

**ASSOCIATION OF GREATER MANCHESTER AUTHORITIES**

**GREATER MANCHESTER TRANSPORTATION UNIT**

**A Before and After Analysis of Accidents at  
Puffin Crossings and at Signalised Junctions  
with Nearside Indicators**

**GMTU Report 1257 February 2007**

**Summary**

This report summarises GMTU's analysis of road accidents at Puffin Crossings and signalised junctions with nearside indicators in Greater Manchester. In particular, this study covers:

- 58 sites converted from Pelican crossings to Puffins
- 87 sites at which a Puffin has been installed where there was previously no crossing facility
- 24 signal controlled junctions where modification has been made to replace far-side pedestrian indicators with nearside pedestrian indicators
- 15 signal controlled junctions with newly installed nearside pedestrian indicators.

For each group of sites, the Tanner test was performed, which combined the results from sites and compared any changes with suitable control data for the same time periods.

Overall, analyses for the two site groups suggest that nearside indicators do not present an increased risk to road users in general or specifically to pedestrians

Analysis of the signal controlled junctions, following modification of far-side to nearside indicators showed reductions in total and pedestrian accidents which were statistically significant at the 5% level. Newly installed nearside indicators also showed reductions but were not statistically significant.

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## 1 Introduction

- 1.1 The Puffin crossing was intended to be an alternative/replacement to the Pelican crossing in order to provide a safer environment for pedestrians. The fundamental difference between these crossings is that Puffin crossings incorporate nearside pedestrian indicators instead of far-side pedestrian indicators and they are further improved by being fitted with pedestrian detectors to determine and respond to the presence of pedestrians. Nearside pedestrian indicators can also be used at traffic signal controlled junctions, and these are increasingly being used in preference to far-side indicators at sites in Greater Manchester.
- 1.2 In January 2005, the Greater Manchester Transportation Unit (GMTU) published a report analysing the total and pedestrian accidents before and after implementation of 148 Puffin crossing sites across Greater Manchester. The low numbers of accidents at most sites, both before and after Puffin installation, made it difficult to attach any statistical significance to the results.
- 1.3 The Greater Manchester Urban Traffic Control (GMUTC) supplied a further update file providing 276 Puffin crossing sites and 185 signalised junctions with nearside pedestrian indicators, together with information on whether they were converted sites, modified sites or new sites and date of conversion, modification or installation. The following table summarises these Puffin sites that are analysed in this report;

Type of Site	Number of Sites		
	Converted	New	Total
Puffin Crossings	135	141	276
	Modified*	New	Total
Signalised Junctions with Nearside Indicators	129	56	185

Note: \* - A modified site is the replacement of far-side indicator to near-side indicator

- 1.4 To further evaluate the potential road safety benefits of Puffin crossings, this study assesses the accident record at converted puffin sites that previously had Pelican style pedestrian facilities and at newly installed Puffin crossings in Greater Manchester.
- 1.5 The previous report only considered Puffin crossings. This study also considers signalised junctions with nearside indicators.

## 2 Methodology

- 2.1 GMUTC supplied an update file providing a “fras or UTC reference” for 276 Puffin sites and 185 signalised junctions with nearside indicators. It is worth noting that these 276 sites also included those 148 sites previously used in the analysis reported in the GMTU Report 1005.
- 2.2 As with the previous study, GMTU used the newly submitted 129 Puffin unique site references to map the puffins by matching the “fras reference” to our existing geographical representation of pedestrian crossings. 50 metre “buffers” were set up automatically around each puffin crossing and then these were manually tailored to enable accident searches to be made for accidents within 50 metres of the puffins. The tailoring was required to ensure that, as far as possible, only accidents along the travelled route were considered.
- 2.3 The signalised junctions were treated in a similar fashion, but in this case 30 metre “buffers” were set up automatically around each junction and then these were manually tailored to enable accident searches to be made for accidents up to 20 metres of the junctions. The tailoring was required to ensure that only junction accidents were considered.
- 2.4 These accidents were then transferred to our GMAXI Freestyle database and analysed to produce accident totals by severity for three years before and after the installation/conversion/modification date of each site. The installation, conversion or modification dates ranged from May 1997 to September 2006. The appropriate accident data for each site ranging between June 1994 and August 2006 has therefore been used in the analysis.
- 2.5 Two of the earlier sites with implementation dates of April 1993 and September 1994 were excluded from the analysis, the reason being that accidents prior to 1994 were only coded to the accuracy of nearest 100 metres and therefore make it difficult to extract the appropriate accident data within the tailored “buffers” for those sites that required pre-1994 accidents.
- 2.6 The number of days of after data was also calculated so that sites without three years after data could be adjusted and analysed on the same basis as the other sites. 83 out of a total of 461 sites have less than one year after accident data and were excluded from the analysis.
- 2.7 Pedestrian and all accidents by severity were tabulated. An annual accident rate for each site before and after the implementation date was produced and accident savings or increases calculated. Separate analysis was undertaken on new and converted Puffin sites, whereas the signalised junctions with nearside indicators were split into new and modified sites for analysis.

- 2.8 Accident statistics by length of time after implementation were also assessed to determine whether the findings are related to nearness to installation/conversion/modification date. For those sites with full three year before and after data, each year after the conversion/installation/modification date was analysed separately to see whether there was any change in accident rate over time.
- 2.9 The significance of the results for those sites with full three year before and after data was assessed using the Tanner test.
- 2.10 The Appendix gives the full listing of the locations and implementation dates of sites by type, e.g., converted and new Puffins and then modified and new nearside indicators signalised junctions. This listing includes several sites that were commissioned recently but were excluded from the study because of insufficient after data.

### 3 Results – Converted Puffin Crossings

3.1 Tables 1 and 2 show the results for all and pedestrian accidents at converted puffin sites. 31 sites out of 135 had less than one year after data and were excluded from the analysis. One site had no accidents and two sites no pedestrian accidents before or after the conversion. The analysis indicates;

- A decrease in killed and serious (KSI) accidents of 27% and a 10% decrease in the overall accident rate.
- A small increase in KSI pedestrian accidents of 1% but an 11% decrease in the overall pedestrian accident rate.

No of Sites	Time since Conversion	Before			After			After-Before		
		KSI	Slight	All	KSI	Slight	All	KSI	Slight	All
32	1 -2 years	16	83	99	8	80	88	-7	-4	-11
14	2 - 3 years	19	121	140	12	118	129	-7	-4	-11
58	3 years	12	98	110	11	88	99	-1	-10	-11
<b>104</b>	<b>All Sites</b>	<b>14</b>	<b>97</b>	<b>111</b>	<b>10</b>	<b>89</b>	<b>100</b>	<b>-4</b>	<b>-7</b>	<b>-11</b>

No of Sites	Time since Conversion	Before			After			After-Before		
		KSI	Slight	All	KSI	Slight	All	KSI	Slight	All
32	1 -2 years	10	29	40	4	16	19	-7	-13	-20
14	2 - 3 years	7	31	38	12	45	57	4	14	19
58	3 years	7	24	30	10	21	30	3	-3	0
<b>104</b>	<b>All Sites</b>	<b>8</b>	<b>26</b>	<b>34</b>	<b>8</b>	<b>23</b>	<b>31</b>	<b>0</b>	<b>-4</b>	<b>-4</b>

Notes: \* - To enable row values to be compared, the annual accident rate is shown as the number of accidents per 100 sites  
Any discrepancies in 'After-Before' figures are due to rounding.

#### 4 Results – New Puffin Crossings

4.1 Tables 5 and 6 show the results for the analysis for all and pedestrian accidents at new puffin sites. 12 sites out of 141 had less than one year after data and were excluded from the analysis. Thirteen sites had no accidents before or after the installation of a new crossing and 25 had no pedestrian accidents. The analysis indicates:

- The overall accident rate decreased by 28% and the number of KSI accidents decreased by 6%.
- Similarly, the pedestrian accident rate decreased by 28% but more encouragingly the number of KSI pedestrian accidents decreased by 31%.

No of Sites	Time since Installation	Before			After			After-Before		
		KSI	Slight	All	KSI	Slight	All	KSI	Slight	All
34	1 -2 years	7	69	75	5	37	42	-2	-32	-34
8	2 - 3 years	4	67	71	6	46	52	2	-21	-19
87	3 years	7	81	88	7	61	68	0	-20	-20
<b>129</b>	<b>All Sites</b>	<b>6</b>	<b>77</b>	<b>83</b>	<b>6</b>	<b>54</b>	<b>60</b>	<b>0</b>	<b>-23</b>	<b>-24</b>

No of Sites	Time since Installation	Before			After			After-Before		
		KSI	Slight	All	KSI	Slight	All	KSI	Slight	All
34	1 -2 years	4	15	19	0	12	12	-4	-2	-6
8	2 - 3 years	4	21	25	6	26	32	2	5	7
87	3 years	5	23	28	4	15	19	-1	-8	-9
<b>129</b>	<b>All Sites</b>	<b>5</b>	<b>21</b>	<b>25</b>	<b>3</b>	<b>15</b>	<b>18</b>	<b>-1</b>	<b>-6</b>	<b>-7</b>

Notes: \* - To enable row values to be compared, the annual accident rate is shown as the number of accidents per 100 sites  
Any discrepancies in 'After-Before' figures are due to rounding.

## 5 Results – Signalised Junctions with Modified Nearside Indicators

**Note that a modification is the replacement of a far-side indicator to a nearside indicator.**

5.1 Tables 5 and 6 show the results for all and pedestrian accidents at signalised junctions with modified nearside indicators. 28 sites out of 129 had less than one year after data and were excluded from the analysis. All 101 sites had accidents but five sites had no pedestrian accidents before or after the modification. The analysis indicates;

- All accidents have decreased by 23% and KSI accidents by 22%.
- A decrease in KSI pedestrian accidents of 32% and a 17% decrease in the overall accident rate.

No of Sites	Time since Modification	Before			After			After-Before		
		KSI	Slight	All	KSI	Slight	All	KSI	Slight	All
38	1 -2 years	22	247	269	19	227	246	-3	-20	-23
39	2 - 3 years	11	240	251	10	168	177	-1	-73	-74
24	3 years	26	283	310	15	190	205	-11	-93	-104
<b>101</b>	<b>All Sites</b>	<b>19</b>	<b>253</b>	<b>272</b>	<b>15</b>	<b>195</b>	<b>210</b>	<b>-4</b>	<b>-58</b>	<b>-62</b>

No of Sites	Time since Modification	Before			After			After-Before		
		KSI	Slight	All	KSI	Slight	All	KSI	Slight	All
38	1 -2 years	9	32	41	8	51	59	-1	19	18
39	2 - 3 years	9	53	62	5	39	45	-4	-14	-18
24	3 years	17	82	99	10	44	54	-7	-37	-44
<b>101</b>	<b>All Sites</b>	<b>11</b>	<b>52</b>	<b>63</b>	<b>7</b>	<b>45</b>	<b>52</b>	<b>-4</b>	<b>-7</b>	<b>-11</b>

Notes: \* - To enable row values to be compared, the annual accident rate is shown as the number of accidents per 100 sites

Any discrepancies in 'After-Before' figures are due to rounding.

## 6 Results – Signalised Junctions with New Nearside Indicators

6.1 Tables 7 and 8 show the results for the analysis for all and pedestrian accidents at signalised junctions with new nearside indicators. 12 sites out of 56 had less than one year after data and were excluded from the analysis. Four sites had no accidents before or after the installation of a new nearside indicator and seventeen had no pedestrian accidents. The analysis indicates:

- The number of KSI accidents decreased by 38% and overall accidents decreased by 23%.
- The pedestrian accident rate decreased by 64% and the number of KSI pedestrian accidents decreased by 53%.

No of Sites	Time since Installation	Before			After			After-Before		
		KSI	Slight	All	KSI	Slight	All	KSI	Slight	All
15	1 -2 years	7	142	149	11	125	136	4	-17	-13
14	2 - 3 years	13	133	146	9	71	80	-3	-63	-66
15	3 years	13	98	111	0	91	91	-13	-7	-20
<b>44</b>	<b>All Sites</b>	<b>11</b>	<b>124</b>	<b>135</b>	<b>7</b>	<b>97</b>	<b>103</b>	<b>-4</b>	<b>-27</b>	<b>-31</b>

No of Sites	Time since Installation	Before			After			After-Before		
		KSI	Slight	All	KSI	Slight	All	KSI	Slight	All
15	1 -2 years	4	27	31	0	8	8	-4	-19	-23
14	2 - 3 years	3	18	21	6	3	9	3	-15	-11
15	3 years	4	9	13	0	7	7	-4	-2	-7
<b>44</b>	<b>All Sites</b>	<b>4</b>	<b>18</b>	<b>22</b>	<b>2</b>	<b>6</b>	<b>8</b>	<b>-2</b>	<b>-12</b>	<b>-14</b>

Notes: \* - To enable row values to be compared, the annual accident rate is shown as the number of accidents per 100 sites  
Any discrepancies in 'After-Before' figures are due to rounding.

## 7 Results – Puffin Crossing Facilities By Time Since Installation

7.1 The following analysis is an attempt to establish whether the results vary over time from the installation/conversion date.

7.2 All, KSI and pedestrian accidents for converted and new Puffins that have full three year before and after data have been assessed. The number of accidents has been analysed by each year after conversion or installation to ascertain whether there is a change in accident rate over time.

7.3 Tables 9 and 10 present these results for converted and new Puffins respectively.

- At converted sites the accident record in the 1st year after conversion was worse than the before period for all three categories of accidents.
- At new sites, accidents for all three categories fell below the before period except for KSI accidents in the second year after installation.

	58 Converted Sites			After-Before		
	KSI	All	All Ped	KSI	All	All Ped
<b>Before (Rate/year)</b>	<b>7</b>	<b>64</b>	<b>18</b>	-	-	-
First Year After	8	65	23	1	1	5
Second Year After	3	53	16	-4	-11	-2
Third Year After	8	54	15	1	-10	-3
<b>After (Rate/year)</b>	<b>6</b>	<b>57</b>	<b>18</b>	<b>-1</b>	<b>-7</b>	<b>0</b>

	87 New Sites			After-Before		
	KSI	All	All Ped	KSI	All	All Ped
<b>Before (Rate/year)</b>	<b>6</b>	<b>76</b>	<b>24</b>	-	-	-
First Year After	2	55	15	-4	-21	-9
Second Year After	10	63	23	4	-13	-1
Third Year After	5	59	12	-1	-17	-12
<b>After (Rate/year)</b>	<b>6</b>	<b>59</b>	<b>17</b>	<b>0</b>	<b>-17</b>	<b>-8</b>

Note: Any discrepancies in 'After-Before' figures are due to rounding.

## 8 Results – Signalised Junctions with Nearside Indicators By Time Since Installation

8.1 Again, the following analysis is an attempt to establish whether the results vary over time from the installation/modification date.

8.2 All, KSI and pedestrian accidents for junctions with modified nearside indicators and junctions with new nearside indicators that have full three year before and after data have been assessed. The number of accidents has been analysed by each year after modification or installation to ascertain whether there may be an initial problem with puffins close to the conversion/modification date.

8.3 Tables 11 and 12 present these results for modified and new nearside indicators respectively.

- At signalised junction with modified nearside indicators, the accident record in each year after modification was lower than the before period for all three categories of accidents, the lowest being in the third year after.
- The results at new sites followed similar pattern to those sites with modification.

	24 Modified Sites			After-Before		
	KSI	All	All Ped	KSI	All	All Ped
<b>Before (Rate/year)</b>	6	74	24	-	-	-
First Year After	6	53	20	-1	-21	-3
Second Year After	5	56	15	-1	-19	-9
Third Year After	1	50	6	-5	-24	-18
<b>After (Rate/year)</b>	4	49	13	-3	-25	-11

	15 New Sites			After-Before		
	KSI	All	All Ped	KSI	All	All Ped
<b>Before (Rate/year)</b>	2	17	2	-	-	-
First Year After	0	13	0	-2	-4	-2
Second Year After	0	15	2	-2	-2	0
Third Year After	0	13	1	-2	-4	-1
<b>After (Rate/year)</b>	0	14	1	-2	-3	-1

Note: Any discrepancies in 'After-Before' figures are due to rounding.

## 9 Tanner Test – Site Selection and Control Data

- 9.1 It was decided that further statistical analysis was required to assess the significance of the results for those sites with full three year before and after data. The test aims to determine the effect of a given measure over several sites when the duration of time since implementation varies between sites. The selected sites can be summarised as follows:

Type of Site	Number of Sites		
	Converted	New	Total
Puffin Crossings	58	87	145
	Modified*	New	Total
Signalised Junctions with Nearside Indicators	24	15	39

Note: \* - A modified site is the replacement of far-side indicator to near-side indicator

- 9.2 The Tanner test is used in situations where it is required to combine accident data from a number of sites where similar changes have taken place, such as implementation of Puffin crossing facilities across a number of sites. The analysis performs two functions. Firstly it tests the overall effects for all sites combined, and secondly it tests for variation between the different sites.
- 9.3 To conduct this test, control data were required. For this study, total and pedestrian accidents for the 267 Pelican crossings in the county were used as a control for the Puffin crossings. For signalised junctions with nearside indicators, total and pedestrian accidents for the rest of the county were used as a control.
- 9.4 For the Puffin crossing sites, this study aims to compare the change in accidents at these sites (site data) with the accidents occurring near 267 Pelican crossings over the same period (control data) and test the statistical significance of any differences using the Tanner test. Since the control data is at least 10 times as numerous as the site data and the two sets of data are mutually exclusive, the control data is suitable to be used in the statistical testing. For all sites 50 metre “buffers” were set up automatically around each Pelican crossing and then these were manually tailored to enable accident searches to be made for accidents within 50 metres of the Pelicans. The tailoring was required to ensure that, as far as possible, only accidents along the travelled route were considered.

- 9.5 For the signalised junctions with nearside indicators, the analysis aims to compare the change in accidents at these sites (site data) with the accident figures from the rest of the county over the same period (control data) and test the statistical significance of any differences using the Tanner test. Since the control data is at least 10 times as numerous as the site data and the two sets of data are mutually exclusive, the control data is suitable to be used in the statistical testing.
- 9.6 The Tanner test uses two parameters to determine the statistical significance of differences in accident data before and after implementation of the revised arrangements;
- “t” is used to test the overall effect over all the sites combined, relative to control data;
  - “X<sup>2</sup>” is used to test whether the effect varies significantly from site to site.
- 9.7 In this study 95% confidence level was used as a threshold. For those sites where the number of accidents both before and after implementation was zero, the zeros were substituted by 0.01 to allow the Tanner test to run correctly.

## 10 Tanner Test – Results

10.1 Table 14 presents the Tanner test results for all the analyses performed.

Type of Site		No. of Sites	All			Pedestrian		
			% Change	X <sup>2</sup>	t	% Change	X <sup>2</sup>	t
Puffin Crossings	Converted	58	3	67.98	0.318	16	51.56	0.758
	New	87	-12	84.19	-1.220	-21	61.63	-1.280
Signalised Junctions with Nearside Indicators	Modified	24	-24	32.65	-2.047	-38	18.30	-2.404
	New	15	-5	30.38	-0.135	-43	1.93	-0.720

- % Change = change over and above that in the control sites
- The interpretation of “t” is given by referring to a table of percentage points of the t-distribution for infinite degrees of freedom referring. A t-value of 1.96 would represent a 5% significance level. “t” indicates the level of significance of the overall effect of the changes.
- “X<sup>2</sup>” is interpreted by reference to a table of percentage points for the X<sup>2</sup> distribution, for N-1 degrees of freedom, where N is the number of sites being tested. If X<sup>2</sup> is significant, we may conclude that the effect of the installation/conversion/modification is not the same at all sites, i.e., the effect of the change varied from site to site.
- If the Tanner test is performed for a site group and the results show that the percentage reduction in accidents over and above that recorded at control sites is statistically significant, this means that the 'after'/'before' ratios at the analysed puffin sites are greater than those in the corresponding control areas, i.e. the converted, new or modified puffin has had effect and has therefore reduced the number of accidents significantly.

## Puffin Sites

- 10.2 For those Puffin crossing sites where a Puffin crossing replaced a Pelican crossing (N=58), there was a 10% reduction in total accidents over all 58 sites. The Tanner test showed that this actually represented an increase of 3% relative to control data (the 267 Pelican crossing sites). The difference was not statistically significant. At these conversions, the  $X^2$  result showed that this effect did not vary significantly across all the sites. Therefore, the conversion of all 58 Puffin sites has not reduced the number of accidents significantly.
- 10.3 When examining the pedestrian accidents for these converted Puffin sites, there was no reduction in accidents over all 58 sites. A Tanner test showed that this actually represented an increase of 16% relative to control data. The difference was not statistically significant. At these conversions, the  $X^2$  result showed that the effect did not vary significantly across all the sites. Therefore, the conversion of all 58 Puffin sites has not increased or decreased the number of pedestrian accidents significantly.
- 10.4 For those Puffin crossing sites where there had been no formal crossing facility previously (N=87), there was a 23% reduction in total accidents over all 87 sites. The Tanner test showed that this represented a reduction of 12% relative to control data (the 267 Pelican crossing sites). The difference was not statistically significant. At these new installations, the  $X^2$  result showed that the effect did not vary significantly across all the sites. Therefore, the introduction of these 87 Puffin sites has not reduced the number of accidents significantly.
- 10.5 When examining the pedestrian accidents for these new Puffin sites, there was a 32% reduction in accidents over all 87 sites. A Tanner test showed that this represented a decrease of 21% relative to control data. However, the difference was not statistically significant. At these installations, the  $X^2$  result showed that the effect did not vary significantly across all the sites. Therefore the introduction of all 87 Puffin sites has not reduced the number of pedestrian accidents significantly.
- 10.6 **In summary, total accidents and pedestrian accidents rose relative to controls where a Puffin crossing had replaced a Pelican crossing and fell at sites which had no formal crossing previously, but these changes were not statistically significant.**

## Signalised Junctions with Nearside Indicators

- 10.7 For those signalised junctions with modified nearside indicators (N=24), there was a 32% reduction in total accidents over all 24 sites. The Tanner test showed that this represented a 24% reduction relative to controls (the rest of the county) which was significant. At these modified sites, the  $X^2$  result showed that the effect did vary significantly across all the sites. Therefore, the modification of far-side to nearside indicators at all 24 signalised junctions has reduced the number of accidents significantly.
- 10.8 When examining the pedestrian accidents for these modified sites, there was a 45% reduction in accidents over all 24 sites. A Tanner test showed that this represented a 38% reduction relative to controls which was significant. At these modified sites, the  $X^2$  result showed that the effect did not vary significantly across all sites. Nevertheless, the modification of far-side to nearside indicators at all 24 signalised junctions has reduced the number of pedestrian accidents significantly.
- 10.9 For those signalised junctions with new nearside indicators (N=15), there was an 18% reduction in total accidents over all 15 sites. The Tanner test showed that this represented a reduction of 5% relative to control data (the rest of the county). The difference was not statistically significant. At these new installation junctions, the  $X^2$  result showed that the effect did vary significantly across all the sites. However, the introduction of new nearside indicators at these 15 signalised junctions has not reduced the number of accidents significantly.
- 10.10 When examining the pedestrian accidents for these signalised junctions with new nearside indicators, although there was a 50% reduction in accidents over all 15 sites but the actual number was very small. A Tanner test showed that this represented a decrease of 43% relative to control data. However, the difference was not statistically significant. At these new installation junctions, the  $X^2$  result showed that the effect did not vary significantly across all the sites. Therefore, the introduction of nearside indicators at these 15 signalised junctions has not reduced the number of pedestrian accidents significantly.
- 10.11 **In summary, both modified and new sites saw a drop in total and pedestrian accidents relative to controls after implementation of nearside indicators at signalised junctions. For those signalised junctions with modified nearside indicators, the percentage reduction in total accidents was statistically significant at the 5% level with significant variation between sites in this group, the percentage reduction in pedestrian accidents was also statistically significant at the 5% level but there was not significant variation between sites.**
- 10.12 **Analysis on both total and pedestrian accidents for those signalised junctions with new nearside indicators showed that the changes were not statistically significant, even though total accidents showed significant variations between sites.**

## 11 Conclusions

- 11.1 Separate accident analyses of total and pedestrian accidents before and after implementation of 58 converted and 87 newly installed Puffin crossing sites across Greater Manchester were conducted; these are the 145 sites with full three year before and after data. Accidents within the area 50m either side of the crossing was included in the analysis. For each site group, the Tanner test was performed to combine information from a number of sites and to compare any changes with suitable control data for the same periods.
- 11.2 Similarly, for those signalised junctions with nearside indicators, separate accident analyses of total and pedestrian accidents before and after implementation of 24 modified and 15 newly installed junction sites across Greater Manchester were carried out; these are the 39 sites with full three year before and after data. An area up to 20m around each junction was included in the analysis. For each site group, the Tanner test was performed to combine information from a number of sites and to compare any changes with suitable control data for the same periods.
- 11.3 Overall, analyses for the Puffin site groups suggest that Puffins do not present an increased risk to road users in general or specifically to pedestrians. Total and pedestrian accidents actually rose relative to controls where a Puffin crossing had replaced a Pelican crossing and fell at sites which had no formal crossing previously, but these changes were not statistically significant.
- 11.4 The results for the signalised junctions with nearside indicators were more encouraging, as both junction site groups saw a drop in total and pedestrian accidents relative to controls after the implementation. For those signalised junctions with modified nearside indicators, the percentage reduction in total accidents was statistically significant at the 5% level with significant variation between sites in this group, the percentage reduction in pedestrian accidents was also statistically significant at the 5% level but there was not significant variation between sites.
- 11.5 Analyses on both total and pedestrian accidents for those signalised junctions with new nearside indicators found that changes were not statistically significant, even though total accidents showed significant variations between sites. This might be explained by the relatively small numbers of sites and therefore the small number of accidents included in the analysis.



## **12. Appendix List of Sites**



<b>List of Converted Puffin Sites with Associated Accident Data Sorted by Conversion Date</b>																		
Site No.	Road Names	Easting	Northing	Authority	Conversion Date	Before (Rate/Year)		After 1st Year		After 2nd Year		After 3rd Year		After (Rate/Year)		No. of Days in		
						All	Ped	All	Ped	All	Ped	All	Ped	All	Ped	1st Yr	2nd Yr	3rd Yr
965	Buxton Rd S of Regent Rd, Stockport.	390261	388619	Stockport	19-Sep-97	1.33	0.00	1	0	2	1	4	1	2.33	0.67	365	365	366
1242	Princess Rd S of Darley Ave	382981	391874	Manchester	18-Nov-97	1.33	0.00	7	0	3	1	0	0	3.33	0.33	365	365	366
1243	Princess Rd N of Merseybank Ave	382835	391538	Manchester	09-Dec-97	4.33	1.33	4	1	2	1	5	3	3.66	1.67	365	365	366
675	Chester Rd NE of Chapel Ln (Arndale)	379557	394189	Trafford	09-Mar-98	1.00	0.00	0	0	1	0	2	1	1.00	0.33	365	366	365
877	Eccles Old Rd E of Chaseley Rd	380047	399508	Salford	15-Nov-98	1.00	0.33	1	0	0	0	0	0	0.33	0.00	365	366	365
816	Eccles Old Rd E of Hope Hospital Access	378520	399204	Salford	11-Jan-99	1.00	0.67	2	0	1	0	0	0	1.00	0.00	365	366	365
930	Wellington Rd North S of Milwain Dr	388057	392812	Stockport	12-Apr-00	2.33	0.33	1	0	1	0	1	0	1.00	0.00	365	365	365
928	Wellington Rd North N of Brackley Rd	388461	391985	Stockport	26-Apr-00	0.67	0.33	0	0	0	0	0	0	0.00	0.00	365	365	365
1233	Stockport Rd N of Mitre Rd	386707	395698	Manchester	28-Apr-00	1.67	1.00	3	3	1	0	0	0	1.33	1.00	365	365	365
892	Liverpool Rd E of Thorp St	375565	397864	Salford	14-May-00	0.67	0.00	0	0	0	0	0	0	0.00	0.00	365	365	365
1013	Princess Rd W of Greame St	383820	395400	Manchester	17-May-00	0.00	0.00	0	0	1	0	1	0	0.67	0.00	365	365	365
518	Liverpool Rd E of Lewis St	376578	398473	Salford	19-May-00	0.33	0.00	1	1	2	0	0	0	1.00	0.33	365	365	365
1086	Stockport Rd S of Cringle Rd	387776	393417	Manchester	02-Jun-00	1.33	0.00	3	0	1	0	0	0	1.33	0.00	365	365	365
666	Liverpool Rd E of Mather Rd	377312	398554	Salford	20-Jun-00	3.00	1.67	3	1	0	0	1	0	1.33	0.33	365	365	365
667	Liverpool Rd W of Gladstone Rd	377024	398562	Salford	20-Jun-00	0.33	0.00	0	0	0	0	0	0	0.00	0.00	365	365	365
921	Wellington Rd North S of Warwick Rd	388603	391657	Stockport	04-Sep-00	1.33	0.00	0	0	0	0	1	1	0.33	0.33	365	365	365
1227	Stockport Rd N of Winterford Ave	385923	396464	Manchester	07-Sep-00	0.33	0.33	2	2	0	0	1	0	1.00	0.67	365	365	365
4/044	High St N of New St	395229	404599	Oldham	04-Apr-01	0.67	0.33	1	1	2	0	1	1	1.33	0.67	365	365	366
1/106	St Helens Rd SW of Henry Lee St	370193	407484	Bolton	06-Apr-01	1.00	0.33	0	0	2	0	1	0	1.00	0.00	365	365	366
1/103	St Helens Rd NE of Venice St	370546	407770	Bolton	23-Apr-01	1.67	0.00	3	0	2	1	3	1	2.66	0.67	365	365	366
1/107	St Helens Rd NE of Henniker Rd	369425	406840	Bolton	25-Apr-01	0.33	0.00	0	0	1	0	1	0	0.67	0.00	365	365	366
1/104	St Helens Rd SW of Church Ave	370436	407684	Bolton	09-May-01	2.00	0.00	3	0	0	0	4	0	2.33	0.00	365	365	366
1080	Stockport Rd S of Crayfield Rd	387566	393800	Manchester	11-May-01	1.67	0.33	0	0	1	0	1	1	0.67	0.33	365	365	366
1014	Princess Rd N of Raby St	383823	395706	Manchester	11-May-01	0.67	0.00	1	1	1	0	1	0	1.00	0.33	365	365	366
1/105	St Helens Rd SW of Haynes St	369879	407169	Bolton	16-May-01	0.67	0.33	0	0	0	0	4	1	1.33	0.33	365	365	366
1/102	St Helens Rd NE of Smethurst Ln	369729	407022	Bolton	23-May-01	0.67	0.00	0	0	1	1	2	0	1.00	0.33	365	365	366
1079	Stockport Rd N of Cronshaw St	387670	393635	Manchester	01-Jun-01	1.00	0.67	3	2	1	1	1	0	1.67	1.00	365	365	366
1/064	Newbrook Rd SW of Crescent Ave	368978	405607	Bolton	12-Jun-01	0.67	0.00	1	0	0	0	3	1	1.33	0.33	365	365	366

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811	Chapel St S of Bexley Square	382900	398544	Salford	28-Jun-01	1.67	0.67	1	0	2	1	0	0	1.00	0.33	365	365	366
827	Gt Cheetham St East E of Duncombe St	383147	400696	Salford	06-Jul-01	1.33	1.33	0	0	0	0	0	0	0.00	0.00	365	365	366
158	Cheetham Hill Rd N of Huxley Ave	384455	400675	Manchester	20-Dec-01	2.33	0.33	0	0	0	0	0	0	0.00	0.00	365	365	366
1082	Stockport Rd S of Woodfold Ave	387371	394564	Manchester	11-Jan-02	0.67	0.33	2	1	0	0	0	0	0.67	0.33	365	365	366
211	Great Moor St N of Dawes St	371613	408914	Bolton	18-Jan-02	1.00	0.00	1	0	0	0	0	0	0.33	0.00	365	365	366
5/083	Market St W of Moss St	385394	410815	Rochdale	23-Jan-02	0.00	0.00	0	0	1	0	1	0	0.67	0.00	365	365	366
1109	Cheetham Hill Rd SE of Shirley Rd	384271	401114	Manchester	24-Jan-02	1.33	0.00	2	2	3	1	3	2	2.66	1.67	365	365	366
1111	Gt Ducie St S of Sherbourne St	383586	399524	Manchester	01-Feb-02	1.00	0.00	1	0	0	0	2	0	1.00	0.00	365	365	366
5/084	Dawson St W of Moss St	385421	410852	Rochdale	08-Feb-02	0.67	0.33	0	0	1	0	0	0	0.33	0.00	365	365	366
262	Howell Croft South N of Ashburner St	371573	409036	Bolton	14-Mar-02	0.33	0.33	0	0	0	0	1	0	0.33	0.00	365	366	365
424	Kingsway W of Pinnington Ln (Arndale)	379530	394449	Trafford	31-Jul-02	1.67	0.67	0	0	1	0	0	0	0.33	0.00	365	366	365
8/008	Stockport Rd N of Town Ln	392675	395054	Tameside	15-Aug-02	1.67	0.33	2	1	5	0	2	0	3.00	0.33	365	366	365
954	Stockport Rd SW of Parkway	386964	389107	Stockport	03-Sep-02	1.67	0.00	1	0	0	0	1	1	0.67	0.33	365	366	365
5/069	Rochdale Rd E of Dalton Ave	391985	413209	Rochdale	11-Dec-02	0.33	0.00	1	1	1	0	0	0	0.67	0.33	365	366	365
10/076	Market St W of Flapper Fold Ln	367393	403124	Wigan	21-Feb-03	1.00	0.33	0	0	0	0	0	0	0.00	0.00	365	366	365
5/013	Oldham Rd N of Queen Victoria St	390443	411667	Rochdale	04-Mar-03	0.00	0.00	2	1	0	0	2	0	1.33	0.33	366	365	365
4/076	Lees Rd E of Gibraltar St	394700	404571	Oldham	06-Mar-03	1.67	0.67	1	0	1	1	0	0	0.67	0.33	366	365	365
5/093	Oldham Rd S of Melbourne Rd	390579	410829	Rochdale	17-Mar-03	0.67	0.33	1	0	0	0	0	0	0.33	0.00	366	365	365
5/067	Entwistle Rd N of Gowers St	390640	413873	Rochdale	27-Mar-03	0.33	0.33	2	2	0	0	0	0	0.67	0.67	366	365	365
5/079	Oldham Rd N of Fletcher St	390354	412225	Rochdale	10-Apr-03	0.67	0.00	1	1	2	1	0	0	1.00	0.67	366	365	365
925	Buxton Rd N of Mile End Rd	390543	388278	Stockport	24-Apr-03	0.00	0.00	1	1	0	0	0	0	0.33	0.33	366	365	365
926	Buxton Rd S of Woodsmoor Ln	390739	388130	Stockport	24-Apr-03	2.67	1.00	0	0	2	0	0	0	0.67	0.00	366	365	365
927	Buxton Rd N of Cherry Tree Ln	391042	387971	Stockport	25-Apr-03	3.00	0.33	1	0	3	2	1	0	1.67	0.67	366	365	365
5/089	Oldham Rd N of Shaw Rd	390793	410412	Rochdale	08-May-03	0.67	0.67	1	0	1	1	0	0	0.67	0.33	366	365	365
1048	Cross St N Of St Annes St	383872	398375	Manchester	08-Jun-03	2.00	1.33	3	1	3	3	0	0	2.00	1.33	366	365	365
1/043	Market St E of Heywood St	375552	407310	Bolton	13-Jun-03	1.00	0.67	0	0	0	0	0	0	0.00	0.00	366	365	365
328	King St S of Hope St	393920	397936	Tameside	18-Jun-03	0.33	0.00	0	0	0	0	1	0	0.33	0.00	366	365	365
333	King St N of West St	393845	398234	Tameside	20-Jun-03	0.33	0.00	0	0	0	0	0	0	0.00	0.00	366	365	365

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256	Tonge Moor Rd N of Haroldene St	372834	410905	Bolton	03-Jul-03	0.00	0.00	0	0	1	0	2	1	1.00	0.33	366	365	365
1/057	Mossbank Way E of Berkeley Rd	371196	411682	Bolton	21-Jul-03	1.00	0.00	1	0	0	0	0	0	0.33	0.00	366	365	365
674	Chester Rd S of Sydney St	379834	394593	Trafford	22-Jan-04	0.33	0.00	1	1	0	0	0	0	0.38	0.38	366	365	220
8 29	Stamford Sq W of Montague Rd	394906	398898	Tameside	30-Jan-04	0.67	0.33	2	2	3	2	0	0	1.94	1.55	366	365	212
859	Bury New Rd S of Broom Lane	382689	401416	Salford	02-Mar-04	0.67	0.00	1	0	0	0	1	0	0.80	0.00	365	365	181
520	Bury New Rd N of St Paul's Rd	382164	402197	Salford	04-Mar-04	1.00	0.00	1	1	0	0	0	0	0.40	0.40	365	365	179
1073	Wilmslow Rd N of Walmer St	385149	395414	Manchester	15-Mar-04	2.66	0.67	1	0	4	0	1	0	2.44	0.00	365	365	168
1003	Wilmslow Rd S of Grandale St	385223	395256	Manchester	29-Mar-04	4.66	1.33	4	3	2	1	2	1	3.30	2.06	365	365	154
1025	Wilmslow Rd S of Claremont Rd	385292	395153	Manchester	07-Apr-04	2.00	0.67	1	0	1	0	1	0	1.25	0.00	365	365	145
177	Bury Old Rd NW of Seymour Rd,	383674	402042	Manchester	08-Apr-04	1.00	0.67	0	0	1	0	0	0	0.42	0.00	365	365	144
1101	Oldham Rd N of Naylor St	385454	399309	Manchester	21-Apr-04	1.33	0.33	1	1	3	1	2	2	2.54	1.70	365	365	131
824	Bury New Rd N of Devonshire St	382875	400890	Salford	06-May-04	0.67	0.00	0	0	0	0	0	0	0.00	0.00	365	365	116
1 3	Deane Rd E of Balshaw Close	370279	408415	Bolton	29-Jun-04	2.33	1.00	5	2	2	1	0	0	3.23	1.38	365	365	62
1226	Stockport Rd S of Plymouth Gr West	386170	396230	Manchester	02-Jul-04	0.33	0.00	1	0	1	0	0	0	0.93	0.00	365	365	59
6 15	Hankinson Way N of Mulberry Rd	381089	399149	Salford	22-Jul-04	0.33	0.00	0	0	0	0	0	0	0.00	0.00	365	365	39
6 54	Littleton Rd N of Northallerton Rd	381557	400823	Salford	06-Aug-04	1.67	0.33	0	0	1	1	0	0	0.48	0.48	365	365	24
3 61	Moston Ln of Pym St	386885	401933	Manchester	24-Sep-04	1.33	1.33	0	0	0	0			0.00	0.00	365	340	0
7 126	Heaton Moor Rd S of Kings Drive	387514	391211	Stockport	04-Oct-04	0.33	0.33	0	0	1	1			0.53	0.53	365	330	0
683	Broadway N of Thatch Leach	390064	404494	Oldham	14-Oct-04	1.00	0.33	0	0	1	0			0.53	0.00	365	320	0
160	Kingsway S of Fairmile Drive	385236	389705	Manchester	02-Nov-04	2.33	0.33	0	0	2	0			1.10	0.00	365	301	0
501	Broadway S of Eustace St	390632	406061	Oldham	12-Nov-04	1.00	0.33	2	1	1	0			1.67	0.56	365	291	0
685	Oldham Rd S of Robert St	390101	402037	Oldham	30-Nov-04	0.67	0.33	0	0	0	0			0.00	0.00	365	273	0
652	Market St S of Queen St	373890	406035	Bolton	09-Dec-04	1.00	0.33	1	0	0	0			0.58	0.00	365	264	0
3 47	St James Rd W of Malborough Rd	383511	400777	Manchester	16-Dec-04	1.00	0.67	0	0	0	0			0.00	0.00	365	257	0
7 33	Gt. Egerton St W of Car Park Exit	389378	390651	Stockport	16-Dec-04	0.33	0.33	0	0	1	1			0.59	0.59	365	257	0
742	Oldham Rd W of Norman St	390249	402201	Oldham	11-Jan-05	1.33	0.33	1	1	0	0			0.61	0.61	365	231	0
353	Stockport Rd NW of Clarke St	392541	397699	Tameside	21-Jan-05	0.00	0.00	0	0	0	0			0.00	0.00	365	221	0
7 34	Bird Hall Ln N of Shaftsbury Rd	387675	389044	Stockport	24-Jan-05	0.33	0.00	0	0	0	0			0.00	0.00	365	218	0
6 50	Langworthy Rd S of Amos St	380535	398873	Salford	10-Feb-05	0.67	0.33	0	0	0	0			0.00	0.00	365	201	0

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354	Stockport Rd NE of Birch St	392713	397872	Tameside	25-Feb-05	1.00	0.67	1	1	1	1			1.32	1.32	365	186	0
627	Broadway N of Gorse St	389812	403759	Oldham	08-Mar-05	0.67	0.67	0	0	0	0			0.00	0.00	365	175	0
626	Broadway NW of Mough Ln	389341	403218	Oldham	11-Mar-05	2.00	0.67	1	0	0	0			0.68	0.00	365	172	0
152	Barlow Moor Rd S of Cundiff Rd (ex 3/98)	382001	393066	Manchester	24-Mar-05	0.67	0.00	0	0	0	0			0.00	0.00	365	159	0
19	Barlow Moor Rd N of Malton Ave	381866	393507	Manchester	30-Mar-05	1.67	0.00	4	0	1	0			3.52	0.00	365	153	0
692	Oldham Rd N of Atlas St	393309	399996	Tameside	04-Apr-05	0.67	0.00	0	0	0	0			0.00	0.00	365	148	0
5 95	Manchester New Rd N of Moss Ln	386535	404472	Rochdale	07-Apr-05	0.33	0.33	1	0	0	0			0.72	0.00	365	145	0
1075	Wilbraham Rd E of Oswald Rd	381462	394018	Manchester	28-Apr-05	0.33	0.00	0	0	0	0			0.00	0.00	365	124	0
691	Oldham Rd S of Latchford St	393420	399650	Tameside	10-May-05	0.33	0.33	0	0	0	0			0.00	0.00	365	112	0
245	Bury Rd E of Belvoir St	373209	409400	Bolton	13-May-05	2.00	0.67	2	1	2	0			3.08	0.77	365	109	0
198	Barlow Moor Rd N of Napier Rd	381769	393849	Manchester	19-May-05	2.00	0.33	2	0	0	0			1.56	0.00	365	103	0
235	Bury Rd E of Blenheim Rd	373918	409420	Bolton	24-May-05	1.67	0.67	2	0	0	0			1.58	0.00	365	98	0
8 77	Taylor Ln S of Beech Ave	391823	395907	Tameside	03-Jun-05	1.00	0.33	0	0	0	0			0.00	0.00	365	88	0
8 97	Manchester Rd E of Balmoral Drive	390097	395664	Tameside	24-Jun-05	1.00	0.33	1	0	0	0			0.84	0.00	365	67	0
2 61	Wash Ln NW of Willow St	381762	410743	Bury	04-Jul-05	1.33	0.33	2	0	1	0			2.59	0.00	365	57	0
8 27	Hyde Rd W of Angel St	393097	395523	Tameside	14-Jul-05	1.00	0.00	1	1	0	0			0.89	0.89	365	47	0
1912	Stamford Square W of Mellor Rd (ex 8/48)	395162	398843	Tameside	10-Aug-05	0.33	0.33	3	0	0	0			2.84	0.00	365	20	0
721	Huddersfield Rd SW of Bentley St	394041	405542	Oldham	19-Aug-05	1.67	1.33	2	1	0	0			1.94	0.97	365	11	0
339	Market St NW of Nelson St	395017	394590	Tameside	25-Aug-05	0.67	0.67	1	0	0	0			0.99	0.00	365	5	0
7 88	Edgeley Rd NE of Alandale Rd	388083	389139	Stockport	02-Sep-05	0.33	0.00	0	0					0.00	0.00	362	0	0
7 119	Woodford Rd S of Meadway	389109	384359	Stockport	16-Oct-05	1.00	0.00	0	0					0.00	0.00	318	0	0
1204	Hyde Rd W of Debdale Ln	389637	395689	Manchester	19-Oct-05	0.67	0.33	1	0					1.16	0.00	315	0	0
2 32	Rochdale Rd E of York St	381121	410756	Bury	20-Nov-05	0.33	0.00	0	0					0.00	0.00	283	0	0
5 57	Milnrow Rd N of Vavasour St	390740	413000	Rochdale	02-Dec-05	1.00	0.00	2	2					2.69	2.69	271	0	0
941	Bramhall Ln N of Winifred Rd	389940	388545	Stockport	09-Dec-05	0.00	0.00	1	0					1.38	0.00	264	0	0
7 129	St. Mary's Way E of Shawcross St	390170	389701	Stockport	20-Dec-05	0.33	0.00	0	0					0.00	0.00	253	0	0
3 83	Mount Rd N of East Rd	388070	395590	Manchester	30-Jan-06	1.33	1.00	0	0					0.00	0.00	212	0	0
7 104	Marple Rd SE of The Fairway	391822	389138	Stockport	24-Mar-06	1.00	0.33	0	0					0.00	0.00	159	0	0
900	Offerton Ln NW of Salcombe Rd	391184	389587	Stockport	29-Mar-06	1.00	0.00	2	0					4.74	0.00	154	0	0

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5 39	Halifax Rd E of Holland St	391888	415586	Rochdale	02-Apr-06	1.00	0.67	0	0					0.00	0.00	150	0	0
236	Tonge Moor Rd/Thicketford Rd	372796	410561	Bolton	03-Apr-06	1.33	1.00	0	0					0.00	0.00	149	0	0
975	Hall Street SE of Forbes Rd	390772	389873	Stockport	07-Apr-06	2.00	1.00	0	0					0.00	0.00	145	0	0
5 41	Yorkshire St E of Regent St	390217	413913	Rochdale	09-Apr-06	2.00	0.67	0	0					0.00	0.00	143	0	0
7 107	Gorton Rd N of Burnfield Rd	389591	395312	Stockport	25-Apr-06	0.67	0.00	1	0					2.87	0.00	127	0	0
7 78	Reddish Rd S of Brunton St	389728	392879	Stockport	28-Apr-06	1.00	0.00	0	0					0.00	0.00	124	0	0
974	Hall Street SE of Webb Ln	390419	390089	Stockport	26-May-06	0.33	0.00	0	0					0.00	0.00	96	0	0
5 28	Halifax Rd W of Oakcliffe Rd	391557	415421	Rochdale	14-Jun-06	1.33	0.00	0	0					0.00	0.00	77	0	0
5 54	New Rd E of Arm Rd	392424	415868	Rochdale	15-Jun-06	0.33	0.00	0	0					0.00	0.00	76	0	0
4 52	Huddersfield Rd W of Heywood St	395008	405876	Oldham	15-Jun-06	0.00	0.00	0	0					0.00	0.00	76	0	0
239	Tonge Moor Rd NE of Union Rd	372793	410309	Bolton	25-Jun-06	1.33	0.00	0	0					0.00	0.00	66	0	0
1 32	Chorley Old Rd NW of Beatrice Rd	370370	409968	Bolton	28-Jun-06	1.00	0.00	0	0					0.00	0.00	63	0	0
9 8	School Rd W of Broad Rd	378902	392028	Trafford	12-Jul-06	0.67	0.33	0	0					0.00	0.00	49	0	0
1100	Oldham Rd E of Erwin St	387549	400606	Manchester	02-Aug-06	2.00	1.00	0	0					0.00	0.00	28	0	0
504	Chester Rd S of Taylors Rd	380285	395351	Trafford	04-Aug-06	1.33	0.67	0	0					0.00	0.00	26	0	0
200	Chorley New Rd W of Beverley Rd	370086	409410	Bolton	16-Aug-06	2.00	0.00	0	0					0.00	0.00	14	0	0
5 81	Whitworth Rd N of Gale St	389433	415041	Rochdale	23-Aug-06	0.67	0.00	0	0					0.00	0.00	7	0	0
768	Union Street W of Oldham 6th Form College	392246	404733	Oldham	04-Sep-06	0.67	0.00											
324	Washway Rd N of The Avenue	377630	390878	Trafford	08-Sep-06	0.67	0.67											
997	Gorton Rd S of Luton Rd	389494	393546	Stockport	10-Sep-06	0.67	0.33											
8 94	Oldham Rd W of Taunton Rd	393203	400322	Tameside	13-Sep-06	0.67	0.33											
<b>Total</b>						<b>143.88</b>	<b>44.30</b>	<b>118</b>	<b>41</b>	<b>82</b>	<b>25</b>	<b>62</b>	<b>18</b>	<b>117.08</b>	<b>34.87</b>			
	Not Complete Years Data																	
	No Data																	

List of New Puffin Sites with Associated Accident Data Sorted by Installation Date																		
Site No.	Road Names	Easting	Northing	Authority	Installation Date	Before (Rate/Year)		After 1st Year		After 2nd Year		After 3rd Year		After (Rate/Year)		No. of Days in		
						All	Ped	All	Ped	All	Ped	All	Ped	All	Ped	1st Yr	2nd Yr	3rd Yr
7/134	Edgeley Rd W of Bordon Rd	387744	389172	Stockport	16-May-97	2.00	0.33	0	0	1	0	2	0	1.00	0.00	365	365	366
7/133	Edgeley Rd W of Huntley Rd	387434	389273	Stockport	25-Jun-97	0.33	0.33	0	0	0	0	0	0	0.00	0.00	365	365	366
7/135	Broadway E of Kingsway	385209	387883	Stockport	17-Sep-97	0.33	0.33	0	0	0	0	0	0	0.00	0.00	365	365	366
851	Eccles Old Rd W of Manor Rd	379727	399577	Salford	12-Jan-99	1.00	0.00	0	0	0	0	0	0	0.00	0.00	365	366	365
840	Eccles Old Rd E of Park Rd	378405	399187	Salford	28-Feb-99	3.33	0.33	0	0	0	0	5	2	1.67	0.67	366	365	365
1009	Stretford Rd E of St Philips Primary School	383928	396883	Manchester	17-Jan-00	0.67	0.67	0	0	0	0	0	0	0.00	0.00	366	365	365
794	Regent St W of St Mary's Rd	377967	398563	Salford	13-Mar-00	1.00	0.33	1	0	0	0	0	0	0.33	0.00	365	365	365
2/074	Rochdale Old Rd W of Second Ave	382688	411562	Bury	14-Mar-00	0.33	0.33	1	1	0	0	0	0	0.33	0.33	365	365	365
943	Wellington Rd North S of Weybrook Rd	387938	393023	Stockport	04-Apr-00	0.00	0.00	1	0	1	0	0	0	0.67	0.00	365	365	365
1/108	Lee Ln E of Jones St	363753	411764	Bolton	20-Apr-00	0.00	0.00	0	0	0	0	2	0	0.67	0.00	365	365	365
977	Wood St E of Hardman St	388885	390035	Stockport	18-Jul-00	0.33	0.00	0	0	0	0	0	0	0.00	0.00	365	365	365
358	Oldham Rd N of Stamford St	393637	398846	Tameside	08-Aug-00	1.00	0.67	1	1	2	0	1	0	1.33	0.33	365	365	365
946	Wellington Rd NW of Laurel St	389029	390583	Stockport	15-Aug-00	2.00	0.67	0	0	0	0	1	0	0.33	0.00	365	365	365
5/120	Hollins Ln N of Langley Ln	386532	407585	Rochdale	04-Sep-00	2.00	1.33	0	0	0	0	1	0	0.33	0.00	365	365	365
10/197	Wigan Ln E of Royal Albert Hospital	358468	406942	Wigan	11-Oct-00	0.67	0.00	0	0	0	0	0	0	0.00	0.00	365	365	365
6/077	Bentcliffe Way S of Morrisons	377864	398423	Salford	15-Nov-00	0.00	0.00	0	0	0	0	0	0	0.00	0.00	365	365	365
1030	Victoria St W of Fennel St	383848	398807	Manchester	22-Nov-00	2.66	0.67	2	0	1	0	1	0	1.33	0.00	365	365	365
357	Ashton Rd S of Mayfield St	392292	396306	Tameside	11-Dec-00	0.33	0.33	0	0	0	0	0	0	0.00	0.00	365	365	365
3/134	Hollinwood Ave W of Oowler Ln	388878	402992	Manchester	12-Dec-00	2.00	0.67	2	1	2	2	1	0	1.67	1.00	365	365	365
5/121	Factory St E of Burton St	386819	405877	Rochdale	14-Dec-00	0.00	0.00	0	0	0	0	0	0	0.00	0.00	365	365	365
7/152	Bramhall Moor Rd N of Grenville Rd	391457	387350	Stockport	20-Dec-00	0.33	0.00	0	0	2	1	1	0	1.00	0.33	365	365	365
10/196	Chapel St W of Astley St	366849	399666	Wigan	20-Dec-00	0.33	0.00	1	0	1	0	0	0	0.67	0.00	365	365	365
10/186	Warrington Rd N of Park View	357739	398618	Wigan	12-Jan-01	1.00	0.00	0	0	0	0	1	1	0.33	0.33	365	365	365
7/151	Gorton Rd S of Westbourne Grove	389526	393707	Stockport	17-Jan-01	1.00	0.67	2	0	0	0	0	0	0.67	0.00	365	365	365
9/054	Stockport Rd E of Wellington Rd	378048	388371	Trafford	16-Feb-01	0.33	0.00	0	0	1	0	0	0	0.33	0.00	365	365	365
1/100	Derby St SW of Vickers St	371004	408237	Bolton	23-Mar-01	0.67	0.00	1	0	1	0	1	0	1.00	0.00	365	365	366
8/082	Ashton Rd S of Tame St	392416	395903	Tameside	26-Mar-01	1.33	0.33	0	0	3	1	0	0	1.00	0.33	365	365	366
397	Cavendish St S of Newman St	393435	399118	Tameside	28-Mar-01	1.67	0.33	0	0	0	0	1	0	0.33	0.00	365	365	366
1/101	Derby St SW of Goldsmith St	370675	407872	Bolton	29-Mar-01	2.00	0.00	0	0	1	1	1	0	0.67	0.33	365	365	366

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						All	Ped	All	Ped	All	Ped	All	Ped	All	Ped	1st Yr	2nd Yr	3rd Yr
5/124	Oldham Rd N of Elbow Ln	390042	413011	Rochdale	19-Apr-01	0.00	0.00	0	0	0	0	0	0	0.00	0.00	365	365	366
8/104	Huddersfield Rd E of Richmond St	397088	398742	Tameside	23-Apr-01	0.33	0.33	0	0	0	0	0	0	0.00	0.00	365	365	366
3/137	Portway W of Robinswood Rd	382580	386405	Manchester	03-May-01	0.67	0.33	0	0	1	1	1	0	0.67	0.33	365	365	366
3/138	Great Western St W of Ossory St	384744	395517	Manchester	24-May-01	1.33	0.33	2	0	0	0	3	1	1.67	0.33	365	365	366
10/198	Orrell Rd W of Bradshaw St	354411	404737	Wigan	13-Jul-01	1.33	0.33	0	0	0	0	1	0	0.33	0.00	365	365	366
7/153	Gillbent Rd S of Newlands Ave	387303	385156	Stockport	31-Jul-01	0.00	0.00	0	0	0	0	0	0	0.00	0.00	365	365	366
519	Bury New Rd (South of Victoria Ln)	380791	405404	Bury	30-Aug-01	3.00	1.00	1	0	1	0	4	3	2.00	1.00	365	365	366
2/101	Ainsworth Rd N of Cemetery Rd	377856	407993	Bury	30-Aug-01	1.33	0.67	1	1	0	0	0	0	0.33	0.33	365	365	366
1/113	Mansell Way N of Tesco Roundabout	364747	409982	Bolton	01-Oct-01	0.00	0.00	0	0	0	0	0	0	0.00	0.00	365	365	366
184	Cheetham Hill Rd S of Smedley Ln	384463	400868	Manchester	15-Oct-01	4.66	1.67	5	3	1	1	6	1	4.00	1.67	365	365	366
7/154	Sandy Ln N of Bankfield St	389491	391516	Stockport	02-Nov-01	0.67	0.00	0	0	3	1	0	0	1.00	0.33	365	365	366
5/101	York St E of Hartley St	385786	410784	Rochdale	20-Nov-01	0.33	0.00	2	0	1	0	0	0	1.00	0.00	365	365	366
10/202	Broad O'th Ln near Church Ln	354199	408659	Wigan	20-Nov-01	0.33	0.33	0	0	0	0	0	0	0.00	0.00	365	365	366
5/088	Bury St W of Albert St	384579	410749	Rochdale	30-Nov-01	1.00	0.33	0	0	1	0	2	0	1.00	0.00	365	365	366
185	Stretford Rd E of Dearden St	383362	396702	Manchester	04-Dec-01	0.33	0.00	0	0	0	0	1	0	0.33	0.00	365	365	366
5/071	Bury New Rd W of Higher Lomax Ln	384128	410796	Rochdale	18-Dec-01	1.67	0.33	2	0	1	1	1	0	1.33	0.33	365	365	366
547	Pilkington Way S of Sion St	378420	406868	Bury	21-Jan-02	0.33	0.33	0	0	0	0	3	0	1.00	0.00	365	365	366
1056	Ashton New Rd W of Alan Turning Way	386869	398346	Manchester	13-Mar-02	0.00	0.00	0	0	1	0	0	0	0.33	0.00	365	366	365
1/114	Market St E of Bridge St	375543	405536	Bolton	27-Mar-02	0.33	0.00	3	2	1	1	0	0	1.33	1.00	365	366	365
394	Manchester Rd E of Bowden St	392420	395495	Tameside	05-Apr-02	2.00	1.33	3	3	5	3	1	0	3.00	2.00	365	366	365
7/157	Adswold Rd E of Siddington Ave	388922	388463	Stockport	19-Apr-02	0.33	0.33	3	0	1	1	0	0	1.33	0.33	365	366	365
1055	Ashton New Rd E of Rowsley St	386723	398351	Manchester	24-Apr-02	0.00	0.00	0	0	0	0	0	0	0.00	0.00	365	366	365
7/164	Macclesfield Rd S of Haddon Rd	392572	385991	Stockport	31-May-02	0.33	0.00	0	0	0	0	0	0	0.00	0.00	365	366	365
10/204	Manchester Rd NE of Ennerdale Rd	367239	399884	Wigan	11-Jun-02	0.67	0.33	1	0	0	0	1	0	0.67	0.00	365	366	365
10/205	Manchester Rd E of Hall House Ln	367629	399848	Wigan	11-Jun-02	0.00	0.00	0	0	0	0	0	0	0.00	0.00	365	366	365
3/141	Wilbraham Rd W of St Werburghs Rd	382325	394038	Manchester	01-Jul-02	3.66	0.33	1	0	3	0	2	0	2.00	0.00	365	366	365
176	Wilbraham Rd E of Spring Bridge Rd	383651	394072	Manchester	03-Sep-02	0.00	0.00	0	0	0	0	0	0	0.00	0.00	365	366	365
5/129	Newhey Rd S of Charles Ln	393005	412349	Rochdale	09-Sep-02	0.33	0.00	0	0	1	1	0	0	0.33	0.33	365	366	365

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						All	Ped	All	Ped	All	Ped	All	Ped	All	Ped	1st Yr	2nd Yr	3rd Yr
10/210	Wigan Lower Rd N of Woodhouse Dr	355994	407265	Wigan	09-Sep-02	0.33	0.33	0	0	1	1	0	0	0.33	0.33	365	366	365
2/100	Manchester Rd S of Wellington Rd	380255	409834	Bury	20-Sep-02	0.67	0.00	3	0	1	1	0	0	1.33	0.33	365	366	365
10/201	Manchester Rd SE of Pickup St	360087	405313	Wigan	23-Oct-02	1.67	0.67	2	0	1	1	1	1	1.33	0.67	365	366	365
994	Greek St S of Blackshaw St	389446	389725	Stockport	25-Oct-02	1.67	1.00	2	0	2	0	0	0	1.33	0.00	365	366	365
10/209	Billinge Rd W of St Matthews Cl	355432	403827	Wigan	16-Dec-02	0.67	0.33	0	0	0	0	0	0	0.00	0.00	365	366	365
10/215	Mealhouse Ln W of Smith St	367283	403186	Wigan	24-Dec-02	0.00	0.00	0	0	0	0	1	0	0.33	0.00	365	366	365
10/216	Mealhouse Ln W of Bag Ln	367154	403170	Wigan	24-Dec-02	1.00	0.67	0	0	0	0	0	0	0.00	0.00	365	366	365
3/148	Moston Ln W of Dalbeattie St	386130	401899	Manchester	16-Jan-03	0.00	0.00	1	0	0	0	0	0	0.33	0.00	365	366	365
10/203	Schofield Ln W of Catherine St	359091	405656	Wigan	16-Jan-03	0.33	0.00	1	0	2	1	1	1	1.33	0.67	365	366	365
9/055	Barton Dock Rd N of Traders Ave	377115	396796	Trafford	18-Jan-03	2.33	0.33	1	0	0	0	0	0	0.33	0.00	365	366	365
3/143	Ogden Ln E of Lees St	388974	397181	Manchester	11-Mar-03	4.00	0.00	1	0	5	0	2	0	2.66	0.00	366	365	365
7/163	Broadstone Rd N of Broadstone Hall Rd S	388862	392743	Stockport	19-Mar-03	1.00	0.33	0	0	1	0	0	0	0.33	0.00	366	365	365
10/213	Wesleigh Ln S of Sovereign Fold Rd	365042	402028	Wigan	26-Mar-03	0.00	0.00	0	0	1	0	0	0	0.33	0.00	366	365	365
10/214	Wesleigh Ln N of Isherwood St	365229	401590	Wigan	26-Mar-03	1.00	1.00	1	0	0	0	0	0	0.33	0.00	366	365	365
7/158	Millgate S of Corporation St	389832	390540	Stockport	27-Mar-03	0.00	0.00	0	0	1	1	1	0	0.67	0.33	366	365	365
7/162	Councillor Ln W of Evesham Rd	387542	387946	Stockport	08-Apr-03	0.00	0.00	0	0	0	0	0	0	0.00	0.00	366	365	365
8/110	Mottram Old Rd E of Spring Ave	396038	393816	Tameside	15-Apr-03	0.00	0.00	0	0	0	0	0	0	0.00	0.00	366	365	365
9/058	Springfield Rd S of School Rd	378757	391958	Trafford	22-Apr-03	0.33	0.00	0	0	0	0	0	0	0.00	0.00	366	365	365
2/075	Bolton Rd W of Canute St	377411	407405	Bury	06-May-03	0.33	0.33	1	1	2	0	1	0	1.33	0.33	366	365	365
5/131	Entwistle Rd W of Hovingham St	390532	413683	Rochdale	13-May-03	0.67	0.33	0	0	0	0	0	0	0.00	0.00	366	365	365
9	Birchfields Rd S of Thoresway Rd	386131	395101	Manchester	16-May-03	0.33	0.00	2	0	1	0	0	0	1.00	0.00	366	365	365
3/147	Ashton Old Rd E Burman St	389832	397343	Manchester	11-Jun-03	1.33	1.33	0	0	1	0	0	0	0.33	0.00	366	365	365
5/130	Manchester Rd E of Chapel St	385263	405279	Rochdale	11-Jun-03	0.67	0.00	0	0	0	0	1	1	0.33	0.33	366	365	365
439	Edge Ln W of Norwood Rd	380205	394276	Trafford	11-Jun-03	0.33	0.33	0	0	0	0	0	0	0.00	0.00	366	365	365
591	Wellington Rd South S of Ratcliffe St	389581	389723	Stockport	16-Jun-03	0.33	0.00	2	2	0	0	3	1	1.67	1.00	366	365	365
592	Wellington Rd South N of Brentnall St	389666	389510	Stockport	16-Jun-03	0.67	0.00	0	0	1	0	0	0	0.33	0.00	366	365	365
4/088	Ripponden Rd W of Herbert St	394459	406249	Oldham	18-Jun-03	1.00	0.67	1	0	2	1	0	0	1.00	0.33	366	365	365
10/212	Robin Park Rd E of Loire Drive	356885	405240	Wigan	19-Jun-03	0.00	0.00	0	0	2	2	1	0	1.00	0.67	366	365	365

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						All	Ped	All	Ped	All	Ped	All	Ped	All	Ped	1st Yr	2nd Yr	3rd Yr
596	Wellington Rd Sth N Of Daisy St	389837	389213	Stockport	16-Jul-03	0.67	0.00	0	0	0	0	0	0	0.00	0.00	366	365	365
3/145	Hall Ln N of Royal Oak Rd	381629	389156	Manchester	18-Jul-03	1.33	0.00	1	0	2	0	2	0	1.67	0.00	366	365	365
1098	Princess Rd N of Cavendish Rd	383570	392885	Manchester	01-Sep-03	0.67	0.33	0	0	0	0	0	0	0.00	0.00	366	365	363
7/168	Buxton Rd W of Russell Avenue	395183	385290	Stockport	19-Sep-03	0.33	0.33	2	1	0	0	0	0	0.68	0.34	366	365	345
5 133	Oldham Rd S of Gordon St	390374	412074	Rochdale	09-Mar-04	0.33	0.00	0	0	0	0	0	0	0.00	0.00	365	365	174
1 117	Chorley Old Rd SE of Marsh Fold Ln	370471	409881	Bolton	11-Mar-04	2.33	0.67	3	1	0	0	1	1	1.62	0.81	365	365	172
8 105	Oxford Rd E of Lodge Ln	394885	397768	Tameside	28-Apr-04	0.67	0.00	0	0	0	0	0	0	0.00	0.00	365	365	124
8 114	Oldham Rd N of Wellington Clough	393098	400760	Tameside	21-May-04	0.67	0.33	1	0	0	0	0	0	0.44	0.00	365	365	101
3 06	Briscoe Ln W of Mitchell St	388028	400212	Manchester	02-Jun-04	0.67	0.33	0	0	0	0	0	0	0.00	0.00	365	365	89
6 82	High St W of Bolton Rd	373544	403117	Salford	22-Jul-04	0.00	0.00	0	0	2	2	1	1	1.42	1.42	365	365	39
7 03	Garners Ln W of Rostherne Rd	389067	388107	Stockport	01-Sep-04	0.33	0.00	0	0	1	0			0.50	0.00	365	363	0
5 9	Manchester Rd N of Magdala St	386184	409748	Rochdale	16-Sep-04	1.33	0.33	0	0	2	0			1.02	0.00	365	348	0
3 7	Moston Ln E of Clough Rd	386566	401891	Manchester	01-Oct-04	2.00	0.67	1	0	0	0			0.52	0.00	365	333	0
3 12	Moston Ln E of Hough Hall Rd	386733	401913	Manchester	01-Oct-04	0.33	0.00	0	0	0	0			0.00	0.00	365	333	0
3 10	Moston Ln W of Gill St	386654	401922	Manchester	14-Oct-04	1.33	0.67	0	0	1	1			0.53	0.53	365	320	0
5 11	Manchester Rd N of Isherwood St	386175	410105	Rochdale	18-Oct-04	0.33	0.00	0	0	1	0			0.54	0.00	365	316	0
5 7	Rochdale Rd W of West St	391855	413255	Rochdale	08-Nov-04	1.00	0.67	1	1	0	0			0.55	0.55	365	295	0
5 12	Drake St W of Broadfield Stile	389463	412833	Rochdale	08-Nov-04	0.67	0.00	0	0	0	0			0.00	0.00	365	295	0
97	Piccadilly N of Paton St	384586	398163	Manchester	12-Nov-04	1.00	0.67	1	1	0	0			0.56	0.56	365	291	0
3 16	Queens Rd E of Bunyard St	384971	400586	Manchester	26-Nov-04	1.00	0.33	0	0	1	0			0.57	0.00	365	277	0
3 17	Queens Rd W of Appleford Drive	384661	400480	Manchester	26-Nov-04	1.00	0.33	1	0	0	0			0.57	0.00	365	277	0
3 19	Delaunays Rd E of Parkhill Ave	384714	402498	Manchester	29-Nov-04	0.67	0.00	3	2	0	0			1.71	1.14	365	274	0
1400	Wilmslow Rd N of Marriot St	384904	392834	Manchester	02-Dec-04	0.67	0.67	1	0	1	0			1.15	0.00	365	271	0
10 10	Whelley Rd N of Plantation Gates	359468	406706	Wigan	21-Dec-04	0.67	0.00	0	0	0	0			0.00	0.00	365	252	0
10 7	Moorside S of Oakfield Crescent	361372	408251	Wigan	21-Jan-05	0.00	0.00	0	0	0	0			0.00	0.00	365	221	0
2 1	Heywood St S of Shepherd St	381027	410327	Bury	11-Feb-05	1.33	0.33	1	0	0	0			0.65	0.00	365	200	0
1 21	Belmont Rd SE of High View St	371052	412444	Bolton	17-Feb-05	0.00	0.00	0	0	1	1			0.65	0.65	365	194	0
3 116	North Rd W of Clayton St	387969	398637	Manchester	24-Feb-05	2.00	0.67	0	0	0	0			0.00	0.00	365	187	0
1 15	Church St S of Glebe St	365405	406320	Bolton	29-Mar-05	1.33	0.00	0	0	0	0			0.00	0.00	365	154	0

**List of New Puffin Sites with Associated Accident Data Sorted by Installation Date**

Site No.	Road Names	Easting	Northing	Authority	Installation Date	Before (Rate/Year)		After 1st Year		After 2nd Year		After 3rd Year		After (Rate/Year)		No. of Days in		
						All	Ped	All	Ped	All	Ped	All	Ped	All	Ped	1st Yr	2nd Yr	3rd Yr
190	Barlow Moor Rd S of Beech Rd	381910	393336	Manchester	05-Apr-05	1.00	0.00	1	0	1	1			1.43	0.71	365	147	0
7 15	Styal Rd S of Church Rd	384062	388181	Stockport	06-Apr-05	0.67	0.33	1	0	0	0			0.71	0.00	365	146	0
3 55	Nell Ln E of Arley Ave	383871	392149	Manchester	27-Apr-05	0.00	0.00	0	0	1	0			0.74	0.00	365	125	0
3 56	Burton Rd S of Nell Ln	383869	392090	Manchester	27-Apr-05	0.00	0.00	0	0	0	0			0.00	0.00	365	125	0
1077	Barlow Moor Rd N of Nicholas Rd	381606	394173	Manchester	28-Apr-05	1.00	0.00	0	0	0	0			0.00	0.00	365	124	0
216	College Way east of Whowell St	371102	408569	Bolton	12-May-05	0.33	0.00	0	0	0	0			0.00	0.00	365	110	0
8 4	Stockport Rd E of Cemetery Rd	392628	394350	Tameside	01-Jun-05	1.00	0.00	0	0	0	0			0.00	0.00	365	90	0
9 17	Hale Rd W of Broomfield Ln	377429	387086	Trafford	17-Jun-05	1.00	0.00	0	0	0	0			0.00	0.00	365	74	0
7 9	Stockport Rd E of Swythamley Rd	387438	389496	Stockport	21-Jun-05	0.67	0.00	0	0	0	0			0.00	0.00	365	70	0
893	Buxton Rd E of Bonis Crescent	391350	387766	Stockport	22-Jun-05	0.67	0.33	1	0	0	0			0.84	0.00	365	69	0
10 10	Wigan Rd S of Norbury St	359468	406706	Wigan	23-Jun-05	0.33	0.00	0	0	0	0			0.00	0.00	365	68	0
3 149	Slack Rd N of Brakenlea Drive	385575	402700	Manchester	08-Jul-05	0.00	0.00	0	0	0	0			0.00	0.00	365	53	0
3 40	Northmoor Rd N of Elgar St	387265	395518	Manchester	12-Jul-05	1.33	0.33	0	0	0	0			0.00	0.00	365	49	0
4 21	Hollins Rd W of Mill Gate	391647	402887	Oldham	21-Jul-05	0.33	0.00	1	0	0	0			0.90	0.00	365	40	0
5 25	Manchester Old Rd E of Cheetham St	386500	405656	Rochdale	17-Aug-05	0.33	0.00	0	0	0	0			0.00	0.00	365	13	0
3 78	Moss Ln East W of Playfair St	384675	395698	Manchester	13-Sep-05	1.00	0.33	0	0					0.00	0.00	351	0	0
8 3	Park Parade S of Grafton St	394533	398988	Tameside	15-Sep-05	0.00	0.00	0	0					0.00	0.00	349	0	0
3 62	Viaduct St S of Alderman Square	386128	397913	Manchester	21-Sep-05	0.00	0.00	0	0					0.00	0.00	343	0	0
3 81	Corporation St at Exchange Sq	383978	398632	Manchester	14-Oct-05	0.67	0.67	0	0					0.00	0.00	320	0	0
1401	Hyde Rd E of Highfield Range	389777	395679	Manchester	19-Oct-05	1.00	0.00	2	0					2.32	0.00	315	0	0
10 12	St. John St N of Market St	367576	403112	Wigan	31-Oct-05	0.33	0.33	0	0					0.00	0.00	303	0	0
9 30	Flixton Rd E of Park Rd South	376517	394688	Trafford	21-Nov-05	0.33	0.33	0	0					0.00	0.00	282	0	0
6 78	Fairhills Rd E of Woodrow Way	372008	393787	Salford	22-Nov-05	0.00	0.00	0	0					0.00	0.00	283	0	0
715	Station Rd NW of Boundary Rd	377700	402076	Salford	13-Dec-05	0.67	0.33	1	0					1.40	0.00	260	0	0
1403	Kingsway N of Briarfield Rd	386196	392540	Manchester	18-Jan-06	0.67	0.00	1	0					1.63	0.00	224	0	0
991	Stockport Rd W of Union Rd	395672	388692	Stockport	02-May-06	0.00	0.00	0	0					0.00	0.00	120	0	0
260	Tonge Moor Rd NE of Union Rd	372661	410116	Bolton	25-Jun-06	1.33	0.33	0	0					0.00	0.00	66	0	0
<b>Total</b>						<b>113.58</b>	<b>34.97</b>	<b>78</b>	<b>21</b>	<b>75</b>	<b>28</b>	<b>61</b>	<b>14</b>	<b>82.62</b>	<b>23.38</b>			
	Not Complete Years Data																	
	No Data																	

**List of Signalised Junctions with Modified Nearside Indicators with Associated Accident Data Sorted by Modification Date**

Site No.	Road Names	Easting	Northing	Authority	Modification Date	Before (Rate/Year)		After 1st Year		After 2nd Year		After 3rd Year		After (Rate/Year)		No. of Days in		
						All	Ped	All	Ped	All	Ped	All	Ped	All	Ped	1st Yr	2nd Yr	3rd Yr
105	Newton St/ Piccadilly/ Portland St	384540	398250	Manchester	23-Jul-00	4.00	1.67	1	1	4	3	2	0	2.3	1.3	365	365	365
106	Aytoun St/Parker St/ Portland St	384431	398182	Manchester	07-Oct-00	3.33	2.33	2	1	3	0	0	0	1.7	0.3	365	365	365
3	Albert Square/John Dalton St	383826	398186	Manchester	29-Oct-00	1.00	0.33	2	2	3	1	1	0	2.0	1.0	365	365	365
119	Princess St/Whitworth St	384302	397682	Manchester	05-Nov-00	4.00	1.67	5	2	8	4	8	2	7.0	2.7	365	365	365
484	Cavendish St/Old St	393546	398867	Tameside	21-Feb-01	2.00	0.33	0	0	1	0	0	0	0.3	0.0	365	365	365
87	Charles St/Hulme St/Oxford Rd	384176	397418	Manchester	17-Jun-01	9.66	4.66	5	5	3	1	2	1	3.3	2.3	365	365	366
1169	Ashton Old Rd/Victoria St	388414	397400	Manchester	24-Jul-02	2.00	0.33	1	0	1	0	1	1	1.0	0.3	365	366	365
903	Wellington Rd South/Heaton Ln	389216	390392	Stockport	17-Nov-02	7.33	4.33	4	1	3	1	3	0	3.3	0.7	365	366	365
234	Trinity St/Black Horse St	371579	408696	Bolton	20-Mar-03	2.33	0.33	1	1	2	0	2	0	1.7	0.3	366	365	365
215	Trinity St/Derby St	371357	408648	Bolton	22-Mar-03	3.67	1.00	2	0	2	0	9	0	4.3	0.0	366	365	365
240	Trinity St/Thynne St	371788	408689	Bolton	23-Mar-03	6.00	1.00	3	1	1	0	2	1	2.0	0.7	366	365	365
906	Wellington Rd South/Longshut Ln	389723	389388	Stockport	06-Apr-03	4.33	0.00	4	0	1	0	2	1	2.3	0.3	366	365	365
7 165	Adswood Rd/Garners Ln (ex 7/141)	388823	387966	Stockport	12-May-03	1.33	0.67	0	0	2	0	0	0	0.7	0.0	366	365	365
116	Charles St/Princess St	384356	397519	Manchester	20-May-03	4.33	0.67	2	1	2	2	0	0	1.3	1.0	366	365	365
1201	Hunt's Bank/Victoria St	383857	398937	Manchester	10-Jun-03	0.67	0.33	1	0	0	0	0	0	0.3	0.0	366	365	365
1067	Didsbury Rd/Wilmslow Rd/The Towers Business	384999	390412	Manchester	15-Jun-03	0.67	0.00	0	0	0	0	3	0	1.0	0.0	366	365	365
8 113	Oldham Rd/Newmarket Rd (ex 524)	393234	400223	Tameside	27-Jun-03	1.67	0.33	2	1	1	0	2	0	1.7	0.3	366	365	365
49	Devonshire St/Devonshire St North/ Hyde Rd	385777	396921	Manchester	29-Jun-03	4.67	0.33	4	1	7	0	3	0	4.7	0.3	366	365	365
917	King St West/Daw Bank	389032	390064	Stockport	06-Jul-03	0.67	0.00	0	0	2	0	2	0	1.3	0.0	366	365	365
1 13	Manchester Rd/Bolton Rd	366319	406573	Bolton	09-Jul-03	3.33	1.00	1	0	2	1	1	0	1.3	0.3	366	365	365
915	Buxton Rd/Nangreave Rd	390135	388807	Stockport	20-Jul-03	3.33	1.67	1	1	0	0	1	0	0.7	0.3	366	365	365
172	Brook St/Cloak St	384433	397359	Manchester	22-Aug-03	0.67	0.33	0	0	1	0	2	0	1.0	0.0	366	365	365
312	Wilmslow Rd/High St	385627	388561	Stockport	24-Aug-03	1.00	0.33	3	1	2	1	0	0	1.7	0.7	366	365	365
809	Chapel St/Blackfriars Rd	383539	398712	Salford	31-Aug-03	2.33	0.00	4	0	2	0	1	0	2.3	0.0	366	365	364
150	Chorlton St/Whitworth St	384535	397798	Manchester	07-Sep-03	0.67	0.00	2	0	0	0	0	0	0.7	0.0	366	365	357
206	Folds Rd/Bow St	371882	409509	Bolton	14-Sep-03	2.00	0.00	0	0	2	0	1	0	1.0	0.0	366	365	350

**List of Signalised Junctions with Modified Nearside Indicators with Associated Accident Data Sorted by Modification Date**

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						All	Ped	All	Ped	All	Ped	All	Ped	All	Ped	1st Yr	2nd Yr	3rd Yr
7 8	Buxton Rd/Windlehurst Rd	394915	385415	Stockport	14-Sep-03	1.00	0.00	0	0	1	0	2	0	1.0	0.0	366	365	350
825	Bury New Rd/Northumberland St	382753	401251	Salford	20-Sep-03	1.00	0.00	1	0	1	0	2	1	1.4	0.3	366	365	344
907	Wellington Rd South/Bramhall Ln	389935	389087	Stockport	19-Oct-03	4.33	0.67	0	0	3	0	2	0	1.7	0.0	366	365	315
609	Park Rd/Davyhulme Rd East	379074	395178	Trafford	26-Oct-03	2.00	0.00	3	0	1	0	1	0	1.8	0.0	366	365	308
208	Deansgate/Black Horse St	371394	409226	Bolton	09-Nov-03	0.33	0.33	1	0	0	0	0	0	0.4	0.0	366	365	294
228	Kay St/Higher Bridge St	371645	410098	Bolton	09-Nov-03	2.67	0.33	2	0	1	0	2	0	1.8	0.0	366	365	294
1130	New Market St/Parsons Walk (ex 10/28)	358089	405965	Wigan	13-Nov-03	2.33	1.33	3	2	3	3	3	2	3.2	2.5	366	365	290
493	M67 J1/Ashton Rd	392469	395666	Tameside	23-Nov-03	1.33	0.33	0	0	0	0	0	0	0.0	0.0	366	365	280
6 26	Liverpool Rd/Fairhills Rd	371850	393801	Salford	01-Dec-03	0.67	0.00	0	0	0	0	0	0	0.0	0.0	366	365	272
855	Frederick Rd/Lwr Broughton Rd	382342	399926	Salford	16-Dec-03	6.00	2.00	3	1	1	0	0	0	1.5	0.4	366	365	257
89	Grafton St/Oxford Rd	384810	396270	Manchester	20-Dec-03	3.33	1.67	3	2	5	2	1	0	3.3	1.5	366	365	253
469	Croston Rd/Tottington Rd	379624	411141	Bury	25-Jan-04	3.00	0.33	2	0	0	0	0	0	0.8	0.0	366	365	217
1011	Grimshaw Ln/Monsall Rd/Oldham Rd	386623	400193	Manchester	01-Feb-04	2.33	0.67	6	1	7	0	1	0	5.4	0.4	366	365	210
839	Bury New Rd/Moor Ln	382256	402071	Salford	08-Feb-04	1.33	0.33	0	0	2	0	1	0	1.2	0.0	366	365	203
418	Chester Rd/Talbot Rd (Sale end)	380142	395094	Trafford	09-Feb-04	3.67	0.33	1	0	2	0	0	0	1.2	0.0	366	365	202
107	Portland St/Sackville St	384232	397955	Manchester	15-Feb-04	2.67	2.00	0	0	2	1	1	1	1.2	0.8	366	365	196
149	Portland St/York St	384340	398080	Manchester	24-Feb-04	3.00	2.00	0	0	1	0	1	0	0.8	0.0	366	365	187
1029	Gt Western St/Wilmslow Rd	385113	395529	Manchester	07-Mar-04	3.33	0.67	7	0	3	0	1	0	4.4	0.0	365	365	176
135	Gt Western St/Upper Lloyd St	384437	395521	Manchester	26-Mar-04	1.00	0.33	2	0	2	1	0	0	1.6	0.4	365	365	157
156	Moss Ln East/Oxford Rd/Wilmslow Rd	385035	395700	Manchester	28-Mar-04	3.66	0.67	2	1	3	0	1	0	2.5	0.4	365	365	155
6	Oxford Rd/Hathersage Rd	384978	395856	Manchester	08-Apr-04	3.33	0.67	2	1	4	0	1	0	2.9	0.4	365	365	144
103	Auburn St/Ducie St/London Rd/Piccadilly Sta	384645	398051	Manchester	25-Apr-04	2.66	1.67	3	2	4	3	1	1	3.4	2.6	365	365	127
142	Dickenson Rd/Platt Ln/Wilmslow Rd	385339	395008	Manchester	09-May-04	4.66	0.33	2	0	4	2	4	1	4.3	1.3	365	365	113
1058	Claremont Rd/Lloyd St South/Upper Lloyd St	384345	395199	Manchester	09-May-04	3.66	1.00	0	0	2	1	0	0	0.9	0.4	365	365	113
38	Blackfriars St/Deansgate/St. Mary's Gate	383756	398551	Manchester	16-May-04	3.00	0.67	5	4	0	0	0	0	2.2	1.7	365	365	106
817	Blackfriars Rd/Silk St	382916	399246	Salford	20-May-04	3.00	0.00	1	0	0	0	0	0	0.4	0.0	365	365	102

**List of Signalised Junctions with Modified Nearside Indicators with Associated Accident Data Sorted by Modification Date**

Site No.	Road Names	Easting	Northing	Authority	Modification Date	Before (Rate/Year)		After 1st Year		After 2nd Year		After 3rd Year		After (Rate/Year)		No. of Days in		
						All	Ped	All	Ped	All	Ped	All	Ped	All	Ped	1st Yr	2nd Yr	3rd Yr
203	St. George's Rd/Knowsley St	371563	409564	Bolton	21-May-04	0.67	0.00	0	0	0	0	0	0	0.0	0.0	365	365	101
1 28	Beaumont Rd/Junction Rd West	368127	408422	Bolton	27-May-04	1.00	0.00	0	0	0	0	0	0	0.0	0.0	365	365	95
101	Parrs Wood Rd/School Ln	385432	391024	Manchester	12-Jun-04	2.00	0.67	1	0	0	0	0	0	0.5	0.0	365	365	79
716	Ashton Rd/Hathershaw Ln	392755	403043	Oldham	20-Jun-04	0.33	0.33	0	0	1	1	0	0	0.5	0.5	365	365	71
233	Black Horse St/Ashburner St	371477	409000	Bolton	27-Jun-04	4.00	2.66	2	2	1	0	0	0	1.4	0.9	365	365	64
1 49	Crompton Way/Thicketford Rd	373234	410422	Bolton	27-Jun-04	3.33	0.67	1	0	3	0	1	1	2.3	0.5	365	365	64
684	Oldham Rd/Ashton Rd West	389245	401294	Oldham	09-Jul-04	1.67	0.67	2	0	3	0	0	0	2.3	0.0	365	365	52
3 93	Monsall St/Queen's Rd	385797	400390	Manchester	14-Jul-04	4.33	1.00	3	0	7	1	0	0	4.7	0.5	365	365	47
1219	Devonshire St/Devonshire St South/Stockport	385675	396687	Manchester	16-Jul-04	5.66	0.00	4	0	7	1	0	0	5.2	0.5	365	365	45
605	Albert Rd/Glynne St	373382	406037	Bolton	18-Jul-04	3.00	0.00	2	2	0	0	0	0	0.9	0.9	365	365	43
570	Market St/Dowson Rd (ex 8/11)	395131	394474	Tameside	25-Aug-04	0.00	0.00	0	0	1	1	0	0	0.5	0.5	365	365	5
1 109	St. Helens Rd/Morris Green Ln (ex 223)	370025	407324	Bolton	05-Sep-04	1.67	1.00	4	2	2	2			3.0	2.0	365	359	0
301	Woodlands Rd/Church St	376794	388226	Trafford	26-Sep-04	2.00	0.00	1	0	5	0			3.1	0.0	365	338	0
25	Cheetham Hill Rd/Queen's Rd	384432	400405	Manchester	03-Oct-04	11.66	1.33	5	2	4	1			4.7	1.6	365	331	0
174	Altrincham Rd/Brookway Retail Park Access/T	380212	389382	Manchester	03-Oct-04	0.33	0.00	1	0	0	0			0.5	0.0	365	331	0
725	Rochdale Rd/Middleton Rd	392221	405033	Oldham	31-Oct-04	0.00	0.00	0	0	1	1			0.5	0.5	365	303	0
956	Carrington Rd/Brinnington Rd (ex 7/64)	390398	391045	Stockport	19-Nov-04	1.00	0.33	1	0	2	0			1.7	0.0	365	284	0
973	St. Mary's Way/Hall St (ex 7/03)	390174	390196	Stockport	28-Nov-04	3.00	0.33	4	0	6	0			5.7	0.0	365	275	0
7 99	Prince's St/Port St	389284	390446	Stockport	03-Dec-04	0.33	0.00	0	0	1	0			0.6	0.0	365	270	0
405	M60 J7 W/B off-slip/Chester Rd	379132	393376	Trafford	12-Dec-04	4.33	0.00	1	1	2	0			1.7	0.6	365	261	0
137	Elizabeth St/Waterloo Rd	383827	400562	Manchester	14-Dec-04	1.67	0.00	0	0	1	0			0.6	0.0	365	259	0
4 26	Hollins Rd/Limeside Rd	391157	402680	Oldham	13-Jan-05	1.00	0.67	2	1	2	1			2.5	1.2	365	229	0
24	Cheetham Hill Rd/Elizabeth St	384349	400115	Manchester	14-Jan-05	3.00	0.00	5	0	2	1			4.3	0.6	365	228	0
934	Shaw Heath/Longshut Ln West	389515	389322	Stockport	20-Jan-05	0.00	0.00	1	1	0	0			0.6	0.6	365	222	0
480	Broadway/Hollinwood Ave	389146	402866	Oldham	04-Feb-05	4.33	0.00	7	0	1	1			5.1	0.6	365	207	0
93	Oxford St/Whitworth St/Whitworth St West	384086	397578	Manchester	06-Mar-05	11.66	2.66	8	6	5	4			8.8	6.7	365	177	0

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Site No.	Road Names	Easting	Northing	Authority	Modification Date	Before (Rate/Year)		After 1st Year		After 2nd Year		After 3rd Year		After (Rate/Year)		No. of Days in		
						All	Ped	All	Ped	All	Ped	All	Ped	All	Ped	1st Yr	2nd Yr	3rd Yr
1245	Cross Ln/Garratt Way/Wellington St	388726	396252	Manchester	06-Mar-05	1.33	0.67	1	0	1	0			1.3	0.0	365	177	0
878	Gt Egerton St/Knightsbridge (ex 7/81)	389521	390775	Stockport	13-Mar-05	1.33	0.00	0	0	0	0			0.0	0.0	365	170	0
1000	Middleton Rd/Sheepfoot Ln	383755	403632	Manchester	22-Mar-05	4.33	0.00	3	0	1	0			2.8	0.0	365	161	0
3 67	Wilbraham Rd/Edge Ln (15)	380958	393994	Manchester	29-Mar-05	1.67	0.00	0	0	0	0			0.0	0.0	365	154	0
13	Barlow Moor Rd/High Ln	381839	393605	Manchester	03-Apr-05	2.66	0.00	5	0	0	0			3.6	0.0	365	149	0
1155	Middleton Rd/Victoria Ave	383892	404074	Manchester	03-Apr-05	1.67	0.00	1	0	1	0			1.4	0.0	365	149	0
217	Gt Moor St/Newport St	371695	408940	Bolton	10-Apr-05	1.00	0.33	2	0	0	0			1.4	0.0	365	142	0
1 10	Blackrod Bypass/Station Rd	362381	410485	Bolton	12-Apr-05	4.33	0.33	5	0	1	0			4.3	0.0	365	140	0
14	Wilbraham Rd/Barlow Moor Rd	381685	394009	Manchester	24-Apr-05	5.99	1.67	2	0	1	0			2.2	0.0	365	128	0
148	Moseley Rd/Wilbraham Rd/ Wilmslow Rd	385585	394003	Manchester	24-Apr-05	8.66	1.33	9	2	5	2			10.4	3.0	365	128	0
601	Barton Rd/Barton Ln	376574	397699	Salford	06-May-05	2.00	0.67	2	0	0	0			1.5	0.0	365	116	0
746	Bury Rd/Long Ln	374069	409434	Bolton	25-May-05	1.33	0.33	2	1	0	0			1.6	0.8	365	97	0
1 22	Beaumont Rd/Wigan Rd	368655	407382	Bolton	05-Jun-05	2.00	0.00	5	2	0	0			4.0	1.6	365	86	0
916	Shaw Heath/Lowfield Rd	389575	389117	Stockport	22-Jun-05	0.67	0.00	0	0	0	0			0.0	0.0	365	69	0
5 20	Rochdale Rd/Hollin Ln	387162	406826	Rochdale	29-Jun-05	2.33	0.33	2	1	0	0			1.7	0.9	365	62	0
225	Bury Rd/Crompton Way	373659	409421	Bolton	10-Jul-05	2.00	0.67	1	0	0	0			0.9	0.0	365	51	0
475	Angouleme Way/Market St	380541	410483	Bury	17-Jul-05	3.66	1.00	3	2	0	0			2.7	1.8	365	44	0
3 2	Altrincham Rd/Hall Ln	381655	389357	Manchester	21-Jul-05	2.00	0.33	5	0	0	0			4.5	0.0	365	40	0
314	London Rd/Buxton Rd	392543	386511	Stockport	24-Jul-05	1.33	0.33	1	0	0	0			0.9	0.0	365	37	0
224	Bury New Rd/Bradford St	372793	409305	Bolton	27-Jul-05	1.67	0.67	0	0	0	0			0.0	0.0	365	34	0
5 55	Middleton Way S of Middleton Bus Station	386771	405645	Rochdale	29-Jul-05	0.67	0.67	0	0	0	0			0.0	0.0	365	32	0
911	Manchester Rd North/Oldham St (ex 8/52)	391477	395531	Tameside	03-Aug-05	1.33	0.00	1	0	0	0			0.9	0.0	365	27	0
704	Huddersfield Rd/Cross St	393633	405279	Oldham	21-Aug-05	2.33	0.00	4	0	0	0			3.9	0.0	365	9	0
110	Hanover St/Shude Hill	384357	398790	Manchester	02-Sep-05	0.00	0.00	0	0					0.0	0.0	362	0	0
826	Leicester Rd/Gt Cheetham St East	383298	400778	Salford	04-Sep-05	0.33	0.00	1	0					1.0	0.0	360	0	0
494	Manchester Rd/Hyde Rd	392544	395499	Tameside	04-Sep-05	3.33	0.33	4	0					4.1	0.0	360	0	0
162	Parrs Wood Rd/Wilmslow Rd	382133	392897	Manchester	16-Sep-05	3.66	1.67	1	0					1.0	0.0	348	0	0

**List of Signalised Junctions with Modified Nearside Indicators with Associated Accident Data Sorted by Modification Date**

Site No.	Road Names	Easting	Northing	Authority	Modification Date	Before (Rate/Year)		After 1st Year		After 2nd Year		After 3rd Year		After (Rate/Year)		No. of Days in		
						All	Ped	All	Ped	All	Ped	All	Ped	All	Ped	1st Yr	2nd Yr	3rd Yr
33	Corporation St/Withy Grove	384035	398743	Manchester	20-Sep-05	4.66	3.33	3	3					3.2	3.2	344	0	0
465	Bury New Rd/Higher Ln	380821	405278	Bury	02-Oct-05	4.33	1.33	3	0					3.3	0.0	332	0	0
712	Huddersfield Rd/Ripponden Rd	394194	405653	Oldham	23-Oct-05	2.66	1.67	3	2					3.5	2.3	311	0	0
308	Washway Rd/Ashton Ln	378479	392143	Trafford	13-Nov-05	1.00	0.33	0	0					0.0	0.0	290	0	0
9 11	Flixton Rd/Bowfell Rd	375242	394742	Trafford	24-Nov-05	0.33	0.00	1	0					1.3	0.0	279	0	0
908	Buxton Rd/Kennerley Rd	390364	388466	Stockport	08-Dec-05	3.33	0.67	0	0					0.0	0.0	265	0	0
938	Bramhall Ln/Kennerley Rd	389945	388401	Stockport	11-Dec-05	0.67	0.00	0	0					0.0	0.0	262	0	0
169	Gt Ancoats St/Mancunian Way Extension/Pin M	385638	397741	Manchester	20-Jan-06	0.67	0.00	0	0					0.0	0.0	222	0	0
7 79	Manchester Rd/Whitehill St West	388910	391829	Stockport	25-Jan-06	1.00	0.33	0	0					0.0	0.0	217	0	0
1049	Dickenson Rd/Hamilton Rd/St. John's Rd	386691	395489	Manchester	02-Feb-06	3.33	0.67	0	0					0.0	0.0	209	0	0
1302	Manchester Rd/Dane St	389317	413134	Rochdale	05-Feb-06	1.00	0.00	3	0					5.3	0.0	206	0	0
133	Hathersage Rd/Upper Brook St	385478	395850	Manchester	18-Feb-06	4.66	1.67	0	0					0.0	0.0	193	0	0
909	Manchester Rd/School Ln	388439	392424	Stockport	19-Feb-06	1.67	1.00	1	0					1.9	0.0	192	0	0
120	Rochdale Rd/Moston Ln/Factory Ln	385953	401929	Manchester	22-Feb-06	5.66	1.33	3	2					5.8	3.9	189	0	0
5 63	Halifax Rd/Birch Rd/Old Rd (1322)	391989	415639	Rochdale	02-Apr-06	2.00	0.67	0	0					0.0	0.0	150	0	0
1 103	Barlow Moor Rd/Palatine Rd (3 103)	384002	391607	Manchester	24-May-06	4.00	1.00	1	0					3.7	0.0	98	0	0
5 64	Halifax Rd/Smithy Bridge Rd/Union Rd	392234	415759	Rochdale	25-May-06	2.33	0.00	0	0					0.0	0.0	97	0	0
5 2	Albert Royds St/Kingsway/Milnrow Rd	391543	413309	Rochdale	04-Jun-06	3.00	0.67	0	0					0.0	0.0	87	0	0
5 115	Kingsway/Merinal Close/Wallhead Rd	391443	413129	Rochdale	04-Jun-06	1.00	0.67	0	0					0.0	0.0	87	0	0
10 9	Manchester Rd/Ince Green Ln	359992	405377	Wigan	29-Jun-06	2.00	0.33	1	1					5.9	5.9	62	0	0
7 13	Chestergate/Mersey Square/Daw Bank	389358	390307	Stockport	02-Jul-06	1.00	0.67	0	0					0.0	0.0	59	0	0
7 127	Didsbury Rd/Bankhall Rd/Briars Mount	387474	390657	Stockport	24-Jul-06	1.67	0.00	0	0					0.0	0.0	37	0	0
456	Albert Rd/Buckley Ln/Long Causeway	373613	405261	Bolton	09-Aug-06	1.67	1.00	0	0					0.0	0.0	21	0	0
362	Manchester Rd/Lumb Ln	391339	397861	Tameside	21-Aug-06	2.00	1.00	0	0					0.0	0.0	9	0	0
<b>Total</b>						<b>339.43</b>	<b>84.61</b>	<b>241</b>	<b>68</b>	<b>178</b>	<b>45</b>	<b>79</b>	<b>13</b>	<b>257.79</b>	<b>69.20</b>			
	Not Complete Years Data																	
	No Data																	

**List of Signalised Junctions with New Nearside Indicators with Associated Accident Data Sorted by Installation Date**

Site No.	Road Names	Easting	Northing	Authority	Installation Date	Before (Rate/Year)		After 1st Year		After 2nd Year		After 3rd Year		After (Rate/Year)		No. of Days in		
						All	Ped	All	Ped	All	Ped	All	Ped	All	Ped	1st Yr	2nd Yr	3rd Yr
1059	Gt Western St/Princess Rd	383826	395528	Manchester	06-Jun-01	3.00	0.67	4	0	3	1	4	1	3.66	0.67	365	365	366
8 112	Moorside St/Hoppet Ln	391109	398992	Tameside	20-Dec-02	0.67	0.00	0	0	0	0	0	0	0.00	0.00	365	366	365
8 108	Queen's Rd/Alderley St	394931	400107	Tameside	05-Feb-03	0.33	0.33	0	0	0	0	0	0	0.00	0.00	365	366	365
6 80	Agecroft Rd/Site Access	379810	401564	Salford	03-Mar-03	0.00	0.00	0	0	0	0	1	0	0.33	0.00	366	365	365
3 146	Platt Ln/Yew Tree Rd	384766	394739	Manchester	27-Mar-03	4.67	0.33	2	0	1	0	0	0	1.00	0.00	366	365	365
392	Market St/Greenside Ln (ex 434)	390485	398236	Tameside	06-Apr-03	0.00	0.00	0	0	0	0	0	0	0.00	0.00	366	365	365
556	Greengate/Victoria Ave East/Greengate Roundabout	388394	403241	Manchester	02-Jun-03	0.67	0.00	2	0	2	0	2	0	2.00	0.00	366	365	365
557	Greengate East/Moston Ln/Greengate Roundabout	388406	403203	Manchester	02-Jun-03	1.00	0.00	0	0	0	0	1	0	0.33	0.00	366	365	365
558	Hollinwood Ave/Lightbowne Rd/ Greengate Roundabout	388452	403184	Manchester	02-Jun-03	3.67	0.33	1	0	3	0	1	0	1.67	0.00	366	365	365
7 160	Brinnington Rd/Northumberland Rd	391291	392238	Stockport	05-Jun-03	0.00	0.00	1	0	1	0	0	0	0.67	0.00	366	365	365
1008	Princess Rd/Withington Hospital Access	383443	392684	Manchester	01-Jul-03	0.00	0.00	3	0	3	0	1	0	2.33	0.00	366	365	365
270	Tonge Moor Rd/Castleton St	372815	410817	Bolton	14-Aug-03	0.67	0.00	0	0	0	0	0	0	0.00	0.00	366	365	365
10 3	Wigan Rd/Downall Green Rd	357108	400737	Wigan	17-Aug-03	1.33	0.33	0	0	1	1	2	0	1.00	0.33	366	365	365
10211	Wigan Ln/Royal Albert Edward Infirmary Access	358476	407145	Wigan	20-Aug-03	0.67	0.00	0	0	0	0	0	0	0.00	0.00	366	365	365
366	Lord Sheldon Way/Alexandria Drive	392074	398624	Tameside	29-Aug-03	0.00	0.00	0	0	1	0	1	0	0.67	0.00	366	365	365
442	Chester Rd/White City Retail Park Access	381125	396176	Trafford	11-Nov-03	0.00	0.00	0	0	0	0	0	0	0.00	0.00	366	365	231
368	Lord Sheldon Way/Richmond St	392894	399279	Tameside	11-Dec-03	0.00	0.00	4	0	5	1	1	0	3.68	0.37	366	365	262
1090	Cambridge St/Cavendish St	384120	396951	Manchester	12-Jan-04	4.33	2.00	1	0	1	0	0	0	0.76	0.00	366	365	230
753	Emmott Way/Clegg St	392792	404672	Oldham	12-Feb-04	0.00	0.00	0	0	0	0	1	0	0.39	0.00	366	365	199
6 81	Green Ln/King Edward St	376328	398587	Salford	11-Mar-04	0.33	0.00	0	0	0	0	0	0	0.00	0.00	365	365	172
360	Ashton Rd/Worthington Way	392451	395786	Tameside	31-Mar-04	1.33	0.00	1	1	1	0	0	0	0.83	0.41	365	365	152
291	Chorley Old Rd/Gaskell St	370823	409688	Bolton	13-Apr-04	2.33	0.00	1	1	1	0	0	0	0.84	0.42	365	365	139
188	Gartside St/New Quay St/Quay St	383201	398089	Manchester	18-Apr-04	0.67	0.00	1	0	2	0	0	0	1.27	0.00	365	365	134
1 119	Chorley Rd/Wimberry Hill Rd	364644	407556	Bolton	10-May-04	1.00	0.00	0	0	1	0	0	0	0.43	0.00	365	365	112

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Site No.	Road Names	Easting	Northing	Authority	Installation Date	Before (Rate/Year)		After 1st Year		After 2nd Year		After 3rd Year		After (Rate/Year)		No. of Days in		
						All	Ped	All	Ped	All	Ped	All	Ped	All	Ped	1st Yr	2nd Yr	3rd Yr
1 118	Beaumont Rd/Glengarth Drive	367780	408991	Bolton	18-May-04	1.00	0.00	0	0	1	0	0	0	0.44	0.00	365	365	104
1 128	Beaumont Rd/Armada Rd	368148	408284	Bolton	27-May-04	1.33	0.00	0	0	0	0	0	0	0.00	0.00	365	365	95
3 152	Sale Rd/Wythenshawe Rd	382164	390049	Manchester	28-May-04	5.33	0.00	0	0	4	0	0	0	1.77	0.00	365	365	94
600	Redclyffe Rd/B & Q Development Access	376828	397220	Trafford	16-Jun-04	0.00	0.00	0	0	0	0	0	0	0.00	0.00	365	365	75
1 12	Crompton Way/Green Way	372489	411331	Bolton	27-Aug-04	1.33	0.67	0	0	0	0	0	0	0.00	0.00	365	365	3
395	Hyde Rd/Saxon St	392637	395503	Tameside	17-Sep-04	1.33	0.33	0	0	3	0			1.54	0.00	365	347	0
396	Stockport Rd/Inman St	392582	395374	Tameside	17-Sep-04	1.00	0.33	1	0	1	0			1.03	0.00	365	347	0
3 1	Kenyon Ln/Moston Ln (3 14)	387069	401933	Manchester	24-Sep-04	2.66	1.67	2	0	2	1			2.07	0.52	365	340	0
22	Cheetham Hill Rd/Manchester Fort Retail Park	384391	400235	Manchester	21-Oct-04	0.00	0.00	1	0	0	0			0.54	0.00	365	313	0
593	Tiviot Way/Water St	390067	391241	Stockport	07-Nov-04	0.67	0.00	2	0	4	0			3.31	0.00	365	296	0
171	Cooper St/Princess St	383973	398058	Manchester	11-Nov-04	0.67	0.67	0	0	1	0			0.56	0.00	365	292	0
595	Portwood Roundabout/Gt Portwood St	390217	390997	Stockport	14-Nov-04	1.33	0.00	0	0	0	0			0.00	0.00	365	289	0
985	Portwood Roundabout/Crookilley Way	390297	391090	Stockport	14-Nov-04	2.66	0.00	4	0	1	0			2.79	0.00	365	289	0
506	M60 J7 E/B off-slip/Chester Rd	379216	393488	Trafford	12-Dec-04	3.33	0.00	4	0	1	0			2.92	0.00	365	261	0
899	Macclesfield Rd/Melford Rd Bus Station exit	392559	386348	Stockport	20-Dec-04	1.67	0.33	0	0	1	0			0.59	0.00	365	253	0
1134	Robin Park Rd/Police Station Access	356589	405503	Wigan	03-Feb-05	0.00	0.00	0	0	0	0			0.00	0.00	365	208	0
1600	Manchester Rd/Tweedale St	389206	412497	Rochdale	09-Mar-05	2.33	0.33	5	1	0	0			3.39	0.68	365	174	0
800	Higher Hillgate/Marriott St	389882	389730	Stockport	21-Apr-05	0.33	0.33	0	0	0	0			0.00	0.00	365	131	0
455	Manchester Rd/South Trafford College Access	376882	389812	Trafford	11-May-05	0.33	0.00	0	0	0	0			0.00	0.00	365	111	0
1 24	Bridgeman St/High St	371101	407899	Bolton	24-Jun-05	4.00	0.67	2	0	0	0			1.69	0.00	365	67	0
191	Burnage Ln/Ln End Rd	386029	391557	Manchester	08-Sep-05	3.00	0.00	2	1					2.05	1.03	356	0	0
875	Wellington St/Lower Hillgate	389765	390270	Stockport	08-Sep-05	0.67	0.00	4	2					4.10	2.05	356	0	0
58	Parrs Wood Ln/Wilmslow Rd/East Didsbury Station	385405	390418	Manchester	10-Oct-05	1.67	0.33	1	0					1.13	0.00	324	0	0

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Site No.	Road Names	Easting	Northing	Authority	Installation Date	Before (Rate/Year)		After 1st Year		After 2nd Year		After 3rd Year		After (Rate/Year)		No. of Days in		
						All	Ped	All	Ped	All	Ped	All	Ped	All	Ped	1st Yr	2nd Yr	3rd Yr
199	Ashton Old Rd/Welcomb St	387942	397439	Manchester	02-Nov-05	0.33	0.00	0	0					0.00	0.00	301	0	0
154	Oldham Rd/The Gateway	387007	400406	Manchester	09-Nov-05	0.00	0.00	0	0					0.00	0.00	294	0	0
223	Belmont Rd/Bar Ln	371283	412086	Bolton	15-Feb-06	0.67	0.00	1	0					1.86	0.00	196	0	0
136	Hathersage Rd/Hospital Access	385344	395836	Manchester	16-Feb-06	0.67	0.33	0	0					0.00	0.00	195	0	0
3 80	Victoria Station Approach SE of Hunt's Bank	384012	398929	Manchester	23-Feb-06	0.00	0.00	1	1					1.94	1.94	188	0	0
349	Junction Inn/Hyde Rd/Stalybridge Rd	399311	395641	Tameside	30-Apr-06	0.67	0.00	0	0					0.00	0.00	122	0	0
3 24	Palatine Rd/Church Rd/Kenworthy Ln	382846	390061	Manchester	16-May-06	4.00	0.67	0	0					0.00	0.00	106	0	0
10 35	Woodhouse Drive/Scot Ln (2100)	356289	406988	Wigan	19-Jul-06	2.66	0.00	0	0					0.00	0.00	42	0	0
7 131	Mauldeth Rd/Thornfield Rd	387107	391115	Stockport	04-Sep-06	1.33	0.00									0	0	0
<b>Total</b>						<b>73.61</b>	<b>10.66</b>	<b>51</b>	<b>7</b>	<b>45</b>	<b>4</b>	<b>15</b>	<b>1</b>	<b>55.56</b>	<b>8.41</b>			
	Not Complete Years Data																	
	No Data																	