

West Yorkshire Local Transport Plan 2 Monitoring Report 2009

September 2009

WEST YORKSHIRE LOCAL TRANSPORT PLAN 2006/07 - 2010/11 **2009 MONITORING REPORT**

The West Yorkshire Local Transport Plan Partnership

September 2009













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CHAPTER 1 INTRODUCTION

- 1.1 This report provides detailed information on the 46 key and background indicators which have been identified to effectively monitor both the Local Transport Plan (LTP) and associated national and local strategies. Not all indicators have associated targets; background indicators are used to inform the overall performance of the LTP strategy whereas key indicators relate directly to LTP or national targets. These indicators are summarised in Table 1.1
- 1.2 Where relevant the appropriate National Indicators (NI) are included. Progress is also reported against the Department for Transport's (DfT) Mandatory Indicators.
- 1.3 Data is obtained from a variety of published sources, national databases or specifically developed data collection exercises.
- 1.4 The remainder of this report is structured around indicators developed to monitor the 4 shared priorities of the LTP plus Asset Management with an initial section devoted to monitoring economic changes.
- 1.5 The data presented updates that given in the Monitoring Report which accompanied the West Yorkshire Local Transport Plan 2 Progress Report for 2008 and an indication of progress towards LTP2 targets is also provided.

LTP2 Additional Ref Indicator **Shared Priority** (DfT Mandatory, Local Key, or **Objective** for Key Background Trend Indicator) (*) Indicators (**) **ECONOMIC BACKGROUND** E1 **Unemployment Rates** 01 E2 Local Trade Levels/Vacant Premises 01 **E**3 Central Area Rental Values 01 E4 Town Centre Footfall 01 SHARED PRIORITY: DELIVERING ACCESSIBILITY **Non Car Travel Time to Hospitals** 02 C,AQ **A1** A2 **Bus Service Punctuality** O2, O3 C,AQ O2, O3 **A3** Satisfaction with Bus Services C,AQ S,C Α4 **Cvcle Flows** O3 Satisfaction with LTP funded Public **A5** 02 C,AQ Transport Facilities AccessBus Patronage A6 Ω 2 Pedestrian Crossing Facilities **A7** 02 02,03 **8**A Age of Bus Fleet **SHARED PRIORITY: TACKLING CONGESTION** C1 **Average Journey Time Per Person** O3 A,S,AQ Per Mile on Key Routes (NI 167) C2 **Town/City Centre Morning Peak** O3 A,AQ **Period Traffic Flows** C3 Mode Share for Journeys to O3 A,S,AQ **School (NI 198)** C4 Public Transport Patronage (NI O3 A,S,AQ C5 O3 AM Peak Cycle Trips to Centres of A,S,AQ Leeds, Wakefield and Halifax AM Peak Period Modal Split to C6 O3 A,S,AQ Main Urban Centres **C7** Peak Period Rail Patronage to O3 A,S,AQ Leeds **C8 Quality Bus Corridor Patronage** O3 A,S,AQ C9 Peak Period Journey Time Variability O3 on Key Routes C10 % of Network Below Reference O3 Speed in Peak Periods C11 O3 Peak Spreading Index C12 Morning Peak Period Car Occupancy О3

1-2

Ref	Indicator (DfT Mandatory, Local Key, or Background Trend Indicator)	LTP2 Objective (*)	Additional Shared Priority for Key Indicators (**)
C13	Mode Share for Travel to Work	O3	1
C14	Travel Distance to Work	03	
C15	Generalised Costs for Private and Public Transport	O3	
C16	Cost of Travel	O3	
C17	All Day Commuter Parking Supply & Cost	O3	
SHARI	ED PRIORITY : SAFER ROADS		
S1	All Road User Casualty Trends (NI 47)	O4	
S2	Casualty Trends for Children (NI 48)	04	
S3	Slight Casualty Rates	04	
S4	Casualty Trends for Different Road User Groups	O4	
S5	Town Centre Car Park Spaces with CCTV Cameras	O4	
S6	Rail/Bus Stations with CCTV Cameras	O4	
S7	Town and City Centre Streets with CCTV Cameras	O4	
SHARI	ED PRIORITY : BETTER AIR QUALITY		
AQ1	NO ₂ Levels in AQMA's	O5	С
AQ1 AQ2	Area Wide Traffic Flows	O5	C
AQ3	Area Wide Frame Flows Area Wide Road Transport Emissions - NOx, CO ₂	O5	C
AQ4	Air Quality Monitoring in Town and City Centres	O5	
AQ5	Area Wide Road Transport Emissions : PM ₁₀	O5	
AQ6	Low Noise Road Surfacing	O5	
SHARI	ED PRIORITY : ASSET MANAGEMENT		
AM1	Principal, Non Principal and Unclassified Road Condition (NI 168, 169)	O6	C, S
AM2	Footway Condition	O6	C,S
АМЗ	Structures with Weight and/or Width Restrictions	O6	A,S
AM4	Bus Shelters Meeting Modern Standards	O6	A,S

* LTP2 Objectives

- O1. To develop and maintain an integrated transport system that supports economic growth in a safe and sustainable way and enhances the overall quality of life for the people of West Yorkshire
- O2. To improve access to jobs, education and other key services for everyone
- O3. To reduce delays to the movement of people and goods
- O4. To improve safety for all highway users
- O5 To limit transport emissions of air pollutants, greenhouse gases and noise
- O6. To improve the condition of the transport infrastructure

** Shared Priorities

- A Delivering Accessibility
- C Tackling Congestion
- S Safer Roads
- AQ Better Air Quality
- M Effective Asset Management

Table 1.1. DfT Mandatory, Local Key and Background Trend Indicators, Local Transport Plan Objectives and Shared Priorities

CHAPTER 2 ECONOMIC BACKGROUND

Role of Transport

- 2.1 The Regional Economic Strategy 2006-2015 for the Yorkshire and Humber region recognises that transport is a critical issue for the region which affects business success, quality of life and the environment. The Strategy identifies that a strong economy needs good sustainable transport connections and to make the best of the environment and infrastructure. Transport is strongly linked to all of the objectives of the Strategy as it supports business development, access to jobs and services and the development of towns, cities and rural communities.
- 2.2 The Regional Spatial Strategy (RSS) for Yorkshire and the Humber to 2026 sets out the policies in relation to the development of land within the region. The RSS seeks to help the region become more competitive, meet its housing needs and address its environmental and transport pressures in ways that are sustainable. For the sub region the plan states that plans, strategies, investment decisions and programmes for the Leeds City Region should support the roles of Leeds and Bradford as major engines of the regional economy, spread the benefits of the Leeds economy to other parts of the sub region, support the indigenous growth of the economies of the sub region and help to connect disadvantaged communities to job opportunities.
- 2.3 The RSS embodies the Regional Transport Strategy (RTS) which seeks to integrate transport with land-use planning and other policy areas. The RTS identifies regional priorities for transport investment and management which contribute to achieving the wider objectives of the plan.

Background Indicator E1: Claimant Count and Unemployment Rates

- 2.4 Release of the 2001 Census 'workplace' data has enabled a baseline for local area and sub-regional work patterns, and provides information for more confident transport planning.
- 2.5 Recent trends in unemployment at national level, regional level and for the individual centres in West Yorkshire are indicated in Table 2.1. The figures show the rates calculated as proportion of estimated resident population of working age, based on is those residents who were economically active.
- 2.6 The figures indicate a significant increase in unemployment over the last year reflecting the impact of the national recession.

Area	2001	2002	2003	2004	2005	2006	2007	2008	2009
Great Britain	2.8	2.7	2.7	2.5	2.4	2.7	2.5	2.2	4.1
Yorkshire and the Humber	3.4	3.1	3.0	2.7	2.5	3.0	2.8	2.5	4.7
Bradford	4.1	4.0	3.9	3.3	2.9	3.5	3.4	3.1	4.9
Calderdale	3.3	3.1	3.0	2.5	2.2	2.8	2.9	2.6	4.9
Kirklees	2.8	2.6	2.6	2.2	2.1	2.5	2.6	2.5	4.5
Leeds	3.1	2.9	3.0	2.6	2.7	3.1	2.9	2.6	4.7
Wakefield	3.1	2.8	2.7	2.3	2.3	2.8	2.5	2.3	4.6

Table 2.1 Unemployment Rates Calculated as Proportion of Estimated Resident Population of Working Age. March Figures

- 2.7 Transport has a role to play in influencing business to locate in West Yorkshire and improving people's access to jobs and amenities. Improving end to end journey times and bringing business together helps reduce travel related non-productive time. Transport investment will broaden the access of employers to available labour markets and a successful and sustainable transport policy promoting confidence will continue to contribute towards falling unemployment levels.
- 2.8 Monitoring of economic activity and working patterns in West Yorkshire will continue throughout LTP2.

Background Indicator E2: Local Trade Levels / Vacant Premises

- 2.9 Viability is a measure of the capacity to attract ongoing investment, for maintenance and improvement and to respond to changing needs. The response of owners and tenants to changing demands and sustaining the vitality and viability of shopping areas depends on flexibility in the use of retail floor space. Increased provision of retail space is important to encourage new businesses into the area and allow existing businesses to expand. The result of both is to create a multiplier effect on spending/income/investment. Overall it is a sign of investor confidence and the transport system needs to meet the expectations and needs of the retailers, suppliers and customers.
- 2.10 Retailer's interest in locating in the area is a valuable indicator of viability and vacancy levels, particularly vacancy in prime retail areas, provides an effective insight into the performance of the cities and towns of West Yorkshire. Table 2.2 shows the latest data on the availability and occupancy of retail floor space in the main centres. The vacancy rate indicator is most useful as a ratio, particularly in view of the increase in provision.

District Vacant Units **Vacant Floor** Year Floor space 000m² 000m² No. No. Bradford 2000 131 515 108 2001 14 11 21 2002 2003 112 499 19 17 116 23 2004 21.9 517 113 2005 --533 ----132 24.8 ------2006 478 78 16.3 __ 2007 --477 --57 12.0 2008 --480 ----62 13.0 2009 468 69 14.9 Halifax 2000 55 510 9 11.7 38 7.5 59 5 81 2002* 629 8.4 12.8 2002* 96 821 10 10.4 104 12.7 2003 ----------2004 --__ --------2005 2006 9 9.2 13 2007 99 762 99 2008 92 925 9 10.0 122 13.2 2009 80 705 Huddersfield 16 19.5 94 13.3 2000 2002 87 739 11 12.8 117 15.8 2003 83 732 6 7.5 90 12.3 82 74 2004 730 6 7.0 10.5 2005 81 724 4 5.5 66 9.1 2006 86 11.0 12.0 10.7 719 77 2007 86 9.1 10.6 70 718 9.7 2008 na na na na na na 2009 Leeds 2000 180 956 15.8 8.8 125 13.0 2001 180 950 19.8 11.0 129 13.6 2002 201 1006 23.9 11.9 143 14.2 2003 201 1004 22.8 148 14.7 11.3 2004 203 1012 21.8 10.7 141 13.9 2005 204 141 14.1 1002 21.3 10.4 2006 208 147 14.5 1011 26.5 12.8 2007 210 1021 31.6 15.0 176 17.2 2008 Na Na na na na na 2009 Wakefield 2000 75 574 9 12.6 51 8.5.7 2002 72 556 6 7.7 32 4.1 72 555 14 2004 4 5.1 23 2005 73 556 1 1.1 8 1.6 2006 72 556 1.3 2.9 1 9 72 16 3.9 2007 556 1 1.5 2008 72 556 8 10.6 28 3.9 2009

Table 2.2: Availability and Occupancy of Retail Floor Area

Note: No inference can be drawn from a comparison of the absolute figures since each centre has been defined according to local circumstances

Bradford figures affected by Broadway redevelopment

2.11 An increase in the provision of retail trading space and a decrease in vacancy rates for floor space and units as local trade improves.

^{*} Halifax town centre was redefined in 2002. The figures shown set out the corresponding results for the new area.

2.12 Key areas such as diversity of use and retailer demand for premises need to be examined and analysed regularly in future years. The data on availability and occupancy of retail floor space will continue to be presented on an annual basis.

Background Indicator E3: Central Area Rental Values

2.13 The rental values of commercial premises in district centres can be taken as a measure of the marketability of the property and provide an indication of retailer desire to locate within an area. Data presented in Tables 2.3 to 2.5 is extracted from Valuation Office Property Market Report's (VOPMR), a national publication which collates rental values of commercial property in major towns and cities throughout the country. The main centres in West Yorkshire are included and comprehensive district centre audits provide rents and yields both from the VOPMR and from private sector specialist businesses

				LOCATION		
TYPE	YEAR	Bradford	Halifax	Huddersfield	Leeds	Wakefield
1 25-75 m ²	Jul 04	66	60	65	65	60
	Jan 06	65	65	70	70	66
	Jan 07	70	70	75	75	70
	Jan 08	68	68	75	75	72
	Jan 09	55	55	60	60	58
2 150 – 200 m ²	Jul 04	47	55	60	65	60
	Jan 06	60	60	65	65	64
	Jan 07	65	65	70	68	65
	Jan 08	60	60	70	68	68
	Jan 09	48	48	56	55	55
3 circa 500m ²	Jul 04	47	45	50	50	50
	Jan 06	53	50	55	55	60
	Jan 07	52.5	52.5	60	58	58
	Jan 08	53.0	53.0	65	57	55
	Jan 09	42	42	52	46	44
4. Circa 1000 m ²	Jul 04	41	40	45	50	50
	Jan 06	48	45	50	55	50
	Jan 07	48	48	55	55	50
	Jan 08	48	48	55	52	52
	Jan 09	38	38	44	41	41
5 Multi Storey	Jul 04		23	25		
	Jan 06		25	30		
	Jan 07		30	35	30	
	Jan 08		30	35	30	
	Jan 09		24	28	24	

Source: Valuation Office Property Market Report

ote: i). Property types as defined in Valuation Office Property Market Report

ii). 2009 Figures are provided by Valuation Office as an approximate guide only due to a lack of evidence caused by poor market conditions.

Table 2.3: Rental Values for Industrial Premises

Rental Values £/m ²												
Location	Type 1 ZP1				Type 2 ZPI				Type 3 GIA			
	July 04	Jan 07	Jan 08	Jan 09	July 04	Jan 07	Jan 08	Jan 09	July 04	Jan 07	Jan 08	Jan 09
Bradford	1,300	1,300	1,400	1,200	750	750	775	660	200	200	200	170
Halifax	1,000	1,200	1,300	1,100	500	550	600	500	150	200	200	170
Huddersfield	1,100	1,350	1,500	1,275	550	650	675	575	225	200	200	170
Leeds	3,000	3,250	3,350	2,850	800	850	875	750	230	245	250	210
Wakefield	1,200	1,250	1,200	1,000	550	600	600	500	150	180	180	155

Note: i). Property types as defined in Valuation Office Property Market Report

Table 2.4: Rental Values for Shops

		Rental Values £/m2										
Location		Ту	pe 1			Тур	e 2			Type 3		
	July 04	Jan 07	Jan 08	Jan 09	July 04	Jan 07	Jan 08	Jan 09	July 04	Jan 07	Jan 08	Jan 09
Bradford	120	115	115	90	120	120	120	95	120	85	90	70
Halifax	110	150	115	90	110	150	155	125	80	100	105	85
Huddersfield	120	160	165	130	120	160	170	135	85	110	115	90
Leeds	190	230	230	185	220	230	235	190	175	195	195	155
Wakefield	145	145	145	115	150	150	150	120	120	110	110	90

Note: i). Property types as defined in Valuation Office Property Market Report

Table 2.5: Rental Values for Offices

- 2.14 Increasing rental values indicates an improving economic environment in district centres.
- 2.15 Information on this indicator will be gathered from the VOPMR and will continue to be reported in future years against the base values of 2004. However, due to a lack of reliable evidence the figures quoted for 2009 are given as an approximate guide.
- 2.16 In addition the valuation Office is currently reviewing its indicators to determine whether they are fit for purpose in the 21st Century.

ii). 2009 Figures are provided by Valuation Office as an approximate guide only due to a lack of evidence caused by poor market conditions.

ii). 2009 Figures are provided by Valuation Office as an approximate guide only due to a lack of evidence caused by poor market conditions.

Background Indicator E4: Pedestrian Activity

- 2.17 In shopping areas, the level of pedestrian activity gives a good indication of the health of the retail sector of the economy. The methodology of pedestrian surveys undertaken varies from centre to centre. By repeating surveys at the same sites and on the same days of the week, the results can be converted to a single figure for each centre which can be compared year on year with the base figure.
- 2.18 Table 2.6 shows the change since 2004, the base year for LTP2. Data collection has been suspended in Wakefield due to the major redevelopment of the city centre taking place.
- 2.19 Increased pedestrian activity in shopping areas would indicate a strong economy and assist in the retention and development of strong centres.
- 2.20 Pedestrian activity will continue to be monitored and will be presented on an annual basis.

Commentary

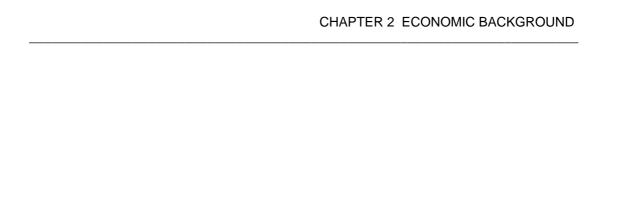
- 2.21 Although no single indicator can effectively measure how well centres are performing in terms of their attraction, accessibility and amenity, a selection of indicators can provide a view of performance and offer a means of assessing vitality and viability. Using this broad-based audit process, we can identify strengths and weaknesses of the town centres.
- 2.22 It is considered that the local performance indicators associated with the trend monitoring in this report are related to transport issues. Town centre audits are proving vital in underpinning strategic decisions about the continued development of the centres. A wider range of local indicators may emerge which reflect the impact of measures funded through the local transport plan expenditure as more comprehensive town centre audits are developed in the future.

Centre **Date Flow** Index **Bradford** Nov-2004 486,200 100 Nov 2005 476,700 98 Nov 2006 440,900 91 Nov 2007 421,800 85 88 Nov 2008 427,200 704,500 ** 100 Halifax ** Sept-2004 Sept 2005 705,300 ** 100 730,800** 104 Sept 2006 Sept 2007 714,700 101 82 Sept 2008 579,800 Huddersfield Apr-2004 81,700 100 March 2005 85,900 105 104 March 2006 84,900 March 2007 88,700 109 March 2008 88,500 108 103 March 2009 84,300 Leeds 100 May / June 2004 573,400 May / June 2005 616,000 107 May / June 2006 594,000 104 May / June 2007 626,700 109 May / June 2008 620,580 108 Wakefield 100 March-2004 311,000 March 2005 304,700 98 March 2006 331,800 107 March 2007 308,300 99 March 2008 341,000 110 March 2009 n/a n/a

Table 2.6 Pedestrian Activity In Centres

Notes on Table 2.6: No comparison can be made between centres as different survey methodologies apply.

^{**} Halifax data rebased following changes to methodology in 2007



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CHAPTER 3 DELIVERING ACCESSIBILITY

Introduction

3.1 The following 8 indicators have been developed to monitor our progress towards the "Delivering Accessibility" strategy in LTP2. Progress towards LTP2 targets will be measured using 4 mandatory and 1 local key indicators. The remaining three indicators are background trend indicators which will help us assess overall progress for this key strategy area.

Mandatory Indicator A1: Non Car Travel Times to Hospitals

- 3.2 The Accession software has been used to calculate accessibility statistics for each 2001 census output area in West Yorkshire. Public Transport information is based on data supplied by DfT.
- 3.3 The base year (2005) calculation for this indicator shows that 89.5% of households without access to a car are within 30 minutes of a hospital. By 2006 this proportion had fallen to 82% with a further falls to 78% in 2007 and 75.4% in 2008. The downward trend has continued with the figure at March 2009 being 70.2%
- 3.4 Contraction of the bus network following service changes, the latest being in April 2007, continues to affect this indicator. Minor changes in timings of particular routes can have a significant effect on access to hospitals.

Mandatory Indicator A2: Bus Service Punctuality

3.5 Table 3.1 shows bus service punctuality, defined as the percentage of scheduled services less than 1 minute early or five minutes late, since the LTP2 base year of 2003/04

Year	Punctuality (%)
2003/04	82.6 [!]
2004/05	82.3 [!]
2005/06	*
2006/07	82.6
2007/08	85.7
2008/09	88.5

^{*} no data – change to AVL (real time system) data.

Table 3.1 Bus Service Punctuality, 2003/04 to 2008/09

[!] Figures corrected for sampling bias shown by the more comprehensive Real Time data

3.6 Data is now collected using the Real Time Positioning equipment fitted to West Yorkshire buses which allow us to measure punctuality using a much larger sample size. The target will now be rebased to 2006/07. The table shows an increase in punctuality between the revised baseline 2008/09.

3.7 Additionally the data indicates that, for frequent services (those with a headway of less than 15 minutes) the excess waiting time in 2006/07 was 1.07 minutes. This had improved to 1.01 minutes by 2007/08 but worsened slightly to 1.02 minutes by 2008/09.

Mandatory Indicator A3: Satisfaction with Local Bus services

- 3.8 As part of Central Governments assessment of local authority performance every three years the public are asked to indicate whether they were satisfied or dissatisfied with the provision of bus services overall. In 2003/04 54% of respondents indicated that they were happy with bus services and this had increased to 66.4% in 2006/07.
- 3.9 In addition Metro conducts regular Tracker Surveys to ascertain the public's attitude to public transport. They are based on a CATI survey (computer aided telephone interviewing) with a representative sample of the West Yorkshire population (i.e. representative of the 5 local authorities). Sample size is around 750 people above aged 14 or over. Table 3.2 shows the results of this survey. Since 2004 the level of satisfaction has risen from 6.73 to 7.69 in 2009. Future reporting of satisfaction levels will be based on this Tracker survey.

DATE	SCORE
2004	6.73
2005	6.87
2006	6.77
2007	7.21
2008	7.63
2009	7.69

Table 3.2 Tracker Survey of Users Satisfied with Local Bus Services, 2004 to 2009

Mandatory Indicator A4: Area Wide Cycle Flows

- 3.10 The West Yorkshire authorities are committed to encouraging cycling, for both commuting and leisure trips, through the provision of a high quality cycle network and through the inclusion of improvements for cyclists in the integrated corridor schemes.
- 3. 11 In response to the challenge of a national cycling target a methodology for measuring cycle flows throughout the area has been developed using National Traffic Census data. This survey is considered to be more indicative of wider cycle use than central area cordon counts and includes counts on all principal roads and a sample of minor roads counted for a 12 hour weekday over a 3 year cycle

3.12 To establish the level of cycling within West Yorkshire use was made of the database of 12 hour manual classified counts supplemented with additional counts. Following a trial of the methodology in Leeds the process has been extended to the whole of West Yorkshire for LTP2. Once again, only the sites which have at least one count during all of the three year periods are included in the statistic. This ensures that the dataset is a consistent set in terms of its constitution for the entire reporting period.

3.13 Table 3.3 shows the average number of cyclists observed across all 295 survey sites. The index shows the change in the level of cycling since the baseline of 2002/04 and this indicates a significant increase in cycling across all districts of West Yorkshire. The LTP2 target of a 10% increase by 2010/11 has already been exceeded and consideration is being given to stretching this target.

WEST YORKS	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008
Average Flow	34.0	34.0	35.3	37.7	39.1
Count	276	276	276	276	276
% base	100	100	103.7	110.6	114.7
BRADFORD					
Average	27.0	27.3	27.9	29.7	30.9
Count	60	60	60	60	60
% base	100	101.2	103.4	119.9	114.6
CALDERDALE					
Average	21.2	21.1	21.4	22.1	22.4
Count	31	31	31	31	31
% base	100	99.5	100.9	104.3	105.6
KIRKLEES					
Average	22.7	22.1	23.4	24.9	24.5
Count	51	51	51	51	51
% base	100	97.5	103.2	110.0	108.1
LEEDS					
Average	47.2	46.5	48.5	53.3	57.0
Count	94	94	94	94	94
% base	100	98.6	102.9	113.0	120.8
WAKEFIELD					
Average	38.3	40.1	41.4	41.1	40.7
Count	40	40	40	40	40
% base	100	104.6	108.0	107.3	106.1

Table 3.3 Volume of Bicycle Counts Across West Yorkshire 2002/04 – 2006/08.

3.14 Research will continue into the development of additional cycle monitoring techniques including investigating the latest advances in automatic cycle counters.

Local Key Indicator A5 : Satisfaction with LTP Funded Public Transport Facilities

3.15 Before and After monitoring of schemes implemented since 2004/05 have been used to develop an indicator of satisfaction with LTP funded public transport schemes, as shown in Table 3.4 below.

3.16 Monitoring of all schemes introduced during LTP2 will continue will be reported in future Monitoring Reports.

Year	Number of	Satisfaction		
	Schemes	Rate		
2004/05	7	87%		
2005/06	2	88%		
2006/07	1	96%		
2007/08	No schemes monitored			
2008/09	No schemes monitored			

Table 3.4 Satisfaction with LTP Funded Public Transport Schemes Completed Since 2004/05

Background Indicator A6 : AccessBus Patronage

- 3.17 AccessBus patronage data relates to the use of the specialised door-to-door service for people unable to use conventional public transport, operating under contract to Metro in all districts. Current data collection includes the number of passenger trips made annually. 320,000 passenger trips were made in 1995 and this had risen to 526,000 in 2008/09
- 3.18 Metro is implementing a strategy for improved access to mainstream public transport services. The door-to-door nature of the AccessBus service and the extra assistance given by drivers, particularly in relation to shopping activities. Individual entitlement to travel by AccessBus is managed, restricting passengers to 2 trips per week, despite this limitation the number of trips made on these services has increased by 5% since 2004/05.
- 3.19 AccessBus patronage trends since 1995/96 are shown in Figure 3.1

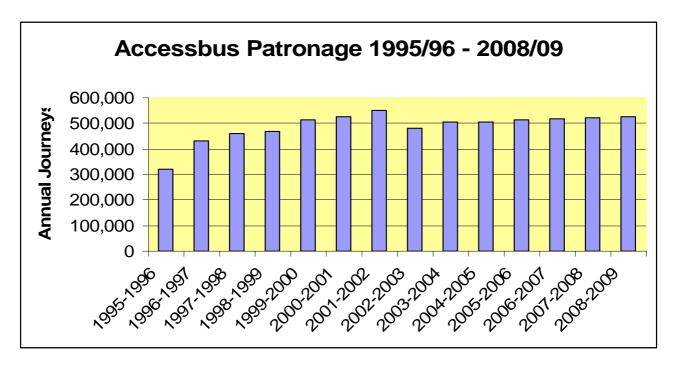


Figure 3.1 AccessBus Patronage Trends, 1995/96 – 2008/09

Background Indicator A7: Pedestrian Crossing Facilities Meeting BVPI 165

3.20 Data is presented from 2002/3 in line with the introduction of the old Performance Indicator BV165. Progress made in improving facilities at controlled crossings is shown below in Table 3.5.

Bradford								
Туре	With dropped kerbs, tactile paving and tactile indicators							
	2002/03		2006/07		2007/08		2008	/09
	No.	%	No.	%	No.	%	No.	%
Pelican/Puffin	52	46	165	100	182	96	182	97
Signal Control	25	34	100	97	105	95	106	97

Calderdale									
Type	With dropped kerbs, tactile paving and tactile indicators								
	2002/03		200	2006/07		2007/08		8/09	
	No.	%	No.	%	No.	%	No.	%	
Pelican/Puffin	16	57	42	100	42	100	42	100	
Signal Control	16	50	38	100	38	100	38	100	

Kirklees								
Туре	With dropped kerbs, tactile paving and tactile indicators							
	2002	2/03	2006/07		200	2007/08		/09
	No.	%	No.	%	No.	%	No.	%
Pelican/Puffin	24	48	74	96	77	99	81	100
Signal Control	42	76	84	99	85	100	85	100

Leeds								
Type	With	With dropped kerbs, tactile paving and tactile indicators						
	2002/03		2006/07		2007/08		2008/09	
	No.	%	No.	%	No.	%	No.	%
Pelican/Puffin	98	49	203	85	225	90	267	92
Signal Control	151	57	169	70	189	75	251	97

Wakefield								
Type	With	With dropped kerbs, tactile paving and tactile indicators						
-	2002	2/03	2006/07 2		200	7/08	2008/09	
	No.	%	No.	%	No.	%	No	%
Pelican/Puffin	63	80	97	99	100	99	105	100
Signal Control	31	42	65	95	69	96	72	97

Table 3.5 Provision at Controlled Crossings – 2002/03 to 2007/08

3.21 The progress of upgrading of controlled crossings and installation of new crossings will be reflected in future reporting.

Background Indicator A8: Age of Bus Fleet

3.22 The age of the bus fleet is monitored through web based data set against a national target of 8 years. The returns presented in Table 3.6 shows the age of bus fleet in West Yorkshire since 2004.

	March	March	March	March	March	March
	2004	2005	2006	2007	2008	2009
Age of bus fleet	9.4	8.6	8.6	8.7	9.0	8.7

Table 3.6 Age of Bus Fleet

3.23 The age of the bus fleet will continue to be monitored annually.

CHAPTER 4 TACKLING CONGESTION

Introduction

4.1 The following 17 indicators have been chosen to monitor our progress towards the "Tackling Congestion" strategy in LTP2. Progress towards LTP2 targets is measured using 4 mandatory and 4 local key indicators. The remaining 9 indicators are background trend indicators which will help assess overall progress for this key strategy area.

Mandatory Indicator C1: Average Journey Time Per Person Mile on Key Routes.

- 4.2 Table 4.1 below shows the 2005, 2006/07 and 2007/08 results for this indicator which is calculated by DfT from data collected on site (vehicle occupancies, bus journey times) and non stopping vehicle speeds from the Trafficmaster data base on 13 selected routes across West Yorkshire which are shown in Figure 4.1.
- 4.3 The table shows a slight improvement of person journey time, which means we are currently ahead of our trajectory to meet the 2010/11 target. Results for 2008/09 are not yet available from DfT. Note that the data contained in the table differs that previously reported following revisions to the calculations by DfT necessitated by the change of data supplier.

	T	г 💶 .
Year	Av. Journey time	Trajectory towards
	(mins & secs) per	2010/11 Target
	person mile	
2004/05 &	4'03"	
2005/06		
(Base)		
2006/07	4'07"	4'06"
2007/08	4'06"	4'09"
2008/09	Not yet available	4'16"
2009/10		4'18"
2010/11		4'20"
(target)		

Table 4.1 Average Journey Time Per Person Mile on Key Routes.

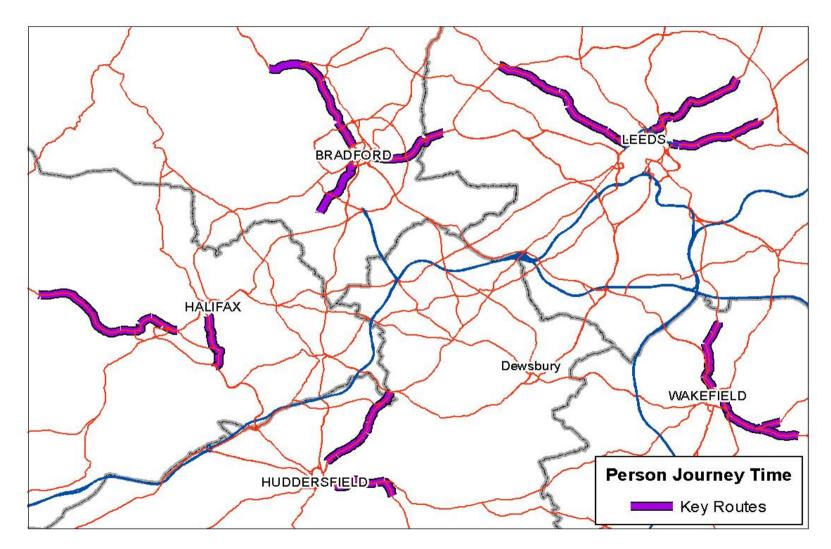


Figure 4.1 Key Routes Used for Monitoring Person Journey Time Indicator

Mandatory Indicator C2: Town/City Centre Morning Peak Period Traffic Flows

- 4.4 Traffic flows throughout West Yorkshire have been monitored since 1979 as part of the Long Term Monitoring Programme (LTMP). Automatic traffic counters have been used to collect data on cordons around the main urban areas on a two year programme. Figures 4.2 to 4.6 show the locations of the cordons around the five main centres of Bradford, Halifax, Huddersfield, Leeds and Wakefield.
- 4.5 Data are presented for the morning peak period (0700 to 1000) in Tables 4.2 to 4.6 and show the changes in traffic flow since 2000/01 with the 2003/04 baseline for LTP2 highlighted. Flows can change markedly from year to year as a result of network changes, new developments and the method of data collection, hence a 3 year moving average is a more robust indicator of the underlying trend and this will be reported as sufficient data becomes available.

Year	AM Peak Period Traffic Flow (0700 to 1000)	Peak Period Index (2003=100)
2001	46,790	103
2003	45,530	100
2005	46,370	102
2006	1	-
2007	44,470	98
2008	42,980	94
% Growth 2003 - 2008	- 5.	6%

Table 4.2 Bradford Central Cordon - AM Peak Period Inbound Traffic Flows

Year	AM Peak Period Traffic Flow (0700 to 1000)	Peak Period Index (2003=100)			
2001	22,090	94			
2003	23,580	100			
2005	23,450	99			
2006	-				
2007	23,970	102			
2008	23,850	101			
% Growth 2003 - 2008	+ 1.1%				

Table 4.3 Halifax Central Cordon - AM Peak Period Inbound Traffic Flows

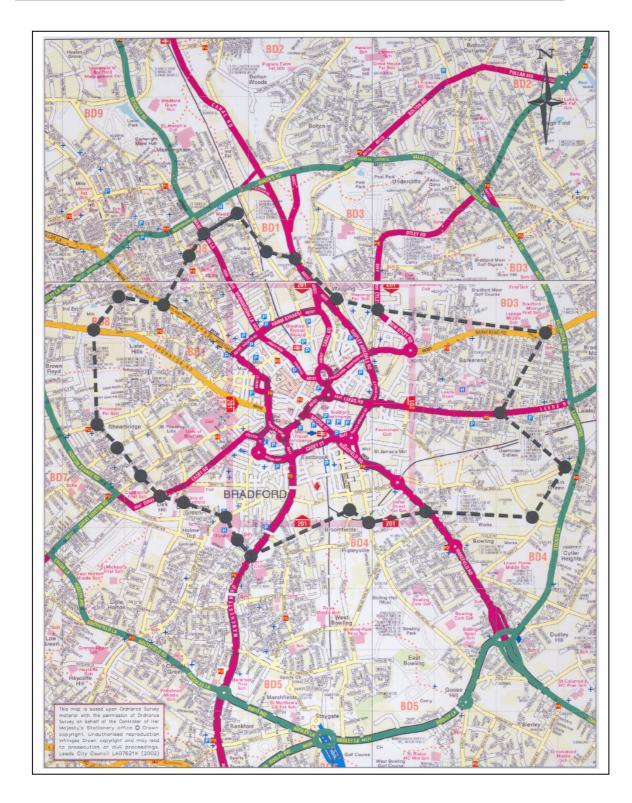


Figure 4.2 Traffic Counting Cordon : Central Bradford

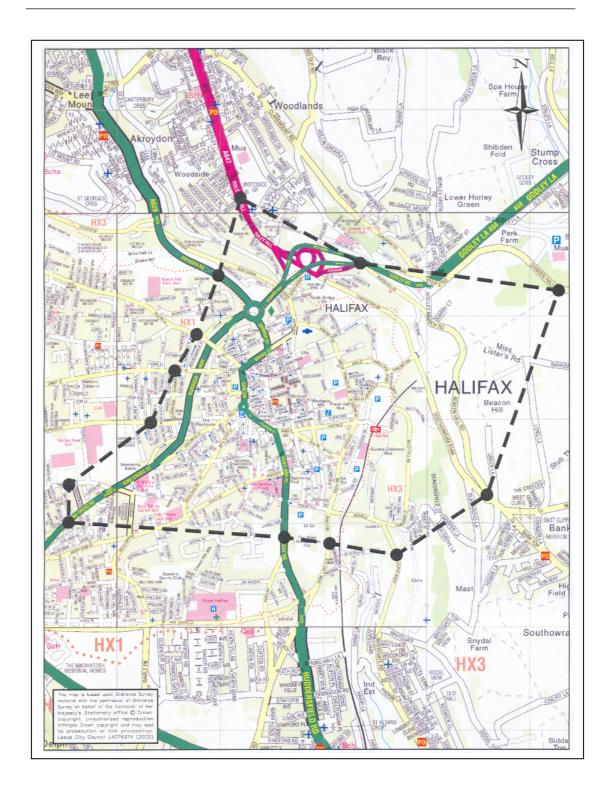


Figure 4.3 Traffic Counting Cordon : Central Halifax

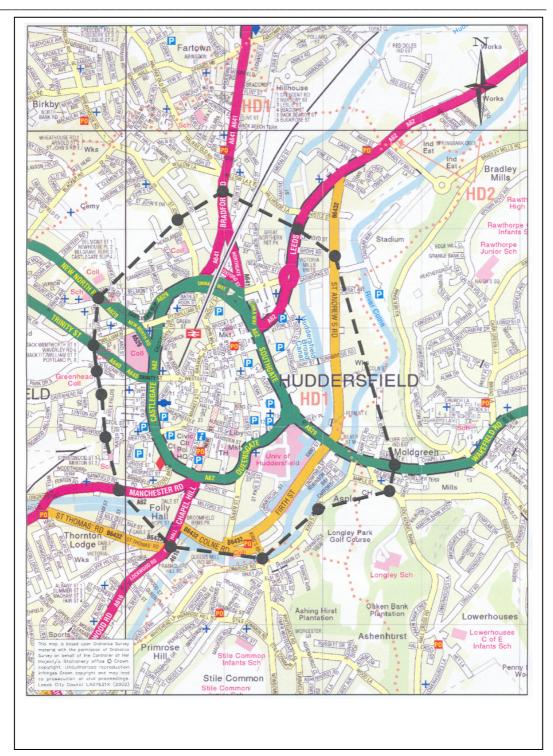


Figure 4.4 Traffic Counting Cordon: Central Huddersfield.

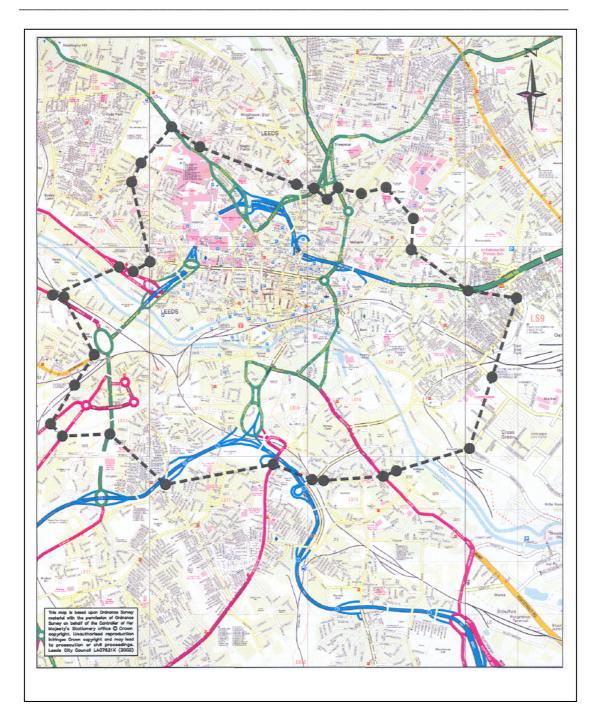


Figure 4.5 Traffic Counting Cordon: Central Leeds.

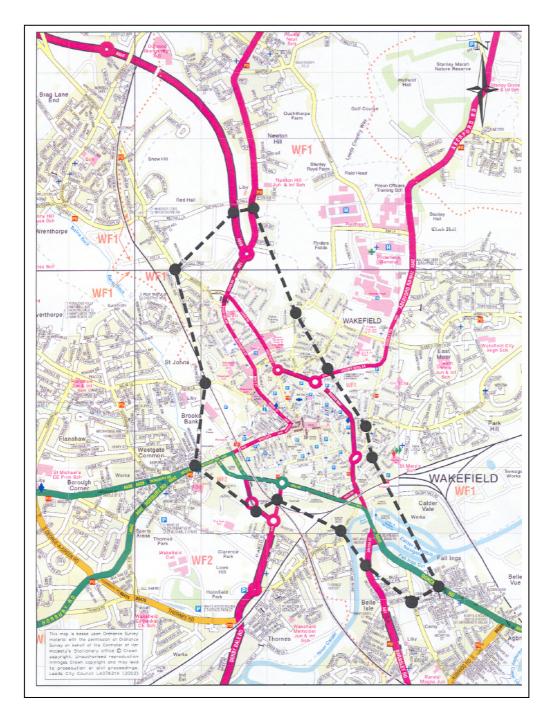


Figure 4.6 Traffic Counting Cordon: Central Wakefield.

Year	AM Peak Period Traffic Flow (0700 to 1000)	Peak Period Index (2003=100)
2001	` 31,220 ´	100
2003	31,110	100
2005	31,380	101
2006		
2007	32,390	104
2008	30,320	97
% Growth 2003 - 2008	-2.	5%

Table 4.4 Huddersfield Central Cordon – AM Peak Period Inbound Traffic Flows

Year	AM Peak Period Traffic Flow (0700 to 1000)	Peak Period Index (2004=100)
2000	93,540	95
2002	96,990	99
2004	98,210	100
2006	97,030	99
2007	95,190	97
2008	93,770	95
% Growth 2004 – 2008	-4.	5%

Table 4.5 Leeds Central Cordon – AM Peak Period Inbound Traffic Flows

Year	AM Peak Period Traffic Flow (0700 to 1000)	Peak Period Index (2004=100)
2000	26,340	93
2002	29,580	105
2004	28,230	100
2006	28,160	100
2007	29,310	104
2008	28,610	101
% Growth 2004– 2008	+1.	3%

Table 4.6 Wakefield Central Cordon – AM Peak Period Inbound Traffic Flows

4.6 Traffic flows have fallen in all centres over the past year leaving us on track to exceed our LTP2 targets. Although difficult to attribute this drop to any one factor it is reasonable to assume that LTP strategies and the economic recession will have had an impact.

Mandatory Indicator C3: Mode Share For Journeys to School

- 4.7 Data on mode share of journeys to school had been collected for several years using a school administered "Hands up" survey and coordinated by Regional school travel Plan advisors. The WYLTP Monitoring Group had identified several issues with the statistical validity of this data, not the least being the difficulty in obtaining reliable year on year comparisons.
- 4.8 However, DfT and DCSF introduced a question on usual mode of travel to school in the annual School Census survey and revised guidance from DfT indicated that this data source should be used for this indicator with 2006/07 as the base line.
- 4.9 Collection of mode share data is mandatory for schools with travel plans but only voluntary for those schools without travel plans. DfT requirements are that the indicator should include data from schools with travel plans, and 50% of schools without travel plans.
- 4.10 DfT supply a clean dataset from the survey which should be used to monitor this mandatory indicator. This dataset excludes those children under 5 and over 15 and those pupils who did not respond to the mode of travel question.
- 4.11 Table 4.7 below summarises the usual mode of travel for over 270,000 pupils aged 5 to 15 in West Yorkshire in 2008/09.

Usual Mode of Travel					
Car 1	81,124	29.8			
Car Share ²	8,555	3.1			
Public	47,215	17.4			
Transport 3					
Walking	132,897	48.9			
Cycling	1,101	0.4			
Other	1,024	0.4			
Total 4	271,916	100			

Source: 2008/09 School Census Returns.

Notes:

- 1. includes vans and taxis
- 2. car share is defined by DfT/DCSF as "travel in a car with a child/children from a different household
- 3. includes service buses, dedicated school buses, other buses and train
- 4. only includes pupils for which mode of travel data has been supplied.

Table 4.7 Usual Mode of Travel to School, All Pupils Aged 5 to 15 West Yorkshire 2008/09.

4.12 Changes in car mode share, excluding those who car share, since the base year and progress towards the LTP2 target are shown in Table 4.8 below. As the proportion of car mode share continues to fall consideration will be given to stretching the target for the remaining years of LTP2.

YEAR	Car Mode	Target/
	Share (%) ¹	Milestones
2006/07	30.6	30.6
2007/08	30.5	30.6
2008/09	29.8	30.6
2009/10		30.6
2010/11		30.6

Note: 1. Excludes car share

Table 4.8 Travel to School: Changes in Car Mode Share and Progress Towards
Target

Mandatory Indicator C4: Public Transport (Bus) Patronage (BVPI 102)

4.13 Patronage of bus services in West Yorkshire is monitored through use of a continuous on board survey. This data is extrapolated to provide annual figures for countrywide bus patronage as presented in Table 4.9. The data is shown indexed to the LTP2 base year of 2003/04 and shows a slight increase on last years total, but below the trajectory needed to achieve the LTP2 target

	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	2005/ 2006	2006/ 2007	2007/ 2008	2008/ 2009
Passenger Journeys per year (millions)	202.0	203.6	199.1	195.7	194.8	196.9	192.6	195.0
Index to 2003/04	101.5	102.3	100	98.3	97.7	98.9	96.7	97.9

Table 4.9 West Yorkshire Bus Patronage, 2000/01 to 2008/09

- 4.14 The growth in bus use of concessionary travellers has been in line with expectations. This growth has been largely off-set by a decline in the number of fare paying passengers.
- 4.15 Whilst operators cite the recession as the cause of passenger loss, Metro believes that resistance to sustained above inflation fare increases is also a significant factor. Major operators in West Yorkshire implemented significant fares increases in January 2008 and July 2008, citing increased fuel costs as the reasons. The WYTPA criticised the July increase as being unnecessary (as major operators were at that time isolated from the increased cost through hedging) and counterproductive as it under-mined an opportunity to grow bus patronage through mode switch when pump prices were at record high levels. Major operators have also

reduced service levels in 2009 in response to falling demand and, in some cases, the desire to maintain former profit margins. There is little prospect for short-term growth in the number of fare-paying passengers and a risk of further decline unless alternative approaches to the current cycle of fare increases and service reductions are developed.

Local Key Indicator C5: AM Peak Cycle Trips to Centres of Leeds, Wakefield and Halifax

4.16 Cycle trips crossing the central cordons of Halifax, Leeds and Wakefield are monitored as part of the morning peak modal split surveys (see Key Indicator C6). Data is collected on three separate weekdays and cycles are recorded on road, on the footway and off road at the cordon points.

Centre	Number of	Number of Cycles in Morning Peak Period (0730-0930)									
	(index ag	(index against base of 2005)									
	2000	2002	2004	2005	2006	2007	2008	2009			
Halifax	52	51	54	53	36	57	65	61			
				(100)	(68)	(108)	(123)	(115)			
Leeds	441	430	571	627	727	778	967	1064			
				(100)	(116)	(124)	(154)	(170)			
Wakefield	155	141	72	105	81	78	105	152			
				(100)	(77)	(74)	(100)	(145)			

Table 4.10 Morning Peak Period Cycle Flows to Central Halifax, Leeds and Wakefield

4.17 All three centres have recorded increases in the number of peak period cyclists since 2004. The table indicates that the target of a 20% increase by 2010/11 has already been achieved. However, care must be taken when interpreting this trend as cycling statistics can be volatile.

Local Key Indicator C6: AM Peak Period Modal Split to Main Urban Centres

4.18 In addition to absolute volumes, modal split is recognised as a key indicator of the impact of the Transport Plan measures. Previously the main source of this data was the national census which, with a ten-year cycle, is useful for assessing long-term trends. To further refine the monitoring of mode choice, and to establish a robust baseline against which future changes could be measured, local modal split surveys were carried out in major centres during 1998 and further surveys undertaken in 1999 at a number of other district centres.

- 4.19 The surveys recorded persons travelling in private vehicles, on foot and by bicycle and also those travelling by bus. Until 2009 rail patronage data were obtained from Metro manual counts. In 2009 the methodology was changed to utilise the Automatic Passenger Count (APC) data supplied by the main operating companies supplemented by manual counts where necessary. As such the 2009 data is not directly comparable with previous years.
- 4.20 The survey points coincided with those used for the central cordon automatic traffic count programme (see Figures 4.2 to 4.6) with additional sites added to these cordons to record persons walking or cycling on off-road routes where applicable.
- 4.21 Following a successful pilot in Leeds in 2004 ¹ a more statistically robust monitoring regime was introduced across West Yorkshire in 2005 and mode split counts were undertaken in the main centres over 4 days for the morning peak period (0730-0930) inbound to the city centre which enables us to be 95% sure that observed changes of between 0.5% and 1.0% in mode share are statistically significant At the same time the frequency of data collection was increased to annually.
- 4.22 Tables 4.11 to 4.15 below show the results of the modal split surveys in the main centres since 2000. Issues concerning the methodology used to collect rail patronage data means the 2009 statistics are not directly comparable with previous years.
- 4.23 Changes will be reported against the LTP2 baseline of 2004. Note the figures in the cells may not total 100 due to rounding.

Year	Total persons						
	Crossing cordon	Walk	Cycle	Motorcycle	Car	Bus	Train
2004	49,898	4	<1	<1	74	16	5
2005	50,123	4	<1	<1	74	16	6
2006	49,270	4.2	0.2	0.3	73.0	16.2	6.1
2007	50,166	4.6	0.2	0.3	71.9	15.9	7.1
2008	48,870	4.6	0.2	0.3	71.3	17.1	6.4
2009	47,917	4.7	0.3	0.3	71.5	16.0	7.2

Table 4.11 Modal Split – AM Peak (0730-0930) Inbound to Bradford : 2004 - 2009

Year	Total persons % Modal Split							
	Crossing cordon	Walk	Cycle	Motorcycle	Car	Bus	Train	
2004	25,318	4	<1	<1	73	18	4	
2005	26,768	5	<1	<1	74	17	4	
2006	26,000	4.0	0.1	0.4	73.5	17.1	4.9	
2007	26,970	4.4	0.2	0.4	69.1	21.1	4.8	
2008	25,940	4.7	0.3	0.5	68.0	20.7	5.9	
2009	26,144	5.1	0.2	0.5	68.0	20.8	5.3	

Table 4.12 Modal Split – AM Peak (0730-0930) Inbound to Halifax : 2004 - 2009

¹ Estimating Confidence Intervals for Transport Mode Share : Clark.S & McKimm J : Journal of Transportation and Statistics, Vol 8, No.2 : 2005

Year	Total persons % Modal Split							
	Crossing cordon	Walk	Cycle	Motorcycle	Car	Bus	Train	
2004	34,027	5.9	0.2	0.4	66.1	21.9	5.5	
2005	33,914	6.6	0.3	0.4	63.9	23.2	5.6	
2006	34,581	5.7	0.3	0.4	62.4	22.8	8.4	
2007	34,852	6.5	0.4	0.4	61.1	23.2	8.5	
2008	36,542	6.3	0.4	0.4	59.1	25.7	8.1	
2009 *	36,189	6.0	0.3	0.4	63.8	21.3	8.1	

^{*} change in survey methodology for rail means 2009 data not directly comparable with previous years Table 4.13 Modal Split – AM Peak (0730-0930) Inbound to Huddersfield :2004 - 2009

Year	Total persons	% Moda	al Split	Split				
	Crossing cordon	Walk	Cycle	Motorcycle	Car	Bus	Train	
2004	120,400	3.1	0.5	0.5	57.7	27.8	10.3	
2005	121,183	3.5	0.5	0.5	57.3	26.0	12.2	
2006	122,646	3.5	0.6	0.5	56.4	25.9	13.2	
2007	114,831	3.1	0.7	0.5	56.4	24.3	15.0	
2008	113,568	2.9	0.9	0.5	55.3	23.7	16.7	
2009	115,661	3.2	0.9	0.5	55.7	22,8	16.9	

Table 4.14 Modal Split – AM Peak (0730-0930) Inbound to Leeds :2004 - 2009

Year	Total persons	Total persons							
	Crossing cordon	Walk	Cycle	Motorcycle	Car	Bus	Train		
2004	33,570	2	<1	1	73	16	9		
2005	38,399	3	<1	<1	72	16	9		
2006	34,140	3.8	0.3	0.3	72.6	11.7	11.3		
2007	28,339	3.4	0.3	0.3	68.2	12.8	15.0		
2008	28,747	3.7	0.4	0.5	69.6	12.6	13.2		
2009	30,431	4.3	0.5	0.5	75.5+	11.2	8.0		

^{*} change in survey methodology for rail means 2009 data not directly comparable with previous years + 2009 figure includes HGV's

Table 4.15 Modal Split – AM Peak (0730-0930) Inbound to Wakefield :2004 - 2009

Local Key Indicator C7: AM Peak Period Rail Patronage to Leeds

4.24 Table 4.16 below shows the number of passengers arriving at Leeds station during the weekday morning peak period (0730-0930) since 2003.

	2003	2004	2005	2006	2007	2008	2009
Passengers	9,585	10,209	11,863	16,244	17,196	18,915	19,547

Table 4.16 AM Peak Period Rail Patronage to Leeds, 2003 to 2009

4.24 Passenger totals are continuing to grow year-on-year. However, this is at a much slower rate then in previous years with only a 3.3% increase between 2008-2009.

4.25 This years counts made use of Automatic Passenger Counters (APC) which are installed on Northern and First TransPennine trains. To account for the differences between APC data and Manual Counts, an uplift factor was applied to the APC data to bring it line with the Manual Counts.

Local Key Indicator C8 : Quality Bus Corridor Patronage

4.26 Patronage figures have been monitored on Quality Bus Corridors (QBC) and the trend in passenger numbers has been compared with that on the network as a whole as shown in Table 4.17.

Year	QBC Trend	QBC Average	WY Trend - %
		Weekly	change in total
		Patronage	patronage
2004/05	2%	-	-1.71%
2005/06	-1.35%	-	-0.46%
2006/07	2.15%	-	1.08%
2007/08 (New			
Base Year)	-	168,941 (-)	-2.18%
2008/09		177,121 (+4.8%)	1.25%

Table 4. 17 Bus Patronage on Quality Bus Corridors Compared With West Yorkshire Trend

4.27 The table shows that patronage growth on Quality Bus corridors continues to exceed that on the network as a whole.

Background Indicator C9: Peak Period Journey Time Variability on Key Routes

4.28 This indicator is under development.

Background Indicator C10 : Proportion of Network Below Reference Speed in Morning Peak Period.

4.29 The following table, 4.18, shows the percentage of the primary urban network operating below different proportions the speed limit in the morning peak. The statistics are derived from C-Jams data supplied by DfT .

	Proportion (Proportion of network operating below x% of speed limit (cumulative)								
percentage	Bradford	Calderdale	Kirklees	Leeds	Wakefield	West				
of Speed						Yorkshire				
Limit										
50%	0.29	0.24	0.21	0.32	0.15	0.28				
60%	0.39	0.35	0.30	0.44	0.23	0.39				
70%	0.52	0.45	0.40	0.56	0.30	0.51				
80%	0.66	0.60	0.53	0.69	0.38	0.65				
90%	0.81	0.71	0.66	0.83	0.47	0.79				
100%	0.92	0.83	0.75	0.92	0.57	0.90				

Table 4.18 Proportion of Primary Urban Network Operating Below Set Percentages of Speed Limit, 2008

4.30 For the purposes of assessing network efficiency, a figure of 70% of the speed limit has been taken as a benchmark for LTP2. The table shows that just over half of the network is operating at or below this level, and over one quarter of the network is operating at less than 50% of the posted speed limit. Table 4.19 shows changes relative to the benchmark of 70% since 2003.

	Proportion	Proportion of network operating below 70% of speed limit								
Year	Bradford	Calderdale	Kirklees	Leeds	Wakefield	West				
						Yorkshire				
2003	67	50	63	68	52	63				
2005	70	62	71	75	56	69				
2006	70	62	70	74	60	69				
	Ch	nange from <i>i</i> T	IS to Traffic	master d	ata					
2007	50	48	47	55	27	50				
2008	52	45	40	56	30	51				

Table 4.19 Proportion of Primary Urban Network Operating Below 70% of Speed Limit, 2003 to 2008

4.31 Whilst these tables would appear to show a greatly improved situation on that published in previous versions of this report, a number of points need to be kept in mind. Firstly the data source from these earlier tables was iTIS car only data whilst the current tables are based on Trafficmaster all vehicle data. The use of all vehicle data was thought appropriate with Trafficmaster data since it better represents the true mix of vehicle types, whilst the iTIS data was heavily skewed towards heavy goods vehicles. Secondly the Trafficmaster network is much more highly segmented than the equivalent iTIS network (each iTIS link is approximately made up of 9 or 10 Trafficmaster links) leading to a greater range of vehicle speeds on the Trafficmaster links than the corresponding iTIS links.

Background Indicator C11: Peak Spreading Index

- 4.32 Traffic flows are collected using automatic counters on cordons around the main urban centres in west Yorkshire , (see Mandatory Indicator C2 above and Figures 4.2 to 4.6)
- 4.33 By examining the ratio of peak hour to peak period flows through time an understanding of the extent of peak spreading can be gained.² A fall in the value of this ratio would illustrate peak spreading. Peak spreading can result from motorists choosing to travel earlier (or later) as a result in changes in work practices or being forced to travel earlier (or later) due to congestion. Tables 4.20 to 4.24 show trends in this index since 1999/2000 with the LTP2 baseline of 2003/04 highlighted.

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² Hounsall, NB: Transport Planning Systems, 1991, Vol.1 No.3

YEAR **AM Peak Period Inbound Traffic Flows** 0700 - 1000 0800 - 0900 Ratio (P1) (P2) P2/P1 1999 45,600 18,550 0.406 2001 46,790 18,690 0.399 2003 0.401 45,530 18,240 2005 46,370 18,230 0.393 2007 44,470 17,260 0.388 2008 42,980 16,700 0.388

Table 4.20 Bradford Central Cordon: Peak Spreading Ratio, 1999-2008

YEAR	AM Peak Period Inbound Traffic Flows					
	0700 - 1000 (P1)	0800 - 0900 (P2)	Ratio P2/P1			
1999	22,890	9,360	0.409			
2001	22,090	8,970	0.406			
2003	23,580	9,480	0.402			
2005	23,450	9,330	0.398			
2007	23,970	9,380	0.391			
2008	25,440	9,920	0.390			

Table 4.21 Halifax Central Cordon: Peak Spreading Ratio 1999-2008

YEAR	AM Pe Inbound		
	0700 - 1000 (P1)	0800 - 0900 (P2)	Ratio P2/P1
1999	31,490	12,280	0.390
2001	31,220	12,230	0.392
2003	31,110	12,280	0.395
2005	31,380	12,100	0.386
2007	32,390	12,620	0.390
2008	30,320	11,430	0.377

Table 4.22 Huddersfield Central Cordon : Peak Spreading Ratio 1999-2008

YEAR	AM Pe Inbound		
	0700 - 1000 (P1)	0800 - 0900 (P2)	Ratio P2/P1
2000	93,540	35,790	0.383
2002	96,990	36,840	0.380
2004	98,280	36,560	0.372
2006	97,030	35,700	0.368
2007	95,190	34,140	0.359
2008	93,770	33,950	0.362

Table 4.23 Leeds Central Cordon: Peak Spreading Ratio 2000-2008

YEAR	AM Peak Period Inbound Traffic Flows						
	0700 - 1000 (P1)	0800 - 0900 (P2)	Ratio P2/P1				
2000	26,340	10,380	0.394				
2002	29,580	11,750	0.397				
2004	28,230	10,840	0.384				
2006	29,150	11,330	0.389				
2007	29,310	11,140	0.380				
2008	28,610	10,920	0.382				

Table 4.24 Wakefield Central Cordon: Peak Spreading Ratio 2000-2008

4.34 Traffic flows crossing the central cordons of the main centres are now counted annually and changes will be reported against the LTP2 baseline of 2003/04

Background indicator C12: Morning Peak Period Car Occupancy

4.35 As part of the morning peak period mode split surveys (see Key Indicator C6 above) the opportunity was taken to record the occupancy of cars and taxis crossing the cordons which will allow trends in vehicle occupancy to be observed in future years. The results of the occupancy surveys from 2006 are presented in Table 4.25.

	2006		2007		2008		2009	
	Ave.	% single						
	Occ.	occ.	Occ.	occ	Occ	occ	Occ	occ
Bradford	1.28	77.5	1.29	76.9	1.28	77.5	1.28	77.4
Halifax	1.28	78.7	1.27	77.3	1.25	79.3	1.28	77.3
Huddersfield	1.26		1.24		1.24		1.24	
Leeds	1.23	80.3	1.22	80.1	1.24	79.3	1.24	80.1
Wakefield	1.26	78.0	1.27	76.0	1.31	74.5	1.29	74.5

Table 4.25 Car Occupancy in Main Centres, 2006 to 2009

4.36 Table 4.26 shows the changes in average car occupancy for the major centres since 2005.

Centre	Time Period	Direction	Average Car Occupancy			ancy
			2005	2007	2008	2009
Bradford	am peak	Inbound	1.28	1.29	1.28	1.28
Halifax	am peak	Inbound	1.29	1.27	1.25	na
Huddersfield	am peak	Inbound	1.27	1.24	1.24	1.24
Leeds	am peak	Inbound	1.23	1.22	1.24	1.24
Wakefield	am peak	Inbound	1.29	1.27	1.31	1.29

Table 4.26 Average Car Occupancy Changes, 2005 to 2009

- 4.37 Implementation of Travel Plans, travel awareness initiatives, car sharing initiatives, including High Occupancy Lanes seek to encourage greater car occupancy. It is unlikely that there will be significant change in the short term but the overall impact of such measures should lead to an increase in car sharing and the use of public transport in the future.
- 4.38 Changes in this indicator will be reported annually against a 2005 baseline.

Background Indicator C13: Mode Share for Travel to Work

- 4.39 The Travel to Work survey initiated by the West Yorkshire Travel Plan Officers Group in 2004 takes place annually in March. In 2009 a total of over 43,500 employees took part from companies developing or implementing travel plans across the county.
- 4.40 Table 4.27 shows changes in mode share for the journey to work since 2004 which shows a rise in the numbers travelling to work by public transport and a slight increase in those commuting alone by car. Increases in the numbers cycling or walking to work were recorded.

Year	Sample		% by mode								
	Size		Car			Bus	Train	PTW	Walk	Cycle	Other/
		Alone#	With	share	Lift						not
			pupil		*						given
			#								
2004		45	3	14	-	16	9	1	7	2	3
2005	24,000	45	5	13	-	17	10	1	6	1	2
2006	36,000	46	4	15		15	10	1	6	2	1
2007	38,485	51		11	2	15	10	1	8	2	0
2008	39,498	50.4		11.8	1.3	15.8	10.9	0.7	6.2	1.8	1.5
2009	43,510	50.8		11.0	1.2	14.9	11.3	8.0	6.6	2.6	0.8

merged in 2007

Table 4.27 West Yorkshire Travel to Work Survey: Mode Share 2004 - 2009

^{*} given a lift by a driver who then returns home

Background Indicator C14: Travel Distance to Work

4.41 Table 4.28 shows the changes in the distance travelled to work in West Yorkshire taken from the 1991 and 2001 Censuses. The table shows a 39% increase in the distance travelled over the 10 year period.

	1991			2001		1991-	
	Workplace	Workplace	Total	Workplace	Workplace	Total	2001
	Pop ^{n.}	Distance	Km	Pop ^{n.}	Distance	Km	Total
							km %
							Change
Bradford	166,810	6.8	1,135,976	173,454	8.4	1,457,014	28
Calderdale	70,100	6.1	429,012	72,682	8.0	581,456	36
Kirklees	121,270	6.5	793,106	131,483	8.1	1,065,012	34
Leeds	291,180	9.4	2,745,827	343,799	11.7	4,022,448	46
Wakefield	112,680	7.7	866,509	117,202	9.7	1,136,859	31
West	762,040	7.8	5,966,733	838,620	9.9	8,302,338	39
Yorkshire							

Excludes those working at or from home

Table 4.28 Distance Travelled to Work in West Yorkshire, 1991 and 2001

Background Indicator C15: Generalised Costs for Private and Public Transport

- 4.42 In the absence of GPS data for bus journey times, comparable car and bus data from the historic manual surveys (1998-2004) has been used to estimate indicative generalised commuting costs for the five main centres. Three costs have been calculated for each centre:
 - Car commuter with free parking at place of work;
 - Car commuter using Council controlled long stay off street parking;
 - Bus commuter using an annual Countywide Bus MetroCard³.
- 4.43 The generalised costs have been calculated for each centre based on the average commuting distance for car drivers derived from the 2001 census. The values are considerably greater than those used in previous reports, reflecting a general increase in travel distances and the relatively longer distances travelled by car drivers than the average for all modes. Nevertheless, the relative results remain very similar to last year's calculation.
- 4.44 Table 4.29 shows the estimated indicative generalised costs for each of the district centres where journey time data have been collected. These are also shown graphically in Figure 4.7.

³ Figure still used, despite Metro being able to calculate average bus fares, due to its use in the Saturn Transport Model.

Generalised cost (pence/day) Centre Distance (km) **Parking** Car driver Car driver (free parking) charge (p) (pay to park) Bus user Bradford 12.97 2.01 751 1171 1453 Halifax 12.40 2.80 631 1129 1334 Huddersfield 11.41 2.80 612 1111 1283 Leeds 5.80 18.79 993 1792 1693 Wakefield 4.00 748 1453 14.21 1367

Table 4.29 Estimated Generalised Central Area Commuting Costs 2006

(Based on average car driver journey to work distance to each main centre from the 2001 census)

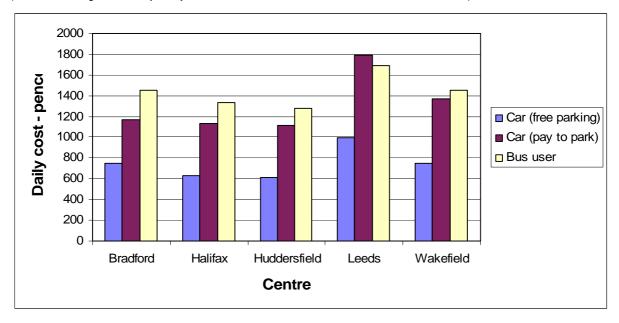


Figure 4.7 Estimated Generalised Central Area Commuting Costs 2006

(Based on average car driver journey to work distance to each main centre from the 2001 census)

- 4.45 Aside from the changes in assumed journey lengths, the principal changes from 2005 are that petrol costs have risen by 10% and bus fares (using an annual MetroCard) by 40% by 2009.
- Leeds remains the only centre where the cost of commuting by car (for those who have to pay) is greater than the cost of travel by bus. However, the latest increase in the cost of parking in Wakefield has reduced the difference between bus and car travel significantly here.

- 4.47 It is clear from the generalised cost calculations that commuters who have access to a free workplace parking space (or free on street parking) have a real cost advantage over those who have to pay to park or use public transport.
- 4.48 For shorter distance commuters the penalties against bus use are proportionately greater because of the amount of walking and waiting time involved in their journey and fare structure. Nevertheless, census data shows that average car driver commuting distances are significantly greater than for bus users (around twice as long for trips to the main centres) reflecting a greater dispersal of origins.
- 4.49 The impact of additional bus priority measures should, over time, increase average bus speeds in the peaks. However, it is likely that reducing boarding times at stops by the use of prepaid tickets and smartcard technology will have a potentially greater impact throughout the day.
- 4.50 Petrol price increases, re-allocation of road space and increased parking charges will increase car user costs. However, the use of other measures to account for the social costs of car usage, such as road pricing or workplace parking charges, may also be required to achieve significant levels of modal shift.
- 4.51 The availability of GPS data as the basis of vehicle journey time information will enable a better picture of year on year changes to be derived. However, to establish the overall picture comparable vehicle GPS data needs to be taken into account.

Background Indicator C16: The Cost of Travel

- 4.52 The cost of travel has a direct influence on people's mode choice. This background indicator gives information on the changes in the cost of travel by car and public transport at both the national and local levels since 1974.
- 4.53 National changes in the cost of travel by car and public transport between 1974 and 2007 (the latest year for which data is available) are shown in Figure 4.8. This shows that, after allowing for the effects of inflation:
 - the overall cost of travel by car has increased by 5%
 - petrol prices have increased by 45%
 - the cost of travel by bus increased by 118%
 - rail fares increased by 132% over the same period

- Figure 4.9 shows real changes in the cost of transport locally since 1985. The figures show that;
 - bus fares have increased by 51%⁴.
 - rail fares have increased by 132%⁵
 - In both cases this is greater than the rate of inflation
 - All motoring costs have decreased each year since 2000

⁴ Based on cost of annual Bus only MetroCard. ⁵ Based on cost of annual Rail Z1-5 MetroCard.

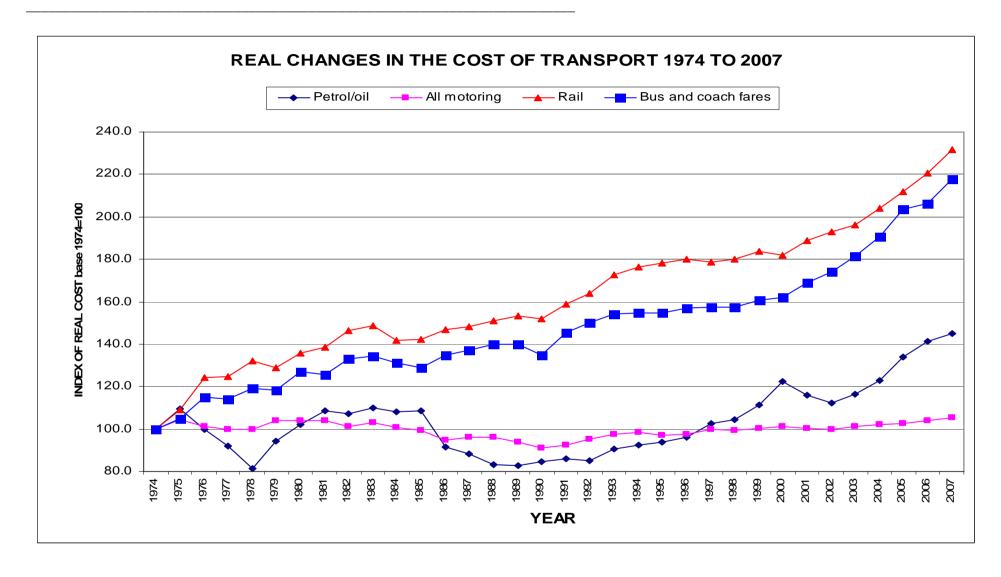


Figure 4.8 Change in National Transport Costs 1974 to 2007

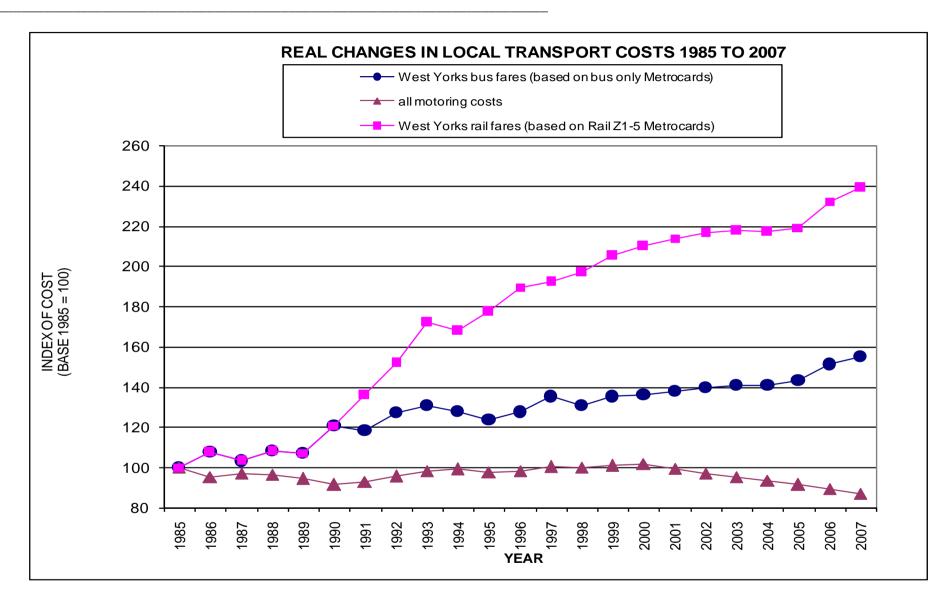


Figure 4.9. Real Changes in Local Transport Costs 1985 to 2007.

Background Indicator C17: All Day Commuter Parking Supply and Costs

4.55 It is widely accepted that control of all day commuter parking is a powerful demand management tool. In past years, there has been no common definition, which has made it difficult to assess the relative effectiveness of measures in the different centres. For consistency, the following definition has been agreed for LTP monitoring purposes and is used for all centres:-

"All day commuter spaces are defined as those where the maximum stay is greater than 8 hours, or where the cost of parking for more than 8 hours is less than 1.5 times the average cost of council off street long stay parking for an equal duration".

4.56 Parking inventories have been conducted in all major centres to provide baseline data against which future changes can be measured. Table 4.30 shows the relative size of the parking study areas for each Centre, whilst inventory data are presented in Table 4.31.

Centre	Approximate radius of parking survey area (Metres)
Bradford	1150
Halifax	500
Huddersfield	900
Leeds	700
Wakefield	750

Table 4.30 Size of Parking Survey Areas

Parking	Туре	Bradford	Halifax	Huddersfield	Leeds	Wakefield **
Public	Council	1725	356	1,813	2132	618
Short Stay	Private	3900	484	1,438	3057	197
	Total	5625	840	3,521	5180	815
	Council Free	5514	113	1,029	78	30
Public	Council Pay	862	723	2,527	1972	922
All Day	Private	1668	629	150	4872	1826
Commuter	Total	8064	1465	3,706	6922	2778
	Customer	3839	3194	1,953	1507	3509
Other	PNR	9970	2825	6,925	10415	2915
	Permit	998	1176	13,412	630	1550
Total		28,496	9500	17,157	24,654	11567

^{**} Major redevelopment is taking place in Wakefield Centre which will affect car parking supply. It will be necessary to rebase City centre area to take into account expansion into the Waterfront area and further surveys will not be carried out until this has been completed.

Table 4.31 Parking Inventory 2009

4.57 The progress made by the districts in raising parking charges is shown below in Table 4.32. This shows the average cost of council controlled all day commuter

parking, where charges are levied, and the % change in parking charges 2004 – March 2009. For LTP2 changes will be reported against a 2004 baseline.

Centre Cost for stay of 8 hours or more in council controlled car park (£)					% change 2004 -					
	2004	2005	2006	2007	2008	2009 (March)	2009			
Bradford	1.90	1.83	1.90	1.90	3.00	3.00	+58%			
Halifax	2.70	2.70	2.70	3.60	3.60	3.60	+33%			
Huddersfield	2.80	2.80	2.8	4.0	4.0	4.0	+43%			
Leeds	5.80	5.80	6.40	6.80	6.92	7.50	+29%			
Wakefield	4.00	4.00	4.50	5.00	5.00	5.00	+25%			

Table 4.32 Average Cost Of Council Controlled All Day Parking And Changes In Parking Charges 2004 – 2009 (Where Charges Apply)

- 4.58 If commuters are to be encouraged to use alternative modes to the car then the number of commuter parking spaces in centres should not increase and prices should increase at a greater rate than general inflation.
- 4.59 It must be recognised that the effect of any increases in long stay parking charges will be limited by the influence of both Private Non Residential (PNR) parking and, to a lesser extent, by privately operated publicly available long stay parking. This is clearly illustrated in Table 4.33 which shows the percentage of total all day parking provision in the main centres actually under council control.

Centre	% of all day parking under council control*
Bradford	64
Halifax	18
Huddersfield	80
Leeds	38
Wakefield	34

^{*} Spaces under council control are defined as public on street / off street spaces over which the council has regulatory authority.

Table 4.33 Percentage of Total All Day Parking Under Direct Council Control

4.60 Given the importance of parking control as a demand management tool comprehensive inventories of all parking spaces in major centres will be undertaken at least every 5 years and changes in parking charges will be reported annually.

CHAPTER 5 SAFER ROADS

Introduction

5.1 The following indicators have been chosen to monitor our progress towards the "Safer Roads" strategy in LTP2. Progress towards LTP2 targets will be measured using three mandatory and one local key indicator. The remaining indicators are background trend indicators which will help assess overall progress for this key strategy area.

Mandatory Indicator S1 : All Road User Casualty Trends

5.2 The number of people injured in road traffic accidents has been monitored for many years. Data is collected continuously on the numbers of fatal, serious and slight casualties throughout West Yorkshire via the West Yorkshire Police Stats 19 process. The casualty total peaked in 1998 and has been falling steadily since. The casualty total of 9,428 for 2008 is the lowest so far recorded in West Yorkshire since the County was formed in 1974. The reduction is not distributed evenly across the various road user groups, but is largely attributed to fewer car occupants with slight injuries. The year 2008 has recorded the lowest total for the number of people killed (71) on the roads of West Yorkshire. The number of serious casualties (1,020) has not, however, changed appreciably compared with earlier years. The long term trend in the number of killed or seriously injured casualties has been downward, but the rate of decline has slowed in recent years and practically levelled off over the last four years. The KSI total is therefore not keeping pace with the desired downward target trajectory because of the levelling out effect, and the County figure is disappointingly above the target line (see Table 5.1 and Figure 5.1).

Year	KSI *	Fatal	Serious	Slight	Total
1994 - 1998 average	1,484	115	1,369	11,391	12,876
2004	1,215	116	1,099	10,816	12,031
2005	1,085	99	986	9,714	10,803
2006	1,140	113	1,027	9,474	10,614
2007	1,132	103	1,029	8,850	9,982
2008	1,091	71	1,020	8,337	9,428
% Change 2008 cf.	-26%	-38%	-25%	-27%	-27%
1994 -1998 average					
% Change 2008 cf.	-4%	-31%	-1%	-6%	-6%
2007					

^{*} Killed or Seriously Injured

Table 5.1 West Yorkshire Road Casualty Trends by Severity, 1994/98-2008.

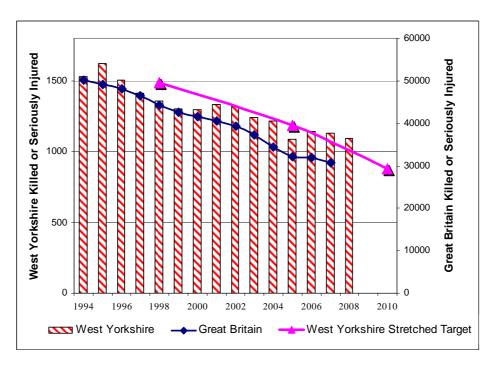


Figure 5.1 West Yorkshire KSI Casualty trend with 2010 target

Mandatory Indicator S2: Casualty Trends for Children

5.3 Following the disappointing increase in the total during 2007, the number of children killed or seriously injured fell in 2008. This fall in the total has brought the figure in line with the projected target, but only just, and the present short term trend is up (see Figure 5.2). The strong downward trend established during the 1990s has now fragmented and apart from some annual variability, there has not been any real progress made over the last three years. The downward trend reached its lowest point in 2005 and now that we are three years further on, the present trend is upward and therefore diverging away from the target.

Year	KSI *	Fatal	Serious	Slight	Total
1994 - 1998 average	273	13	260	1,732	2,004
2004	148	8	140	1,234	1,382
2005	133	4	129	1,064	1,197
2006	147	7	140	1,004	1,151
2007	175	5	170	999	1,174
2008	152	5	147	866	1,018
% Change 2008 cf.	-44%	-62%	-43%	-50%	-49%
1994 -1998 average					
% Change 2008 cf.	-13%	No	-14%	-13%	-13%
2007		change			

^{*} Killed or Seriously Injured

Table 5.2 West Yorkshire Road Casualty Trends for Children 1994/98 - 2008

350 8000 300 **Nest Yorkshire KSI Children** 250 **Britain KSI Children** 6000 200 4000 150 100 Great | 2000 50 2010

West Yorkshire → Great Britain → West Yorkshire Stretched Target

Figure 5.2 West Yorkshire KSI Child casualties with 2010 target

5.4 The largest proportion of child KSI casualties is associated with the pedestrian road user group, accounting for 76% of the total. The trend for this group since the low point of 2005 is disappointingly upward.

Mandatory Indicator S3: Slight Casualty Numbers

5.5 The number of slight casualties continued to fall throughout 2008 and the total of 8,337 is the lowest in twenty years. Compared with the average of the previous five years, the number of slight casualties is falling across all road user groups apart from pedal cycle. The largest reduction is associated with the car user group. The trends are shown in Table 5.3 and Figure 5.3.

Year	Slight Casualties
1994 to 1998 Average	11,391
2004	10,816
2005	9,718
2006	9,474
2007	8,850
2008	8,337
% Change 2008 cf.	-27%
1994 -1998 average	
% Change 2008 cf.	-6%
2007	

Table 5.3 West Yorkshire Slight Casualties 1994/98 - 2008

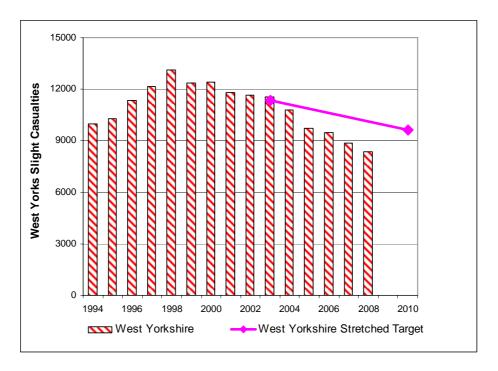


Figure 5.3 West Yorkshire Slight Casualties with 2010 Target

Local Key Indicator S4: Casualty Trends for Different Road User Groups

5.6 The number of casualties in the different priority groups has been monitored for a number of years and will continue to be monitored and changes reported annually. The West Yorkshire trends for different groups of road user are shown in Table 5.4 for KSI and in Figure 5.4 for all casualties.

Year	Pedestrians	Pedal	Motor	Car	Car
		Cyclists	Cyclists	Drivers	Passengers
1994 - 1998	525	106	158	388	232
average					
2004	360	78	228	300	194
2005	308	86	216	279	145
2006	314	86	196	326	169
2007	347	94	233	273	159
2008	364	84	198	272	133
% Change	-31%	-21%	+25%	-30%	-43%
2008 cf. 1994 -					
1998 average.					
% Change	+5%	-10%	-15%	No	-16%
2008 cf. 2007				change	

Table 5.4 West Yorkshire Killed and Seriously Injured (KSI) Trends for Different Road Users 1994/98-2008

5.7 The downward trend in the number of pedestrians killed or seriously injured stopped in 2005 / 2006. The total has now risen, disappointingly, for two successive years. This year's total of 364 is diverging away from the desired trajectory and if this present upward trend continues, the 2010 target will not be met. There is presently an upward trend in both adult and child pedestrian KSI casualties.

- 5.8 There were 485 pedal cycle casualties in 2008. Although the present trend in the total is flat, the distribution by age shows a different picture. Child cycle casualties continue to fall, whilst the number of adults is rising. The adult casualties are mainly associated with week days (18% at weekend), and 65% of the week day casualties are clustered with the morning and evening commuting periods.
- 5.9 The KSI motor cyclist total has fallen from the 'spike' of 2007, and is now back in line with earlier years. The net effect being that the KSI trend has currently flattened out.
- 5.10 The long term trend in car occupants (car driver plus passenger) killed or seriously injured from 1994 is still downward, although the current rate of progress is much less than it has been. The number of car users with slight injury continues to fall.

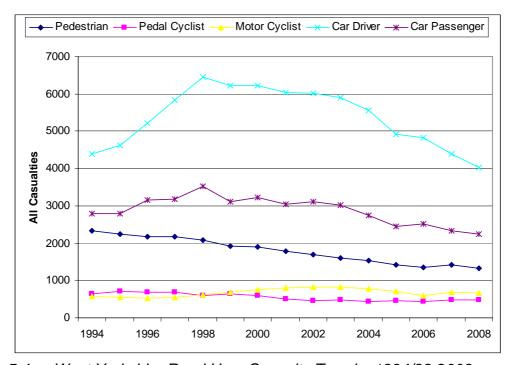


Figure 5.4 West Yorkshire Road User Casualty Trends 1994/98-2008

5.11 The West Yorkshire authorities will continue to monitor data on road casualties and report progress towards the LTP2 and National Targets in future monitoring reports.

Background Indicator S5: Town Centre Car Park Spaces with CCTV Cameras

5.12 An important element of the overall safe car journey is having a secure and safe place to leave the vehicle. Table 5.5 shows the number of off street car park spaces with CCTV coverage in the major town and city centres in West Yorkshire. The data refers to council owned car park spaces only.

	Year	Bradford	Halifax	Huddersfield	Leeds	Wakefield
No. of Spaces	2000	2,021	441	1,902	2,708	1,743
with CCTV	2001	856	441	2,187	2,708	1,705
	2002	1,576	441	2,667	2,708	1,266
	2003	1,576	441	2,764	2,931	1,266
	2004	1,551	441	3,087	2,137	1,215
	2005	1,551	489	3087	2,137	1,189
	2006	1,551	489	3087	2,137	na
	2007	1,551	489	3,087	2,137	2,740
	2008	1,438	489	3,087	2,137	940 *
No. of Spaces	2000	1,159	964	925	153	0
without CCTV	2001	889	964	890	153	0
	2002	124	964	1,048	153	439
	2003	124	964	1,018	140	439
	2004	193	964	668	831	538
	2005	193	964	668	831	530
	2006	193	1133	668	831	na
	2007	193	1133	668	831	588
	2008	170	1133	668	831	187 *
% of Spaces	2000	63%	34%	67%	95%	100%
with CCTV	2001	49%	34%	71%	95%	100%
	2002	93%	31%	72%	95%	74%
	2003	93%	31%	73%	96%	74%
	2004	94%	31%	82%	72%	69%
	2005	87%	50%	82%	72%	69%
	2006	87%	43%	82%	72%	na
	2007	87%	43%	82%	72%	82%
	2008	89%	43%	82%	72%	83% *

^{*} note loss of Marsh Way car park and other city centre redevelopment have affected parking supply in Wakefield.

Table 5.5 Local Authority Off-Street Car Parks with CCTV Surveillance

5.13 It is envisaged that the number and percentage of car parking spaces with CCTV cameras will increase in the future, not just in the main centres but also in other town centres in West Yorkshire.

Background Indicator S6: Rail/Bus Stations with CCTV Cameras

5.14 As with road users, the added security of CCTV coverage at railway stations is an important factor in safer travel. Table 5.6 shows the number of railway station car parks so covered. Changes to this coverage will be reported in future monitoring reports.

	Rail station car parks with CCTV	Of which staffed rail stations	Of which unstaffed rail stations
1999/00	22 (43%)	10 (63%)	12 (34%)
2004/05	25 (45%)	12 (67%)	13 (35%)
2005/06	25 (45%)	12 (67%)	13 (35%)
2006/07	25 (45%)	12 (67%)	13 (35%)
2006/07	24 (45%)	13 (67%)	12 (35%)
2007/08	24 (45%)	13 (67%)	12 (35%)
2008/09	24 (45%)	13 (67%)	12 (35%)

Table 5.6 Rail Station Car Parks with CCTV Surveillance

Background Indicator S7: Town and City Centre Streets with CCTV Cameras

5.15 Table 5.7 shows the changes in CCTV coverage in the major town and city centres since 1998 through the percentage of streets covered by cameras.

	Bradford	Halifax	Huddersfield	Leeds	Wakefield
1998	40%	0	90%	60%	93%
1999	40%	5%	90%	60%	93%
2000	40%	15%	90%	70%	93%
2001	40%	30%	94%	70%	93%
2002	55%	40%	94%	73%	93%
2003	60%	40%	95%	80%	93%
2004	65%	40%	96%	87%	93%
2005	65%	40%	96%	87%	93%
2006	65%	40%	96%	87%	93%
2007	na	40%	96%	90%	93%
2008	na	40%	96%	90%	93%

Table 5.7 Percentage of City Centre Streets Covered by CCTV

5.16 Changes to CCTV coverage will be reported in future monitoring reports.



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CHAPTER 6 BETTER AIR QUALITY

Introduction

- 6.1 The following 6 indicators are being used to monitor our progress towards achieving the LTP2 shared priority of "Better Air Quality". Progress towards targets in this area will be measured using 2 mandatory and 1 local key indicators. The remaining 3 indicators are background trend indicators which will help assess overall progress for this key strategy area.
- 6.2 These indicators are not exclusively related to Air Quality, but contain a complimentary or proxy information connected with climate change mitigation and environmental noise.
- 6.3 Road transport emissions remain the most significant source of urban air pollution within West Yorkshire. High levels of exhaust emissions can result from the effects of traffic congestion, which is most common during peak periods. NO_2 and PM_{10} are the two major transport pollutants of concern. Road transport emissions contribute in the region of 75% and 50% respectively, towards total urban emissions

Mandatory Indicator AQ1: NO₂ Levels in Air Quality Management Areas

6.4 Air quality is currently measured at Haslewood Close in the Ebor Gardens AQMA in Leeds. The real time monitoring station is close to York Road, the major road traffic source of NO_2 as show in Table 6.1. 2008 was a reasonably good year for dispersion with recorded concentrations generally lower than the preceding year across the district. 39.8 ug/m3 represents a 7% improvement from 2007 and 13% reduction from the 2004 baseline.

Leeds AQMA Monitoring	2004 (Index)	2005	2006	2007	2008
NO ₂ μg/m ³	45.8 (100)	41.3 (90)	41.6 (91)	43.0 (94)	39.8 (87)
	(100)	(90)	(91)	(94)	(07)

Table 6.1 NO₂ Levels in the Ebor Gardens, Leeds AQMA 2004-2007

6.5 Leeds remains the only District in West Yorkshire to have set an appropriate target for declared AQMA's. However, as monitoring capabilities improve, further targets will be set for other AQMAs throughout West Yorkshire as District's Air Quality Action Plans are nearing completion. Figure 6.1 shows the current location of declared AQMAs and Areas of concern throughout West Yorkshire.

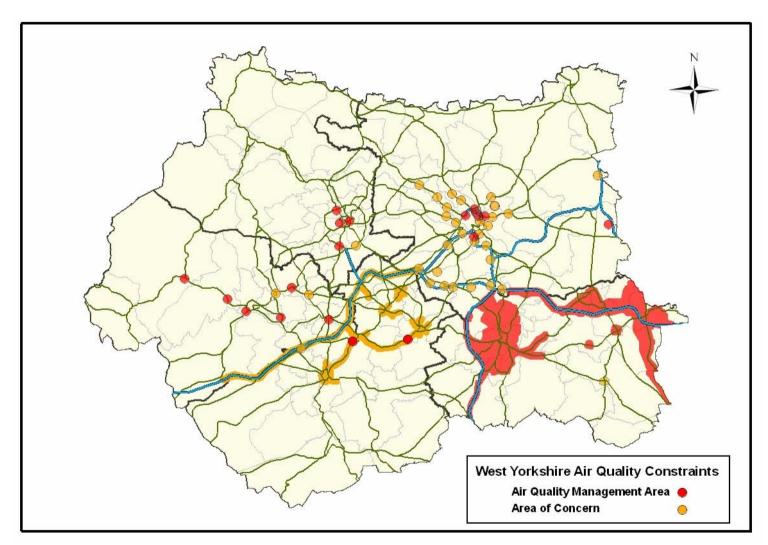


Figure 6.1 Location of Air Quality Management Areas and Areas of Concern.

6-2

Mandatory Indicator AQ2: Area Wide Traffic Flows

6.6 The West Yorkshire Long Term Monitoring Programme (LTMP) of automatic traffic counts was established in 1979 to monitor traffic flows at about 400 locations across West Yorkshire. In 1980, a sub-set of this programme, stratified to give a representative coverage of A, B and C/Unclassified roads was created to provide a statistically robust method for calculating changes in daily traffic flows across West Yorkshire. The methodology was modified in 2003 in that the flows obtained were weighted by road lengths in order to give a better estimate of changes in traffic volumes rather than vehicle flows. The location of the counting sites is shown in Figure 6. 2.

6.7 Table 6.2 below shows the change in the index of traffic volumes since 2000 relative to the LTP2 base year of 2004.

Year	Index of		
	Traffic		
	Volumes		
2000	97.5		
2001	98.3		
2002	97.4		
2003	100.2		
2004	100		
2005	102.3		
2006	100.1		
2007	100.3		
2008	97.9		
Change 2004	- 2.1%		
to 2008			

Table 6.2 Changes in Traffic Volumes from Long Term Monitoring Programme, 2000 to 2008

- 6.8 Changes to the index will be reported annually and will incorporate the latest road length statistics.
- 6.9 An alternative source of data for this indicator is data supplied by DfT on annual vehicle kilometres obtained from the National Traffic Census (NTC). Table 6.3 shows traffic volume changes since 2000 using this source.

Year	Index of		
	Traffic		
	Volumes		
2000	92.0		
2001	93.0		
2002	96.0		
2003	99.3		
2004	100		
2005	100.2		
2006	101.0		
2007	104.3		
2008	103.1		
Change 2004	+3.1%		
to 2008			

Table 6.3 Changes in Vehicle Kilometers from National Traffic Census, 2000 to 2008

- 6.10 In the past, the changes in flow calculated by NTC data have been greater than that indicated from our LTMP monitoring. We have retained the first methodology to derive our LTP2 target for the following reasons:
 - Consistency with LTP1 and District strategy monitoring and targets
 - A detailed analysis of the NTC statistics suggests that the majority of growth is on unclassified roads. The methodology used by DfT to establish vehicle kilometres from counts on minor roads is currently subject to revision following the Quality Review of Road Traffic Statistics.
- 6.11 We will continue to report both sets of statistics for this indicator but will track our progress towards the LTP2 target using figures derived from the LTMP.

Figure 6.2 Location of Annual Traffic Growth Count Sites

Local Key Indicator AQ3 : Area Wide Road Transport Emissions : NO_x , PM $_{10}$ and CO_2

- 6.12 Road transport emissions of oxides of nitrogen (NO_x) which contains a mixture of nitric oxide (NO_x) and nitrogen dioxide (NO_x), particulate matter and carbon dioxide (NO_x), the primary "greenhouse gas", have been predicted for the West Yorkshire trunk / principal road network. Annual emission rates were predicted for PM_{10} and NO_x using the latest DfT / DEFRA approved vehicle emission factors (Released February 2003). The DMRB vehicle emission factors published in 1999, were used to predict emissions of NO_x .
- 6.13 All calculated emission rates took account of the observed annual traffic growth for all road types in each District and actual traffic count data on the Motorway network. A new improved Emission Database (EDB) has been created to coincide with the start of the LTP2 monitoring period. This EDB takes more account of the variation in the percentage Heavy Duty Vehicles and has used ITIS speed data to try and better replicate the average network speeds throughout the county. However, emissions are speed sensitive and may underestimate the exacerbating effects of local congestion during peak periods.
- 6.14 Table 6.4 provides a summary of predicted road transport emissions for the West Yorkshire trunk / principal road network from the improved EDB.

Emissions				
Year		NOx	PM ₁₀	CO ₂
2004	Tonnes / yr			
(Base Year)		15,186	453	2,330,872
2005	Tonnes / yr	14,384	435	2,368,128
% Change from	om base year	-5.4%	-4.0%	1.6%
2006	Tonnes / yr	13,359	398	2,321,232
% Change from base year		-12.1%	-12.14%	-0.41%
2007	Tonnes / yr	12,453	357	2,315,153
% Change from	om base year	-18.0%	-21.2%	-0.7%
2008	Tonnes / yr	11,604	320	2,295,528
% Change from base year		-23.6	-29.5%	-1.5%

NB figures have been recalculated from base year since last report.

Table 6.4 Summary of Road Transport Emissions : NO_x , PM₁₀ and CO₂ 2004-2008

6.15 Approximately 15,186 tonnes and 2.33 million tonnes / year of NO_x , and CO_2 emissions respectively, were predicted for the year 2004. The predicted annual emission rates for NO_x 11,604 tonnes (-24%) and PM_{10} 320 tonnes (-30%), continue to fall across the region from the base year. Whilst the emission rates for CO_2 indicate a marginal reduction of 1.5% across the

region since 2005, figures for 2007 and 2008 appear to show that the beginning of a long term reduction in emissions from the base year may have started.

Background Indicator AQ4 : Air Quality Monitoring in Town and City Centres

6.16 Figure 6.3 illustrates the results of the annual average NO_2 monitoring within urban centres of each District. The 7 year period from 1998 shows the general trend of urban background NO_2 was improving until 2005, when all Districts easily complied with the annual average standard of 40 μ g/m³ However, 2006 saw a significant increase in NO_2 levels in every district except Kirklees. There is no clear trend between 2005 and 2008 although all Districts except Wakefield recorded lower concentration in 2008 than 2007 and comply with the relevant standard.

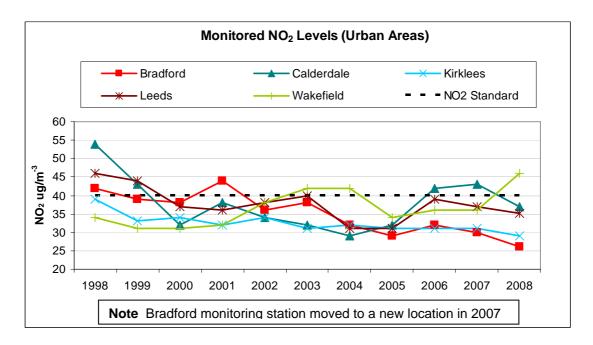


Figure 6.3 West Yorkshire Annual Average NO₂ Monitoring 1998 -2008.

Background Indicator AQ5: Area Wide Road Transport Emissions: PM₁₀

6.17 Figure 6.4 indicates that all Districts comply with the annual average PM_{10} standard of 40 $\mu g/m^3$. Since monitoring began in 1998 there has been little change in general background PM_{10} air quality within urban centres. The long term trend is unclear. Most Districts have seen a general increase in Annual Average PM_{10} levels between 2002 and 2006. However 2007 saw a general reduction in PM_{10} levels across the County similar to the 2004 levels. Figures for 2008 recorded further reduction across West Yorkshire.

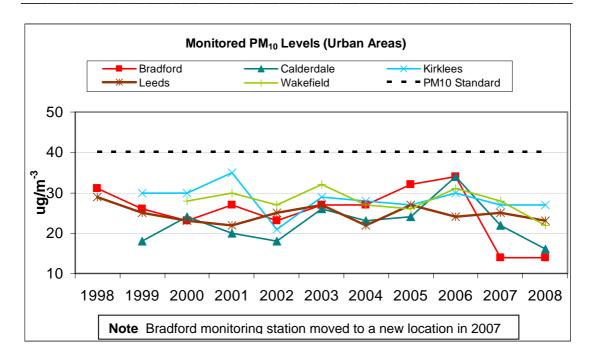
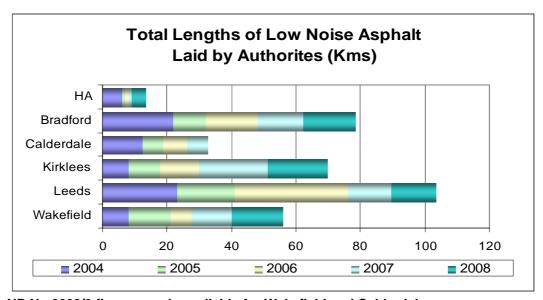


Figure 6.4 West Yorkshire Annual Average PM₁₀ Monitoring 1998-2008

Background indicator AQ6: Low Noise Road Surfacing

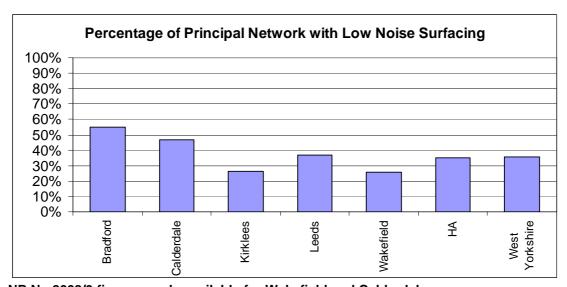
- 6.18 Approximately 65% of the population are exposed to noise levels above the World Health Organisation guideline levels. Road transport is the most dominant and extensive source of environmental noise. Low Noise surfacing can significantly reduce road traffic noise levels at source.
- 6.19 Figure 6.5 shows the approximate lengths of road that have been resurfaced with 'low noise' asphalt over the previous 5 years. In total, there has been approximately 680km of 'low noise' asphalt laid in West Yorkshire since the year 2000. A total of 273km, including nearly 7km of motorway network, has been laid between since 2005/6 with just over 68km of this being laid during 2008/09.



NB No 2008/9 figures made available for Wakefield and Calderdale

Figure 6.5 Total Length of Low Noise Asphalt Laid by District, 2004 to 2008

6.20 Figure 6.6 compares the actual lengths of 'low noise' asphalt laid within West Yorkshire to an approximate percentage coverage of the principal road network within each district. Taken as a whole, approximately 35% of the principal road network within West Yorkshire is now surfaced with low noise asphalt.



NB No 2008/9 figures made available for Wakefield and Calderdale

Figure 6.6 Percentage of Principal Road Network with Low Noise Asphalt

6.21 The use of low noise asphalt will continue to be monitored and reported annually. However, it remains difficult to classify which road surface types are considered as low noise asphalt.



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6-10

CHAPTER 7 ASSET MANAGEMENT

Introduction

- 7.1 The following four indicators have been selected to monitor our management of the transport assets of West Yorkshire. Progress towards LTP2 targets will be measured using two mandatory indicators and two local key indicators.
- 7.2 West Yorkshire averages for all road and footway condition performance indicators are calculated from weighted lengths, not an average of the five district values.

Mandatory Indicator AM1 : Principal, Non-principal and Unclassified Road Condition

- 7.3 For four years the condition of the Principal and Non-Principal Classified roads has been measured using SCANNER. The last two years' results have been reported using the same weighting set and are therefore directly comparable.
- 7.4 Recent results are shown below with individual district figures being weighted by road length to produce a West Yorkshire Average.

	2004/05	2005/06	2006/07	2007/08	2008/09
District	TTS %	Scanner %	Scanner %	Scanner %	Scanner %
Bradford	NA	18*	8	3	3
Calderdale	39	9	10	6	6
Kirklees	45	23*	12	4	5
Leeds	26	6	9	6	5
Wakefield	29	5	5	2	3
Weighted Ave.	21.02	9.67	9.68	4.49	4.5

Table 7.1 Proportion of Principal Road Network Where Maintenance should be Considered (NI 168)

- 7.5 The condition of Classified Non-Principal roads, BV97a, reported using CVI data has now been replaced with BV224a reported using data from the Scanner machine. This National Indicator was subsequently renumbered NI 169
- 7.6 The results are shown in Table 7.2 below.

District	2005/06	2006/07	2007/08	2008/09
	Scanner %	Scanner %	Scanner %	Scanner %
Bradford	27*	15	5	6
Calderdale	15	16	11	11
Kirklees	44*	25	7	9
Leeds	13	15	12	9
Wakefield	13	13	5	6
Weighted Ave.	22.92	16.93	7.74	7.9

Table 7.2 Proportion of Non Principal Classified Roads where Maintenance Should be Considered (NI 169)

- 7.7 The results for Bradford and Kirklees for 2005/06 marked * in both Tables 7.1 and 7.2 are now known to be erroneous. The contractor who surveyed these two networks has acknowledged nationally that their data has exaggerated the condition of the all networks surveyed. 2006/07 is, therefore, the first meaningful figure that can be reported with confidence.
- 7.8 The reporting of the condition of unclassified roads has undergone many changes in rules and parameters over the years. Data is now reported using results averaged from the previous four years. It is anticipated that this will smooth out the fluctuations that have been experienced over the last five years shown below.

District	2005/06	2006/07	2007/08	2008/09
Bradford	9.4	12.0	9	5
Calderdale	16.20	15	14	14
Kirklees	14.89	12	12	12
Leeds	23.51	26	22	16
Wakefield	21.79	22	19	15
Weighted Ave.	17.62	18.32	15.80	12.66

Table 7.3 Percentage of Unclassified Roads Where Maintenance Should be Considered

7.9 There is a degree of encouragement in the data in that the results are showing a gradual improvement when averages over a maximum four year cycles are plotted. The improvements across the five districts has however only been marginal. Greater investment is needed in the repair of unclassified roads if the gradual improvement is to be consolidated and extended.

Mandatory Indicator AM2: Footway Condition

7.10 BVPI 187 measures the condition of prestige, primary and secondary walking routes, but has been abandoned as a national indicator. The West Yorkshire authorities are continuing to report this PI in the absence of a national replacement. Fifty percent of these footways are surveyed each year using UKPMS DVI surveys; data has been collected for five years. Only alternate years' data can be compared with each other Therefore the West Yorkshire authorities believe that trends can be better assessed by taking a 100% sample over a two year period.

7.11 Future works programmes will further improve this part of the footway network. However these footways represent a relatively small percentage of the total footway network and eradicating the backlog of maintenance to all footways by 2010/11 will not be achieved without a considerable increase in funding

District	2005/06	2006/07	2007/08	2008/09
Bradford	16.25	26.00	21	21
Calderdale	5.63	5.00	5	5
Kirklees	6.95	16.00	22	16
Leeds	30.06	19.00	19	17
Wakefield	31.79	23.00	20	8
Weighted Ave.	22.32	20.29	18.65	14.78

Table 7.4 PI 187 Percentage of Prestige, Primary and Secondary Walking Routes where Maintenance Should be Considered.

Targets for Highway Maintenance Indicators

- 7.12 The West Yorkshire authorities remain cautious at predicting the trajectories and targets for the various performance indicators.
- 7.13 Both BVPI 223 and 224a, now measured by scanner, have little historical data to be able to develop a trend to assess the impact on carriageway condition of the current levels of spending.
- 7.14 BVPI 224b measures the condition on the greater part of the network, the unclassified local roads. A huge investment, over and above the current levels of LT settlement, is needed to make an impact in the condition of this sub-network. However with some of authorities the LTP highway maintenance settlement provides the majority of local maintenance budget.

Local Key Indicator AM3: Structures With Weight/Width Restrictions

- 7.15 The function of a bridge is to support the road, which in turn provides a transport facility for the user. If any part of the structure is closed or restricted for any reason, traffic will be disrupted and there will be resulting cost and inconvenience to the user. The overall functional requirement for bridge management, therefore, is to keep road user disruption to the minimum.
- 7.16 The percentage of structures with temporary weight or width restrictions is used to monitor performance in this area. The position at March 2009 is reported in Table 7.5, together with the 2004 baseline.

West Yorkshire: Weight And Width Restricted Structures												
TO MARCH 2004							TO MARCH 2009					
District	tempo	uctures vorary wei	ight or tion.	temporary weight or width restriction.		Structures with temporary weight or width restriction. (Council Owned)		ght or tion.	Structures with temporary weight or width restriction. (Privately Owned)			
	Total No In Prog	No Rest.	%	Total No In Prog	No Rest.	%	Total No In Prog	No Rest.	%	Total No In Prog	No Rest.	%
Bradford	237	3	1.7	74	11	14.8	237	3	1.7	74	11	14.8
Calderdale	263	0	0	66	1	1.5	263	0	0	66	1	1.5
Kirklees	290	17	5.9	87	15	17.2	318	14	4.4	87	5	5.7
Leeds	229	5	2.2	112	1	0.9	229	6	2.6	113	9	8.0
Wakefield	85	0	0	60	6	10.0	85	0	0	60	5	8.3
WEST YORKS	1104	25	2.3	399	34	8.5	1132	23	2.03	400	31	7.75

Table 7.5 Percentage of Structures with Temporary Weight or Width Restrictions, March 2004 and March 2009

7.17 Completion of the strengthening programme will allow all restrictions to be removed, except where permanent weight restrictions are acceptable. Hence, for Council owned structures, the target date is the end of the second 5 year LTP in March 2011, with the exception of sub-standard bridges under monitoring regimes where restrictions are not significant. These represent about 1.5% of structures in West Yorkshire. In addition, continued pressure on private bridge owners is required to ensure that their weak structures are strengthened within a reasonable timescale.

Local Key Indicator AM4: Bus Shelters Meeting Modern Standards

7.18 Market research has indicated that people's perception of public transport is influenced greatly by their wait for a service. This can be seen in the comparison between the percentage of shelters meeting modern standards in West Yorkshire's and overall customer satisfaction with them. Since 2003/04 both have increased significantly.

7.19 Table 7.6 below shows the proportion of shelters meeting the above standards and indicates we are making good progress towards our target of 95% by 2010/11

Year	% of	Customer
	shelters	Satisfaction
	meeting	**
	modern	
	standards *	
2003/04	40	NA
2004/05	46	NA
2005/06	57	NA
2006/07	68	6.64
2007/08	72	7.29
2008/09	79	7.62

^{*} defined as having full glazing, a light and seat and meeting DDA requirements.

Table 7.6 Proportion of Bus Shelters Meeting Modern Standards, 2003/04 to 2008/09

^{**} measured on a scale of 1 to 10 with 10 being good and 7 being target score for public satisfaction.

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CHAPTER 8 PROGRESS TOWARDS LTP TARGETS

Introduction

- 8.1 Table 8.1 below shows the progress made towards the 17 Mandatory and 10 local targets in the LTP.
- 8.2 A "traffic light" colour code system is used to indicate whether we are on track (green), have no clear evidence (amber) or are not on track (red) to meet the 2010/11 target. In addition the direction of movement since 2008 is shown using arrows.
- 8.3 The table shows that we are not on track to meet 4 out of 17 of our Mandatory targets :
 - Access to Hospitals
 - Bus Punctuality
 - Public Transport (Bus) Patronage
 - Total Killed and Seriously Injured Road Casualties
- 8.4 We have no clear evidence on a further 2 Mandatory and 3 local targets. This is mainly due to changes in survey methodology or revisions to existing databases.
- 8.5 Annual progress is measured against the trajectories as set out in Appendix F of the West Yorkshire Local Transport Plan 2006/07 2010/11 Appendices. Although on face value figures may be going up they will be deemed off target for the purposes of this report if they are not going up at a sufficient rate to meet the trajectory.

Ref	Description	Base	2006/07	2007/08	2008/09	Target	On Track?
M1	Access to Hospitals	89.5%	78%	75.4%	70.2%	89.5%	\leftrightarrow
M2	Bus Punctuality	87%	82.6%	85.7%	88.5%	95%	\downarrow
M3	Satisfaction with local bus services *	54%	66.4%	(7.21)	(7.63)	59%	\leftrightarrow
M4	Overall Cycling Trips	100	104	111	115	110	\leftrightarrow
M5	Person Journey Time	4'03"	4'07"	4'06"	No data	4'20	
M6	Peak Period Traffic Flows (Index)						
	Bradford	100	102	96	94	103	\leftrightarrow
	Halifax	100	99	102	101	103	\leftrightarrow
	Huddersfield	100	101	104	97	103	\leftrightarrow
	Leeds	100	99	97	95	103	\leftrightarrow
	Wakefield	100	100	104	101	103	\leftrightarrow
M7	Car Mode share to school	30.6%	30.6%	30.5%	29.8%	30.6%	1
M8	PT Patronage (millions)	199.1	196.9	192.6	195.0	209.0	\leftrightarrow
M9	Total KSI	1484	1,140	1,132	1,091	890	\leftrightarrow
M10	Child KSI	272	147	175	152	136	\leftrightarrow
M11	Total slight casualties	11,391	9,474	8,850	8,337	9642	\leftrightarrow
M12	NO ₂ in Leeds AQMA (Index)	100	91	94	87	90	\leftrightarrow
M13	Change in Area Wide Traffic (Index)	100	100	100.3	97.9	105	\leftrightarrow
M14	Maintenance on PRN *	36%	10%	(4.49%)	(4.5%)	27%	
			(9.68%)			(9%)	
M15	Maintenance on classified non	13%	17%	(7.74%)	(7.9%)	5%	
	PRN *		(16.9%)			(13%)	
M16	Maintenance on unclassified	16%	18.3%	(15.8%)	(12.66%)	9%	
	roads *		(18.3%)			(13.5%)	
M17	Maintenance on footways	24%	21%	19%	14.78%	14%	

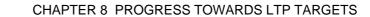
^{*} New Data source – revised target and trajectory needed

Table 8.1 Progress Towards Mandatory LTP2 Targets

Ref	Description	Base	2006/07	2007/08	2008/09	Target	On Track?
L1	Satisfaction with LTP funded PT facilities	87%	96%	No new data	No new data	90%	\leftrightarrow
L2	Peak Period Cycle Trips to Urban Centres						
	Halifax	100	108	123	na	120	
	Leeds	100	124	154	170	120	\leftrightarrow
	Wakefield	100	74	100	144	120	\leftrightarrow
L3	AM Peak Period Mode Split (% cars) +						
	Bradford	74	72	71	72	74	\leftrightarrow
	Halifax	74	69	68	Na	74	
	Huddersfield	64	61	59	64	65	\leftrightarrow
	Leeds	58	56	55	56	55	\leftrightarrow
	Wakefield	73	68	69	76	73	\downarrow
L4	Peak period rail patronage to Leeds	10,209	17,196	18,915	19,547	12,240	1
L5	Patronage on QBC's *		See Ta	ble 4.17			
L6	Pedestrian KSI's	525	314	347	364	420	\leftrightarrow
L7	NO _x emissions on PRN (tonnes/yr)	15,198	13,359	12,453	11,604	12,158	\leftrightarrow
L8	CO ₂ emissions on PRN (tonnes/yr)	2.330*10 ⁶	2.321*10 ⁶	2.315*10 ⁶	2.295*10 ⁶	2.329*10 ⁶	\leftrightarrow
L9	Council Owned Structures with restrictions	2.3%	2.5%	2.0%	2.0%	1.5%	\leftrightarrow
L10	Bus shelters meeting modern standards	40%	68%	72%	79%	95%	1

^{*} New Data source – revised target and trajectory needed + Provisional – methodology change

Table 8.2 Progress Towards Local LTP2 Targets



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