

Appendix B: Crash Records

SEVERITY	MILEPOINT DERIVED	RDWY	MANNERCOLL	CTIME	CYEAR	CMONTH	CDAY	RDWY CHAR	RDWY COND	UNITS INVOLVED	WEATHER	U1_DIR	U2_DIR	AGGO_HF_IND	ALCOHOL_HF_IND	DISTRACT	DROWSY_HF_IND	DRUG_HF_IND	SPEED_HF_IND	PEDESTRIAN_IND	BICYCLE_IND	DEER_IND	NIGHT_IND
P	12.366	US0042	ANGLE	746	2017	9	22	STRAIGHT & LEVEL	DRY	2	CLEAR	S	E	Y	N	N	N	N	N	N	N	N	N
P	12.375	US0042	ANGLE	640	2018	7	16	STRAIGHT & HILLCREST	DRY	2	CLEAR	E	E	Y	N	N	N	N	N	N	N	N	N
B	12.376	US0042	ANGLE	722	2014	10	17	STRAIGHT & GRADE	DRY	2	CLEAR	W	E	Y	N	Y	N	N	N	N	N	N	N
P	12.378	US0042	REAR END	1230	2015	12	28	STRAIGHT & LEVEL	WET	2	RAINING	E	E	N	N	N	N	N	N	N	N	N	N
P	12.381	US0042	SIDESWIPE-SAME DIRECTION	1652	2016	9	17	STRAIGHT & GRADE	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.385	US0042	REAR END	216	2018	10	28	STRAIGHT & LEVEL	DRY	2	CLOUDY	E	E	Y	Y	N	N	N	N	N	N	N	Y
P	12.385	US0042	REAR END	732	2018	11	28	STRAIGHT & GRADE	OTHER	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.395	US0042	ANGLE	1917	2017	2	2	STRAIGHT & GRADE	DRY	2	CLEAR	E	W	Y	N	Y	N	N	N	N	N	N	Y
P	12.397	US0042	ANGLE	2130	2017	9	1	STRAIGHT & LEVEL	WET	2	RAINING	E	W	N	N	Y	N	N	N	N	N	N	N
P	12.399	US0042	REAR END	1418	2014	7	22	STRAIGHT & GRADE	DRY	2	CLEAR	E	E	Y	N	N	N	N	N	N	N	N	N
P	12.404	US0042	REAR END	718	2016	1	20	STRAIGHT & LEVEL	SNOW/SL	2	SNOWING	W	W	N	N	N	N	N	N	N	N	N	Y
P	12.407	US0042	SINGLE VEHICLE	2351	2014	10	4	STRAIGHT & HILLCREST	DRY	1	CLEAR	W		N	N	N	N	N	N	N	N	Y	Y
P	12.424	US0042	REAR END	1245	2017	9	16	STRAIGHT & LEVEL	DRY	2	CLOUDY	E	E	Y	N	Y	N	N	N	N	N	N	N
P	12.425	US0042	REAR END	1806	2016	12	6	STRAIGHT & GRADE	DRY	2	CLOUDY	W	W	N	N	Y	N	N	N	N	N	N	Y
P	12.428	US0042	SINGLE VEHICLE	2248	2015	3	13	STRAIGHT & GRADE	WET	1	RAINING	W		N	N	Y	N	N	N	N	N	N	Y
P	12.431	US0042	ANGLE	2011	2014	9	27	STRAIGHT & GRADE	DRY	2	CLEAR	N	W	Y	Y	Y	N	N	N	N	N	N	Y
P	12.432	US0042	ANGLE	918	2015	2	10	STRAIGHT & GRADE	DRY	2	CLOUDY	W	S	N	N	N	N	N	N	N	N	N	N
P	12.433	US0042	SINGLE VEHICLE	2010	2018	4	21	STRAIGHT & LEVEL	DRY	1	CLEAR	W		N	N	N	N	N	N	N	N	N	Y
P	12.436	US0042	REAR END	920	2014	12	29	STRAIGHT & GRADE	DRY	2	CLEAR	E	E	N	N	N	N	N	N	N	N	N	N
P	12.441	US0042	REAR END	1735	2018	2	23	STRAIGHT & LEVEL	WET	2	CLOUDY	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.447	US0042	REAR END	1857	2015	10	8	STRAIGHT & GRADE	DRY	2	CLEAR	E	E	Y	N	Y	N	N	N	N	N	N	N
P	12.457	US0042	SINGLE VEHICLE	700	2014	10	22	STRAIGHT & GRADE	DRY	1	CLOUDY	E		N	N	Y	N	N	N	N	N	N	Y
P	12.459	US0042	SIDESWIPE-SAME DIRECTION	1250	2016	2	13	STRAIGHT & LEVEL	DRY	2	CLEAR	W	S	N	N	N	N	N	Y	N	N	N	N
C	12.465	US0042	REAR END	2248	2015	4	26	STRAIGHT & LEVEL	DRY	2	CLOUDY	W	W	Y	N	Y	N	N	N	N	N	N	Y
P	12.471	US0042	SINGLE VEHICLE	419	2016	8	11	STRAIGHT & GRADE	DRY	1	CLEAR	E		N	N	N	N	N	N	N	N	N	Y
P	12.479	US0042	REAR END	730	2015	3	2	STRAIGHT & LEVEL	DRY	2	CLOUDY	E	E	N	N	N	Y	N	N	N	N	N	N
P	12.479	US0042	SIDESWIPE-SAME DIRECTION	1235	2017	12	6	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.481	US0042	ANGLE	2351	2017	8	16	STRAIGHT & LEVEL	DRY	2	CLEAR	S	E	Y	N	Y	N	N	N	N	N	N	Y
P	12.485	US0042	REAR END	549	2018	10	22	STRAIGHT & GRADE	DRY	3	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	Y
P	12.486	US0042	REAR END	2300	2015	5	15	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.489	US0042	REAR END	1621	2014	6	28	CURVE & HILLCREST	DRY	2	CLOUDY	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.489	US0042	REAR END	30	2014	6	19	STRAIGHT & GRADE	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	Y
P	12.489	US0042	ANGLE	1927	2015	12	15	STRAIGHT & LEVEL	DRY	2	CLOUDY	W	W	Y	N	Y	N	N	N	N	N	N	Y
P	12.489	US0042	REAR END	2037	2015	4	6	CURVE & LEVEL	DRY	2	CLOUDY	E	E	N	N	Y	N	N	N	N	N	N	Y
P	12.489	US0042	REAR END	1152	2014	11	24	STRAIGHT & LEVEL	WET	2	CLOUDY	W	W	N	N	Y	N	N	N	N	N	N	N
B	12.489	US0042	ANGLE	948	2016	8	10	STRAIGHT & LEVEL	WET	2	CLOUDY	E	S	Y	N	N	N	N	N	N	N	N	N
P	12.490	US0042	REAR END	934	2016	2	18	STRAIGHT & LEVEL	DRY	4	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.490	US0042	REAR END	1244	2016	8	8	STRAIGHT & GRADE	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.492	US0042	REAR END	1317	2017	3	31	STRAIGHT & LEVEL	WET	2	RAINING	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.493	US0042	REAR END	1359	2014	10	28	STRAIGHT & GRADE	WET	2	RAINING	W	W	N	N	Y	N	N	Y	N	N	N	N
P	12.496	US0042	REAR END	1454	2018	6	8	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.497	US0042	REAR END	859	2014	4	15	STRAIGHT & GRADE	WET	2	CLOUDY	E	E	Y	N	Y	N	N	N	N	N	N	N
P	12.498	US0042	REAR END	1352	2017	6	13	STRAIGHT & HILLCREST	WET	2	CLOUDY	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.499	US0042	REAR END	2245	2017	8	19	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	Y
P	12.499	US0042	ANGLE	2043	2017	4	30	STRAIGHT & LEVEL	WET	2	RAINING	E	S	Y	N	N	N	N	N	N	N	N	Y
P	12.499	US0042	ANGLE	1630	2017	11	22	STRAIGHT & GRADE	DRY	2	CLEAR	S	W	Y	N	N	N	N	N	N	N	N	N
P	12.499	US0042	REAR END	727	2016	11	30	STRAIGHT & LEVEL	DRY	2	CLOUDY	E	E	Y	N	Y	N	N	N	N	N	N	N
A	12.499	US0042	ANGLE	1006	2015	4	29	STRAIGHT & GRADE	DRY	2	CLEAR	W	S	Y	N	N	N	N	N	N	N	N	N
P	12.499	US0042	REAR END	2135	2014	8	16	STRAIGHT & GRADE	DRY	2	CLOUDY	E	E	N	N	Y	N	N	N	N	N	N	Y
P	12.499	US0042	ANGLE	1646	2017	6	28	STRAIGHT & GRADE	DRY	2	CLEAR	S	W	Y	N	Y	N	N	N	N	N	N	N
P	12.500	US0042	REAR END	1732	2016	9	12	STRAIGHT & GRADE	DRY	2	CLEAR	E	E	N	N	N	N	N	N	N	N	N	N
P	12.501	US0042	ANGLE	1516	2016	9	7	STRAIGHT & GRADE	DRY	2	CLEAR	E	S	Y	N	Y	N	N	N	N	N	N	N
P	12.503	US0042	ANGLE	731	2015	9	22	STRAIGHT & GRADE	DRY	2	CLEAR	W	S	Y	N	Y	N	N	N	N	N	N	N

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SEVERITY	MILEPOINT DERIVED	RDWY	MANNERCOLL	CTIME	CYEAR	CMONTH	CDAY	RDWY CHAR	RDWY COND	UNITS INVOLVED	WEATHER	U1_DIR	U2_DIR	AGGO_HF_IND	ALCOHOL_HF_IND	DISTRACT	DROWSY_HF_IND	DRUG_HF_IND	SPEED_HF_IND	PEDESTRIAN_IND	BICYCLE_IND	DEER_IND	NIGHT_IND
P	12.503	US0042	REAR END	1451	2014	10	9	STRAIGHT & LEVEL	DRY	2	CLOUDY	E	E	N	N	N	N	N	N	N	N	N	N
P	12.504	US0042	REAR END	1644	2014	5	1	STRAIGHT & GRADE	DRY	2	CLOUDY	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.507	US0042	REAR END	1505	2015	12	21	STRAIGHT & GRADE	WET	2	RAINING	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.507	US0042	REAR END	1322	2017	9	19	STRAIGHT & GRADE	WET	2	RAINING	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.508	US0042	REAR END	1053	2017	7	28	STRAIGHT & GRADE	WET	2	CLOUDY	W	W	Y	N	Y	N	N	N	N	N	N	N
P	12.508	US0042	ANGLE	1447	2014	8	25	STRAIGHT & LEVEL	DRY	2	CLEAR	E	S	N	N	Y	N	N	N	N	N	N	N
P	12.508	US0042	ANGLE	2021	2016	10	3	STRAIGHT & GRADE	DRY	2	CLEAR	W	S	Y	N	Y	N	N	N	N	N	N	Y
P	12.508	US0042	REAR END	2030	2014	9	18	CURVE & GRADE	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	Y
P	12.509	US0042	SIDESWIPE-SAME DIRECTION	1703	2016	3	3	STRAIGHT & LEVEL	WET	3	SNOWING	N	N	N	N	N	N	N	N	N	N	N	N
B	12.509	US0042	REAR END	1543	2016	9	13	STRAIGHT & GRADE	DRY	3	CLEAR	W	W	Y	N	Y	N	N	N	N	N	N	N
P	12.509	US0042	ANGLE	1330	2017	7	6	STRAIGHT & GRADE	WET	2	CLEAR	W	N	Y	N	Y	N	N	N	N	N	N	N
P	12.511	US0042	ANGLE	1557	2017	10	31	STRAIGHT & LEVEL	DRY	2	CLEAR	W	S	Y	N	N	N	N	N	N	N	N	N
P	12.512	US0042	REAR END	2036	2018	9	7	STRAIGHT & LEVEL	WET	2	CLOUDY	W	W	N	N	N	N	N	N	N	N	N	Y
P	12.514	US0042	REAR END	1246	2018	12	4	STRAIGHT & LEVEL	WET	2	SNOWING	W	W	Y	N	N	N	N	N	N	N	N	N
P	12.515	US0042	REAR END	1359	2018	8	10	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	Y	N	N	N	N	N	N	N	N	N
P	12.516	US0042	REAR END	1120	2015	2	22	STRAIGHT & GRADE	WET	2	CLOUDY	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.517	US0042	BACKING	1205	2017	12	6		DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.518	US0042	ANGLE	1755	2017	11	27	STRAIGHT & GRADE	DRY	2	CLEAR	W	S	Y	N	N	N	N	N	N	N	N	Y
P	12.519	US0042	ANGLE	1104	2017	9	21	STRAIGHT & GRADE	DRY	2	CLEAR	N	E	Y	N	Y	N	N	N	N	N	N	N
P	12.520	US0042	BACKING	2245	2017	11	4	STRAIGHT & LEVEL	DRY	2	CLEAR	E	W	N	N	Y	N	N	N	N	N	N	Y
P	12.520	US0042	ANGLE	1611	2018	9	24	STRAIGHT & LEVEL	WET	2	RAINING	W	E	N	N	N	N	N	N	N	N	N	N
P	12.520	US0042	REAR END	1214	2016	11	5	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.521	US0042	OPPOSING LEFT TURN	2116	2018	2	4	STRAIGHT & HILLCREST	SNOW/SL	2	SNOWING	W	N	N	N	N	N	N	N	N	N	N	Y
P	12.521	US0042	REAR END	1537	2018	9	9	STRAIGHT & GRADE	WET	2	RAINING	W	W	N	N	Y	N	N	N	N	N	N	N
B	12.522	US0042	REAR END	1404	2017	3	1	STRAIGHT & LEVEL	DRY	3	CLOUDY	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.522	US0042	REAR END	2031	2017	1	16	STRAIGHT & GRADE	WET	2	RAINING	W	W	N	N	Y	N	N	N	N	N	N	Y
P	12.523	US0042	SINGLE VEHICLE	650	2014	12	31	STRAIGHT & GRADE	DRY	1	CLEAR	S		N	N	N	N	N	N	N	N	N	Y
P	12.523	US0042	REAR END	1744	2018	12	15	STRAIGHT & LEVEL	WET	2	RAINING	W	W	N	N	N	N	N	N	N	N	N	Y
P	12.525	US0042	REAR END	1314	2014	12	21	STRAIGHT & GRADE	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.525	US0042	OPPOSING LEFT TURN	1424	2018	5	16	STRAIGHT & LEVEL	WET	2	CLOUDY	W	W	N	N	Y	N	N	N	N	N	N	N
C	12.526	US0042	REAR END	843	2016	1	22	STRAIGHT & GRADE	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.529	US0042	REAR END	1137	2018	5	23	STRAIGHT & GRADE	DRY	2	CLEAR	W	W	Y	N	Y	N	N	N	N	N	N	N
P	12.530	US0042	REAR END	2236	2018	8	11	STRAIGHT & HILLCREST	DRY	3	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	Y
P	12.530	US0042	SINGLE VEHICLE	300	2014	12	5	STRAIGHT & GRADE	WET	1	RAINING	E		N	Y	N	N	N	N	N	N	N	Y
P	12.535	US0042	REAR END	1123	2017	12	22	STRAIGHT & LEVEL	WET	3	CLOUDY	W	W	Y	N	N	N	N	N	N	N	N	N
C	12.535	US0042	REAR END	724	2017	5	17	STRAIGHT & GRADE	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.538	US0042	REAR END	7	2017	3	11	STRAIGHT & GRADE	DRY	2	CLEAR	W	W	Y	Y	N	N	N	N	N	N	N	Y
P	12.538	US0042	ANGLE	1208	2014	9	25	STRAIGHT & GRADE	DRY	2	CLEAR	W	W	N	N	N	N	N	N	N	N	N	N
P	12.543	US0042	REAR END	1943	2017	4	2	STRAIGHT & GRADE	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.546	US0042	SIDESWIPE-SAME DIRECTION	833	2018	8	15	STRAIGHT & GRADE	DRY	3	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.547	US0042	REAR END	1307	2018	9	17	STRAIGHT & GRADE	WET	2	RAINING	W	W	N	N	N	N	N	N	N	N	N	N
P	12.566	US0042	SIDESWIPE-SAME DIRECTION	1446	2018	6	7	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.569	US0042	REAR END	1910	2018	9	30	STRAIGHT & GRADE	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.570	US0042	REAR END	1518	2017	12	3	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.571	US0042	REAR END	719	2018	4	16	STRAIGHT & GRADE	WET	2	RAINING	W	W	Y	N	Y	N	N	N	N	N	N	N
P	12.571	US0042	REAR END	1918	2015	12	14	STRAIGHT & GRADE	DRY	2	CLOUDY	W	W	N	N	N	N	N	N	N	N	N	Y
C	12.575	US0042	REAR END	1412	2015	3	15	STRAIGHT & HILLCREST	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.576	US0042	REAR END	1615	2016	9	7	STRAIGHT & GRADE	DRY	2	CLEAR	W	W	Y	N	Y	N	N	N	N	N	N	N
B	12.583	US0042	REAR END	1526	2014	9	15	STRAIGHT & GRADE	DRY	3	CLOUDY	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.583	US0042	REAR END	1252	2016	7	15	STRAIGHT & HILLCREST	DRY	3	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.584	US0042	REAR END	1729	2016	9	14	STRAIGHT & HILLCREST	WET	2	CLOUDY	W	W	Y	N	N	N	N	N	N	N	N	N
P	12.587	US0042	REAR END	1914	2018	5	5	STRAIGHT & LEVEL	WET	2	RAINING	S	S	N	N	N	N	N	N	N	N	N	N
P	12.600	US0042	REAR END	739	2018	8	1	STRAIGHT & GRADE	DRY	2	CLOUDY	E	E	N	N	Y	N	N	N	N	N	N	N

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SEVERITY	MILEPOINT DERIVED	RDWY	MANNERCOLL	CTIME	CYEAR	CMONTH	CDAY	RDWY CHAR	RDWY COND	UNITS INVOLVED	WEATHER	U1_DIR	U2_DIR	AGGO_HF_IND	ALCOHOL_HF_IND	DISTRACT	DROWSY_HF_IND	DRUG_HF_IND	SPEED_HF_IND	PEDESTRIAN_IND	BICYCLE_IND	DEER_IND	NIGHT_IND
P	12.601	US0042	REAR END	841	2017	9	12	STRAIGHT & GRADE	WET	3	CLOUDY	E	E	Y	N	Y	N	N	N	N	N	N	N
P	12.605	US0042	REAR END	1746	2015	1	2	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	Y	N	Y	N	N	N	N	N	N	N
P	12.606	US0042	REAR END	1720	2014	3	1	STRAIGHT & GRADE	DRY	2	CLOUDY	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.613	US0042	REAR END	1442	2014	6	16	CURVE & HILLCREST	DRY	3	CLOUDY	W	W	N	N	Y	N	N	N	N	N	N	N
C	12.615	US0042	REAR END	824	2018	9	18	STRAIGHT & GRADE	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
C	12.623	US0042	REAR END	1833	2014	10	2	STRAIGHT & HILLCREST	DRY	3	CLEAR	W	W	Y	N	Y	N	N	N	N	N	N	N
P	12.625	US0042	ANGLE	855	2016	4	4	STRAIGHT & LEVEL	DRY	2	CLOUDY	S	W	N	N	Y	N	N	N	N	N	N	N
P	12.633	US0042	REAR END	1739	2014	3	1	STRAIGHT & GRADE	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.634	US0042	REAR END	1514	2016	10	2	STRAIGHT & GRADE	DRY	3	CLOUDY	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.637	US0042	REAR END	1755	2017	11	6	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.639	US0042	REAR END	1156	2016	6	3	STRAIGHT & GRADE	DRY	2	CLEAR	E	E	Y	N	Y	N	N	N	N	N	N	N
P	12.639	US0042	REAR END	2008	2014	9	19	STRAIGHT & GRADE	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	Y
P	12.641	US0042	REAR END	937	2018	9	17	STRAIGHT & GRADE	WET	2	RAINING	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.643	US0042	SIDESWIPE-SAME DIRECTION	1442	2014	6	16	STRAIGHT & GRADE	DRY	2	CLOUDY	W	W	N	N	N	N	N	N	N	N	N	N
P	12.644	US0042	REAR END	1604	2016	8	20	STRAIGHT & GRADE	WET	3	RAINING	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.645	US0042	REAR END	1352	2016	6	3	STRAIGHT & GRADE	DRY	3	CLEAR	E	E	Y	N	Y	N	N	N	N	N	N	N
P	12.650	US0042	REAR END	1659	2014	1	9	STRAIGHT & GRADE	DRY	2	CLEAR	S	S	Y	N	Y	N	N	N	N	N	N	N
P	12.653	US0042	REAR END	1651	2018	5	22	STRAIGHT & GRADE	DRY	2	CLEAR	W	W	N	N	N	N	N	N	N	N	N	N
C	12.655	US0042	REAR END	1733	2016	5	19	STRAIGHT & GRADE	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.660	US0042	REAR END	1736	2014	9	15	STRAIGHT & GRADE	WET	2	RAINING	W	W	Y	N	N	N	Y	N	N	N	N	N
P	12.662	US0042	REAR END	1715	2017	5	31	STRAIGHT & LEVEL	DRY	3	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.663	US0042	REAR END	1654	2016	8	31	STRAIGHT & GRADE	DRY	3	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
C	12.665	US0042	REAR END	930	2017	8	19	STRAIGHT & HILLCREST	DRY	5	CLOUDY	W	W	Y	N	Y	N	N	N	N	N	N	N
P	12.667	US0042	REAR END	1300	2015	8	8	STRAIGHT & HILLCREST	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.668	US0042	REAR END	1250	2017	4	28	STRAIGHT & GRADE	DRY	2	CLOUDY	E	E	Y	N	N	N	N	N	N	N	N	N
P	12.668	US0042	REAR END	1543	2015	9	24	STRAIGHT & GRADE	DRY	2	CLEAR	W	W	Y	N	Y	N	N	N	N	N	N	N
P	12.668	US0042	ANGLE	1341	2015	5	9	STRAIGHT & GRADE	DRY	2	CLEAR	N	W	Y	N	N	N	N	N	N	N	N	N
C	12.668	US0042	ANGLE	1952	2014	7	13	CURVE & HILLCREST	WET	2	RAINING	N	W	Y	N	Y	N	N	N	N	N	N	N
P	12.668	US0042	ANGLE	2344	2014	9	21	STRAIGHT & GRADE	DRY	2	CLEAR	W	S	N	N	N	N	N	N	N	N	N	N
P	12.668	US0042	REAR END	1803	2016	8	4	STRAIGHT & HILLCREST	DRY	2	CLEAR	E	E	N	N	N	N	N	N	N	N	N	N
P	12.668	US0042	REAR END	1837	2017	1	11	STRAIGHT & GRADE	WET	2	CLOUDY	W	W	Y	N	N	N	N	N	N	N	N	Y
P	12.668	US0042	REAR END	951	2014	8	2	STRAIGHT & GRADE	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.668	US0042	ANGLE	2125	2014	8	10	STRAIGHT & GRADE	WET	2	RAINING	S	N	Y	N	Y	N	N	N	N	N	N	Y
P	12.669	US0042	REAR END	1740	2016	8	17	STRAIGHT & GRADE	DRY	2	CLOUDY	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.669	US0042	REAR END	1314	2016	1	24	STRAIGHT & GRADE	DRY	2	CLOUDY	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.669	US0042	REAR END	1212	2015	8	5	STRAIGHT & HILLCREST	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.669	US0042	REAR END	1459	2016	4	5	STRAIGHT & GRADE	DRY	2	CLEAR	W	W	N	N	N	N	N	N	N	N	N	N
P	12.669	US0042	REAR END	1755	2014	10	31	STRAIGHT & LEVEL	WET	2	CLOUDY	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.669	US0042	REAR END	1810	2014	10	3	STRAIGHT & GRADE	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.669	US0042	REAR END	1459	2018	9	28	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.670	US0042	REAR END	1401	2016	8	20	STRAIGHT & GRADE	DRY	2	CLEAR	E	E	Y	N	Y	N	N	N	N	N	N	N
P	12.670	US0042	BACKING	1610	2018	6	7	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	N	N	N	N	N	N	N	N
P	12.670	US0042	REAR END	1743	2014	9	15	STRAIGHT & GRADE	WET	2	RAINING	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.670	US0042	REAR END	1657	2014	11	9	STRAIGHT & GRADE	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.670	US0042	OPPOSING LEFT TURN	2352	2018	7	7	STRAIGHT & GRADE	DRY	2	CLEAR	N	W	Y	N	Y	N	N	N	N	N	N	Y
P	12.671	US0042	REAR END	1448	2017	10	3	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.671	US0042	BACKING	1909	2018	10	9	STRAIGHT & GRADE	DRY	2	CLEAR	W	W	Y	N	N	N	N	N	N	N	N	Y
P	12.671	US0042	REAR END	1410	2017	2	18	STRAIGHT & GRADE	DRY	2	CLOUDY	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.672	US0042	REAR END	1115	2015	10	10	STRAIGHT & GRADE	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.672	US0042	REAR END	1501	2014	1	16	STRAIGHT & GRADE	SNOW/SLI	2	SNOWING	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.673	US0042	SIDESWIPE-SAME DIRECTION	2310	2016	3	26	STRAIGHT & GRADE	DRY	2	CLEAR	W	W	Y	N	Y	N	N	N	N	N	N	Y
P	12.674	US0042	REAR END	730	2016	4	26	STRAIGHT & GRADE	DRY	2	CLOUDY	E	E	Y	N	N	N	N	N	N	N	N	N
P	12.674	US0042	REAR END	1245	2016	5	29	STRAIGHT & GRADE	DRY	2	CLEAR	W	W	Y	N	Y	N	N	N	N	N	N	N

Appendix B: Crash Records

SEVERITY	MILEPOINT DERIVED	RDWY	MANNERCOLL	CTIME	CYEAR	CMONTH	CDAY	RDWY CHAR	RDWY COND	UNITS INVOLVED	WEATHER	U1_DIR	U2_DIR	AGGO_HF_IND	ALCOHOL_HF_IND	DISTRACT	DROWSY_HF_IND	DRUG_HF_IND	SPEED_HF_IND	PEDESTRIAN_IND	BICYCLE_IND	DEER_IND	NIGHT_IND
P	12.675	US0042	ANGLE	1503	2015	8	31	STRAIGHT & LEVEL	DRY	2	CLEAR	W	E	Y	N	N	N	N	N	N	N	N	N
P	12.676	US0042	REAR END	1534	2017	7	18	STRAIGHT & GRADE	DRY	3	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.678	US0042	SIDESWIPE-SAME DIRECTION	1413	2017	8	14	STRAIGHT & LEVEL	DRY	2	CLOUDY			N	N	N	N	N	N	N	N	N	N
P	12.683	US0042	REAR END	1714	2015	9	23	STRAIGHT & GRADE	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
C	12.683	US0042	ANGLE	1141	2015	10	27	STRAIGHT & GRADE	WET	2	RAINING	E	N	Y	N	Y	N	N	N	N	N	N	N
P	12.685	US0042	REAR END	1903	2015	12	4	STRAIGHT & GRADE	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	Y
P	12.686	US0042	REAR END	1240	2018	4	10	STRAIGHT & GRADE	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
C	12.686	US0042	ANGLE	1825	2014	10	22	STRAIGHT & GRADE	DRY	2	CLEAR	S	W	Y	N	Y	N	N	N	N	N	N	N
P	12.691	US0042	REAR END	1507	2016	4	5	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	Y	N	Y	N	N	N	N	N	N	N
P	12.696	US0042	REAR END	1841	2018	1	17	STRAIGHT & HILLCREST	DRY	2	CLEAR	E	E	Y	N	N	N	N	N	N	N	N	Y
P	12.701	US0042	REAR END	1513	2014	9	26	STRAIGHT & GRADE	DRY	3	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.702	US0042	REAR END	1015	2018	9	26	STRAIGHT & GRADE	WET	2	CLOUDY	W	W	N	N	N	N	N	N	N	N	N	N
P	12.703	US0042	REAR END	1755	2017	12	4	STRAIGHT & GRADE	DRY	2	CLEAR	W	W	Y	N	N	N	N	N	N	N	N	Y
P	12.705	US0042	ANGLE	1510	2017	12	29	STRAIGHT & GRADE	DRY	2	CLOUDY	E	W	Y	N	N	N	N	N	N	N	N	N
P	12.709	US0042	SIDESWIPE-SAME DIRECTION	1723	2016	4	15	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.718	US0042	REAR END	1400	2015	4	12	STRAIGHT & GRADE	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	N
P	12.721	US0042	REAR END	722	2014	10	15	STRAIGHT & GRADE	DRY	3	CLOUDY	E	E	N	N	N	N	N	N	N	N	N	N
C	12.721	US0042	REAR END	1325	2015	12	18	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.721	US0042	REAR END	1639	2015	2	11	STRAIGHT & GRADE	DRY	2	CLOUDY	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.729	US0042	REAR END	1704	2017	7	13	STRAIGHT & GRADE	WET	2	CLOUDY	W	W	Y	N	N	N	N	N	N	N	N	N
P	12.758	US0042	SIDESWIPE-SAME DIRECTION	1629	2015	12	21	STRAIGHT & GRADE	WET	2	RAINING	E	E	N	N	Y	N	N	N	N	N	N	N
C	12.763	US0042	ANGLE	1316	2016	10	16	STRAIGHT & GRADE	DRY	2	CLEAR	S	W	N	N	Y	N	N	N	N	N	N	N
P	12.77	US0042	ANGLE	1800	2015	8	20	STRAIGHT & GRADE	DRY	2	CLEAR	W	W	N	N	N	N	N	N	N	N	N	N
P	12.775	US0042	SIDESWIPE-SAME DIRECTION	804	2016	12	16	STRAIGHT & GRADE	DRY	2	CLOUDY	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.783	US0042	OPPOSING LEFT TURN	1706	2017	2	24	STRAIGHT & LEVEL	DRY	2	CLEAR		N	N	N	N	N	N	N	N	N	N	N
C	12.8	US0042	REAR END	1346	2016	3	25	STRAIGHT & LEVEL	DRY	2	CLOUDY	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.802	US0042	REAR END	1003	2017	5	25	STRAIGHT & GRADE	WET	2	RAINING	E	E	Y	N	Y	N	N	N	N	N	N	N
P	12.803	US0042	ANGLE	531	2014	10	23	STRAIGHT & GRADE	DRY	2	CLEAR	S	E	Y	N	Y	N	N	N	N	N	N	Y
P	12.803	US0042	REAR END	1510	2015	5	19	STRAIGHT & GRADE	DRY	2	CLEAR	W	W	Y	N	N	N	N	N	N	N	N	N
P	12.803	US0042	ANGLE	944	2016	8	27	STRAIGHT & GRADE	DRY	2	CLEAR	N	S	Y	N	Y	N	N	N	N	N	N	N
C	12.805	US0042	HEAD ON	2029	2014	3	8	STRAIGHT & LEVEL	DRY	2	CLEAR	E	W	N	N	N	N	N	N	N	N	N	Y
P	12.807	US0042	REAR END	1833	2015	1	21	STRAIGHT & GRADE	DRY	4	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	Y
B	12.808	US0042	ANGLE	1630	2017	1	15	STRAIGHT & GRADE	WET	2	RAINING	S	W	Y	N	N	N	N	N	N	N	N	N
P	12.809	US0042	SINGLE VEHICLE	626	2014	10	29	STRAIGHT & LEVEL	DRY	1	CLEAR	W		N	N	N	N	N	N	N	N	N	Y
P	12.81	US0042	ANGLE	1423	2016	6	29	STRAIGHT & LEVEL	DRY	2	CLEAR	S	W	Y	N	N	N	N	N	N	N	N	N
P	12.812	US0042	REAR END	1255	2018	1	26	STRAIGHT & LEVEL	DRY	3	CLEAR	E	E	N	N	N	N	N	N	N	N	N	N
P	12.813	US0042	ANGLE	1028	2017	9	1	STRAIGHT & LEVEL	WET	2	RAINING	N	E	N	N	Y	N	N	N	N	N	N	N
P	12.814	US0042	ANGLE	1002	2018	2	12	STRAIGHT & LEVEL	DRY	2	CLEAR	N	E	Y	N	N	N	N	N	N	N	N	N
P	12.82	US0042	REAR END	1527	2015	12	4	STRAIGHT & HILLCREST	DRY	3	CLEAR	E	E	N	N	N	N	N	N	N	N	N	N
P	12.822	US0042	REAR END	1610	2016	4	6	STRAIGHT & LEVEL	DRY	3	CLOUDY	E	E	N	N	N	N	N	N	N	N	N	N
P	12.823	US0042	ANGLE	1332	2016	9	26	STRAIGHT & GRADE	WET	2	CLOUDY	S	E	Y	N	Y	N	N	N	N	N	N	N
P	12.827	US0042	REAR END	1311	2015	5	2	STRAIGHT & LEVEL	DRY	3	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.833	US0042	REAR END	1538	2017	2	20	STRAIGHT & LEVEL	DRY	2	CLEAR	S	W	N	N	Y	N	N	N	N	N	N	N
P	12.841	US0042	REAR END	1818	2018	11	5	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	Y
P	12.842	US0042	ANGLE	1257	2015	4	4	STRAIGHT & HILLCREST	DRY	2	CLEAR	S	E	N	N	N	N	N	N	N	N	N	N
P	12.851	US0042	OPPOSING LEFT TURN	1547	2018	9	12	STRAIGHT & LEVEL	DRY	2	CLOUDY	S	E	Y	N	N	N	N	N	N	N	N	N
P	12.852	US0042	SIDESWIPE-SAME DIRECTION	1315	2018	2	10	STRAIGHT & LEVEL	WET	2	RAINING	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.858	US0042	REAR END	1228	2015	7	22	STRAIGHT & GRADE	DRY	2	CLEAR	E	E	N	N	N	N	N	N	N	N	N	N
P	12.865	US0042	REAR END	1450	2015	10	23	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.866	US0042	ANGLE	1241	2015	7	13	STRAIGHT & GRADE	DRY	2	CLEAR	N	W	Y	N	N	N	N	N	N	N	N	N
P	12.87	US0042	REAR END	828	2014	6	2	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.87	US0042	REAR END	1236	2015	9	27	STRAIGHT & GRADE	DRY	3	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N

Appendix B: Crash Records

SEVERITY	MILEPOINT DERIVED	RDWY	MANNERCOLL	CTIME	CYEAR	CMONTH	CDAY	RDWY CHAR	RDWY COND	UNITS INVOLVED	WEATHER	U1_DIR	U2_DIR	AGGO_HF_IND	ALCOHOL_HF_IND	DISTRACT	DROWSY_HF_IND	DRUG_HF_IND	SPEED_HF_IND	PEDESTRIAN_IND	BICYCLE_IND	DEER_IND	NIGHT_IND
P	12.883	US0042	SIDESWIPE-SAME DIRECTION	1155	2016	6	12	STRAIGHT & GRADE	DRY	2	CLEAR	W	W	Y	N	N	N	N	N	N	N	N	N
P	12.887	US0042	ANGLE	2047	2015	5	5	CURVE & LEVEL	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	Y
P	12.89	US0042	SIDESWIPE-SAME DIRECTION	1136	2018	5	24	STRAIGHT & GRADE	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.892	US0042	SIDESWIPE-SAME DIRECTION	1328	2016	2	10	STRAIGHT & LEVEL	WET	2	CLOUDY	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.893	US0042	REAR END	1846	2015	1	5	CURVE & GRADE	DRY	2	CLEAR	W	W	Y	N	Y	N	N	N	N	N	N	Y
P	12.895	US0042	REAR END	850	2016	7	27	STRAIGHT & GRADE	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.897	US0042	REAR END	1341	2014	1	28	STRAIGHT & GRADE	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.898	US0042	REAR END	1751	2014	2	11	STRAIGHT & LEVEL	DRY	2	CLOUDY	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.898	US0042	ANGLE	1454	2014	7	11	STRAIGHT & LEVEL	DRY	2	CLEAR	S	E	Y	N	N	N	N	N	N	N	N	N
P	12.898	US0042	SIDESWIPE-SAME DIRECTION	1326	2018	6	30	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.901	US0042	REAR END	1306	2015	4	20	STRAIGHT & LEVEL	DRY	2	CLOUDY		W	N	N	N	N	N	N	N	N	N	N
P	12.901	US0042	REAR END	1514	2017	2	20	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.912	US0042	REAR END	1913	2015	12	22	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	Y
P	12.918	US0042	REAR END	1404	2014	5	27	STRAIGHT & GRADE	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.918	US0042	REAR END	1825	2014	12	10	STRAIGHT & LEVEL	DRY	2	CLOUDY	E	E	N	N	Y	N	N	N	N	N	N	Y
P	12.918	US0042	SIDESWIPE-SAME DIRECTION	1558	2014	10	23	STRAIGHT & LEVEL	DRY	2	CLEAR		S	N	N	Y	N	N	N	N	N	N	N
P	12.918	US0042	REAR END	1833	2015	6	10	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.921	US0042	SIDESWIPE-SAME DIRECTION	1545	2014	4	1	CURVE & HILLCREST	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.921	US0042	REAR END	950	2018	6	16	CURVE & LEVEL	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.922	US0042	SIDESWIPE-OPPOSITE DIRECTION	1315	2014	11	26	STRAIGHT & LEVEL	DRY	4	CLEAR	W	E	N	N	N	N	N	N	N	N	N	N
P	12.922	US0042	ANGLE	1145	2015	3	31	STRAIGHT & GRADE	DRY	2	CLEAR	N	E	Y	N	Y	N	N	N	N	N	N	N
P	12.923	US0042	ANGLE	1235	2017	3	17	STRAIGHT & LEVEL	WET	2	CLOUDY		W	Y	N	N	N	N	N	N	N	N	N
P	12.925	US0042	REAR END	1332	2015	4	20	STRAIGHT & LEVEL	DRY	2	CLOUDY	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.927	US0042	SIDESWIPE-SAME DIRECTION	1519	2017	7	17	STRAIGHT & LEVEL	DRY	2	CLOUDY	W	W	Y	N	Y	N	N	N	N	N	N	N
P	12.927	US0042	REAR END	1828	2017	11	27	STRAIGHT & LEVEL	DRY	2	CLOUDY	W	W	N	N	N	N	N	N	N	N	N	Y
B	12.928	US0042	ANGLE	1429	2015	9	23	STRAIGHT & LEVEL	DRY	2	CLEAR	N	E	Y	N	N	N	N	N	N	N	N	N
P	12.929	US0042	REAR END	2107	2015	3	5	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	Y	N	N	N	N	N	N	N	Y
P	12.93	US0042	REAR END	1458	2018	2	2	STRAIGHT & LEVEL	SNOW/SL	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.931	US0042	ANGLE	1042	2016	2	6	STRAIGHT & LEVEL	DRY	2	CLEAR	N	E	Y	N	N	N	N	N	N	N	N	N
P	12.931	US0042	ANGLE	1117	2015	1	31	STRAIGHT & LEVEL	DRY	2	CLEAR	S	E	N	N	Y	N	N	N	N	N	N	N
P	12.934	US0042	REAR END	855	2018	6	14	STRAIGHT & LEVEL	DRY	3	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.937	US0042	SIDESWIPE-SAME DIRECTION	1628	2016	5	27	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.937	US0042	ANGLE	1415	2018	8	1	STRAIGHT & LEVEL	DRY	2	CLEAR	N	W	Y	N	N	N	N	N	N	N	N	N
P	12.94	US0042	ANGLE	1636	2016	5	18	STRAIGHT & LEVEL	DRY	2	CLOUDY	N	E	Y	N	N	N	N	N	N	N	N	N
P	12.94	US0042	SIDESWIPE-SAME DIRECTION	2350	2015	8	23	STRAIGHT & LEVEL	DRY	2	CLOUDY	W	W	N	N	Y	N	N	N	N	N	N	Y
P	12.941	US0042	SIDESWIPE-SAME DIRECTION	1302	2014	11	4	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	N	N	N	N	N	N	N	N	N
P	12.942	US0042	REAR END	901	2017	11	28	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	Y	N	Y	N	N	N	N	N	N	N
P	12.943	US0042	ANGLE	1411	2014	10	2	CURVE & LEVEL	DRY	2	CLEAR	E	N	Y	N	N	N	N	N	N	N	N	N
P	12.943	US0042	REAR END	1655	2016	2	24	STRAIGHT & LEVEL	WET	2	CLOUDY	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.944	US0042	HEAD ON	1451	2017	11	2	STRAIGHT & LEVEL	DRY	2	CLEAR	E	W	Y	N	Y	N	N	N	N	N	N	N
P	12.945	US0042	ANGLE	1506	2015	12	4	STRAIGHT & LEVEL	DRY	2	CLEAR	S	E	N	N	Y	N	N	N	N	N	N	N
P	12.945	US0042	SIDESWIPE-SAME DIRECTION	834	2015	8	18	STRAIGHT & LEVEL	DRY	2	CLOUDY	E	E	Y	N	N	N	N	N	N	N	N	N
P	12.946	US0042	SIDESWIPE-SAME DIRECTION	1620	2015	7	14	STRAIGHT & LEVEL	DRY	2	CLOUDY	W	W	Y	N	Y	N	N	N	N	N	N	N
P	12.949	US0042	REAR END	1545	2017	4	11	STRAIGHT & LEVEL	WET	2	CLEAR	E	E	N	N	N	N	N	N	N	N	N	N
P	12.95	US0042	SIDESWIPE-SAME DIRECTION	1721	2017	4	8	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	Y	N	N	N	N	N	N	N	N	N
P	12.95	US0042	REAR END	1358	2018	5	25	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.95	US0042	REAR END	1256	2015	11	20	STRAIGHT & LEVEL	DRY	3	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.95	US0042	SIDESWIPE-SAME DIRECTION	1854	2016	5	11	STRAIGHT & LEVEL	DRY	2	CLOUDY	E	E	Y	N	N	N	N	N	N	N	N	N
P	12.951	US0042	REAR END	1056	2018	12	21	STRAIGHT & GRADE	WET	2	CLOUDY	E	E	N	N	N	N	N	N	N	N	N	N
P	12.951	US0042	REAR END	1825	2014	1	14	CURVE & LEVEL	WET	2	RAINING	E	E	N	N	N	N	N	N	N	N	N	Y

Appendix B: Crash Records

SEVERITY	MILEPOINT DERIVED	RDWY	MANNERCOLL	CTIME	CYEAR	CMONTH	CDAY	RDWY CHAR	RDWY COND	UNITS INVOLVED	WEATHER	U1_DIR	U2_DIR	AGGO_HF_IND	ALCOHOL_HF_IND	DISTRACT	DROWSY_HF_IND	DRUG_HF_IND	SPEED_HF_IND	PEDESTRIAN_IND	BICYCLE_IND	DEER_IND	NIGHT_IND
P	12.951	US0042	REAR END	1122	2014	9	17	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	N	N	N	N	N	N	N	N	N
P	12.952	US0042	REAR END	1313	2016	6	20	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.952	US0042	SIDESWIPE-SAME DIRECTION	1658	2014	6	27	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.953	US0042	ANGLE	1157	2017	4	3	STRAIGHT & LEVEL	DRY	2	CLOUDY	E	E	N	N	Y	N	N	N	N	N	N	N
B	12.954	US0042	ANGLE	1512	2016	12	20	STRAIGHT & LEVEL	DRY	2	CLEAR	W	E	Y	N	N	N	N	N	N	N	N	N
P	12.955	US0042	ANGLE	1429	2015	7	29	STRAIGHT & LEVEL	DRY	2	CLOUDY	W	S	Y	N	Y	N	N	N	N	N	N	N
P	12.955	US0042	REAR END	1535	2018	2	19	STRAIGHT & LEVEL	DRY	2	CLOUDY	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.956	US0042	REAR END	1055	2017	11	22	STRAIGHT & LEVEL	DRY	3	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.956	US0042	BACKING	1532	2015	7	8	STRAIGHT & LEVEL	WET	2	RAINING	E	E	N	N	N	N	N	N	N	N	N	N
P	12.957	US0042	ANGLE	1518	2016	4	8	STRAIGHT & LEVEL	WET	2	RAINING	E	N	N	N	Y	N	N	N	N	N	N	N
P	12.957	US0042	ANGLE	1104	2016	4	4	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.958	US0042	REAR END	1334	2016	5	7	STRAIGHT & GRADE	DRY	2	CLOUDY	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.958	US0042	REAR END	1044	2018	7	27	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.959	US0042	REAR END	1736	2017	7	8	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.96	US0042	REAR END	2228	2018	10	6	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	Y	N	Y	N	N	N	N	N	N	Y
P	12.961	US0042	ANGLE	1325	2018	6	21	STRAIGHT & LEVEL	WET	2	RAINING	N	N	Y	N	N	N	N	N	N	N	N	N
P	12.961	US0042	ANGLE	1220	2018	4	13	CURVE & LEVEL	DRY	2	CLEAR	E	N	Y	N	Y	N	N	N	N	N	N	N
P	12.961	US0042	REAR END	1302	2014	5	1	CURVE & LEVEL	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.961	US0042	REAR END	1301	2017	7	21	STRAIGHT & LEVEL	DRY	2	CLOUDY	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.962	US0042	SIDESWIPE-SAME DIRECTION	1636	2017	12	14	STRAIGHT & LEVEL	DRY	2	CLOUDY	W	W	Y	N	N	N	N	N	N	N	N	N
P	12.963	US0042	SIDESWIPE-OPPOSITE DIRECTION	2310	2016	10	22	STRAIGHT & LEVEL	DRY	2	CLEAR	W	E	Y	Y	N	N	N	N	N	N	N	Y
P	12.963	US0042	ANGLE	1226	2014	5	12	CURVE & LEVEL	DRY	2	CLEAR	E	N	N	N	Y	N	N	N	N	N	N	N
P	12.963	US0042	REAR END	1759	2016	11	10	STRAIGHT & LEVEL	DRY	2	CLOUDY	E	E	N	N	Y	N	N	N	N	N	N	Y
P	12.963	US0042	REAR END	842	2015	7	29	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	N	N	N	N	N	N	N	N
C	12.963	US0042	ANGLE	1305	2014	8	28	STRAIGHT & LEVEL	DRY	2	CLEAR	W	E	Y	N	Y	N	N	N	N	N	N	N
P	12.963	US0042	REAR END	1249	2014	7	1	STRAIGHT & LEVEL	DRY	2	CLOUDY	W	W	Y	N	Y	N	N	N	N	N	N	N
P	12.963	US0042	SIDESWIPE-OPPOSITE DIRECTION	1723	2014	11	28	STRAIGHT & LEVEL	DRY	2	CLEAR	E	W	N	N	N	N	N	N	N	N	N	N
P	12.963	US0042	HEAD ON	2222	2015	6	9	STRAIGHT & LEVEL	DRY	2	CLEAR	W	E	N	N	N	N	N	N	N	N	N	Y
P	12.963	US0042	REAR END	1224	2016	10	16	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	12.963	US0042	REAR END	1211	2014	9	15	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	Y	N	N	N	N	N	N	N	N	N
P	12.963	US0042	ANGLE	1617	2015	2	13	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
C	12.963	US0042	ANGLE	836	2015	9	4	STRAIGHT & HILLCREST	DRY	2	CLEAR	S	E	Y	N	Y	N	N	N	N	N	N	N
B	12.963	US0042	ANGLE	1322	2015	1	29	STRAIGHT & LEVEL	DRY	2	CLEAR	E	S	Y	N	Y	N	N	N	N	N	N	N
P	12.963	US0042	REAR END	2110	2018	3	27	STRAIGHT & LEVEL	WET	2	RAINING	W	W	Y	N	Y	N	N	N	N	N	N	Y
P	12.963	US0042	REAR END	1004	2015	4	20	STRAIGHT & LEVEL	WET	3	CLOUDY	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.964	US0042	REAR END	1047	2016	6	14	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	N	N	N	N	N	N	N	N
P	12.964	US0042	REAR TO REAR	1533	2014	3	14	STRAIGHT & LEVEL	DRY	3	CLEAR	N	N	Y	N	Y	N	N	N	N	N	N	N
P	12.964	US0042	ANGLE	1935	2018	2	28	STRAIGHT & LEVEL	DRY	2	CLOUDY	S	S	Y	N	Y	N	N	N	N	N	N	Y
P	12.964	US0042	ANGLE	1835	2017	8	15	STRAIGHT & LEVEL	DRY	2	CLEAR	E	W	N	N	Y	N	N	N	N	N	N	N
A	12.964	US0042	ANGLE	1645	2016	4	15	STRAIGHT & LEVEL	DRY	2	CLEAR	N	W	N	N	Y	N	N	N	N	N	N	N
P	12.964	US0042	REAR END	2135	2018	5	16	CURVE & LEVEL	DRY	2	CLOUDY	W	W	Y	N	Y	N	N	N	N	N	N	Y
P	12.964	US0042	REAR END	2222	2018	6	20	STRAIGHT & LEVEL	DRY	4	CLEAR	W	W	N	Y	Y	N	Y	N	N	N	N	N
P	12.964	US0042	REAR END	730	2015	5	18	STRAIGHT & LEVEL	DRY	2	CLOUDY	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.964	US0042	SIDESWIPE-SAME DIRECTION	1522	2017	8	25	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	N	N	N	N	N	N	N	N
P	12.964	US0042	SIDESWIPE-SAME DIRECTION	2030	2017	3	4	STRAIGHT & LEVEL	DRY	2	CLEAR	N	N	N	N	Y	N	N	N	N	N	N	Y
P	12.964	US0042	REAR END	1154	2018	10	2	STRAIGHT & LEVEL	DRY	2	CLOUDY	W	W	N	N	Y	N	N	N	N	N	N	N
C	12.964	US0042	ANGLE	1602	2015	3	29	STRAIGHT & LEVEL	DRY	2	CLOUDY	S	W	Y	N	Y	N	N	N	N	N	N	N
B	12.964	US0042	REAR END	1800	2017	6	29	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	Y	N	N	N	N	N	N	N	N	N
P	12.965	US0042	REAR END	1510	2016	3	4	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.965	US0042	REAR END	1927	2015	2	19	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	Y

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SEVERITY	MILEPOINT DERIVED	RDWY	MANNERCOLL	CTIME	CYEAR	CMONTH	CDAY	RDWY CHAR	RDWY COND	UNITS INVOLVED	WEATHER	U1_DIR	U2_DIR	AGGO_HF_IND	ALCOHOL_HF_IND	DISTRACT	DROWSY_HF_IND	DRUG_HF_IND	SPEED_HF_IND	PEDESTRIAN_IND	BICYCLE_IND	DEER_IND	NIGHT_IND
P	12.965	US0042	REAR END	827	2017	7	7	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.965	US0042	REAR END	1947	2015	2	14	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	Y
P	12.965	US0042	REAR END	1656	2015	8	1	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.966	US0042	SIDESWIPE-SAME DIRECTION	1456	2018	11	30	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	Y	N	N	N	N	N	N	N	N	N
P	12.966	US0042	ANGLE	1702	2018	6	5	STRAIGHT & LEVEL	DRY	2	CLEAR	S	W	Y	N	Y	N	N	N	N	N	N	N
P	12.967	US0042	SIDESWIPE-SAME DIRECTION	1822	2015	9	1	STRAIGHT & GRADE	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.967	US0042	REAR END	717	2015	4	17	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	N	N	N	N	N	N	N	N
P	12.967	US0042	REAR END	1410	2017	8	1	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.967	US0042	REAR END	2210	2015	6	6	STRAIGHT & LEVEL	DRY	3	CLOUDY	W	W	N	N	Y	N	N	N	N	N	N	Y
P	12.967	US0042	SIDESWIPE-SAME DIRECTION	1448	2016	3	22	STRAIGHT & LEVEL	DRY	2	CLOUDY	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.967	US0042	SIDESWIPE-SAME DIRECTION	1317	2014	8	19	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	Y	N	N	N	N	N	N	N	N	N
P	12.969	US0042	REAR END	846	2015	1	27	STRAIGHT & LEVEL	DRY	2	CLOUDY	E	E	N	N	Y	N	N	N	N	N	N	N
C	12.97	US0042	REAR END	1411	2014	8	1	CURVE & LEVEL	DRY	2	CLEAR	W	W	Y	N	Y	N	N	N	N	N	N	N
P	12.971	US0042	REAR END	1714	2016	9	13	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.971	US0042	REAR END	1638	2015	11	11	STRAIGHT & LEVEL	DRY	2	CLEAR	S	W	Y	N	N	N	N	N	N	N	N	N
P	12.974	US0042	REAR END	1303	2018	7	13	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.974	US0042	REAR END	1615	2014	2	1	STRAIGHT & LEVEL	DRY	2	CLOUDY	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.976	US0042	REAR END	829	2016	10	31	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.983	US0042	REAR END	2210	2017	10	19	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	Y	N	N	N	N	N	N	N	Y
P	12.984	US0042	REAR END	1132	2018	11	10	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	N	N	N	N	N	N	N	N
P	12.986	US0042	ANGLE	1630	2018	5	17	STRAIGHT & LEVEL	DRY	2	CLOUDY	N	W	Y	N	N	N	N	N	N	N	N	N
P	12.988	US0042	ANGLE	1707	2017	10	10	STRAIGHT & LEVEL	WET	2	RAINING	E	W	Y	N	N	N	N	N	N	N	N	N
P	12.988	US0042	REAR END	1822	2014	6	22	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	12.991	US0042	ANGLE	1450	2014	4	30	STRAIGHT & GRADE	DRY	3	CLEAR	N	E	Y	N	Y	N	N	N	N	N	N	N
P	12.993	US0042	ANGLE	1550	2015	2	17	STRAIGHT & LEVEL	ICE	2	CLOUDY	N	W	Y	N	N	N	N	N	N	N	N	N
P	13	US0042	ANGLE	2028	2015	9	17	STRAIGHT & GRADE	DRY	2	CLEAR	N	W	Y	N	Y	N	N	N	N	N	N	Y
P	13.003	US0042	ANGLE	1739	2015	8	3	STRAIGHT & LEVEL	DRY	2	CLEAR	S	W	N	N	Y	N	N	N	N	N	N	N
B	13.004	US0042	SIDESWIPE-SAME DIRECTION	1335	2015	2	13	STRAIGHT & LEVEL	DRY	3	CLEAR	W	W	Y	N	N	N	N	N	N	N	N	N
P	13.011	US0042	OPPOSING LEFT TURN	2102	2016	8	19	STRAIGHT & LEVEL	DRY	2	CLEAR	S	W	Y	N	N	N	N	N	N	N	N	N
P	13.016	US0042	SIDESWIPE-SAME DIRECTION	1135	2017	4	27	STRAIGHT & LEVEL	WET	2	CLOUDY	N	W	Y	N	Y	N	N	N	N	N	N	N
A	13.018	US0042	ANGLE	1757	2016	6	16	STRAIGHT & LEVEL	DRY	2	CLEAR	E	W	Y	N	N	N	N	N	N	N	N	N
P	13.018	US0042	REAR END	1828	2017	4	18	STRAIGHT & LEVEL	DRY	3	CLEAR	W	E	Y	N	N	N	N	N	N	N	N	N
P	13.019	US0042	ANGLE	1303	2018	7	13	STRAIGHT & LEVEL	DRY	2	CLEAR	E	W	Y	N	N	N	N	N	N	N	N	N
P	13.025	US0042	ANGLE	1920	2017	2	27	STRAIGHT & LEVEL	DRY	2	CLEAR	S	W	Y	N	Y	N	N	N	N	N	N	Y
P	13.027	US0042	ANGLE	2021	2014	10	16	STRAIGHT & LEVEL	DRY	2	CLEAR	E	W	N	N	Y	N	N	N	N	N	N	Y
P	13.031	US0042	REAR END	1557	2014	3	11	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	13.035	US0042	ANGLE	1447	2014	4	29	STRAIGHT & LEVEL	DRY	2	CLEAR	N	W	N	N	Y	N	N	N	N	N	N	N
P	13.038	US0042	REAR END	2227	2018	11	23	STRAIGHT & LEVEL	WET	2	RAINING	E	E	N	Y	Y	N	N	N	N	N	N	Y
B	13.038	US0042	ANGLE	1034	2017	1	4	STRAIGHT & LEVEL	DRY	2	CLEAR	S	E	Y	N	Y	N	N	N	N	N	N	N
P	13.041	US0042	REAR END	107	2016	2	12	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	N	N	N	N	N	N	N	Y
B	13.043	US0042	ANGLE	1531	2015	11	2	STRAIGHT & LEVEL	DRY	2	CLEAR	E	W	Y	N	N	N	N	N	N	N	N	N
P	13.044	US0042	REAR END	840	2015	1	27	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	Y	N	N	N	N	N	N	N	N	N
P	13.045	US0042	REAR END	133	2016	8	12	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	N	N	N	N	N	N	N	N	Y
C	13.045	US0042	REAR END	1336	2014	5	20	STRAIGHT & LEVEL	DRY	2	CLOUDY	W	W	N	N	Y	N	N	N	N	N	N	N
P	13.047	US0042	REAR END	1621	2018	4	20	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	13.049	US0042	SIDESWIPE-SAME DIRECTION	1650	2014	5	28	STRAIGHT & LEVEL	DRY	2	CLOUDY	E	E	Y	N	Y	N	N	N	N	N	N	N
P	13.05	US0042	SIDESWIPE-SAME DIRECTION	1228	2016	7	18	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	13.053	US0042	ANGLE	637	2016	9	22	STRAIGHT & LEVEL	DRY	2	CLEAR	S	E	Y	N	N	N	N	N	N	N	N	N
P	13.053	US0042	REAR END	1041	2017	8	24	STRAIGHT & LEVEL	DRY	3	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
B	13.058	US0042	SIDESWIPE-SAME DIRECTION	2125	2016	9	11	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	Y

Appendix B: Crash Records

SEVERITY	MILEPOINT DERIVED	RDWY	MANNERCOLL	CTIME	CYEAR	CMONTH	CDAY	RDWY CHAR	RDWY COND	UNITS INVOLVED	WEATHER	U1_DIR	U2_DIR	AGGO_HF_IND	ALCOHOL_HF_IND	DISTRACT	DROWSY_HF_IND	DRUG_HF_IND	SPEED_HF_IND	PEDESTRIAN_IND	BICYCLE_IND	DEER_IND	NIGHT_IND
P	13.06	US0042	REAR END	1827	2017	1	12	STRAIGHT & LEVEL	WET	2	RAINING	S	S	N	N	N	N	N	N	N	N	N	Y
P	13.061	US0042	SIDESWIPE-SAME DIRECTION	1405	2016	2	12	STRAIGHT & LEVEL	DRY	2	CLOUDY	W	W	N	N	N	N	N	N	N	N	N	N
P	13.061	US0042	REAR END	1225	2018	7	31	STRAIGHT & LEVEL	DRY	2	CLOUDY	W	W	N	N	Y	N	N	N	N	N	N	N
B	13.061	US0042	ANGLE	14	2014	8	17	STRAIGHT & LEVEL	DRY	2	CLEAR	N	E	Y	N	N	N	N	N	N	N	N	Y
P	13.062	US0042	ANGLE	1827	2018	5	31	STRAIGHT & LEVEL	WET	2	CLOUDY	E	E	N	N	Y	N	N	N	N	N	N	N
P	13.063	US0042	ANGLE	1518	2018	4	20	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	13.064	US0042	ANGLE	1443	2016	1	17	CURVE & LEVEL	WET	2	SNOWING	E	E	Y	N	Y	N	N	N	N	N	N	N
P	13.064	US0042	REAR END	1650	2017	5	25	STRAIGHT & LEVEL	WET	2	CLEAR	W	W	Y	N	N	N	N	N	N	N	N	N
P	13.065	US0042	ANGLE	723	2018	3	8	STRAIGHT & LEVEL	ICE	3	SNOWING	N	E	N	N	N	N	N	N	N	N	N	N
P	13.066	US0042	ANGLE	1851	2016	8	21	STRAIGHT & LEVEL	DRY	2	CLEAR	N	E	Y	N	N	N	N	N	N	N	N	N
P	13.066	US0042	SINGLE VEHICLE	2041	2015	4	17	STRAIGHT & LEVEL	DRY	1	CLEAR	E		N	N	Y	N	N	N	N	N	N	Y
P	13.068	US0042	REAR END	956	2014	12	1	STRAIGHT & GRADE	WET	2	RAINING	N	E	Y	N	Y	N	N	N	N	N	N	N
P	13.069	US0042	SIDESWIPE-SAME DIRECTION	1731	2016	11	9	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	13.07	US0042	REAR END	1805	2016	11	2	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	Y	N	N	N	N	N	N	N	N	N
P	13.072	US0042	ANGLE	1415	2014	9	26	CURVE & LEVEL	DRY	2	CLEAR	E	W	Y	N	N	N	N	N	N	N	N	N
P	13.084	US0042	REAR END	1217	2015	8	10	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	13.085	US0042	REAR END	1553	2016	2	15	STRAIGHT & LEVEL	WET	2	CLOUDY	W	W	N	N	Y	N	N	N	N	N	N	N
P	13.085	US0042	REAR END	1740	2018	12	7	STRAIGHT & LEVEL	DRY	2	CLOUDY	W	W	Y	N	N	N	N	N	N	N	N	Y
P	13.092	US0042	ANGLE	1730	2014	12	4	STRAIGHT & LEVEL	WET	2	RAINING	S	W	Y	N	Y	N	N	N	N	N	N	Y
P	13.095	US0042	REAR END	1920	2014	12	11	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	Y
B	13.104	US0042	ANGLE	2255	2014	2	13	STRAIGHT & GRADE	ICE	2	CLEAR	E		N	N	Y	N	N	N	N	N	N	Y
P	13.106	US0042	SINGLE VEHICLE	111	2014	11	5	STRAIGHT & LEVEL	WET	1	CLOUDY	S		N	N	Y	N	N	N	N	N	N	Y
P	13.107	US0042	REAR END	1715	2017	12	4	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	N
P	13.116	US0042	REAR END	1628	2016	5	16	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	13.116	US0042	SINGLE VEHICLE	103	2014	11	5	STRAIGHT & LEVEL	WET	1	CLOUDY	W		N	N	N	N	N	N	N	N	N	Y
P	13.116	US0042	BACKING	103	2017	11	5	STRAIGHT & LEVEL	DRY	2	CLEAR	W	S	N	Y	Y	N	N	N	N	N	N	Y
P	13.118	US0042	SIDESWIPE-SAME DIRECTION	1245	2014	4	1	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
B	13.125	US0042	SINGLE VEHICLE	2348	2014	9	19	STRAIGHT & LEVEL	DRY	1	CLEAR	N		N	Y	N	N	N	N	N	N	N	Y
P	13.126	US0042	SIDESWIPE-SAME DIRECTION	1420	2015	1	5	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	N	N	N	N	N	N	N	N	N
P	13.132	US0042	REAR END	1534	2016	8	31	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	N	N	N	N	N	N	N	N
A	13.138	US0042	ANGLE	1820	2017	12	16	STRAIGHT & LEVEL	DRY	2	CLEAR	N	E	Y	Y	N	N	N	N	N	N	N	Y
P	13.138	US0042	ANGLE	743	2017	12	22	STRAIGHT & LEVEL	WET	2	CLOUDY	N	E	Y	N	Y	N	N	N	N	N	N	Y
B	13.146	US0042	ANGLE	1932	2015	10	5	STRAIGHT & LEVEL	DRY	2	CLEAR	S	W	N	N	Y	N	N	N	N	N	N	N
P	13.146	US0042	REAR END	1745	2018	7	16	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	13.148	US0042	ANGLE	1655	2017	2	24	STRAIGHT & LEVEL	DRY	2	CLEAR	S	W	Y	N	N	N	N	N	N	N	N	N
P	13.148	US0042	ANGLE	1925	2018	4	25	STRAIGHT & GRADE	DRY	2	CLEAR	N	N	N	N	Y	N	N	N	N	N	N	N
B	13.149	US0042	ANGLE	1659	2014	8	31	STRAIGHT & LEVEL	DRY	2	CLEAR	S	W	Y	N	Y	N	N	N	N	N	N	N
P	13.149	US0042	REAR END	1749	2016	2	23	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	Y	N	Y	N	N	N	N	N	N	N
P	13.15	US0042	REAR END	1702	2016	1	15	STRAIGHT & LEVEL	WET	3	RAINING	W	W	Y	N	Y	N	N	N	N	N	N	N
P	13.151	US0042	SIDESWIPE-SAME DIRECTION	1754	2014	11	24	STRAIGHT & LEVEL	DRY	2	CLOUDY	W	W	N	N	Y	N	N	N	N	N	N	Y
P	13.151	US0042	REAR END	1616	2016	8	16	STRAIGHT & LEVEL	WET	2	RAINING	W	W	Y	N	N	N	N	N	N	N	N	N
P	13.154	US0042	HEAD ON	1851	2016	11	30	STRAIGHT & LEVEL	WET	2	CLEAR	W	E	Y	N	Y	N	N	N	N	N	N	Y
P	13.155	US0042	REAR END	1719	2017	11	2	STRAIGHT & LEVEL	DRY	3	CLOUDY	W	W	N	N	Y	N	N	N	N	N	N	N
P	13.159	US0042	REAR END	1354	2016	8	31	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	N	N	N	N	N	N	N	N
P	13.162	US0042	ANGLE	1301	2015	8	6	STRAIGHT & LEVEL	WET	2	CLOUDY	S	W	Y	N	Y	N	N	N	N	N	N	N
P	13.171	US0042	REAR END	1823	2017	11	29	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	Y	N	N	N	N	N	N	N	N	Y
P	13.186	US0042	SIDESWIPE-SAME DIRECTION	1619	2016	8	22	STRAIGHT & GRADE	DRY	2	CLEAR	W	W	Y	N	Y	N	N	N	N	N	N	N
B	13.196	US0042	SIDESWIPE-SAME DIRECTION	1305	2016	11	2	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	Y	N	N	N	N	Y	N	N	N	N
P	13.202	US0042	SIDESWIPE-SAME DIRECTION	725	2015	9	14	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	13.205	US0042	REAR END	1728	2014	4	28	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	Y	N	N	N	N	N	N	N	N	N

Appendix B: Crash Records

SEVERITY	MILEPOINT DERIVED	RDWY	MANNERCOLL	CTIME	CYEAR	CMONTH	CDAY	RDWY CHAR	RDWY COND	UNITS INVOLVED	WEATHER	U1_DIR	U2_DIR	AGGO_HF_IND	ALCOHOL_HF_IND	DISTRACT	DROWSY_HF_IND	DRUG_HF_IND	SPEED_HF_IND	PEDESTRIAN_IND	BICYCLE_IND	DEER_IND	NIGHT_IND
P	13.21	US0042	REAR END	1759	2015	9	15	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
B	13.212	US0042	REAR END	958	2014	12	19	STRAIGHT & LEVEL	DRY	2	CLOUDY	W	W	N	N	Y	N	N	N	N	N	N	N
C	13.22	US0042	ANGLE	840	2015	5	20	STRAIGHT & LEVEL	DRY	2	CLEAR	W	E	N	N	N	N	N	N	N	N	N	N
P	13.22	US0042	REAR END	1252	2016	5	27	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	13.22	US0042	HEAD ON	1125	2015	6	25	STRAIGHT & LEVEL	DRY	2	CLOUDY	W	N	N	N	N	N	N	N	N	N	N	N
P	13.229	US0042	ANGLE	716	2017	10	25	STRAIGHT & LEVEL	DRY	2	CLOUDY	W	E	N	N	N	N	N	N	N	N	N	Y
P	13.231	US0042	ANGLE	839	2017	5	19	STRAIGHT & LEVEL	DRY	2	CLEAR	S	W	Y	N	Y	N	N	N	N	N	N	N
P	13.237	US0042	REAR END	805	2015	1	12	STRAIGHT & LEVEL	WET	3	RAINING	W	W	Y	N	N	N	Y	N	N	N	N	N
P	13.239	US0042	REAR END	1517	2015	9	28	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	Y	N	Y	N	N	N	N	N	N	N
P	13.245	US0042	SINGLE VEHICLE	330	2018	4	8	CURVE & LEVEL	DRY	1	CLEAR	W		N	N	N	N	N	N	N	N	N	Y
P	13.25	US0042	ANGLE	1738	2015	9	1	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	N	N	N	N	N	N	N	N
P	13.251	US0042	REAR END	1500	2016	8	22	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	Y	N	Y	N	N	N	N	N	N	N
P	13.252	US0042	ANGLE	1153	2014	4	18	STRAIGHT & LEVEL	DRY	2	CLEAR	N	E	Y	N	N	N	N	N	N	N	N	N
P	13.253	US0042	ANGLE	1721	2016	11	17	STRAIGHT & LEVEL	DRY	2	CLEAR	W	E	N	N	Y	N	N	N	N	N	N	N
P	13.253	US0042	REAR END	1718	2016	6	29	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	13.254	US0042	ANGLE	902	2017	1	30	STRAIGHT & LEVEL	DRY	2	CLEAR	S	W	Y	N	Y	N	N	N	N	N	N	N
P	13.256	US0042	REAR END	1708	2015	7	30	STRAIGHT & GRADE	DRY	2	CLEAR	W	W	Y	N	Y	N	N	N	N	N	N	N
P	13.257	US0042	REAR END	741	2018	9	18	STRAIGHT & LEVEL	DRY	3	CLEAR	W	W	N	N	Y	Y	N	N	N	N	N	N
P	13.258	US0042	ANGLE	1955	2014	12	3	STRAIGHT & LEVEL	DRY	2	CLEAR	S	W	Y	N	N	N	N	N	N	N	N	Y
P	13.259	US0042	REAR END	704	2018	3	8	STRAIGHT & LEVEL	SNOW/SL	2	CLOUDY	E	E	N	N	N	N	N	N	N	N	N	N
P	13.259	US0042	REAR END	839	2014	2	26	STRAIGHT & LEVEL	SNOW/SL	3	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	13.259	US0042	REAR END	1819	2016	9	19	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	Y	N	Y	N	N	N	N	N	N	N
P	13.261	US0042	REAR END	900	2017	3	14	STRAIGHT & LEVEL	DRY	2	CLOUDY	W	W	N	N	Y	N	N	N	N	N	N	N
P	13.262	US0042	REAR END	1542	2018	11	16	STRAIGHT & LEVEL	DRY	3	CLEAR	W	W	Y	N	N	N	N	N	N	N	N	N
P	13.262	US0042	REAR END	1441	2014	6	10	STRAIGHT & LEVEL	DRY	3	CLOUDY	E	E	N	N	Y	N	N	N	N	N	N	N
P	13.263	US0042	REAR END	1800	2018	1	2	STRAIGHT & LEVEL	DRY	3	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	Y
P	13.263	US0042	SIDESWIPE-SAME DIRECTION	1332	2015	2	13	CURVE & LEVEL	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	N
P	13.263	US0042	ANGLE	635	2018	1	30	STRAIGHT & LEVEL	DRY	2	CLOUDY	S	W	N	N	Y	N	N	N	N	N	N	N
P	13.263	US0042	REAR END	1747	2018	7	17	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	Y	N	N	N	N	N	N	N	N	N
P	13.263	US0042	REAR END	1800	2016	11	22	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	Y
P	13.263	US0042	SIDESWIPE-SAME DIRECTION	1407	2017	3	17	STRAIGHT & LEVEL	WET	2	CLOUDY	E	E	N	N	Y	N	N	N	N	N	N	N
P	13.263	US0042	REAR END	730	2018	11	9	STRAIGHT & LEVEL	WET	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	13.263	US0042	SIDESWIPE-OPPOSITE DIRECTION	739	2016	9	13	STRAIGHT & LEVEL	DRY	2	CLEAR	W	E	N	N	Y	N	N	N	N	N	N	N
P	13.264	US0042	REAR END	1326	2016	6	23	STRAIGHT & LEVEL	DRY	2	CLOUDY	E	E	Y	N	N	N	N	N	N	N	N	N
P	13.264	US0042	REAR END	1017	2018	8	8	STRAIGHT & LEVEL	DRY	2	CLOUDY	E	E	N	N	Y	N	N	N	N	N	N	N
P	13.264	US0042	OPPOSING LEFT TURN	1315	2015	10	16	STRAIGHT & LEVEL	DRY	2	CLEAR	E	W	Y	N	N	N	N	N	N	N	N	N
P	13.264	US0042	REAR END	1730	2017	1	11	STRAIGHT & LEVEL	WATER (S	2	RAINING	E	E	N	N	Y	N	N	N	N	N	N	Y
P	13.264	US0042	BACKING	1354	2016	8	10	STRAIGHT & LEVEL	DRY	2	CLEAR	W	E	N	N	N	N	N	N	N	N	N	N
P	13.264	US0042	REAR END	1310	2014	10	14	STRAIGHT & LEVEL	WET	2	RAINING	E	E	N	N	Y	N	N	N	N	N	N	N
P	13.264	US0042	ANGLE	1230	2017	8	23	STRAIGHT & LEVEL	DRY	2	CLEAR	N	E	Y	N	Y	N	N	N	N	N	N	N
P	13.265	US0042	REAR END	1505	2017	8	1	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	Y	N	Y	N	N	N	N	N	N	N
P	13.266	US0042	REAR END	835	2016	9	12	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	13.267	US0042	SIDESWIPE-SAME DIRECTION	704	2016	12	12	STRAIGHT & LEVEL	WET	2	RAINING	W	W	N	N	Y	N	N	N	N	N	N	Y
P	13.271	US0042	REAR END	1626	2017	8	2	STRAIGHT & LEVEL	DRY	2	CLOUDY	W	W	Y	N	N	N	N	N	N	N	N	N
P	13.273	US0042	SINGLE VEHICLE	738	2015	10	19	STRAIGHT & LEVEL	DRY	2	CLEAR	E		N	N	Y	N	N	N	Y	N	N	N
P	13.275	US0042	REAR END	1808	2016	8	8	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	N	N	N	N	N	N	N	N
P	13.278	US0042	ANGLE	1850	2015	10	2	STRAIGHT & LEVEL	WET	2	RAINING	E	W	Y	N	Y	N	N	N	N	N	N	N
P	13.279	US0042	REAR END	1734	2015	3	18	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
C	13.282	US0042	ANGLE	1507	2016	11	13	CURVE & LEVEL	DRY	2	CLEAR	S	W	Y	N	Y	N	N	N	N	N	N	N
P	13.283	US0042	REAR END	1201	2016	1	8	STRAIGHT & LEVEL	WET	2	RAINING	W	W	N	N	Y	N	N	N	N	N	N	N

Appendix B: Crash Records

SEVERITY	MILEPOINT DERIVED	RDWY	MANNERCOLL	CTIME	CYEAR	CMONTH	CDAY	RDWY CHAR	RDWY COND	UNITS INVOLVED	WEATHER	U1_DIR	U2_DIR	AGGO_HF_IND	ALCOHOL_HF_IND	DISTRACT	DROWSY_HF_IND	DRUG_HF_IND	SPEED_HF_IND	PEDESTRIAN_IND	BICYCLE_IND	DEER_IND	NIGHT_IND
P	13.286	US0042	REAR END	1600	2015	11	2	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	Y	N	N	N	N	N	N	N	N	N
P	13.286	US0042	SIDESWIPE-SAME DIRECTION	1613	2017	3	7	STRAIGHT & LEVEL	WET	2	RAINING	E	E	Y	N	N	N	N	Y	N	N	N	N
P	13.302	US0042	ANGLE	1305	2015	10	14	STRAIGHT & LEVEL	DRY	2	CLEAR	S	W	Y	N	N	N	N	N	N	N	N	N
C	13.302	US0042	ANGLE	1525	2014	9	17	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	Y	N	N	N	N	N	N	N	N	N
P	13.314	US0042	ANGLE	1302	2015	9	23	STRAIGHT & LEVEL	DRY	2	CLEAR	E	W	Y	N	Y	N	N	N	N	N	N	N
P	13.315	US0042	REAR END	1742	2018	10	26	STRAIGHT & LEVEL	WET	2	RAINING	W	W	N	N	N	N	N	N	N	N	N	N
P	13.316	US0042	ANGLE	732	2018	4	11	STRAIGHT & LEVEL	DRY	2	CLEAR	S	W	Y	N	Y	N	N	N	N	N	N	N
P	13.32	US0042	ANGLE	1008	2016	9	18	STRAIGHT & LEVEL	DRY	2	CLOUDY	E	W	Y	N	Y	N	N	N	N	N	N	N
P	13.323	US0042	ANGLE	1320	2015	1	20	STRAIGHT & LEVEL	DRY	2	CLEAR	S	W	Y	N	N	N	N	N	N	N	N	N
P	13.324	US0042	ANGLE	609	2015	9	22	STRAIGHT & LEVEL	DRY	2	CLEAR	S	W	Y	N	Y	N	N	N	N	N	N	Y
P	13.325	US0042	ANGLE	1219	2014	6	5	STRAIGHT & LEVEL	DRY	2	CLEAR	N	W	Y	N	N	N	N	N	N	N	N	N
P	13.326	US0042	REAR END	1740	2014	6	15	CURVE & LEVEL	DRY	2	CLEAR	E	E	N	N	Y	N	N	Y	N	N	N	N
P	13.331	US0042	ANGLE	1336	2017	5	21	STRAIGHT & LEVEL	DRY	2	CLOUDY	S	W	N	N	Y	N	N	N	N	N	N	N
P	13.332	US0042	SIDESWIPE-SAME DIRECTION	953	2014	8	7	CURVE & LEVEL	DRY	2	CLOUDY	W	W	N	N	N	N	N	N	N	N	N	N
P	13.334	US0042	ANGLE	1318	2014	1	18	STRAIGHT & LEVEL	DRY	2	CLOUDY	S	W	Y	N	N	N	N	N	N	N	N	N
P	13.335	US0042	REAR END	642	2017	10	25	STRAIGHT & LEVEL	DRY	3	CLOUDY	E	E	Y	N	N	N	N	N	N	N	N	Y
P	13.338	US0042	REAR END	1126	2016	9	20	CURVE & LEVEL	DRY	2	CLEAR	N	E	Y	N	Y	N	N	N	N	N	N	N
P	13.346	US0042	ANGLE	1319	2016	6	10	STRAIGHT & LEVEL	WET	2	RAINING		W	N	N	N	N	N	N	N	N	N	N
P	13.346	US0042	ANGLE	820	2016	10	11	STRAIGHT & LEVEL	DRY	2	CLEAR	S	W	Y	N	Y	N	N	N	N	N	N	N
P	13.348	US0042	ANGLE	1148	2017	7	24	STRAIGHT & LEVEL	DRY	2	CLEAR	S	W	N	N	Y	N	N	N	N	N	N	N
C	13.348	US0042	REAR END	1430	2015	3	7	CURVE & LEVEL	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	13.35	US0042	REAR END	1444	2016	12	13	STRAIGHT & LEVEL	WET	2	SNOWING	W	W	Y	N	N	N	N	N	N	N	N	N
P	13.351	US0042	REAR END	1240	2015	4	25	STRAIGHT & LEVEL	WET	2	RAINING	E	E	Y	N	N	N	N	N	N	N	N	N
P	13.351	US0042	SIDESWIPE-SAME DIRECTION	1156	2014	5	10	STRAIGHT & LEVEL	DRY	2	CLOUDY	W	W	N	N	N	N	N	N	N	N	N	N
P	13.353	US0042	SIDESWIPE-SAME DIRECTION	1524	2016	7	22	STRAIGHT & LEVEL	DRY	2	CLOUDY	E	E	Y	N	Y	N	N	N	N	N	N	N
B	13.358	US0042	HEAD ON	1443	2017	5	18	STRAIGHT & LEVEL	DRY	3	CLEAR	E	W	Y	N	N	N	N	N	N	N	N	N
B	13.358	US0042	SIDESWIPE-SAME DIRECTION	728	2014	12	4	CURVE & LEVEL	DRY	3	CLOUDY	W	W	N	N	Y	Y	N	N	N	N	N	N
C	13.358	US0042	ANGLE	20	2016	12	18	CURVE & LEVEL	WET	2	RAINING	S	W	Y	N	Y	N	N	N	N	N	N	Y
P	13.358	US0042	REAR END	1816	2014	6	13	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	13.358	US0042	HEAD ON	2012	2014	11	1	STRAIGHT & LEVEL	DRY	2	CLEAR	W	S	N	N	N	N	N	N	N	N	N	Y
P	13.362	US0042	ANGLE	829	2017	4	3	STRAIGHT & LEVEL	DRY	2	CLOUDY	S	W	Y	N	Y	N	N	N	N	N	N	N
P	13.363	US0042	ANGLE	931	2014	1	30	STRAIGHT & LEVEL	DRY	2	CLEAR	S	W	Y	N	Y	N	N	N	N	N	N	N
P	13.363	US0042	REAR END	1814	2014	1	2	STRAIGHT & LEVEL	SNOW/SL	2	SNOWING	E	E	Y	N	N	N	N	N	N	N	N	N
P	13.363	US0042	REAR END	1814	2014	1	2	STRAIGHT & LEVEL	SNOW/SL	2	SNOWING	E	E	Y	N	N	N	N	N	N	N	N	N
P	13.369	US0042	REAR END	1113	2014	8	31	CURVE & LEVEL	WET	3	CLOUDY	E	E	N	N	Y	N	N	N	N	N	N	N
C	13.374	US0042	ANGLE	1905	2016	9	3	STRAIGHT & LEVEL	DRY	2	CLEAR	S	W	Y	N	N	N	N	N	N	N	N	N
P	13.377	US0042	ANGLE	2051	2016	4	6	STRAIGHT & LEVEL	WET	2	CLOUDY	W	W	Y	N	N	N	N	N	N	N	N	Y
P	13.378	US0042	ANGLE	119	2015	4	25	STRAIGHT & LEVEL	DRY	2	CLEAR	S	W	Y	Y	N	N	N	N	N	N	N	Y
P	13.39	US0042	SIDESWIPE-SAME DIRECTION	654	2015	11	12	STRAIGHT & LEVEL	WET	2	CLOUDY	W	W	Y	N	N	N	N	N	N	N	N	N
P	13.392	US0042	REAR END	1724	2016	6	2	STRAIGHT & LEVEL	WET	2	RAINING	W	W	N	N	N	N	N	N	N	N	N	N
P	13.397	US0042	REAR END	1843	2016	2	17	CURVE & LEVEL	DRY	3	CLOUDY	W	W	Y	N	N	N	N	N	N	N	N	Y
P	13.398	US0042	ANGLE	1600	2016	9	2	STRAIGHT & LEVEL	DRY	2	CLEAR	N	N	N	N	Y	N	N	N	N	N	N	N
P	13.406	US0042	ANGLE	1553	2017	9	5	STRAIGHT & LEVEL	DRY	2	CLEAR	N	W	Y	N	N	N	N	N	N	N	N	N
P	13.417	US0042	ANGLE	2121	2016	12	30	STRAIGHT & LEVEL	DRY	2	CLEAR	S	W	Y	N	N	N	N	N	N	N	N	Y
P	13.417	US0042	ANGLE	1716	2017	8	7	STRAIGHT & LEVEL	DRY	3	CLEAR	N	W	Y	N	N	N	N	N	N	N	N	N
P	13.42	US0042	REAR END	649	2014	1	27	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	Y
P	13.422	US0042	ANGLE	1413	2016	9	9	STRAIGHT & LEVEL	DRY	2	CLOUDY	E	W	Y	N	Y	N	N	N	N	N	N	N
A	13.422	US0042	OPPOSING LEFT TURN	1620	2014	4	14	CURVE & LEVEL	DRY	2	CLOUDY	E	W	Y	N	N	N	N	N	N	N	N	N
P	13.425	US0042	SIDESWIPE-SAME DIRECTION	1924	2017	1	16	STRAIGHT & LEVEL	WET	2	RAINING	E	E	N	N	Y	N	N	N	N	N	N	Y
P	13.426	US0042	REAR END	1049	2016	2	17	STRAIGHT & LEVEL	DRY	2	CLOUDY	W	W	N	N	Y	N	N	N	N	N	N	N

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SEVERITY	MILEPOINT DERIVED	RDWY	MANNERCOLL	CTIME	CYEAR	CMONTH	CDAY	RDWY CHAR	RDWY COND	UNITS INVOLVED	WEATHER	U1_DIR	U2_DIR	AGGO_HF_IND	ALCOHOL_HF_IND	DISTRACT	DROWSY_HF_IND	DRUG_HF_IND	SPEED_HF_IND	PEDESTRIAN_IND	BICYCLE_IND	DEER_IND	NIGHT_IND
C	13.428	US0042	REAR END	1714	2014	5	14	STRAIGHT & LEVEL	DRY	2	CLOUDY	W	W	N	N	Y	N	N	N	N	N	N	N
P	13.428	US0042	REAR END	1220	2014	1	8	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
C	13.429	US0042	REAR END	841	2017	1	27	STRAIGHT & LEVEL	WET	2	SNOWING	E	E	N	N	Y	N	N	N	N	N	N	N
P	13.43	US0042	ANGLE	1303	2018	8	24	STRAIGHT & LEVEL	DRY	2	CLEAR	S	W	N	N	Y	N	N	N	N	N	N	N
P	13.43	US0042	ANGLE	1818	2014	12	16	CURVE & LEVEL	WET	2	CLOUDY	W	W	Y	N	N	N	N	N	N	N	N	Y
B	13.432	US0042	ANGLE	1108	2015	2	27	STRAIGHT & LEVEL	DRY	2	CLEAR	S	W	Y	N	N	N	N	N	N	N	N	N
P	13.432	US0042	REAR END	1310	2014	2	25	STRAIGHT & LEVEL	DRY	2	CLOUDY	E	E	N	N	N	N	N	N	N	N	N	N
P	13.432	US0042	REAR END	1806	2014	4	2	STRAIGHT & LEVEL	WET	2	RAINING	E	E	N	N	N	N	N	N	N	N	N	N
P	13.434	US0042	REAR END	1618	2017	6	3	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	13.435	US0042	ANGLE	1433	2016	1	10	STRAIGHT & LEVEL	SNOW/SL	2	CLOUDY	S	W	Y	N	Y	N	N	N	N	N	N	N
P	13.439	US0042	REAR END	1830	2014	4	25	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	13.441	US0042	ANGLE	1119	2014	4	6	STRAIGHT & LEVEL	DRY	2	CLEAR	S	E	Y	N	N	N	N	N	N	N	N	N
P	13.449	US0042	REAR END	1006	2014	2	19	STRAIGHT & LEVEL	WET	2	CLEAR	W	W	Y	N	Y	N	N	N	N	N	N	N
P	13.45	US0042	OPPOSING LEFT TURN	1912	2014	12	20	STRAIGHT & LEVEL	DRY	2	CLOUDY	E	E	Y	N	N	N	N	N	N	N	N	Y
P	13.454	US0042	ANGLE	1536	2017	4	25	STRAIGHT & LEVEL	DRY	2	CLEAR	S	E	Y	N	N	N	N	N	N	N	N	N
P	13.456	US0042	SIDESWIPE-SAME DIRECTION	1739	2017	10	23	STRAIGHT & LEVEL	WET	2	CLOUDY	N	E	N	N	Y	N	N	N	N	N	N	N
P	13.457	US0042	SIDESWIPE-SAME DIRECTION	1846	2014	11	26	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	N	N	N	N	N	N	N	N	Y
C	13.457	US0042	SINGLE VEHICLE	2255	2018	10	18	STRAIGHT & LEVEL	DRY	1	CLEAR	E		N	N	N	N	N	N	N	N	N	Y
P	13.459	US0042	ANGLE	2347	2015	1	31	STRAIGHT & LEVEL	WET	2	CLOUDY	W	S	N	N	Y	N	N	N	N	N	N	Y
P	13.46	US0042	SIDESWIPE-SAME DIRECTION	1331	2014	8	29	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	N	N	N	N	N	N	N	N	N
P	13.46	US0042	ANGLE	1902	2016	10	5	STRAIGHT & LEVEL	DRY	2	CLEAR	S	N	N	N	Y	N	N	N	N	N	N	N
P	13.466	US0042	SIDESWIPE-SAME DIRECTION	1126	2015	12	25	STRAIGHT & LEVEL	WET	2	RAINING	E	E	N	N	N	N	N	N	N	N	N	N
C	13.469	US0042	REAR END	1041	2017	9	1	STRAIGHT & LEVEL	WET	2	RAINING	E	E	N	N	N	N	N	N	N	N	N	N
P	13.472	US0042	REAR END	2118	2014	6	5	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	Y	N	Y	N	N	N	N	N	N	Y
P	13.473	US0042	REAR END	1100	2014	10	29	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	N	N	N	N	N	N	N	N	N
P	13.473	US0042	REAR END	1231	2014	4	8	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	13.474	US0042	SIDESWIPE-SAME DIRECTION	1620	2017	1	5	STRAIGHT & LEVEL	WET	2	SNOWING	E	E	N	N	N	N	N	N	N	N	N	N
P	13.474	US0042	SIDESWIPE-SAME DIRECTION	2013	2015	11	27	STRAIGHT & LEVEL	WET	2	RAINING	E	E	N	N	Y	N	N	N	N	N	N	Y
P	13.474	US0042	REAR END	1300	2018	6	26	STRAIGHT & LEVEL	DRY	2	CLOUDY	E	E	N	N	Y	N	N	N	N	N	N	N
P	13.474	US0042	REAR END	1257	2018	7	19	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	Y	N	Y	N	N	N	N	N	N	N
P	13.474	US0042	SIDESWIPE-SAME DIRECTION	1715	2015	12	26	STRAIGHT & LEVEL	WET	2	RAINING	E	E	N	N	Y	N	N	N	N	N	N	Y
P	13.475	US0042	BACKING	1815	2015	9	14	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	13.476	US0042	ANGLE	653	2015	4	16	STRAIGHT & LEVEL	WET	2	CLOUDY	E	E	N	N	N	N	N	N	N	N	N	N
P	13.477	US0042	REAR END	1731	2017	12	20	STRAIGHT & LEVEL	DRY	2	CLOUDY	E	E	Y	N	N	N	N	N	N	N	N	Y
P	13.477	US0042	SIDESWIPE-SAME DIRECTION	1822	2016	5	1	STRAIGHT & LEVEL	WET	2	RAINING	W	W	N	N	N	N	N	N	N	N	N	N
P	13.478	US0042	REAR END	1605	2014	10	8	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	13.478	US0042	REAR END	2030	2015	12	23	STRAIGHT & HILLCREST	WET	2	RAINING	S	S	N	N	Y	N	N	N	N	N	N	Y
P	13.478	US0042	SIDESWIPE-SAME DIRECTION	1905	2015	10	24	STRAIGHT & LEVEL	WET	2	RAINING	E	E	N	N	Y	N	N	N	N	N	N	Y
P	13.478	US0042	REAR END	1638	2016	2	29	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	13.478	US 42	OPPOSING LEFT TURN	1740	2014	9	5	STRAIGHT & LEVEL	DRY	2	CLOUDY	S	E	N	N	Y	N	N	N	N	N	N	N
C	13.479	US0042	REAR END	2001	2014	7	16	STRAIGHT & LEVEL	DRY	7	CLOUDY	E	E	N	N	N	N	N	N	N	N	N	N
P	13.48	US0042	ANGLE	654	2018	5	23	CURVE & LEVEL	DRY	3	CLEAR	E	E	Y	N	Y	N	N	N	N	N	N	N
P	13.48	US0042	REAR END	1129	2018	12	20	STRAIGHT & LEVEL	WET	2	RAINING	W	W	N	N	N	N	N	N	N	N	N	N
P	13.482	US0042	SIDESWIPE-SAME DIRECTION	1559	2014	4	27	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	Y	N	N	N	N	N	N	N	N	N
B	13.483	US0042	SINGLE VEHICLE	1055	2014	7	1	STRAIGHT & LEVEL	DRY	2	CLEAR		E	N	N	N	N	N	N	Y	N	N	N
P	13.483	US0042	REAR END	1111	2015	2	24	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	13.483	US0042	REAR END	1519	2014	11	10	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	Y	N	Y	N	N	N	N	N	N	N
P	13.484	US0042	REAR END	1450	2016	9	19	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	13.485	US0042	REAR END	1204	2017	11	11	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	N	N	N	N	N	N	N	N
P	13.485	US0042	REAR END	1344	2018	5	6	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N

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SEVERITY	MILEPOINT DERIVED	RDWY	MANNERCOLL	CTIME	CYEAR	CMONTH	CDAY	RDWY CHAR	RDWY COND	UNITS INVOLVED	WEATHER	U1_DIR	U2_DIR	AGGO_HF_IND	ALCOHOL_HF_IND	DISTRACT	DROWSY_HF_IND	DRUG_HF_IND	SPEED_HF_IND	PEDESTRIAN_IND	BICYCLE_IND	DEER_IND	NIGHT_IND
P	13.485	US0042	REAR END	1130	2017	8	29	STRAIGHT & LEVEL	DRY	2	CLOUDY	E	E	N	N	Y	N	N	N	N	N	N	N
P	13.485	US0042	OPPOSING LEFT TURN	1220	2018	4	23	STRAIGHT & LEVEL	WET	2	RAINING	N	W	Y	N	Y	N	N	N	N	N	N	N
P	13.486	US0042	REAR END	1740	2018	12	9	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	N	N	N	N	N	N	N	Y
P	13.486	US0042	SIDESWIPE-SAME DIRECTION	1411	2014	4	16	CURVE & HILLCREST	DRY	2	CLEAR	E	E	Y	N	Y	N	N	N	N	N	N	N
P	13.487	US0042	REAR END	1015	2016	3	29	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	13.487	US0042	SINGLE VEHICLE	343	2014	7	26	STRAIGHT & LEVEL	DRY	1	CLOUDY	E		N	N	N	N	N	N	N	N	N	Y
P	13.487	US0042	SIDESWIPE-SAME DIRECTION	842	2016	7	11	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	N	N	N	N	N	N	N	N
P	13.487	US0042	SIDESWIPE-SAME DIRECTION	704	2016	7	14	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	Y	N	Y	N	N	N	N	N	N	N
P	13.487	US0042	REAR END	1535	2015	11	21	STRAIGHT & LEVEL	WET	2	RAINING	N	N	N	N	Y	N	N	N	N	N	N	N
P	13.487	US42	REAR END	1716	2015	5	18	STRAIGHT & LEVEL	WET	3	RAINING	W	W	N	N	Y	N	N	N	N	N	N	N
P	13.487	US0042	REAR END	1438	2018	3	23	STRAIGHT & LEVEL	DRY	2	CLEAR	W		N	N	Y	N	N	N	N	N	N	N
P	13.487	US0042	ANGLE	718	2014	10	27	STRAIGHT & LEVEL	DRY	2	CLEAR	E	N	Y	N	Y	N	N	N	N	N	N	Y
P	13.488	US0042	ANGLE	125	2017	4	12	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	Y	N	N	N	N	N	N	N	Y
P	13.488	US0042	REAR END	1537	2015	11	4	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	Y	N	Y	N	N	N	N	N	N	N
P	13.488	US0042	REAR END	1700	2014	2	3	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	13.488	US0042	ANGLE	1133	2014	1	3	STRAIGHT & LEVEL	WET	2	CLEAR	N	W	Y	N	N	N	N	N	N	N	N	N
P	13.488	US0042	REAR END	1512	2018	12	1	STRAIGHT & LEVEL	WET	2	RAINING	W	W	N	N	Y	N	N	N	N	N	N	N
P	13.488	US0042	SIDESWIPE-SAME DIRECTION	1443	2017	5	25	STRAIGHT & LEVEL	WET	2	RAINING	E	E	Y	N	N	N	N	N	N	N	N	N
P	13.489	US0042	SIDESWIPE-SAME DIRECTION	900	2017	10	18	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	13.489	US0042	OPPOSING LEFT TURN	1515	2017	5	24	STRAIGHT & LEVEL	WET	2	RAINING	N	W	Y	N	N	N	N	N	N	N	N	N
B	13.489	US0042	ANGLE	621	2017	11	5	STRAIGHT & LEVEL	DRY	2	CLEAR	E	N	N	N	Y	N	N	N	N	N	N	Y
C	13.489	US0042	REAR END	1559	2014	6	30	STRAIGHT & LEVEL	DRY	2	CLEAR		W	N	N	Y	N	Y	N	N	N	N	N
P	13.489	US0042	REAR END	1213	2017	7	18	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	Y	N	Y	N	N	N	N	N	N	N
P	13.489	US0042	ANGLE	2237	2018	2	7	STRAIGHT & LEVEL	DRY	2	CLOUDY	W	S	N	N	N	N	N	N	N	N	N	Y
P	13.489	US0042	ANGLE	2213	2018	7	21	CURVE & LEVEL	WET	2	RAINING	S	E	N	N	Y	N	N	N	N	N	N	Y
P	13.489	US0042	SIDESWIPE-SAME DIRECTION	1130	2018	12	1	STRAIGHT & LEVEL	WET	2	RAINING	E	E	N	N	Y	N	N	N	N	N	N	N
C	13.49	US0042	SINGLE VEHICLE	1442	2017	9	6	STRAIGHT & LEVEL	DRY	2	CLEAR	E		N	Y	N	N	N	N	Y	N	N	N
P	13.49	US0042	REAR END	1112	2014	4	11	STRAIGHT & LEVEL	DRY	3	CLEAR	W	W	Y	N	Y	N	N	N	N	N	N	N
P	13.49	US0042	REAR END	1027	2014	12	18	STRAIGHT & LEVEL	DRY	2	CLOUDY	W	W	N	N	Y	N	N	N	N	N	N	N
C	13.49	US0042	REAR END	1442	2017	9	6	STRAIGHT & LEVEL	DRY	5	CLEAR	W	W	N	Y	N	N	N	N	N	N	N	N
P	13.49	US0042	REAR END	1444	2016	9	16	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	Y	N	Y	N	N	N	N	N	N	N
P	13.491	US0042	REAR END	1831	2017	12	16	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	Y	Y	N	N	N	N	N	N	N	Y
P	13.492	US0042	REAR END	1821	2015	3	15	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
C	13.492	US0042	REAR END	1300	2016	1	24	STRAIGHT & LEVEL	DRY	3	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
C	13.493	US0042	REAR END	1331	2016	9	26	STRAIGHT & LEVEL	WET	2	CLOUDY	W	W	N	N	Y	N	N	N	N	N	N	N
P	13.495	US0042	ANGLE	1548	2016	12	9	STRAIGHT & LEVEL	DRY	2	CLOUDY	N	W	Y	N	Y	N	N	N	N	N	N	N
P	13.496	US0042	REAR END	1838	2017	10	28	STRAIGHT & LEVEL	DRY	2	CLOUDY	W	W	N	N	Y	N	N	N	N	N	N	N
C	13.496	US0042	REAR END	1350	2016	4	17	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	Y	N	N	N	N	Y	N	N	N	N
P	13.496	US0042	ANGLE	1839	2017	12	16	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	Y	N	N	N	N	N	N	N	N	Y
P	13.496	US0042	REAR END	1057	2015	2	5	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	N	N	N	N	N	N	N	N
P	13.496	US0042	SIDESWIPE-SAME DIRECTION	2216	2016	10	22	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	Y
P	13.496	US0042	REAR END	1614	2015	9	11	STRAIGHT & LEVEL	WET	2	CLOUDY	W	W	N	N	Y	N	N	N	N	N	N	N
P	13.498	US0042	ANGLE	1616	2015	5	28	STRAIGHT & LEVEL	DRY	2	CLEAR	N	W	Y	N	N	N	N	N	N	N	N	N
P	13.498	US0042	REAR END	714	2018	6	27	STRAIGHT & LEVEL	WET	2	CLOUDY	W	W	N	N	Y	N	N	N	N	N	N	N
P	13.499	US0042	REAR END	1430	2016	7	3	STRAIGHT & LEVEL	WET	2	RAINING	W	W	Y	N	Y	N	N	N	N	N	N	N
P	13.501	US0042	OPPOSING LEFT TURN	1154	2014	11	1	STRAIGHT & LEVEL	DRY	2	CLOUDY	E	W	Y	N	Y	N	N	N	N	N	N	N
P	13.501	US0042	REAR END	2128	2016	4	8	STRAIGHT & LEVEL	WET	2	RAINING	W	W	Y	N	Y	N	N	N	N	N	N	Y
P	13.503	US0042	ANGLE	1719	2015	11	19	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	13.506	US0042	REAR END	1643	2017	12	8	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	Y	N	Y	N	N	N	N	N	N	N
P	13.506	US0042	ANGLE	1552	2014	11	4	STRAIGHT & LEVEL	DRY	2	CLOUDY	N	W	Y	N	N	N	N	N	N	N	N	N

Appendix B: Crash Records

SEVERITY	MILEPOINT DERIVED	RDWY	MANNERCOLL	CTIME	CYEAR	CMONTH	CDAY	RDWY CHAR	RDWY COND	UNITS INVOLVED	WEATHER	U1_DIR	U2_DIR	AGGO_HF_IND	ALCOHOL_HF_IND	DISTRACT	DROWSY_HF_IND	DRUG_HF_IND	SPEED_HF_IND	PEDESTRIAN_IND	BICYCLE_IND	DEER_IND	NIGHT_IND
B	13.507	US0042	ANGLE	1655	2016	3	22	STRAIGHT & LEVEL	DRY	2	CLEAR	N	W	Y	N	N	N	N	N	N	N	N	N
P	13.507	US0042	REAR END	1354	2016	1	15	STRAIGHT & LEVEL	WET	2	RAINING	W	W	N	N	Y	N	N	N	N	N	N	N
P	13.507	US0042	REAR END	1213	2016	9	17	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	13.509	US0042	REAR END	1413	2016	12	28	STRAIGHT & LEVEL	DRY	3	CLEAR	W	W	N	N	N	N	N	N	N	N	N	N
P	13.509	US0042	ANGLE	1244	2017	6	30	STRAIGHT & LEVEL	DRY	2	CLOUDY	N	W	Y	N	N	N	N	N	N	N	N	N
P	13.51	US0042	SIDESWIPE-SAME DIRECTION	1059	2014	4	30	STRAIGHT & LEVEL	DRY	2	CLOUDY	W	W	N	N	Y	N	N	N	N	N	N	N
P	13.513	US0042	ANGLE	1855	2014	11	26	STRAIGHT & LEVEL	DRY	2	CLOUDY	N	W	Y	N	N	N	N	N	N	N	N	Y
P	13.514	US0042	REAR END	1604	2017	11	8	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	13.514	US0042	REAR END	844	2014	12	30	STRAIGHT & LEVEL	DRY	2	CLEAR		W	N	N	N	N	N	N	N	N	N	N
P	13.515	US0042	ANGLE	1532	2017	3	3	STRAIGHT & LEVEL	DRY	2	CLEAR	N	S	Y	N	N	N	N	N	N	N	N	N
P	13.516	US0042	OPPOSING LEFT TURN	1435	2016	12	29	STRAIGHT & LEVEL	DRY	2	CLEAR	N	W	Y	N	Y	N	N	N	N	N	N	N
P	13.516	US0042	REAR END	1550	2017	5	19	STRAIGHT & LEVEL	WET	2	RAINING	W	W	Y	N	N	N	N	N	N	N	N	N
P	13.517	US0042	SIDESWIPE-SAME DIRECTION	2035	2014	6	29	STRAIGHT & GRADE	DRY	2	CLOUDY	W	W	Y	N	N	N	N	N	N	N	N	N
P	13.522	US0042	ANGLE	1012	2018	4	23	STRAIGHT & LEVEL	WET	2	RAINING	N	W	Y	N	N	N	N	N	N	N	N	N
P	13.523	US0042	REAR END	1552	2016	8	22	STRAIGHT & LEVEL	DRY	3	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	13.524	US0042	REAR END	1422	2015	8	26	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	13.525	US0042	ANGLE	1243	2014	9	23	STRAIGHT & LEVEL	DRY	2	CLEAR	N	W	N	N	Y	N	N	N	N	N	N	N
P	13.528	US0042	SIDESWIPE-SAME DIRECTION	745	2017	3	7	STRAIGHT & LEVEL	WET	2	RAINING	E	E	N	N	Y	N	N	N	N	N	N	N
P	13.53	US0042	REAR END	1527	2014	7	10	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	13.531	US0042	ANGLE	1614	2016	1	18	STRAIGHT & LEVEL	DRY	2	CLEAR	E	W	N	N	N	N	N	N	N	N	N	N
P	13.531	US0042	REAR END	1303	2018	1	25	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	13.533	US0042	REAR END	949	2014	6	12	STRAIGHT & LEVEL	DRY	2	CLOUDY	W	W	N	N	Y	N	N	N	N	N	N	N
P	13.534	US0042	REAR END	730	2016	8	23	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	13.535	US0042	REAR END	1610	2017	12	6	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
C	13.535	US0042	REAR END	1152	2014	1	10	STRAIGHT & LEVEL	WET	3	CLOUDY	W	W	N	N	N	N	N	N	N	N	N	N
P	13.537	US0042	OPPOSING LEFT TURN	1342	2014	5	3	STRAIGHT & LEVEL	DRY	2	CLEAR	E	W	N	N	N	N	N	N	N	N	N	N
P	13.539	US0042	ANGLE	1558	2015	11	10	STRAIGHT & LEVEL	DRY	2	CLEAR	N	W	Y	N	N	N	N	N	N	N	N	N
C	13.54	US0042	REAR END	1757	2016	7	18	STRAIGHT & LEVEL	DRY	4	CLEAR	E	E	Y	N	Y	N	N	N	N	N	N	N
P	13.541	US0042	REAR END	1758	2015	11	19	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	Y
P	13.548	US0042	REAR END	1440	2016	10	12	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	1.520	KY0237	SINGLE VEHICLE	1755	2016	2	23	STRAIGHT & LEVEL	DRY	1	CLEAR	S		N	N	N	N	N	N	N	N	Y	N
P	1.581	KY0237	REAR END	830	2016	11	8	STRAIGHT & LEVEL	DRY	2	CLEAR	S	E	N	N	Y	N	N	N	N	N	N	N
P	1.581	KY0237	SINGLE VEHICLE	1602	2016	2	19	STRAIGHT & LEVEL	DRY	1	CLEAR	N		N	N	Y	N	N	N	N	N	N	N
P	1.581	KY0237	SIDESWIPE-SAME DIRECTION	1103	2015	8	28	CURVE & GRADE	DRY	2	CLEAR	E	E	N	N	N	N	N	N	N	N	N	N
P	1.582	KY0237	BACKING	2019	2014	2	19	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	Y
P	1.582	KY0237	REAR END	1321	2015	3	14	STRAIGHT & HILLCREST	DRY	2	CLOUDY	S	S	Y	N	Y	N	N	N	N	N	N	N
P	1.582	KY0237	REAR END	1839	2014	4	12	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	N	N	N	N	N	N	N	N	N	N
P	1.583	KY0237	REAR END	1528	2015	3	5	STRAIGHT & LEVEL	WET	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	N
P	1.585	KY0237	SIDESWIPE-SAME DIRECTION	1718	2017	9	13	CURVE & GRADE	WET	2	CLOUDY	S	S	Y	N	N	N	N	N	N	N	N	N
P	1.585	KY0237	REAR END	1745	2014	4	1	CURVE & HILLCREST	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	N
P	1.588	KY0237	ANGLE	1122	2014	9	2	STRAIGHT & GRADE	WET	2	CLOUDY	S	S	N	N	Y	N	N	Y	N	N	N	N
P	1.590	KY0237	SIDESWIPE-SAME DIRECTION	2136	2014	2	27	STRAIGHT & LEVEL	DRY	2	CLOUDY	W	W	N	Y	N	N	N	N	N	N	N	Y
P	1.591	KY0237	SIDESWIPE-SAME DIRECTION	1551	2016	3	15	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	Y	N	N	N	N	N	N	N	N	N
B	1.595	KY0237	SINGLE VEHICLE	655	2017	3	1	STRAIGHT & LEVEL	WET	1	OTHER	N		N	N	N	N	N	N	N	N	N	Y
P	1.595	KY0237	REAR END	2024	2014	10	19	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	Y
P	1.595	KY0237	SIDESWIPE-SAME DIRECTION	1627	2015	2	20	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	Y	N	Y	N	N	N	N	N	N	N
P	1.597	KY0237	REAR END	1517	2017	10	13	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	Y	N	Y	N	N	N	N	N	N	N
P	1.597	KY0237	REAR END	2200	2016	8	20	STRAIGHT & LEVEL	DRY	2	CLEAR		E	N	N	N	N	N	N	N	N	N	Y
P	1.598	KY0237	REAR END	749	2016	6	3	STRAIGHT & LEVEL	DRY	2	CLOUDY	S	S	N	N	Y	N	N	N	N	N	N	N
P	1.599	KY0237	REAR END	1350	2018	5	30	STRAIGHT & LEVEL	WET	2	RAINING	S	S	N	N	Y	N	N	N	N	N	N	N
P	1.599	KY0237	SIDESWIPE-SAME DIRECTION	935	2016	1	24	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	N	N	N	N	N	N	N	N	N	N

Appendix B: Crash Records

SEVERITY	MILEPOINT DERIVED	RDWY	MANNERCOLL	CTIME	CYEAR	CMONTH	CDAY	RDWY CHAR	RDWY COND	UNITS INVOLVED	WEATHER	U1_DIR	U2_DIR	AGGO_HF_IND	ALCOHOL_HF_IND	DISTRACT	DROWSY_HF_IND	DRUG_HF_IND	SPEED_HF_IND	PEDESTRIAN_IND	BICYCLE_IND	DEER_IND	NIGHT_IND
P	1.600	KY0237	REAR END	2054	2016	4	30	STRAIGHT & LEVEL	WET	2	RAINING	S	E	N	N	Y	N	N	N	N	N	N	Y
P	1.602	KY0237	REAR END	2121	2016	8	6	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	N	Y	Y	N	N	N	N	N	N	Y
P	1.615	KY0237	REAR END	1156	2017	9	18	STRAIGHT & LEVEL	DRY	2	CLOUDY	S	S	Y	N	Y	N	N	N	N	N	N	N
P	1.622	KY0237	REAR END	1219	2017	12	13	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	N
P	1.628	KY0237	REAR END	1701	2015	2	5	STRAIGHT & GRADE	DRY	2	CLEAR	W	S	Y	N	Y	N	N	N	N	N	N	N
P	1.652	KY0237	SIDESWIPE-SAME DIRECTION	1111	2014	11	28	STRAIGHT & GRADE	DRY	2	CLOUDY	S	S	N	N	N	N	N	N	N	N	N	N
P	1.687	KY0237	SINGLE VEHICLE	1948	2014	4	20	STRAIGHT & LEVEL	DRY	1	CLEAR	S		N	Y	N	N	N	N	N	N	N	N
P	1.688	KY0237	ANGLE	1923	2016	1	29	STRAIGHT & LEVEL	DRY	2	CLEAR	S	E	N	N	N	N	N	N	N	N	N	Y
P	1.688	KY0237	SIDESWIPE-SAME DIRECTION	1747	2015	11	9	STRAIGHT & LEVEL	WET	2	CLOUDY	S	S	Y	N	N	N	N	N	N	N	N	Y
C	1.704	KY0237	ANGLE	1120	2018	7	6	STRAIGHT & GRADE	DRY	2	CLOUDY	S	S	N	N	N	N	N	N	N	N	N	N
P	1.764	KY0237	SIDESWIPE-SAME DIRECTION	1106	2016	12	31	STRAIGHT & LEVEL	DRY	2	CLOUDY	S	S	N	N	Y	N	N	N	N	N	N	N
P	1.818	KY0237	SINGLE VEHICLE	1051	2015	7	26	STRAIGHT & LEVEL	DRY	1	CLEAR	E		N	N	N	N	N	N	N	N	N	N
P	2.034	KY0237	SIDESWIPE-OPPOSITE DIRECTION	1040	2015	12	22	STRAIGHT & LEVEL	WET	2	CLEAR	N	S	N	N	Y	N	N	N	N	N	N	N
P	2.082	KY0237	ANGLE	2130	2014	4	20	STRAIGHT & LEVEL	DRY	2	CLEAR	E	N	Y	N	N	N	N	N	N	N	N	Y
P	2.083	KY0237	ANGLE	1907	2016	12	6	CURVE & LEVEL	DRY	2	CLOUDY	E	S	N	Y	Y	N	N	N	N	N	N	Y
A	2.083	KY0237	OPPOSING LEFT TURN	1756	2015	4	30	STRAIGHT & GRADE	DRY	2	CLEAR	N	S	N	N	N	N	N	N	N	N	N	N
P	2.085	KY0237	REAR END	2300	2014	6	17	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	Y
B	2.093	KY0237	ANGLE	1701	2018	5	14	STRAIGHT & LEVEL	DRY	2	CLEAR	W	N	Y	N	N	N	N	N	N	N	N	N
P	2.098	KY0237	SIDESWIPE-SAME DIRECTION	1215	2016	9	18	STRAIGHT & GRADE	DRY	2	CLEAR	S	S	Y	N	N	N	N	N	N	N	N	N
P	2.147	KY0237	SIDESWIPE-SAME DIRECTION	1155	2015	11	21	STRAIGHT & HILLCREST	DRY	3	CLEAR	N	N	N	N	Y	N	N	N	N	N	N	N
A	2.187	KY0237	SINGLE VEHICLE	1034	2017	8	11	CURVE & HILLCREST	DRY	1	CLEAR	N		Y	N	Y	N	N	N	N	N	N	N
P	2.189	KY0237	SIDESWIPE-OPPOSITE DIRECTION	1623	2017	11	14	STRAIGHT & LEVEL	DRY	2	CLEAR	N	S	N	N	N	N	N	N	N	N	N	N
P	2.198	KY0237	SINGLE VEHICLE	2132	2016	6	1	CURVE & GRADE	WET	1	CLEAR	W		N	N	N	N	N	N	N	N	N	Y
P	2.220	KY0237	SIDESWIPE-SAME DIRECTION	1257	2018	8	14	STRAIGHT & GRADE	DRY	2	CLEAR		W	N	N	N	N	N	N	N	N	N	N
P	2.256	KY0237	ANGLE	725	2018	3	8	STRAIGHT & GRADE	ICE	2	SNOWING	W	S	N	N	N	N	N	N	N	N	N	N
P	2.265	KY0237	REAR END	1900	2015	5	4	CURVE & GRADE	DRY	3	CLEAR	W	W	Y	N	N	N	N	N	N	N	N	N
P	2.266	KY0237	REAR END	1600	2014	2	7	STRAIGHT & LEVEL	DRY	2	CLEAR	N	N	N	N	N	N	N	N	N	N	N	N
B	2.291	KY0237	REAR END	1443	2014	12	1	STRAIGHT & HILLCREST	WET	2	RAINING	N	N	N	N	Y	N	N	N	N	N	N	N
P	2.311	KY0237	SINGLE VEHICLE	1935	2018	11	10	STRAIGHT & LEVEL	DRY	1	CLEAR	S		N	N	N	N	N	N	N	N	Y	Y
B	2.333	KY0237	SINGLE VEHICLE	37	2018	11	2	CURVE & LEVEL	WET	1	CLOUDY	N		N	N	N	N	N	N	N	N	N	Y
B	2.362	KY0237	SINGLE VEHICLE	325	2016	11	27	CURVE & GRADE	DRY	1	CLEAR	N		N	N	N	N	N	N	N	N	N	Y
P	2.385	KY0237	SINGLE VEHICLE	5	2015	6	29	CURVE & GRADE	DRY	1	CLEAR	S		N	N	N	N	N	N	N	N	Y	Y
P	2.490	KY0237	SINGLE VEHICLE	1828	2015	3	15	CURVE & HILLCREST	DRY	1	CLEAR	N		N	N	Y	N	N	N	N	N	N	N
C	2.755	KY0842	REAR END	826	2016	1	14	STRAIGHT & GRADE	DRY	5	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	N
P	2.758	KY0842	REAR END	1507	2016	8	1	STRAIGHT & LEVEL	WET	2	CLOUDY	S	S	N	N	Y	N	N	N	N	N	N	N
P	2.763	KY0842	REAR END	1608	2018	6	22	STRAIGHT & LEVEL	WET	3	RAINING	S	S	Y	N	N	N	N	N	N	N	N	N
C	2.764	KY0842	REAR END	1010	2014	6	13	STRAIGHT & GRADE	WET	2	CLOUDY	N	N	N	N	N	N	N	N	N	N	N	N
P	2.785	KY0842	ANGLE	1550	2018	10	26	STRAIGHT & LEVEL	WET	3	RAINING	W	S	Y	N	N	N	N	N	N	N	N	N
P	2.790	KY0842	REAR END	1310	2018	7	3	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	Y	N	Y	N	N	N	N	N	N	N
P	2.804	KY0842	REAR END	1319	2017	7	13	STRAIGHT & LEVEL	DRY	2	CLEAR	N	N	N	N	Y	N	N	N	N	N	N	N
A	2.810	KY0842	SIDESWIPE-OPPOSITE DIRECTION	1553	2017	5	29	STRAIGHT & LEVEL	DRY	2	CLEAR	S	N	N	N	Y	N	N	N	N	N	N	N
P	2.812	KY0842	REAR END	1706	2014	4	17	CURVE & GRADE	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	N
P	2.815	KY0842	SINGLE VEHICLE	359	2014	12	27	CURVE & GRADE	DRY	1	CLOUDY	S		N	N	N	N	N	N	N	N	N	Y
P	2.822	KY0842	REAR END	1440	2017	11	28	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	Y	N	N	N	N	N	N	N	N	N
P	2.837	KY0842	REAR END	1136	2017	5	4	STRAIGHT & LEVEL	WET	2	RAINING	S	S	N	N	N	N	N	N	N	N	N	N
P	2.839	KY0842	REAR END	1131	2017	2	19	STRAIGHT & LEVEL	DRY	2	CLOUDY	E	E	N	N	Y	N	N	N	N	N	N	N
P	2.843	KY0842	REAR END	1322	2018	4	7	STRAIGHT & LEVEL	DRY	2	CLEAR	N	N	N	N	Y	N	N	N	N	N	N	N
P	2.843	KY0842	REAR END	1532	2018	10	19	STRAIGHT & LEVEL	DRY	2	CLEAR	N	N	N	N	Y	N	N	N	N	N	N	N
P	2.845	KY0842	BACKING	1248	2018	10	17	STRAIGHT & LEVEL	DRY	2	CLEAR	S	N	N	N	N	N	N	N	N	N	N	N
P	2.847	KY0842	BACKING	2120	2017	10	7	STRAIGHT & LEVEL	DRY	2	CLOUDY	N	N	N	N	Y	N	N	N	N	N	N	Y
P	2.850	KY0842	REAR END	705	2017	9	19	STRAIGHT & LEVEL	DRY	2	CLOUDY	N	N	Y	N	Y	N	N	N	N	N	N	N
P	2.851	KY0842	SINGLE VEHICLE	42	2014	2	6	CURVE & GRADE	SNOW/SL	1	BLOWING	N		N	N	N	N	N	Y	N	N	N	Y
P	2.852	KY0842	REAR END	1418	2016	10	1	STRAIGHT & LEVEL	DRY	2	CLOUDY	N	N	N	N	Y	N	N	N	N	N	N	N

Appendix B: Crash Records

SEVERITY	MILEPOINT DERIVED	RDWY	MANNERCOLL	CTIME	CYEAR	CMONTH	CDAY	RDWY CHAR	RDWY COND	UNITS INVOLVED	WEATHER	U1_DIR	U2_DIR	AGGO_HF_IND	ALCOHOL_HF_IND	DISTRACT	DROWSY_HF_IND	DRUG_HF_IND	SPEED_HF_IND	PEDESTRIAN_IND	BICYCLE_IND	DEER_IND	NIGHT_IND
P	2.853	KY0842	BACKING	2033	2018	11	12	STRAIGHT & LEVEL	WET	2	RAINING	N	N	N	N	Y	N	N	N	N	N	N	Y
P	2.855	KY0842	SINGLE VEHICLE	937	2014	12	20	CURVE & GRADE	ICE	1	CLOUDY	S		N	N	N	N	N	Y	N	N	N	N
P	2.855	KY0842	SIDESWIPE-SAME DIRECTION	1823	2018	11	20	STRAIGHT & LEVEL	DRY	2	CLOUDY	N	N	N	N	N	N	N	N	N	N	N	Y
P	2.855	KY0842	REAR END	710	2017	9	7	STRAIGHT & LEVEL	DRY	2	CLEAR		N	N	N	N	N	N	N	N	N	N	N
P	2.855	KY0842	REAR END	1745	2018	5	17	STRAIGHT & LEVEL	DRY	2	CLOUDY	N	N	Y	N	N	N	N	N	N	N	N	N
P	2.856	KY0842	ANGLE	1453	2017	1	14	STRAIGHT & GRADE	WET	2	RAINING	E	S	Y	N	N	N	N	N	N	N	N	N
P	2.856	KY0842	BACKING	1637	2017	4	19	STRAIGHT & LEVEL	DRY	2	CLEAR	N	S	N	N	N	N	N	N	N	N	N	N
P	2.857	KY0842	REAR END	1224	2017	7	27	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	N
P	2.857	KY0842	REAR END	1412	2017	5	30	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	2.858	KY0842	REAR END	1808	2018	12	30	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	Y
P	2.859	KY0842	SIDESWIPE-SAME DIRECTION	1522	2018	11	19	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	Y	N	N	N	N	N	N	N	N	N
P	2.861	KY0842	REAR END	1315	2018	12	23	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	N
P	2.861	KY0842	REAR END	1931	2017	4	28	STRAIGHT & LEVEL	DRY	2	CLOUDY	S	S	N	N	Y	N	N	N	N	N	N	N
P	2.864	KY0842	ANGLE	1418	2018	2	4	STRAIGHT & LEVEL	DRY	2	CLEAR	E	S	Y	N	N	N	N	N	N	N	N	N
P	2.865	KY0842	ANGLE	1718	2017	2	6	STRAIGHT & LEVEL	DRY	2	CLOUDY	W	S	Y	N	N	N	N	N	N	N	N	N
P	2.867	KY0842	ANGLE	1217	2017	6	30	STRAIGHT & LEVEL	DRY	2	CLOUDY	E	N	Y	N	Y	N	N	N	N	N	N	N
P	2.868	KY0842	OPPOSING LEFT TURN	1544	2017	7	12	STRAIGHT & LEVEL	DRY	2	CLEAR	W	S	Y	N	N	N	N	N	N	N	N	N
P	2.872	KY0842	SIDESWIPE-SAME DIRECTION	1118	2018	6	30	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	Y	N	Y	N	N	N	N	N	N	N
P	2.873	KY0842	ANGLE	1423	2017	11	27	STRAIGHT & GRADE	DRY	2	CLEAR	E	N	N	N	Y	N	N	N	N	N	N	N
P	2.873	KY0842	REAR END	1249	2018	8	10	STRAIGHT & LEVEL	DRY	2	CLEAR	N	N	Y	N	N	N	N	N	N	N	N	N
P	2.874	KY0842	SIDESWIPE-SAME DIRECTION	1258	2017	4	13	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	Y	N	N	N	N	N	N	N	N	N
P	2.878	KY0842	ANGLE	2046	2018	10	12	STRAIGHT & LEVEL	WET	2	RAINING	N	N	N	N	Y	N	N	N	N	N	N	Y
P	2.879	KY0842	REAR END	1635	2017	7	14	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	N	N	N	N	N	N	N	N	N	N
P	2.880	KY0842	ANGLE	1901	2016	11	4	STRAIGHT & LEVEL	DRY	2	CLOUDY	W	S	N	N	Y	N	N	N	N	N	N	Y
C	2.881	KY0842	ANGLE	1637	2017	2	24	STRAIGHT & LEVEL	DRY	2	CLEAR	E	S	Y	N	N	N	N	N	N	N	N	N
P	2.883	KY0842	REAR END	1730	2017	4	25	STRAIGHT & GRADE	DRY	2	CLEAR	N	N	Y	N	N	N	N	N	N	N	N	N
P	2.883	KY0842	SIDESWIPE-SAME DIRECTION	1529	2017	5	29	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	2.886	KY0842	REAR END	736	2016	8	19	STRAIGHT & GRADE	DRY	2	CLOUDY	N	N	Y	N	Y	N	N	N	N	N	N	N
P	2.889	KY0842	ANGLE	1717	2018	6	28	STRAIGHT & GRADE	DRY	2	CLEAR	E	S	Y	N	N	N	N	N	N	N	N	N
P	2.892	KY0842	ANGLE	1638	2017	7	24	STRAIGHT & HILLCREST	DRY	2	CLEAR	E	S	Y	N	N	N	N	N	N	N	N	N
P	2.895	KY0842	BACKING	7	2018	1	6	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	Y	N	Y	N	N	N	N	N	N	Y
P	2.895	KY0842	SINGLE VEHICLE	1850	2015	7	4	CURVE & GRADE	DRY	1	CLEAR	S		N	N	Y	N	N	N	N	N	N	N
P	2.896	KY0842	ANGLE	1804	2016	12	28	STRAIGHT & LEVEL	DRY	2	CLEAR	W	N	Y	N	N	N	N	N	N	N	N	Y
P	2.897	KY0842	SIDESWIPE-SAME DIRECTION	1840	2017	11	7	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	Y
P	2.905	KY0842	ANGLE	1418	2018	9	5	STRAIGHT & LEVEL	DRY	3	CLEAR	E	S	Y	N	N	N	N	N	N	N	N	N
P	2.914	KY0842	SIDESWIPE-OPPOSITE DIRECTION	1518	2017	5	6	CURVE & HILLCREST	DRY	2	CLEAR	S	N	N	N	N	N	N	N	N	N	N	N
P	2.917	KY0842	SIDESWIPE-SAME DIRECTION	1740	2017	4	18	STRAIGHT & GRADE	DRY	2	CLEAR	S	S	N	N	N	N	N	N	N	N	N	N
P	2.925	KY0842	SINGLE VEHICLE	1704	2014	1	16	CURVE & HILLCREST	SNOW/SL	1	SNOWING	N		N	N	N	N	N	Y	N	N	N	N
P	2.927	KY0842	REAR END	754	2018	11	11	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	N	N	N	N	N	N	N	N	N	N
P	2.935	KY0842	ANGLE	1548	2017	11	21	STRAIGHT & GRADE	DRY	2	CLEAR	E	S	Y	N	Y	N	N	N	N	N	N	N
P	2.939	KY0842	REAR END	1402	2017	8	9	STRAIGHT & GRADE	DRY	3	CLEAR	S	S	N	N	N	N	N	N	N	N	N	N
P	2.939	KY0842	OPPOSING LEFT TURN	1609	2018	5	10	STRAIGHT & LEVEL	DRY	2	CLEAR	N	S	N	N	N	N	N	N	N	N	N	N
P	2.967	KY0842	ANGLE	1747	2018	8	11	STRAIGHT & GRADE	WET	2	RAINING	S	S	N	N	Y	N	N	N	N	N	N	N
P	2.972	KY0842	SIDESWIPE-OPPOSITE DIRECTION	2000	2014	3	2	CURVE & GRADE	SNOW/SL	2	BLOWING	E	W	N	N	N	N	N	Y	N	N	N	Y
P	2.994	KY0842	SIDESWIPE-SAME DIRECTION	1755	2014	2	14	STRAIGHT & GRADE	SNOW/SL	2	SNOWING	S	S	Y	N	N	N	N	Y	N	N	N	N
P	2.996	KY0842	REAR END	1733	2016	10	21	STRAIGHT & LEVEL	DRY	2	CLOUDY	S	S	Y	N	N	N	N	N	N	N	N	N
C	2.997	KY0842	SINGLE VEHICLE	1550	2016	7	22	STRAIGHT & LEVEL	DRY	2	CLOUDY		N	N	N	N	N	N	N	Y	N	N	N
P	3.005	KY0842	REAR END	1609	2018	5	12	STRAIGHT & GRADE	DRY	2	CLEAR	S	S	N	N	N	N	N	N	N	N	N	N
P	3.005	KY0842	ANGLE	1832	2016	11	18	CURVE & GRADE	DRY	2	CLEAR	W	N	N	N	Y	N	N	N	N	N	N	Y
P	3.009	KY0842	REAR END	755	2017	11	28	STRAIGHT & GRADE	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	N
A	3.025	KY0842	REAR END	1054	2017	7	25	CURVE & GRADE	DRY	2	CLEAR	N	N	N	N	Y	N	N	N	N	N	N	N
P	3.045	KY0842	ANGLE	1700	2017	6	15	CURVE & HILLCREST	DRY	2	CLEAR	S	E	Y	N	N	N	N	N	N	N	N	N
P	3.060	KY0842	REAR END	1213	2018	10	5	STRAIGHT & GRADE	DRY	2	CLEAR	S	S	Y	N	Y	N	N	N	N	N	N	N

Appendix B: Crash Records

SEVERITY	MILEPOINT DERIVED	RDWY	MANNERCOLL	CTIME	CYEAR	CMONTH	CDAY	RDWY CHAR	RDWY COND	UNITS INVOLVED	WEATHER	U1_DIR	U2_DIR	AGGO_HF_IND	ALCOHOL_HF_IND	DISTRACT	DROWSY_HF_IND	DRUG_HF_IND	SPEED_HF_IND	PEDESTRIAN_IND	BICYCLE_IND	DEER_IND	NIGHT_IND
P	3.073	KY0842	HEAD ON	1755	2016	12	22	STRAIGHT & LEVEL	DRY	2	CLEAR	S	N	Y	N	Y	N	N	N	N	N	N	Y
P	3.082	KY0842	REAR END	743	2016	6	29	STRAIGHT & GRADE	DRY	2	CLEAR	N	N	Y	N	Y	N	N	N	N	N	N	N
P	3.083	KY0842	SINGLE VEHICLE	228	2018	2	3	STRAIGHT & LEVEL	DRY	1	CLOUDY	S		N	Y	N	N	N	Y	N	N	N	Y
P	3.089	KY0842	REAR END	724	2017	9	14	STRAIGHT & GRADE	WET	2	CLOUDY	N	S	Y	N	Y	N	N	N	N	N	N	N
B	3.115	KY0842	ANGLE	2125	2014	12	24	STRAIGHT & GRADE	WET	2	RAINING	N	S	N	N	N	N	N	N	N	N	N	Y
C	3.199	KY0842	REAR END	1546	2014	12	5	STRAIGHT & GRADE	WET	2	FOG WITH	N	N	N	N	N	N	N	N	N	N	N	N
P	3.211	KY0842	REAR END	1619	2016	6	20	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	N
P	3.227	KY0842	SINGLE VEHICLE	2250	2018	11	26	CURVE & GRADE	ICE	1	FOG/SMO	N		N	N	N	N	N	N	N	N	N	Y
P	3.273	KY0842	ANGLE	1825	2016	11	11	STRAIGHT & GRADE	DRY	2	CLEAR	N	N	N	N	Y	N	N	N	N	N	N	Y
P	3.393	KY0842	REAR END	1737	2018	10	19	STRAIGHT & LEVEL	WET	2	RAINING	S	S	N	N	Y	N	N	N	N	N	N	N
P	3.396	KY0842	REAR END	1506	2014	11	18	STRAIGHT & GRADE	DRY	2	CLOUDY	N	N	N	N	Y	N	N	N	N	N	N	N
P	3.446	KY0842	REAR END	705	2015	3	23	STRAIGHT & LEVEL	DRY	2	CLEAR	N	N	N	N	Y	N	N	N	N	N	N	N
P	3.463	KY0842	REAR TO REAR	1654	2017	7	28	STRAIGHT & LEVEL	DRY	2	CLEAR	N	N	N	N	Y	N	N	N	N	N	N	N
C	3.477	KY0842	ANGLE	1840	2017	8	26	STRAIGHT & GRADE	DRY	2	CLEAR	S	S	Y	N	Y	N	N	N	N	N	N	N
P	3.481	KY0842	ANGLE	1128	2017	2	20	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	Y	N	N	N	N	N	N	N	N	N
A	3.488	KY0842	ANGLE	1316	2014	5	24	STRAIGHT & LEVEL	DRY	2	CLEAR	E	S	Y	N	Y	N	N	N	N	N	N	N
C	3.506	KY0842	SINGLE VEHICLE	925	2014	8	1	CURVE & LEVEL	DRY	1	CLEAR	N		N	N	N	N	N	N	N	N	N	N
P	3.649	KY0842	HEAD ON	2215	2017	7	12	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	N	N	N	N	N	N	N	N	N	Y
P	3.679	KY0842	SIDESWIPE-SAME DIRECTION	1830	2017	6	3	STRAIGHT & LEVEL	DRY	2	CLEAR	N	N	Y	N	Y	N	N	N	N	N	N	N
P	3.765	KY0842	SIDESWIPE-OPPOSITE DIRECTION	2217	2018	11	19	STRAIGHT & LEVEL	WET	2	CLOUDY	N	S	N	N	Y	N	N	N	N	N	N	Y
P	3.772	KY0842	REAR END	1625	2017	5	5	STRAIGHT & LEVEL	WET	2	CLOUDY	S	S	Y	N	Y	N	N	N	N	N	N	N
P	3.794	KY0842	SINGLE VEHICLE	412	2015	8	13	STRAIGHT & GRADE	DRY	1	CLEAR	S		N	N	N	N	N	N	N	N	N	Y
A	3.913	KY0842	SINGLE VEHICLE	2159	2018	9	16	STRAIGHT & LEVEL	DRY	1	CLEAR	N		N	N	Y	N	N	N	N	N	N	Y
P	3.922	KY0842	REAR END	1516	2014	10	12	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	N
P	3.924	KY0842	SINGLE VEHICLE	1804	2016	7	21	CURVE & LEVEL	DRY	1	CLEAR	N		N	N	N	N	Y	N	N	N	N	N
P	4.085	KY0842	REAR END	1415	2015	7	30	STRAIGHT & LEVEL	DRY	2	CLEAR	N	N	N	N	Y	N	N	N	N	N	N	N
P	4.094	KY0842	REAR END	1355	2016	3	16	STRAIGHT & LEVEL	DRY	2	CLEAR	N	N	N	N	Y	N	N	N	N	N	N	N
P	4.181	KY0842	REAR END	1840	2015	2	13	STRAIGHT & LEVEL	DRY	2	CLEAR	N	N	N	N	Y	N	N	N	N	N	N	Y
P	4.186	KY0842	REAR END	1527	2016	11	4	CURVE & GRADE	DRY	2	CLOUDY	N	N	N	N	N	N	N	N	N	N	N	N
P	4.230	KY0842	REAR END	1537	2014	2	11	STRAIGHT & LEVEL	DRY	3	CLEAR	N	N	N	N	Y	N	N	N	N	N	N	N
P	4.236	KY0842	REAR END	819	2016	2	8	CURVE & LEVEL	WET	2	RAINING	N	N	N	N	Y	N	N	N	N	N	N	N
P	4.240	KY0842	REAR END	1838	2015	10	16	STRAIGHT & GRADE	DRY	2	CLEAR	N	N	N	N	Y	N	N	N	N	N	N	N
C	4.243	KY0842	ANGLE	2325	2014	12	15	STRAIGHT & LEVEL	WET	2	CLOUDY	W	S	Y	N	Y	N	N	N	N	N	N	N
P	4.246	KY0842	REAR END	1555	2014	3	31	CURVE & HILLCREST	DRY	2	CLOUDY	S	S	N	N	Y	N	N	N	N	N	N	N
P	4.246	KY0842	REAR END	1730	2014	7	1	STRAIGHT & GRADE	DRY	2	CLEAR	S	S	Y	N	N	N	N	N	N	N	N	N
P	4.246	KY0842	REAR END	1924	2016	4	9	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	N
P	4.246	KY0842	REAR END	1517	2016	6	11	STRAIGHT & GRADE	DRY	2	CLEAR	S	S	N	N	N	N	N	N	N	N	N	N
P	4.246	KY0842	ANGLE	1931	2015	1	23	CURVE & LEVEL	DRY	2	CLEAR	E	S	Y	N	Y	N	N	N	N	N	N	Y
P	4.246	KY0842	REAR END	845	2015	1	8	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	N
P	4.246	KY0842	REAR END	1543	2014	11	28	STRAIGHT & GRADE	DRY	3	CLEAR	S	S	N	N	N	N	N	N	N	N	N	N
P	4.246	KY0842	REAR END	1431	2015	7	24	STRAIGHT & GRADE	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	N
P	4.246	KY0842	REAR END	1720	2015	3	8	CURVE & LEVEL	DRY	2	CLEAR	N	N	N	N	Y	N	N	N	N	N	N	N
P	4.246	KY0842	REAR END	1318	2015	3	27	STRAIGHT & LEVEL	DRY	2	CLEAR	N	N	N	N	Y	N	N	N	N	N	N	N
P	4.247	KY0842	REAR END	1921	2015	5	17	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	N
P	4.247	KY0842	REAR END	1316	2016	7	28	STRAIGHT & GRADE	DRY	2	CLOUDY	N	N	N	N	Y	N	N	N	N	N	N	N
P	4.247	KY0842	REAR END	1155	2014	1	14	STRAIGHT & LEVEL	DRY	3	CLEAR	N	N	N	N	Y	N	N	N	N	N	N	N
P	4.247	KY0842	ANGLE	2214	2015	10	26	STRAIGHT & LEVEL	DRY	2	CLEAR	S	W	N	N	Y	N	N	N	N	N	N	N
P	4.247	KY0842	REAR END	2128	2016	10	20	STRAIGHT & LEVEL	WET	2	RAINING	S	S	N	N	N	N	N	N	N	N	N	N
P	4.248	KY0842	OPPOSING LEFT TURN	1642	2015	6	29	STRAIGHT & LEVEL	DRY	2	CLOUDY	E	W	Y	N	N	N	N	N	N	N	N	N
P	4.248	KY0842	ANGLE	1528	2014	2	26	STRAIGHT & GRADE	DRY	2	CLEAR	E	S	Y	N	Y	N	N	N	N	N	N	N
P	4.249	KY0842	ANGLE	2030	2015	11	10	STRAIGHT & LEVEL	DRY	2	CLEAR	N	W	Y	N	N	N	N	N	N	N	N	N
P	4.250	KY0842	SIDESWIPE-OPPOSITE DIRECTION	1135	2015	9	9	CURVE & GRADE	WET	2	RAINING	E	E	N	N	Y	N	N	N	N	N	N	N
P	4.250	KY0842	REAR END	1814	2016	2	24	STRAIGHT & GRADE	WET	2	RAINING	W	W	N	N	Y	N	N	N	N	N	N	N

Appendix B: Crash Records

SEVERITY	MILEPOINT DERIVED	RDWY	MANNERCOLL	CTIME	CYEAR	CMONTH	CDAY	RDWY CHAR	RDWY COND	UNITS INVOLVED	WEATHER	U1_DIR	U2_DIR	AGGO_HF_IND	ALCOHOL_HF_IND	DISTRACT	DROWSY_HF_IND	DRUG_HF_IND	SPEED_HF_IND	PEDESTRIAN_IND	BICYCLE_IND	DEER_IND	NIGHT_IND
P	4.250	KY0842	REAR END	1646	2014	2	10	CURVE & HILLCREST	DRY	2	CLEAR	N	N	N	N	Y	N	N	N	N	N	N	N
P	4.251	KY0842	REAR END	945	2016	12	13	STRAIGHT & GRADE	WET	2	RAINING	S	S	N	N	N	N	N	Y	N	N	N	N
P	4.251	KY0842	REAR END	1933	2015	9	29	STRAIGHT & GRADE	WET	2	RAINING	S	S	N	N	N	N	N	N	N	N	N	N
P	4.252	KY0842	ANGLE	1805	2014	11	6	STRAIGHT & LEVEL	WET	2	CLOUDY	S	N	Y	N	Y	N	N	N	N	N	N	Y
P	4.253	KY0842	REAR END	1140	2016	5	21	STRAIGHT & GRADE	WET	2	RAINING		N	N	N	N	N	N	N	N	N	N	N
P	4.253	KY0842	ANGLE	1749	2015	12	21	STRAIGHT & LEVEL	WET	2	RAINING	E	N	Y	N	N	N	N	N	N	N	N	Y
P	4.253	KY0842	REAR END	1929	2014	6	7	STRAIGHT & GRADE	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	N
P	4.254	KY0842	SIDESWIPE-OPPOSITE DIRECTION	1440	2014	3	13	STRAIGHT & GRADE	DRY	2	CLEAR		N	N	N	N	N	N	N	N	N	N	N
P	4.256	KY0842	REAR END	1600	2015	6	17	STRAIGHT & GRADE	DRY	2	CLOUDY	S	S	N	N	Y	N	N	N	N	N	N	N
P	4.257	KY0842	REAR END	2121	2014	8	30	STRAIGHT & LEVEL	WET	2	RAINING	S	S	N	N	N	N	N	Y	N	N	N	Y
P	4.258	KY0842	REAR END	1650	2016	4	27	STRAIGHT & LEVEL	WET	2	CLEAR	S	S	Y	N	Y	N	N	N	N	N	N	N
P	4.259	KY0842	REAR END	1504	2015	10	27	STRAIGHT & GRADE	WET	2	RAINING	S	S	Y	N	N	N	N	N	N	N	N	N
P	4.260	KY0842	REAR END	1817	2015	12	12	STRAIGHT & GRADE	DRY	3	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	N
P	4.266	KY0842	REAR END	1439	2014	7	5	STRAIGHT & GRADE	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	N
P	4.273	KY0842	REAR TO REAR	1400	2014	6	1	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	N	N	N	N	N	N	N	N	N	N
P	4.277	KY0842	REAR END	2008	2015	11	2	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	Y
P	4.293	KY0842	REAR END	811	2016	4	12	STRAIGHT & GRADE	DRY	2	CLEAR	N	N	N	N	Y	N	N	N	N	N	N	N
P	4.298	KY0842	SINGLE VEHICLE	804	2016	11	4	STRAIGHT & LEVEL	DRY	1	CLEAR	N		N	N	N	N	N	N	N	N	Y	N
P	4.303	KY0842	REAR END	1645	2014	8	18	CURVE & GRADE	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	N
P	4.304	KY0842	SINGLE VEHICLE	750	2016	11	4	STRAIGHT & LEVEL	DRY	1	CLEAR	N		N	N	N	N	N	N	N	N	Y	N
P	4.323	KY0842	REAR END	1450	2014	10	2	STRAIGHT & GRADE	DRY	2	CLOUDY	S	S	N	N	Y	N	N	N	N	N	N	N
P	4.339	KY0842	ANGLE	1752	2015	10	19	STRAIGHT & GRADE	DRY	4	CLEAR	S	S	Y	N	Y	N	N	N	N	N	N	N
P	4.349	KY0842	REAR END	1620	2015	6	1	CURVE & GRADE	DRY	2	CLOUDY	S	S	N	N	N	N	N	N	N	N	N	N
P	4.368	KY0842	REAR END	1453	2018	3	8	STRAIGHT & LEVEL	DRY	2	CLOUDY	N	N	N	N	Y	N	N	N	N	N	N	N
B	4.368	KY0842	ANGLE	840	2018	9	19	CURVE & LEVEL	DRY	2	CLEAR	W	S	N	N	Y	N	N	N	N	N	N	N
P	4.368	KY0842	REAR END	655	2017	11	23	CURVE & LEVEL	DRY	2	CLEAR	N	N	Y	N	Y	N	N	N	N	N	N	N
P	4.374	KY0842	REAR END	835	2016	3	2	STRAIGHT & LEVEL	DRY	2	CLOUDY	N	N	N	N	Y	N	N	N	N	N	N	N
B	4.384	KY0842	REAR END	1724	2017	8	30	CURVE & LEVEL	DRY	3	CLOUDY	N	N	N	N	Y	N	N	N	N	N	N	N
P	4.385	KY0842	REAR END	1915	2014	1	3	STRAIGHT & LEVEL	DRY	2	CLOUDY	S	S	N	N	Y	N	N	N	N	N	N	N
P	4.388	KY0842	REAR END	915	2014	4	16	STRAIGHT & GRADE	DRY	2	CLEAR	N	N	N	N	Y	N	N	N	N	N	N	N
B	4.391	KY0842	REAR END	1157	2015	9	9	STRAIGHT & GRADE	WET	2	RAINING	S	S	N	N	N	N	N	Y	N	N	N	N
P	4.393	KY0842	REAR END	1726	2016	3	24	STRAIGHT & LEVEL	WET	2	RAINING	E	E	Y	N	Y	N	N	N	N	N	N	N
P	4.406	KY0842	REAR END	1420	2015	6	13	CURVE & LEVEL	DRY	2	CLOUDY	W	W	N	N	Y	N	N	N	N	N	N	N
P	4.407	KY0842	REAR END	720	2015	12	31	CURVE & GRADE	DRY	2	CLOUDY	N	N	N	N	N	N	N	N	N	N	N	Y
C	4.439	KY0842	ANGLE	1801	2015	4	29	STRAIGHT & GRADE	DRY	3	CLEAR	W	N	Y	N	Y	N	N	N	N	N	N	N
P	4.449	KY0842	REAR END	2142	2014	11	16	STRAIGHT & GRADE	DRY	4	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	Y
P	4.451	KY0842	REAR END	1206	2016	2	10	STRAIGHT & GRADE	SNOW/SL	2	CLOUDY	S	S	Y	N	N	N	N	N	N	N	N	N
P	4.463	KY0842	REAR END	1848	2014	12	4	STRAIGHT & LEVEL	WET	2	RAINING	S	S	N	N	N	N	N	N	N	N	N	N
P	4.477	KY0842	REAR END	820	2015	10	28	STRAIGHT & LEVEL	WET	2	RAINING	S	S	N	N	N	N	N	Y	N	N	N	N
P	4.477	KY0842	REAR END	1710	2015	11	4	STRAIGHT & LEVEL	DRY	4	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	N
P	4.484	KY0842	REAR END	2226	2016	5	4	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	Y
P	4.487	KY0842	REAR END	1738	2016	6	3	STRAIGHT & GRADE	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	N
P	4.495	KY0842	REAR END	1710	2017	10	21	STRAIGHT & LEVEL	DRY	2	CLEAR	N	N	N	N	Y	N	N	N	N	N	N	N
P	4.507	KY0842	REAR END	1248	2016	8	7	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	Y	N	Y	N	N	N	N	N	N	N
P	4.519	KY0842	REAR END	2151	2016	4	30	STRAIGHT & LEVEL	WET	2	RAINING	S	S	N	N	Y	N	N	N	N	N	N	N
P	4.529	KY0842	REAR END	1756	2018	11	15	STRAIGHT & LEVEL	WET	2	CLOUDY	N	N	N	N	Y	N	N	N	N	N	N	Y
P	4.529	KY0842	REAR END	1422	2018	9	3	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	N
P	4.529	KY0842	REAR END	2011	2017	3	29	STRAIGHT & LEVEL	DRY	2	CLOUDY	N	N	N	N	N	N	N	N	N	N	N	N
P	4.530	KY0842	REAR END	959	2018	1	8	STRAIGHT & LEVEL	ICE	3	RAINING	S	S	N	N	N	N	N	N	N	N	N	N
P	4.530	KY0842	REAR END	1428	2018	12	1	STRAIGHT & LEVEL	WET	3	RAINING	S	S	N	N	Y	N	N	N	N	N	N	N
P	4.530	KY0842	REAR END	1712	2017	10	21	STRAIGHT & LEVEL	DRY	2	CLEAR	N	N	N	N	Y	N	N	N	N	N	N	N
P	4.531	KY0842	ANGLE	150	2018	3	2	STRAIGHT & LEVEL	DRY	2	CLEAR	W	S	N	N	N	N	N	N	N	N	N	Y
P	4.531	KY0842	REAR END	2110	2016	9	8	STRAIGHT & GRADE	WET	2	RAINING	S	S	N	N	N	N	N	Y	N	N	N	Y

Appendix B: Crash Records

SEVERITY	MILEPOINT DERIVED	RDWY	MANNERCOLL	CTIME	CYEAR	CMONTH	CDAY	RDWY CHAR	RDWY COND	UNITS INVOLVED	WEATHER	U1_DIR	U2_DIR	AGGO_HF_IND	ALCOHOL_HF_IND	DISTRACT	DROWSY_HF_IND	DRUG_HF_IND	SPEED_HF_IND	PEDESTRIAN_IND	BICYCLE_IND	DEER_IND	NIGHT_IND
P	4.532	KY0842	HEAD ON	1755	2018	10	31	STRAIGHT & LEVEL	WET	2	RAINING	E	W	Y	N	N	N	N	N	N	N	N	N
P	4.533	KY0842	SIDESWIPE-SAME DIRECTION	1254	2017	8	19	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	Y	N	N	N	N	N	N	N	N	N
P	4.533	KY0842	REAR END	2209	2016	8	3	STRAIGHT & GRADE	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	N
P	4.533	KY0842	REAR END	1600	2018	5	10	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	N
C	4.534	KY0842	REAR END	1315	2018	12	31	STRAIGHT & LEVEL	WET	2	RAINING	N	N	N	N	Y	N	N	N	N	N	N	N
P	4.544	KY0842	REAR END	1616	2015	1	7	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	Y	N	N	N	N	N	N	N	N	N
C	4.545	KY0842	REAR END	1650	2014	3	12	STRAIGHT & LEVEL	WET	4	CLOUDY	S	S	N	N	Y	N	N	N	N	N	N	N
P	4.555	KY0842	REAR END	1438	2017	10	2	STRAIGHT & LEVEL	DRY	2	CLEAR	N	N	N	N	Y	N	N	N	N	N	N	N
P	4.556	KY0842	REAR END	1639	2015	1	2	STRAIGHT & GRADE	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	N
P	4.573	KY0842	REAR END	1925	2017	8	21	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	N	N	N	N	N	N	N	N	N	N
P	4.574	KY0842	REAR END	1450	2014	5	9	STRAIGHT & LEVEL	DRY	2	CLOUDY	S	S	N	N	Y	N	N	N	N	N	N	N
P	4.575	KY0842	REAR END	1200	2015	10	24	STRAIGHT & LEVEL	WET	2	CLOUDY	N	N	N	N	Y	N	N	N	N	N	N	N
P	4.576	KY0842	REAR END	1735	2016	12	4	STRAIGHT & LEVEL	DRY	3	CLEAR	S	S	Y	N	Y	N	N	N	N	N	N	N
P	4.579	KY0842	REAR END	1640	2018	12	17	STRAIGHT & GRADE	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	N
P	4.589	KY0842	BACKING	1826	2015	8	4	STRAIGHT & LEVEL	DRY	2	CLEAR	W	N	N	N	N	N	N	N	N	N	N	N
P	4.589	KY0842	REAR END	1445	2015	2	24	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	Y	N	N	N	N	N	N	N	N	N
C	0.872	CR1016J	ANGLE	1720	2017	3	17	STRAIGHT & LEVEL	WET	2	RAINING	S	E	Y	N	N	N	N	N	N	N	N	N
P	0.872	AYTON R	SIDESWIPE-OPPOSITE DIRECTION	1715	2015	10	2	STRAIGHT & LEVEL	WET	2	RAINING	E	N	N	N	Y	N	N	N	N	N	N	N
P	0.873	AYTON R	ANGLE	1115	2016	11	23	CURVE & LEVEL	WET	2	RAINING	W	E	N	N	N	N	N	Y	N	N	N	N
P	0.873	CR1016J	REAR END	1605	2017	5	5	STRAIGHT & LEVEL	WET	2	CLOUDY	W	W	N	N	Y	N	N	N	N	N	N	N
P	0.876	CR1016J	SIDESWIPE-SAME DIRECTION	938	2018	5	5	STRAIGHT & LEVEL	WET	2	CLOUDY	W	W	N	N	Y	N	N	N	N	N	N	Y
P	0.877	AYTON R	ANGLE	1901	2015	5	11	CURVE & LEVEL	WET	2	FOG WITH	S	E	N	N	N	N	N	Y	N	N	N	N
P	0.879	AYTON R	REAR END	1418	2014	9	12	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	0.879	CR1016J	REAR END	1836	2017	8	10	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	0.880	AYTON R	REAR END	1632	2016	6	14	STRAIGHT & GRADE	DRY	2	CLEAR	N	N	N	N	Y	N	N	N	N	N	N	N
P	0.880	AYTON R	SIDESWIPE-OPPOSITE DIRECTION	2000	2015	8	10	STRAIGHT & GRADE	WET	2	CLOUDY	W	S	N	N	N	N	N	N	N	N	N	N
P	0.883	AYTON R	ANGLE	1845	2014	5	20	CURVE & LEVEL	DRY	2	CLOUDY	W	E	N	N	N	N	N	N	N	N	N	N
P	0.884	AYTON R	REAR END	1951	2015	12	2	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	N	N	N	N	N	N	N	Y
P	0.884	AYTON R	SIDESWIPE-OPPOSITE DIRECTION	1650	2014	6	20	STRAIGHT & LEVEL	WET	2	CLOUDY	W	E	N	N	N	N	N	N	N	N	N	N
P	0.885	AYTON R	SIDESWIPE-OPPOSITE DIRECTION	1413	2015	11	28	STRAIGHT & LEVEL	WET	2	RAINING	W	E	N	N	N	N	N	N	N	N	N	N
P	0.885	AYTON R	REAR END	1445	2016	5	4	STRAIGHT & GRADE	DRY	2	CLEAR	E	E	N	N	Y	N	N	N	N	N	N	N
P	0.885	AYTON R	BACKING	1607	2015	11	21	STRAIGHT & LEVEL	WET	2	CLOUDY	W	E	N	N	Y	N	N	N	N	N	N	N
P	0.886	AYTON R	SIDESWIPE-SAME DIRECTION	1608	2015	6	6	STRAIGHT & LEVEL	DRY	2	CLEAR	E	E	N	N	N	N	N	N	N	N	N	N
P	0.887	CR1016J	SIDESWIPE-OPPOSITE DIRECTION	1734	2017	12	29	STRAIGHT & LEVEL	SNOW/SLI	2	SNOWING	E	W	N	N	N	N	N	N	N	N	N	N
P	0.895	AYTON R	SIDESWIPE-SAME DIRECTION	1830	2015	1	26	CURVE & GRADE	DRY	2	CLEAR	W	W	N	N	N	N	N	N	N	N	N	N
P	0.900	AYTON R	REAR END	1632	2015	10	30	STRAIGHT & LEVEL	DRY	2	CLOUDY	W	W	Y	N	Y	N	N	N	N	N	N	N
P	0.902	AYTON R	REAR END	2100	2016	10	5	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	Y	N	N	Y	N	N	N	N	N
P	0.916	CR1016J	REAR END	1736	2018	12	27	STRAIGHT & LEVEL	DRY	2	CLOUDY	W	W	N	N	N	N	N	N	N	N	N	N
P	0.946	CR1016J	REAR END	1728	2018	11	12	STRAIGHT & LEVEL	WET	2	CLOUDY	W	W	N	Y	Y	N	N	N	N	N	N	N
P	0.948	AYTON R	SINGLE VEHICLE	2102	2016	6	23	STRAIGHT & LEVEL	DRY	1	CLOUDY	W		Y	N	N	N	N	N	N	N	N	N
P	0.961	CR1016J	REAR END	1510	2017	9	10	STRAIGHT & LEVEL	DRY	2	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
B	0.972	CR1016J	ANGLE	1744	2017	12	8	STRAIGHT & LEVEL	DRY	2	CLEAR	N	E	Y	N	N	N	N	N	N	N	N	Y
P	0.977	AYTON R	ANGLE	1727	2015	7	14	CURVE & GRADE	DRY	3	CLEAR	N	E	Y	N	Y	N	N	N	N	N	N	N
P	0.977	AYTON R	ANGLE	951	2014	2	28	STRAIGHT & LEVEL	DRY	2	CLEAR	N	E	Y	N	Y	N	N	N	N	N	N	N
P	1.109	CR1016J	REAR END	1730	2018	8	14	STRAIGHT & GRADE	DRY	3	CLEAR	W	W	N	N	Y	N	N	N	N	N	N	N
P	1.129	CR1016J	SINGLE VEHICLE	2230	2017	5	24	STRAIGHT & GRADE	WET	1	RAINING	E		N	N	N	N	N	Y	N	N	N	Y
B	1.303	CR1016J	SINGLE VEHICLE	1805	2017	10	23	STRAIGHT & LEVEL	WET	1	RAINING	W		N	N	N	N	N	N	N	N	N	N
B	1.334	CR1016J	SINGLE VEHICLE	1426	2017	9	13	CURVE & LEVEL	WET	1	RAINING	W		N	N	N	N	N	N	N	N	N	N
C	1.347	CR1016J	ANGLE	1008	2018	9	25	CURVE & GRADE	WET	2	RAINING	E	W	N	N	N	N	N	N	N	N	N	N
B	1.366	CR1016J	ANGLE	1457	2018	1	13	STRAIGHT & LEVEL	SNOW/SLI	2	CLEAR	E	W	N	N	N	N	N	N	N	N	N	N
P	1.388	CR1016J	SINGLE VEHICLE	1500	2018	1	14	CURVE & LEVEL	SNOW/SLI	1	CLEAR	E		N	N	N	N	N	Y	N	N	N	N
P	1.392	CR1016J	SINGLE VEHICLE	1430	2017	3	28	CURVE & LEVEL	DRY	1	CLOUDY	E		N	N	N	N	N	Y	N	N	N	N
P	0.000	AYTON R	ANGLE	1709	2016	12	10	STRAIGHT & GRADE	DRY	2	CLOUDY	S	W	Y	N	Y	N	N	N	N	N	N	N

Appendix B: Crash Records

SEVERITY	MILEPOINT DERIVED	RDWY	MANNERCOLL	CTIME	CYEAR	CMONTH	CDAY	RDWY CHAR	RDWY COND	UNITS INVOLVED	WEATHER	U1_DIR	U2_DIR	AGGO_HF_IND	ALCOHOL_HF_IND	DISTRACT	DROWSY_HF_IND	DRUG_HF_IND	SPEED_HF_IND	PEDESTRIAN_IND	BICYCLE_IND	DEER_IND	NIGHT_IND
P	0.000	AYTON RD	ANGLE	1457	2016	2	13	STRAIGHT & GRADE	DRY	2	CLEAR	N	W	Y	N	N	N	N	N	N	N	N	N
P	0.000	CS1308	ANGLE	2019	2017	12	14	STRAIGHT & LEVEL	DRY	2	CLOUDY	S	W	Y	N	N	N	N	N	N	N	N	Y
P	0.001	CS1308	ANGLE	1804	2018	6	27	STRAIGHT & LEVEL	DRY	2	CLEAR	N	W	Y	N	N	N	N	N	N	N	N	N
P	0.001	CS1308	ANGLE	1339	2017	9	11	STRAIGHT & LEVEL	DRY	2	CLOUDY	N	W	Y	N	Y	N	N	N	N	N	N	N
C	0.001	AYTON RD	ANGLE	1327	2015	2	28	STRAIGHT & LEVEL	DRY	2	CLOUDY	N	W	Y	N	Y	N	N	N	N	N	N	N
C	0.001	AYTON RD	ANGLE	1137	2016	4	30	STRAIGHT & LEVEL	WET	2	RAINING	N	W	N	N	Y	N	N	N	N	N	N	N
P	0.003	CS1308	ANGLE	1840	2018	12	20	STRAIGHT & LEVEL	WET	2	RAINING	S	W	Y	N	N	N	N	N	N	N	N	Y
P	0.003	CS1308	ANGLE	1554	2017	9	13	STRAIGHT & LEVEL	WET	2	CLOUDY	N	W	Y	N	Y	N	N	N	N	N	N	N
P	0.003	CS1308	ANGLE	1658	2017	9	2	STRAIGHT & LEVEL	WET	2	CLOUDY	N	W	Y	N	Y	N	N	N	N	N	N	N
P	0.003	CS1308	ANGLE	1427	2018	9	7	STRAIGHT & LEVEL	DRY	2	CLEAR	W		Y	N	N	N	N	N	N	N	N	N
P	0.004	AYTON RD	ANGLE	1519	2016	11	18	STRAIGHT & LEVEL	DRY	2	CLEAR	E	W	N	N	Y	N	N	N	N	N	N	N
P	0.006	CS1308	SINGLE VEHICLE	759	2017	11	2	CURVE & LEVEL	WET	1	CLOUDY	W		N	N	N	N	N	N	N	N	N	N
P	0.011	AYTON RD	ANGLE	1524	2016	12	15	STRAIGHT & LEVEL	DRY	2	CLEAR	S	W	N	N	Y	N	N	N	N	N	N	N
P	0.000	MALL RD	SIDESWIPE-SAME DIRECTION	43	2016	12	26	CURVE & LEVEL	WET	2	FOG WITH	E	E	Y	Y	Y	N	N	N	N	N	N	Y
P	0.000	CS1002	ANGLE	1340	2017	12	8	STRAIGHT & LEVEL	DRY	2	CLEAR	W	N	Y	N	N	N	N	N	N	N	N	N
P	0.000	CS1002	REAR END	1925	2018	10	16	STRAIGHT & GRADE	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	Y
P	0.000	CS1002	REAR END	1310	2018	12	21	STRAIGHT & LEVEL	WET	2	CLOUDY	N	N	N	N	N	N	N	N	N	N	N	N
P	0.000	CS1002	REAR END	1150	2017	12	16	STRAIGHT & GRADE	DRY	3	CLEAR	N	N	N	N	Y	N	N	N	N	N	N	N
B	0.000	CS1002	ANGLE	2109	2018	3	31	STRAIGHT & LEVEL	WET	2	RAINING	N	W	Y	N	Y	N	N	N	N	N	N	Y
P	0.001	MALL RD	REAR END	1450	2015	5	17	STRAIGHT & GRADE	DRY	2	CLOUDY	S	S	N	N	Y	N	N	N	N	N	N	N
P	0.002	MALL RD	REAR END	1758	2016	2	5	STRAIGHT & HILLCREST	DRY	2	CLEAR	E	E	N	N	N	N	N	N	N	N	N	N
B	0.003	CS1002	SINGLE VEHICLE	1536	2018	6	11	STRAIGHT & LEVEL	DRY	2	CLEAR		N	N	N	N	N	N	N	N	Y	N	N
P	0.004	CS1002	SIDESWIPE-SAME DIRECTION	1223	2018	10	7	STRAIGHT & LEVEL	DRY	2	CLOUDY	S	S	N	N	Y	N	N	N	N	N	N	N
P	0.004	MALL RD	REAR END	1034	2016	9	25	STRAIGHT & GRADE	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	N
P	0.004	MALL RD	SIDESWIPE-SAME DIRECTION	1235	2015	8	11	STRAIGHT & LEVEL	DRY	2	CLOUDY	N	N	N	N	N	N	N	N	N	N	N	N
P	0.006	CS1002	REAR END	1550	2017	3	26	STRAIGHT & LEVEL	DRY	2	CLOUDY	S	S	Y	N	Y	N	N	N	N	N	N	N
P	0.006	CS1002	REAR END	1622	2018	10	17	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	N
P	0.007	CS1002	REAR END	720	2017	4	5	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	N
P	0.007	MALL RD	REAR END	1234	2016	10	3	STRAIGHT & HILLCREST	DRY	2	CLEAR	S	S	Y	N	Y	N	N	N	N	N	N	N
P	0.008	CS1002	REAR END	850	2018	8	7	STRAIGHT & LEVEL	DRY	2	CLOUDY	S	S	N	N	Y	N	N	N	N	N	N	N
P	0.008	CS1002	REAR END	1336	2018	7	18	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	N
P	0.010	CS1002	REAR END	1800	2018	2	22	STRAIGHT & GRADE	DRY	2	CLOUDY	S	S	N	N	Y	N	N	N	N	N	N	N
P	0.012	MALL RD	REAR END	1733	2015	2	13	STRAIGHT & HILLCREST	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	N
P	0.014	MALL RD	SIDESWIPE-SAME DIRECTION	1805	2016	2	2	STRAIGHT & GRADE	WET	2	CLOUDY	S	S	Y	N	Y	N	N	N	N	N	N	Y
P	0.018	CS1002	REAR END	2114	2017	2	18	STRAIGHT & GRADE	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	Y
P	0.021	CS1002	REAR END	1310	2018	11	13	STRAIGHT & GRADE	DRY	2	CLOUDY	S	S	N	N	Y	N	N	N	N	N	N	N
P	0.031	MALL RD	REAR END	2005	2016	3	28	STRAIGHT & GRADE	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	N
P	0.036	CS1002	REAR END	1240	2017	9	10	STRAIGHT & GRADE	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	N
P	0.036	CS1002	ANGLE	1658	2018	10	31	STRAIGHT & GRADE	WET	2	RAINING	E	S	Y	N	N	N	N	N	N	N	N	N
P	0.040	CS1002	REAR END	1627	2017	9	12	STRAIGHT & GRADE	DRY	2	CLOUDY	N	N	Y	N	Y	N	N	N	N	N	N	N
P	0.044	CS1002	ANGLE	1840	2018	8	15	STRAIGHT & LEVEL	DRY	2	CLEAR	E	S	Y	N	Y	N	N	N	N	N	N	N
P	0.051	MALL RD	REAR END	1620	2016	10	18	STRAIGHT & GRADE	DRY	2	CLOUDY	S	S	N	N	Y	N	N	N	N	N	N	N
P	0.074	CS1002	ANGLE	1650	2018	12	14	STRAIGHT & GRADE	DRY	2	CLOUDY	E	S	Y	N	N	N	N	N	N	N	N	N
P	0.076	MALL RD	REAR END	2100	2014	4	17	STRAIGHT & GRADE	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	Y
P	0.077	CS1002	ANGLE	1416	2017	6	3	STRAIGHT & LEVEL	DRY	2	CLEAR	N	S	Y	N	Y	N	N	N	N	N	N	N
P	0.079	CS1002	SIDESWIPE-SAME DIRECTION	1145	2018	2	17	STRAIGHT & LEVEL	SNOW/SL	2	BLOWING	S	S	N	N	Y	N	N	N	N	N	N	N
P	0.080	CS1002	REAR END	940	2018	5	15	STRAIGHT & GRADE	DRY	2	CLEAR	N	N	N	N	Y	N	N	N	N	N	N	N
P	0.083	CS1002	ANGLE	1727	2018	10	22	STRAIGHT & LEVEL	DRY	2	CLEAR	E	S	N	N	Y	N	N	N	N	N	N	N
P	0.089	CS1002	ANGLE	1708	2017	9	19	STRAIGHT & GRADE	DRY	2	CLOUDY	E	S	Y	N	N	N	N	N	N	N	N	N
P	0.092	CS1002	ANGLE	1643	2018	10	5	STRAIGHT & GRADE	DRY	2	CLOUDY	E	S	Y	N	N	N	N	N	N	N	N	N
P	0.098	CS1002	REAR END	1848	2017	1	12	STRAIGHT & HILLCREST	WET	2	RAINING	S	S	N	N	Y	N	N	N	N	N	N	Y
P	0.106	MALL RD	SIDESWIPE-SAME DIRECTION	1607	2016	10	8	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	N
P	0.107	CS1002	ANGLE	1652	2018	12	21	STRAIGHT & LEVEL	WET	2	RAINING	E	S	Y	N	N	N	N	N	N	N	N	N

Appendix B: Crash Records

SEVERITY	MILEPOINT DERIVED	RDWY	MANNERCOLL	CTIME	CYEAR	CMONTH	CDAY	RDWY CHAR	RDWY COND	UNITS INVOLVED	WEATHER	U1_DIR	U2_DIR	AGGO_HF_IND	ALCOHOL_HF_IND	DISTRACT	DROWSY_HF_IND	DRUG_HF_IND	SPEED_HF_IND	PEDESTRIAN_IND	BICYCLE_IND	DEER_IND	NIGHT_IND
P	0.125	MALL RD	ANGLE	1310	2016	4	22	STRAIGHT & GRADE	DRY	2	CLOUDY	S	N	N	N	Y	N	N	N	N	N	N	N
P	0.130	CS1002	ANGLE	1848	2017	12	16	STRAIGHT & LEVEL	DRY	2	CLEAR	E	S	N	N	Y	N	N	N	N	N	N	N
P	0.131	MALL RD	ANGLE	1720	2014	12	12	STRAIGHT & GRADE	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	Y
P	0.136	CS1002	HEAD ON	1312	2018	4	22	STRAIGHT & HILLCREST	DRY	2	CLEAR	E	S	N	N	Y	N	N	N	N	N	N	N
P	0.138	MALL RD	ANGLE	1802	2016	10	31	STRAIGHT & GRADE	DRY	2	CLEAR	E	S	Y	N	Y	N	N	N	N	N	N	N
P	0.152	CS1002	REAR END	1748	2017	9	7	STRAIGHT & GRADE	DRY	2	CLOUDY	S	S	N	N	Y	N	N	N	N	N	N	N
P	0.165	CS1002	ANGLE	1717	2018	9	14	STRAIGHT & LEVEL	DRY	2	CLEAR	E	S	N	N	Y	N	N	N	N	N	N	N
P	0.168	CS1002	REAR END	1244	2018	12	28	STRAIGHT & GRADE	WET	2	CLOUDY	S	N	N	N	Y	N	N	N	N	N	N	N
P	0.175	CS1002	REAR END	1621	2017	5	15	STRAIGHT & HILLCREST	DRY	2	CLEAR	S	S	N	N	N	N	N	N	N	N	N	N
P	0.191	MALL RD	REAR END	1300	2016	11	22	STRAIGHT & GRADE	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	N
P	0.200	CS1002	ANGLE	1743	2017	7	21	STRAIGHT & LEVEL	DRY	2	CLEAR	E	S	N	N	Y	N	N	N	N	N	N	N
P	0.219	CS1002	REAR END	1819	2017	11	15	STRAIGHT & LEVEL	WET	2	RAINING	N	N	Y	N	N	N	N	N	N	N	N	Y
C	0.220	CS1002	REAR END	1647	2017	8	28	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	Y	N	N	N	N	N	N	N	N	N
P	0.238	CS1002	REAR END	840	2017	4	3	STRAIGHT & GRADE	DRY	3	CLOUDY	N	N	N	N	Y	N	N	N	N	N	N	N
P	0.264	MALL RD	SINGLE VEHICLE	1446	2016	10	25	STRAIGHT & LEVEL	DRY	1	CLOUDY	S		N	N	N	N	Y	N	N	N	N	N
P	0.269	MALL RD	REAR END	923	2015	12	23	STRAIGHT & GRADE	WET	2	CLOUDY	N	N	N	N	Y	N	N	N	N	N	N	N
P	0.276	CS1002	ANGLE	1154	2018	11	27	STRAIGHT & GRADE	WET	2	SNOWING	S	S	N	N	Y	N	N	N	N	N	N	N
P	0.294	CS1002	REAR END	1319	2018	12	28	STRAIGHT & GRADE	DRY	4	CLOUDY	N	N	N	N	Y	N	N	N	N	N	N	N
P	0.296	CS1002	ANGLE	2057	2017	9	28	STRAIGHT & GRADE	DRY	2	CLEAR	N	W	Y	N	N	N	N	N	N	N	N	Y
P	0.298	CS1002	REAR END	1250	2017	11	30	STRAIGHT & GRADE	WET	2	RAINING	N	N	N	N	N	N	N	N	N	N	N	N
P	0.301	MALL RD	ANGLE	1742	2016	6	29	STRAIGHT & GRADE	ICE	2	CLEAR	E	S	Y	N	Y	N	N	N	N	N	N	N
P	0.308	CS1002	ANGLE	2134	2017	6	29	STRAIGHT & GRADE	DRY	2	CLEAR	E	S	Y	N	N	N	N	N	N	N	N	Y
P	0.308	CS1002	ANGLE	1600	2018	12	7	STRAIGHT & GRADE	DRY	2	CLEAR	E	S	Y	N	N	N	N	N	N	N	N	N
P	0.309	MALL RD	SIDESWIPE-SAME DIRECTION	1302	2016	10	15	STRAIGHT & GRADE	DRY	2	CLEAR	N	N	N	N	Y	N	N	N	N	N	N	N
P	0.315	CS1002	REAR END	1018	2017	9	27	STRAIGHT & HILLCREST	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	N
P	0.341	MALL RD	REAR END	1733	2014	12	10	STRAIGHT & GRADE	DRY	2	CLOUDY	S	S	N	N	Y	N	N	N	N	N	N	Y
P	0.345	MALL RD	REAR END	1845	2014	5	8	STRAIGHT & GRADE	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	N
C	0.371	CS1002	REAR END	1331	2018	12	26	STRAIGHT & LEVEL	DRY	2	CLEAR	N	N	N	N	Y	N	N	N	N	N	N	N
P	0.375	MALL RD	REAR END	1141	2014	5	22	STRAIGHT & GRADE	DRY	2	CLEAR	N	N	N	N	Y	N	N	N	N	N	N	N
P	0.383	CS1002	SIDESWIPE-SAME DIRECTION	1526	2017	10	27	STRAIGHT & LEVEL	DRY	2	CLEAR	S	N	N	N	Y	N	N	N	N	N	N	N
P	0.384	CS1002	SIDESWIPE-SAME DIRECTION	1605	2017	7	15	STRAIGHT & LEVEL	DRY	2	CLEAR	N	N	N	N	Y	N	N	N	N	N	N	N
P	0.385	CS1002	REAR END	1052	2017	10	5	STRAIGHT & LEVEL	WET	2	CLOUDY	S	S	N	N	Y	N	N	N	N	N	N	N
P	0.385	CS1002	REAR END	1201	2018	4	6	STRAIGHT & LEVEL	DRY	2	CLEAR	N	N	Y	N	Y	N	N	N	N	N	N	N
P	0.385	CS1002	ANGLE	1800	2018	5	16	STRAIGHT & LEVEL	DRY	2	CLOUDY	E	S	N	N	Y	N	N	N	N	N	N	N
P	0.389	CS1002	REAR END	1724	2017	3	29	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	N
P	0.390	CS1002	SIDESWIPE-SAME DIRECTION	1232	2017	8	27	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	N
P	0.391	CS1002	REAR END	1015	2018	4	27	STRAIGHT & LEVEL	DRY	2	CLEAR	N	N	N	N	Y	N	N	N	N	N	N	N
P	0.391	CS1002	REAR END	1329	2017	8	20	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	Y	N	N	N	N	N	N	N	N	N
P	0.391	CS1002	ANGLE	914	2017	9	28	STRAIGHT & LEVEL	DRY	2	CLEAR	E	N	Y	N	N	N	N	N	N	N	N	N
P	0.394	CS1002	ANGLE	1940	2017	6	8	STRAIGHT & LEVEL	DRY	2	CLEAR	N	W	Y	N	Y	N	N	N	N	N	N	N
P	0.394	CS1002	ANGLE	1643	2017	2	23	STRAIGHT & GRADE	DRY	3	CLEAR	N	S	Y	N	N	N	N	N	N	N	N	N
P	0.394	MALL RD	HEAD ON	1855	2015	11	21	STRAIGHT & LEVEL	WET	2	CLOUDY	S		N	Y	Y	N	N	N	N	N	N	Y
P	0.394	MALL RD	OPPOSING LEFT TURN	1636	2016	11	8	STRAIGHT & GRADE	WET	3	RAINING	W	S	Y	N	N	N	N	N	N	N	N	N
P	0.395	CS1002	SIDESWIPE-SAME DIRECTION	1336	2017	1	9	STRAIGHT & HILLCREST	DRY	2	CLOUDY	N	N	N	N	Y	N	N	N	N	N	N	N
C	0.395	MALL RD	ANGLE	1307	2015	10	26	STRAIGHT & GRADE	DRY	2	CLEAR	S	E	Y	N	N	N	N	N	N	N	N	N
C	0.395	CS1002	ANGLE	1220	2018	3	26	STRAIGHT & LEVEL	DRY	2	CLOUDY	N	W	Y	N	Y	N	N	N	N	N	N	N
P	0.395	CS1002	SIDESWIPE-SAME DIRECTION	1820	2017	2	23	STRAIGHT & LEVEL	DRY	2	CLEAR	N	N	Y	N	Y	N	N	N	N	N	N	Y
B	0.395	CS1002	ANGLE	1815	2017	6	10	STRAIGHT & LEVEL	DRY	2	CLEAR	W	S	Y	N	N	N	N	N	N	N	N	N
P	0.398	CS1002	REAR END	1315	2018	1	28	STRAIGHT & LEVEL	DRY	3	CLEAR	S	S	N	N	N	N	N	N	N	N	N	N
P	0.399	MALL RD	REAR END	1730	2016	8	14	STRAIGHT & GRADE	DRY	2	CLOUDY	S	S	Y	N	N	N	N	Y	N	N	N	N
C	0.402	CS1002	OPPOSING LEFT TURN	1956	2018	12	13	STRAIGHT & LEVEL	DRY	2	CLEAR	S	N	Y	N	N	N	N	N	N	N	N	Y
C	0.405	MALL RD	OPPOSING LEFT TURN	1341	2016	1	11	STRAIGHT & GRADE	WET	2	CLEAR	N	S	Y	N	Y	N	N	N	N	N	N	N
P	0.409	MALL RD	REAR END	1100	2014	2	8	STRAIGHT & HILLCREST	WET	2	CLOUDY	N	N	N	N	Y	N	N	N	N	N	N	N

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SEVERITY	MILEPOINT DERIVED	RDWY	MANNERCOLL	CTIME	CYEAR	CMONTH	CDAY	RDWY CHAR	RDWY COND	UNITS INVOLVED	WEATHER	U1_DIR	U2_DIR	AGGO_HF_IND	ALCOHOL_HF_IND	DISTRACT	DROWSY_HF_IND	DRUG_HF_IND	SPEED_HF_IND	PEDESTRIAN_IND	BICYCLE_IND	DEER_IND	NIGHT_IND
P	0.411	MALL RD	REAR END	1840	2015	10	30	STRAIGHT & GRADE	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	Y
P	0.416	MALL RD	OPPOSING LEFT TURN	1753	2015	10	2	STRAIGHT & GRADE	DRY	3	CLEAR	N	S	Y	N	Y	N	N	N	N	N	N	Y
P	0.419	CS1002	REAR END	1626	2018	3	8	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	Y	N	Y	N	N	N	N	N	N	N
C	0.429	MALL RD	REAR END	2043	2016	4	6	STRAIGHT & GRADE	WET	2	CLOUDY	S	S	N	N	Y	N	N	N	N	N	N	Y
B	0.482	CS1002	ANGLE	1201	2018	9	19	STRAIGHT & LEVEL	DRY	2	CLEAR	N	W	Y	N	N	N	N	N	N	N	N	N
P	0.499	CS1002	ANGLE	1403	2018	12	12	STRAIGHT & LEVEL	DRY	2	CLEAR	S	W	N	N	Y	N	N	N	N	N	N	N
P	0.521	CS1002	ANGLE	1321	2017	10	24	STRAIGHT & LEVEL	DRY	2	CLOUDY	N	W	Y	N	Y	N	N	N	N	N	N	N
P	0.523	CS1002	ANGLE	1301	2017	4	12	STRAIGHT & GRADE	DRY	2	CLEAR	S	W	Y	N	N	N	N	N	N	N	N	N
P	0.523	CS1002	ANGLE	1243	2018	10	4	STRAIGHT & LEVEL	DRY	2	CLOUDY	W	S	N	N	Y	N	N	N	N	N	N	N
P	0.526	CS1002	ANGLE	1346	2018	10	25	STRAIGHT & GRADE	DRY	2	CLEAR	S	W	N	N	N	N	N	N	N	N	N	N
P	0.527	CS1002	REAR END	1416	2018	9	15	STRAIGHT & LEVEL	DRY	2	CLEAR	N	N	N	N	N	N	N	N	N	N	N	N
P	0.528	MALL RD	SINGLE VEHICLE	437	2015	3	1	STRAIGHT & LEVEL	SNOW/SLI	1	CLOUDY	S		N	N	N	N	Y	N	N	N	Y	
P	0.528	CS1002	REAR END	1119	2018	10	27	STRAIGHT & HILLCREST	WET	2	CLOUDY	N	N	N	N	Y	N	N	N	N	N	N	N
P	0.531	CS1002	REAR END	1155	2018	4	3	STRAIGHT & LEVEL	DRY	2	CLEAR	N	N	N	N	Y	N	N	N	N	N	N	N
P	0.531	CS1002	ANGLE	1703	2018	1	12	STRAIGHT & GRADE	SNOW/SLI	2	SNOWING	S	W	N	N	N	N	N	N	N	N	N	N
P	0.532	MALL RD	REAR END	1243	2014	12	7	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	N
P	0.534	CS1002	REAR END	1642	2018	3	23	STRAIGHT & LEVEL	DRY	2	CLEAR	N	N	N	N	N	N	N	N	N	N	N	N
P	0.535	CS1002	REAR END	1525	2018	11	18	STRAIGHT & GRADE	DRY	2	CLEAR	N	N	N	N	N	N	N	N	N	N	N	N
B	0.535	CS1002	ANGLE	1700	2018	4	16	STRAIGHT & GRADE	WET	2	CLOUDY	S	W	Y	N	Y	N	N	N	N	N	N	N
P	0.535	CS1002	REAR END	1709	2017	12	24	STRAIGHT & GRADE	WET	2	SNOWING	S	S	N	N	Y	N	N	N	N	N	N	N
P	0.535	MALL RD	SIDESWIPE-SAME DIRECTION	914	2015	7	23	STRAIGHT & GRADE	DRY	2	CLEAR	S	S	N	N	N	N	N	N	N	N	N	N
P	0.535	CS1002	ANGLE	1130	2017	6	29	STRAIGHT & GRADE	DRY	2	CLEAR	S	W	Y	N	N	N	N	N	N	N	N	N
P	0.536	CS1002	SIDESWIPE-SAME DIRECTION	1500	2017	3	4	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	Y	N	Y	N	N	N	N	N	N	N
P	0.537	CS1002	REAR END	1621	2017	9	7	STRAIGHT & GRADE	DRY	2	CLOUDY	S	S	Y	N	Y	N	N	N	N	N	N	N
C	0.538	CS1002	REAR END	1255	2018	12	5	STRAIGHT & GRADE	DRY	2	CLOUDY	S	S	N	N	Y	N	N	N	N	N	N	N
P	0.540	CS1002	REAR END	1610	2018	1	4	STRAIGHT & GRADE	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	N
P	0.540	CS1002	SIDESWIPE-SAME DIRECTION	1934	2017	12	22	STRAIGHT & GRADE	WET	2	CLOUDY	S	S	N	N	N	N	N	N	N	N	N	Y
P	0.542	CS1002	REAR END	1731	2017	6	23	STRAIGHT & LEVEL	WET	2	RAINING	S	S	Y	N	Y	N	N	N	N	N	N	N
P	0.563	CS1002	SIDESWIPE-SAME DIRECTION	1418	2018	1	2	STRAIGHT & LEVEL	DRY	2	CLEAR	N	N	Y	N	N	N	N	N	N	N	N	N
P	0.575	MALL RD	REAR END	1458	2016	7	29	STRAIGHT & LEVEL	DRY	2	CLOUDY	S	S	Y	N	N	N	N	N	N	N	N	N
P	0.594	MALL RD	REAR END	1815	2016	1	15	STRAIGHT & GRADE	WET	3	RAINING	S	S	N	N	Y	N	N	N	N	N	N	Y
P	0.603	CS1002	REAR END	1117	2017	12	21	STRAIGHT & GRADE	DRY	3	CLEAR	N	N	N	N	Y	N	N	N	N	N	N	N
P	0.663	CS1002	REAR END	1149	2018	8	9	STRAIGHT & GRADE	DRY	2	CLEAR	N	N	N	N	Y	N	N	N	N	N	N	N
P	0.663	CS1002	REAR END	1612	2017	12	24	STRAIGHT & LEVEL	WET	2	RAINING	S	S	N	N	N	N	N	N	N	N	N	N
P	0.667	CS1002	SIDESWIPE-SAME DIRECTION	1456	2018	1	26	STRAIGHT & LEVEL	DRY	3	CLEAR	N	N	N	N	Y	N	N	N	N	N	N	N
P	0.671	CS1002	OPPOSING LEFT TURN	2113	2017	1	16	STRAIGHT & LEVEL	WET	2	RAINING	W	E	Y	N	N	N	N	N	N	N	N	Y
B	0.671	CS1002	REAR END	1340	2017	4	9	STRAIGHT & LEVEL	DRY	2	CLEAR	N	N	N	N	Y	N	N	N	N	N	N	N
P	0.673	CS1002	SIDESWIPE-SAME DIRECTION	1955	2017	12	18	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	N	N	N	N	N	N	N	N	N	Y
P	0.673	CS1002	REAR END	1914	2018	10	26	STRAIGHT & LEVEL	WET	2	RAINING	S	S	N	N	Y	N	N	N	N	N	N	Y
P	0.674	CS1002	SIDESWIPE-SAME DIRECTION	1916	2018	8	10	STRAIGHT & LEVEL	DRY	2	CLEAR		S	N	N	N	N	N	N	N	N	N	N
P	0.674	CS1002	OPPOSING LEFT TURN	1827	2018	12	3	STRAIGHT & GRADE	DRY	2	CLEAR	S	N	Y	N	Y	N	N	N	N	N	N	Y
P	0.675	MALL RD	REAR END	1723	2016	12	27	STRAIGHT & LEVEL	DRY	2	CLEAR	N	N	Y	N	Y	N	N	N	N	N	N	Y
P	0.676	CS1002	ANGLE	1225	2018	2	20	STRAIGHT & LEVEL	DRY	2	CLEAR	S	E	Y	N	N	N	N	N	N	N	N	N
P	0.676	MALL RD	REAR END	2113	2016	3	18	STRAIGHT & LEVEL	DRY	2	CLEAR		W	N	N	N	N	N	N	N	N	N	N
P	0.676	CS1002	SINGLE VEHICLE	1336	2017	7	6	STRAIGHT & GRADE	WET	2	RAINING		E	Y	N	Y	N	N	N	N	Y	N	N
C	0.676	CS1002	ANGLE	1220	2017	8	6	STRAIGHT & LEVEL	WET	2	RAINING	S	E	N	N	Y	N	N	N	N	N	N	N
P	0.676	MALL RD	REAR END	1410	2014	2	10	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	N
P	0.677	MALL RD	ANGLE	1935	2015	7	8	STRAIGHT & LEVEL	WET	2	RAINING	S	N	Y	N	Y	N	N	N	N	N	N	N
P	0.677	MALL RD	ANGLE	1405	2016	11	16	STRAIGHT & GRADE	DRY	2	CLEAR	S	W	Y	N	Y	N	N	N	N	N	N	N
P	0.677	MALL RD	ANGLE	1916	2016	10	13	STRAIGHT & HILLCREST	DRY	2	CLEAR	E	N	Y	N	Y	N	N	N	N	N	N	Y
P	0.678	CS1002	OPPOSING LEFT TURN	1613	2018	7	13	STRAIGHT & LEVEL	DRY	2	CLEAR	N	S	N	N	N	N	N	N	N	N	N	N
P	0.678	MALL RD	ANGLE	1043	2016	12	21	STRAIGHT & LEVEL	DRY	2	CLEAR	S	E	Y	N	N	N	N	N	N	N	N	N
P	0.685	MALL RD	REAR END	1220	2016	3	4	STRAIGHT & LEVEL	DRY	2	CLOUDY	S	S	N	N	Y	N	N	N	N	N	N	N

Appendix B: Crash Records

SEVERITY	MILEPOINT DERIVED	RDWY	MANNERCOLL	CTIME	CYEAR	CMONTH	CDAY	RDWY CHAR	RDWY COND	UNITS INVOLVED	WEATHER	U1_DIR	U2_DIR	AGGO_HF_IND	ALCOHOL_HF_IND	DISTRACT	DROWSY_HF_IND	DRUG_HF_IND	SPEED_HF_IND	PEDESTRIAN_IND	BICYCLE_IND	DEER_IND	NIGHT_IND
P	0.701	MALL RD	SIDESWIPE-SAME DIRECTION	1549	2016	8	18	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	Y	N	Y	N	N	N	N	N	N	N
P	0.766	CS1002	REAR END	1245	2018	4	24	STRAIGHT & GRADE	WET	2	RAINING	S	S	N	N	Y	N	N	Y	N	N	N	N
P	0.795	CS1002	ANGLE	1942	2017	3	7	CURVE & LEVEL	WET	2	CLEAR	N	W	N	N	N	N	N	N	N	N	N	Y
P	0.814	MALL RD	REAR END	1420	2016	12	17	STRAIGHT & LEVEL	WET	2	RAINING	E	E	N	N	Y	N	N	N	N	N	N	N
P	0.833	CS1002	ANGLE	1430	2018	1	26	STRAIGHT & LEVEL	DRY	3	CLEAR	S	W	Y	N	Y	N	N	N	N	N	N	N
B	0.835	CS1002	ANGLE	1842	2018	6	23	STRAIGHT & LEVEL	DRY	3	CLEAR	E	N	Y	N	N	N	N	N	N	N	N	N
B	0.835	CS1002	ANGLE	1728	2018	1	14	STRAIGHT & LEVEL	DRY	2	CLEAR	N	S	N	N	Y	N	N	N	N	N	N	N
P	0.835	CS1002	SIDESWIPE-SAME DIRECTION	1220	2017	6	17	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	N
B	0.836	CS1002	ANGLE	1832	2018	5	30	STRAIGHT & LEVEL	DRY	3	CLOUDY	N	S	Y	N	N	N	N	N	N	N	N	N
C	0.838	CS1002	REAR END	1629	2017	12	18	STRAIGHT & LEVEL	WET	2	CLOUDY	N	N	N	N	Y	N	N	N	N	N	N	N
P	0.839	CS1002	ANGLE	1700	2017	4	26	STRAIGHT & LEVEL	DRY	2	CLEAR	E	N	Y	N	N	N	N	N	N	N	N	N
P	0.840	CS1002	ANGLE	1212	2017	7	31	STRAIGHT & LEVEL	DRY	2	CLEAR	N	E	Y	N	Y	N	N	N	N	N	N	N
P	0.841	CS1002	SIDESWIPE-SAME DIRECTION	1438	2017	10	14	STRAIGHT & LEVEL	DRY	2	CLEAR	N	N	Y	N	N	N	N	N	N	N	N	N
P	0.843	CS1002	SIDESWIPE-SAME DIRECTION	1551	2017	9	14	STRAIGHT & LEVEL	DRY	2	CLOUDY	N	N	N	N	Y	N	N	N	N	N	N	N
P	0.843	MALL RD	SIDESWIPE-SAME DIRECTION	2046	2016	10	5	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	N	N	N	N	N	N	N	N	N	Y
P	0.850	MALL RD	SIDESWIPE-SAME DIRECTION	1835	2015	12	19	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	N	N	Y	N	N	N	N	N	N	Y
P	0.850	MALL RD	OPPOSING LEFT TURN	1115	2016	3	31	STRAIGHT & LEVEL	WET	2	RAINING	E	N	N	N	Y	N	N	N	N	N	N	N
B	0.850	CS1002	OPPOSING LEFT TURN	1502	2017	2	10	STRAIGHT & LEVEL	DRY	2	CLEAR	W	S	Y	N	N	N	N	N	N	N	N	N
P	0.851	CS1002	SINGLE VEHICLE	1845	2018	4	14	STRAIGHT & LEVEL	WET	1	RAINING	N		N	N	N	N	N	N	N	N	N	N
C	0.851	MALL RD	OPPOSING LEFT TURN	1626	2016	2	25	STRAIGHT & LEVEL	DRY	2	CLEAR	E	N	N	N	Y	N	N	N	N	N	N	N
C	0.852	CS1002	SIDESWIPE-SAME DIRECTION	1611	2018	8	20		DRY	7	CLEAR	S	S	Y	N	N	N	N	N	N	N	N	N
P	0.859	CS1002	REAR END	1218	2018	7	20	STRAIGHT & LEVEL	DRY	2	CLOUDY	S	S	N	N	Y	N	N	N	N	N	N	N
P	0.884	MALL RD	REAR END	1213	2016	10	26	STRAIGHT & LEVEL	DRY	2	CLEAR	S	S	Y	N	Y	N	N	N	N	N	N	N
P	0.893	CS1002	ANGLE	1700	2018	1	26	STRAIGHT & LEVEL	DRY	2	CLEAR			N	N	N	N	N	N	N	N	N	N