

National Automotive Sampling System (NASS) General Estimates System (GES) Estimates and Standard Errors

National Estimates

The national estimates produced from the NASS GES data may differ from the true population values because they are based on a probability sample of police-reported crashes that involve injury or major property damage, rather than a census of these types of crashes. The size of these differences may vary depending on the makeup of the sample which is selected. The standard error of an estimate is a measure of the precision or reliability with which an estimate from this particular NASS GES sample approximates the result of a census.

Generalized Estimated Sampling Errors

It is impractical to compute and provide a standard error for each national estimate. Instead, generalized standard errors for estimates of totals are presented in the following tables for 1988 to the current NASS GES year. The following steps produced the generalized standard errors:

1. The standard errors for selected estimates were calculated using Taylor series approximations. Generalized standard errors were calculated separately for crash, vehicle, and person characteristics.
2. Using regression techniques, three equations were found that best fit the separate standard errors for crash, vehicle, and person estimates.
3. The equations were used to generate approximate standard errors for the three types of estimates.

The NASS GES estimates and an estimate of one standard error are given in the following tables. By adding and subtracting the standard error to the associated estimate, a 95 percent confidence interval for an estimate can be created.

For example, if the estimated number of injured or killed pedestrians in 1995 was 90,000 (rounded to the nearest 1,000). To calculate one standard error for this person estimate, use the table for 1995 below. Look under the Person Estimate column for the value of 90,000. Look under the Person Standard Error column to the right for the corresponding person error value. For the person estimate of 90,000 the person standard error value is 7,100. The 95 percent confidence interval for this estimate would be approximately $90,000 + \text{or} - 1.96 * (7,100)$ or 76,000 to 104,000.

If the person estimate falls between the values shown on the table linear interpolation will be required. For example, had the person estimate been 92,000 instead of 90,000 the person standard error would need to be calculated. Use linear interpolation from the standard error values for 90,000 and 100,000. One approximate standard error would be $7,100 + 120 = 7,220$. The 95 percent confidence interval for this estimate would be approximately $92,000 + \text{or} - 1.96 * (7,220)$ or 78,000 to 106,000.

1988 NASS GES ESTIMATES AND STANDARD ERRORS

Crash Estimate (x)	Crash Standard Error (SE)*	Vehicle Estimate (x)	Vehicle Standard Error (SE)**	Person Estimate (x)	Person Standard Error (SE)***
1,000	600	1,000	500	1,000	500
5,000	1,400	5,000	1,200	5,000	1,200
10,000	2,100	10,000	1,800	10,000	1,800
20,000	3,200	20,000	2,900	20,000	2,900
30,000	4,200	30,000	3,800	30,000	3,800
40,000	5,200	40,000	4,700	40,000	4,700
50,000	6,100	50,000	5,500	50,000	5,600
60,000	6,900	60,000	6,300	60,000	6,400
70,000	7,800	70,000	7,100	70,000	7,200
80,000	8,600	80,000	7,900	80,000	8,000
90,000	9,400	90,000	8,600	90,000	8,800
100,000	10,200	100,000	9,400	100,000	9,500
200,000	17,600	200,000	16,500	200,000	17,000
300,000	24,600	300,000	23,400	300,000	24,200
400,000	31,400	400,000	30,100	400,000	31,300
500,000	38,100	500,000	36,700	500,000	38,300
600,000	44,800	600,000	43,400	600,000	45,400
700,000	51,300	700,000	50,000	700,000	52,500
800,000	57,900	800,000	56,600	800,000	59,500
900,000	64,400	900,000	63,200	900,000	66,600
1,000,000	71,000	1,000,000	69,900	1,000,000	73,800
1,500,000	103,700	2,000,000	137,400	2,000,000	146,800
2,000,000	136,500	3,000,000	207,300	3,000,000	223,000
2,500,000	169,600	4,000,000	279,300	4,000,000	302,200
3,000,000	203,100	5,000,000	353,400	5,000,000	384,000
3,500,000	236,900	6,000,000	429,500	6,000,000	468,200
4,000,000	271,000	7,000,000	507,300	7,000,000	554,700
4,500,000	305,400	8,000,000	586,800	8,000,000	643,300
5,000,000	340,200	9,000,000	667,900	9,000,000	733,900
5,500,000	375,400	10,000,000	750,500	10,000,000	826,300
6,000,000	410,800	11,000,000	834,500	11,000,000	920,600
7,000,000	482,600	12,000,000	919,900	12,000,000	1,016,600

* $SE = e^{a/2+b/2(\ln X)^{**2}}$, where
 $a = 9.63$
 $b = .067$

** $SE = e^{a/2+b/2(\ln X)^{**2}}$, where
 $a = 9.16$
 $b = .069$

*** $SE = e^{a/2+b/2(\ln X)^{**2}}$, where
 $a = 9.04$
 $b = .070$

1989 NASS GES ESTIMATES AND STANDARD ERRORS

Crash Estimate (x)	Crash Standard Error (SE)*	Vehicle Estimate (x)	Vehicle Standard Error (SE)**	Person Estimate (x)	Person Standard Error (SE)***
1,000	600	1,000	500	1,000	500
5,000	1,400	5,000	1,200	5,000	1,200
10,000	2,100	10,000	1,800	10,000	1,800
20,000	3,200	20,000	2,900	20,000	2,900
30,000	4,200	30,000	3,800	30,000	3,800
40,000	5,200	40,000	4,700	40,000	4,700
50,000	6,100	50,000	5,500	50,000	5,600
60,000	6,900	60,000	6,300	60,000	6,400
70,000	7,800	70,000	7,100	70,000	7,200
80,000	8,600	80,000	7,900	80,000	8,000
90,000	9,400	90,000	8,600	90,000	8,800
100,000	10,200	100,000	9,400	100,000	9,500
200,000	17,600	200,000	16,500	200,000	17,000
300,000	24,600	300,000	23,400	300,000	24,200
400,000	31,400	400,000	30,100	400,000	31,300
500,000	38,100	500,000	36,700	500,000	38,300
600,000	44,800	600,000	43,400	600,000	45,400
700,000	51,300	700,000	50,000	700,000	52,500
800,000	57,900	800,000	56,600	800,000	59,500
900,000	64,400	900,000	63,200	900,000	66,600
1,000,000	71,000	1,000,000	69,900	1,000,000	73,800
1,500,000	103,700	2,000,000	137,400	2,000,000	146,800
2,000,000	136,500	3,000,000	207,300	3,000,000	223,000
2,500,000	169,600	4,000,000	279,300	4,000,000	302,200
3,000,000	203,100	5,000,000	353,400	5,000,000	384,000
3,500,000	236,900	6,000,000	429,500	6,000,000	468,200
4,000,000	271,000	7,000,000	507,300	7,000,000	554,700
4,500,000	305,400	8,000,000	586,800	8,000,000	643,300
5,000,000	340,200	9,000,000	667,900	9,000,000	733,900
5,500,000	375,400	10,000,000	750,500	10,000,000	826,300
6,000,000	410,800	11,000,000	834,500	11,000,000	920,600
7,000,000	482,600	12,000,000	919,900	12,000,000	1,016,600
* $SE = e^{a/2+b/2(\ln X)^{**2}}$, where $a = 9.63$ $b = .067$		** $SE = e^{a/2+b/2(\ln X)^{**2}}$, where $a = 9.16$ $b = .069$		*** $SE = e^{a/2+b/2(\ln X)^{**2}}$, where $a = 9.04$ $b = .070$	

1990 NASS GES ESTIMATES AND STANDARD ERRORS

Crash Estimate (x)	Crash Standard Error (SE)*	Vehicle Estimate (x)	Vehicle Standard Error (SE)**	Person Estimate (x)	Person Standard Error (SE)***
1,000	700	1,000	400	1,000	400
5,000	1,400	5,000	1,000	5,000	1,000
10,000	2,100	10,000	1,600	10,000	1,500
20,000	3,300	20,000	2,500	20,000	2,400
30,000	4,200	30,000	3,400	30,000	3,100
40,000	5,100	40,000	4,200	40,000	3,900
50,000	5,900	50,000	4,900	50,000	4,500
60,000	6,800	60,000	5,700	60,000	5,200
70,000	7,500	70,000	6,400	70,000	5,800
80,000	8,300	80,000	7,100	80,000	6,500
90,000	9,000	90,000	7,800	90,000	7,100
100,000	9,700	100,000	8,500	100,000	7,700
200,000	16,400	200,000	15,000	200,000	13,400
300,000	22,600	300,000	21,300	300,000	18,900
400,000	28,600	400,000	27,500	400,000	24,300
500,000	34,400	500,000	33,700	500,000	29,600
600,000	40,000	600,000	39,900	600,000	34,800
700,000	45,700	700,000	46,100	700,000	40,100
800,000	51,200	800,000	52,200	800,000	45,300
900,000	56,700	900,000	58,400	900,000	50,600
1,000,000	62,200	1,000,000	64,700	1,000,000	55,800
1,500,000	116,200	2,000,000	128,300	2,000,000	108,800
2,000,000	169,800	3,000,000	194,500	3,000,000	163,200
2,500,000	223,700	4,000,000	263,100	4,000,000	219,100
3,000,000	278,000	5,000,000	334,000	5,000,000	276,400
3,500,000	332,800	6,000,000	406,900	6,000,000	335,200
4,000,000	388,100	7,000,000	481,600	7,000,000	394,900
4,500,000	444,000	8,000,000	558,200	8,000,000	455,900
5,000,000	500,400	9,000,000	636,400	9,000,000	518,100
5,500,000	557,300	10,000,000	716,100	10,000,000	581,300
6,000,000	614,700	11,000,000	797,400	11,000,000	645,500
7,000,000	672,500	12,000,000	808,100	12,000,000	710,600

* $SE = e^{(a/2)+(b/2)(\ln(x))^2}$, where
 $a = 9.93401$
 $b = 0.06362$

** $SE = e^{(a/2)+(b/2)(\ln(x))^2}$, where
 $a = 8.83524$
 $b = 0.06977$

*** $SE = e^{(a/2)+(b/2)(\ln(x))^2}$, where
 $a = 8.88000$
 $b = 0.06800$

1991 NASS GES ESTIMATES AND STANDARD ERRORS

Crash Estimate (x)	Crash Standard Error (SE)*	Vehicle Estimate (x)	Vehicle Standard Error (SE)**	Person Estimate (x)	Person Standard Error (SE)***
1,000	600	1,000	500	1,000	400
5,000	1,400	5,000	1,100	5,000	1,000
10,000	2,100	10,000	1,600	10,000	1,500
20,000	3,200	20,000	2,600	20,000	2,400
30,000	4,200	30,000	3,500	30,000	3,200
40,000	5,000	40,000	4,300	40,000	4,000
50,000	5,900	50,000	5,000	50,000	4,700
60,000	6,700	60,000	5,800	60,000	5,400
70,000	7,500	70,000	6,500	70,000	6,100
80,000	8,200	80,000	7,200	80,000	6,800
90,000	9,000	90,000	7,900	90,000	7,500
100,000	9,700	100,000	8,600	100,000	8,200
200,000	16,500	200,000	15,200	200,000	14,600
300,000	22,800	300,000	21,600	300,000	20,900
400,000	29,000	400,000	27,800	400,000	27,200
500,000	34,900	500,000	34,000	500,000	33,400
600,000	40,800	600,000	40,200	600,000	39,700
700,000	46,600	700,000	46,400	700,000	46,000
800,000	52,400	800,000	52,600	800,000	52,300
900,000	58,100	900,000	58,900	900,000	58,600
1,000,000	63,800	1,000,000	65,100	1,000,000	65,000
2,000,000	120,300	2,000,000	128,600	2,000,000	130,600
3,000,000	176,900	3,000,000	194,600	3,000,000	199,700
4,000,000	234,000	4,000,000	262,900	4,000,000	271,800
5,000,000	291,700	5,000,000	333,200	5,000,000	346,600
6,000,000	350,200	6,000,000	405,500	6,000,000	423,900
7,000,000	409,400	7,000,000	479,600	7,000,000	503,500
8,000,000	469,300	8,000,000	555,400	8,000,000	585,200
9,000,000	529,900	9,000,000	632,700	9,000,000	668,900
10,000,000	591,100	10,000,000	711,600	10,000,000	754,500
11,000,000	652,900	11,000,000	791,900	11,000,000	842,000
12,000,000	715,400	12,000,000	873,600	12,000,000	931,100

* $SE = e^{a+b(\ln X)^2}$, where
 $a = 4.900441$
 $b = 0.032292$

** $SE = e^{a+b(\ln X)^2}$, where
 $a = 4.460186$
 $b = 0.034701$

*** $SE = e^{a+b(\ln X)^2}$, where
 $a = 4.291460$
 $b = 0.035576$

1992 NASS GES ESTIMATES AND STANDARD ERRORS

Crash Estimate (x)	Crash Standard Error (SE)*	Vehicle Estimate (x)	Vehicle Standard Error (SE)**	Person Estimate (x)	Person Standard Error (SE)***
1,000	400	1,000	400	1,000	400
5,000	1,100	5,000	1,000	5,000	900
6,000	1,200	10,000	1,500	10,000	1,400
7,000	1,300	20,000	2,500	20,000	2,200
8,000	1,400	30,000	3,300	30,000	3,000
9,000	1,600	40,000	4,100	40,000	3,700
10,000	1,700	50,000	4,800	50,000	4,400
20,000	2,700	60,000	5,600	60,000	5,100
30,000	3,600	70,000	6,300	70,000	5,800
40,000	4,400	80,000	7,000	80,000	6,500
50,000	5,200	90,000	7,700	90,000	7,200
60,000	6,000	100,000	8,400	100,000	7,800
70,000	6,800	200,000	15,200	200,000	14,200
80,000	7,600	300,000	21,800	300,000	20,600
90,000	8,300	400,000	28,300	400,000	26,900
100,000	9,100	500,000	34,900	500,000	33,200
200,000	16,200	600,000	41,500	600,000	39,600
300,000	23,200	700,000	48,100	700,000	46,000
400,000	30,100	800,000	54,700	800,000	52,400
500,000	36,900	900,000	61,400	900,000	59,000
600,000	43,800	1,000,000	68,100	1,000,000	65,500
700,000	50,700	2,000,000	137,500	2,000,000	134,100
800,000	57,600	3,000,000	210,800	3,000,000	207,100
900,000	64,600	4,000,000	287,500	4,000,000	284,000
1,000,000	71,600	5,000,000	367,200	5,000,000	364,400
2,000,000	143,600	6,000,000	449,700	6,000,000	447,900
3,000,000	219,200	7,000,000	534,700	7,000,000	534,200
4,000,000	298,000	8,000,000	622,100	8,000,000	623,200
5,000,000	379,700	9,000,000	711,700	9,000,000	714,700
6,000,000	464,000	10,000,000	803,400	10,000,000	808,500
6,500,000	507,100	11,000,000	897,100	11,000,000	904,600
* $SE = e^{a+b(\ln X)^2}$, where $a = 4.413218$ $b = 0.035447$		** $SE = e^{a+b(\ln X)^2}$, where $a = 4.294210$ $b = 0.035807$		*** $SE = e^{a+b(\ln X)^2}$, where $a = 4.132995$ $b = 0.036452$	

1993 NASS GES ESTIMATES AND STANDARD ERRORS

Crash Estimate (x)	Crash Standard Error (SE)*	Vehicle Estimate (x)	Vehicle Standard Error (SE)**	Person Estimate (x)	Person Standard Error (SE)***
1,000	400	1,000	400	1,000	400
5,000	1,000	5,000	1,000	5,000	900
6,000	1,200	10,000	1,500	10,000	1,400
7,000	1,300	20,000	2,400	20,000	2,200
8,000	1,400	30,000	3,200	30,000	3,000
9,000	1,500	40,000	4,000	40,000	3,700
10,000	1,600	50,000	4,700	50,000	4,400
20,000	2,600	60,000	5,400	60,000	5,100
30,000	3,500	70,000	6,100	70,000	5,700
40,000	4,300	80,000	6,800	80,000	6,400
50,000	5,100	90,000	7,500	90,000	7,000
60,000	5,800	100,000	8,100	100,000	7,600
70,000	6,600	200,000	14,600	200,000	13,700
80,000	7,300	300,000	20,900	300,000	19,600
90,000	8,000	400,000	27,100	400,000	25,400
100,000	8,700	500,000	33,300	500,000	31,300
200,000	15,600	600,000	39,500	600,000	37,100
300,000	22,300	700,000	45,800	700,000	43,000
400,000	29,000	800,000	52,100	800,000	48,900
500,000	35,600	900,000	58,400	900,000	54,800
600,000	42,200	1,000,000	64,700	1,000,000	60,800
700,000	48,800	2,000,000	130,200	2,000,000	122,200
800,000	55,400	3,000,000	199,100	3,000,000	186,900
900,000	62,100	4,000,000	271,000	4,000,000	254,400
1,000,000	68,800	5,000,000	345,600	5,000,000	324,400
2,000,000	137,800	6,000,000	422,700	6,000,000	396,800
3,000,000	210,100	7,000,000	502,000	7,000,000	471,300
4,000,000	285,500	8,000,000	583,500	8,000,000	547,800
5,000,000	363,600	9,000,000	667,000	9,000,000	626,200
6,000,000	444,100	10,000,000	752,400	10,000,000	706,300
6,500,000	485,200	11,000,000	839,600	11,000,000	788,200
7,000,000	526,900	12,000,000	928,600	12,000,000	871,700

* $SE = e^{a+b(\ln X)^2}$, where
 $a = 4.388598$
 $b = 0.035368$

** $SE = e^{a+b(\ln X)^2}$, where
 $a = 4.285811$
 $b = 0.035587$

*** $SE = e^{a+b(\ln X)^2}$, where
 $a = 4.222608$
 $b = 0.035587$

1994 NASS GES ESTIMATES AND STANDARD ERRORS

Crash Estimate (x)	Crash Standard Error (SE)*	Vehicle Estimate (x)	Vehicle Standard Error (SE)**	Person Estimate (x)	Person Standard Error (SE)***
1,000	400	1,000	400	1,000	400
5,000	1,000	5,000	1,000	5,000	900
6,000	1,200	10,000	1,500	10,000	1,400
7,000	1,300	20,000	2,500	20,000	2,300
8,000	1,400	30,000	3,300	30,000	3,100
9,000	1,500	40,000	4,200	40,000	3,800
10,000	1,600	50,000	4,900	50,000	4,500
20,000	2,600	60,000	5,700	60,000	5,200
30,000	3,500	70,000	6,500	70,000	5,900
40,000	4,400	80,000	7,200	80,000	6,500
50,000	5,200	90,000	7,900	90,000	7,200
60,000	6,000	100,000	8,600	100,000	7,800
70,000	6,700	200,000	15,600	200,000	14,100
80,000	7,500	300,000	22,500	300,000	20,300
90,000	8,300	400,000	29,300	400,000	26,400
100,000	9,000	500,000	36,100	500,000	32,600
200,000	16,300	600,000	42,900	600,000	38,700
300,000	23,300	700,000	49,800	700,000	44,900
400,000	30,400	800,000	56,800	800,000	51,100
500,000	37,400	900,000	63,700	900,000	57,400
600,000	44,500	1,000,000	70,800	1,000,000	63,700
700,000	51,500	2,000,000	143,700	2,000,000	128,900
800,000	58,700	3,000,000	220,900	3,000,000	197,800
900,000	65,900	4,000,000	301,900	4,000,000	270,000
1,000,000	73,100	5,000,000	386,300	5,000,000	345,200
2,000,000	147,900	6,000,000	473,700	6,000,000	422,900
3,000,000	227,000	7,000,000	564,000	7,000,000	503,100
4,000,000	309,800	8,000,000	656,800	8,000,000	585,600
5,000,000	395,900	9,000,000	752,200	9,000,000	670,300
6,000,000	485,000	10,000,000	849,800	10,000,000	756,900
6,500,000	530,700	11,000,000	949,700	11,000,000	845,500
7,000,000	577,000	12,000,000	1,051,700	12,000,000	935,900

* $SE = e^{a+b(\ln X)^2}$, where
 $a = 4.347699$
 $b = 0.035898$

** $SE = e^{a+b(\ln X)^2}$, where
 $a = 4.283883$
 $b = 0.036063$

*** $SE = e^{a+b(\ln X)^2}$, where
 $a = 4.206542$
 $b = 0.035915$

1995 NASS GES ESTIMATES AND STANDARD ERRORS

Crash Estimate (x)	Crash Standard Error (SE)*	Vehicle Estimate (x)	Vehicle Standard Error (SE)**	Person Estimate (x)	Person Standard Error (SE)***
1,000	400	1,000	400	1,000	400
5,000	1,000	5,000	1,000	5,000	900
6,000	1,200	10,000	1,600	10,000	1,400
7,000	1,300	20,000	2,500	20,000	2,300
8,000	1,400	30,000	3,300	30,000	3,100
9,000	1,500	40,000	4,200	40,000	3,800
10,000	1,600	50,000	4,900	50,000	4,500
20,000	2,600	60,000	5,700	60,000	5,100
30,000	3,500	70,000	6,400	70,000	5,800
40,000	4,300	80,000	7,100	80,000	6,400
50,000	5,100	90,000	7,800	90,000	7,100
60,000	5,900	100,000	8,500	100,000	7,700
70,000	6,600	200,000	15,300	200,000	13,700
80,000	7,400	300,000	22,000	300,000	19,600
90,000	8,100	400,000	28,500	400,000	25,300
100,000	8,800	500,000	35,100	500,000	31,000
200,000	15,800	600,000	41,700	600,000	36,800
300,000	22,700	700,000	48,200	700,000	42,500
400,000	29,400	800,000	54,900	800,000	48,300
500,000	36,200	900,000	61,500	900,000	54,000
600,000	43,000	1,000,000	68,200	1,000,000	59,800
700,000	49,800	2,000,000	137,300	2,000,000	119,300
800,000	56,600	3,000,000	210,100	3,000,000	181,500
900,000	63,500	4,000,000	286,100	4,000,000	246,100
1,000,000	70,400	5,000,000	365,000	5,000,000	313,000
2,000,000	141,700	6,000,000	446,500	6,000,000	381,900
3,000,000	216,800	7,000,000	530,400	7,000,000	452,600
4,000,000	295,200	8,000,000	616,700	8,000,000	525,100
5,000,000	376,500	9,000,000	705,000	9,000,000	599,300
6,000,000	460,600	10,000,000	795,400	10,000,000	675,100
6,500,000	503,600	11,000,000	887,700	11,000,000	752,300
7,000,000	547,200	12,000,000	981,900	12,000,000	831,000

* $SE = e^{a+b(\ln X)^2}$, where
 $a = 4.362086$
 $b = 0.035627$

** $SE = e^{a+b(\ln X)^2}$, where
 $a = 4.329914$
 $b = 0.035631$

*** $SE = e^{a+b(\ln X)^2}$, where
 $a = 4.289002$
 $b = 0.035157$

1996 NASS GES ESTIMATES AND STANDARD ERRORS

Crash Estimate (x)	Crash Standard Error (SE)*	Vehicle Estimate (x)	Vehicle Standard Error (SE)**	Person Estimate (x)	Person Standard Error (SE)***
1,000	500	1,000	400	1,000	400
5,000	1,100	5,000	1,000	5,000	1,000
6,000	1,200	10,000	1,600	10,000	1,500
7,000	1,300	20,000	2,500	20,000	2,300
8,000	1,500	30,000	3,300	30,000	3,100
9,000	1,600	40,000	4,100	40,000	3,800
10,000	1,700	50,000	4,900	50,000	4,400
20,000	2,600	60,000	5,600	60,000	5,100
30,000	3,500	70,000	6,300	70,000	5,700
40,000	4,300	80,000	7,000	80,000	6,300
50,000	5,000	90,000	7,700	90,000	6,900
60,000	5,800	100,000	8,400	100,000	7,500
70,000	6,500	200,000	14,900	200,000	13,100
80,000	7,200	300,000	21,300	300,000	18,500
90,000	7,900	400,000	27,500	400,000	23,700
100,000	8,500	500,000	33,800	500,000	28,900
200,000	15,000	600,000	40,000	600,000	34,100
300,000	21,100	700,000	46,200	700,000	39,200
400,000	27,100	800,000	52,500	800,000	44,300
500,000	33,100	900,000	58,800	900,000	49,400
600,000	39,000	1,000,000	65,100	1,000,000	54,600
700,000	44,900	2,000,000	129,800	2,000,000	106,400
800,000	50,800	3,000,000	197,400	3,000,000	159,600
900,000	56,700	4,000,000	267,600	4,000,000	214,300
1,000,000	62,700	5,000,000	340,300	5,000,000	270,300
2,000,000	122,600	6,000,000	415,200	6,000,000	327,700
3,000,000	184,300	7,000,000	492,100	7,000,000	386,200
4,000,000	247,800	8,000,000	570,900	8,000,000	445,900
5,000,000	313,000	9,000,000	651,500	9,000,000	506,700
6,000,000	379,800	10,000,000	733,900	10,000,000	568,500
6,500,000	413,700	11,000,000	817,800	11,000,000	631,300
7,000,000	448,000	12,000,000	903,300	12,000,000	695,100

* $SE = e^{a+b(\ln X)^2}$, where
 $a = 4.521508$
 $b = 0.034180$

** $SE = e^{a+b(\ln X)^2}$, where
 $a = 4.374631$
 $b = 0.035149$

*** $SE = e^{a+b(\ln X)^2}$, where
 $a = 4.417590$
 $b = 0.034001$

1997 NASS GES ESTIMATES AND STANDARD ERRORS

Crash Estimate (x)	Crash Standard Error (SE)	Vehicle Estimate (x)	Vehicle Standard Error (SE)**	Person Estimate (x)	Person Standard Error (SE)***
1,000	400	1,000	400	1,000	400
5,000	1,100	5,000	1,000	5,000	1,000
6,000	1,200	10,000	1,600	10,000	1,600
7,000	1,300	20,000	2,500	20,000	2,500
8,000	1,400	30,000	3,300	30,000	3,300
9,000	1,500	40,000	4,100	40,000	4,100
10,000	1,600	50,000	4,900	50,000	4,800
20,000	2,600	60,000	5,600	60,000	5,600
30,000	3,500	70,000	6,400	70,000	6,300
40,000	4,300	80,000	7,100	80,000	7,000
50,000	5,100	90,000	7,800	90,000	7,700
60,000	5,900	100,000	8,500	100,000	8,300
70,000	6,600	200,000	15,200	200,000	14,800
80,000	7,400	300,000	21,800	300,000	21,000
90,000	8,100	400,000	28,300	400,000	27,200
100,000	8,800	500,000	34,800	500,000	33,300
200,000	15,700	600,000	41,300	600,000	39,400
300,000	22,400	700,000	47,800	700,000	45,600
400,000	29,000	800,000	54,400	800,000	51,700
500,000	35,500	900,000	60,900	900,000	57,800
600,000	42,100	1,000,000	67,600	1,000,000	64,000
700,000	48,600	2,000,000	135,900	2,000,000	127,200
800,000	55,200	3,000,000	207,700	3,000,000	193,100
900,000	61,800	4,000,000	282,600	4,000,000	261,400
1,000,000	68,500	5,000,000	360,400	5,000,000	332,000
2,000,000	136,500	6,000,000	440,800	6,000,000	404,700
3,000,000	207,600	7,000,000	523,500	7,000,000	479,300
4,000,000	281,500	8,000,000	608,400	8,000,000	555,700
5,000,000	358,000	9,000,000	695,500	9,000,000	633,700
6,000,000	436,800	10,000,000	784,500	10,000,000	713,400
6,500,000	477,000	11,000,000	875,300	11,000,000	794,600
7,000,000	517,000	12,000,000	968,000	12,000,000	877,200

* $SE = e^{a+b(\ln X)^2}$, where
 $a = 4.424135$
 $b = 0.035154$

** $SE = e^{a+b(\ln X)^2}$, where
 $a = 4.331394$
 $b = 0.035572$

*** $SE = e^{a+b(\ln X)^2}$, where
 $a = 4.390740$
 $b = 0.034978$

1998 NASS GES ESTIMATES AND STANDARD ERRORS

Crash Estimate (x)	Crash Standard Error (SE)	Vehicle Estimate (x)	Vehicle Standard Error (SE)**	Person Estimate (x)	Person Standard Error (SE)***
1,000	400	1,000	400	1,000	500
5,000	1,000	5,000	1,000	5,000	1,000
6,000	1,100	10,000	1,500	10,000	1,600
7,000	1,300	20,000	2,500	20,000	2,400
8,000	1,400	30,000	3,300	30,000	3,200
9,000	1,500	40,000	4,000	40,000	3,900
10,000	1,600	50,000	4,800	50,000	4,600
20,000	2,500	60,000	5,500	60,000	5,200
30,000	3,300	70,000	6,200	70,000	5,900
40,000	4,100	80,000	6,900	80,000	6,500
50,000	4,900	90,000	7,500	90,000	7,100
60,000	5,600	100,000	8,200	100,000	7,700
70,000	6,300	200,000	14,600	200,000	13,200
80,000	7,000	300,000	20,800	300,000	18,400
90,000	7,600	400,000	26,800	400,000	23,500
100,000	8,300	500,000	32,900	500,000	28,500
200,000	14,700	600,000	38,900	600,000	33,400
300,000	20,900	700,000	45,000	700,000	38,300
400,000	27,000	800,000	51,100	800,000	43,100
500,000	33,000	900,000	57,100	900,000	48,000
600,000	39,000	1,000,000	63,200	1,000,000	52,800
700,000	45,000	2,000,000	125,800	2,000,000	101,200
800,000	51,100	3,000,000	191,000	3,000,000	150,200
900,000	57,100	4,000,000	258,600	4,000,000	200,200
1,000,000	63,200	5,000,000	328,600	5,000,000	251,000
2,000,000	125,000	6,000,000	400,500	6,000,000	302,800
3,000,000	189,300	7,000,000	474,400	7,000,000	355,400
4,000,000	255,900	8,000,000	550,100	8,000,000	408,800
5,000,000	324,500	9,000,000	627,500	9,000,000	463,000
6,000,000	395,100	10,000,000	706,400	10,000,000	517,900
6,500,000	431,000	11,000,000	786,900	11,000,000	573,600
7,000,000	467,400	12,000,000	868,900	12,000,000	629,900

* $SE = e^{a+b(\ln X)^2}$, where
 $a = 4.415376$
 $b = 0.034778$

** $SE = e^{a+b(\ln X)^2}$, where
 $a = 4.371851$
 $b = 0.035013$

*** $SE = e^{a+b(\ln X)^2}$, where
 $a = 4.551937$
 $b = 0.033125$

1999 NASS GES ESTIMATES AND STANDARD ERRORS

Crash Estimate (x)	Crash Standard Error (SE)	Vehicle Estimate (x)	Vehicle Standard Error (SE)**	Person Estimate (x)	Person Standard Error (SE)***
1,000	400	1,000	400	1,000	400
5,000	1,000	5,000	1,000	5,000	1,000
6,000	1,100	10,000	1,500	10,000	1,500
7,000	1,300	20,000	2,400	20,000	2,300
8,000	1,400	30,000	3,200	30,000	3,100
9,000	1,500	40,000	3,900	40,000	3,800
10,000	1,600	50,000	4,600	50,000	4,400
20,000	2,500	60,000	5,300	60,000	5,100
30,000	3,300	70,000	6,000	70,000	5,700
40,000	4,100	80,000	6,700	80,000	6,300
50,000	4,800	90,000	7,300	90,000	6,900
60,000	5,500	100,000	8,000	100,000	7,500
70,000	6,200	200,000	14,200	200,000	13,000
80,000	6,900	300,000	20,200	300,000	18,200
90,000	7,600	400,000	26,100	400,000	23,300
100,000	8,300	500,000	32,000	500,000	28,400
200,000	14,600	600,000	37,800	600,000	33,400
300,000	20,800	700,000	43,700	700,000	38,300
400,000	26,800	800,000	49,600	800,000	43,300
500,000	32,800	900,000	55,500	900,000	48,200
600,000	38,800	1,000,000	61,400	1,000,000	53,200
700,000	47,700	2,000,000	122,100	2,000,000	103,000
800,000	50,700	3,000,000	185,400	3,000,000	154,000
900,000	56,700	4,000,000	251,000	4,000,000	206,200
1,000,000	62,700	5,000,000	318,800	5,000,000	259,600
2,000,000	124,100	6,000,000	388,600	6,000,000	314,100
3,000,000	187,800	7,000,000	460,300	7,000,000	369,600
4,000,000	253,800	8,000,000	533,600	8,000,000	426,200
5,000,000	321,800	9,000,000	608,600	9,000,000	483,700
6,000,000	391,700	10,000,000	685,200	10,000,000	542,100
6,500,000	427,300	11,000,000	763,100	11,000,000	601,400
7,000,000	463,300	12,000,000	842,600	12,000,000	661,500

* $SE = e^{a+b(\ln X)^2}$, where
 $a = 4.414534$
 $b = 0.034746$

** $SE = e^{a+b(\ln X)^2}$, where
 $a = 4.348017$
 $b = 0.034987$

*** $SE = e^{a+b(\ln X)^2}$, where
 $a = 4.452860$
 $b = 0.033682$

2000 NASS GES ESTIMATES AND STANDARD ERRORS

Crash Estimate (x)	Crash Standard Error (SE)	Vehicle Estimate (x)	Vehicle Standard Error (SE)**	Person Estimate (x)	Person Standard Error (SE)***
1,000	400	1,000	400	1,000	400
5,000	1,000	5,000	1,000	5,000	1,000
6,000	1,100	10,000	1,500	10,000	1,500
7,000	1,200	20,000	2,400	20,000	2,400
8,000	1,300	30,000	3,100	30,000	3,100
9,000	1,400	40,000	3,900	40,000	3,800
10,000	1,500	50,000	4,600	50,000	4,500
20,000	2,400	60,000	5,300	60,000	5,100
30,000	3,200	70,000	5,900	70,000	5,700
40,000	4,000	80,000	6,600	80,000	6,300
50,000	4,700	90,000	7,200	90,000	6,900
60,000	5,400	100,000	7,900	100,000	7,500
70,000	6,100	200,000	14,000	200,000	13,000
80,000	6,800	300,000	19,900	300,000	18,200
90,000	7,500	400,000	25,700	400,000	23,200
100,000	8,200	500,000	31,500	500,000	28,200
200,000	14,600	600,000	37,300	600,000	33,200
300,000	20,800	700,000	43,100	700,000	38,100
400,000	26,900	800,000	48,900	800,000	43,000
500,000	33,300	900,000	54,700	900,000	47,900
600,000	39,100	1,000,000	60,600	1,000,000	52,800
700,000	45,300	2,000,000	120,400	2,000,000	101,800
800,000	51,400	3,000,000	182,800	3,000,000	151,900
900,000	57,600	4,000,000	247,400	4,000,000	203,000
1,000,000	63,800	5,000,000	314,300	5,000,000	255,200
2,000,000	127,300	6,000,000	383,100	6,000,000	308,400
3,000,000	193,900	7,000,000	453,600	7,000,000	362,700
4,000,000	263,100	8,000,000	525,900	8,000,000	417,800
5,000,000	334,800	9,000,000	599,800	9,000,000	473,800
6,000,000	408,700	10,000,000	675,200	10,000,000	530,700
6,500,000	446,400	11,000,000	752,100	11,000,000	588,400
7,000,000	484,600	12,000,000	830,300	12,000,000	646,900

* $SE = e^{a+b(\ln X)^2}$, where

$$a = 4.336620$$

$$b = 0.035240$$

** $SE = e^{a+b(\ln X)^2}$, where

$$a = 4.335260$$

$$b = 0.034980$$

*** $SE = e^{a+b(\ln X)^2}$, where

$$a = 4.481530$$

$$b = 0.033490$$

2001 NASS GES ESTIMATES AND STANDARD ERRORS

Crash Estimate (x)	Crash Standard Error (SE)	Vehicle Estimate (x)	Vehicle Standard Error (SE)**	Person Estimate (x)	Person Standard Error (SE)***
1,000	400	1,000	400	1,000	400
5,000	1,000	5,000	1,000	5,000	1,000
6,000	1,100	10,000	1,500	10,000	1,400
7,000	1,200	20,000	2,300	20,000	2,200
8,000	1,300	30,000	3,100	30,000	2,900
9,000	1,400	40,000	3,800	40,000	3,600
10,000	1,500	50,000	4,500	50,000	4,200
20,000	2,400	60,000	5,200	60,000	4,800
30,000	3,200	70,000	5,900	70,000	5,400
40,000	4,000	80,000	6,500	80,000	6,000
50,000	4,700	90,000	7,100	90,000	6,500
60,000	5,400	100,000	7,800	100,000	7,100
70,000	6,100	200,000	13,800	200,000	12,200
80,000	6,800	300,000	19,600	300,000	17,100
90,000	7,400	400,000	25,300	400,000	21,900
100,000	8,100	500,000	30,900	500,000	26,500
200,000	14,400	600,000	36,600	600,000	31,100
300,000	20,500	700,000	42,200	700,000	35,700
400,000	26,500	800,000	47,900	800,000	40,300
500,000	32,500	900,000	56,600	900,000	44,900
600,000	38,500	1,000,000	59,300	1,000,000	49,400
700,000	44,500	2,000,000	117,500	2,000,000	95,200
800,000	50,500	3,000,000	178,000	3,000,000	141,700
900,000	56,500	4,000,000	240,800	4,000,000	189,100
1,000,000	62,600	5,000,000	305,500	5,000,000	237,500
2,000,000	124,600	6,000,000	372,100	6,000,000	286,800
3,000,000	189,400	7,000,000	440,400	7,000,000	337,000
4,000,000	256,600	8,000,000	410,300	8,000,000	388,100
5,000,000	326,100	9,000,000	581,700	9,000,000	439,900
6,000,000	397,700	10,000,000	654,600	10,000,000	492,400
6,500,000	432,200	11,000,000	728,800	11,000,000	545,700
7,000,000	471,200	12,000,000	804,300	12,000,000	599,700

* $SE = e^{a+b(\ln X)^2}$, where
 $a = 4.350780$
 $b = 0.035070$

** $SE = e^{a+b(\ln X)^2}$, where
 $a = 4.337980$
 $b = 0.034850$

*** $SE = e^{a+b(\ln X)^2}$, where
 $a = 4.443040$
 $b = 0.033350$

2002 NASS GES ESTIMATES AND STANDARD ERRORS

Crash Estimate (x)	Crash Standard Error (SE)	Vehicle Estimate (x)	Vehicle Standard Error (SE)**	Person Estimate (x)	Person Standard Error (SE)***
1,000	400	1,000	400	1,000	400
5,000	1,000	5,000	1,000	5,000	1,000
6,000	1,100	10,000	1,600	10,000	1,500
7,000	1,200	20,000	2,500	20,000	2,300
8,000	1,300	30,000	3,300	30,000	3,100
9,000	1,400	40,000	4,100	40,000	3,700
10,000	1,500	50,000	4,800	50,000	4,400
20,000	2,500	60,000	5,500	60,000	5,000
30,000	3,300	70,000	6,200	70,000	5,600
40,000	4,100	80,000	6,900	80,000	6,200
50,000	4,800	90,000	7,500	90,000	6,800
60,000	5,500	100,000	8,200	100,000	7,300
70,000	6,300	200,000	14,500	200,000	12,600
80,000	6,900	300,000	20,600	300,000	17,600
90,000	7,600	400,000	26,500	400,000	22,500
100,000	8,300	500,000	32,500	500,000	27,300
200,000	14,800	600,000	38,400	600,000	32,200
300,000	21,100	700,000	44,300	700,000	36,700
400,000	27,400	800,000	50,200	800,000	41,400
500,000	33,600	900,000	56,100	900,000	46,000
600,000	39,800	1,000,000	62,000	1,000,000	50,700
700,000	46,100	2,000,000	122,600	2,000,000	95,200
800,000	52,300	3,000,000	185,400	3,000,000	144,500
900,000	58,600	4,000,000	250,500	4,000,000	192,600
1,000,000	64,900	5,000,000	317,500	5,000,000	241,600
2,000,000	129,600	6,000,000	386,300	6,000,000	291,600
3,000,000	197,200	7,000,000	456,900	7,000,000	342,300
4,000,000	267,700	8,000,000	529,000	8,000,000	393,900
5,000,000	340,500	9,000,000	602,700	9,000,000	446,200
6,000,000	415,600	10,000,000	677,800	10,000,000	499,300
6,500,000	454,000	11,000,000	754,300	11,000,000	553,000
7,000,000	492,800	12,000,000	832,000	12,000,000	607,500

* $SE = e^{a+b(\ln X)^2}$, where
 $a = 4.355970$
 $b = 0.035230$

** $SE = e^{a+b(\ln X)^2}$, where
 $a = 4.414370$
 $b = 0.034690$

*** $SE = e^{a+b(\ln X)^2}$, where
 $a = 4.498340$
 $b = 0.033190$

2003 NASS GES ESTIMATES AND STANDARD ERRORS

Crash Estimate (x)	Crash Standard Error (SE)*	Vehicle Estimate (x)	Vehicle Standard Error (SE)**	Person Estimate (x)	Person Standard Error (SE)***
1,000	400	1,000	400	1,000	400
5,000	900	5,000	900	5,000	900
6,000	1,000	10,000	1,500	10,000	1,400
7,000	1,100	20,000	2,300	20,000	2,200
8,000	1,200	30,000	3,100	30,000	2,900
9,000	1,300	40,000	3,900	40,000	3,500
10,000	1,400	50,000	4,600	50,000	4,200
20,000	2,300	60,000	5,300	60,000	4,800
30,000	3,100	70,000	6,000	70,000	5,400
40,000	3,900	80,000	6,600	80,000	5,900
50,000	4,600	90,000	7,300	90,000	6,500
60,000	5,300	100,000	8,000	100,000	7,100
70,000	6,000	200,000	14,300	200,000	12,300
80,000	6,700	300,000	20,400	300,000	17,400
90,000	7,400	400,000	26,500	400,000	22,300
100,000	8,000	500,000	32,600	500,000	27,200
200,000	14,500	600,000	38,600	600,000	32,000
300,000	20,900	700,000	44,700	700,000	36,800
400,000	27,200	800,000	50,900	800,000	41,600
500,000	33,500	900,000	57,000	900,000	46,500
600,000	39,900	1,000,000	63,200	1,000,000	51,300
700,000	46,300	2,000,000	126,900	2,000,000	99,900
800,000	52,700	3,000,000	194,000	3,000,000	149,900
900,000	59,200	4,000,000	263,900	4,000,000	201,200
1,000,000	65,700	5,000,000	336,400	5,000,000	253,800
2,000,000	133,500	6,000,000	411,300	6,000,000	307,600
3,000,000	205,200	7,000,000	488,400	7,000,000	362,600
4,000,000	280,500	8,000,000	567,500	8,000,000	418,600
5,000,000	359,000	9,000,000	648,600	9,000,000	475,700
6,000,000	440,200	10,000,000	731,500	10,000,000	533,700
6,500,000	481,900	11,000,000	816,100	11,000,000	592,600
7,000,000	524,100	12,000,000	902,400	12,000,000	652,400

* $SE = e^{a+b(\ln X)^2}$, where

$$a = 4.208860$$

$$b = 0.036070$$

** $SE = e^{a+b(\ln X)^2}$, where

$$a = 4.272400$$

$$b = 0.035530$$

*** $SE = e^{a+b(\ln X)^2}$, where

$$a = 4.357200$$

$$b = 0.033990$$

2004 NASS GES ESTIMATES AND STANDARD ERRORS

Crash Estimate (x)	Crash Standard Error (SE)*	Vehicle Estimate (x)	Vehicle Standard Error (SE)**	Person Estimate (x)	Person Standard Error (SE)***
1,000	400	1,000	400	1,000	400
5,000	900	5,000	900	5,000	900
6,000	1,000	10,000	1,400	10,000	1,400
7,000	1,100	20,000	2,300	20,000	2,100
8,000	1,200	30,000	3,100	30,000	2,800
9,000	1,300	40,000	3,800	40,000	3,500
10,000	1,400	50,000	4,500	50,000	4,100
20,000	2,300	60,000	5,200	60,000	4,700
30,000	3,100	70,000	5,900	70,000	5,300
40,000	3,800	80,000	6,600	80,000	5,800
50,000	4,600	90,000	7,200	90,000	6,400
60,000	5,300	100,000	7,900	100,000	6,900
70,000	6,000	200,000	14,200	200,000	12,200
80,000	6,700	300,000	20,300	300,000	17,200
90,000	7,300	400,000	26,300	400,000	22,200
100,000	8,000	500,000	32,400	500,000	27,100
200,000	14,600	600,000	38,500	600,000	31,900
300,000	21,000	700,000	44,600	700,000	36,800
400,000	27,400	800,000	50,700	800,000	41,600
500,000	33,800	900,000	56,900	900,000	46,500
600,000	40,300	1,000,000	63,100	1,000,000	51,400
700,000	46,900	2,000,000	127,200	2,000,000	100,700
800,000	53,400	3,000,000	194,700	3,000,000	151,700
900,000	60,100	4,000,000	265,200	4,000,000	204,200
1,000,000	66,700	5,000,000	338,500	5,000,000	258,100
2,000,000	136,300	6,000,000	414,200	6,000,000	313,400
3,000,000	210,300	7,000,000	492,200	7,000,000	370,000
4,000,000	288,100	8,000,000	572,400	8,000,000	427,800
5,000,000	369,400	9,000,000	654,500	9,000,000	486,600
6,000,000	453,800	10,000,000	738,600	10,000,000	546,600
6,500,000	497,100	11,000,000	824,400	11,000,000	607,500
7,000,000	541,000	12,000,000	912,000	12,000,000	669,400

* $SE = e^{a+b(\ln X)^2}$, where
 $a = 4.168580$
 $b = 0.036360$

** $SE = e^{a+b(\ln X)^2}$, where
 $a = 4.240450$
 $b = 0.035690$

*** $SE = e^{a+b(\ln X)^2}$, where
 $a = 4.297920$
 $b = 0.034310$

2005 NASS GES ESTIMATES AND STANDARD ERRORS

Crash Estimate (x)	Crash Standard Error (SE)*	Vehicle Estimate (x)	Vehicle Standard Error (SE)**	Person Estimate (x)	Person Standard Error (SE)***
1,000	400	1,000	400	1,000	400
5,000	1,000	5,000	1,000	5,000	900
6,000	1,100	10,000	1,500	10,000	1,400
7,000	1,200	20,000	2,400	20,000	2,300
8,000	1,300	30,000	3,200	30,000	3,000
9,000	1,400	40,000	4,000	40,000	3,700
10,000	1,500	50,000	4,700	50,000	4,300
20,000	2,400	60,000	5,400	60,000	5,000
30,000	3,200	70,000	6,100	70,000	5,600
40,000	4,000	80,000	6,800	80,000	6,200
50,000	4,700	90,000	7,500	90,000	6,800
60,000	5,400	100,000	8,200	100,000	7,400
70,000	6,200	200,000	14,700	200,000	12,900
80,000	6,900	300,000	21,000	300,000	18,200
90,000	7,500	400,000	27,300	400,000	23,400
100,000	8,200	500,000	33,600	500,000	28,500
200,000	14,900	600,000	39,800	600,000	33,600
300,000	21,300	700,000	46,200	700,000	38,700
400,000	27,800	800,000	52,500	800,000	43,800
500,000	34,200	900,000	58,900	900,000	48,900
600,000	40,700	1,000,000	65,300	1,000,000	54,000
700,000	47,200	2,000,000	131,600	2,000,000	105,700
800,000	53,700	3,000,000	201,300	3,000,000	158,800
900,000	60,300	4,000,000	274,200	4,000,000	213,600
1,000,000	66,900	5,000,000	350,000	5,000,000	269,800
2,000,000	135,400	6,000,000	428,200	6,000,000	327,300
3,000,000	207,800	7,000,000	508,800	7,000,000	386,200
4,000,000	283,700	8,000,000	591,600	8,000,000	446,200
5,000,000	362,600	9,000,000	676,500	9,000,000	507,400
6,000,000	444,400	10,000,000	763,300	10,000,000	596,600
6,500,000	486,200	11,000,000	852,000	11,000,000	362,900
7,000,000	528,700	12,000,000	942,500	12,000,000	697,100

* $SE = e^{a+b(\ln X)^2}$, where
 $a = 4.254750$
 $b = 0.035920$

** $SE = e^{a+b(\ln X)^2}$, where
 $a = 4.278620$
 $b = 0.035670$

*** $SE = e^{a+b(\ln X)^2}$, where
 $a = 4.372960$
 $b = 0.034180$

2006 NASS GES ESTIMATES AND STANDARD ERRORS

Crash Estimate (x)	Crash Standard Error (SE)*	Vehicle Estimate (x)	Vehicle Standard Error (SE)**	Person Estimate (x)	Person Standard Error (SE)***
1,000	400	1,000	400	1,000	400
5,000	1,000	5,000	900	5,000	900
6,000	1,100	10,000	1,500	10,000	1,400
7,000	1,200	20,000	2,400	20,000	2,200
8,000	1,300	30,000	3,200	30,000	3,000
9,000	1,400	40,000	4,000	40,000	3,600
10,000	1,500	50,000	4,800	50,000	4,300
20,000	2,400	60,000	5,500	60,000	4,900
30,000	3,200	70,000	6,200	70,000	5,500
40,000	4,000	80,000	6,900	80,000	6,200
50,000	4,800	90,000	7,600	90,000	6,700
60,000	5,500	100,000	8,300	100,000	7,300
70,000	6,300	200,000	15,200	200,000	13,000
80,000	7,000	300,000	21,800	300,000	18,300
90,000	7,700	400,000	28,500	400,000	23,700
100,000	8,400	500,000	35,200	500,000	28,900
200,000	15,300	600,000	41,900	600,000	34,200
300,000	22,000	700,000	48,700	700,000	39,400
400,000	28,700	800,000	55,500	800,000	44,600
500,000	35,400	900,000	62,400	900,000	49,900
600,000	42,200	1,000,000	69,300	1,000,000	55,200
700,000	49,100	2,000,000	141,400	2,000,000	108,800
800,000	55,900	3,000,000	218,000	3,000,000	164,300
900,000	62,900	4,000,000	298,500	4,000,000	221,800
1,000,000	69,800	5,000,000	382,600	5,000,000	280,900
2,000,000	142,400	6,000,000	469,800	6,000,000	341,600
3,000,000	219,700	7,000,000	559,900	7,000,000	403,800
4,000,000	300,900	8,000,000	652,800	8,000,000	467,400
5,000,000	385,600	9,000,000	748,200	9,000,000	532,300
6,000,000	473,600	10,000,000	846,100	10,000,000	598,400
6,500,000	518,700	11,000,000	946,200	11,000,000	665,700
7,000,000	564,500	12,000,000	1,048,500	12,000,000	734,100

* $SE = e^{a+b(\ln X)^2}$, where
 $a = 4.223400$
 $b = 0.036310$

** $SE = e^{a+b(\ln X)^2}$, where
 $a = 4.217860$
 $b = 0.036300$

*** $SE = e^{a+b(\ln X)^2}$, where
 $a = 4.315770$
 $b = 0.034590$

2007 NASS GES ESTIMATES AND STANDARD ERRORS

Crash Estimate (x)	Crash Standard Error (SE)*	Vehicle Estimate (x)	Vehicle Standard Error (SE)**	Person Estimate (x)	Person Standard Error (SE)***
1,000	400	1,000	400	1,000	400
5,000	900	5,000	900	5,000	900
6,000	1000	10,000	1,400	10,000	1,400
7,000	1,100	20,000	2,300	20,000	2,200
8,000	1,200	30,000	3,200	30,000	3,000
9,000	1,400	40,000	3,900	40,000	3,700
10,000	1,500	50,000	4,700	50,000	4,400
20,000	2,400	60,000	5,500	60,000	5,000
30,000	3,200	70,000	6,200	70,000	5,700
40,000	4,000	80,000	6,900	80,000	6,300
50,000	4,800	90,000	7,600	90,000	7,000
60,000	5,600	100,000	8,300	100,000	7,600
70,000	6,300	200,000	15,300	200,000	13,600
80,000	7,100	300,000	22,200	300,000	19,500
90,000	7,800	400,000	29,100	400,000	25,300
100,000	8,500	500,000	36,100	500,000	31,100
200,000	15,700	600,000	43,200	600,000	36,900
300,000	22,800	700,000	50,300	700,000	42,700
400,000	29,900	800,000	57,500	800,000	48,600
500,000	37,100	900,000	64,700	900,000	54,500
600,000	44,400	1,000,000	72,000	1,000,000	60,400
700,000	51,700	2,000,000	148,800	2,000,000	121,400
800,000	59,200	3,000,000	231,300	3,000,000	185,600
900,000	66,700	4,000,000	318,700	4,000,000	252,700
1,000,000	74,200	5,000,000	410,300	5,000,000	322,200
2,000,000	153,800	6,000,000	505,800	6,000,000	394,000
3,000,000	239,400	7,000,000	604,800	7,000,000	468,000
4,000,000	330,200	8,000,000	707,000	8,000,000	544,000
5,000,000	425,500	9,000,000	812,400	9,000,000	621,800
6,000,000	524,800	10,000,000	920,800	10,000,000	701,400
6,500,000	575,900	11,000,000	1,031,900	11,000,000	782,700
7,000,000	628,000	12,000,000	1,145,600	12,000,000	865,600

* $SE = e^{a+b(\ln X)^2}$, where

$$a = 4.133760$$

$$b = 0.037100$$

** $SE = e^{a+b(\ln X)^2}$, where

$$a = 4.128400$$

$$b = 0.036970$$

*** $SE = e^{a+b(\ln X)^2}$, where

$$a = 4.217410$$

$$b = 0.035580$$

2008 NASS GES ESTIMATES AND STANDARD ERRORS

Crash Estimate (x)	Crash Standard Error (SE)*	Vehicle Estimate (x)	Vehicle Standard Error (SE)**	Person Estimate (x)	Person Standard Error (SE)***
1,000	400	1,000	400	1,000	400
5,000	900	5,000	1,000	5,000	900
6,000	1,000	10,000	1,500	10,000	1,400
7,000	1,100	20,000	2,400	20,000	2,300
8,000	1,300	30,000	3,300	30,000	3,000
9,000	1,400	40,000	4,100	40,000	3,800
10,000	1,500	50,000	4,800	50,000	4,400
20,000	2,400	60,000	5,600	60,000	5,100
30,000	3,200	70,000	6,300	70,000	5,800
40,000	4,000	80,000	7,100	80,000	6,400
50,000	4,800	90,000	7,800	90,000	7,000
60,000	5,500	100,000	8,500	100,000	7,700
70,000	6,300	200,000	15,400	200,000	13,700
80,000	7,000	300,000	22,200	300,000	19,400
90,000	7,700	400,000	29,000	400,000	25,200
100,000	8,400	500,000	35,800	500,000	30,900
200,000	15,500	600,000	42,600	600,000	36,600
300,000	22,400	700,000	49,500	700,000	42,300
400,000	29,400	800,000	56,500	800,000	48,000
500,000	36,400	900,000	63,500	900,000	53,700
600,000	43,500	1,000,000	70,500	1,000,000	59,500
700,000	50,600	2,000,000	143,700	2,000,000	118,700
800,000	57,800	3,000,000	221,600	3,000,000	180,500
900,000	65,100	4,000,000	303,400	4,000,000	244,800
1,000,000	72,400	5,000,000	388,800	5,000,000	311,300
2,000,000	149,300	6,000,000	477,300	6,000,000	379,900
3,000,000	231,700	7,000,000	568,900	7,000,000	450,300
4,000,000	318,800	8,000,000	663,200	8,000,000	522,400
5,000,000	410,000	9,000,000	760,000	9,000,000	596,200
6,000,000	505,100	10,000,000	859,400	10,000,000	671,600
6,500,000	553,900	11,000,000	961,000	11,000,000	748,400
7,000,000	603,600	12,000,000	1,064,900	12,000,000	826,700

* $SE = e^{a + b (\ln x)^2}$, where
a = 4.158710
b = 0.036840

** $SE = e^{a + b (\ln x)^2}$, where
a = 4.238660
b = 0.036280

*** $SE = e^{a + b (\ln x)^2}$, where
a = 4.283070
b = 0.035160

2009 NASS GES ESTIMATES AND STANDARD ERRORS

Crash Estimate (x)	Crash Standard Error (SE)*	Vehicle Estimate (x)	Vehicle Standard Error (SE)**	Person Estimate (x)	Person Standard Error (SE)***
1,000	400	1,000	400	1,000	400
5,000	1,000	5,000	1,000	5,000	1,000
6,000	1,100	10,000	1,500	6,000	1,100
7,000	1,200	20,000	2,400	7,000	1,200
8,000	1,300	30,000	3,200	8,000	1,300
9,000	1,400	40,000	4,000	9,000	1,400
10,000	1,500	50,000	4,800	10,000	1,500
20,000	2,500	60,000	5,500	20,000	2,500
30,000	3,300	70,000	6,200	30,000	3,300
40,000	4,100	80,000	6,900	40,000	4,100
50,000	4,900	90,000	7,600	50,000	4,900
60,000	5,600	100,000	8,300	60,000	5,600
70,000	6,300	200,000	15,000	70,000	6,300
80,000	7,000	300,000	21,500	80,000	7,000
90,000	7,700	400,000	28,000	90,000	7,700
100,000	8,400	500,000	34,500	100,000	8,400
200,000	15,200	600,000	41,000	200,000	15,200
300,000	21,800	700,000	47,500	300,000	21,800
400,000	28,300	800,000	54,100	400,000	28,300
500,000	34,800	900,000	60,700	500,000	34,800
600,000	41,300	1,000,000	67,300	600,000	41,300
700,000	47,800	2,000,000	136,200	700,000	47,800
800,000	54,400	3,000,000	208,900	800,000	54,400
900,000	61,000	4,000,000	285,100	900,000	61,000
1,000,000	67,700	5,000,000	364,400	1,000,000	67,700
2,000,000	136,400	6,000,000	446,400	2,000,000	136,400
3,000,000	208,900	7,000,000	530,900	3,000,000	208,900
4,000,000	284,500	8,000,000	617,900	4,000,000	284,500
5,000,000	363,100	9,000,000	707,100	5,000,000	363,100
6,000,000	444,400	10,000,000	798,400	6,000,000	444,400
6,500,000	486,000	11,000,000	891,700	6,500,000	486,000
7,000,000	528,100	12,000,000	987,000	7,000,000	528,100
*SE = $e^{a + b (\ln x)^2}$, where a = 4.310860 b = 0.035690		** SE = $e^{a + b (\ln x)^2}$, where a = 4.310860 b = 0.035690		*** SE = $e^{a + b (\ln x)^2}$, where a = 4.310860 b = 0.035690	

2010 NASS GES ESTIMATES AND STANDARD ERRORS

Crash Estimate (x)	Crash Standard Error (SE)*	Vehicle Estimate (x)	Vehicle Standard Error (SE)**	Person Estimate (x)	Person Standard Error (SE)***
1,000	400	1,000	400	1,000	400
5,000	900	5,000	1,100	5,000	900
6,000	1,000	10,000	1,700	10,000	1,400
7,000	1,100	20,000	2,800	20,000	2,200
8,000	1,200	30,000	3,800	30,000	2,900
9,000	1,300	40,000	4,700	40,000	3,500
10,000	1,400	50,000	5,600	50,000	4,100
20,000	2,300	60,000	6,400	60,000	4,700
30,000	3,000	70,000	7,300	70,000	5,300
40,000	3,700	80,000	8,100	80,000	5,900
50,000	4,400	90,000	8,900	90,000	6,400
60,000	5,100	100,000	9,700	100,000	7,000
70,000	5,700	200,000	17,700	200,000	12,100
80,000	6,300	300,000	25,500	300,000	16,900
90,000	7,000	400,000	33,300	400,000	21,600
100,000	7,600	500,000	41,100	500,000	26,200
200,000	13,500	600,000	48,900	600,000	30,700
300,000	19,200	700,000	56,800	700,000	35,300
400,000	24,900	800,000	64,800	800,000	39,800
500,000	30,500	900,000	72,800	900,000	44,300
600,000	36,100	1,000,000	80,900	1,000,000	48,800
700,000	41,800	2,000,000	164,900	2,000,000	94,000
800,000	47,400	3,000,000	254,100	3,000,000	140,100
900,000	53,100	4,000,000	348,000	4,000,000	187,100
1,000,000	58,800	5,000,000	445,900	5,000,000	235,100
2,000,000	117,300	6,000,000	547,500	6,000,000	284,000
3,000,000	178,400	7,000,000	652,500	7,000,000	333,700
4,000,000	242,000	8,000,000	760,700	8,000,000	384,300
5,000,000	307,700	9,000,000	871,800	9,000,000	435,700
6,000,000	375,400	10,000,000	985,700	10,000,000	487,900
6,500,000	410,000	11,000,000	1,102,300	11,000,000	540,800
7,000,000	445,000	12,000,000	1,221,500	12,000,000	594,400
* $SE = e^{a + b (\ln x)^2}$, where a = 4.271330 b = 0.035160		** $SE = e^{a + b (\ln x)^2}$, where a = 4.375840 b = 0.036280		*** $SE = e^{a + b (\ln x)^2}$, where a = 4.420770 b = 0.033400	

2011 NASS GES ESTIMATES AND STANDARD ERRORS

Crash Estimate (x)	Crash Standard Error (SE)*	Vehicle Estimate (x)	Vehicle Standard Error (SE)**	Person Estimate (x)	Person Standard Error (SE)***
1,000	300	1,000	400	1,000	400
5,000	800	5,000	1,000	5,000	900
6,000	1,000	10,000	1,600	10,000	1,400
7,000	1,100	20,000	2,600	20,000	2,200
8,000	1,100	30,000	3,600	30,000	2,900
9,000	1,200	40,000	4,500	40,000	3,600
10,000	1,300	50,000	5,400	50,000	4,200
20,000	2,200	60,000	6,300	60,000	4,900
30,000	2,900	70,000	7,200	70,000	5,500
40,000	3,700	80,000	8,000	80,000	6,100
50,000	4,400	90,000	8,900	90,000	6,700
60,000	5,100	100,000	9,700	100,000	7,300
70,000	5,800	200,000	18,100	200,000	13,100
80,000	6,400	300,000	26,400	300,000	18,800
90,000	7,100	400,000	34,800	400,000	24,300
100,000	7,800	500,000	43,400	500,000	29,900
200,000	14,200	600,000	52,000	600,000	35,400
300,000	20,600	700,000	60,800	700,000	41,000
400,000	27,000	800,000	69,700	800,000	46,600
500,000	33,500	900,000	78,600	900,000	52,200
600,000	40,000	1,000,000	87,700	1,000,000	57,800
700,000	46,600	2,000,000	184,000	2,000,000	115,900
800,000	53,200	3,000,000	288,500	3,000,000	176,700
900,000	59,900	4,000,000	400,000	4,000,000	240,200
1,000,000	66,700	5,000,000	517,700	5,000,000	305,900
2,000,000	137,600	6,000,000	640,800	6,000,000	373,700
3,000,000	213,800	7,000,000	769,000	7,000,000	443,400
4,000,000	294,300	8,000,000	902,000	8,000,000	515,000
5,000,000	378,700	9,000,000	1,039,400	9,000,000	588,200
6,000,000	466,600	10,000,000	1,180,900	10,000,000	663,100
6,500,000	511,800	11,000,000	1,326,500	11,000,000	739,500
7,000,000	557,800	12,000,000	1,475,900	12,000,000	817,400
* $SE = e^{a + b (\ln x)^2}$, where a = 4.064970 b = 0.036900		** $SE = e^{a + b (\ln x)^2}$, where a = 4.182410 b = 0.037720		*** $SE = e^{a + b (\ln x)^2}$, where a = 4.210580 b = 0.035390	

2012 NASS GES ESTIMATES AND STANDARD ERRORS

Crash Estimate (x)	Crash Standard Error (SE)*	Vehicle Estimate (x)	Vehicle Standard Error (SE)**	Person Estimate (x)	Person Standard Error (SE)***
1,000	300	1,000	400	1,000	400
5,000	800	5,000	1,000	5,000	900
6,000	900	10,000	1,600	10,000	1,400
7,000	1,000	20,000	2,700	20,000	2,200
8,000	1,100	30,000	3,700	30,000	3,000
9,000	1,200	40,000	4,700	40,000	3,700
10,000	1,300	50,000	5,700	50,000	4,400
20,000	2,200	60,000	6,600	60,000	5,100
30,000	3,000	70,000	7,500	70,000	5,800
40,000	3,800	80,000	8,400	80,000	6,400
50,000	4,500	90,000	9,300	90,000	7,100
60,000	5,300	100,000	10,200	100,000	7,700
70,000	6,000	200,000	19,200	200,000	13,900
80,000	6,700	300,000	28,300	300,000	20,000
90,000	7,400	400,000	37,500	400,000	26,000
100,000	8,100	500,000	46,900	500,000	32,100
200,000	15,200	600,000	56,400	600,000	38,200
300,000	22,300	700,000	66,100	700,000	44,300
400,000	29,400	800,000	75,900	800,000	50,400
500,000	36,700	900,000	85,800	900,000	56,600
600,000	44,100	1,000,000	95,900	1,000,000	62,800
700,000	51,600	2,000,000	203,700	2,000,000	127,100
800,000	59,100	3,000,000	322,000	3,000,000	195,200
900,000	66,800	4,000,000	448,900	4,000,000	266,500
1,000,000	74,600	5,000,000	583,500	5,000,000	340,700
2,000,000	157,300	6,000,000	724,900	6,000,000	417,500
3,000,000	247,500	7,000,000	872,600	7,000,000	496,800
4,000,000	344,000	8,000,000	1,026,300	8,000,000	578,300
5,000,000	446,000	9,000,000	1,185,400	9,000,000	661,900
6,000,000	552,900	10,000,000	1,349,800	10,000,000	747,600
6,500,000	608,100	11,000,000	1,519,100	11,000,000	835,100
7,000,000	664,400	12,000,000	1,693,300	12,000,000	924,500
* $SE = e^{a + b (\ln x)^2}$, where a = 3.969060 b = 0.037990		** $SE = e^{a + b (\ln x)^2}$, where a = 4.149790 b = 0.038360		*** $SE = e^{a + b (\ln x)^2}$, where a = 4.187610 b = 0.035940	

2013 NASS GES ESTIMATES AND STANDARD ERRORS

Crash Estimate (x)	Crash Standard Error (SE)*	Vehicle Estimate (x)	Vehicle Standard Error (SE)**	Person Estimate (x)	Person Standard Error (SE)***
1,000	400	1,000	500	1,000	400
5,000	1,000	5,000	1,200	5,000	1,000
6,000	1,100	10,000	1,800	10,000	1,500
7,000	1,300	20,000	3,000	20,000	2,500
8,000	1,400	30,000	4,000	30,000	3,300
9,000	1,500	40,000	5,000	40,000	4,100
10,000	1,600	50,000	6,000	50,000	4,800
20,000	2,500	60,000	6,900	60,000	5,600
30,000	3,400	70,000	7,800	70,000	6,300
40,000	4,200	80,000	8,700	80,000	7,000
50,000	4,900	90,000	9,600	90,000	7,700
60,000	5,700	100,000	10,500	100,000	8,400
70,000	6,400	200,000	19,200	200,000	15,000
80,000	7,100	300,000	27,800	300,000	21,500
90,000	7,800	400,000	36,400	400,000	27,900
100,000	8,500	500,000	45,000	500,000	34,300
200,000	15,200	600,000	53,700	600,000	40,700
300,000	21,600	700,000	62,500	700,000	47,200
400,000	28,000	800,000	71,400	800,000	53,600
500,000	34,400	900,000	80,300	900,000	60,200
600,000	40,800	1,000,000	89,400	1,000,000	66,700
700,000	47,200	2,000,000	183,700	2,000,000	134,100
800,000	53,600	3,000,000	284,600	3,000,000	205,100
900,000	60,000	4,000,000	391,100	4,000,000	279,200
1,000,000	66,500	5,000,000	502,700	5,000,000	356,000
2,000,000	132,900	6,000,000	618,700	6,000,000	435,500
3,000,000	202,400	7,000,000	738,800	7,000,000	517,200
4,000,000	274,700	8,000,000	862,800	8,000,000	601,200
5,000,000	349,600	9,000,000	990,400	9,000,000	687,200
6,000,000	426,800	10,000,000	1,121,400	10,000,000	775,200
6,500,000	466,200	11,000,000	1,255,600	11,000,000	865,100
7,000,000	506,200	12,000,000	1,393,000	12,000,000	956,700

* $SE = e^{a + b (\ln x)^2}$, where
a = 4.372800
b = 0.035270

** $SE = e^{a + b (\ln x)^2}$, where
a = 4.395660
b = 0.036700

*** $SE = e^{a + b (\ln x)^2}$, where
a = 4.314880
b = 0.035590

2014 NASS GES ESTIMATES AND STANDARD ERRORS

Crash Estimate (x)	Crash Standard Error (SE)*	Vehicle Estimate (x)	Vehicle Standard Error (SE)**	Person Estimate (x)	Person Standard Error (SE)***
1,000	400	1,000	500	1,000	400
5,000	900	5,000	1,200	5,000	900
6,000	1,000	10,000	1,900	10,000	1,400
7,000	1,100	20,000	3,100	20,000	2,400
8,000	1,200	30,000	4,200	30,000	3,200
9,000	1,300	40,000	5,300	40,000	4,000
10,000	1,400	50,000	6,300	50,000	4,700
20,000	2,400	60,000	7,300	60,000	5,500
30,000	3,200	70,000	8,300	70,000	6,200
40,000	4,000	80,000	9,300	80,000	6,900
50,000	4,900	90,000	10,300	90,000	7,600
60,000	5,600	100,000	11,300	100,000	8,300
70,000	6,400	200,000	21,000	200,000	15,200
80,000	7,200	300,000	30,700	300,000	22,000
90,000	8,000	400,000	40,600	400,000	28,800
100,000	8,700	500,000	50,500	500,000	35,700
200,000	16,200	600,000	60,600	600,000	42,600
300,000	23,800	700,000	70,800	700,000	49,500
400,000	31,400	800,000	81,100	800,000	56,500
500,000	39,100	900,000	91,600	900,000	63,600
600,000	46,900	1,000,000	102,200	1,000,000	70,700
700,000	54,900	2,000,000	214,400	2,000,000	145,300
800,000	62,900	3,000,000	336,400	3,000,000	225,100
900,000	71,000	4,000,000	466,500	4,000,000	309,200
1,000,000	79,300	5,000,000	603,800	5,000,000	397,300
2,000,000	166,700	6,000,000	747,600	6,000,000	488,900
3,000,000	261,800	7,000,000	897,300	7,000,000	583,800
4,000,000	363,400	8,000,000	1,052,500	8,000,000	681,700
5,000,000	470,700	9,000,000	1,213,000	9,000,000	782,400
6,000,000	583,100	10,000,000	1,378,300	10,000,000	885,800
6,500,000	641,100	11,000,000	1,548,400	11,000,000	991,800
7,000,000	700,200	12,000,000	1,722,900	12,000,000	1,100,200
* $SE = e^{a + b (\ln x)^2}$, where a = 4.056340 b = 0.037850		** $SE = e^{a + b (\ln x)^2}$, where a = 4.329200 b = 0.037750		*** $SE = e^{a + b (\ln x)^2}$, where a = 4.167630 b = 0.036670	

2015 NASS GES ESTIMATES AND STANDARD ERRORS

Crash Estimate (x)	Crash Standard Error (SE)*	Vehicle Estimate (x)	Vehicle Standard Error (SE)**	Person Estimate (x)	Person Standard Error (SE)***
1,000	400	1,000	500	1,000	400
5,000	900	5,000	1,200	5,000	1,000
6,000	1,000	10,000	1,900	10,000	1,500
7,000	1,100	20,000	3,000	20,000	2,400
8,000	1,200	30,000	4,100	30,000	3,300
9,000	1,300	40,000	5,200	40,000	4,100
10,000	1,400	50,000	6,200	50,000	4,900
20,000	2,400	60,000	7,100	60,000	5,700
30,000	3,200	70,000	8,100	70,000	6,400
40,000	4,000	80,000	9,100	80,000	7,200
50,000	4,800	90,000	10,000	90,000	7,900
60,000	5,500	100,000	11,000	100,000	8,600
70,000	6,300	200,000	20,200	200,000	15,800
80,000	7,000	300,000	29,400	300,000	22,900
90,000	7,800	400,000	38,700	400,000	30,000
100,000	8,500	500,000	48,000	500,000	37,100
200,000	15,800	600,000	57,400	600,000	44,300
300,000	22,900	700,000	67,000	700,000	51,500
400,000	30,200	800,000	76,600	800,000	58,800
500,000	37,500	900,000	86,400	900,000	66,200
600,000	44,900	1,000,000	96,300	1,000,000	73,700
700,000	52,400	2,000,000	200,000	2,000,000	151,500
800,000	60,000	3,000,000	312,000	3,000,000	234,800
900,000	67,600	4,000,000	430,900	4,000,000	322,800
1,000,000	75,300	5,000,000	555,900	5,000,000	414,900
2,000,000	156,900	6,000,000	686,300	6,000,000	510,800
3,000,000	245,100	7,000,000	821,800	7,000,000	610,100
4,000,000	338,800	8,000,000	962,000	8,000,000	712,500
5,000,000	437,400	9,000,000	1,106,600	9,000,000	818,000
6,000,000	540,300	10,000,000	1,255,300	10,000,000	926,300
6,500,000	593,400	11,000,000	1,408,100	11,000,000	1,037,300
7,000,000	647,400	12,000,000	1,564,600	12,000,000	1,150,900

* $SE = e^{a + b (\ln x)^2}$, where
a = 4.097120
b = 0.037370

** $SE = e^{a + b (\ln x)^2}$, where
a = 4.363020
b = 0.037260

*** $SE = e^{a + b (\ln x)^2}$, where
a = 4.196760
b = 0.036730