ACCIDENT RATE CALLS

Weighted-average accident rates

Formula

$$RATE = \frac{\sum Distance_{Rural} \times Accident\ Rate_{Rural}}{Total\ One\text{-}way\ Distance}$$

Distances by Population Density Range are Taken from TRAGIS Output Files

1.00E-07 Accident Rate Coeff. Rates below are per 1E+7 km

ST	MILES	0	>0 0 -22 7	22.7 -59 7	59.7 -139	RURAL	139 -326	326 -821	821 -1861	1861 -3326	SUB-URBAN	3326 -5815	5815 -9996	>9996	URBAN	AR	AS	AU	R*AR	S*AS	U*AU	
FRO	M. BRAI	DWOOD N P			IL																	
TO	: YUCC	A MOUNT	AIN		NV																	
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AZ	29.2	16.21	10 81	1.58	0 33	28.93	0.13	0 21	0	0	0 34	0	0	0	0	1.32	0.81	0 04	38.19	0.25		
IL	152.2	22.23	38.53	30 48	25.16	116 4	15 66	9.77	5.77	3 07	34 27	1 21	0.3	0	1 51	2.22	2.74	13.82	258 41	91 90	20 87	
IA	300 2	26 4	71.62	91.2	51 29	240.51	24.67	17.99	10.28	3.79	56.73	2.22	0 59	0.2	3 01	1.12	1.72	2.47	269 37	97.53	7.43	
NE	456 6	167.07	80 87	107.72	49 64	405.3	24.69	10.77	7.27	4.24	46 97	2.75	1 02	0.59	4.36	3.19	5 82	4.97	1,292.91	273 37	21.67	
NV	167.5	108.64	21.2	17.69	9 5	157.03	3.95	3 63	1 23	0.76	9 57	0 52	0 4	0	0.92	2.25	3 80	0.29	353.32	36 37	0.27	
UT	379 2	117.87	69 94	66.59	35.46	292 86	23 83	17.47	14 45	10 59	66.34	10 4	8.11	1.52	20.03	2 90	3 05	9.04	849.29	202.34	181.07	
WY	400 5	207.08	105 56	52.54	12.14	377.32	6 48	6.02	4 33	4.26	21.09	1.86	0.22	0 06	2.14	6.74	7 41	5.56	2,543.14	156.23	11.90	
											0				0							
TOT	ALS					1589 42					234.97				31 97				9.53E-07	3.66E-07	7.81E-07	<<< These are the weighted average accident rates
FRO	M: CLIN	TON NP			IL	0																
TO	: YUCC	A MOUNT	AIN		NV	0																
AZ	29.2	16 21	10.81	1.58	0 33	28 93	0.13	0 21	0	0	0 34	0	0	0	0	1.32	0.81	0 04	38.19	0.25		
IL	178.1	24.38	39 46	36 68	29 46	129.93	20.19	14 39	8 61	3.24	46 43	1 43	0.26	0	1 69	2.22	2.74	13 82	288.56	127.22	23.36	
IA	300.2	26 4	71 62	91.2	51.29	240.51	24.67	17.99	10 28	3.79	56.73	2 22	0 59	0 2	3 01	1.12	1.72	2 47	269.37	97.53	7.43	
NE	456 6	167.07	80 87	107.72	49 64	405.3	24.69	10.77	7.27	4.24	46 97	2.75	1.02	0.59	4.36	3.19	5 82	4.97	1,292.91	273.37	21.67	
NV	167.5	108.64	21.2	17.69	9 5	157.03	3.95	3 63	1 23	0.76	9 57	0 52	0 4	0	0 92	2 25	3 80	0.29	353.32	36.37	0.27	
UT	379 2	117.87	69 94	66.59	35 46	292 86	23 83	17 47	14 45	10.59	66.34	10 4	8.11	1.52	20 03	2 90	3.05	9.04	849.29	202.34	181.07	
WY	400 5	207.08	105 56	52.54	12.14	377.32	6 48	6 02	4.33	4.26	21.09	1 86	0 22	0.06	2.14	6 74	7.41	5.56	2,543.14	156.23	11.90	
TOT	ALS					1631 93					247.47				32.15				9.45E-07	3.91E-07	7.84E-07	<<< These are the weighted average accident rates
FRO	M: GRAN	D GULF	NP		MS																	
TO	: YUCC	A MOUNT	AIN		NV																	
AZ	29 2	16.21	10.81	1.58	0.33	28 93	0.13	0.21	0	0	0.34	0	0	0	0	1.32	0 81	0 04	38.19	0.28		
CO	258.9	84.37	69.94	44.83	21.44	220 58	13.5	9.38	5 9	3.52	32.3	3 41	2.12	0.53	6.06	4 46	3 81	5.46	983.79	123 06	33 09	
KS	393.1	139 56	94.67	78.14	31.58	343 95	19.74	11.33	8.15	5 98	45.25	3.1	0 91	0	4.01	2.25	1.38	0.43	773.89	62.45	1.72	
LA	191 6	34 23	34 9	38.23	21.14	128 5	22.74	21.8	11.08	4.3	59.92	2.83	0.33	0 07	3.23	3.10	10.33	5.33	398.35	618 97	17.22	
MS	30.6	3.31	9.83	7.23	3.19	23 56	2 44	2.53	1 41	0 67	7.05	0	0	0	0	4.64	5.38	9.29	108.32	37.93		
NV	167.5	108 64	21.2	17.69	9.5	157.03	3 95	3.63	1.23	0 76	9 57	0.52	0 4	0	0.92	2.25	3.80	0 29	353.32	36.37	0.27	
OK	246.4	45.13	43.51	65.26	31.64	190.59	13.72	11.76	10.9	9 51	45 89	6.59	2.9	0 49	9.98	1.64	0.38	0 91	312.57	17.44	9 03	
TX	247.2	7.44	42.45	57.67	40 61	148.17	30 48	19.82	15.83	12.3	78 43	10.41	5.78	4 35	20.54	6.00	6.96	7.36	889.02	545.87	151.17	
UT	379.2	117 87	69.94	66.59	35 46	292.86	23 83	17.47	14.45	10 59	66.34	10.4	8.11	1 52	20 03	2.90	3 05	9 04	849.29	202.34	181 07	
WY	366.5	196 64	99.25	43.38	9 62	348.89	5.48	4.79	3.35	2 52	16.14	1.31	0.12	0 06	1 49	6.74	7.41	5 56	2,351.52	119.60	8.23	
TOT	ALS					1833.06					361.23				66 26				3.75E-07	4.88E-07	6.07E-07	<<< These are the weighted average accident rates
FRO	M: FITZ	PATRICK	NP		NY																	
TO	: YUCC	A MOUNT	AIN		NV																	
AZ	29.2	16.21	10.81	1.58	0.33	28 93	0.13	0.21	0	0	0.34	0	0	0	0	1.32	0 81	0.04	38.19	0.25		
IL	169 9	20.49	37.06	30.19	25.64	113.38	13.89	14.12	10 91	5 92	49.84	3 91	2.3	0.4	6.61	2.22	2.74	13.82	251.70	136.56	91.25	
IN	151.2	1.73	19 97	37.4	25.85	84 95	28 69	17.16	8 92	5.71	60.48	3 55	1 89	0.41	5.85	2.25	1.38	0.43	191.14	83.46	2.52	
IA	300.2	26.4	71.62	91.2	51.29	240.51	24 67	17.99	10 28	3.79	56.73	2.22	0 59	0 2	3.01	1.12	1.72	2 47	269.37	97.53	7.43	
NE	456.60	167.07	80.87	107.72	49.64	405.3	24 69	10.77	7.27	4.24	46.97	2.75	1.02	0 59	4.36	3.19	5.82	4 97	1,292.91	273.37	21 67	
NV	167.5	108 64	21.2	17.69	9 5	157.03	3 95	3 63	1.23	0 76	9.57	0.52	0.4	0	0.92	2.25	3.80	0.29	353.32	36.37	0.27	
NY	256.3	6 82	35.5	58.08	42.32	142.72	30.77	35.33	23.55	12.48	102.13	7.47	3.7	0.36	11 53	3.15	3.66	6.54	449 57	373.80	75.41	
OH	260.2	5.75	37.34	52.67	45 4	141.16	42 6	30 83	20.18	12.73	106.32	8.34	3.33	1 09	12.76	1.64	0.38	0 91	231.50	40.40	11.61	
PA	46.2	1.03	3 99	6.76	10.3	22 08	12.16	9 5	2.12	0.35	24.13	0	0	0	0	5.14	7.28	21.47	113 49	175.13		
UT	379.2	117.87	69 94	66.59	35 46	292 86	23.83	17.47	14 45	10 59	66.34	10 4	8.11	1.52	20 03	2 90	3 05	9.04	849.29	202.34	181.07	
WY	400.5	207.08	105 56	52.54	12.14	377.32	6 48	6 02	4 33	4 26	21.09	1.86	0 22	0.06	2.14	6.74	7.41	5.56	2,543.14	156.23	11 90	
TOT	ALS					2006.24					543 94				67.21				9.28E-07	2.90E-07	6.00E-07	<<< These are the weighted average accident rates
FRO	M: NORT	H ANNA	NP		VA																	
TO	: YUCC	A MOUNT	AIN		NV																	
AZ	29.2	16.21	10.81	1.58	0 33	28.93	0.13	0.21	0	0	0.34	0	0	0	0	1.32	0.81	0.04	38.19	0.25		
IL	140.7	24.41	37.51	25.21	18.3	105 43	17.81	9.81	4 74	2 02	34.38	0 9	0	0	0.9	2.22	2.74	13.82	234.05	94.26	12.44	
IN	122.9	9 87	35 59	30 97	26.95	103 38	10 96	4.85	2.43	0.71	18.95	0.46	0 06	0	0 52	2 25	1.38	0.43	232.61	26.15	0.22	
IA	102	7.7	22 91	37.5	21.24	89.35	8.36	1.67	1 65	0 49	12.37	0.24	0 06	0	0.3	1.12	1.72	2.47	100.07	21.23	0 74	
KY	190.3	5 94	24.71	46.05	46.04	122.74	25 41	13.99	8.94	5 47	61 81	2.8	2.3	0.71	5.81	3.10	10.33	5.33	380.49	638.56	30 97	
MO	376.5	55.23	71.47	73 59	53.55	253 84	34.74	28.83	25.83	16 32	105.72	12.23	3 99	0.74	16.96	4 64	5.38	9.29	1,177.82	563.77	157.56	
NE	456.60	167.07	80.87	107.72	49.64	405.3	24 69	10.77	7.27	4 24	46 97	2.75	1.02	0.59	4.36	3.19	5.82	4.97	1,292.91	273.37	21 67	
NV	167.5	108 64	21.2	17.69	9.5	157.03	3 95	3.63	1.23	0 76	9 57	0.52	0 4	0	0.92	2.25	3.80	0 29	353.32	36.37	0 27	
UT	379.2	117.87	69.94	66 59	38 46	292.86	23 83	17.47	14.45	10 59	66.34	10.4	8.11	1 52	20.03	2 90	3.05	9 04	849.29	202.34	181.07	
VA	190.4	15.14	39.34	48 24	36 32	139.04	25 48	14.73	7.74	2 29	50 24	0.87	0.18	0	1.05	2 90	3 05	9 04	403.22	153.23	9.49	

WY	400.5	207.08	105.56	52.54	12.14	377.32	6.48	6.02	4.33	4.26	21.09	1.86	0.22	0.06	2.14	6.74	7.41	5.56	2,543.14	156.28	11.80		
TOT	ALS					2144.67					504.46				61.6				3.67E-07	4.57E-07	7.09E-07	<<< These are the weighted average accident rates	
FRO	M. PORT	SMOUTH	GDP		OH																		
TO	: YUCC	A MOUNT	AIN		NV																		
AZ	29.2	16.21	10.81	1.58	0.33	28.93	0.13	0.21	0	0	0.34	0	0	0	0	1.32	0.81	0.04	33.19	0.28	-		
IL	140.7	24.41	37.51	25.21	18.3	105.43	17.81	9.81	4.74	2.02	34.33	0.9	0	0	0.9	2.22	2.74	13.82	234.05	94.20	12.44		
IN	122.9	9.87	35.59	30.97	26.95	103.38	10.96	4.85	2.43	0.71	18.95	0.46	0.06	0	0.52	2.25	1.38	0.43	232.81	26.15	0.22		
IA	102	7.7	22.91	37.5	21.24	89.35	8.36	1.67	1.85	0.49	12.37	0.24	0.06	0	0.3	1.12	1.72	2.47	100.07	21.28	0.74		
KY	229	7.9	26.89	51.71	53.55	140.05	34.55	25.17	14.18	7.63	81.53	3.82	2.9	0.71	7.43	3.10	10.33	5.33	434.16	842.20	29.80		
MO	376.5	55.23	71.47	73.59	53.55	253.84	34.74	28.83	25.83	16.32	105.72	12.23	3.99	0.74	16.96	4.64	5.38	9.29	1,177.82	563.77	157.56		
NE	456.6	167.07	80.87	107.72	49.64	405.3	24.69	10.77	7.27	4.24	46.97	2.75	1.02	0.59	4.36	3.19	5.82	4.97	1,292.91	273.37	21.67		
NV	167.5	108.64	21.2	17.69	9.5	157.03	3.95	3.63	1.23	0.76	9.57	0.52	0.4	0	0.92	2.25	3.80	0.29	353.32	38.37	0.27		
OH	20.5	0.57	5.1	3.94	4.8	14.41	2.15	1.17	0.54	1.05	4.91	0.62	0.4	0.16	1.18	1.64	0.38	0.91	23.83	1.87	1.07		
UT	379.2	117.87	69.94	66.59	35.46	292.86	23.83	17.47	14.45	10.59	66.34	10.4	8.11	1.52	20.03	2.90	3.05	9.04	849.29	202.34	181.07		
WY	400.5	207.08	105.56	52.54	12.14	377.32	6.48	6.02	4.33	4.26	21.09	1.86	0.22	0.06	2.14	6.74	7.41	5.56	2,543.14	156.28	11.80		
TOT	ALS					1967.9					402.17				54.74				3.70E-07	5.63E-07	7.79E-07	<<< These are the weighted average accident rates	
FRO	M: PILG	RIM NP			MA																		
TO	: YUCC	A MOUNT	AIN		NV																		
AZ	29.20	16.21	10.81	1.58	0.33	28.93	0.13	0.21	-	-	0.34	-	-	-	-	1.32	0.81	0.04	33.19	0.28	-		
CT	97.80	0.84	3.17	6.51	11.17	21.69	14.89	17.85	18.78	11.05	62.57	6.77	4.00	2.67	13.44	9.04	3.47	31.93	196.08	217.12	428.14		
IL	169.90	20.49	37.06	30.19	25.64	113.38	18.89	14.12	10.91	5.92	49.84	3.91	2.30	0.40	6.61	2.22	2.74	13.82	261.70	136.58	91.35		
IN	151.20	1.73	19.97	37.40	25.85	84.95	28.69	17.16	8.92	5.71	60.48	3.55	1.89	0.41	5.85	2.25	1.35	0.43	193.14	83.48	2.52		
IA	300.20	26.40	71.62	91.20	51.29	240.51	24.67	17.99	10.28	3.79	56.73	2.22	0.59	0.20	3.01	1.12	1.72	2.47	269.37	97.58	7.43		
MA	101.50	1.10	2.97	10.56	16.41	31.04	22.30	24.12	15.29	5.89	67.60	2.64	0.31	-	2.95	0.86	1.81	12.89	28.69	122.38	25.03		
NE	456.60	167.07	80.87	107.72	49.64	405.30	24.69	10.77	7.27	4.24	46.97	2.75	1.02	0.59	4.36	3.19	5.82	4.97	1,292.91	273.37	21.67		
NV	167.50	108.64	21.20	17.69	9.50	157.03	3.95	3.63	1.23	0.76	9.57	0.52	0.40	-	0.92	2.25	3.80	0.29	353.32	38.37	0.27		
NY	71.20	4.42	8.91	9.27	9.66	32.26	10.39	10.26	10.94	4.52	36.11	2.20	0.46	0.16	2.82	3.15	3.66	6.54	101.82	132.18	13.44		
OH	235.70	5.72	33.46	51.15	42.00	132.33	37.13	29.21	17.55	10.23	94.12	6.65	1.89	0.63	9.22	1.64	0.38	0.91	217.02	35.77	5.39		
PA	348.90	31.84	70.84	69.95	65.58	238.21	49.24	36.12	16.14	5.12	106.62	2.54	1.22	0.29	4.05	5.14	7.26	21.47	1,224.40	774.06	85.93		
UT	379.20	117.87	69.94	66.59	35.46	292.86	23.83	17.47	14.45	10.59	66.34	10.40	8.11	1.52	20.03	2.90	3.05	9.04	849.29	202.34	181.07		
WY	400.50	207.08	105.56	52.54	12.14	377.32	6.48	6.02	4.33	4.26	21.09	1.86	0.22	0.06	2.14	6.74	7.41	5.56	2,543.14	156.28	11.80		
TOT	ALS					2105.19					615.47				61.96				3.59E-07	2.63E-07	1.45E-06	<<< These are the weighted average accident rates	
FRO	M: QUAD	CITIES	NP		IL																		
TO	: YUCC	A MOUNT	AIN		NV																		
AZ	29.2	16.21	10.81	1.58	0.33	28.93	0.13	0.21	0	0	0.34	0	0	0	0	1.32	0.81	0.04	33.19	0.28	-		
IL	39.4	3.64	5.73	6.65	5.05	21.07	7.63	5.76	3.47	1.13	18.04	0.24	0.06	0	0.3	2.22	2.74	13.82	48.78	49.43	4.15		
IA	300.2	26.4	71.62	91.2	51.29	240.51	24.67	17.99	10.28	3.79	56.73	2.22	0.59	0.2	3.01	1.12	1.72	2.47	269.37	97.58	7.43		
NE	456.6	167.07	80.87	107.72	49.64	405.3	24.69	10.77	7.27	4.24	46.97	2.75	1.02	0.59	4.36	3.19	5.82	4.97	1,292.91	273.37	21.67		
NV	167.5	108.64	21.2	17.69	9.5	157.03	3.95	3.63	1.23	0.76	9.57	0.52	0.4	0	0.92	2.25	3.80	0.29	353.32	38.37	0.27		
UT	379.2	117.87	69.94	66.59	35.46	292.86	23.83	17.47	14.45	10.59	66.34	10.4	8.11	1.52	20.03	2.90	3.05	9.04	849.29	202.34	181.07		
WY	400.5	207.08	105.56	52.54	12.14	377.32	6.48	6.02	4.33	4.26	21.09	1.86	0.22	0.06	2.14	6.74	7.41	5.56	2,543.14	156.28	11.80		
TOT	ALS					1523.02					219.08				30.76				3.64E-07	2.72E-07	7.39E-07	<<< These are the weighted average accident rates	
ROM	: SRS				SC																		
TO	: YUCC	A MOUNT	AIN		NV																		
AZ	29.2	16.21	10.81	1.58	0.33	28.93	0.13	0.21	0	0	0.34	0	0	0	0	1.32	0.81	0.04	33.19	0.28	-		
GA	272.2	12.89	24.55	46.65	40.24	124.33	38.09	39.21	29.55	20.21	127.06	13.74	5.11	1.91	20.76	3.15	3.66	6.54	391.64	465.04	125.77		
IL	175	17.68	40.83	30.62	28.26	117.44	26.21	18.75	8.26	2.94	56.16	1.36	0	0	1.36	2.22	2.74	13.82	260.72	153.88	15.80		
IA	102	7.7	22.91	37.5	21.24	89.35	8.36	1.67	1.85	0.49	12.37	0.24	0.06	0	0.3	1.12	1.72	2.47	100.07	21.28	0.74		
KY	93.1	9.91	21.95	19.24	19.63	70.73	11.45	6.06	3.47	1.18	22.16	0.13	0	0	0.13	3.10	10.33	5.33	219.26	223.91	0.69		
MO	3.77E+02	5.52E+01	7.15E+01	7.36E+01	5.36E+01	253.84	3.47E+01	2.83E+01	2.58E+01	1.63E+01	105.72	1.22E+01	3.99E+00	7.40E-01	16.96	4.64	5.38	9.29	1,177.82	563.77	157.56		
NE	456.6	167.07	80.87	107.72	49.64	405.3	24.69	10.77	7.27	4.24	46.97	2.75	1.02	0.59	4.36	3.19	5.82	4.97	1,292.91	273.37	21.67		
NV	167.5	108.64	21.2	17.69	9.5	157.03	3.95	3.63	1.23	0.76	9.57	0.52	0.4	0	0.92	2.25	3.80	0.29	353.32	38.37	0.27		
SC	14.2	2.97	0.71	2.82	2.46	8.96	1.87	1.87	0.73	0.51	4.98	0.18	0.05	0	0.23	3.15	3.66	6.54	23.22	15.22	1.50		
TN	182.9	11.05	22.24	35.76	30.56	99.61	28.12	22.78	15.75	8.04	74.69	5.44	2.41	0.79	8.64	1.23	2.81	1.55	122.92	208.86	13.39		
UT	379.2	117.87	69.94	66.59	35.46	292.86	23.83	17.47	14.45	10.59	66.34	10.4	8.11	1.52	20.03	2.90	3.05	9.04	849.29	202.34	181.07		
WY	400.5	207.08	105.56	52.54	12.14	377.32	6.48	6.02	4.33	4.26	21.09	1.86	0.22	0.06	2.14	6.74	7.41	5.56	2,543.14	156.28	11.80		
TOT	ALS					1996.77					547.11				75.83				3.69E-07	4.27E-07	7.17E-07	<<< These are the weighted average accident rates	
FRO	M: SURR	Y NP			VA																		
TO	: YUCC	A MOUNT	AIN		NV																		
AZ	29.2	16.21	10.81	1.58	0.33	28.93	0.13	0.21	0	0	0.34	0	0	0	0	1.32	0.81	0.04	33.19	0.28	-		
IL	140.7	24.41	37.51	25.21	18.3	105.43	17.81	9.81	4.74	2.02	34.33	0.9	0	0	0.9	2.22	2.74	13.82	234.05	94.20	12.44		
IN	122.9	9.87	35.59	30.97	26.95	103.38	10.96	4.85	2.43	0.71	18.95	0.46	0.06	0	0.52	2.25	1.38	0.43	232.81	26.15	0.22		
IA	102	7.7	22.91	37.5	21.24	89.35	8.36	1.67	1.85	0.49	12.37	0.24	0.06	0	0.3	1.12	1.72	2.47	100.07	21.28	0.74		
KY	190.3	5.94	24.71	46.05	46.04	122.74	28.41	18.99	8.94	5.47	61.81	2.8	2.3	0.71	5.81	3.10	10.33	5.33	380.49	635.50	30.97		
MO	376.5	55.23	71.47	73.59	53.55	253.84	34.74	28.83	25.83	16.32	105.72	12.23	3.99	0.74	16.96	4.64	5.38	9.29	1,177.82	563.77	157.56		
NE	456.6	167.07	80.87	107.72	49.64	405.3	24.69	10.77	7.27	4.24	46.97	2.75	1.02	0.59	4.36	3.19	5.82	4.97	1,292.91	273.37	21.67		

NV		167.5	108.64	21.2	17.69	9.5	157.03	3.95	3.63	1.23	0.76	9.57	0.52	0.4	0	0.92	2.25	3.80	0.29	353.32	36.37	0.27	
UT		379.2	117.87	69.94	66.59	38.46	292.86	23.83	17.47	14.45	10.59	66.34	10.4	8.11	1.52	20.03	2.90	3.05	9.04	849.29	202.34	181.07	
VA		2.81E+02	1.93E+01	5.75E+01	6.96E+01	5.03E+01	196.65	3.80E+01	2.48E+01	1.46E+01	4.81E+00	82.26	1.91E+00	1.80E-01	0.00E+00	2.09	2.90	3.05	9.04	570.37	250.59	15.59	
WV		183.9	12.4	31.03	27.94	27.01	98.38	21.02	23.06	19.53	13.41	77.02	6.08	2.24	0.29	8.61	2.65	1.75	1.23	260.71	134.79	10.59	
WY		400.5	207.08	105.56	52.54	12.14	377.32	6.48	6.02	4.33	4.26	21.09	1.86	0.22	0.06	2.14	6.74	7.41	5.56	2,543.14	156.28	11.80	
TOT	ALS						2202.31					536.48				62.64				3.65E-07	4.43E-07	7.13E-07	<<< These are the weighted average accident rates
FRO	M: ZION		NP			IL																	
TO	: YUCC		A MOUNT	AIN		NV																	
AZ		29.2	16.21	10.81	1.58	0.33	28.93	0.13	0.21	0	0	0.34	0	0	0	0	1.32	0.81	0.04	33.19	0.28	*	
IL		216.9	25.3	38.74	35.14	32.88	132.06	25.26	21.76	15.56	10.57	73.15	7.4	4.11	0.27	11.78	2.22	2.74	13.82	293.17	200.42	182.80	
IA		300.2	26.4	71.62	91.2	51.29	240.51	24.67	17.99	10.28	3.79	56.73	2.22	0.59	0.2	3.01	1.12	1.72	2.47	269.37	97.58	7.43	
NE		456.6	167.07	80.87	107.72	49.64	405.3	24.69	10.77	7.27	4.24	46.97	2.75	1.02	0.59	4.36	3.19	5.82	4.97	1,292.91	273.37	21.67	
NV		167.5	108.64	21.2	17.69	9.5	157.03	3.95	3.63	1.23	0.76	9.57	0.52	0.4	0	0.92	2.25	3.80	0.29	353.32	36.37	0.27	
UT		379.2	117.87	69.94	66.59	38.46	292.86	23.83	17.47	14.45	10.59	66.34	10.4	8.11	1.52	20.03	2.90	3.05	9.04	849.29	202.34	181.07	
WY		400.5	207.08	105.56	52.54	12.14	377.32	6.48	6.02	4.33	4.26	21.09	1.86	0.22	0.06	2.14	6.74	7.41	5.56	2,543.14	156.28	11.80	
TOT	ALS						1634.01					274.19				42.24				3.45E-07	3.53E-07	9.12E-07	<<< These are the weighted average accident rates

ROUTE-SPECIFIC ACCIDENT RATE CALCULATIONS:

State	Rural	Suburban	Urban
AZ	1.32	0.81	0.04
CA	1.6	0.45	1.79
CO	4.46	3.81	5.46
CT	9.04	3.47	31.93
GA	3.15	3.66	6.54
IA	1.12	1.72	2.47
ID	2.95	5.12	5.19
IL	2.22	2.74	13.82
IN	2.25	1.38	0.43
KY	3.1	10.33	5.33
MA	0.86	1.81	12.89
MO	4.64	5.38	9.29
NE	3.19	5.82	4.97
NJ	5.65	2.67	28.83
NM	1.13	1.02	1.03
NV	2.25	3.8	0.29
NY	3.15	3.66	6.54
OH	1.64	0.38	0.91
OR	3.15	3.66	6.54
PA	5.14	7.26	21.47
SC	3.15	3.66	6.54
TN	1.23	2.81	1.55
TX	6	6.96	7.36
UT	2.9	3.05	9.04
WA	2.65	1.75	1.23
WY	6.74	7.41	5.56

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State-Level Accident Rates of Surface Freight Transportation: A Reexamination

ARGONNE NATIONAL LABORATORY

TRANSPORTATION TECHNOLOGY R&D CENTER

Center for Transportation Research
Argonne National Laboratory

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ANL/ESD/TM-150

State-Level Accident Rates of Surface Freight Transportation: A Reexamination

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TABLE 4 Composite 1994-1996 Accident, Fatality, and Injury Rates for Interstate-Registered Heavy Combination Trucks[a]

	Composite Accident Rate (10^{-7} Accidents/trk-km)				Composite Fatality Rate (10^{-8} Fatalities/trk-km)				Composite Injury Rate (10^{-7} Injuries/trk-km)			
State/Parameter	Interstate	Primary	Other	Total	Interstate	Primary	Other	Total	Interstate	Primary	Other	Total
Alabama	2.82	5.22	2.88	3.77	0.86	4.15	1.17	2.19	1.48	3.17	1.41	2.13
Arizona	1.32	0.81	0.04	1.07	0.94	1.07	0.00	0.94	1.17	0.63	0.00	0.92
Arkansas	1.34	2.33	0.23	1.48	0.62	5.14	0.00	2.22	0.98	2.08	0.23	1.24
California	1.60	0.45	1.79	0.83	0.70	0.22	0.59	0.36	1.24	0.34	1.44	0.64
Colorado	4.46	3.81	5.46	4.34	1.14	2.05	2.83	1.75	3.15	2.65	3.72	3.03
Connecticut	*9.04*	3.47	*31.93*	*8.82*	1.45	1.70	*9.20*	1.91	*6.13*	2.64	*23.74*	*6.16*
Delaware	5.18	8.04	13.11	7.25	0.56	3.79	1.60	2.35	3.42	5.95	8.31	5.11
Florida	0.69	0.75	3.75	0.89	0.77	1.06	3.51	1.07	0.55	0.60	3.04	0.71
Georgia	*	*	*	6.69	*	*	*	1.95	*	*	*	4.59
Idaho	2.95	5.12	5.19	3.95	0.38	5.52	3.64	2.49	3.07	4.74	5.62	3.94
Illinois	2.22	2.74	13.82	2.96	0.83	1.27	4.08	1.10	1.50	1.30	4.97	1.64
Indiana	2.25	1.38	0.43	1.69	0.67	1.42	0.32	0.86	1.40	1.11	0.34	1.15
Iowa	1.12	1.72	2.47	1.48	0.94	2.14	0.86	1.34	0.86	1.34	1.80	1.13
Kansas	2.84	5.17	3.14	3.83	0.52	4.68	1.01	2.29	2.54	4.81	2.53	3.45
Kentucky	3.10	*10.33*	5.33	5.18	1.28	5.30	1.08	2.29	2.21	*7.30*	3.17	3.61
Louisiana	*	*	*	2.21	*	*	*	0.92	*	*	*	1.84
Maine	4.39	1.88	7.39	4.12	0.91	0.00	1.86	0.78	3.12	1.70	6.55	3.33
Maryland	5.40	8.16	*27.46*	7.41	0.65	4.43	*6.39*	1.99	4.59	*6.89*	*19.39*	*6.06*
Massachusetts	0.86	1.81	12.89	1.55	0.08	0.61	4.19	0.38	0.51	1.27	9.46	1.04
Michigan	2.83	0.95	6.17	2.15	1.07	0.64	3.14	1.07	2.61	1.03	6.68	2.20
Minnesota	1.71	1.90	1.31	1.76	0.30	2.16	0.15	1.20	0.84	1.51	1.13	1.21
Mississippi	0.48	0.87	0.39	0.63	0.25	0.54	0.06	0.34	0.39	0.88	0.25	0.57
Missouri	4.64	5.38	9.29	5.36	1.24	3.16	1.21	1.97	3.14	3.85	5.69	3.65
Montana	6.20	6.08	3.50	5.81	1.36	2.90	2.33	2.03	2.56	3.14	1.17	2.58
Nebraska	3.19	5.82	4.97	4.34	1.37	2.74	1.38	1.87	1.97	3.52	2.51	2.59
Nevada	2.25	3.80	0.29	2.45	0.66	1.67	0.33	0.89	1.48	2.52	0.26	1.62
New Hampshire	2.63	3.86	6.79	3.81	0.00	2.06	0.89	1.18	1.63	2.40	4.02	2.34
New Jersey	5.65	2.67	*28.83*	4.93	1.21	0.15	3.91	0.71	3.91	2.37	*21.49*	3.79
New Mexico	1.13	1.02	1.03	1.08	1.18	1.13	0.76	1.10	1.15	0.94	1.10	1.08
New York	*	*	*	3.45	*	*	*	1.24	*	*	*	1.85
North Carolina	3.46	3.14	3.69	3.34	1.49	1.78	1.38	1.62	3.17	3.22	2.99	3.16
North Dakota	3.02	4.87	1.37	3.42	1.02	1.76	0.00	1.11	1.89	3.61	1.62	2.53
Ohio	1.64	0.38	0.91	1.16	0.39	0.26	0.69	0.39	1.40	0.40	1.17	1.07
Oklahoma	2.68	3.16	2.31	2.76	1.33	2.12	0.77	1.47	2.89	3.18	2.31	2.85
Oregon	*	*	*	2.16	*	*	*	2.04	*	*	*	1.36
Pennsylvania	5.14	7.26	21.47	6.79	1.35	4.09	5.03	2.43	3.83	5.90	*17.83*	5.33
Rhode Island	*	*	*	*	*	*	*	*	*	*	*	*
South Carolina	*	*	*	4.69	*	*	*	2.60	*	*	*	3.30
South Dakota	2.33	2.49	1.54	2.29	0.61	1.53	2.93	1.27	1.72	1.63	1.03	1.59
Tennessee	1.23	2.81	1.55	1.59	1.00	2.60	0.39	1.30	0.92	2.43	1.35	1.27
Texas	6.00	6.96	7.36	6.58	1.30	2.86	*8.32*	2.70	*5.47*	5.25	5.46	5.37
Utah	2.90	3.05	9.04	3.40	1.19	1.60	2.27	1.39	2.53	2.49	6.77	2.84
Vermont	1.88	5.27	1.43	2.98	0.00	2.81	0.00	0.97	1.52	3.80	0.80	2.20
Virginia	3.93	1.98	0.16	2.65	1.61	0.99	0.00	1.16	3.10	1.73	0.12	2.16
Washington	2.65	1.75	1.23	2.05	0.18	0.75	0.83	0.53	1.80	1.18	0.97	1.40
West Virginia	1.72	3.71	1.38	2.15	1.68	*6.80*	0.84	2.78	1.12	2.59	0.64	1.40
Wisconsin	4.49	3.96	15.68	5.51	0.91	3.21	2.51	2.22	3.33	3.13	10.95	4.10
Wyoming	6.74	7.41	5.56	6.78	1.08	2.42	0.00	1.24	3.23	3.34	2.84	3.23

TABLE 4 (Cont.)

State/Parameter	Composite Accident Rate (10^{-7} Accidents/trk-km)				Composite Fatality Rate (10^{-8} Fatalities/trk-km)				Composite Injury Rate (10^{-7} Injuries/trk-km)			
	Interstate	Primary	Other	Total	Interstate	Primary	Other	Total	Interstate	Primary	Other	Total
Total Rate	3.00	2.78	4.56	3.21	0.96	1.78	1.71	1.42	2.25	2.17	3.33	2.39
Mean Rate	3.15	3.66	6.54	3.52	0.88	2.32	1.96	1.49	2.27	2.73	4.69	2.56
Std. Deviation	1.87	2.41	8.02	2.06	0.45	1.64	2.19	0.68	1.32	1.75	5.91	1.48
5th Percentile	0.87	0.75	0.23	0.94	0.09	0.22	0.00	0.38	0.57	0.60	0.24	0.77
Median	2.83	3.15	3.59	3.34	0.92	2.06	1.13	1.30	1.93	2.51	2.52	2.20
95th Percentile	6.19	8.00	27.16	7.12	1.49	5.30	6.32	2.57	4.56	5.95	19.31	5.35

[a] Asterisk indicates missing data (no records for state or blank accident location field). Rhode Island had no qualifying accidents, so national mean rates should be used. Values in italics are equal to or greater than two standard deviations above the national mean rate for the column category.