income Data

Our income projections into the year 2025 are taken from DRI estimates. These DRI estimates include 1995 values as well. The 1995 NPTS averages are anywhere from one and a half to two and a half times those of the DRI estimates. Thus, in our “driver” and crash rate projections, we adjusted the DRI income estimates by a factor associated with the differences in the two sources’ 1995 estimates by gender and age. These adjustment factors (ratio of average 1995 NPTS income to 1995 DRI estimates) are found in Table B.7 below.

**Table B.7.** Ratio of Average 1995 NPTS Income to 1995 DRI Estimates, by Gender and Age

	Men	Women
65-69	1.566251	2.748448
70-74	1.633565	2.592415
75-79	1.684624	2.269106
80-84	1.815173	2.124292
85+	1.783454	1.916215

### B.2.2 Health Index (The Modified Health Factor Score)

Our projections reflect no change in the health index scores in the future. For explanation of how these scores were calculated, see Section 5.1.

### B.2.3 Employment Status

Our employment status projections are based on projections to 2008 by the Bureau of Labor Statistics. These gender and age specific projection trends were then extrapolated into the year 2025, and can be seen in Table B.8.

**Table B.8.** Employment Status Projections as a Percent of Population

Male							
	1995	2000	2005	2010	2015	2020	2025
65-69	27.0%	28.6%	30.4%	32.1%	33.9%	35.7%	37.4%
70-74	16.6%	16.6%	17.2%	17.9%	18.6%	19.2%	19.9%
75-79	7.4%	7.4%	7.5%	7.6%	7.6%	7.7%	7.7%
80-84	7.4%	7.4%	7.5%	7.6%	7.6%	7.7%	7.7%
85+	7.4%	7.4%	7.5%	7.6%	7.6%	7.7%	7.7%
Female							
	1995	2000	2005	2010	2015	2020	2025
65-69	17.5%	17.8%	18.4%	19.0%	19.6%	20.2%	20.8%
70-74	5.3%	6.5%	6.6%	6.7%	6.9%	7.0%	7.2%
75-79	2.9%	2.9%	3.0%	3.0%	3.1%	3.1%	3.2%
80-84	2.9%	2.9%	3.0%	3.0%	3.1%	3.1%	3.2%
85+	2.9%	2.9%	3.0%	3.0%	3.1%	3.1%	3.2%

**B.2.4 Other Driver**

We maintained 1995 levels of the *other driver* variable taken from NPTS data in our projections. For these 1995 levels, see Table B.9.

**Table B.9.** *Other Driver* Projections as a Percent of Population

1995 Values		
	Male	Female
65-69	74.0%	57.0%
70-74	71.0%	51.0%
75-79	56.0%	38.0%
80-84	59.0%	28.0%
85+	37.0%	23.0%

### B.2.5 Seatbelt Use

Our projections on seatbelt use assumed that the goal of 85% usage will be met in the year 2025. Values in between 1995 and 2025 were computed using a simple linear regression involving time for NHTSA seatbelt use data between 1991 and 1995 and the 2025 expected rate (see Table B.10). This simple linear regression is described in the equation below:

$$\text{Projected Seatbelt Usage} = 0.5731 + 0.0066 * \text{year} \text{ (where year} = 2000, 2005, \text{ etc.)}$$

This regression equation had an R<sup>2</sup> value of 0.9174.

**Table B.10.** National Seat Belt Use Projections

1995	2000	2005	2010	2015	2020	2025
68.0%	69.2%	72.5%	75.8%	79.1%	82.4%	85.0%

### B.2.6 Urban

We maintained 1990 percentages of urban population provided by the Census Bureau in our projections. For these 1990 levels, see Table B.11.

**Table B.11.** Percent of Population in Urban Areas, 1990 Census

Nation	
	1990
Nation	76.1%
Midwest	71.7%
Northeast	78.9%
South	68.6%
West	86.3%

## APPENDIX C. NOTES

### C.1. REGIONAL VMT AND HEALTH INDEX COMPUTATIONS FOR 1983 DATA

The 1983 NPTS did not contain a variable identifying the respondent's region of residence. Therefore, in order to obtain the average health score and vehicle miles of travel numbers needed for the aggregate crash rate model, we took the percent difference between the regional and national figures for the two variables in 1990 and adjusted the national average for each respective gender/age average in 1983 by these regional variation measures.

### C.2. STARTING VALUES FOR VMT VALUES OF SOUTHERN MEN

The 1995 starting values used in the projections were slightly modified due to the inconsistencies in historical VMT for Southern men. These inconsistencies involved two cases where an older group had a higher average VMT in 1995 than a younger group. The two cases involved 70-74 Southern men having less VMT than their 75-79 year old counterparts, and the 80-85 group having a lower average than the 85+ group. In order to account for this, a simple iterative proportional fitting procedure was used. Given the simple nature of the problem, this iterative proportional fitting amounted to taking the average of the two groups affected in each case and using that average as the starting point for both groups. In Table C.1 below are the original values observed from the 1995 NPTS for each group, along with their modified numbers used in projections.

**Table C.1.** Average VMT per Person of Southern Men, 1995 NPTS and Adjusted Numbers

Age	1995 NPTS	Base Used in Projections
70-74	10431	10909
75-79	11388	10909
80-84	4681	5336
85+	5991	5336

### C.3. DECREASING GROWTH RATES OF DRIVER PROJECTIONS

We constructed these decreasing growth rates by comparing the growth rates (the coefficient of the year trend variable) estimated on 1977-95 and 1977-90 samples; these results are reported in Table C.2. With declining growth rates, we expected the estimated coefficients on the time trend to be larger in absolute magnitude in the shorter sample period (1977-90) than in the longer one (1977-95), and in all but a very few cases this expectation proved correct. We used the ratio of the coefficient values from the 1977-95 sample to those from the 1977-90 sample to represent the pattern of declining growth rate to use in the future. This procedure yielded ratios of later growth rates to earlier growth rates, which were smaller than one. In the few cases in which the longer sample period yielded larger time trend coefficients, we interpolated the ratio of growth rates from adjoining age/gender groups. In projecting the driver rates, we multiplied each subsequent year's time trend coefficient by this ratio. For example, in projecting the 2000 driver percentages, we multiplied the estimated age-and-gender-specific time trend coefficients by the corresponding growth rate factors to obtain a lower time effect; then in projecting the 2000 driver percentages, we multiplied the growth factor used for the 1995-2000 projection by the same growth-rate factor, further depressing the pure time effect.

This method of creating a decreasing autonomous effect of time improved the projections—using the estimated time coefficients generally yielded values of one for every age and gender group by 2010 to 2015—but still yielded age and gender patterns of driver rates that were not “smooth” in the sense of having older groups systematically having lower driver ratios at each projection time. The set of modified time-trend coefficients performed satisfactorily in projections for 65-69 males, which we considered the base group against which the behavior of the other groups reasonably could be compared. We had clear anticipations (Bayesian priors) on how the other older age groups should behave over time (and by 2025) relative to this group: lower driver ratios for each older age group, and generally lower rates for women, which would otherwise parallel the trend for men of corresponding age unless influenced otherwise by other variables. While the ratio-adjusted

time coefficients did not yield such a pattern outright, across all age groups and between genders, it did give some key points, however—the 75-79 men, the 85+ age group for males in the Northeast and South, and the 85+ women in the Midwest and Northeast. Consequently, using the 65-69 men, the 75-79 men, and the two groups of 85+ men and women, we further adjusted the already-adjusted time coefficients on the remaining age/gender/region groups to make them fit the pattern of fall-offs with age that our priors gave us. To get acceptable time coefficients for the 65-69 women with which to begin the female pattern of age-specific driver ratios, we compared their 1995 actual driver ratios with the 65-69 men's 1995 actual ratios and found a set of time coefficient values that aligned the 2000 projections between the 1995 actual values and the 2025 ratios projected using the empirically adjusted time coefficient ratios for the 85+ women in the Midwest and Northeast.

**Table C.2.** Year Coefficients (Adjusted and Non-Adjusted, and 1977-90/1977-95 Coefficient Ratios)

	65-69			70-74			75-79			80-84			85+		
	$\beta$	Adj. $\beta$ (if appl)	Ratios	$\beta$	Adj. $\beta$ (if appl)	Ratios	$\beta$	Adj. $\beta$ (if appl)	Ratios	$\beta$	Adj. $\beta$ (if appl)	Ratios	$\beta$	Adj. $\beta$ (if appl)	Ratios
<b>Men</b>															
year (MW)	0.00245		0.2722	0.0331	0.0125	0.5227	0.0216		0.85	0.0509	0.0375	0.8939	0.1064	0.08	0.5
year (NE)	-0.0283	-0.015	0.8	0.0326	0.01	0.8098	0.0304	0.02	0.75	0.0318	0.025	1	0.0642		0.65
year (S)	-0.0015		1	0.0254	0.005	1	0.0213	0.015	0.2662	0.0458	0.015	1	0.0498	0.035	0.8
year (W)	0.189		0.8889	0.0119	0.025	0.1	0.0295	0.02	0.5	0.0651	0.05	0.7	0.0723	0.1	0.4
<b>Women</b>															
year (MW)	0.0433	0.035	1	0.0338		0.6095	0.0574	0.0375	0.8258	0.0848	0.07	0.5896	0.0809		0.75
year (NE)	0.00999		0.2553	0.013		0.4346	0.0192		0.2099	0.0582	0.04	0.6649	0.0493	0.04	0.75
year (S)	0.0348		0.875	0.0341	0.03	0.75	0.0527	0.035	0.9	0.0589	0.05	0.8	0.081	0.07	0.8
year (W)	0.0669	0.05	0.9432	0.0355		1	0.0526	0.04	0.95	0.087	0.07	0.7667	0.0649		0.6626