

APPENDIX E

CRASH CALCULATIONS

US 31W SOUTHBOUND

Beginning Milepoint	Ending Milepoint	Fatal	Injury	PDO	Total	Length (Miles)	Average ADT	Number Lanes	Rural / Urban	Functional Class Rate	CRASHES				MV	HMVM	Rates per HMVM					Critical Rate	CCRF
											Fatal	Injury	PDO	Total			Fatal Rate	Injury Rate	PDO Rate	Total Rate			
16.2	16.3	0	1	2	3	0.1	12,600	2	Urban	0.36	0	1	2	3	22.9950	0.023	0.00	0.04	0.09	0.13	0.70	0.19	
16.3	16.4	0	0	2	2	0.1	12,600	2	Urban	0.36	0	0	2	2	22.9950	0.023	0.00	0.00	0.09	0.09	0.70	0.12	
16.4	16.5	0	0	1	1	0.1	12,600	2	Urban	0.36	0	0	1	1	22.9950	0.023	0.00	0.00	0.04	0.04	0.70	0.06	
16.5	16.6	0	1	10	11	0.1	12,600	2	Urban	0.36	0	1	10	11	22.9950	0.023	0.00	0.04	0.43	0.48	0.70	0.68	
16.6	16.7	0	0	2	2	0.1	12,600	2	Urban	0.36	0	0	2	2	22.9950	0.023	0.00	0.00	0.09	0.09	0.70	0.12	
16.7	16.8	0	0	6	6	0.1	12,600	2	Urban	0.36	0	0	6	6	22.9950	0.023	0.00	0.00	0.26	0.26	0.70	0.37	
16.8	16.9	0	3	12	15	0.1	12,600	2	Urban	0.36	0	3	12	15	22.9950	0.023	0.00	0.13	0.52	0.65	0.70	0.93	
16.9	17.0	0	3	8	11	0.1	12,600	2	Urban	0.36	0	3	8	11	22.9950	0.023	0.00	0.13	0.35	0.48	0.70	0.68	
17.0	17.1	0	5	51	56	0.1	12,600	2	Urban	0.36	0	5	51	56	22.9950	0.023	0.00	0.22	2.22	2.44	0.70	3.46	
17.1	17.2	0	1	27	28	0.1	12,600	2	Urban	0.36	0	1	27	28	22.9950	0.023	0.00	0.04	1.17	1.22	0.70	1.73	
17.2	17.3	0	0	2	2	0.1	8,500	2	Urban	0.36	0	0	2	2	15.5125	0.016	0.00	0.00	0.13	0.13	0.78	0.16	
17.3	17.4	1	2	0	3	0.1	8,500	2	Urban	0.36	1	2	0	3	15.5125	0.016	0.06	0.13	0.00	0.19	0.78	0.25	
17.4	17.5	0	5	1	6	0.1	8,500	2	Urban	0.36	0	5	1	6	15.5125	0.016	0.00	0.32	0.06	0.39	0.78	0.49	
17.5	17.6	0	1	5	6	0.1	13,300	2	Urban	0.36	0	1	5	6	24.2725	0.024	0.00	0.04	0.21	0.25	0.69	0.36	
17.6	17.7	0	3	2	5	0.1	13,300	2	Urban	0.36	0	3	2	5	24.2725	0.024	0.00	0.12	0.08	0.21	0.69	0.30	
17.7	17.8	0	0	0	0	0.1	13,300	2	Urban	0.36	0	0	0	0	24.2725	0.024	0.00	0.00	0.00	0.00	0.69	0.00	
17.8	17.9	0	1	3	4	0.1	13,300	2	Urban	0.36	0	1	3	4	24.2725	0.024	0.00	0.04	0.12	0.16	0.69	0.24	
17.9	18.0	0	0	0	0	0.1	13,300	2	Urban	0.36	0	0	0	0	24.2725	0.024	0.00	0.00	0.00	0.00	0.69	0.00	
18.0	18.1	0	3	10	13	0.1	13,300	2	Urban	0.36	0	3	10	13	24.2725	0.024	0.00	0.12	0.41	0.54	0.69	0.77	
18.1	18.2	0	1	1	2	0.1	13,300	2	Urban	0.36	0	1	1	2	24.2725	0.024	0.00	0.04	0.04	0.08	0.69	0.12	
18.2	18.3	0	0	2	2	0.1	13,300	2	Urban	0.36	0	0	2	2	24.2725	0.024	0.00	0.00	0.08	0.08	0.69	0.12	
18.3	18.4	0	0	0	0	0.1	13,300	2	Urban	0.36	0	0	0	0	24.2725	0.024	0.00	0.00	0.00	0.00	0.69	0.00	

US 31W NORTHBOUND

Beginning Milepoint	Ending Milepoint	Fatal	Injury	PDO	Total	Length (Miles)	Average ADT	Number Lanes	Rural / Urban	Functional Class Rate	CRASHES				MV	HMVM	Rates per HMVM				Critical Rate	CCRF
											Fatal	Injury	PDO	Total			Fatal Rate	Injury Rate	PDO Rate	Total Rate		
16.2	16.3	0	0	1	1	0.1	15,675	2	Urban	0.36	0	0	1	1	28.6069	0.0286	0.00	0.00	0.03	0.03	0.67	0.05
16.3	16.4	0	0	0	0	0.1	15,675	2	Urban	0.36	0	0	0	0	28.6069	0.0286	0.00	0.00	0.00	0.00	0.67	0.00
16.4	16.5	0	0	2	2	0.1	15,675	2	Urban	0.36	0	0	0	2	28.6069	0.0286	0.00	0.00	0.07	0.07	0.67	0.10
16.5	16.6	0	4	8	12	0.1	15,675	2	Urban	0.36	0	4	8	12	28.6069	0.0286	0.00	0.14	0.28	0.42	0.67	0.63
16.6	16.7	0	0	1	1	0.1	15,675	2	Urban	0.36	0	0	1	1	28.6069	0.0286	0.00	0.00	0.03	0.03	0.67	0.05
16.7	16.8	0	4	6	10	0.1	15,675	2	Urban	0.36	0	4	6	10	28.6069	0.0286	0.00	0.14	0.21	0.35	0.67	0.52
16.8	16.9	0	4	12	16	0.1	15,675	2	Urban	0.36	0	4	12	16	28.6069	0.0286	0.00	0.14	0.42	0.56	0.67	0.84
16.9	17.0	0	0	11	11	0.1	15,675	2	Urban	0.36	0	0	11	11	28.6069	0.0286	0.00	0.00	0.38	0.38	0.67	0.58
17.0	17.1	0	10	28	38	0.1	15,675	2	Urban	0.36	0	10	28	38	28.6069	0.0286	0.00	0.35	0.98	1.33	0.67	1.99
17.1	17.2	0	0	3	3	0.1	15,675	2	Urban	0.36	0	0	3	3	28.6069	0.0286	0.00	0.00	0.10	0.10	0.67	0.16
17.2	17.3	0	0	1	1	0.1	15,675	2	Urban	0.36	0	0	1	1	28.6069	0.0286	0.00	0.00	0.03	0.03	0.67	0.05
17.3	17.4	0	2	5	7	0.1	15,875	2	Urban	0.36	0	2	5	7	28.9719	0.0290	0.00	0.07	0.17	0.24	0.66	0.36
17.4	17.5	0	1	6	7	0.1	15,875	2	Urban	0.36	0	1	6	7	28.9719	0.0290	0.00	0.03	0.21	0.24	0.66	0.36
17.5	17.6	0	2	7	9	0.1	15,875	2	Urban	0.36	0	2	7	9	28.9719	0.0290	0.00	0.07	0.24	0.31	0.66	0.47
17.6	17.7	0	0	4	4	0.1	15,875	2	Urban	0.36	0	0	4	4	28.9719	0.0290	0.00	0.00	0.14	0.14	0.66	0.21
17.7	17.8	0	7	11	18	0.1	15,875	2	Urban	0.36	0	7	11	18	28.9719	0.0290	0.00	0.24	0.38	0.62	0.66	0.94
17.8	17.9	0	1	1	2	0.1	15,875	2	Urban	0.36	0	1	1	2	28.9719	0.0290	0.00	0.03	0.03	0.07	0.66	0.10
17.9	18.0	0	0	1	1	0.1	15,875	2	Urban	0.36	0	0	1	1	28.9719	0.0290	0.00	0.00	0.03	0.03	0.66	0.05
18.0	18.1	0	4	6	10	0.1	15,875	2	Urban	0.36	0	4	6	10	28.9719	0.0290	0.00	0.14	0.21	0.35	0.66	0.52
18.1	18.2	0	0	5	5	0.1	15,875	2	Urban	0.36	0	0	5	5	28.9719	0.0290	0.00	0.00	0.17	0.17	0.66	0.26
18.2	18.3	0	0	0	0	0.1	15,875	2	Urban	0.36	0	0	0	0	28.9719	0.0290	0.00	0.00	0.00	0.00	0.66	0.00
18.3	18.4	0	2	1	3	0.1	15,875	2	Urban	0.36	0	2	1	3	28.9719	0.029	0.00	0.07	0.03	0.10	0.66	0.16

KY 446 WESTBOUND

Beginning Milepoint	Ending Milepoint	Fatal	Injury	PDO	Total	Length (Miles)	Average ADT	Number Lanes	Rural / Urban	Functional Class Rate	CRASHES				MV	HMVM	Rates per HMVM				Critical Rate	CCRF
											Fatal	Injury	PDO	Total			Fatal Rate	Injury Rate	PDO Rate	Total Rate		
0.0	0.1	0	0	0	0	0.1	9,200	2	Urban	0.36	0	0	0	0	16.7900	0.0168	0.00	0.00	0.00	0.00	0.77	0.00
0.1	0.2	0	0	0	0	0.1	9,200	2	Urban	0.36	0	0	0	0	16.7900	0.0168	0.00	0.00	0.00	0.00	0.77	0.00
0.2	0.3	0	0	1	1	0.1	9,200	2	Urban	0.36	0	0	1	1	16.7900	0.0168	0.00	0.00	0.06	0.06	0.77	0.08
0.3	0.4	0	3	1	4	0.1	9,200	2	Urban	0.36	0	3	1	4	16.7900	0.0168	0.00	0.18	0.06	0.24	0.77	0.31
0.4	0.5	0	0	0	0	0.1	9,200	2	Urban	0.36	0	0	0	0	16.7900	0.0168	0.00	0.00	0.00	0.00	0.77	0.00
0.5	0.6	0	0	1	1	0.1	9,200	2	Urban	0.36	0	0	1	1	16.7900	0.0168	0.00	0.00	0.06	0.06	0.77	0.08
0.6	0.7	0	2	16	18	0.1	9,200	2	Urban	0.36	0	2	16	18	16.7900	0.0168	0.00	0.12	0.95	1.07	0.77	1.40
0.7	0.8	0	1	1	2	0.1	9,200	2	Urban	0.36	0	1	1	2	16.7900	0.0168	0.00	0.06	0.06	0.12	0.77	0.16

KY 446 EASTBOUND

Beginning Milepoint	Ending Milepoint	Fatal	Injury	PDO	Total	Length (Miles)	Average ADT	Number Lanes	Rural / Urban	Functional Class Rate	CRASHES				MV	HMVM	Rates per HMVM				Critical Rate	CCRF
											Fatal	Injury	PDO	Total			Fatal Rate	Injury Rate	PDO Rate	Total Rate		
0.0	0.1	0	1	1	2	0.1	9,700	2	Urban	0.36	0	1	1	2	17.7025	0.0177	0.00	0.06	0.06	0.11	0.76	0.15
0.1	0.2	0	0	0	0	0.1	9,700	2	Urban	0.36	0	0	0	0	17.7025	0.0177	0.00	0.00	0.00	0.00	0.76	0.00
0.2	0.3	0	0	0	0	0.1	9,700	2	Urban	0.36	0	0	0	0	17.7025	0.0177	0.00	0.00	0.00	0.00	0.76	0.00
0.3	0.4	0	0	0	0	0.1	9,700	2	Urban	0.36	0	0	0	0	17.7025	0.0177	0.00	0.00	0.00	0.00	0.76	0.00
0.4	0.5	0	1	2	3	0.1	9,700	2	Urban	0.36	0	1	2	3	17.7025	0.0177	0.00	0.06	0.11	0.17	0.76	0.22
0.5	0.6	0	1	0	1	0.1	9,700	2	Urban	0.36	0	1	0	1	17.7025	0.0177	0.00	0.06	0.00	0.06	0.76	0.07
0.6	0.7	0	2	13	15	0.1	9,700	2	Urban	0.36	0	2	13	15	17.7025	0.0177	0.00	0.11	0.73	0.85	0.76	1.12
0.7	0.8	0	0	0	0	0.1	9,700	2	Urban	0.36	0	0	0	0	17.7025	0.0177	0.00	0.00	0.00	0.00	0.76	0.00

KY 957

Beginning Milepoint	Ending Milepoint	Fatal	Injury	PDO	Total	Length (Miles)	Average ADT	Number Lanes	Rural / Urban	Functional Class Rate	CRASHES				MV	HMVM	Rates per HMVM				Critical Rate	CCRF
											Fatal	Injury	PDO	Total			Fatal Rate	Injury Rate	PDO Rate	Total Rate		
0.0	0.1	0	0	5	5	0.1	2,900	2	Urban	0.36	0	0	5	5	5.2925	0.0053	0.00	0.00	0.94	0.94	1.13	0.84
0.1	0.2	0	1	10	11	0.1	2,900	2	Urban	0.36	0	1	10	11	5.2925	0.0053	0.00	0.19	1.89	2.08	1.13	1.85
0.2	0.3	0	0	3	3	0.1	2,900	2	Urban	0.36	0	0	3	3	5.2925	0.0053	0.00	0.00	0.57	0.57	1.13	0.50

KY 1402

Beginning Milepoint	Ending Milepoint	Fatal	Injury	PDO	Total	Length (Miles)	Average ADT	Number Lanes	Rural / Urban	Functional Class Rate	CRASHES				MV	HMVM	Rates per HMVM				Critical Rate	CCRF
											Fatal	Injury	PDO	Total			Fatal Rate	Injury Rate	PDO Rate	Total Rate		
0.0	0.1	0	5	25	30	0.1	3,665	2	Urban	0.36	0	5	25	30	6.6886	0.0067	0.00	0.75	3.74	4.49	1.03	4.34

US 31W SOUTHBOUND TO EASTBOUND KY 446

LOCATION	DATA SOURCE	MANNER OF COLLISION	2009	2010	2011	2012	2013	INJURED	INJURY CRASH	FATAL CRASH	UNITS INVOLVED	DRY	WET	NIGHT	ALCOHOL	DISTRACTED	DROWSY	DRUGS
US 31W	TED	ANGLE	2	3			1	7	5	0	2	4	2	1	NONE	5	NONE	NONE
US 31W	TED	HO		1				2	1	0	2	1	0	0	NONE	1	NONE	NONE
US 31W	TED	OLT	1					0	1	0	2	1	0	1	NONE	NO	NONE	NONE
US 31W	TED	RE		1				0	1	0	2	1	0	1	NONE	NO	NONE	NONE
KY 446	KSP	ANGLE			1			2	1	0	2	0	1	0	n/a	n/a	n/a	n/a
KY 446	KSP	FIXED OBJECT	1					0	0	0	1	0	1	0	n/a	n/a	n/a	n/a