

APPENDIX 4

Kildare National Roads Design Office



N81 Tallaght to Hollywood Cross

Accident Data Report



Wicklow Council



South Dublin Council



Kildare Council

Document Control Sheet

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Table of Contents

1.	INTRODUCTION	1
2.	ACCIDENT DATA ANALYSIS	2
3.	CONCLUSION	13

1. INTRODUCTION

The analysis of accident data plays an important part in assessing the need for an improvement scheme along a section of road. Accident data is collected by the Gardai and passed to the NRA so trends can be analysed and action taken if required. The data is analysed under different factors to determine contributing causes for the accident. The data analysed in this report is from 1996 to 2004 and was obtained from David Hayden, Road Safety Section, NRA.

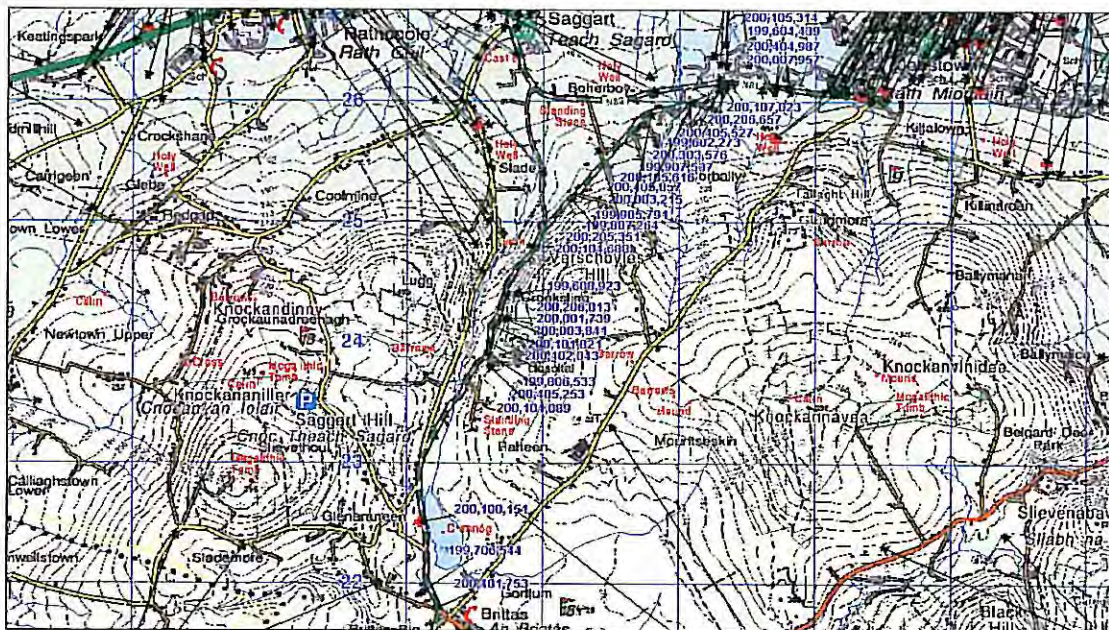
2. ACCIDENT DATA ANALYSIS

The data has been broken down into 5 sections as follows:

- Section 1 - N81 Embankment to Brittas**
- Section 2 - N81 Brittas to The Lamb**
- Section 3 - N81 The Lamb to Blessington**
- Section 4 - N81 Blessington to Poulaphouca**
- Section 5 - N81 Poulaphouca to Hollywood-Knockroe**

The raw data is presented in Appendix A to this report the summary data has been outlined below.

Section 1 Embankment to Brittas



Map 1. The Embankment to Brittas

The accidents have been broken down by type on Table 1.

Type	Number	%
Fatal	1	5%
Serious	6	27%
Minor	15	68%

Table 1. Accident Data Embankment to Brittas

The majority of accidents on this section of road occurred on Sunday in dry surface and weather conditions. This is shown on charts 1 and 2. Further analysis shows that majority of accidents on this stretch of road are head on collisions (41%) which is much higher than the national level of 13%. In addition most of these accidents occur on straight stretches of the carriageway.

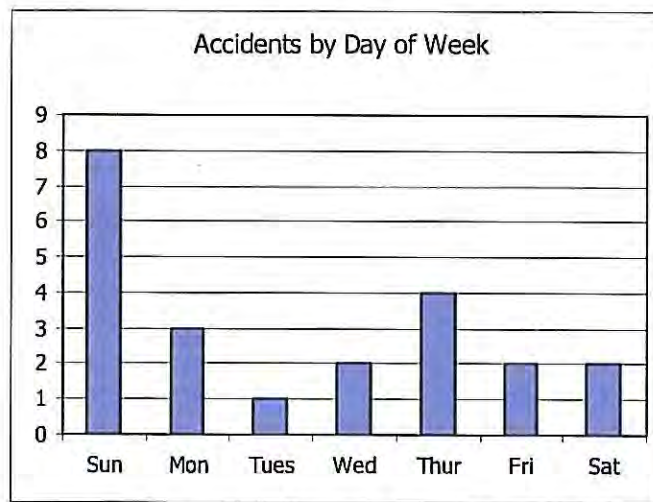
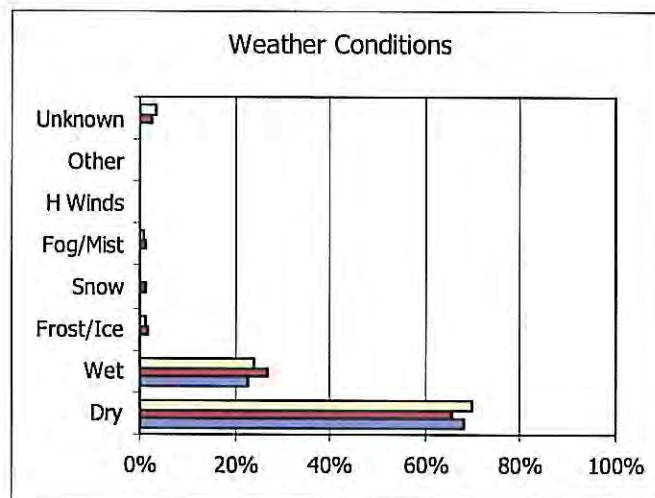


Chart 1. Accident Data by Days of the Week

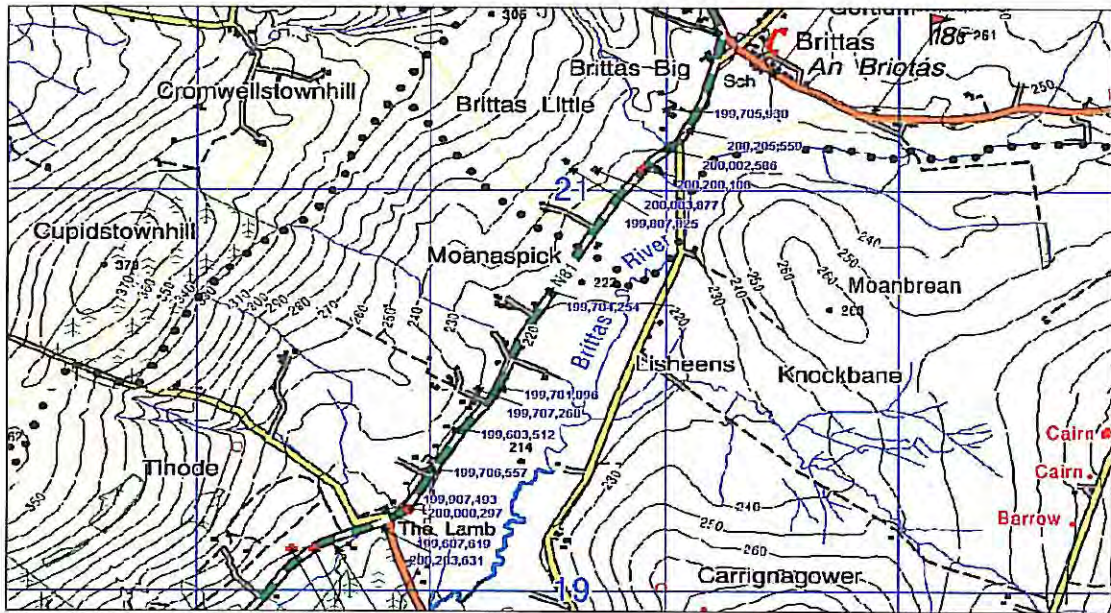


Red – Entire Route statistics
White - National Route statistics
Blue - N81 Embankment to Brittas statistics

Chart 2. Accidents Weather Conditions Embankment to Brittas

Section 2 Brittas to The Lamb

This stretch of road is shown on map 2 below.



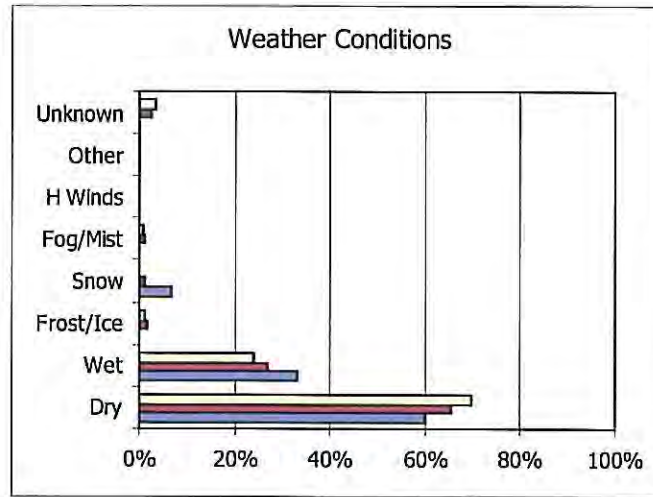
Map 2. Brittas to The Lamb

The accidents have been broken down by category in table 2 below. The trends for accident type remain broadly the same as the previous section of road.

Type	Number	%
Fatal	2	13%
Serious	4	27%
Minor	9	60%

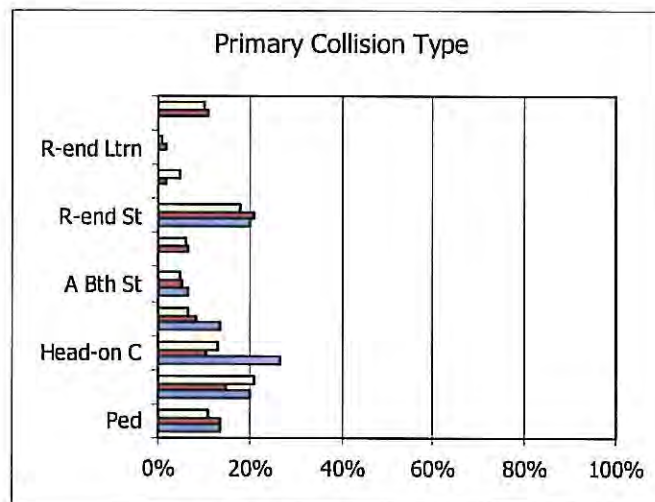
Table 2. Accident Data Brittas to The Lamb

The accidents on this section of road occur in both dry weather conditions however the surface conditions are split evenly between wet and dry conditions. This is shown on chart 3. The days of the week the accidents on this section of road occur fall mainly on Monday and Thursday, and in the main are either head on collisions or rear end shunts as can be seen on chart 4. The accident data shows that the majority of the accidents on this road occur on the straight section of the road however this road has a changeable vertical alignment with a number of dips that obscure oncoming traffic from view. The data shown on Chart 4 demonstrates again, that the number of head on collisions on this road is far above the national average.



Red – Entire Route statistics
White - National Route statistics
Blue - N81 Brittas to The Lamb statistics

Chart 3 Accidents Weather Conditions Brittas to The Lamb



Red – Entire Route statistics
White - National Route statistics
Blue - N81 Brittas to The Lamb statistics

Chart 4 Primary Collision Type Brittas to The Lamb

Section 3 The Lamb to Blessington

This stretch of road is shown on map 3 below.



Map 3 The Lamb to Blessington

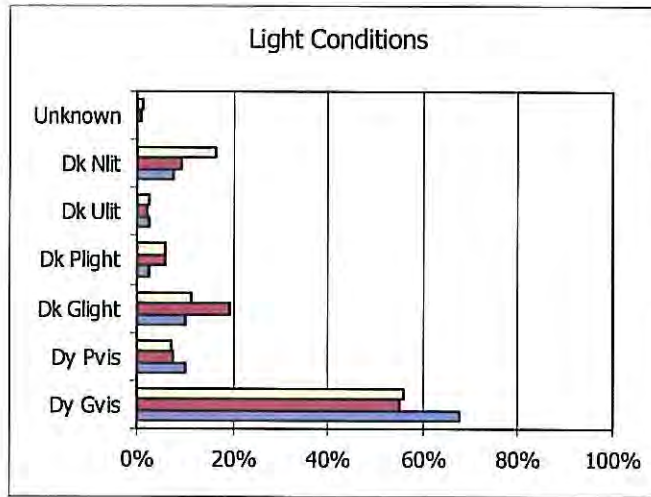
Table 3 shows the accidents that have occurred on this section of road broken down into type. The trends shown on previous sections remain the same.

Type	Number	%
Fatal	3	8%
Serious	5	13%
Minor	32	80%

Table 3 Accident Data The Lamb to Blessington

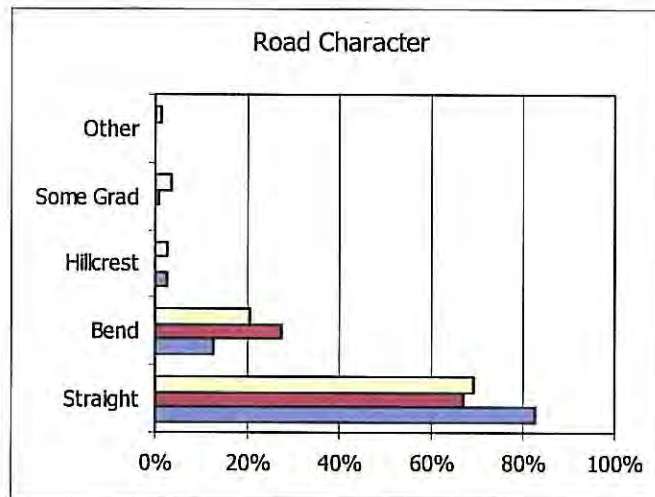
The accidents on this section of road again occur in dry weather conditions with the surface conditions fairly evenly split between wet and dry. As in most cases the accidents occur in good driving conditions with dry clear visibility see chart 5. The accidents on this section of road occur mainly on the straight sections of road, see chart 6, however it again must be noted that the vertical alignment of this road is poor.

The accidents on this section of road are mainly rear end shunts. As you can see from map 3 there are a number of junctions branching of this road, in addition there are a number of private dwellings along the carriageway. The presence of all of these junctions provides ample large numbers of cars performing right hand turning manoeuvres making the probability of a rear end shunt quite high. In addition this section of the road is close to the scenic drive through Wicklow with a number of stunning views visible from the carriageway.



Red – Entire Route statistics
White - National Route statistics
Blue - N81 The Lamb to Blessington statistics

Chart 5 Light Conditions The Lamb to Blessington

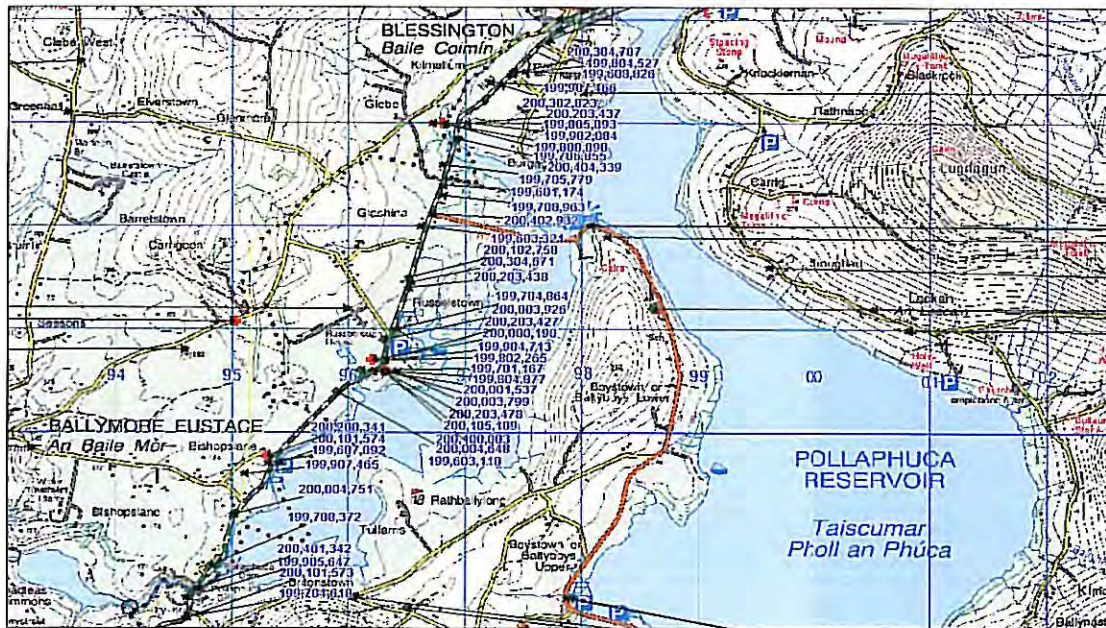


Red – Entire Route statistics
White - National Route statistics
Blue - N81 The Lamb to Blessington statistics

Chart 6 Light Conditions The Lamb to Blessington

Section 4 Blessington to Poulaphouca

The next section of road is shown on map 4.



Map 4 Blessington to Poulaphouca

The accident data for this section of road is shown in table 4; the accidents follow the trends shown on previous sections of the road.

Type	Number	%
Fatal	4	9%
Serious	6	13%
Minor	35	78%

Table 4 Accident Data Blessington to Poulaphouca

The data for this section of the road again shows correlation with the rest of the country’s national routes with the majority of accidents occurring in dry weather conditions with good visibility and the surface conditions evenly split between wet and dry.

The primary collision type on this section of road is single vehicle with, see chart 7. The overall percentage of single vehicle accidents on this section is 42%; this is double the national figure (21%). The horizontal alignment of this section of road is quite poor with the majority of accidents occurring on bends in the road, see chart 8. The number of head on collisions (18%) on this section of road is again higher than the national figure (13%).

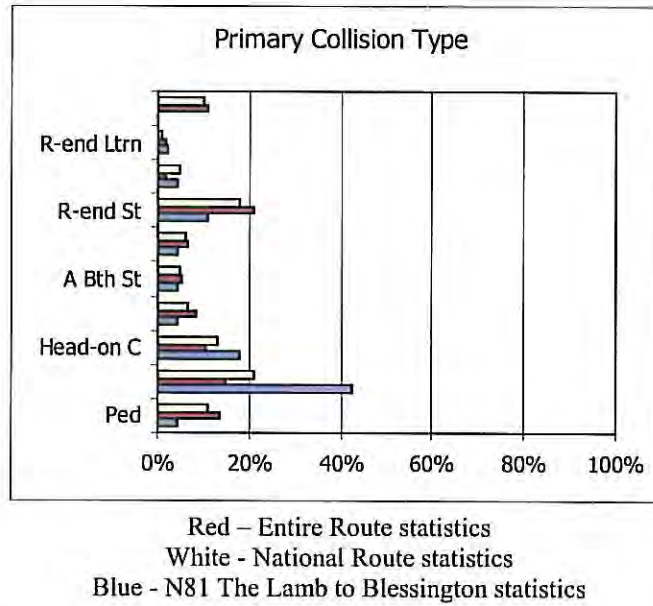


Chart 7 Primary Collision Type Blessington to Poulaphouca

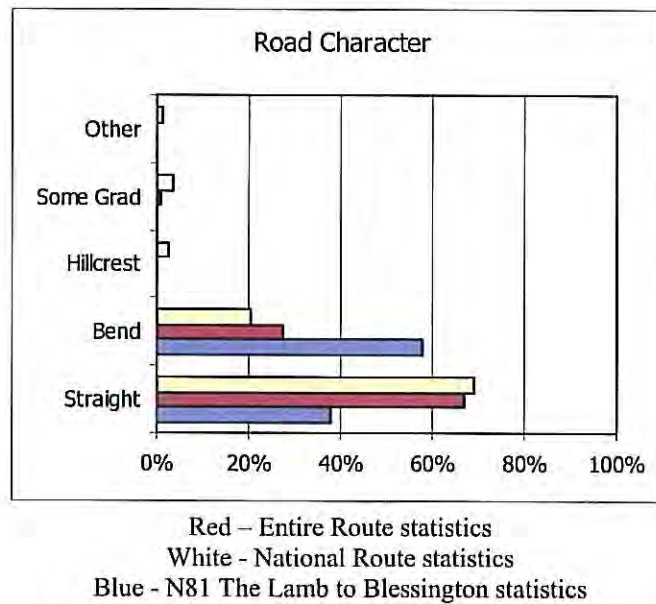
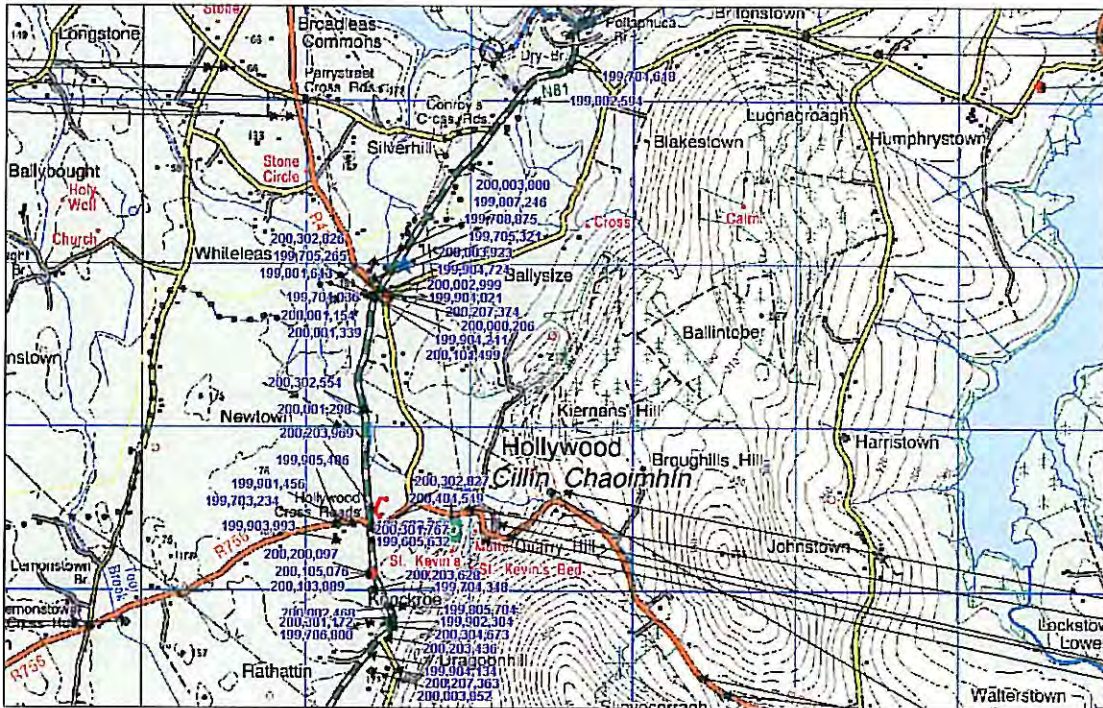


Chart 8 Road Character Blessington to Poulaphouca

Section 5 Poulaphouca to Hollywood – Knockroe

The next section of road is shown on map 5.



Map 5 Poulaphouca to Hollywood – Knockroe

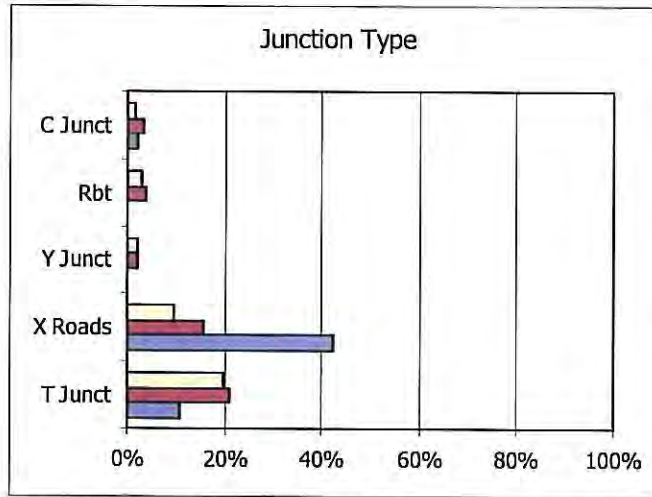
The accident data for this section shows that the trends remain the same as the rest of the carriageway see table 5.

Type	Number	%
Fatal	2	4%
Serious	12	26%
Minor	33	70%

Table 5 Accident Data Poulaphouca to Hollywood-Knockroe

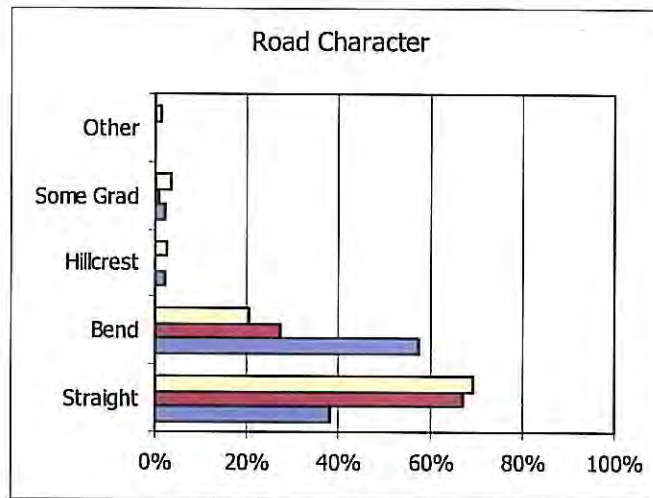
The accidents on this stretch of road again occur in dry weather conditions with good visibility and in the main dry surface conditions. The majority of accidents on this stretch of road occur at cross roads (43%), this is almost 5 times higher than the national figure (9%), see chart 9. Most of these accidents are head on collisions; in line with previous sections of the N81 this figure is several times higher than the national figures for head on collisions.

The accidents on this section of road occur at bends in the road, see chart 10, this highlights the part the horizontal alignment of the road plays in contributing to the causes of accidents.



Red – Entire Route statistics
White - National Route statistics
Blue - N81 The Lamb to Blessington statistics

Chart 9 Junction Type Poulaphouca to Hollywood-Knockroe



Red – Entire Route statistics
White - National Route statistics
Blue - N81 The Lamb to Blessington statistics

Chart 10 Road Character Poulaphouca to Hollywood-Knockroe

3. CONCLUSION

The accident data collected and analysed above clearly shows that the road has a contributing factor to the number of accidents occurring on the N81 as a whole. The poor vertical alignment with a large number of dips and hollows masks the view of the oncoming traffic. The appearance of a clear road encourages overtaking where it is not safe to do so.

Many other sections of the road have a poor horizontal alignment and this is demonstrated by the number of single vehicle accidents occurring along this road. Improvements along this section of carriageway on both the horizontal and vertical profile should result in a decrease in the number of accidents on this road.

Appendix A
TRAFFIC ACCIDENT DATA

Acc No	Type	Date	Time	Day	No Vels	No Peds	Light Condition	Weather	Surface	Junction Control	Road Character	Road Marking	Skidding	Junction Type	Primry Coll Type	Single Vehicle Collided With	Ped Action	Driver Action	Northing	Easting
200405527	Minor	02/05/04		Sun	2		Dk Elight	Dry	Dry	S Sign			No	Y Junct	R-end Lrm			Turn lt	305328.15	226155.48
200405253	Minor	20/06/04	11:30	Sun	2		Dy Gvis	Dry	Dry	Other			No		Head-on C			Other	303590.77	223905.65
200405057	Minor	05/03/04	19:50	Fri	3		Dk Plight		Dry				No		R-end St				305341.35	226152.93
200402043	Serious	05/04/04	7:15	Mon	2		Dy Gvis	Dry	Dry		Bend	C Cline	Yes		Head-on C			T A Act	303621.73	224133.56
200401753	Serious	07/01/04	11:20	Wed	2		Dy Gvis	Wet	Wet	S Sign	Hillcrest	B Cline	Yes	X Roads	Head-on R			Exit/Ent	303228.33	221784.02
200303576	Minor	17/08/03	10:20	Sun	3		Dy Gvis	Dry	Dry		Bend	B Cline	No		#N/A			Att Okake	305384.87	226162.65
200206813	Minor	03/06/02	18:05	Mon	1		Dy Gvis	Dry	Dry		Bend	C Cline	Yes		Single Veh	Other			303717	224392
200206657	Serious	13/10/02	1:45	Sun	1		Dk Nlit	Dry	Dry		Bend	C Cline	Yes		Single Veh	Ditch		Other	305311	226133
200205351	Serious	19/12/02	16:50	Thur	2		Dk Nlit	Dry	Dry		Hillcrest	N Mark	No		Head-on C			Att Okake	304200	225200
200105616	Minor	06/08/01	14:00	Mon	2		Dy Pvis	Wet	Wet	S Sign	Bend		Unknown	Y Junct	Head-on C				305300	226200
200104688	Minor	14/02/01	21:58	Wed	1		Dk Nlit	Wet	Wet		Bend	C Cline	Unknown		Single Veh	Ditch			303900	224800
200101821	Serious	16/01/01	23:40	Tues	1		Dk Uilt	Dry	Wet		Bend	B Cline	Yes		Single Veh	Wall/Gate			303700	224200
200100151	Fatal	28/06/01	7:15	Thur	2		Dy Gvis	Dry	Wet		Bend		Yes		Head-on C				303100	222500
200003841	Serious	22/10/00	5:20	Sun	1		Dk Nlit	Wet	Wet		Bend	C Cline	Yes		Head-on C	Boll/Island			303700	224200
200003215	Minor	08/04/00	20:45	Sat	3		Dk Plight	Dry	Dry		Straight	B Cline	Yes		R-end St				305100	226000
199907537	Minor	13/11/99	21:15	Sat	2		Dk Plight	Dry	Dry	Y Sign	Straight	N Mark	No	T Junct	R-end Lrm			Turn lt	305300	226100
199905791	Minor	05/09/99	16:00	Sun	1		Dy Gvis	Dry	Dry		Bend	C Cline	Yes		Single Veh	Ditch			304800	225900
199807264	Minor	22/10/98	18:30	Thur	2		Dk Plight	Wet	Wet	Y Sign				T Junct	R-end St				304400	225600
199806533	Minor	17/09/98	15:30	Thur	3		Dy Gvis	Dry	Dry		Straight	B Cline	Yes	T Junct	R-end Rlm			T A Act	303600	224000
199706544	Minor	19/09/97	20:45	Fri	2		Dk Nlit	Dry	Dry		Hillcrest	N Mark	Yes		Head-on C				303100	221900
199608923	Minor	22/12/96	1:00	Sun	2		Dk Nlit	Dry	Frost/Ice		Bend	B Cline	Yes		Head-on C				303800	224400
199602273	Minor	10/03/96	23:15	Sun	2		Dk Plight	Dry	Dry	Y Sign	Bend	B Cline	No	Y Junct	Head-on C			Exit/Ent	305300	226200

Acc No	Type	Date	Time	Day	No Vchs	No Peds	Light Condition	Weather	Surface	Junction Control	Road Character	Road Marking	Skidding	Junction Type	Primary Coll Type	Single Vehicle Collided With	Ped Action	Driver Action	Northing	Easting
200205559	Minor	05/12/02	16:00	Thur	2		Dk Nlht	Dry	Dry	No Ctrl	Bend	C Cline	Yes	Y Junct	Head-on C			T A Act	303100	221300
200203631	Minor	24/09/02	12:00	Tues	2		Dk Nlht	Dry	Dry	No Ctrl	Straight	C Cline	No	X Roads	Head-on R			Turn lft	301800	219300
200200108	Fatal	01/07/02	18:45	Mon	2		Dy Pvis	Wet	Wet		Straight	C Cline	No		Head-on C				302900	221100
200003877	Serious	29/05/00	13:35	Mon	3		Dy Gvis	Dry	Dry		Bend	C Cline	No		Head-on C				302700	221100
200002586	Minor	13/01/00	11:50	Thur	2		Dy Gvis	Dry	Wet	Y Sign	Bend	C Cline	Yes	T Junct	Head-on C			T A Act	303000	221200
200000297	Fatal	30/11/00	17:35	Thur	1	2	Dk Nlht	Wet	Wet		Straight	B Cline	No		Pad	Walk on Traf			301900	219400
199907493	Serious	22/11/99	20:00	Mon	2		Dk Plight	Wet	Wet		Bend	B Cline	No		R-end St			Exit/Ent	301800	219400
199607825	Minor	04/11/98	11:15	Wed	1		Dy Gvis	Dry	Wet		Bend	C Cline	Unknown		Single Veh	Ditch		Other	302600	221100
199707260	Serious	12/10/97	19:45	Sun	2		Dk Nlht	Dry	Dry		Straight	B Cline	No		R-end St			T A Act	302200	220000
199706557	Serious	12/09/97	19:30	Fri	2		Dy Gvis	Dry	Dry		Straight	B Cline			Head-on R			T A Act	302000	219600
199705930	Minor	09/08/97	13:30	Sat	1		Dy Gvis	Dry	Dry		Bend	C Cline	Yes	T Junct	Pad	Other Xing	Other		303000	221400
199704254	Minor	12/06/97	15:50	Thur	3		Dy Pvis	Wet	Wet		Straight	C Cline	Unknown		R-end St			Other	302500	220500
199701096	Minor	02/01/97	10:30	Thur	1		Dy Gvis	Snow	Snow		Straight	B Cline	No		Single Veh	Ditch		Att Obake	302300	220000
199607619	Minor	27/10/96	15:30	Sun	2		Dy Pvis	Wet	Wet	Rd Mk	Bend	C Cline	Unknown	T Junct	A Bth St			Turn Rgt	301800	219400
199603512	Minor	13/05/96	9:00	Mon	1		Dy Gvis	Dry	Dry		Straight	B Cline	No		Single Veh	Other			302100	219800

Acc No	Type	Date	Time	Day	No Vehs	No Peds	Light Condition	Weather	Surface	Junction Control	Road Character	Road Marking	Slidding	Junction Type	Primary Coll Type	Single Vehicle Collided With	Ped Action	Driver Action	Northing	Eastng
200404556	Minor	10/09/04	16:40	Fri	2		Dy Gvis	Dry	Dry	S Sign	Straight	C Cline	Unknown	T Junct	#N/A			Exit/Ent	298987.83	215994.66
200404338	Minor	09/11/04	3:00	Tues	1		Dk Plight	Wet	Wet		Straight	B Cline	Yes		Single Veh	Ditch		Other	298624.46	215174.7
200404333	Serious	08/11/04	13:20	Mon	2		Dk Glight	Dry	Wet		Bend	C Cline	Yes		Head-on C			T A Act	298270.72	214231.76
200302825	Serious	28/08/03	17:30	Thur	2		Dy Pvis	Wet	Wet		Straight	B Cline	Unknown		Head-on R			Turn Rgt	300024.65	217620.77
200301361	Minor	18/02/03		Tues	2		Dy Gvis	Dry	Dry			B Cline	Unknown		#N/A			T A Act	298592.4	215079.4
200300209	Fatal	25/12/03	22:30	Thur	2		Dk Glight	Wet	Wet		Straight	B Cline	Unknown		Head-on C			Other	298619.57	215157.87
200207379	Minor	31/12/02	7:40	Tues	1		Dk Ulit	Dry	Wet		Straight	B Cline	Unknown		Single Veh	Wall/Gate			300015	217605
200205142	Minor	13/12/02	20:20	Fri	1		Dk Nilt	Dry	Wet		Straight	C Cline	Unknown		Single Veh	Ditch		Alt Otake	299200	216200
200103648	Minor	02/07/01	12:45	Mon	2		Dy Gvis	Dry	Dry	S Sign	Straight	B Cline	No	T Junct	Head-on C			T A Act	299000	216000
200102757	Minor	10/04/01	8:30	Tues	2		Dy Gvis	Dry	Wet		Straight	C Cline	Unknown		R-end St			Other	299900	217500
200102075	Minor	21/03/01	15:40	Wed	1	1	Dy Gvis	Dry	Dry	50ft Ped	Straight	B Cline	Yes		Ped	X mask Pk vh		Other	298100	214200
200101867	Minor	31/03/01	17:00	Sat	1		Dy Gvis	Dry	Dry		Straight	B Cline	No		Single Veh	Other		Other	298900	215800
200101555	Minor	14/03/01	9:00	Wed	3		Dy Gvis	Dry	Wet		Straight	B Cline	Yes		R-end Rtrn			Turn Rgt	299000	216100
200101385	Serious	01/07/01	18:45	Sun	2		Dy Gvis	Dry	Dry		Straight	B Cline	Yes		A Rtrn			T A Act	298900	215800
200005108	Minor	13/08/00	12:45	Sat	3		Dy Gvis	Dry	Dry	Rd Mk	Straight	B Cline	Unknown	T Junct	R-end St				299000	216000
200004943	Minor	11/09/00	14:30	Mon	1	1	Dy Gvis	Dry	Dry		Straight		Yes		Ped	Walk on Traf		T A Act	300000	217600
200004942	Minor	06/08/00	17:20	Sun	3		Dy Gvis	Dry	Dry		Straight	B Cline	No		R-end St				298300	214500
200004836	Minor	02/07/00	14:30	Sun	2		Dy Gvis	Dry	Wet		Straight	B Cline			R-end St			Turn Rgt	297800	213900
200004830	Minor	02/12/00	8:25	Sat	2		Dy Gvis	Dry	Dry		Hillcrest	B Cline	No		Head-on C			T A Act	298000	214100
200003460	Minor	12/05/00	15:40	Fri	3		Dy Gvis	Dry	Dry		Straight	B Cline	Yes		A Rtrn				297800	214200
199907813	Minor	11/12/99	18:55	Sat	1	1	Dk Glight	Dry	Wet		Straight	B Cline	No		Ped	Siding in Rd			298000	214200
199906165	Minor	01/10/99	13:00	Fri	3		Dy Pvis	Wet	Wet		Straight	C Cline	No		R-end St			Turn Rgt	300300	218000
199901091	Minor	23/01/99	11:20	Sat	2		Dy Pvis	Wet	Wet		Straight	B Cline	Yes		R-end Ltrn			Alt Otake	299000	216300
199804334	Minor	16/06/98	15:50	Tues	2		Dy Gvis	Dry	Dry	Rd Mk	Straight	B Cline	Yes	T Junct	Head-on R			Alt Otake	299000	216000
199801994	Minor	13/02/98	23:25	Fri	1		Dk Nilt	Dry	Dry		Bend	B Cline	Yes		Single Veh	Tree			300100	217700
199801867	Minor	25/02/98	17:30	Wed	1	1	Dy Gvis	Dry	Dry		Straight		No		Ped		Other Xing	T A Act	297700	213800
199801602	Minor	15/02/98	13:30	Sun	2		Dy Gvis	Dry	Dry		Straight	B Cline	No		#N/A				298400	214600

Acc No	Type	Date	Time	Day	No Vehs	No Peds	Light Condition	Weather	Surface	Junction Control	Road Character	Road Marking	Skidding	Junction Type	Primary Coll Type	Single Vehicle Collided With	Ped Action	Driver Action	Northing	Easting
199800173	Fatal	26/05/98	14:05	Tues	1		Dy Gvis	Dry	Dry		Bend	C Cline	No		Single Veh	Other			301400	219200
199706631	Minor	26/09/97	9:12	Fri	2		Dy Gvis	Dry	Dry		Straight	C Cline	No	T Junct	Head-on R		Other		297800	214000
199706200	Minor	22/08/97	9:00	Fri	2		Dy Gvis	Dry	Dry		Straight	N Mark			R-end Rtrn		Turn Rgt		298500	215300
199705308	Minor	25/07/97	9:40	Sat	2		Dy Gvis	Wet	Wet		Straight	C Cline	Unknown		Head-on C		T A Act		301000	218800
199704285	Minor	06/06/97	16:00	Fri	1	1	Dy Gvis	Dry	Dry		Straight	B Cline	No		Ped		T A Act		298400	214600
199704079	Minor	30/05/97	19:36	Fri	2		Dy Gvis	Dry	Dry		Bend	C Cline	Unknown		R-end St		Reverse		301600	219200
199703968	Minor	27/05/97	19:20	Tues	2		Dy Gvis	Dry	Dry	No Ctrl	Straight	N Mark	No	X Roads	A Bth St		Exit/Ent		297800	214300
199703922	Minor	30/05/97	18:00	Fri	2		Dy Gvis	Dry	Dry		Straight	B Cline	No		R-end St				298200	214600
199702746	Minor	27/04/97	15:15	Sun	2		Dy Pvis	Wet	Wet	S Sign	Straight	B Cline	Unknown	T Junct	A Rtrn		Other		298800	216000
199701200	Serious	03/01/97	6:30	Fri	2		Dk Glight	Snow	Snow		Straight	B Cline	Yes		R-end St		Other		298400	215300
199604113	Serious	26/05/96	21:50	Sun	3		Dk Nlft	Wet	Wet		Straight	C Cline	Unknown		#N/A				301000	218700
199603111	Minor	23/04/96	18:55	Tues	1	1	Dy Gvis	Unknown			Straight	N Mark	No	T Junct	Ped		Turn lft		298000	214300
199600193	Fatal	16/07/96	14:30	Tues	2		Dy Gvis	Dry	Dry		Bend	B Cline	Yes		Head-on C		Other		301500	219200

Acc No	Type	Date	Time	Day	No Vehs	No Peds	Light Condition	Weather	Surface	Junction Control	Road Character	Road Marking	Skidding	Junction Type	Primary Coll Type	Single Vehicle Collided With	Ped Action	Driver Action	Northing	Easting
200404339	Minor	20/12/04	6:40	Mon	2		Dk NlIt	Wet	Wet			B Cline	Unknown		R-end St			Alt Otake	296913.07	212849.37
200402932	Minor	06/07/04	15:35	Tues	2		Dy Gwis	Dry	Wet	Rd Mk	Straight	C Cline	Unknown	T Junct	A Bth St			Turn Rgt	296705.53	212123.51
200401342	Minor	31/01/04	11:35	Sat	1		Dy Gwis	Wet	Wet		Bend	C Cline	No		Single Veh	Wall/Gate		Other	294688.92	208490.93
200304787	Minor	24/10/03	16:55	Fri	2		Dk Glight	Dry	Dry	S Sign		B Cline	Yes	T Junct	R-end Ltm				297382.62	213469.91
200304671	Minor	18/12/03	19:40	Thur	2		Dk NlIt	Dry	Dry		Straight	B Cline	No		R-end St				296551.39	211450.9
200302823	Minor	28/08/03	15:55	Thur	2		Dy Gwis	Dry	Dry		Straight	B Cline	Unknown		A Rtm		Turn Rgt	297293.59	213369.12	
200203478	Minor	31/08/02	10:50	Sat	2		Dy Gwis	Dry	Dry		Bend	C Cline	Unknown		Head-on C				296400	210600
200203438	Minor	11/08/02	13:00	Sun	3		Dy Gwis	Dry	Dry	Rd Mk	Straight	C Cline	Unknown		R-end Rtm			Other	298500	211400
200203437	Minor	18/08/02	11:30	Sun	2		Dy Gwis	Wet	Wet		Bend	B Cline	Unknown		A Bth St		T A Act	297000	213000	
200203427	Serious	28/02/02	19:10	Thur	1		Dk NlIt	Dry	Dry		Bend	N Mark	Unknown		Single Veh	Wall/Gate			296300	210700
200200341	Fatal	17/06/02	0:20	Mon	1		Dk UlIt	Dry	Dry		Straight	B Cline	No		Single Veh	Ditch			295306	209770
200105109	Minor	25/10/01	10:45	Thur	2		Dy Pvis	Wet	Wet		Bend	C Cline	Unknown		Head-on C		T A Act	296300	210600	
200102758	Minor	17/04/01	19:30	Tues	1		Dk NlIt	Wet	Wet	No Ctrt	Straight	B Cline	Yes	T Junct	Single Veh	Ditch			296500	211500
200101574	Minor	03/01/01	7:30	Wed	1		Dy Pvis	Dry	Frost/Ice	Rd Mk	Straight	C Cline	Yes	T Junct	Single Veh	Ditch	Other	295400	209700	
200101573	Minor	13/06/01	16:00	Wed	2		Dy Gwis	Dry	Dry	S Sign	Bend	C Cline	Yes	T Junct	#N/A		Turn lft	294600	208200	
200100003	Fatal	05/04/01	8:15	Thur	2		Dy Pvis	Wet	Wet		Bend	C Cline	Unknown		Head-on C		T A Act	296300	210600	
200004751	Minor	24/07/00	20:00	Mon	1		Dy Gwis	Dry	Dry		Bend	C Cline			Single Veh	Ditch			295000	209200
200004648	Minor	28/05/00	18:20	Sun	1		Dy Gwis	Dry	Wet		Bend	C Cline	Unknown		Single Veh	Ditch		Other	296300	210600
200003926	Serious	21/12/00	21:40	Thur	1		Dk NlIt	Dry	Wet		Straight	B Cline	Unknown		Single Veh	Tree		Other	296300	210900
200003799	Serious	10/09/00	5:45	Sun	1		Dk UlIt	Dry	Wet		Bend	C Cline	Yes		Single Veh	Ditch			296300	210600
200001537	Minor	17/01/00	7:28	Mon	2		Dk UlIt	Dry	Dry		Bend	C Cline	Unknown		Head-on C		Other	296200	210600	
200001190	Fatal	12/07/00	9:20	Wed	2		Dy Gwis	Wet	Wet		Bend	C Cline	Yes		Head-on C		Other	296200	210700	
199907466	Minor	25/11/99	18:30	Thur	2		Dk NlIt	Wet	Wet		Straight	B Cline	Yes		R-end St				297200	213400
199907465	Minor	21/11/99	10:15	Sun	2		Dy Pvis	Frost/Ice	Frost/Ice		Bend	C Cline	Yes		Single Veh	Other	T A Act	295100	209600	
199905647	Minor	02/09/99	20:10	Thur	2		Dk UlIt	Dry	Dry		Bend	C Cline	No		Head-on C			294600	208400	
199904713	Minor	12/07/99	9:00	Mon	2		Dy Gwis	Wet	Wet		Bend	C Cline	Unknown		A Rtm		Other	296300	210700	
199902084	Minor	22/02/99	3:40	Mon	1		Dk Plight	Snow	Snow		Bend	C Cline	Yes		Single Veh	Other	Other	297000	213000	
199805093	Minor	26/07/98	11:30	Sun	1		Dy Gwis	Dry	Wet		Bend	C Cline	Unknown		Single Veh	Ditch			296700	213000
199804877	Minor	16/07/98	7:50	Thur	2		Dy Gwis	Dry	Dry	S Sign	Bend	C Cline	Yes		Head-on R		Turn Rgt	296200	210600	
199804527	Minor	25/06/98	15:45	Thur	2		Dy Pvis	Wet	Wet		Straight	B Cline	Unknown		Head-on C			297500	213500	
199802265	Minor	15/02/98	22:15	Sun	1		Dk NlIt	Dry	Dry		Bend	C Cline			Single Veh	Tree		296300	210700	
199800090	Fatal	18/04/98	19:25	Sat	1		Dy Gwis	Dry	Dry		Bend	B Cline	Yes		Single Veh	Tree	Other	296800	213000	

Acc No	Type	Date	Time	Day	No Vehs	No Peds	Light Condition	Weather	Surface	Junction Control	Road Character	Road Marking	Skidding	Junction Type	Primary Coll Type	Single Vehicle Collided With	Ped Action	Driver Action	Northing	Eastng
199708963	Minor	26/12/97	23:15	Fri	1	1	Dk Nilt	Dry	Dry		Straight	B Cline	No		Ped		X mask PK wh	T A Act	296800	212500
199708372	Serious	07/12/97	7:00	Sun	1		Dk Uilt	Wet	Wet		Bend	C Cline	Unknown		Single Veh	Wall/Gate			294800	208700
199706855	Minor	16/09/97	22:40	Tues	1		Dk Nilt	Dry	Wet		Bend	C Cline	Yes		Single Veh	Ditch		Other	296800	213000
199705779	Minor	20/08/97	8:20	Wed	2		Dy Gvis	Wet	Wet		Bend	DC Cline	Yes		Head-on C			Other	296800	212600
199704864	Minor	01/07/97	13:25	Tues	2		Dy Gvis	Wet	Wet	Rd Mk	Straight	B Cline	Yes	T Junct	R-end Rtm			Att Otake	296400	211000
199704618	Minor	28/06/97	15:00	Sat	2		Dy Gvis	Wet	Wet		Bend	C Cline	Yes		#/A		T A Act	294600	208200	
199701167	Serious	25/01/97	1:00	Sat	1		Dk Nilt	Dry	Wet		Bend	C Cline	Unknown		Single Veh	Tree			295100	210600
199608826	Minor	18/12/96	9:10	Wed	2		Dy Gvis	Dry	Wet	Rd Mk	Straight	B Cline	Unknown	T Junct	R-end St			Turn Rgt	297400	213500
199607092	Minor	13/10/96	13:25	Sun	2		Unknown	Wet	Wet	Y Sign	Straight	C Cline	Unknown	T Junct	Head-on R			Turn Rgt	295300	209700
199603321	Minor	19/04/96	16:00	Fri	5		Dy Pvis	Wet	Wet		Straight	B Cline	Yes		R-end St				296600	212000
199603110	Serious	24/04/96	12:50	Wed	1		Dk Nilt	Dry	Wet		Bend	C Cline	No		Single Veh	Wall/Gate			295900	210400
199601690	Minor	10/02/96	2:50	Sat	1	1	1 Dk Uilt	Dry	Dry		Straight	B Cline	No		Ped		X mask PK wh	Att Otake	298000	213300
199601174	Minor	23/01/96	18:50	Tues	1		Dk Nilt	Dry	Dry		Straight	B Cline	No		Single Veh	Animal		Other	296800	212400

Acc No	Type	Date	Time	Day	No Vehs	No Peds	Light Condition	Weather	Surface	Junction Control	Road Character	Road Marking	Skidding	Junction Type	Primary Coll Type	Single Vehicle Collided With	Ped Action	Driver Action	Northing	Easting
200404549	Serious	12/06/04	19:00	Sat	3		Dy Gvis	Dry	Dry	No Ctrl	Straight	L Mark	Yes	X Roads	A Rtm			T A Act	293395.19	205388.35
200304673	Minor	24/07/03	7:40	Thur	2		Dy Gvis	Wet	Wet		Bend	C Cline	Unknown		Head-on C				293537.82	204775.52
200302827	Minor	28/08/03	22:00	Thur	1		Dk Plight	Wet	Wet		Bend	C Cline	Unknown		Single Veh	Tree			293455.14	205387.82
200302826	Minor	17/08/03	14:00	Sun	2		Dy Gvis	Dry	Dry	S Sign	Bend	C Cline	Unknown	X Roads	#N/A			T A Act	293447.32	206827.62
200302554	Minor	24/01/03	15:40	Fri	2		Dy Gvis	Dry	Dry		Bend	C Cline	Yes		Head-on C				293360.43	206094.64
200301767	Minor	05/04/03	20:50	Sat	1		Dk Plight	Dry	Dry	Rd Mk	Straight	B Cline	Yes	X Roads	Head-on C	Sliding in Rd	T A Act	293395.74	205371.33	
200301172	Serious	28/01/03	6:30	Tues	3		Dk Nlit	Unknown	Wet		Bend	C Cline	Unknown		Head-on C			T A Act	293536.81	204832.55
200207374	Minor	08/08/02	15:40	Thur	2		Dy Gvis	Wet	Wet	S Sign	Straight	B Cline	Unknown	X Roads	#N/A				293448	206831
200207363	Minor	28/03/02	7:30	Thur	2		Dy Gvis	Dry	#N/A		Bend	B Cline	Yes		Head-on C			T A Act	293569	204510
200203969	Minor	22/10/02	6:30	Tues	2		Dk Glight	Fog/Mist	Wet	S Sign	Straight	C Cline	No	X Roads	#N/A	Ditch			293400	205500
200203628	Serious	22/08/02	21:30	Sun	2		Dk Plight	Dry	Dry		Hillcrest	C Cline	Yes		Head-on C				293400	205000
200203438	Minor	03/03/02	18:30	Sun	2		Dk Nlit	Dry	Dry	No Ctrl	Bend	C Cline	Unknown	C Junct	Head-on C			T A Act	293500	204700
200200097	Fatal	11/09/02	17:15	Wed	2		Dy Gvis	Dry	Dry		Bend	C Cline	Yes		Head-on C				293400	205100
200105076	Minor	24/09/01	17:00	Mon	2		Dy Gvis	Dry	Dry		Bend	C Cline	Yes		Head-on C			Ch Lanes	293400	205100
200103889	Minor	07/07/01	9:30	Sat	2		Dy Gvis	Wet	Wet		Bend	C Cline	Unknown		Head-on C			Other	293400	205100
200101573	Minor	13/06/01	16:00	Wed	2		Dy Gvis	Dry	Dry	S Sign	Bend	C Cline	Yes	T Junct	#N/A			Turn lit	294600	208200
200101499	Minor	23/05/01	9:00	Wed	2		Dy Gvis	Dry	Dry	S Sign	Straight	B Cline	Yes	X Roads	R-end Rtm				293400	206800
200003923	Serious	28/06/00	13:30	Wed	2		Dy Gvis	Dry	Dry	S Sign	Bend	C Cline	Yes	X Roads	Head-on C			Other	293400	206800
200003857	Serious	17/12/00	16:30	Sun	2		Dk Nlit	Wet	Wet		Bend	C Cline	No		Head-on C				293400	204500
200003800	Serious	11/10/00	22:10	Wed	2		Dk Nlit	Wet	Wet	No Ctrl	Straight	B Cline	Unknown		Head-on C				294000	207600
200002999	Minor	28/04/00	9:05	Sat	2		Dy Gvis	Wet	Wet	S Sign	Bend	C Cline	Unknown	X Roads	A Bth St		Exit/Ent	293200	208800	
200002468	Minor	05/03/00	20:30	Sun	2		Dk Plight	Dry	Wet		Bend	C Cline	Unknown		Head-on C		Other	293600	204900	
200001298	Minor	18/01/00	22:35	Tues	1		Dk Nlit	Dry	Dry		Bend	C Cline	Unknown		Single Veh	Ditch	T A Act	293200	206000	
200001154	Minor	06/01/00	12:27	Thur	2		Dy Pvis	Dry	Dry	S Sign	Bend	C Cline	Unknown	X Roads	Head-on C				293200	206800
200000208	Fatal	27/07/00	15:00	Thur	2		Dy Gvis	Dry	Dry	S Sign	Straight	C Cline	Yes	X Roads	#N/A				293500	206800
199905406	Serious	28/08/99	19:10	Sun	3		Dy Gvis	Wet	Wet	Rd Mk	Straight	L Mark	Unknown	T Junct	Head-on R			T A Act	293200	205400
199904724	Serious	12/07/99	9:00	Tues	2		Dy Gvis	Dry	Dry	S Sign	Some Grad	C Cline	Yes	T Junct	#N/A		Exit/Ent	293300	206800	
199904211	Minor	25/06/99	16:30	Fri	2		Dy Gvis	Dry	Dry	S Sign	Straight	C Cline	No	X Roads	A Bth St		Exit/Ent	293400	206800	
199904134	Minor	26/06/99	18:35	Sat	2		Dy Gvis	Wet	Wet	S Sign	Bend	C Cline	Unknown	T Junct	A Rtm		T A Act	293400	204600	
199904021	Minor	20/06/99	15:30	Sun	2		Dy Gvis	Dry	Dry	S Sign	Bend	C Cline	Unknown	X Roads	A Bth St		Exit/Ent	293400	206800	

Acc No	Type	Date	Time	Day	No Vehs	No Peds	Light Condition	Weather	Surface	Junction Control	Road Character	Road Marking	Skidding	Junction Type	Primary Coll Type	Single Vehicle Collided With	Ped Action	Driver Action	Northing	Easting
199903993	Minor	14/06/99	7:48	Wed	2		Dy Gvis	Dry		S Sign	Straight	C Cline	Unknown	X Roads	A Bth St			Exit/Ent	293200	205300
199902304	Serious	24/03/99	8:25	Wed	2		Dy Gvis	Wet			Bend	C Cline	Yes		Head-on C			Other	293500	204800
199901456	Minor	06/02/99	17:40	Sat	2		Dk Nilt	Wet		Y Sign	Straight	C Cline	Yes	T Junct	R-end St			T A Act	293300	205400
199807246	Serious	30/10/98	6:40	Fri	2		Dk Nilt	Other			Straight	B Cline	Yes		Head-on R			Other	293400	207000
199805704	Serious	28/07/98	18:50	Tues	2		Dy Gvis	Dry			Bend	C Cline	Yes		R-end St			Att Obake	293500	204900
199802594	Minor	30/03/98	14:56	Mon	2		Dy Gvis	Dry			Straight	C Cline	Yes		R-end St				294400	208000
199801643	Minor	09/02/98	9:30	Mon	2		Dy Gvis	Dry		S Sign	Bend	B Cline	No	X Roads	A Rbm			Turn Rgt	293400	206800
199708875	Serious	22/12/97	11:55	Mon	2		Dy Gvis	Fog/Mist		S Sign	Bend	B Cline		X Roads	R-end St			Exit/Ent	293400	206900
199706800	Minor	04/10/97	9:49	Sat	1		Dy Gvis	Dry			Bend	C Cline	Yes		Single Veh	Ditch			293400	204800
199705321	Minor	11/08/97	11:45	Mon	2		Dy Gvis	Dry		S Sign	Straight	B Cline	Yes	X Roads	A Bth St			Other	293400	206900
199705265	Minor	20/07/97	18:47	Sun	2		Dy Gvis	Dry		S Sign	Bend	B Cline	Unknown	X Roads	#N/A			Exit/Ent	293400	206800
199704618	Minor	28/06/97	15:00	Sat	2		Dy Gvis	Wet			Bend	C Cline	Yes		#N/A			T A Act	294600	208200
199704348	Minor	18/06/97	7:15	Wed	1		Dy Gvis	Dry		Other	Straight	B Cline	Yes		Single Veh	Ditch			293400	205000
199704036	Minor	26/03/97	8:00	Wed	2		Dy Gvis	Dry			Bend	B Cline		X Roads	Single Veh	Wall/Gate		T A Act	293300	206800
199703234	Minor	20/04/97	14:50	Sun	2		Dy Gvis	Dry		Rd Mk	Straight	B Cline	Yes	X Roads	A Bth St			Exit/Ent	293200	205400
199605632	Minor	10/08/96	19:15	Sat	2		Dy Gvis	Dry		Rd Mk	Straight	B Cline	Yes	X Roads	#N/A			T A Act	293400	205300
199603366	Minor	18/04/96	19:45	Thur	2		Dy Pvis	Wet			Straight	B Cline	Unknown		#N/A				293400	205400