

ACCIDENT RESEARCH INSTITUTE (ARI)

The Accident Research Institute (previously known as Accident Research Centre) of BUET was financially sanctioned by the GoB for the period of 01.01.2002 to 31.12.2005 and later extended up to 30.06.2007. Consorting with University Grants Commission (UGC), ARI was embraced as an institute of BUET with BUET syndicate's decision on 18.06.2007 and transferred to Government Budget from 01.07.2007. Afterwards in 2010 new workforce for ARI was recruited. Now ARI is continuing its Education, Training, Research and Investigation activities from the University's budget allocation.

ARI with its own efforts is collecting Accident Report Forms (ARFs) from four metropolitan offices and six ranges of Bangladesh Police regularly and is maintaining a Microcomputer Accident Analysis Package (MAAP) based database which is substantially important for ARI's research, training and national road traffic accident statistics. It is to be noted that while collecting data from police offices ARI provides necessary supports regarding the software and training for accident data recording and reporting to concerned police personnel.

In addition to this, ARI conducts in-depth investigations on some major accidents on different national highways. ARI organizes various training programs based on database analyses, researches and investigations. For example, Heavy Vehicle Drivers' Training Program on Road Safety and Good Driving Practice (1 day Program, approximately 1,000 drivers), Training Program for Police Officers on Accident Event Recording and Reporting (1 day program, approximately 800 police officers) and Driving Instructors' Training Program (2 weeks program, approximately 80 instructors). ARI with collaboration of Dhaka Transport Coordination Board (DTCB) arranged a 5 day professional training program on Traffic Safety. ARI has also published Safe Driving Manual for driving instructors. Recently, ARI has signed an agreement with LGED through BRTC, BUET on 22 July 2014 to provide consultation services under the World Bank funded Second Rural Transport Improvement Project (RTIP-II). ARI is carrying out their tasks in accordance with accepted professional standards, utilizing sound engineering and socio-economic practices. The main tasks under this agreement are (i) Preparation of Rural Road Safety Manual, (ii) Preparation of Road Safety Training Manual for training-of-trainers (TOT), and (iii) Organization of Training Program for training-of-trainers (TOT). ARI will continue its endeavors regarding trainings and investigations depending on demand and availability of funds.

OVERVIEW OF ROAD TRAFFIC ACCIDENTS

Worldwide, the number of people killed in road traffic crashes is estimated to be 1.3 million, with another 50 million injured each year. More than 85 percent of these casualties and 96 percent of total child deaths, occur in low and middle income countries. Road traffic deaths are predicted to increase by 83 percent in low-income and middle-income countries (if no major action is taken) and to decrease by 27 percent in high-income countries over the next 20 years. Sustained declining trends in road fatalities in developed countries have been attributed to concerted efforts in many areas, including effective coordination, community

involvement, research on road safety initiatives, the promotion of good road safety practices and improved targeting of resources.

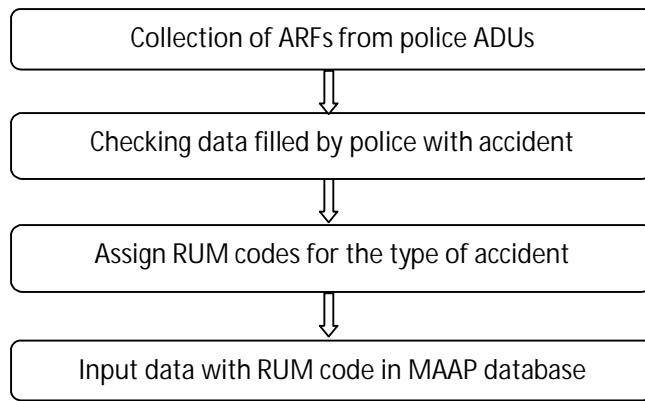
Road traffic accidents have now become a great social concern in Bangladesh and the situation is deteriorating. The annual economic wastage occasioned by traffic accidents is estimated to be in the order of 2 to 3 percent of the GDP. Each year, there are at least 3,000 fatalities and 3,000 grievous and simple injuries from around 3,500 police reported accidents on Bangladesh roads. Other sources estimated the fatalities as high as from 12,000 to 20,000 per year. Thus, the safety problem is very severe by international standards with some 60 to 150 fatalities per 10,000 motor vehicles in Bangladesh compared to around 25, 16, 2 and 1.4 in India, Srilanka, the USA and UK respectively.

Motor vehicle ownership has increased steadily in Bangladesh, at present it is about 2 to 10 vehicles per 1,000 persons. However, despite large growth in the number of motor vehicles, the country's transport demand is still predominantly met by non-motorised modes, particularly walk and rickshaws, and its level of motorisation is still far below compared to the levels of other countries, such as around 12, 25, 426 and 765 motor vehicles per 1,000 persons for India, Srilanka, UK and the USA respectively. Such growths together with other complementary urban hazards have resulted in substantial road traffic safety problems.

ROAD ACCIDENT DATABASE

In Bangladesh, Police is the core organization for road accident data collection and storage. Accident data collected by police provide basic information about the scale of accident problem in the country. For each accident the ARF is completed by a sub-inspector of police after visiting the accident spot. The ARF is then dispatched to the respective Accident Data Units (ADU) where the information from ARF and location of the accident is incorporated into MAAP. Ten regional ADUs were established during early 1998. These units are responsible for processing and analysis of accident data of their jurisdiction. Additionally, an ADU was established at police Headquarters' (HQ) to assemble the national accident database and to analyze accident data at national level. Data is sent from the regional ADUs to the police HQ in soft form. The MAAP system is used to analyze accident database and provide the pattern of accidents in the country.

The Accident Research Institute (ARI) of BUET essentially uses the MAAP database. This database was transferred to the institute with institutional collaboration of the Road Safety Cell (RSC) of BRTA and the Police department. The current road safety research and investigation works are based on this database. In order to strengthen the database information, it is important to add new variables and validate other variables as extracted from the ARFs. For the purpose of analysis and computerization it is required to store accident data in coded form. Structured coding is an essential requirement for accident research and investigation purpose. Such coding can be done either at the time of filling the forms or during data entry process. Precise knowledge regarding coding is key to traffic safety database development process. Road User Movement (RUM) codes, if applied carefully, may be helpful in overcoming the problems associated with accident type coding. In this regard, ARI is collecting ARFs from all ADUs to develop a rich accident database system by checking the ARFs and fill them with RUM codes including additional data which are missing in police filled ARFs.



CONCLUDING COMMENTS

The Accident Research Institute has identified and documented the striking road accident and injury problem characteristics and outlined strategies for improving road safety in this booklet. It recommended some proven and cost-effective measures for their implementation with due urgency in mitigating the problem and thereby achieve enhanced public safety on roads. Importantly it should be noted that improvement of road safety is a multi-disciplinary task and involves many sectors. Road safety can only be tackled effectively if the state takes a leading role and responsibility with due commitment by activating lead agencies in the relevant sectors with close collaboration and understanding. Indeed, strengthen the National Road Safety Council (NRSC) under the direct control of the Head of the Government with necessary further strengthening of its member organizations and sub-committees for the evaluation and the monitoring of the working agencies is needed.

TABLE 1: NUMBER OF ACCIDENT BY ACCIDENT SEVERITY

Year	Number of Accidents				
	Fatal	Grievous	Simple	Collision	TOTAL
1998	2000	1137	193	203	3533
1999	2437	986	305	220	3948
2000	2523	1029	209	209	3970
2001	2029	642	137	117	2925
2002	2599	904	200	238	3941
2003	2752	921	239	202	4114
2004	2509	683	216	158	3566
2005	2424	631	142	125	3322
2006	2695	602	124	145	3566
2007	2923	705	166	160	3954
2008	2842	676	154	128	3800
2009	2161	474	71	109	2815
2010	1911	387	62	77	2437
2011	1566	313	80	58	2017
2012	1515	284	86	54	1939
2013	1421	232	74	28	1755
Total	36307	10606	2458	2231	51602

TABLE 2: NUMBER OF CASUALTIES BY CASUALTY INJURY

Year	Number of Casualty			
	Fatal	Grievous	Simple	Total
1998	2358	2313	984	5655
1999	2893	2168	1301	6362
2000	3058	2270	1215	6543
2001	2388	1661	904	4953
2002	3053	2155	1130	6338
2003	3334	2421	1319	7074
2004	3150	2027	999	6176
2005	2960	1830	740	5530
2006	3250	1705	707	5662
2007	3341	1783	648	5772
2008	3570	1752	664	5986
2009	2703	1438	308	4449
2010	2443	1271	435	4149
2011	2072	1071	377	3520
2012	1953	850	492	3295
2013	1782	631	297	2710
Total	44308	27346	12520	84174

TABLE 3: NUMBER OF VEHICLES INVOLVED BY ACCIDENT SEVERITY

Year	Number of Vehicles Involved				
	Fatal	Grievous	Simple	Collision	Total
1998	2611	1737	312	368	5028
1999	3141	1485	493	400	5519
2000	3289	1563	327	371	5550
2001	2591	960	216	217	3984
2002	3316	1316	313	447	5392
2003	3591	1397	363	388	5739
2004	3270	1031	340	303	4944
2005	3086	937	211	235	4469
2006	3507	889	191	277	4864
2007	3785	1043	252	289	5369
2008	3783	1023	236	245	5287
2009	2937	716	115	208	3976
2010	2612	585	110	143	3450
2011	2150	475	124	103	2852
2012	2094	426	134	94	2748
2013	1927	346	115	47	2435
Total	47690	15929	3852	4135	66006

TABLE 4: NUMBER OF ACCIDENTS BY COLLISION TYPE

Year	Collision Type											TOTAL
	Head On	Rear End	Right Angle	Side Swipe	Overturn	Hit Object in Road	Hit Object off Road	Hit Parked Vehicle	Hit Pedestrian	Hit Animal	Other	
1998	467	624	64	272	282	38	74	57	1509	3	130	3520
1999	514	669	25	272	369	31	130	67	1729	1	139	3946
2000	538	684	59	196	356	32	118	76	1740	3	167	3969
2001	390	460	44	135	297	25	83	82	1283	1	124	2924
2002	481	595	60	251	399	34	106	99	1775	1	139	3940
2003	595	636	43	236	400	27	113	138	1757	3	158	4106
2004	553	517	30	224	279	30	75	77	1614	1	159	3559
2005	504	404	43	198	253	52	111	66	1543	2	134	3310
2006	538	453	41	190	290	34	70	69	1787	1	90	3563
2007	603	506	29	240	314	42	72	72	1931	5	138	3952
2008	609	547	30	233	277	36	72	113	1749	1	130	3797
2009	480	448	24	154	203	24	53	82	1245	3	92	2808
2010	448	384	15	114	168	12	45	50	1126	2	73	2437
2011	399	337	18	118	114	25	35	41	840	0	89	2016
2012	424	290	13	162	108	15	30	63	727	6	92	1930
2013	341	202	11	109	77	19	34	54	835	2	70	1754
Total	7884	7756	549	3104	4186	476	1221	1206	23190	35	1924	51531

TABLE 5: NUMBER OF ACCIDENTS BY NUMBER OF VEHICLES INVOLVED

	Single Vehicle	2 Vehicles	3 Vehicles	4 Vehicles	5 Vehicles	6 Vehicles	7 Vehicles	TOTAL
1998	2093	1398	36	1	3	2	0	3533
1999	2414	1505	24	4	0	0	1	3948
2000	2416	1535	15	3	0	0	1	3970
2001	1880	1031	14	0	0	0	0	2925
2002	2498	1436	6	1	0	0	0	3941
2003	2512	1583	15	4	0	0	0	4114
2004	2218	1321	24	3	0	0	0	3566
2005	2186	1125	11	0	0	0	0	3322
2006	2293	1253	18	1	0	0	1	3566
2007	2573	1358	16	4	2	1	0	3954
2008	2339	1441	14	6	0	0	0	3800
2009	1681	1113	16	4	1	0	0	2815
2010	1453	962	18	1	3	0	0	2437
2011	1212	777	26	2	0	0	0	2017
2012	1144	781	12	2	0	0	0	1939
2013	1087	656	12	0	0	0	0	1755
Total	31999	19275	277	36	9	3	3	51602

TABLE 6: NUMBER OF ACCIDENTS BY YEAR IN DIFFERENT DISTRICTS

DISTRICT	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	TOTAL
Bager	96	32	29	10	8	0	28	29	42	36	15	25	19	19	388
Banda	13	14	5	9	13	10	7	13	20	15	11	2	4	13	149
Bargu	19	9	14	15	9	9	18	25	33	11	27	23	23	21	256
Baris	30	8	23	41	26	42	27	31	31	49	57	54	38	30	487
Bhola	16	8	20	26	20	25	14	20	18	21	10	42	29	13	282
BMP	0	0	0	0	0	0	0	0	0	0	0	0	21	11	32
Bogra	33	31	64	67	41	45	48	111	81	100	100	61	71	34	887
Brahm	68	48	15	53	42	36	29	53	87	71	42	12	45	44	645
Chand	21	21	41	37	37	43	28	41	15	29	8	22	20	20	383
Chitt	134	97	77	146	134	106	129	147	117	70	67	15	48	56	1343
Chuad	21	7	7	19	0	0	22	37	29	8	11	16	10	8	195

CMP	111	66	128	117	67	97	117	158	102	81	113	107	77	73	1414
Comil	78	0	68	201	174	105	73	95	91	77	19	3	65	52	1101
Cox's	61	66	41	35	49	35	23	12	31	12	15	11	26	20	437
Dhaka	60	58	86	105	78	73	141	179	99	38	60	107	8	29	1121
Dinaj	54	46	45	36	43	47	56	25	28	33	25	9	13	26	486
DMP	851	519	876	828	668	496	603	565	642	525	458	400	372	341	8144
Farid	61	58	76	54	84	69	69	112	93	80	48	27	16	16	863
Feni	17	24	78	80	120	116	59	49	41	2	33	5	0	34	658
Gaiba	35	35	31	38	32	33	36	38	38	37	13	17	25	25	433
Gazip	38	30	86	53	65	65	130	68	34	71	44	57	15	27	783
Gopal	55	71	57	62	42	48	16	32	27	17	17	9	7	6	466
Habig	71	64	73	55	57	59	63	78	56	39	44	38	42	50	789
Jaipu	3	18	23	20	12	20	12	22	20	11	7	0	5	2	175
Jamal	18	12	23	13	9	8	15	39	33	12	23	17	17	6	245
Jesso	96	65	84	78	38	13	30	28	61	31	30	18	23	11	606
Jhala	24	18	8	12	8	6	10	13	8	9	17	11	13	10	167
Jhena	59	45	84	51	33	45	55	55	26	22	17	16	13	13	534
Khagr	28	24	0	17	13	20	22	22	27	34	19	18	0	18	262
Khuln	32	8	2	4	16	21	26	27	22	25	12	19	18	23	255
Kisho	41	38	71	56	75	32	64	69	66	29	35	31	33	3	643
KMP	42	40	48	31	15	18	42	67	29	41	39	28	19	21	480
Kurig	23	11	20	17	28	22	25	17	14	8	12	6	4	10	217
Kusht	1	22	36	19	2	2	14	32	76	8	35	43	30	48	368
Laksh	15	5	14	33	37	22	30	40	19	24	14	5	5	0	263
Lalma	18	25	13	12	27	29	15	29	24	36	35	22	18	12	315
Madar	27	25	15	17	13	23	30	9	51	22	10	15	1	0	258
Magur	26	24	12	13	22	24	18	19	20	10	16	13	8	6	231
Manik	54	42	60	80	77	63	76	38	30	75	57	31	33	53	769

Meher	14	10	5	9	7	10	11	8	9	4	6	6	3	8	110
Moula	85	60	65	47	36	51	44	52	53	53	28	18	30	27	649
Munsh	79	60	49	103	72	74	87	32	12	16	11	6	7	16	624
Mymen	99	102	111	143	104	50	69	172	144	53	30	19	37	0	1133
Naoga	69	66	48	55	41	50	48	51	50	43	45	34	40	12	652
Narai	6	3	0	6	3	5	11	5	12	7	4	1	1	1	65
Naray	116	65	102	146	151	152	142	126	119	54	57	62	0	17	1309
Narsi	78	69	56	74	92	67	77	74	103	88	37	23	45	35	918
Nator	49	63	69	67	51	51	75	59	70	25	21	13	31	15	659
Nawab	28	43	27	15	17	14	12	35	73	30	32	35	24	8	393
Netra	28	17	15	30	21	16	32	44	21	1	14	12	4	10	265
Nilph	28	24	26	31	32	22	4	18	16	7	15	17	13	5	258
Noakh	38	6	8	52	35	45	29	43	40	15	20	5	19	11	366
Pabna	51	72	94	61	66	57	29	38	56	47	38	0	28	23	660
Panch	18	22	13	17	14	18	23	23	14	13	2	7	7	3	194
Patua	11	16	15	21	22	22	27	20	7	15	5	15	17	26	239
Piroj	12	8	9	4	4	8	5	17	18	10	16	15	10	10	146
Rajba	34	14	23	40	46	37	51	51	77	11	20	23	15	27	469
Rajsh	72	59	76	54	65	55	35	56	52	42	31	24	24	22	667
Ranga	17	12	9	16	13	26	18	19	14	18	13	1	6	5	187
Rangp	69	0	93	38	56	143	109	65	62	70	28	3	39	20	795
RMP	42	47	48	55	53	49	33	47	58	28	23	22	18	21	544
Satk	35	19	27	25	1	0	8	21	17	16	40	22	13	20	264
Shari	11	15	22	8	14	13	22	9	16	17	10	12	17	15	201
Sherp	23	21	33	31	31	27	29	16	22	23	26	16	12	17	327
Siraj	98	4	89	82	57	54	88	129	84	75	44	42	65	50	961
SMP	0	0	0	0	0	0	0	0	0	0	0	0	28	21	49
Sunam	41	44	42	43	23	29	30	57	51	30	36	33	30	28	517

Sylhe	156	138	163	156	134	156	83	89	78	65	87	83	41	24	1453
Tanga	86	98	127	114	52	84	92	105	147	94	66	58	70	46	1239
Thaku	27	14	24	11	19	10	23	29	22	22	19	35	11	8	274
TOTAL	3970	2925	3941	4114	3566	3322	3566	3954	3798	2811	2439	2017	1939	1755	44117

TABLE 7: NUMBER OF ACCIDENTS BY DAY IN WEEK

Year	DAY IN WEEK								TOTAL
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday		
1998	518	488	488	564	477	489	509	3533	
1999	563	508	559	579	532	632	575	3948	
2000	595	584	522	621	541	524	583	3970	
2001	408	410	423	416	444	427	397	2925	
2002	557	537	574	611	542	567	552	3940	
2003	593	609	573	598	619	544	578	4114	
2004	509	548	482	510	578	472	467	3566	
2005	474	508	438	479	479	442	502	3322	
2006	478	473	511	506	550	510	538	3566	
2007	546	535	582	597	579	529	586	3954	
2008	546	536	517	585	565	518	533	3800	
2009	409	406	420	411	391	405	373	2815	
2010	363	327	364	371	360	306	346	2437	
2011	269	305	292	276	300	272	303	2017	
2012	272	304	262	253	298	272	278	1939	
2013	244	264	212	251	270	282	232	1755	
Total	7344	7342	7219	7628	7525	7191	7352	51601	

TABLE 8: NUMBER OF ACCIDENTS BY MONTH

Year	Month												TOTAL
	Jan	Feb	March	April	May	June	July	August	Sep	October	Nov	Dec	
1998	311	316	361	307	308	338	317	281	234	227	251	282	3533
1999	364	336	366	306	350	335	363	335	295	320	275	303	3948
2000	405	348	368	317	354	371	347	282	294	307	311	266	3970
2001	350	230	308	231	300	240	213	230	196	196	215	216	2925
2002	361	332	386	338	360	284	315	317	292	327	281	348	3941
2003	337	334	373	341	393	327	395	335	343	356	345	235	4114
2004	367	328	329	282	300	300	311	259	242	283	272	293	3566
2005	327	288	306	284	337	317	289	269	239	200	259	207	3322
2006	347	291	320	321	330	288	271	288	243	299	249	319	3566
2007	322	310	443	389	387	315	339	278	289	342	263	277	3954
2008	399	318	377	327	356	271	303	304	299	314	267	265	3800
2009	276	288	248	295	232	258	212	213	222	184	190	197	2815

2010	216	210	232	212	227	191	192	192	192	200	198	175	2437
2011	197	196	199	163	198	148	188	149	150	134	144	151	2017
2012	181	199	215	174	183	176	156	135	114	157	121	128	1939
2013	140	124	146	140	165	174	160	182	149	152	112	111	1755
Total	4900	4448	4977	4427	4780	4333	4371	4049	3793	3998	3753	3773	51602

TABLE 9: NUMBER OF ACCIDENTS BY TIME OF DAY

Year	Time (hours)												TOTAL
	00~02	02~04	04~06	06~08	08~10	10~12	12~14	14~16	16~18	18~20	20~22	22~24	
1998	96	84	115	309	427	513	420	405	456	298	232	164	3519
1999	105	99	160	283	413	607	532	493	509	320	224	185	3930
2000	134	93	156	298	426	603	497	463	534	306	252	176	3938
2001	79	78	111	225	325	445	372	354	386	214	176	136	2901
2002	117	106	186	307	432	609	526	455	492	303	238	151	3922
2003	146	122	204	304	424	617	505	490	510	319	268	184	4093
2004	245	116	151	296	396	533	437	359	389	262	221	136	3541
2005	378	129	179	274	353	484	371	317	321	209	159	118	3292
2006	136	131	188	334	400	497	406	406	426	253	216	149	3542
2007	148	151	225	332	443	589	497	425	459	291	238	142	3940
2008	152	122	207	298	450	551	472	358	480	321	226	147	3784
2009	110	94	141	246	304	385	335	336	294	249	186	128	2808
2010	108	101	127	201	268	336	307	241	258	209	158	116	2430
2011	104	70	99	151	206	256	259	200	253	164	140	101	2003
2012	91	81	121	186	208	235	228	200	209	144	137	92	1932
2013	116	73	90	145	169	226	175	160	165	155	160	114	1748
Total	2265	1650	2460	4189	5644	7486	6339	5662	6141	4017	3231	2239	51323

TABLE 10: NUMBER OF ACCIDENTS BY JUNCTION TYPE

Year	Junction Type							TOTAL
	Not Junction	Cross	T Junction	Staggered	Roundabout	Rail crossing	Other	
1998	2623	247	357	22	104	12	123	3488
1999	3154	222	344	25	91	9	99	3944
2000	3211	208	330	47	11	11	148	3966
2001	2382	99	206	26	20	7	176	2916
2002	3117	154	301	38	67	18	216	3911
2003	2993	161	311	39	55	9	448	4016
2004	2535	129	271	36	66	11	437	3485
2005	2265	142	246	30	55	9	468	3215
2006	2630	177	243	38	23	6	362	3479
2007	2534	195	319	65	20	8	774	3915
2008	2523	269	301	44	21	8	617	3783
2009	1676	167	234	47	19	8	634	2785

2010	1755	168	215	34	19	4	240	2435
2011	1394	130	210	42	22	6	212	2016
2012	1256	120	150	34	14	4	337	1915
2013	965	104	136	21	23	9	489	1747
Total	37013	2692	4174	588	630	139	5780	51016

TABLE 11: NUMBER OF ACCIDENTS BY TRAFFIC CONTROL SYSTEM

Year	None	Centre Line	Pedestrian crossing	Police controlled	Signal controlled	Police + Signal controlled	Stop sign controlled	Other	TOTAL
1998	2716	116	48	152	19	321	4	121	3497
1999	3252	105	60	124	8	304	9	80	3942
2000	3406	79	37	159	27	140	6	108	3962
2001	2480	60	37	142	47	54	7	92	2919
2002	3218	60	67	202	31	156	3	187	3924
2003	3194	112	112	248	20	108	4	260	4058
2004	2834	45	77	159	22	125	4	258	3524
2005	2573	84	77	167	22	89	11	244	3267
2006	2860	64	82	281	7	16	9	207	3526
2007	2878	81	159	272	16	21	6	488	3921
2008	2860	72	144	247	11	24	8	384	3750
2009	2053	43	103	227	23	16	5	324	2794
2010	1926	32	64	208	18	16	5	167	2436
2011	1463	43	58	207	18	21	3	202	2015
2012	1367	57	59	192	9	18	6	204	1912
2013	1184	51	87	159	14	26	2	213	1736
Total	40264	1118	1213	3146	312	1455	92	3539	51183

TABLE 12: NUMBER OF ACCIDENTS IN DIFFERENT WEATHER CONDITION

Year	Fair	Rain	Wind	Fog	TOTAL
1998	3374	104	2	43	3523
1999	3728	170	11	39	3948
2000	3751	144	13	62	3970
2001	2757	111	4	53	2925
2002	3713	150	7	71	3941
2003	3844	174	10	83	4111
2004	3373	126	2	62	3563
2005	3149	107	8	46	3310
2006	3390	89	11	72	3562
2007	3689	198	6	56	3949
2008	3563	139	6	91	3799
2009	2625	88	6	90	2809
2010	2324	58	6	49	2437
2011	1902	63	3	49	2017
2012	1795	89	5	49	1938
2013	1665	53	10	26	1754
Total	46740	1863	110	941	51556

TABLE 13: NUMBER OF ACCIDENTS IN DIFFERENT LIGHTING CONDITION

Year	Day	Dawn/Dusk	Night with road lighten	Night with road unlighted	TOTAL
1998	2471	429	373	246	3519
1999	2760	512	336	339	3947
2000	2740	498	376	352	3966
2001	2002	397	222	301	2922
2002	2745	481	382	331	3939
2003	2775	557	382	389	4103
2004	2444	471	296	342	3553
2005	2315	426	272	287	3300
2006	2483	375	291	413	3562
2007	2847	414	355	328	3944
2008	2625	503	345	322	3795
2009	1858	390	279	276	2803
2010	1624	311	263	238	2436
2011	1334	285	226	171	2016
2012	1277	292	188	181	1938
2013	1204	264	154	129	1751
Total	35504	6605	4740	4645	51494

TABLE 14: NUMBER OF ACCIDENTS BY ROAD GEOMETRY

Year	Straight	Curve	Slope	Curve + Slope	Crest	TOTAL
1998	3261	172	46	29	12	3520
1999	3606	214	75	36	15	3946
2000	3588	254	64	50	13	3969
2001	2621	195	52	43	12	2923
2002	3649	206	45	27	11	3938
2003	3799	220	27	42	11	4099
2004	3294	177	40	30	10	3551
2005	3030	174	43	34	17	3298
2006	3293	181	40	37	6	3557
2007	3576	230	55	47	14	3922
2008	3358	267	81	67	19	3792
2009	2500	177	50	57	14	2798
2010	2186	154	44	47	6	2437
2011	1797	156	32	24	6	2015
2012	1723	149	24	29	9	1934
2013	1571	119	31	29	4	1754
Total	46852	3045	749	628	179	51453

TABLE 15: NUMBER OF ACCIDENTS BY ROAD SURFACE CONDITION

Year	Dry	Wet	Muddy	Flood	Other	TOTAL
1998	3386	122	8	0	4	3520
1999	3762	169	5	1	11	3948
2000	3766	170	14	3	16	3969
2001	2787	116	4	0	15	2922
2002	3741	177	7	0	13	3938
2003	3888	189	7	2	19	4105
2004	3406	131	3	0	17	3557
2005	3149	121	9	3	12	3294
2006	3447	89	5	2	13	3556
2007	3699	193	12	2	26	3932
2008	3576	168	11	5	35	3795
2009	2639	104	5	2	47	2797
2010	2338	68	2	0	29	2437
2011	1903	78	11	0	24	2016
2012	1806	99	3	0	23	1931
2013	1677	60	3	1	13	1754
Total	48970	2054	109	21	317	51471

TABLE 16: NUMBER OF ACCIDENTS BY ROAD SURFACE TYPE

Year	Sealed	Brick	Earth	TOTAL
1998	3449	37	36	3522
1999	3858	49	41	3948
2000	3836	65	67	3968
2001	2849	41	32	2922
2002	3851	49	38	3938
2003	4025	35	43	4103
2004	3482	37	39	3558
2005	3245	31	30	3306
2006	3469	38	50	3557
2007	3869	36	32	3937
2008	3711	39	43	3793
2009	2750	20	31	2801
2010	2386	28	23	2437
2011	1970	20	25	2015
2012	1879	38	15	1932
2013	1724	16	13	1753
Total	50353	579	558	51490

TABLE 17: NUMBER OF ACCIDENTS BY ROAD SURFACE QUALITY

Year	Good	Rough	Repair	TOTAL
1998	3426	72	22	3520
1999	3803	109	35	3947
2000	3781	126	63	3970
2001	2779	110	31	2920
2002	3764	123	51	3938
2003	3906	125	65	4096
2004	3364	98	91	3553
2005	3176	91	32	3299
2006	3407	106	40	3553
2007	3776	123	30	3929
2008	3593	155	35	3783
2009	2668	97	36	2801
2010	2330	84	23	2437
2011	1902	91	23	2016
2012	1799	99	34	1932
2013	1664	67	22	1753
Total	49138	1676	633	51447

TABLE 18: NUMBER OF ACCIDENTS IN DIFFERENT LOCATION OF ROAD & ROAD CLASS

Year	Number of Accidents								
	Location of Road			Road Class					
	Urban	Rural	Total	National	Regional	Feeder	Rural	City	Total
1998	1754	1743	3497	1086	393	363	184	1483	3509
1999	1499	2439	3938	1542	473	573	210	1145	3943
2000	1504	2451	3955	1512	468	656	245	1083	3964
2001	960	1948	2908	1131	418	494	206	671	2920
2002	1366	2557	3923	1451	470	693	222	1103	3939
2003	1413	2662	4075	1677	547	564	256	1058	4102
2004	1079	2435	3514	1637	440	480	198	801	3556
2005	854	2394	3248	1539	490	339	288	660	3316
2006	1080	2409	3489	1656	453	553	272	609	3543
2007	1456	2401	3857	1732	553	696	307	653	3941
2008	1394	2329	3723	1841	501	454	376	617	3789
2009	1156	1630	2786	1269	403	386	263	487	2808
2010	1033	1371	2404	1008	394	282	274	477	2435
2011	923	1031	1954	897	291	162	234	430	2014
2012	751	1130	1881	988	255	138	193	342	1916
2013	625	1097	1722	875	157	192	149	381	1754
Total	18847	32027	50874	21841	6706	7025	3877	12000	51449

TABLE 19: NUMBER OF ACCIDENTS BY DIFFERENT ROAD FEATURE

Year	None	Bridge	Culvert	Narrowing/Restriction	Speed Breakers	TOTAL
1998	3389	58	15	32	4	3498
1999	3821	56	21	34	10	3942
2000	3833	65	19	40	6	3963
2001	2809	49	25	29	9	2921
2002	3784	67	27	48	8	3934
2003	3967	65	21	30	10	4093
2004	3418	57	24	32	4	3535
2005	3162	56	15	26	3	3262
2006	3399	80	21	21	4	3525
2007	3742	74	18	25	12	3871
2008	3590	79	28	37	23	3757
2009	2672	52	19	28	21	2792
2010	2341	55	12	18	7	2433
2011	1874	83	15	20	12	2004
2012	1781	79	8	19	21	1908
2013	1652	44	12	19	18	1745
Total	49234	1019	300	458	172	51183

TABLE 20: NUMBER OF ACCIDENTS AND CASUALTIES ON DIFFERENT NATIONAL HIGHWAYS OF BANGLADESH

Year	N1 (455 km)		N2 (286 km)		N3 (112 km)		N4 (146 km)		N5 (507 km)		N6 (150 km)		N7 (252 km)		N8 (191 km)		N9 (43.1 km)	
	Accide nt	Casual ty	Accide nt	Casual ty	Accide nt	Casual ty	Accide nt	Casual ty	Accide nt	Casual ty	Accide nt	Casual ty	Accide nt	Casual ty	Accide nt	Casual ty	Accide nt	Casual ty
1998	150	293	137	222	36	79	82	29	38	583	0	161	16	149	285	76	97	0
1999	233	417	237	395	94	152	121	228	57	444	44	187	104	270	279	101	96	94
2000	192	406	182	337	54	116	189	184	50	385	57	102	93	372	218	89	65	149
2001	128	299	156	294	56	117	133	181	36	227	21	130	82	246	138	71	81	43
2002	262	518	133	258	81	166	195	297	42	529	42	146	131	322	273	74	77	98
2003	126	231	115	253	90	178	138	317	66	526	42	137	123	295	270	141	66	152
2004	411	811	180	351	83	152	116	141	38	591	6	155	54	276	287	92	80	11
2005	343	674	134	257	27	74	83	237	71	543	18	93	113	133	291	138	51	27
2006	288	555	115	151	80	130	72	156	118	543	42	109	97	132	316	192	57	85
2007	258	520	131	183	103	144	63	132	100	393	17	70	90	78	273	145	50	28
2008	229	397	178	350	79	165	91	131	110	325	29	104	79	144	187	178	64	76
2009	124	212	158	275	62	119	46	176	64	378	39	40	70	108	201	132	23	56
2010	106	191	109	238	32	69	39	119	41	277	25	35	49	95	140	87	22	54
2011	38	69	41	111	52	79	39	74	95	177	22	43	32	98	40	80	20	49
2012	75	168	67	138	19	22	34	65	140	257	24	44	31	51	43	73	24	50
2013	112	187	2	3	5	8	2	11	82	155	11	31	24	56	35	64	8	14

TABLE 21: NUMBER OF CASUALTIES BY COLLISION TYPE

Year	Collision Type											TOTAL
	Head On	Rear End	Right Angle	Side Swipe	Overturn	Hit Object in Road	Hit Object off Road	Hit Parked Vehicle	Hit Pedestrian	Hit Animal	Other	
1998	1158	985	97	397	763	49	195	120	1697	0	171	5632
1999	1304	1028	55	444	974	43	262	109	1933	7	202	6361
2000	1448	1037	99	362	984	39	252	136	1950	3	232	6542
2001	1056	717	59	271	885	40	205	149	1430	1	139	4952
2002	1287	842	62	431	1217	43	223	121	1949	1	160	6336
2003	1648	986	64	424	1361	46	216	223	1896	6	193	7063
2004	1563	842	47	406	962	69	143	159	1730	0	241	6162
2005	1326	676	49	342	750	85	274	101	1694	6	215	5518
2006	1337	681	66	368	803	51	137	131	1971	1	112	5658
2007	1349	753	47	332	711	62	134	133	2058	6	184	5769
2008	1473	795	31	362	768	73	138	234	1933	1	175	5983
2009	1195	668	38	250	521	49	113	143	1345	8	113	4443
2010	1172	624	43	192	528	24	135	100	1227	3	101	4149
2011	1003	586	23	250	417	44	68	67	939	0	117	3517
2012	1073	462	18	244	349	29	44	120	799	12	128	3278
2013	815	374	19	172	143	25	43	102	918	2	95	2708
Total	20207	12056	817	5247	12136	771	2582	2148	25469	57	2578	84071

TABLE 22: NUMBER OF DRIVER, PASSENGER AND PEDESTRIAN CASUALTIES BY YEAR

Year	Driver Casualty				Passenger Casualty				Pedestrian Casualty			
	Fatal	Grievous	Simple	TOTAL	Fatal	Grievous	Simple	TOTAL	Fatal	Grievous	Simple	TOTAL
1998	315	537	263	1115	848	1204	645	2697	1195	572	76	1843
1999	397	401	304	1102	1079	1266	863	3208	1417	501	134	2052
2000	414	432	287	1133	1212	1341	826	3379	1432	497	102	2031
2001	344	298	185	827	859	1016	659	2534	1185	347	60	1592
2002	421	391	239	1051	1059	1272	821	3152	1573	492	70	2135
2003	499	455	267	1221	1243	1525	980	3748	1592	441	72	2105
2004	443	322	249	1014	1168	1338	676	3182	1539	367	74	1980
2005	392	311	161	864	1077	1126	501	2704	1491	393	78	1962
2006	482	286	160	928	1121	1056	486	2663	1647	363	61	2071
2007	477	310	166	953	1001	1101	405	2507	1863	372	77	2312
2008	557	321	224	1102	1308	1084	360	2752	1705	347	80	2132
2009	487	278	109	874	1019	891	163	2073	1197	269	36	1502

2010	392	234	108	734	964	820	300	2084	1087	217	27	1331
2011	349	215	105	669	837	651	236	1724	886	205	36	1127
2012	326	179	160	665	785	500	292	1577	842	171	40	1053
2013	308	124	111	543	641	352	158	1151	833	155	28	1016
Total	6603	5094	3098	14795	16221	16543	8371	41135	21484	5709	1051	28244

TABLE 23: NUMBER OF VEHICLES BY YEAR

Year	Cycle	Rickshaw	Push Cart	Motor Cycle	Baby Taxi	Tempo	Micro Bus	Mini Bus	Bus	Car	Jeep	Pick Up	Truck	Heav Truck	Articulated Truck	Oil Tanker	Tractor	Animal drawn	Other	TOTAL
1998	125	285	26	181	382	321	224	538	912	349	86	87	67	1139	9	11	39	3	99	4883
1999	163	279	20	222	257	323	266	480	1164	305	125	145	102	1355	15	20	49	3	98	5391
2000	185	264	16	246	218	298	271	512	1162	262	129	121	172	1273	19	34	65	7	198	5452
2001	144	179	8	203	114	177	156	373	873	181	83	99	106	1012	8	15	46	6	163	3946
2002	163	245	11	249	140	217	249	595	1229	321	100	143	144	1217	25	24	56	1	204	5333
2003	146	265	10	273	148	191	242	642	1347	351	109	200	147	1249	21	32	65	2	225	5665
2004	117	209	10	236	122	175	203	488	1268	293	85	147	148	1021	29	22	63	2	228	4866
2005	96	142	11	240	146	122	172	436	1079	232	95	146	153	931	19	20	48	1	266	4355
2006	149	203	20	327	128	168	160	403	1279	192	89	155	185	931	29	20	84	2	222	4746
2007	167	214	21	343	164	200	190	397	1379	214	79	167	167	967	13	16	81	1	373	5153
2008	163	188	20	441	164	184	211	354	1293	254	50	134	161	884	17	19	86	11	342	4976
2009	107	124	10	382	114	121	154	267	866	186	70	119	139	711	21	19	67	4	360	3841
2010	95	103	4	362	149	91	138	250	725	159	39	114	130	539	22	12	64	6	333	3335
2011	85	100	10	333	110	92	96	190	556	123	31	97	89	446	13	14	65	6	296	2752
2012	76	62	5	363	121	94	91	138	569	92	31	116	108	456	13	21	58	5	218	2629
2013	41	70	4	332	105	71	50	112	466	83	44	97	109	395	9	13	45	3	336	2385
Total	2022	2932	206	4733	2582	2845	2873	6175	16167	3597	1245	2087	2127	14526	282	312	981	63	3961	69708

TABLE 24: NUMBER OF VEHICLES BY VEHICLE MANUEVER

YEAR	Left Turn	Right Turn	U Turn	Cross	Over Turn	Ahead	Reverse	Start	Stop	Park	Other	TOTAL
1998	151	167	16	88	183	3948	21	21	80	85	124	4884
1999	157	142	11	100	203	4546	18	18	70	110	60	5435
2000	115	131	18	105	210	4609	21	26	31	130	108	5504
2001	114	99	16	55	138	3272	17	19	33	88	109	3960
2002	129	87	22	71	148	4645	17	13	14	90	111	5347
2003	137	110	13	140	204	4495	25	25	27	132	260	5568
2004	148	97	18	152	164	3877	28	26	20	83	215	4828
2005	143	102	20	118	140	3498	32	21	29	62	189	4354
2006	148	118	27	94	189	3842	20	31	20	81	195	4765
2007	136	155	23	128	202	3998	49	34	43	84	331	5183
2008	191	133	13	146	224	3838	43	29	33	114	327	5091
2009	119	109	27	98	127	3018	22	17	20	80	273	3910
2010	71	76	8	81	181	2800	20	15	13	65	101	3431
2011	97	75	10	79	182	2068	27	26	22	28	184	2798
2012	107	71	16	71	192	1767	39	12	22	45	287	2629
2013	80	83	18	53	157	1475	19	12	20	44	439	2400
Total	2043	1755	276	1579	2844	55696	418	345	497	1321	3313	70087

TABLE 25: NUMBER OF VEHICLES BY LOADING CONDITION

YEAR	OK	Bad	TOTAL
1998	4495	210	4705
1999	5063	224	5287
2000	4794	295	5089
2001	3312	188	3500
2002	4601	188	4789
2003	4824	214	5038
2004	4290	160	4450
2005	3901	137	4038
2006	3861	199	4060
2007	4441	214	4655
2008	4573	250	4823
2009	3369	257	3626
2010	3099	226	3325
2011	2455	243	2698
2012	2123	375	2498
2013	2014	189	2203
Total	61215	3569	64784

TABLE 26: NUMBER OF VEHICLES BY VEHICLE DEFECTS

YEAR	None	Light	Brake	Steer	Tyres	Multi	Other	TOTAL
1998	2463	13	53	6	7	29	97	2668
1999	4322	13	41	3	8	19	112	4518
2000	4293	16	61	10	10	22	100	4512
2001	3132	13	48	1	9	22	183	3408
2002	4499	13	30	8	4	22	161	4737
2003	4403	21	49	8	11	66	325	4883
2004	3845	19	52	4	10	59	313	4302
2005	3555	11	28	7	5	34	304	3944
2006	3224	21	64	9	17	81	574	3990
2007	3145	28	61	11	15	62	1263	4585
2008	3708	39	94	10	7	64	841	4763
2009	2604	22	202	14	13	139	597	3591
2010	2496	26	225	11	12	109	428	3307
2011	1938	36	200	19	9	113	385	2700
2012	1645	37	55	9	6	59	709	2520
2013	1259	12	82	6	5	40	829	2233
Total	50531	340	1345	136	148	940	7221	60661

TABLE 27: NUMBER OF VEHICLES BY VEHICLE DAMAGE

YEAR	None	Front	Rear	Right	Left	Roof	Multi	Other	TOTAL
1998	2480	732	223	127	91	7	1011	58	4729
1999	2712	971	254	118	73	5	1114	70	5317
2000	2703	966	257	108	63	14	1161	88	5360
2001	1880	660	152	68	41	6	852	99	3758
2002	2770	836	221	134	45	9	984	120	5119
2003	2499	1034	270	128	67	15	1038	181	5232
2004	2182	813	217	83	42	12	783	407	4539
2005	1950	681	143	85	43	12	520	655	4089
2006	2116	790	185	69	36	11	839	239	4285
2007	2473	761	204	63	53	10	829	528	4921
2008	2123	820	268	75	41	13	1035	513	4888
2009	1581	720	226	58	35	14	696	347	3677
2010	1436	660	182	56	30	12	692	264	3332
2011	1173	594	161	43	30	11	455	230	2697
2012	892	610	137	49	41	16	362	448	2555
2013	758	439	87	36	25	5	316	654	2320
Total	31728	12087	3187	1300	756	172	12687	4901	66818

TABLE 28: NUMBER OF CASUALTIES (ALL CASUALTY) BY GENDER

YEAR	Male	Female	TOTAL
1998	4783	837	5620
1999	5441	882	6323
2000	5639	853	6492
2001	4293	625	4918
2002	5582	726	6308
2003	6191	831	7022
2004	5354	725	6079
2005	4925	577	5502
2006	4988	604	5592
2007	4793	861	5654
2008	5032	819	5851
2009	3751	660	4411
2010	3300	654	3954
2011	2847	2601	3435
2012	2601	477	3078
2013	2211	423	2634
Total	71731	13155	82873

TABLE 29: NUMBER OF PASSENGER AND PEDESTRIAN CASUALTIES BY GENDER

Year	Passenger Casualty			Pedestrian Casualty		
	Male	Female	TOTAL	Male	Female	TOTAL
1998	2252	418	2670	1419	418	1837
1999	2732	446	3178	1609	435	2044
2000	2889	442	3331	1619	411	2030
2001	2220	305	2525	1251	318	1569
2002	2839	305	3144	1703	414	2117
2003	3328	383	3711	1648	447	2095
2004	2755	344	3099	1592	380	1972
2005	2387	305	2692	1681	272	1953
2006	2344	268	2612	1728	335	2063
2007	2035	383	2418	1812	478	2290
2008	2299	367	2666	1642	452	2094
2009	1682	365	2047	1203	291	1494
2010	1541	364	1905	1033	289	1322
2011	1347	300	1647	836	285	114
2012	1145	243	1388	804	226	1030
2013	887	224	1111	787	197	984
Total	34682	5462	40144	22367	5648	27008

TABLE 30: NUMBER OF DRIVER CASUALTIES BY ALCOHOL USE

YEAR	Suspected	Not Suspected	TOTAL
1998	436	3121	3557
1999	385	3764	4149
2000	413	3967	4380
2001	281	2985	3266
2002	403	3676	4079
2003	484	4191	4675
2004	387	3542	3929
2005	362	2978	3340
2006	348	2917	3265
2007	254	2830	3084
2008	262	3387	3649
2009	327	1928	2255
2010	241	2438	2679
2011	286	1902	2188
2012	310	1590	1900
2013	96	422	518
Total	5275	45638	50913

TABLE 31: NUMBER OF DRIVER CASUALTIES BY SEAT BELT/HELMET USE

YEAR	Worn	Not	TOTAL
1998	82	3614	3696
1999	112	4075	4187
2000	122	4297	4419
2001	82	3196	3278
2002	57	4029	4086
2003	65	4650	4715
2004	62	3908	3970
2005	51	3309	3360
2006	55	3330	3385
2007	66	3055	3121
2008	100	3551	3651
2009	82	2181	2263
2010	61	2623	2684
2011	87	2100	2187
2012	59	1859	1918
2013	33	487	520
Total	1176	50264	51440

TABLE 32: NUMBER OF CASUALTIES IN ROAD ACCIDENT BY CASUALTY CLASS

	1998				1999				2000				2001				2002			
	Fatal	Grievous	Simple	Total	Fatal	Grievous	Simple	Total	Fatal	Grievous	Simple	Total	Fatal	Grievous	Simple	Total	Fatal	Grievous	Simple	Total
Pedestrian	1195	572	76	1843	1417	501	134	2052	1432	497	102	2031	1185	347	60	1592	1573	492	70	2135
Cycle	83	56	6	145	107	60	13	180	132	54	13	199	107	45	9	161	121	47	8	176
Rickshaw	111	258	59	428	127	190	90	407	124	193	51	368	104	132	39	275	164	145	55	364
Pushcart	13	19	2	34	15	8	1	24	9	15	3	27	3	4	1	8	7	5	2	14
Motor Cycle	69	83	22	174	84	104	35	223	103	130	40	273	92	82	13	187	100	117	21	238
Baby Taxi	84	299	88	471	89	139	97	325	75	151	60	286	40	78	48	166	57	99	40	196
Tempo	131	153	101	385	138	150	116	404	136	174	105	415	92	133	65	290	130	129	79	338
Micro bus	26	80	36	142	53	79	43	175	56	82	68	206	35	56	46	137	46	77	42	165
Mini Bus	91	119	79	289	121	141	94	356	184	137	170	491	125	130	130	385	111	223	178	512
Bus	238	319	238	795	321	347	320	988	392	354	349	1095	252	302	272	826	329	388	353	1070
Car	38	90	64	192	29	52	53	134	34	84	39	157	35	70	31	136	58	79	38	175
Jeep	17	33	16	66	26	46	51	123	27	25	27	79	31	20	47	98	27	15	26	68
Pick Up	20	38	26	84	20	55	27	102	17	56	27	100	16	46	25	87	38	47	41	126
Truck	15	11	7	33	16	20	14	50	46	52	28	126	24	23	7	54	30	45	12	87
Heavy Truck	130	109	107	346	268	227	183	678	196	182	93	471	171	124	82	377	188	169	123	480
Articulated truck	1	5	1	7	1	0	0	1	2	1	6	9	0	1	0	1	3	4	3	10
Oil Tanker	3	2	0	5	1	0	1	2	4	2	0	6	0	0	2	2	3	2	5	10
Tractor	9	5	4	18	8	7	4	19	11	1	1	13	16	4	3	23	8	6	3	17
Animal-drawn	1	1	1	3	1	0	3	4	7	3	1	11	1	2	2	5	0	2	5	7
Other	52	29	30	111	40	24	13	77	70	76	27	173	52	61	19	132	55	59	25	139
TOTAL	2327	2281	963	5571	2882	2150	1292	6324	3057	2269	1210	6536	2381	1660	901	4942	3048	2150	1129	6327

TABLE 32 (CONTINUED): NUMBER OF CASUALTIES IN ROAD ACCIDENT BY CASUALTY CLASS

	2003				2004				2005				2006			
	Fatal	Grievous	Simple	Total	Fatal	Grievous	Simple	Total	Fatal	Grievous	Simple	Total	Fatal	Grievous	Simple	Total
Pedestrian	1592	441	72	2105	1539	367	74	1980	1491	393	78	1962	1647	363	61	2071
Cycle	112	52	10	174	91	25	8	124	63	20	4	87	108	36	7	151
Rickshaw	161	199	52	412	134	113	49	296	86	82	19	187	137	125	22	284
Pushcart	4	4	1	9	9	8	0	17	4	6	0	10	17	7	0	24
Motor Cycle	138	145	32	315	107	86	24	217	121	102	21	244	169	108	35	312
Baby Taxi	66	103	77	246	97	122	42	261	82	84	33	199	56	80	40	176
Tempo	117	152	87	356	112	121	80	313	61	70	27	158	105	73	52	230
Micro bus	90	80	38	208	54	57	48	159	58	56	16	130	39	56	12	107
Mini Bus	147	207	209	563	139	144	96	379	143	153	92	388	111	143	75	329
Bus	356	487	398	1241	382	497	339	1218	350	373	258	981	350	318	216	884
Car	71	119	46	236	64	81	42	187	36	65	36	137	44	67	17	128
Jeep	19	50	38	107	18	29	33	80	27	51	26	104	16	60	20	96
Pick Up	43	83	54	180	46	69	34	149	35	66	21	122	56	54	15	125
Truck	36	28	28	92	39	45	16	100	44	46	9	99	53	15	19	87
Heavy Truck	272	186	123	581	222	182	82	486	237	193	70	500	234	124	80	438
Articulated truck	2	0	2	4	3	3	1	7	0	4	2	6	6	6	1	13
Oil Tanker	3	1	0	4	7	3	0	10	2	2	1	5	4	1	1	6
Tractor	13	7	7	27	17	2	6	25	18	7	3	28	20	14	6	40
Animal-drawn	0	1	0	1	0	0	0	0	0	0	1	1	0	0	0	0
Other	90	73	34	197	57	68	15	140	73	43	15	131	54	38	9	101
TOTAL	3332	2418	1308	7058	3137	2022	989	6148	2931	1816	732	5479	3226	1688	688	5602

TABLE 32 (CONTINUED): NUMBER OF CASUALTIES IN ROAD ACCIDENT BY CASUALTY CLASS

	2007				2008				2009				2010			
	Fatal	Grievous	Simple	Total	Fatal	Grievous	Simple	Total	Fatal	Grievous	Simple	Total	Fatal	Grievous	Simple	Total
Pedestrian	1863	372	77	2312	1705	347	80	2132	1197	269	36	1502	1087	217	27	1331
Cycle	119	35	14	168	122	36	4	162	92	12	6	110	81	25	2	108
Rickshaw	133	129	18	280	125	89	32	246	69	66	14	149	76	36	16	128
Pushcart	7	11	0	18	10	8	1	19	3	2	0	5	6	2	2	10
Motor Cycle	151	86	21	258	187	136	38	361	202	116	23	341	195	109	34	338
Baby Taxi	64	75	29	168	117	58	34	209	61	41	6	108	121	98	37	256
Tempo	110	74	27	211	115	89	40	244	74	35	16	125	53	51	10	114
Micro bus	69	86	13	168	81	81	27	189	41	31	4	76	61	49	27	137
Mini Bus	68	114	51	233	97	112	30	239	49	59	12	120	64	70	35	169
Bus	237	333	159	729	429	448	205	1082	285	221	59	565	282	284	136	702
Car	26	52	31	109	38	59	29	126	27	33	13	73	29	32	13	74
Jeep	26	34	42	102	26	8	15	49	17	21	15	53	16	25	17	58
Pick Up	37	50	23	110	52	45	23	120	37	28	7	72	43	47	21	111
Truck	31	32	6	69	35	6	9	50	42	29	8	79	32	22	6	60
Heavy Truck	163	144	63	370	226	100	44	370	152	68	18	238	96	55	18	169
Articulated truck	3	2	1	6	8	1	0	9	2	5	1	8	3	0	0	3
Oil Tanker	5	3	1	9	3	0	1	4	4	2	0	6	1	2	0	3
Tractor	15	10	0	25	32	10	3	45	23	5	2	30	7	5	2	14
Animal-drawn	0	0	0	0	6	5	3	14	1	0	0	1	1	2	1	4
Other	97	69	24	190	121	83	40	244	100	67	16	183	119	91	19	229
TOTAL	3224	1711	600	5535	3535	1721	658	5914	2478	1110	256	3844	2373	1222	423	4018

	2011				2012				2013			
	Fatal	Grievous	Simple	Total	Fatal	Grievous	Simple	Total	Fatal	Grievous	Simple	Total
Pedestrian	1863	372	77	2312	1705	347	80	2132	833	155	28	1016
Cycle	119	35	14	168	122	36	4	162	27	7	6	40
Rickshaw	133	129	18	280	125	89	32	246	49	19	14	82
Pushcart	7	11	0	18	10	8	1	19	3	2	3	8
Motor Cycle	151	86	21	258	187	136	38	361	169	90	25	284
Baby Taxi	64	75	29	168	117	58	34	209	121	60	22	203
Tempo	110	74	27	211	115	89	40	244	31	26	12	69
Micro bus	69	86	13	168	81	81	27	189	12	13	2	27
Mini Bus	68	114	51	233	97	112	30	239	31	23	13	67
Bus	237	333	159	729	429	448	205	1082	118	71	35	224
Car	26	52	31	109	38	59	29	126	9	8	11	28
Jeep	26	34	42	102	26	8	15	49	17	4	4	25
Pick Up	37	50	23	110	52	45	23	120	28	20	18	66
Truck	31	32	6	69	35	6	9	50	25	14	6	45
Heavy Truck	163	144	63	370	226	100	44	370	77	28	31	136
Articulated truck	3	2	1	6	8	1	0	9	1	0	0	1
Oil Tanker	5	3	1	9	3	0	1	4	2	3	0	5
Tractor	15	10	0	25	32	10	3	45	11	3	1	15
Animal-drawn	0	0	0	0	6	5	3	14	0	0	0	0
Other	97	69	24	190	121	83	40	244	95	38	31	164
TOTAL	3224	1711	600	5535	3535	1721	658	5914	1659	584	262	2505

TABLE 33: NUMBER OF DRIVER CASUALTIES BY AGE (IN YEARS)

	0-5	6-10	11-16	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60	61-65	66-70	71-75	>75	TOTAL
1998	0	3	10	46	117	213	179	94	54	11	5	1	2	1	1	0	737
1999	0	0	9	61	129	161	153	82	58	21	7	5	1	1	0	1	689
2000	0	1	10	33	105	147	172	86	49	22	13	6	5	0	1	0	650
2001	0	3	8	42	56	103	105	57	41	23	5	3	1	2	1	0	450
2002	4	0	9	28	70	79	121	65	41	11	4	4	2	1	0	0	439
2003	0	0	7	37	88	130	136	71	54	18	7	2	3	0	0	0	553
2004	1	0	7	23	69	87	98	72	32	16	7	4	0	0	0	1	417
2005	1	1	3	21	57	76	80	64	34	16	7	3	1	1	0	0	365
2006	8	1	9	24	59	103	101	68	54	18	12	8	3	1	1	2	472
2007	0	2	14	29	63	102	75	63	45	34	8	9	5	1	0	2	452
2008	4	2	10	31	68	117	111	78	50	30	17	9	1	3	0	0	531
2009	1	0	8	23	70	110	88	79	43	24	14	2	1	2	0	1	466
2010	0	2	8	20	62	86	83	61	30	26	14	5	2	2	0	0	401
2011	2	1	7	15	29	57	57	23	20	11	5	1	1	0	0	0	229
2012	1	0	9	19	26	32	31	27	14	12	3	4	2	0	0	0	180
2013	0	1	4	24	61	87	53	35	25	16	8	4	1	0	0	1	320
Total	22	17	132	476	1129	1690	1643	1025	644	309	136	70	31	15	4	8	7351

TABLE 34: NUMBER OF PASSENGER CASUALTIES BY AGE (IN YEARS)

	0-5	6-10	11-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60	61-65	66-70	71-75	>75	TOTAL
1998	32	70	87	185	325	433	333	223	152	92	36	39	16	11	5	2	2041
1999	32	44	83	210	391	489	404	273	181	104	69	40	29	21	5	6	2381
2000	47	56	106	201	351	419	381	296	192	111	52	51	19	25	6	2	2315
2001	31	44	66	153	254	267	261	171	124	90	39	35	17	16	5	4	1577
2002	30	44	57	152	241	301	253	179	115	98	38	35	18	9	2	2	1574
2003	36	55	70	182	293	336	290	209	154	103	56	36	16	18	4	6	1864
2004	35	50	54	153	205	266	203	147	114	81	33	44	21	16	5	2	1429
2005	52	36	58	108	176	230	157	144	105	72	31	27	13	10	3	3	1225
2006	84	41	54	143	219	270	204	183	130	81	47	39	33	10	7	5	1550
2007	41	67	57	128	218	263	220	170	108	87	52	37	31	16	7	7	1509
2008	52	49	53	144	243	252	239	153	133	96	51	45	25	12	3	3	1553
2009	36	31	52	114	189	193	159	146	96	83	43	28	23	17	4	0	1214
2010	48	48	41	105	149	216	165	136	90	61	45	40	20	15	2	5	1186

2011	48	33	46	112	157	184	103	111	88	72	38	26	16	10	6	7	1057
2012	48	38	38	126	157	136	146	103	75	39	41	25	16	11	1	4	1004
2013	14	32	42	98	132	146	117	85	77	49	44	27	24	7	0	1	895
Total	666	738	964	2314	3700	4401	3635	2729	1934	1319	715	574	337	224	65	59	24374

TABLE 35: NUMBER OF PEDESTRIAN CASUALTIES BY AGE (IN YEARS)

	0-5	6-10	11-16	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60	61-65	66-70	71-75	>75	TOTAL
1998	87	235	128	122	129	170	141	121	83	70	55	58	50	44	13	25	1531
1999	75	255	160	119	124	168	162	110	98	96	63	88	51	53	11	23	1656
2000	90	253	135	116	146	161	150	124	83	86	53	74	46	51	12	19	1599
2001	61	200	105	78	102	117	91	70	63	72	44	49	42	31	9	10	1144
2002	57	226	95	86	89	124	122	91	67	81	54	67	40	38	14	13	1264
2003	70	228	101	80	138	119	113	86	74	75	38	59	30	49	14	16	1290
2004	78	175	86	91	98	116	93	82	63	74	33	64	37	38	6	10	1144
2005	57	136	86	81	94	111	55	82	69	59	42	44	20	39	23	12	1010
2006	164	178	83	107	131	151	126	120	79	90	62	55	46	49	26	21	1488
2007	118	207	120	99	126	157	111	141	114	99	71	104	76	55	23	27	1648
2008	93	203	81	88	102	151	134	151	89	86	75	68	47	58	22	23	1471
2009	60	136	70	65	99	108	103	117	104	70	42	57	32	25	14	21	1123
2010	52	104	75	73	88	102	88	79	91	68	42	44	45	29	16	16	1012
2011	61	99	44	57	77	90	95	83	87	63	41	46	24	33	12	15	927
2012	56	65	56	60	72	74	93	63	77	56	42	46	33	24	11	16	844
2013	40	66	49	71	82	138	124	82	37	51	43	41	18	34	11	12	899
Total	1219	2766	1474	1393	1697	2057	1801	1602	1278	1196	800	964	637	650	237	279	20050

TABLE 36: NUMBER OF PASSENGER CASUALTIES BY POSITION IN VEHICLE

YEAR	Inside	Outside	Roof	TOTAL
1998	2485	72	110	2667
1999	2926	96	166	3188
2000	3130	106	143	3379
2001	2229	159	143	2531
2002	2965	58	127	3150
2003	3359	107	272	3738
2004	2988	63	130	3181
2005	2459	90	76	2625
2006	2368	149	79	2596
2007	2108	220	71	2399
2008	2441	200	99	2740
2009	1778	149	142	2069
2010	1839	143	92	2074
2011	1423	209	67	1699
2012	1375	122	38	1535
2013	949	50	19	1018
Total	36822	1993	1774	40589

TABLE 37: NUMBER OF PASSENGER CASUALTIES BY PASSENGER ACTION

YEAR	No Action	Boarding	De-Boarding	Falling off	Other	TOTAL
1998	2097	14	24	437	94	2666
1999	2688	20	13	379	80	3180
2000	2935	28	19	292	105	3379
2001	2211	24	22	160	114	2531
2002	2929	24	24	119	54	3150
2003	3334	22	37	196	142	3731
2004	2747	89	31	151	163	3181
2005	2034	326	15	129	116	2620
2006	2098	42	13	147	272	2572
2007	1640	43	10	191	511	2395
2008	2002	30	15	284	403	2734
2009	1636	14	7	233	179	2069
2010	1630	21	26	253	144	2074
2011	1232	46	6	221	197	1702
2012	1177	59	25	129	142	1532
2013	841	14	3	92	70	1020
Total	33231	816	290	3413	2786	40536

TABLE 38: NUMBER OF PEDESTRIAN CASUALTIES BY LOCATION ON ROAD

YEAR	Pedestrian crossing	Within 50 m of Pedestrian crossing	Central Island / Divider	Road Centre line	Foot Path	Road Side	Bus Stop	TOTAL
1998	284	76	8	661	38	743	14	1824
1999	357	49	9	535	49	1032	15	2046
2000	348	219	10	452	40	944	17	2030
2001	205	35	2	391	38	911	4	1586
2002	172	22	1	449	55	1423	12	2134
2003	249	42	8	422	42	1310	23	2096
2004	424	44	12	340	27	1118	7	1972
2005	594	42	12	320	19	932	9	1928
2006	304	20	1	568	39	1075	12	2019
2007	568	40	3	685	72	870	24	2262
2008	593	41	5	815	37	607	23	2121
2009	510	25	6	538	26	388	9	1502
2010	227	16	1	709	55	308	9	1325
2011	204	28	1	426	60	383	5	1107
2012	331	47	1	329	49	265	3	1025
2013	323	24	3	322	21	271	2	966
Total	5693	770	83	7962	667	12580	188	27943

TABLE 39: NUMBER OF PEDESTRIAN CASUALTIES BY PEDESTRIAN ACTION DURING ACCIDENT

YEAR	No action	Crossing the road	Walking along the Road	Walking along roadside	Playing on the Road	TOTAL
1998	425	557	187	619	31	1819
1999	328	548	179	961	30	2046
2000	406	484	163	953	25	2031
2001	248	333	127	851	27	1586
2002	232	458	95	1316	33	2134
2003	208	462	118	1271	36	2095
2004	372	440	94	1043	22	1971
2005	251	628	108	911	21	1919
2006	225	654	85	1019	31	2014
2007	392	873	134	826	38	2263
2008	409	900	181	572	58	2120
2009	243	705	127	378	49	1502
2010	143	697	166	294	23	1323
2011	178	448	106	356	19	1107
2012	321	468	67	155	12	1023
2013	412	322	71	148	13	966
Total	4793	8977	2008	11673	468	27919

TABLE 40: NUMBER OF ACCIDENTS BY YEAR ACCORDING TO CONTRIBUTORY FACTOR 1

YEAR	Speeding			Careless Driving			Driver Fatigue			Driving too Close			Bad Driver Signal		
	BD	DMP	NHs	BD	DMP	NHs	BD	DMP	NHs	BD	DMP	NHs	BD	DMP	NHs
1998	2226	1131	504	1058	2	507	9	0	2	10	0	0	8	1	4
1999	2269	891	653	1459	1	785	2	0	2	13	0	5	3	0	2
2000	2249	848	660	1597	2	806	9	1	5	14	0	6	4	0	2
2001	1471	519	398	1378	0	710	7	0	4	6	0	3	3	0	1
2002	2286	875	615	1599	0	819	3	0	1	8	1	3	6	0	2
2003	2225	827	678	1812	1	970	7	0	2	4	0	1	4	0	2
2004	1925	668	728	1590	0	884	7	0	6	5	0	2	2	0	0
2005	1797	496	635	1344	0	802	3	0	2	3	0	1	5	0	1
2006	1727	582	721	1735	10	894	5	0	3	7	3	5	6	1	2
2007	1667	537	595	1673	8	885	9	0	6	18	0	8	13	0	9
2008	1852	593	822	1051	7	582	13	0	7	38	5	12	31	3	12
2009	1789	399	825	552	39	259	5	1	2	36	15	16	14	3	4
2010	1285	447	517	618	9	228	7	0	5	21	0	12	21	0	7
2011	788	255	359	524	59	213	9	3	3	59	23	22	32	3	21
2012	964	239	468	616	22	357	3	0	1	24	14	12	15	4	10
2013	739	196	309	641	22	410	7	1	4	11	3	6	11	7	2
Total	27259	9503	9487	19247	182	10111	105	6	55	277	64	114	178	22	81
YEAR	Bad Overtaking			Bad turning			Drunk Driver			Pedestrian Action			Passenger Action		
	BD	DMP	NHs	BD	DMP	NHs	BD	DMP	NHs	BD	DMP	NHs	BD	DMP	NHs
1998	27	0	16	3	0	2	7	0	5	85	68	6	9	0	3
1999	17	0	10	4	0	2	2	0	2	14	0	5	10	0	5
2000	13	0	4	1	0	0	3	0	2	23	0	6	3	0	2
2001	3	0	1	2	0	0	0	0	0	11	0	2	6	0	1
2002	9	0	3	1	0	0	1	0	1	4	0	0	1	0	0
2003	17	0	8	4	0	1	3	0	3	10	0	3	1	0	1
2004	3	0	1	1	0	0	0	0	0	15	0	8	1	0	0
2005	8	0	3	3	0	1	2	0	1	9	0	7	4	0	2
2006	6	1	3	5	0	3	0	0	0	15	1	10	6	0	2
2007	32	0	18	11	0	5	1	0	0	255	20	84	10	0	4
2008	71	1	39	40	5	22	9	4	4	442	17	222	27	0	11

2009	30	3	17	16	1	4	5	1	3	191	20	78	4	0	0
2010	52	1	24	19	0	3	0	0	0	267	1	140	6	0	5
2011	83	2	46	25	4	13	4	3	1	279	43	119	6	1	3
2012	46	16	23	19	7	9	2	0	1	153	43	69	7	3	4
2013	30	11	13	12	7	1	5	2	2	237	91	91	2	0	2
Total	447	35	229	266	24	66	44	10	25	2010	304	850	103	4	45

TABLE 40 (CONTINUED): NUMBER OF ACCIDENTS BY YEAR ACCORDING TO CONTRIBUTORY FACTOR 1

YEAR	Road Condition			Road Features			Weather			Vehicle Defects			Unsafe Loading		
	BD	DMP	NHs	BD	DMP	NHs	BD	DMP	NHs	BD	DMP	NHs	BD	DMP	NHs
1998	3	0	1	5	0	1	2	0	0	1	0	0	6	0	2
1999	2	0	2	6	0	3	1	0	1	9	0	4	2	0	2
2000	5	0	0	3	0	3	3	0	3	4	0	0	0	0	0
2001	6	0	1	3	0	0	2	0	0	4	0	2	2	0	0
2002	3	0	1	2	0	0	0	0	0	2	0	0	2	0	1
2003	1	0	0	2	0	2	2	0	0	0	0	0	3	0	0
2004	2	0	1	1	0	0	1	0	1	3	0	2	1	0	0
2005	3	0	1	1	0	0	0	0	0	1	0	0	4	0	2
2006	6	1	0	4	0	1	2	0	0	3	0	2	2	0	0
2007	24	0	7	22	0	10	14	0	8	31	0	12	14	0	6
2008	28	2	12	14	0	8	14	0	7	40	1	12	10	0	1
2009	27	5	11	48	23	24	8	0	3	43	1	6	6	1	2
2010	29	0	12	47	0	28	5	0	3	39	0	14	11	0	5
2011	15	2	6	70	0	47	13	1	7	8	1	23	11	0	3
2012	13	5	2	31	11	13	13	1	8	15	4	3	8	2	3
2013	6	0	3	9	0	7	3	0	0	3	1	2	4	0	3
Total	173	15	60	268	34	147	83	2	41	206	8	82	86	3	30
YEAR	Tyre Burst			Animal Action			Other			Total					
	BD	DMP	NHs	BD	DMP	NHs	BD	DMP	NHs	BD	DMP	NHs			
1998	5	0	2	1	0	0	34	0	13	3499	1202	1068			
1999	6	0	2	1	0	1	38	0	15	3858	892	1501			
2000	4	0	2	1	0	1	33	0	10	3969	851	1512			

2001	3	0	1	0	0	0	14	0	5	2921	519	1129
2002	2	0	2	0	0	0	12	0	3	3941	876	1451
2003	1	0	0	0	0	0	7	0	0	4103	828	1671
2004	2	0	0	0	0	0	6	0	3	3565	668	1636
2005	0	0	0	1	0	1	8	0	4	3196	496	1463
2006	0	0	0	0	0	0	12	2	0	3541	601	1646
2007	2	0	0	0	0	0	5	0	3	3801	565	1660
2008	3	0	1	4	1	3	13	2	7	3700	641	1784
2009	5	0	5	0	0	0	17	13	7	2796	525	1266
2010	2	0	1	1	0	0	3	0	1	2433	458	1005
2011	5	0	4	1	0	1	3	0	1	2007	400	892
2012	1	0	1	1	0	0	4	1	2	1935	372	986
2013	0	0	0	1	0	1	5	0	2	1726	341	858
Total	41	0	51	12	1	8	214	18	76	50991	10235	21528

TABLE 41: NUMBER OF ACCIDENTS BY YEAR ACCORDING TO CONTRIBUTORY FACTOR 2

YEAR	None			Speeding			Careless Driving			Driver Fatigue			Driving too Close		
	BD	DMP	NHs	BD	DMP	NHs	BD	DMP	NHs	BD	DMP	NHs	BD	DMP	NHs
1998	1000	1	456	146	69	44	2090	1121	453	12	0	6	14	0	5
1999	816	0	378	710	0	423	2158	892	612	11	0	9	17	0	10
2000	624	1	256	976	3	559	2131	846	612	3	0	0	6	1	3
2001	409	0	184	910	2	494	1424	516	378	5	1	3	16	0	7
2002	344	0	145	1189	2	652	2239	874	590	13	0	10	15	0	10
2003	307	0	142	1306	1	743	2157	827	648	7	0	5	19	0	10

2004	282	0	122	1202	0	728	1832	668	678	6	0	4	26	0	13
2005	236	0	116	1137	0	708	1719	495	591	11	1	4	10	0	8
2006	178	1	51	1486	8	818	1658	577	687	8	2	6	12	1	8
2007	60	0	31	1307	10	720	1812	555	638	16	0	9	25	0	11
2008	34	2	3	646	2	359	2253	615	1027	21	0	12	57	5	31
2009	11	0	5	350	25	162	1898	410	858	7	0	2	27	5	15
2010	93	0	22	334	3	124	1524	445	655	19	1	7	29	2	13
2011	48	0	14	213	10	104	1158	313	533	23	3	12	48	12	25
2012	160	0	73	113	12	50	1086	287	528	17	3	8	21	9	8
2013	151	0	67	169	7	97	902	264	374	31	1	16	14	2	3
Total	4753	5	2065	12194	154	6785	28041	9705	9862	210	12	113	356	37	180

TABLE 41: NUMBER OF ACCIDENTS BY YEAR ACCORDING TO CONTRIBUTORY FACTOR 2

YEAR	Bad Driver Signal			Bad Overtaking			Bad turning			Drunk Driver			Pedestrian Action		
	BD	DMP	NHs	BD	DMP	NHs	BD	DMP	NHs	BD	DMP	NHs	BD	DMP	NHs
1998	16	0	7	31	0	17	6	0	2	4	0	1	80	10	35
1999	6	0	4	31	0	16	7	0	3	15	0	2	46	0	20
2000	5	0	1	35	0	14	11	0	5	16	0	4	36	0	18

2001	3	0	1	23	0	13	7	0	2	6	0	2	31	0	14
2002	8	0	2	21	0	7	6	0	1	9	0	4	30	0	15
2003	15	0	6	64	0	30	18	0	6	42	0	23	56	0	22
2004	11	0	5	27	0	17	8	0	3	6	0	3	81	0	34
2005	7	0	4	19	0	14	5	0	2	1	0	0	60	0	22
2006	7	0	0	29	2	16	13	0	2	2	0	2	55	1	26
2007	28	0	18	31	0	18	12	0	3	3	0	1	179	0	77
2008	63	1	37	66	2	36	14	0	6	7	1	3	147	2	65
2009	43	0	17	21	5	7	17	1	8	14	6	6	143	30	62
2010	29	2	13	44	2	22	13	0	7	5	1	2	135	2	58
2011	58	7	23	67	4	37	21	0	6	17	12	1	124	11	50
2012	66	23	32	307	2	216	11	3	3	4	3	1	61	12	29
2013	49	36	15	298	6	240	7	0	5	4	1	0	28	15	10
Total	414	69	185	1114	23	720	176	4	64	155	24	55	1292	83	557

TABLE 41(CONTINUED): NUMBER OF ACCIDENTS BY YEAR ACCORDING TO CONTRIBUTORY FACTOR 2

YEAR	Passenger Action			Road Condition			Road Features			Weather			Vehicle Defects		
	BD	DMP	NHs	BD	DMP	NHs	BD	DMP	NHs	BD	DMP	NHs	BD	DMP	NHs
1998	17	0	4	7	0	2	6	0	3	11	0	6	7	0	2
1999	3	0	3	8	0	3	4	0	2	12	0	6	4	0	1
2000	14	0	3	17	0	2	5	0	0	12	0	7	5	0	1
2001	10	0	5	10	0	3	7	0	0	7	0	2	7	0	0
2002	6	0	1	6	0	3	3	0	0	5	0	2	7	0	2
2003	15	0	3	12	0	3	12	0	3	9	0	3	15	0	9
2004	7	0	1	9	0	1	7	0	3	9	0	5	8	0	4
2005	6	0	5	11	0	6	4	0	3	1	0	1	4	0	2
2006	9	2	4	18	0	7	17	1	5	5	1	0	8	3	0
2007	14	0	4	47	0	15	53	0	23	13	0	7	27	0	6
2008	10	0	4	47	1	20	82	6	29	27	0	22	29	0	12
2009	11	3	1	45	13	24	66	8	25	21	1	10	26	1	14
2010	13	0	1	35	0	19	82	0	37	9	0	5	25	0	6
2011	16	0	5	37	12	14	85	10	32	14	0	9	40	4	12
2012	5	0	2	12	2	6	48	13	21	9	0	3	5	2	2
2013	2	1	1	9	3	5	6	4	1	3	0	2	3	0	1
Total	158	6	47	330	31	133	487	42	187	167	2	90	220	10	74

TABLE 41 (CONTINUED): NUMBER OF ACCIDENTS BY YEAR ACCORDING TO CONTRIBUTORY FACTOR 2

YEAR	Unsafe Loading			Tyre Burst			Animal Action			Other			Total		
	BD	DMP	NHs	BD	DMP	NHs	BD	DMP	NHs	BD	DMP	NHs	BD	DMP	NHs
1998	22	1	9	3	0	2	2	0	1	21	0	5	3495	1202	1060
1999	37	0	21	5	0	3	3	0	1	22	0	7	3915	892	1524
2000	25	0	8	6	0	2	1	0	0	32	0	10	3960	851	1505
2001	12	0	4	2	0	0	1	0	0	27	0	15	2917	519	1127
2002	10	0	1	0	0	0	2	0	1	27	0	5	3940	876	1451
2003	14	0	4	2	0	0	2	0	1	28	0	10	4100	828	1671
2004	17	0	6	3	0	1	3	0	2	21	0	7	3565	668	1637
2005	2	0	0	2	0	1	1	0	0	17	0	9	3253	496	1496
2006	8	0	2	5	0	2	1	0	1	37	1	16	3556	600	1653
2007	14	0	6	4	0	1	2	0	1	110	0	48	3757	565	1637
2008	22	0	12	1	0	1	1	0	0	81	4	34	3608	641	1713
2009	16	0	8	2	0	2	2	0	1	42	14	23	2762	522	1250
2010	17	0	2	0	0	0	0	0	0	22	0	11	2428	458	1004
2011	26	2	10	1	0	0	0	0	0	8	0	3	2004	400	890
2012	3	0	1	0	0	0	0	0	0	7	1	3	1933	372	986
2013	3	0	3	0	0	0	0	0	0	45	1	18	1724	341	858
Total	248	3	97	36	0	15	21	0	9	547	21	224	50917	10231	21462

TABLE 42: NUMBER OF ACCIDENTS BY YEAR ACCORDING TO CONTRIBUTORY FACTOR 3

YEAR	None			Speeding			Careless Driving			Driver Fatigue			Driving too Close		
	BD	DMP	NHs	BD	DMP	NHs	BD	DMP	NHs	BD	DMP	NHs	BD	DMP	NHs
1998	2812	983	869	0	0	0	93	79	5	9	0	4	37	0	15
1999	3002	654	1170	12	3	6	6	0	3	29	0	27	44	37	6
2000	2700	451	1090	5	0	1	3	1	0	78	74	1	279	275	1
2001	2249	411	864	15	1	10	12	1	6	15	8	4	72	60	9
2002	3201	848	1166	11	0	4	1	0	1	16	0	8	20	8	8
2003	3449	796	1443	10	0	3	7	0	3	23	0	18	28	16	5
2004	3183	660	1442	19	0	15	8	1	3	19	0	15	21	4	12
2005	2657	495	1175	19	1	8	10	0	8	9	0	7	9	0	6
2006	2089	370	950	96	10	49	27	7	10	15	2	5	32	19	20
2007	1863	378	849	305	18	122	104	1	46	16	0	10	24	1	15
2008	1119	575	395	266	6	144	195	13	87	121	0	88	75	2	36
2009	448	168	151	147	5	70	134	7	46	15	3	10	33	0	21
2010	688	298	216	242	3	132	145	2	71	18	5	8	29	7	16
2011	99	31	27	264	33	125	163	11	74	13	2	3	54	30	11

2012	269	21	116	92	15	48	82	30	40	30	2	25	44	27	18
2013	577	165	245	127	20	60	50	28	18	3	0	1	23	9	8
Total	30405	7304	12168	1630	115	797	1040	181	421	429	96	234	824	495	207

TABLE 42: NUMBER OF ACCIDENTS BY YEAR ACCORDING TO CONTRIBUTORY FACTOR 3

YEAR	Bad Driver Signal			Bad Overtaking			Bad turning			Drunk Driver			Pedestrian Action		
	BD	DMP	NHs	BD	DMP	NHs	BD	DMP	NHs	BD	DMP	NHs	BD	DMP	NHs
1998	10	1	4	11	1	8	5	0	3	7	0	3	169	138	13
1999	12	1	9	17	0	12	1	0	1	4	0	1	45	19	14
2000	2	1	0	10	0	3	0	0	0	3	0	2	163	1	94
2001	6	0	2	12	0	5	1	0	0	6	5	0	74	3	36
2002	5	0	1	25	0	8	8	0	3	25	3	8	46	7	22
2003	4	0	0	48	0	22	10	1	2	59	3	30	48	3	19
2004	8	0	5	27	0	19	10	0	8	8	3	4	44	0	26
2005	9	0	6	23	0	10	7	0	6	2	0	0	33	0	13
2006	14	8	4	34	0	23	15	1	6	10	2	4	384	94	181
2007	44	0	26	39	0	17	11	0	5	7	0	3	209	100	67

2008	118	5	63	105	1	67	25	2	12	20	1	8	365	10	189
2009	48	3	28	38	8	18	25	5	9	23	10	13	346	146	139
2010	64	0	34	45	1	25	23	1	4	10	1	5	340	81	117
2011	171	22	91	70	19	38	17	0	6	11	6	4	347	155	153
2012	127	20	75	114	1	71	12	4	7	8	2	5	312	154	126
2013	40	22	20	42	2	11	17	10	4	1	0	0	97	39	26
Total	682	83	368	660	33	357	187	24	76	204	36	90	3022	950	1235

TABLE 42 (CONTINUED): NUMBER OF ACCIDENTS BY YEAR ACCORDING TO CONTRIBUTORY FACTOR 3

YEAR	Passenger Action			Road Condition			Road Features			Weather			Vehicle Defects		
	BD	DMP	NHs	BD	DMP	NHs	BD	DMP	NHs	BD	DMP	NHs	BD	DMP	NHs
1998	4	0	2	6	0	3	5	0	2	8	0	4	4	0	1
1999	2	0	2	4	0	2	7	0	2	3	0	1	3	0	0
2000	7	0	4	1	0	0	5	0	1	6	1	1	4	1	1
2001	6	0	3	7	0	4	4	1	2	2	0	2	4	0	1
2002	7	1	3	8	0	2	13	0	4	20	0	7	11	0	3
2003	10	1	6	10	0	4	24	0	6	28	0	15	20	0	7
2004	3	0	1	7	0	1	5	0	1	9	0	6	6	0	3
2005	2	0	1	47	0	23	155	0	72	7	0	1	13	0	4

2006	18	0	12	54	0	22	138	1	85	12	0	8	13	2	9
2007	9	0	3	45	0	22	73	0	32	10	0	3	25	0	11
2008	19	0	8	65	3	33	245	15	124	47	0	28	80	0	28
2009	17	1	8	46	6	21	127	7	45	23	0	11	30	3	13
2010	11	1	4	21	0	9	101	1	50	17	0	12	37	0	15
2011	20	0	7	34	17	2	162	34	60	12	3	6	18	1	6
2012	7	2	3	18	0	10	83	28	31	6	0	4	16	2	7
2013	19	1	1	26	24	6	12	5	6	2	0	1	7	1	3
Total	161	7	68	399	50	164	1159	92	523	222	4	110	291	10	112

TABLE 42 (CONTINUED): NUMBER OF ACCIDENTS BY YEAR ACCORDING TO CONTRIBUTORY FACTOR 3

YEAR	Unsafe Loading			Tyre Burst			Animal Action			Other			Total		
	BD	DMP	NHs	BD	DMP	NHs	BD	DMP	NHs	BD	DMP	NHs	BD	DMP	NHs
1998	17	0	8	4	0	3	0	0	0	280	0	107	3481	1202	1054
1999	25	0	12	5	0	5	1	0	1	671	178	238	3893	892	1512
2000	19	0	6	3	0	2	1	0	0	660	46	294	3949	851	1501
2001	21	0	6	1	0	0	1	0	0	408	28	174	2916	518	1128
2002	20	0	9	5	0	4	1	0	1	495	9	188	3938	876	1450
2003	34	0	15	7	0	1	2	0	1	271	7	70	4092	827	1670
2004	14	0	7	1	0	0	0	0	0	168	0	66	3560	668	1634

2005	15	0	8	3	0	1	1	0	1	177	0	103	3198	496	1453
2006	22	1	10	3	0	2	1	0	1	491	9	239	3468	526	1640
2007	12	0	4	0	0	0	1	0	0	449	66	208	3246	564	1443
2008	26	0	12	5	0	1	1	0	1	518	8	288	3415	641	1612
2009	28	0	8	3	0	3	1	0	0	1092	146	570	2624	518	1184
2010	32	0	9	4	0	1	1	0	1	570	54	257	2398	455	986
2011	39	7	15	1	0	0	0	0	0	481	29	242	1976	400	870
2012	18	0	8	4	0	4	0	0	0	676	64	378	1918	372	976
2013	5	0	4	2	0	1	0	0	0	573	14	381	1623	340	796
Total	347	8	133	51	0	28	12	0	7	7980	658	3803	49695	10146	20909