

Nominal Logistic Fit for ACCLASS**Effect Summary**

Source	LogWorth	PValue
IMPACTYPE	49.124	0.00000
TRUCK_Yes	38.799	0.00000
SPEEDING_Yes	33.496	0.00000
TRSN_CITY_VEH_Yes	14.539	0.00000
Age Class	13.314	0.00000
YEAR	9.598	0.00000
VISIBILITY	9.437	0.00000
AG_DRIV_Yes	8.087	0.00000
LIGHT	5.449	0.00000
CYCLIST_Yes	3.171	0.00067
ROAD_CLASS	2.819	0.00152
PASSENGER_Yes	2.579	0.00263
REDLIGHT_Yes	2.430	0.00371
EMERG_VEH_Yes	1.772	0.01689

Converged in Gradient, 23 iterations

Whole Model Test

Model	-LogLikelihood	DF	ChiSquare	Prob>ChiSq
Difference	448.0594	44	896.1188	<.0001*
Full	3837.8639			
Reduced	4285.9233			

RSquare (U)	0.1045
AICc	7768.12
BIC	8103.61
Observations (or Sum Wgts)	10958

Lack Of Fit

Source	DF	-LogLikelihood	ChiSquare
Lack Of Fit	5305	2744.3162	5488.632
Saturated	5349	1093.5477	Prob>ChiSq
Fitted	44	3837.8639	0.0384*

Parameter Estimates

Term		Estimate	Std Error	ChiSquare	Prob>ChiSq
Intercept	Biased	-140.3985	37269.566	0.00	0.9970
IMPACTYPE[Angle]		-0.0103798	0.1835651	0.00	0.9549
IMPACTYPE[Approaching]		0.45375921	0.1661602	7.46	0.0063*
IMPACTYPE[Cyclist Collisions]		2.16346419	0.9955781	4.72	0.0298*
IMPACTYPE[Other]		-1.9753812	0.4521949	19.08	<.0001*
IMPACTYPE[Pedestrian Collisions]		0.68703421	0.1383232	24.67	<.0001*
IMPACTYPE[Rear End]		-0.9967322	0.1911732	27.18	<.0001*
IMPACTYPE[Sideswipe]		-0.9960353	0.2796376	12.69	0.0004*
IMPACTYPE[SMV Other]		0.57045635	0.1583211	12.98	0.0003*
IMPACTYPE[SMV Unattended Vehicle]		0.25833683	0.2704661	0.91	0.3395

Nominal Logistic Fit for ACCLASS**Parameter Estimates**

Term		Estimate	Std Error	ChiSquare	Prob>ChiSq
YEAR		0.05322732	0.0084136	40.02	<.0001*
CYCLIST_Yes		-2.5708077	1.1012515	5.45	0.0196*
ROAD_CLASS[Collector]	Biased	22.7177567	35306.149	0.00	0.9995
ROAD_CLASS[Expressway]	Biased	21.7678229	35306.149	0.00	0.9995
ROAD_CLASS[Laneway]	Biased	24.2131959	35306.149	0.00	0.9995
ROAD_CLASS[Local]	Biased	22.5544624	35306.149	0.00	0.9995
ROAD_CLASS[Major Arterial]	Biased	22.6301519	35306.149	0.00	0.9995
ROAD_CLASS[Major Arterial Ramp]	Biased	-136.03603	253887.45	0.00	0.9996
ROAD_CLASS[Minor Arterial]	Biased	22.4809029	35306.149	0.00	0.9995
ROAD_CLASS[Other]	Zeroed	0	0	.	.
LIGHT[Dark]		0.10797348	0.1709183	0.40	0.5276
LIGHT[Dark, artificial]		-0.4696495	0.173654	7.31	0.0068*
LIGHT[Dawn]		0.20952274	0.346259	0.37	0.5451
LIGHT[Dawn, artificial]		-0.3842372	0.3650334	1.11	0.2925
LIGHT[Daylight]		-0.2295281	0.1637789	1.96	0.1611
LIGHT[Daylight, artificial]		-0.4008061	0.3371658	1.41	0.2345
LIGHT[Dusk]		0.27821295	0.2548112	1.19	0.2749
LIGHT[Dusk, artificial]		-0.6192087	0.3417973	3.28	0.0700
TRUCK_Yes		1.38280345	0.0991019	194.70	<.0001*
AG_DRIV_Yes		-0.4265416	0.0751079	32.25	<.0001*
REDLIGHT_Yes		0.4024247	0.1366639	8.67	0.0032*
TRSN_CITY_VEH_Yes		0.89548618	0.1076115	69.25	<.0001*
EMERG_VEH_Yes	Unstable	-22.197082	37234.426	0.00	0.9995
PASSENGER_Yes		0.21680959	0.0718934	9.09	0.0026*
SPEEDING_Yes		1.19810198	0.0970292	152.47	<.0001*
Age Class[Adult]		-0.1091446	0.0665432	2.69	0.1010
Age Class[Child]		-0.157394	0.1804632	0.76	0.3831
Age Class[Elderly]		0.42699396	0.0685872	38.76	<.0001*
Age Class[Teen]		-0.2446483	0.1161012	4.44	0.0351*
VISIBILITY[Clear]	Unstable	8.37911569	11943.754	0.00	0.9994
VISIBILITY[Drifting Snow]	Unstable	-14.275368	47058.874	0.00	0.9998
VISIBILITY[Fog, Mist, Smoke, Dust]	Unstable	8.56397093	11943.754	0.00	0.9994
VISIBILITY[Freezing Rain]	Unstable	-13.791986	30650.166	0.00	0.9996
VISIBILITY[Other]	Unstable	9.93158585	11943.754	0.00	0.9993
VISIBILITY[Rain]	Unstable	8.30932675	11943.754	0.00	0.9994
VISIBILITY[Snow]	Unstable	7.41630348	11943.754	0.00	0.9995

For log odds of Fatal/Non-Fatal Injury

Effect Likelihood Ratio Tests

Source	Nparm	DF	ChiSquare	Prob>ChiSq
IMPACTYPE	9	9	255.316065	<.0001*
YEAR	1	1	40.0117894	<.0001*
CYCLIST_Yes	1	1	11.5589058	0.0007*
ROAD_CLASS	8	7	23.2883534	0.0015*
LIGHT	8	8	39.7584655	<.0001*

Nominal Logistic Fit for ACCLASS**Effect Likelihood Ratio Tests**

Source	Nparm	DF	L-R	
			ChiSquare	Prob>ChiSq
TRUCK_Yes	1	1	173.058111	<.0001*
AG_DRIV_Yes	1	1	33.2300413	<.0001*
REDLIGHT_Yes	1	1	8.41977831	0.0037*
TRSN_CITY_VEH_Yes	1	1	62.3375482	<.0001*
EMERG_VEH_Yes	1	1	5.70787925	0.0169*
PASSENGER_Yes	1	1	9.04455354	0.0026*
SPEEDING_Yes	1	1	148.788187	<.0001*
Age Class	4	4	68.4359342	<.0001*
VISIBILITY	7	7	58.0714271	<.0001*

Confusion Matrix

Training

Actual ACCLASS	Predicted Count	
	Fatal	Non-Fatal Injury
Fatal	62	1390
Non-Fatal Injury	51	9455

Validation

Actual ACCLASS	Predicted Count	
	Fatal	Non-Fatal Injury
Fatal	16	634
Non-Fatal Injury	26	4065