

Winchester Local Development Framework Sustainability Appraisal (SA) & Strategic Environmental Assessment (SEA)

BASELINE

July 2007

prepared by



Appendix B Winchester SEA/SA Baseline Information

B.1 INTRODUCTION

Baseline data has been presented in two formats: in summary text form and a more detailed baseline data table. All data will be updated before the plan appraisal takes place. Sources are shown in the list at the end of the section and refer to the baseline documents used for the LDF SEA/SA.

- B.1.1 Population
- B.1.2 Human Health
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B.1.1 POPULATION

Summary

In 2001 Winchester had a population of 107,222, an increase of 11.2% from 1991. In comparison Hampshire's population grew by 7% during the same period. The area is predominantly rural with 65% (69,694) of the population living in the rural area and the remaining 35% (37,528) living within the City area. By 2026 the predicted total population is expected to grow to about 132,000, an increase of 19% on 2001. Winchester is currently Hampshire's least densely populated district, 1.62 persons/hectare and can boast to be amongst the top 20 most affluent districts in England. However there are major contrasts in that the ward of St. John and All Saints is 4237th out of 8414 in the most deprived wards in the UK and there is some evidence of rural deprivation in outlying areas of the district. The break down of the population shows the mean age to be 40, low numbers of school children and with lower mortality rates overall, it is an ageing population. White Christians are the dominant ethnic and religious group although the population has become more culturally diverse in recent years.

Indicator	Data Source	Current Data	Comparators a	nd targets	Trend	Issues/Constraints/ Opportunities
Topic: Population						
Total number of people 2001 census	1	107,222	Hampshire (2007): 1,650,000 South East: 8,000,645	England: 49,138,831	Between 1991 and 2001 Winchesters population grew from 96,386 to 107,222, an increase of 11.2%. 35% of the population live within Winchester city and the other 65% in the rural area beyond. Winchester's population has increased through a net gain in migration, the 2001 census showed 7.3% of the population as internal migrants from within	The projected population increase will require an enhanced provision of services, and careful integration with existing communities. The needs of an aging population will have to be catered for and attention should be given to appropriate housing and access to facilities. The increase in population will have impacts on all the sections covered in this baseline, both

Indicator	Data Source	Current Data	Comparators ar	nd targets	Trend	Issues/Constraints/ Opportunities
					the UK. This may be linked directly to the city's proximity to London, attractive as a major commuting area.	environmental and social.
Mean Age of Population in the Area (2001)	1	40	South East: 39.08	England: 38.60	Numbers of school aged children have declined since 1991 and the higher than average mean age highlighting an aging population, in particular those aged over 75.	The decline in school age children may be a product of the area's house prices, but provision of affordable housing would enable young people and young families to remain in the area.
Density (number of people per hectare) (2001 census)	1	1.62	South East: 4.20	England: 3.77	Winchester is the least densely populated district in Hampshire and sits well below the regional and national average.	
Ethnic groups (highest 3 percentiles)	1	White: 97.84% Asian or Asian British: 0.69% Mixed: 0.66%	South East White: 95.10% Asian or Asian British: 2.33% Mixed: 1.07%	England White: 90.92% Asian or Asian British: 4.58% Black or Black British: 2.30% Mixed: 1.31%	Increases over the last decade show the population becoming more culturally diverse but white Christians remain the largest single group.	
Religion (stated religion 2001) (%) (top three percentiles excluding religion not stated)	1	Christian: 76.16 No Religion: 15.91 Muslim: 0.36	Christian: 72.78 No Religion: 16.50 Muslim: 1.36	Christian: 71.74 No Religion: 14.59 Muslim: 3.10		

Indicator	Data Source	Current Data	Comparators and targets		Trend	Issues/Constraints/ Opportunities
Country of Birth (2001) (%) (highest 3 percentiles) (nb other countries		South East	England			
		England: 88.50%	England: 88.01%	England: 87.44%		
listed are Scotland, Wales, Northern		Elsewhere: 4.73%	Elsewhere: 5.55%	Elsewhere: 6.91%		
Ireland and Rep. of Ireland)		Scotland: 2.02%	Scotland: 1.91%	Scotland: 1.62%		

B.1.2 HUMAN HEALTH

Summary

Winchester's general health is noticeably better than national and regional averages as highlighted by the low Standardised Mortality Rate (SMR). In line with this there are fewer households with one or more persons with a limiting long term illness.

Indicator	Data Source	Current Data	Comparators and targets		Trend	Issues/Constraints/ Opportunities			
Topic: Human Health									
Households with one or more person with a limiting long term illness (%) 2001	1	27.27	South East: 29.36	England: 33.55					
General health (persons %)	1	Winchester:	South East:	England:	The data shows 74.61(80,0000) of the population to be in good health, higher than the	With predicted rising population numbers, the Local Authority need to ensure the appropriate			
Good Fairly Good Not Good		74.61 19.48 5.91	71.50 21.38 7.12	68.76 22.21 9.03	national or regional average.	levels of health care and leisure facilities are provided to maintain the current good state of health experienced by residents.			
Standardised Mortality Ratios (SMRs) (UK=100)		83	Hampshire: 92 South East: 92		20% lower than national levels and significantly below regional average.				
Life expectancy		Data Gap	England (at birth) Males – 76.9 Females – 81.2	:	Life expectancy has reached its highest level at birth and amongst older adults resulting in a growing and ageing	The ageing population will need appropriate facilities in terms of demands on health care and the provision of			

Indicator	Data Source	Current Data	Comparators and targets	Trend	Issues/Constraints/ Opportunities
				population.	suitable housing, including sheltered housing schemes and residential and nursing care homes.

B.1.3 EMPLOYMENT

Summary

Winchester has a buoyant economy based on the service sector and experiences higher than average fulltime employment (41.55%) and significantly lower than average (1.61%) economically active unemployment levels. There is an educated and skilled workforce working in professional roles which amount to over 30% of the population. Winchester is also maintaining employment in agriculture at higher levels than the rest of the country.

Indicator	Data Source	Current Data	Comparators and targets		Trend	Issues/Constraints/ Opportunities				
Topic: Employment	Topic: Employment									
Percentage Economically Active -Employed % (2001 as percentage of total population aged 16-	1	Full time: 41.55	South East: 43.22	England: 40.81	Full time employment levels are above the national averages but perform slightly less well regionally. The part time rate of employment may be a reflection of the service based economy.	There is good economic base on which to build.				
74)		Part Time: 12.22	12.20	11.81						
Percentage Economically Active - Unemployed % (2001 as percentage of total population aged 16-74)	1	1.61	2.31	3.35	Unemployment has been and is consistently below regional and national average.	As above				

Indicator	Data Source	Current Data	Comparators ar	nd targets	Trend	Issues/Constraints/ Opportunities
Industry of employment All persons		Winchester 100% (53,306)	South East 100% (3,888,756)	England 100% (22,441,498)		
Agriculture/ Forestry (%)		2.9	1.4	1.5	Winchester is maintaining employment in agriculture at higher levels than the rest of the country.	There should be continued support for the rural economy to avoid the continuing downturn experienced in other parts of the country.
Fishing (%)		0.1	0.02	0.02		
Mining (%)		0.1	0.2	0.2		
Manufacturing (%)		9.5	12.1	14.8	Low level of employment in manufacturing.	
Electricity/Gas/Water Supply (%)		0.5	0.7	0.7		
Construction (%)		6.3	7.1	6.7		Winchester's housing requirement amounts to 10,439 between 2006 and 2026 which could lead to an increase in those employed in construction.
Wholesale/ Retail Trade (%)		13.6	16.3	11.6	The retail sector is above the national average but lags behind the region. As such a large part of the City Council is rural this is to be expected.	
Hotels/ Restaurant (%)		4.7	4.3	4.7		
Transport/ Communications (%)		5.4	8.1	7.1		

Indicator	Data Source	Current Data	Compara	ators a	nd targets	Trend	Issues/Constraints/ Opportunities
Financial (%)		3.7	5.1		5.8		
Real Estate (%)		17.9	15.6	ó	13.2	A significantly higher rate of those employed in real estate compared to nationally.	Likely to maintain this level due to new housing requirement and buoyant local economy.
Public Admin (%)		9	6		6.6		
Education (%)		9.8	7.8		8.7		
Health & Social Work (%)		10.8	9		10.6		
Other Community/ Social Activity (%)		5.2	4.5		5		
Self Employed (%)		0.2	0.2		0.1		
Extra Territorial Organisations (%)		0.1	0.03	3	0.05		
Other (%)		0.2	0.5		2.6		
Net Commuting (persons)	34	In-Commuti Winchester (13,000			Commuting nester (approx)	50% of all in-commuting to Winchester is from the Solent area.	If the commuting pattern stays the same, efforts should be made to encourage use of sustainable modes of transport. This could include efficient park and ride schemes and encouraging employers to adopt green transport plans with car sharing, provision of showers, cycle storage etc.

Indicator	Data Source	Current Data	Comparators	and targets	Trend	Issues/Constraints/ Opportunities
Socio-Economic Classifications 2001 (% Persons aged 16- 74)	1		South East	England		
Large employers and higher managerial occupations		5.90	4.53	3.50		
Higher professional occupations		8.89	6.26	5.11	Significantly high % of professional occupations.	The economy should build on the high skilled population present.
Lower managerial and professional occupations		22.50	21.18	18.73	Significantly high % of professional occupations.	The economy should build on the high skilled population present.
Semi-routine occupations		8.50	10.63	11.65		
Routine occupations		5.76	7.35	9.02		
Never Worked		1.02	1.58	2.72	Significantly lower % of residents who have never worked.	
Full-time students		9.00	6.72	7.03	Indicates a well educated younger population.	Attempts should be made to retain this sector of the population and could be helped through the provision of low cost market housing and building on the wide range of employment opportunities.
Gross Value Added (GVA) per head.		Hampshire:	South East: 16,756		Steady increase since 2001	
Employment land allocated in adopted		Site location (ha.)	1 -1	Area of site		Allocated land is available for businesses that wish to expand or
local plan		West of Wate	erlooville	30 ha		relocate to the area.

Indicator	Data Source	Current Data	Comparat	Comparators and targets		Trend	Issues/Constraints/ Opportunities
		Hillson's Road Solent 1, Whit Solent 2, Whit Little Park Far	eley eley	4.1 9.8 8.7 1.3			
Mixed use sites allocated in adopted local plan		Site location Abbey Mill, Bi Waltham Freeman's Ya Former Statio Coach Busine Scotney	· ard, Cheriton n Yard and	1.9	site (ha.)		The allocation of mixed sites facilitates sustainable development by producing workplaces and homes in the same location.
Total Employment Related to Tourism Spending 2004	44 45	Direct	2000 3,037	2002 3,095	2004		
		Indirect & Induced	926	591	944		
		Total	3,964	3,685	3,757		

B.1.4 SOCIAL EXCLUSION

Summary

There are a significantly lower number of households with no adults in employment; 1.89% compared to a national average of 4.83%. There is also a decline in the proportion of households with young children. However Winchester has a well educated population with 30.16% being qualified to professional status compared to 19.9% nationally. Generally the area scores well in the Index of Multiple Deprivation with scores consistently in the 300s (where 1 is the most deprived and 354 the least deprived).

Indicator	Data Source	Current Data	Comparators and targets		Trend	Issues/Constraints/ Opportunities			
Topic: Social Exclusion									
Households with no adults in employment: with dependent children (%) 2001	1	1.89%	South East: 3.29%	England: 4.83%	Significantly lower than regional or national averages.				
Households with dependent children (%) 2001	1	27.42%	29.18%	29.45%	Proportion of households with young families has decreased as has the proportion with large families.	The decline in households with young families may be a product of the area's house prices and provision of affordable housing would enable young people and young families to remain in the area. There are currently over 2,000 on the housing needs register and average house prices of £300.000.			
Average household size (persons)	1	2.35	2.38	2.36	The proportion of single person households has increased substantially as has the national trend.	This presents specific accommodation needs for both the young and elderly.			

Indicator	Data Source	Current Data	Comparators	and targets	Trend	Issues/Constraints/ Opportunities
Households with central heating and sole use of bath / shower and toilet (%)	1	96.28	93.56	93.56		
Households without central heating; with sole use of bath / shower and toilet (%)	1	3.28	5.96	8.37		
People aged 16-74 with:	1	Winchester	South East	England		
No qualifications (%) 2001		18.76	23.92	28.85	Significantly below the regional and national averages.	Indicates a high skilled population on which to build a modern local economy.
Highest qualification attained level 1 (Level 1 qualifications cover: 1+'o' level passes; 1+CSE/GCSE any grades; NVQ level 1; or foundation level GNVQ)		13.25	17.13	16.63	·	
Highest qualification attained level 4 / 5 (Level 4/5 Qualifications Cover: First Degree; Higher Degree; NVQ Levels 4 and 5; HNC; HND;		30.16	21.75	19.90		Indicates a high skilled population on which to build a modern local economy.

Indicator	Data Source	Current Data	Comparators and targets	Trend	Issues/Constraints/ Opportunities
Qualified Teacher Status; Qualified Medical Doctor; Qualified Dentist; Qualified Nurse; Midwife; or Health Visitor)					
IMD Extent – (proportion of a district's population living in the most deprived Super Output Areas (Sosa) of the country)		0.00			Indicative of the general wealth of the area.
IMD Extent Rank – (ranking of IMD extent, on national scale. A rank of 1 is the most deprived, and 354 is the least deprived)		298			Indicates a low level of deprivation which may be concentrated in specific areas where action could be focussed.
IMD Income Scale – (the number of people who are income deprived)		5,299			
IMD Income Scale Rank - (see explanation of ranking above)		308			This indicates a well paid local economy.

Indicator	Data Source	Current Data	Comparators and targets	Trend	Issues/Constraints/ Opportunities
IMD Employment Scale – (number of people who are employment deprived)		2,443.75			
IMD Employment Scale Rank		309			Reflects the high level of employment in the area.

B.1.5 HOUSING

Summary

Average house prices are significantly higher in Winchester when compared with the South East. Between 2006 and 2026 10,439 dwellings are to be built in the Winchester area to meet the predicted housing need. The Council has a policy that a percentage of these will be affordable housing for rent and/or shared ownership to meet the housing needs of those whose needs are not met by the market.

Indicator	Data Source	Current Data	Comparators	and targets	Trend	Issues/Constraints/ Opportunities
Topic: Housing						
	5		South East	England		
All households: with residents		43132	3,287,489	20,451,427	The affordable housing expected to be provided as	With the projected housing requirement for the area and
Owner occupied owns outright (%)		33.7	31.28	29.19	part of the general housing requirement should lead to an	national policy on the provision of affordable housing there is an
Owner occupied own mortgage /loan (%)		37.8	41.90	38.88	increase in properties rented from housing associations and shared equity ownership.	opportunity achieve significant levels of affordable housing for rent/shared equity which will in
Owner occupied shared ownership (%)		0.3	0.70	0.65		some part address the issue of housing costs for those unable to purchase homes in the
Rented from council (%)		11.7	7.35	13.21		private market.
Rented from housing association (%)		4.3	6.61	6.05		

Indicator	Data Source	Current Data	Comparators	and targets	Trend	Issues/Constraints/ Opportunities
Rented from private landlord/ letting agency (%)		8.6	8.77	8.80		
Rented other (%)		2.7	3.31	3.22		
Housing Allocations Net additional dwellings 2006 -2026		Winchester provision for annual average of 522 dwellings between 2006 and 2026, totalling 10,439.	average of 2	ovision for an annual 8,900 net additional ween 2006 and 2026.		
Provision of affordable housing						The Council is already addressing this issue through a "saved policy" on the provision of affordable housing from the adopted local plan and the preparation of SPD to expand on, and clarify, the policy.
Number of People per Hectare	5	1.62	East Hampshi England and	re 2001: 2.12 Wales 2001: 3.4		
Average Household Size		2.35	East Hampshi England and	re 2001: 2.44 Wales 2001: 2.36		

Indicator	Data Source	Current Data	Comparators and targets	Trend	Issues/Constraints/ Opportunities
Average House Price: 2006	18	Winchester Average Cost: £330,452 Detached: £480,999 Semi- detached: £284,430 Terraced: £265,405 Flat:£189,311 Change in last quarter: 3.3% Change in last year: 8.7%	South East Average cost: £233,338 Detached: £375,532 Semi-detached: £216,821 Terraced: £179,464 Flat: £154,161		The high house prices in Winchester are probably affecting the balance of population as many young people are unable to purchase a property in the area. As above, the Council is addressing the issue of the provision of affordable housing.
Housing Need	42	The total afford 1,284 units. Re-le average 480 un addressing the allowing for this annual affordal	able housing need annually is for ets of the existing social stock hits and is the major means of scale of need identified. After level of supply there will still be an ble housing shortfall of 779 units d over the nine year period to f 7,011 units.	Increasing house prices and the inability of many to enter the housing market indicates an increase in the numbers on housing needs registers.	With the projected housing requirement for the area and national policy on the provision of affordable housing there is an opportunity achieve significant levels of affordable housing for rent/ shared equity which will in some part address the issue of housing costs for those unable to purchase homes in the private market.
Supported and Adapted Housing Needs	42		olds in Winchester contain a special need, suggesting seholds.		The City Council is addressing this issue through their Draft SPD on affordable housing which

Indicator	Data Source	Current Data	Comparators and targets	Trend	Issues/Constraints/ Opportunities
		were adapted just 4% in the ov	Housing Association rented homes for a disabled person compared to vner occupied (no mortgage) ally older people.		requires new development to meet Lifetime Homes Standards.

B.1.6 TRANSPORT

Summary

Between 1950 and 1995 car ownership in the UK increased from 2 million vehicles to 21.4 million and it is predicted to further increase by 20% by 2015. More ownership equals more use and traffic is predicted to increase in Hampshire by 2% on the motorways and 1% on local roads in the next 10 years. The Hampshire Transport Plan has identified local peak hour congestion in Winchester which will only be exacerbated, by an increase in car numbers from the level of development proposed by the South East Plan. Particularly noticeable in Winchesters more rural areas is the accessibility problems to local and sub regional facilities worsened by poor transport infrastructure.

The figures show fewer households with no or one cars compared to national and regional figures but those households with two, three or more are substantially higher in comparison. This is inline with the affluence of the population within the region and logically lends weight to the figures showing car and van travel as the most used mode of transport. The data concerned with distance travelled to work indicates high numbers travelling less than 2km, so within the city centre area or close to where the bulk of local businesses are located. As a commuter hub the figures show numbers of people travelling 10- 30km and 40-60kms fairly high indicative of the corresponding distance to Southampton and Portsmouth. 6.9% of the population travel 60km plus, relating to the distance to London (109km) and emphasising the importance of location in respect to travel.

Indicator	Data Source	Current Data	Comparators and targets		Trend	Issues/Constraints/ Opportunities
Topic: Transport						
All cars and vans in area	32	61,868	England and W 23,936,250	Vales:		
Households with no cars or vans % (2001)	1, 32	15.69	South East: 19.43	England: 26.84	There are substantially less households in Winchester with no cars or vans compared to	
Households with one	1, 32	39.37	42.62	43.69	the regional and national	

Indicator	Data Source	Current Ligita Comparators and targets		and targets	Trend	Issues/Constraints/ Opportunities
cars or vans % (2001)					average. This is consistent with	
Households with two cars or vans % (2001)	1, 32	34.54	29.56	23.56	households with one car.	
Households with three cars or vans % (2001)	1, 32	7.74	6.29	4.52	The data from households with two cars, shows Winchester having 46.6% more than the national average highlighting the affluence of the area. This is emphasised by households with 3 cars or more also being 71% above the national and 23% above the regional average.	The very high levels of car ownership in Winchester presents a challenge in changing modes of transport. This has implications for climate change and air quality.
Mode of travel to work (%)	1, 31	Winchester	South East	England	2000: Biennial surveys of bus passengers on the radial routes	Although there has been an increase in train and bus use, Winchester still falls behind the
Train Bus Motorbike Car/Van Passenger Taxi Bike Foot		4.09 3.23 0.99 58.78 4.92 0.21 1.90 13.11	5.63 4.35 1.12 59.18 5.65 0.41 3.07 9.91	4.23 7.51 1.11 54.94 6.11 0.52 2.83 9.99	round Winchester show an overall increase of 22% since 1993. Pedestrian counts show an increase of 2.9% since 1993. Rail counts show an increase in the number of passengers boarding from 3,170 in 1997 to 3,622 in 2000, a 14% rise.	national average. Winchester experiences a high level of in commuting and also some out commuting, but 30% of people work at hone or travel less than 2km. There are opportunities to change the current travel pattern through the provision of safe and convenient walking and cycling routes within the town and measures to encourage public transport use

Indicator	Data Source	Current Data	Com	Comparators and targets		Trend	Issues/Constraints/ Opportunities
							such as park and ride.
Distance travelled to work	32	All persons Works at home Less than 2km 2km – 5km 5km – 10km 10km – 20km 20km – 30km 30km – 40km 40km – 60km 60km +	53,30 6,837 11,25 6,253 6,379 9,695 3,524 1,579 1,679 3,719	7 53 3 9 5 4 9 9	Winchester (%) 100 11.9 21.1 11.7 11.9 18.2 6.6 2.9 3.1 6.9	Less than 2km has the highest percentage of people traveling this distance to work. This shows that they live close to work and possibly within close proximity to the city centre. Southampton is 20km from Winchester and could be a factor in the percentage of people traveling 10-20km and 20-30km. Portsmouth is 50km and may also contribute to the figures for 40-60km as commuters traveling. 6.9% of the population travel 60km+, which may represent commuter travel to London (distance = 109km).	
Usual time taken to travel to work (minutes)	33	10 or less 11 – 20 21 – 30 31 – 40		South East (%) 33.7 29.7 17.5 5.1	31.3 28.5 18.2 5.6		

Indicator	Data Source	Current Data	Cor	nparato	ors and targets	Trend	Issues/Constraints/ Opportunities
		41 - 50 51 - 60 More than 60)	5.6 4.2 4.2	6.3 5.6 4.4		
Travel to School	34	Walk Car Bus	UK Age 5 (%) 50 41 9	5 – 10	UK Age 11 -16 (%) 44 22 24	 5 - 10 Numbers of children walking to school fell from 62% in 1989/91 to 50% in 2004 whilst those traveling by car rose from 27% to 41%. The average length of journey for 5-10 year olds has increased from 2.1km to 2.7km over the same time period. 11 - 16 The numbers of children walking fell from 48% to 44% between 1989/91 and 2004 whilst those traveling by car increased from 27% to 41%. The average journey distance increased from 4.5km to 4.7km for 11-16 year olds. At peak time, 8.45 on weekdays in term time 1 in 4 car trips by residents in urban areas is generated by school run. 	National figures have been provided in the absence of data for Winchester because the congestion caused by car trips to school and the safety implications of these levels of traffic are of national concern. The challenge for Winchester is to make walking or cycling to school an attractive proposition through the provision of safe walking and cycling routes. However the distance to school is increasing which will discourage walking. The proposed development for the area should include schools in walking distance to serve new developments.
Rail	34	Rail passenger by 19% betwe			mpshire increased and 2003/2004.	Most rail journeys in Hampshire are to local destinations within	The provision of new park and ride car parks could increase the

Indicator	Data Source	Current Data	Comparators and targets	Trend	Issues/Constraints/ Opportunities
				the county. The County Council predict a slowing in the rate of increase between 2003/2004 and 2010/2011 to 6%due to the fact the network is more congested and approaching saturation in the peak hours. Most station car parks in Hampshire full by 9.00am so rail travel constrained by travel options to station.	levels of rail use.
Motorway	34	Motorway traf	fic growth at 2% per year.	Traffic flows over 100,000 vehicles/day regularly recorded on M3 between M27 and Winchester. M3/A34 junction at Winchester – significant delays particularly at the weekend where there is heavy tourist traffic.	
Cycling	34	Hampshire has and urban cycl	750 miles of off-road cycle routes e paths.	Cycling in Winchester equates to 4% of the population travelling to work and regionally averages 3.5% of journeys to work.	

Bus Car Parks Winchester City Upper Brook Street Cossack lane Middle Brook lane Friarsgate Colebrook Street Figure 263 Colebrook Street Figure 263 Colebrook Street Figure 263 Colebrook Street Figure 263 Figur	ts/
Bus Journeys increased by 20% in Winchester.	
Winchester City Upper Brook Street 56 Cossack lane 46 Middle Brook lane 143 Friarsgate 263 Colebrook Street 77 Jewry lane 95 The development Ride facilities shou congestion and Coparking.	
Winchester City Upper Brook Street 56 Cossack lane 46 Middle Brook lane 143 Friarsgate 263 Colebrook Street 77 Jewry lane 95 The development Ride facilities shou congestion and Coparking.	
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Jewry lane 95	
Chesil Multi-Storey 624	
Chesil Street 87	
Car Parks Tower Street Multi-Storey 522	
Durngate 67	
Worthy Lane 149	
Coach park 103	
Gladstone Street 115	
St Peters 190	
Cattle Market 198	
The Brooks 323	
Park & Ride St Catherines 785 Guildhall Yard 29	
Guildhall Yard 29 River Park Leisure Centre 244	
19 4116	

B.1.7 LANDSCAPE & TOWNSCAPE

Summary

Winchester has both a rich architectural heritage and landscape setting. 40% of Winchester City Council area is part of the East Hampshire AONB and the designation of the South Downs National Park is proposed.

Indicator	Data Source	Current Data	Comparators and targets	Trend	Issues/Constraints				
Topic: Landscape an	Topic: Landscape and Townscape								
Winchester District		Winchester district is predominantly rural covering 250 square miles of diverse countryside including chalk downs, large arable fields, extensive woodland, river valleys, heath remnants, historic parks and clay lowland. The district has over 50 rural settlements as well as Winchester City.							
		majority of the dis different areas of to the north and a scarps, hilltops an landscape chara the east-west cha fields interspersed the district the va	If the district can be broadly divided into strict is strongly influenced by the underly downland. The 'Hampshire Downs' land east of Winchester is a broad belt of strong valleys with an overall exposed character area running through the centre of alk ridge. This is a more elevated landsold with scattered settlements, parkland a ried clays and gravels of the 'South Haracters enclosed and small scale landscap and woodland.	ying chalk giving rises to two dscape character area, lying ongly rolling chalk downs with acter. The 'South Downs' f the district is associated with ape combining rolling arable nd woodlands. To the south of mpshire Basin' provide a					
		large areas of mo	fits from a large number of scattered ar ore recent woodland. It is particularly fo downs. Winchesters hedgerows have a	und in the southern parishes					

Indicator	Data Source	Current Data	Comparators a	nd targets	Trend	Issues/Constraints
		character of the landscape. Hedg species and foun the south of the often being form. The well drained surface water fea alkaline springwa predominates spi				
Area of admin geography (m2 thousands) (i.e. areas	1	Winchester 661,071.11	19,412,971.66	England 133,037,283.00		
of boundary) Area of greenspace (m2 thousands)	1	608,279.37	16,442,704.44	115,741,625.40		A Green Space Strategy could ensure no loss of greenspace and improve the current situation. (Greensapce: Greenspace is any vegetated land or water within or adjoining an urban area Including derelict, vacant and contaminated land which has the potential to be transformed, natural and semi-natural habitats, Green corridors - paths, disused railway lines, rivers and canals)

Indicator	Data Source	Current Data	Comparators ar	nd targets	Trend	Issues/Constraints
Area of water (m2	1					
thousands)		3,313.97	527,873.24	3,436,199.04		
Areas of Outstanding	14			of Winchester City		The objectives of the AONB
Natural Beauty				cterise this area, in		Management Plan should be
(AONB)			est rolling chalk dov			supported by, and reflected in,
			east and north ste	eep neavily ntains the rich Meon		the LDF. AONBs are recognised to be of the same importance,
				SSIs and part of the		and have the same
			ronmentally Sensiti			protection, as National Parks.
				a. The AONB covers		
		31% of the South	East.			
National Parks	14		h Downs National I			The National Park will have its'
			o Areas of Outstar			own independent planning
				the Sussex Downs it would include an		authority.
			mei National Park, wnland. Approxima			
		people visit the a		atoly 67 million		
Environmentally	14	South Downs & Te	est Valley extends i	nto Winchester		Should be protected from
Sensitive Areas		district along the	River Dever.			development.
Landscape Character	14	23			The Countryside Quality	Landscape Character
Areas					Counts (CQC) study Tracking	Assessment is a useful tool to
	43	1. Hursley Scarpla			Change in the Character of	guide development and
		2. Sparsholt Wood 3. Crawley Downs			the English Landscape 1999- 2003, provides evidence	ensure that local character is not eroded.
		4. Wonston Down			about the ways the English	Hot Gloded.
		5. Dever Valley			countryside is changing and	
		6. North Dever Do	owns		what implications this might	
		7. Stratton Woodl	ands		have for achieving	

Indicator	Data Source	Current Data	Comparators and targets	Trend	Issues/Constraints
		8. North Itchen Downs 9. Upper Itchen Valley 10. Bighton Woodlands 11. Bramdean Woodlands 12. East Winchester Downs 13. Lower Itchen Valley 14. Cranbury Woodlands 15. South Winchester Downs 16. Upper Meon Valley 17. Hambledon Downs 18. Forest of Bere Lowlands 19. Portsdown Hill 20. Lower Meon Valley 21. Whiteley Woodlands 22. Shedfield Heathlands 23. Durley Claylands		sustainable development. The Hampshire and South Downs are identified as Maintained areas. Maintained: if the character of an area is already strong and largely intact, and the changes observed for the key themes served to sustain it, or simply because the lack of change meant that the important qualities are likely to be retained I the long term.	
				The study identifies the South Hampshire Lowlands as an area that is Diverging. Diverging: if the change in the key themes appeared to be transforming the character of the area so that either its distinctive qualities are being lost, or significant new patterns are emerging.	
Character areas	41		ity vn (including the Barracks area and se as distinct areas within the Walled		Winchester City is of considerable historic and architectural interest and the

Indicator	Data Source	Current Data	Comparators and targets		Trend	Issues/Constraints
		The Riverside;St Giles' Hill—thChristchurch RoSt Cross;Hyde—the North	lege and Kingsgate e Eastern Suburb; bad; thern Suburb; and and the Western Su			definition of character areas will help guide development to ensure that the character is not eroded.
Land currently in use and allocated in a	1	Winchester	South East	England		Potential to maximise use of previously developed land.
local plan for any use or with planning permission for any use: estimated dwellings	anning 80 n for any ated	80	67,840	357,490		
Land that is unused or could be available for redevelopment; estimated dwellings	1	410	160,190	986,050		Potential to maximise use of previously developed land.

B.1.8 CULTURAL HERITAGE

Summary

The District has a rich archaeological resource, including remains from prehistory to the military history of the last century and has an extensive amount of listed buildings. The City Council has designated 37 Conservation Areas in the District to date and has 109 Scheduled Ancient Monuments.

Indicator	Data Source	Current Data	Comparators and targets		Trend	Issues/Constraints/ Opportunities				
Topic: Cultural Herita	Topic: Cultural Heritage									
World Heritage Sites	2	0	South East: 2	UK : 27						
Historic Buildings at Risk	3, 19	49	South East: 233		Figures fluctuate depending on levels of funding for repair and the characteristics of buildings (age, location, use).	Historic towns struggle with impacts of tourism unless carefully managed. Tourism is estimated to be worth				
English Heritage Register of Buildings at Risk (2006)	41	Total - 5 Grade I (a) - 1 Grade II* - 2 Grade II Scheduled Monuments - 1	Test Valley - 0 Gosport - 7			approximately £135 annually to Winchesters economy. However adverse consequences such as erosion, congestion, pollution and intrusion can harm the preservation of protected sites. Fortunately the Tourism Strategy is aware of these issues and focuses on sustainable tourism to preserve				
Number of listed	3, 18	2262	Hampshire:		Winchesters high percentage	historical culture and ensure				

Indicator	Data Source	Current Data	Compa	rators and targets	Trend	Issues/Constraints/ Opportunities
buildings		(92% Grade II) (5.5% Grade II*) 2.5% Grade I	10,766 (93.4% C (4.6% Gi (2% Gra UK: 442,000 (94% Gr. (4.1% Gi (1.4% Gi	rade II*) de I) ade II) rade II*)	of Grade 1 buildings, reflect the historic nature of the town and the requirement for preservation.	the quality of life of residents who may also be affected. The extensive stock of historic buildings in the District represents a major asset and should continue to enjoy a high level of protection. However, it should be
Number of archaeological sites of interest	12	103	UK : 95,000	ado ij		accepted that sometimes alternative uses and alterations may be needed to ensure their
Registered Historic Battlefields	4	1	Hampsh 1 England 43			continuing conservation.
Conservation Areas	7	37	Test Valley: 36 Hampshire: 281 England: 8,000			Whilst Conservation areas should not be seen as a barrier to development, good quality development should be sought to ensure their integrity is not undermined.
Historic Parks and Gardens	4	10	Hampsh 57	ire:		
Church of England Statistics	41	Winchester Dio	cese Canterbury Diocese			
		Total number of Churches	413	329		

Indicator	Data Source	Current Data	Comparators and targets		Trend	Issues/Constraints/ Opportunities
		% listed grade I or II*	48	67		
		Total % of listed churches	77	78		
Scheduled Ancient	41	109		Hampshire:		
Monuments				626		

B.1.9 BIODIVERSITY

Summary

The District is rich in habitat and biodiversity with designated Special Areas for Conservation, Special Protection Areas and Ramsar Sites. There are seventeen Sites of Special Scientific Interest of which nine are in favourable condition but the others are unfavourable and vary from recovering to declining. The District has two nationally designated nature reserves and ten local nature reserves. Biodiversity Action Plans are in place for both habitats and species.

Indicator	Data Source	Current Data	Comparators and targets	Trend	Issues/Constraints/ Opportunities
Topic: Biodiversity					
Special Areas for Conservation (SAC)	12	The New Forest Butser Hill (238.6 River Itchen (30 East Hampshire Emer Bog (37.5 Mottisfont Bats	of ha) 9.26 ha) Hangers (569.68 ha) ha) (196.8 ha) ct, the Itchen Valley is a C, as is part of the Hamble		Requirement to screen for Appropriate Assessment if there is any threat from development.
Special Protection Areas (SPA)	15	Hampshire: Salisbury Plain (2) The New Forest Solent & Southa			Requirement to screen for Appropriate Assessment if there is any threat from development.

Indicator	Data Source	Current Data	Comparators and targets	Trend	Issues/Constraints/ Opportunities
Ramsar Sites	15	Hampshire: The New Forest Solent & Southa	(29262.36 ha) ampton Water (5346.44 ha)		Appropriate Assessment if there is any threat from development.
Sites of Special Scientific Interest (SSSI)	12, 15, 29	Beacon Hill, Wa Botley Wood ar favourable Cheesefoot He Crab Wood - fa Galley Down W Hook Heath Mars Micheldever Sp Old Winchester Peake Wood - River Itchen - U favourable St. Catherines H The Moors, Bish part recovering Upper Hamble favourable	rood - favourable readows - unfavourable no change sh - favourable roil Heaps - unfavourable declining Hill - favourable favourable nfavourable decline, areas of Hill - unfavourable recovering op's Waltham - unfavourable declining,	17 in 2006	Nine of the seventeen SSSIs are in favourable condition whilst the others are unfavourable with some declining or recovering. Monitoring is necessary to ensure the continued favourable condition of the sites of the former sites. Management plans should be put in place to improve the condition of unfavourable sites.
National Nature Reserves (NNR)	14	2 Beacon Hill Old Winchester Hill	Hampshire: 11 England: 215		All nature reserves should be protected through LDF policy.

Indicator	Data Source	Current Data	Comparators and targets	Trend	Issues/Constraints/ Opportunities
Local Nature Reserves (LNR)	12	10	Hampshire: 40 England: 1050		All nature reserves should be protected through LDF policy.
EN Natural Areas	17	3 Hampshire Downs, South Downs and South Coast Plain, Hampshire Lowlands.	21 - South East 29 - South West		
Sites of Importance for Nature Conservation (SINC)	14	500			These sites should have protection as in the current adopted local plan.
Biodiversity Action Plan Species	16	Amphibians	Natterjack Toad (<i>Bufo calamita</i>) Great <i>cristatus</i>)	Crested Newt (<i>Triturus</i>	Protection from development of all protected species should be reflected through LDF
		Beetles	Noble chafer (<i>Gnorimus nobilis</i>) Gilkicker weevil (<i>Pachytychius haematocephalus</i>)		policy. Opportunities should be taken to enhance habitat
		Crustaceans	Freshwater White-clawed Crayfish (Aus.	tropotamobius pallipes)	where possible.
		Damsel/ dragonflies	Southern Damselfly (Coenagrion mercu	ıriale)	
		Flies	Hornet robberfly (Asilus crabroniformis)		
		Local species	Birds of Wet Meadows (inc. UK priority sp	pecies) Branta bernicla	

bernicla, Dark-bellied brent goose, Bumblebees Butterflies and Moths

Indicator	Data Source	Current Data	Comparators and targets	Trend	Issues/Constraints/ Opportunities
	(inc. UK priority species), Coronella austricaca, Smooth snake, Eptesicus serotinus, Serotine bat, Seed Eating Farmland Birds (inc. UK priority species), Shorebirds (inc. UK priority species), Tooth Fungi (inc.UK priority species), Valvata macrostoma, large-mouthed valve snail, Woodland Lichens (inc. UK priority species)				
		Mammals	Water Vole (<i>Arvicola terrestris</i>), Barbaste barbastellus), Otter (<i>Lutra lutra</i>), Dormou Bechstein`s Bat (<i>Myotis bechsteinii</i>), Pipis pipistrellus), Greater Horseshoe Bat (<i>Rhir</i>		
		Worms	Medicinal Leech (<i>Hirudo medicinalis</i>)		
	16	Local habitat	Ponds, Fen, Carr, Marsh, Swamp, Reed beds, Heathland, Acid Grassland and Bog, Lowland wet Grassland, Neutral Grassland, Open Standing Water of all i be ref policy taken		Protection from development of all identified habitats should be reflected through LDF policy. Opportunities should be taken to enhance habitat
Biodiversity Action Plan Habitats		Priority Habitats			where possible.

B.1.10 WATER RESOURCES

Summary

Water supply in Hampshire is usually of high quality and resources depend on the groundwater stored in the chalk aquifers of the Hampshire Downs. Hampshire has no above ground storage reservoirs. There has been a 12% net increase in water quality in the county since 1990 but the Itchen has seen an increase in nutrient levels from sewage works (mainly phosphate) and farmland run-off (mainly nitrate) due to increased concentrations as a result of population growth and agricultural intensification. In the River Test and Itchen Catchment Area there are over 3,000 properties at risk of flooding.

Indicator	Data Source	Current Data	Comparators and targets	Trend	Issues/Constraints/ Opportunities
Topic: Water Resource	ces				
Rivers	37	flow and high so Hampshire has on groundwate	on is substantially affected by low river oluble phosphorus concentrations. 15 major rivers, all heavily dependent er stored in the chalk aquifers. no above ground storage reservoirs.		
Chemical river water quality Biological river water quality	8, 9	Itchen: Good Itchen: Good	South East (2003 – 2005) 84% Good 9% Fair 6.7% Poor/Bad South East (2003 – 2005) 94% Good 4.5% Fair	12% net increase in water quality in the county since 1990.	Increases in population have resulted in large sewage treatment works discharging directly to the lower reaches of the river. Effluent at Winchester and Alresford is discharged to the river and ground using the capacity of

Indicator	Data Source	Current Data	Comparators and targets	Trend	Issues/Constraints/ Opportunities
			1.7% Poor/Bad		the Chalk to treat it to a high standard. The Environment
River water phosphate levels	8, 9	Itchen: Very High phosphate levels	South East (2003 – 2005) 22.6% Good 24.4% Poor 53% Bad	The Itchen has seen an increase in nutrient levels from sewage works (mainly phosphate) and farmland	Agency sets stringent conditions on the quality and quantity of discharged effluents however this must be
River water nitrate levels	8, 9	Itchen: Fair	South East (2006) 50% of the SE is designated as surface or ground water Nitrate Vulnerable Zones (NVS)	run-off (mainly nitrate) due to increased concentrations as a result of population growth and agricultural intensification.	maintained to ensure the river and groundwater quality are preserved to high standards. Furthermore planned development in the south and climate change pose uncertainties in the future
Abstraction from groundwaters	9	groundwater. 59% of abstract Estimated public during warm dread low flow target to the water constrained abstraction into abstraction improchannel to the	water for South East provided by red water requires treatment. c water supply abstraction deficit y summers is of the order of 45MI/d for et of 270MI/d. This deficit is equivalent onsumption of some 250,000 people in Isle of Wight. The Otterbourne surface water ake, the public water supply oacts on the 7 kilometres of river Chickenhall sewage treatment works ockenhall sewage treatment works	Water supply in Hampshire is usually of high quality and resources depend on the groundwater stored in the chalk aquifers of the Hampshire Downs. Public water supply sources and large potable abstractions are protected from pollution by Source Protection Zones, which prevent polluting discharges to groundwater. Activities are controlled within Source Protection Zones, on Major Aquifers, and to some	The population of Hampshire, Portsmouth and Southampton is projected to increase by 11% between 2001 and 2021 this is likely, coupled with the effects of climate change, to increase demands on water supplies. Any new planned development may worsen the deficit if not managed in a sustainable manner.

Indicator	Data Source	Current Data	Comparators and targets	Trend	Issues/Constraints/ Opportunities
		abstraction doe	ge ensures that the Gaters Mill es not cause a fall in river flows to levels ne September naturalized flow.	extent Minor Aquifers. There are large SPZs across Hampshire particularly in the Downlands and central swathe in chalk dominated areas.	
Drought	37	No public water supply restrictions since 1977 in Winchester or Hampshire			
Properties at risk from flooding	10	In the River Test and Itchen Catchment Area economic damages due to flooding average £7million per year, with over 3,000 properties at risk.	South East: 310,000 properties at risk from coastal and river flooding	The risk has increased due to changes in the catchment (urbanisation, field drainage), houses built on inappropriate land encroaching on flood plains and the possible effects of climate change (increased flood generating rainfall more frequent).	Risks to people, property and infrastructure are concentrated predominately in Winchester, with further dispersed flood risks through rural villages. A flood warning system is in place, and being improved, with about half of known flood risk properties presently receiving a warning.

B.1.11 AIR QUALITY

Summary

Winchester City has one Air Quality Management Area which is improving. There have been no days when air pollution has been reported as moderate or higher. Nitrogen Dioxide levels are similar to 2004, meeting 24 hour mean objective but not complying with yearly mean objective. Previous studies show road traffic to be the main emission source of nitrogen dioxide.

Indicator	Data Source	Current Data	Comparators and targets	Trend	Issues/Constraints/ Opportunities
Topic: Air Quality					
Air Quality Management Areas (AQMAs)	12	1 - Winchester Town Centre (Nitrogen Dioxide and Particles)		The extent of the AQMA is considerably smaller when compared to the 2005 area of exceedence. However the results show that additional measures may be required to bring about the necessary reductions in traffic emissions in the city centre to comply with the 2010 EU Limit Values.	Unless the high levels of traffic in Winchester City centre can be reduced the AQMA will remain. However it can be used as incentive to increase the numbers of commuters using alternative sustainable transport to reduce emissions.
Automatic air monitoring sites	15	Winchester tow background site (Nitrogen dioxid St Georges Stre monoxide and Over forty nitrog	ir quality monitoring stations in on centre. These consist of a e at Lawn Street near Friarsgate de and Particles) and a roadside site in et (Nitrogen dioxide, Carbon particles). gen dioxide diffusion tubes monitoring ss both the town centre and the		

Indicator	Data Source	Current Data	Comparators and targets	Trend	Issues/Constraints/ Opportunities
			ed several lamppost mounted devices icle levels at three other locations centre.		
Number of days when air pollution reported as moderate or higher	15	0			
Pollutant levels (annual mean ug/m³)	15 16				
Benzene		Data Gap No locations tha	at require a detailed assessment.		
1,3-Butadiene		Data Gap No locations tha	at require a detailed assessment.		
Carbon monoxide		Data Gap No locations tha	at require a detailed assessment.		
Lead		Data Gap	at require a detailed assessment.		
Nitrogen dioxide		26.2mg/m3 Similar to 2004, inot complying in the service of the s	meeting 24 hour mean objective but with yearly mean objective. show road traffic to be the main of nitrogen dioxide		Unless the high levels of traffic in Winchester City centre can be reduced this will remain an issue. However it can be used as an incentive to increase the numbers of commuters using alternative sustainable transport, reducing emissions of nitrogen dioxide.
PM10		22.5mg/m3			

Indicator	Data Source	Current Data	Comparators and targets			Trend		Issues/Constraints/ Opportunities
		In compliance with 24 hour and yearly mean						
		objective						
Sulphur dioxide		Data Gap						
Sulphul dioxide		No locations that	at require a	detailed ass	etailed assessment.			
		PM10		NO2		СО		The situation is improving and the measures undertaken to
Exceedance of Air		50 ug/m3		200ug/m3 10		10mg/n	า3	
Quality Objectives		(24 hr mean)		(1 hr mea	mean) (8 hr running mean)		nning mean)	achieve this should be
Air Quality Data – Winchester Town		Background	Roadside	Backgroun d	Roadside	Backgro und	Roadside	continued and built upon.
Centre		8	15	0	0	N/A	0	
		Pass = less than	35	Pass = less	s than 18	Pass = n	o failures of objectives	1
		failures/year		failures/ye	ear	per yea	per year	

B.1.12 CLIMATIC FACTORS

Summary

There is no available data for Winchester City Council district so figures for the South East are given. The South East has the greatest volume of carbon dioxide emissions in the UK and overall the country has seen a rise in emissions of 12.4% since 1990. Total carbon dioxide emissions in 2006 for the South East were approximately 71 million tonnes. Energy from renewable sources account for only 0.65% of total current generating capacity in the region compared to the UK national average figure of 2.5%. Hampshire's sub-regional targets by 2010 is to generate at least 115MW and by 2016 at least 122MW. Hampshire, alongside the Isle of Wight, Kent, Thames Valley and Surrey have the greatest potential in the South East for onshore wind development and installation of photovoltaics.

Indicator	Data Source	Current Data	Comparators and targets		Trend		Issues/Constraints/ Opportunities	
Topic: Climatic Facto	Topic: Climatic Factors							
Climate Change			er the past century as risen by 0.5°C an	average d summer rainfall ha	as			
Carbon dioxide emissions		Winchester (tonnes C02/head):	SOUTH EAST Total	emissions 2004 (mill	ion tonnes car	bon dioxide)	The South East has the greatest volume in the UK and overall the country has seen a rise in	
		2003 Total -	commercial & public	2 011100110	Transport	7010.	emissions of 12.4% since 1990.	
		11.1 2003	25	21	23	69	As the South East is the greatest UK contributor to	
		Domestic - 2.7 2004 Total - 12 2004	SOUTH EAST Per c	apita emissions 2004	4 (tonnes carbo	on dioxide per	carbon dioxide emissions, Winchester should consider estimating its' carbon emissions and setting targets	

Indicator	Data Source	Current Data	Comparators and targets		Trend		Issues/Constraints/ Opportunities
		Domestic – 3.1	resident				for improvement.
		Hampshire: 16 million tones/year	Industrial, commercial & public	Domestic	Road Transport	Total	
			3.1	2.7	2.9	8.7	
			South East Total carbon dioxic 2006 approximatel UK Net emissions of caduring 2006 have pestimated at arour tonnes, about 5½ personnes	y 71 million tonnes arbon dioxide provisionally been and 560.6 million per cent lower	greatest volur overall the co	t produces the me in the UK and untry has seen a ns of 12.4% since	
Greenhouse gas emissions		Data Gap	UK: 718.5 million tonne:			ouse gases fell ent between the 90 and 2004	UK total fallen by 7.6% since 1990
Annual Average Concentration of Major Gases		Data Gap	National Air Strated 40µg/m3 Annual m achieved by 31/12 CO 10mg/m3 max mean (31/12/03)/ I Annual mean (31/20)/ 120µg/m3 Annual m	nean (to be 2/05)/ daily running PM10 40µg/m3 12/04)/ SO2			

Indicator	Data Source	Current Data	Comparators and targets	Trend	Issues/Constraints/ Opportunities
Current Renewable Generation Capacity		Hampshire and the Isle of Wight: Installed Operational Capacity 2006: 0.94MWe (Solar PV: 0.28; Bio and Sewage Gas: 0.34; Onshore Wind: 0.32)	South East installed renewable energy: 73 MW 1 MW – Onshore Wind 72 MW – Energy from Waste	Renewables account for only 0.65% of total current generating capacity in the region compared to the UK national average figure of 2.5%	New development offers opportunities to incorporate energy from renewable sources. The LDF can now set targets for the use of renew able energy in new development and also policies to facilitate provision of macro generation for existing dwellings.
Renewable Energy Targets		There are opportunities in the region for combustion plants, biogas plants, wind turbines, geothermal sources and photovoltaic installations.	By 2010 the South East is to generate at least 5.5% of electricity from renewable sources and by 2026 at least 16%.	Hampshire (sub-regional targets) by 2010 to generate at least 115MW and by 2016 at least 122MW.	The LDF can facilitate renewable energy development projects by including positive and enabling policies. Hampshire (sub-regional targets) by 2010 to generate at least 115MW and by 2016 at least 122MW. Hampshire, alongside the Isle of Wight, Kent, Thames Valley and Surrey have the greatest potential in the South East for onshore wind development and installation of photovoltaics.

B.1.13 SOILS & MINERALS

Summary

The district has three major soil groups; - Shallow lime-rich soils over chalk, freely draining lime-rich loamy soils and freely draining acid loamy soils. There district maintains an agricultural economy and there are 777 agricultural holdings. The emerging South East Plan requires that Hampshire should plan to maintain a landbank of at least seven years of permissions for land-won sand and gravel and a supply rate of 2.63 million tonnes a year until 2016.

Indicator	Data Source	Current Data	Comparators and targets	Trend	Issues/Constraints/ Opportunities				
Topic: Soil and Miner	Topic: Soil and Minerals								
Winchester		the south of the of the Cretaced the youngest of emerge to the	range is sedimentary and the deposits are district. The northern part of the district is ous period and forms part of the Hampshif the series and is the most common outcomed to be south east of Winchester, the other main a Meonstoke, Warnford and Old Winchester by clay.						
Major Soil groups		- Shallow limerich soils over chalk - Freely draining limerich loamy soils - Freely draining acid loamy soils	South East: - Shallow lime-rich soils over chalk - Freely draining lime-rich loamy soils - Freely draining acid loamy soils - Slowly permeable, seasonally wet, slightly acid but base-rich loamy and clayey soils - Naturally wet, very acid sandy and loamy soils	South East: - Shallow lime-rich soils over chalk - Freely draining lime-rich loamy soils - Freely draining acid loamy soils - Slowly permeable, seasonally wet, slightly acid but base-rich loamy and clayey soils - Naturally wet, very acid sandy and					
Agricultural Holdings	26	777	Hampshire: 4,204		The area still has a reasonable				

Indicator	Data Source	Current Data	Comparators and targets	Trend	Issues/Constraints/ Opportunities
2003 Agricultural Census			New Forest: 1,045 Basingstoke & Dean: 544 Fareham: 80 Southampton: 25		agricultural economy and support should be provided for this to continue.
Plan area's permitted reserves: Sand and Gravel	27	Data Gap	The estimated land bank of permitted reserves of sand and gravel in Hampshire at the beginning of 2005 was sufficient for only 4.15 years supply at current planned extraction rates - 2.7 million tonnes a year.		
Targets: Sand and Gravel	27		The emerging South East Plan requires that Hampshire should plan to maintain a landbank of at least seven years of permissions for land-won sand and gravel and a supply rate of 2.63 million tonnes a year until 2016.		Mineral workings can erode landscape value and restoration conditions should be in place for remediation when sites are worked out.

B.1.14 WASTE

Summary

Winchester has experienced both an increase in household waste arisings and a recent gradual improvement in recycling rates. Substantial improvements in recycling rates will be required to reach the 2005/6 statutory recycling target. There is a need to increase waste handling capacities in Winchester which may be addressed by Project Integra. Project Integra will seek to minimise the amount of waste needing landfill to a minimum practical level by 2020. Specifically, the partners will seek to divert the following amounts of municipal waste from landfill disposal: • 71% by 2010 • 79% by 2015 • 84% by 2020, and positively contribute to the achievement of the following MRS recycling and composting targets for all waste: • 50% by 2010 • 55% by 2015 • 60% by 2020. The Project Integra business plan also sets an overall target of 50% recycling for municipal waste by 2010 and an individual target of 40% for Waste Collection Authorities.

Indicator	Data Source	Current Data	Comparators and targets	Trend	Issues/Constraints/ Opportunities					
Topic: Waste	opic: Waste									
Total Municipal Arisings 2003/04 to 2004/05 (tonnes) Figures in brackets and italics relate to household waste arisings only	22	Winchester City Council 2003/04: 48 358 (43 761) 2004/05 (provisional): 49 313 (44 622)	2003/04 Fareham Borough Council: 43 567 Southampton City Council: 103 640 Hampshire: 876 468 (861 885) 2004/05 (provisional) Fareham Borough Council: 43 563 Southampton City Council: 104 603 Hampshire: 892 720 (846 041)	% Change Winchester: +2.0% Fareham: -0.01% Southampton: +0.9 Hampshire: +1.9	In line with the average for Hampshire, Winchester has seen a rise in household waste arisings. This is probably a product of an increasing population. As the County aims to reduce the amount of waste going to landfill this will have to be addressed. New development should have adequate space for storage of materials for recycling and composting where practical.					

Indicator	Data Source	Current Data	Comparators and targets		Trend	Issues/Constraints/ Opportunities
		Data Gap	HAMPSHIRE			
		·	Material Stream	Estimated tonnag (2003/04)	e % Composition	
			Paper and Card	284 422	33.0%	
Estimated Tonnage of			Putrescible	258 565	30.0%	
Household Waste by			Plastics	112 045	13.0%	
Material (2003/04):			Metals	43 094	5.0%	
			Textiles	43 094	5.0%	
			Glass Bottles/Jars	34 475	4.0%	
			Miscellaneous	86 188	10.0%	
			TOTAL	861 885	100.0%	
Landfill Targets for Hampshire	22	practical level l		the partners will seek	needing landfill to a minimum to divert the following	

Indicator	Data Source	Current Dat	a Com	parators a	ind target	ts	Trend			Issues/Constraints/ Opportunities
Waste Handled in Hampshire 2002/03 (including Portsmouth and Southampton)	26	Special (haz Municipal (N Commercial	pecial (hazardous): 91,610 t				waste the dis Eastlei Winch	s a need to handling ca tricts of Sou gh, Havant, ester, Fareh ort and East	apacities in thampton, Rushmoor, am,	This should be noted in the LDF and sites identified if necessary.
Imports and Exports	27	Hampshire v of in Hampsh	2002/3 approximately 18% of waste produced in ampshire was exported, whilst 13% of waste disposed f in Hampshire was imported from elsewhere. Target ate for achieving net self-sufficiency by 2016							
	22		1998/99 (actual %)	2000/01 (actual %)	2001/02 (actual %)	2002/03 (actual %)	2003/04 (actual %)	2004/05 (actual %)	2005/06 statutory target %)	Winchester has experienced a steady reduction in recycling rates and is a long way from the 2005/6 statutory target.
Actual rates of Recycling/ Composting 1998/99 - 2004/05 versus Statutory Standards for 2005/06		Hamp- shire East Hamp- shire	23 8	25 14	21 16	26 23	27.02 31.83	30.28 31.99	30 24	However Project Integra does appear to be addressing this through trial recycling collections and setting targets for future reduction.
		Eastleigh Fareham	26 19	39 16	27 17	28 22	29.99 22.09	31.52 22.16	30 30	

Indicator	Data Source	Current Da	ata	Comparators	and tare	gets	Trend	I		Issues/Constraints/ Opportunities
		Havant	17	17	18	16	18.50	21.20	30	
		New Forest	22	23	24	23	24.47	24.79	30	
		Test Valley	22	19	22	13	13.75	19.36	30	
		Winch- ester	21	22	14	16	17.33	17.48	30	
	22									
				Project Integra RS recycling an						
Recycling Targets for		• 50% by 20)10							
Hampshire		• 55% by 20)15							
		• 60% by 20)20							
				gra business pla by 2010 and a						

Indicator	Data Source	Current Data	Comparators and	rators and targets Tr			Issues/Constraints/ Opportunities
	22	Authority	Residual	Dry Mixed Recycl	ables	Green	
Collection Arrangements		Test Valley	Weekly wheeled bin (AWC from early 2007)	Fortnightly DMR w bin	heeled	Chargeable sack collected fortnightly	
		Winchester	Weekly wheeled bin (AWC in trial area)	Fortnightly DMR wheeled bin		Free reusable sack fortnightly in trial area	
Recycling Sites 2007	23	Glass: 61 Green, 46 Brown, 50 Clear 4 Glass Skip Banks. Paper: 26 Cans: 12 Books: 12 Textiles: 12	glass, paper and car engine oil and car b sites also accept pla	Hampshire: 26 sites accepting metals, glass, paper and card, cans, textiles, engine oil and car batteries, some ites also accept plastic bottles and garden waste for composting.			

Key to Data Sources

1	National Statistics 2001, Neighbourhood Statistics: Winchester, [online] available: http://neighbourhood.statistics.gov.uk/dissemination/LeadKeyFigures.do?a=7&b=276987&c=Winchester&d=13&e=16&g=45305 6&i=1001x1003x1004&m=0&enc=1 [accessed 5 March 2007]
2	Heritage, <i>The List</i> , [online] available: http://whc.unesco.org/en/list [accessed 7 March 2007]
3	Winchester City Council, Listed Buildings, [online] available: http://www.winchester.gov.uk/LeisureAndCulture/Conservation/ListedBuildings/ [accessed 7 March 2007]
4	English Heritage 2005, <i>Historic Battlefields</i> , [online] available: http://www.englishheritage.org.uk/server/show/nav.1436?PHPSESSID=d6c76eec2ae6cf5fa32a0a5a30f52477 [accessed 7 March 2007]
5	English Heritage, South East: Buildings at Risk, [online] available: http://www.english-beritage.org.uk/server/show/ConWebDoc.6749 [accessed 7 March 2007]
6	Winchester City Council 2006, <i>Buildings at Risk</i> , [online] available: http://www.winchester.gov.uk/EnvironmentAndPlanning/Conservation/BuildingsatRisk/ [accessed 7 March 2007]

7	Winchester City Council 2006, Conservation Areas, [online] available: http://www.winchester.gov.uk/EnvironmentAndPlanning/Conservation/ConservationAreas/ [accessed 8 March 2007]
8	Environment Agency 2007, <i>River Water Quality; Chemical and Biological</i> , [online] available: http://www.environment-agency.gov.uk/regions/southern/1168940/1169042/1174732/1213411/?version=1⟨=e [accessed 8 March 2007]
9	Environment Agency 2007, Water Quality and Resources, [online] available http://www.environment-agency.gov.uk/regions/southern/1168940/1169042/1174732/1213593/?version=1⟨=_e [accessed 8 March 2007]
10	Environment Agency 2007, <i>Properties at Risk from Flooding</i> , [online] available: http://www.environment-agency.gov.uk/regions/southern/1168940/1169042/1174782/1213694/?version=1⟨=_e [accessed 8 March 2007]
11	UK Air Quality Archive, Winchester City Council AQMA, [online] available: http://www.airquality.co.uk/archive/laqm/laqm.php?action=submit↦ name=fulluk&la id=314 [accessed 8 March 2007]
12	Winchester City Council 2002, Winchester City Council, An Inspection Strategy, [online] available: http://www.winchester.gov.uk/Documents/Strategies/contaminated_land.pdf [accessed 9 March 2007]
13	Winchester City Council, Winchester District Local Plan, [online] available: http://www.winchester.gov.uk/Documents/LDF/adoption/CountrysideNatlEnvironment.pdf [accessed 9 March 2007]
14	Winchester City Council 2004, <i>Environmental Strategy</i> , [online] available: http://www.winchester.gov.uk/Documents/Sustainability/Environment%20Strategy%202004-2008.doc [accessed 9 March 2007]

15	Winchester City Council 2006, Air Quality Within Winchester's District, [online] available:
	http://www.winchester.gov.uk/Documents/Pollution/USA2006.pdf [accessed 12 March 2007]
16	Winchester City Council 2005, Air Quality, [online] available:
	http://www.winchester.gov.uk/Documents/Pollution/AirQuality2005.pdf [accessed 12 March 2007]
17	English Nature 2007, Natural Areas, [online] available: http://www.english-
	nature.org.uk/Science/natural/NA_Details.asp?N=&R=6&NA_Id=75 [accessed 12 March 2007]
18	Winchester City Council 2006, <i>Listed Buildings</i> , [online] available:
'0	http://www.winchester.gov.uk/LeisureAndCulture/Conservation/ListedBuildings/ [accessed 12 March 2007]
19	Winchester City Council 2006, Summary of the District's Historic Buildings at Risk Register for 2005/06, [online] available:
	http://www.winchester.gov.uk/Documents/Conservation/buildingsatriskummary0506.pdf [accessed 12 March 2007]
20	HCC Waste Management Team, September 2005. Project Integra Statistics 2004/05, [online] available:
	http://www.integra.org.uk/about/stats200405.html (accessed 12 March 2007)
21	Communities and Local Covernment 2004/07 Local Covernment Performance: Winchester Indinal available:
21	Communities and Local Government 2006/07, Local Government Performance: Winchester [online] available: http://www.bvpi.gov.uk/pages/KeyFacts_BVPl.asp?map=2&aid=222 (accessed 12 March 2007)
	intp.// www.bvp.gov.div pages/ keyracis_bvr.lasp.map=zadia=zzz (accessed 12 March 2007)
22	http://www.integra.org.uk/board/index.html
23	http://www.integra.org.uk/about/ywys.html#Winchester

24	http://www.visionofbritain.org.uk/data cube chart page.jsp?data theme=T LAND&data cube=N LAND2001&u id=10168200 &c_id=10001043&add=Y
25	http://www.see-stats.org/stats-hampshire-iow.htm
26	http://www3.hants.gov.uk/revised_joint_baseline_report.pdf
27	http://www.jobs.hants.gov.uk/strategy_inc_changes_17-01-8.pdf
28	National Statistics 2004, <i>The impact of UK households on the environment through direct and indirect generation of greenhouse gases,</i> [online] available: http://www.statistics.gov.uk/downloads/theme environment/Impact of households final report.pdf [accessed 12 March 2007]
29	Natural England 2007, Sites of Special Scientific Interest – Hampshire, [online] available: http://www.english-nature.gov.uk/special/sssi/searchresults.cfm?sssi_name=&frmcounty=1019 [accessed 13 March 2007]
30	Hampshire County Council 2005, Baseline Report, [online] available: http://www3.hants.gov.uk/revised_joint_baseline_report.pdf [accessed 12 March 2007]
31	Winchester City Council 2000, Winchester Movement and Access Plan, [online] available: http://www.hants.gov.uk/scrmxn/c30330.html [accessed 15 March 2007]

32	National Statistics 2001, Winchester Neighborhood Statistics, [online] available: http://www.neighbourhood.statistics.gov.uk/dissemination/LeadDatasetList.do?a=3&b=276987&c=winchester&d=13&g=453056 &i=1001x1003&m=0&enc=1&domainId=16 [accessed 16 March 2007]
33	South East England Regional Assembly 2006, SA of the South East Plan; Appendices – Review of Baseline Data, [online] available http://www.southeast-ra.gov.uk/southeastplan/key/sustainability/AnnexB.pdf [accessed 19 March 2007]
34	National Statistics 2004, <i>Travel to School</i> , [online] available: http://www.statistics.gov.uk/CCI/nugget.asp?ID=1576&Pos=1&ColRank=2&Rank=448 [accessed 20 March 2007]
35	Hampshire County Council 2006, Local Transport Plan; Chapter 3, [online] available: http://www3.hants.gov.uk/ltp06-chapter3.pdf [accessed 20 March 2007]
36	Winchester City Council 2005, Parking in Winchester, [online] available: http://www.winchester.gov.uk/Documents/Parking/parkinginwinchesterleaflet2005.pdf [accessed 20 March 2007]
37	Environment Agency, <i>Draft drought plan for Southern region Hampshire and Isle of Wight area</i> , [online] available: http://publications.environment-agency.gov.uk/pdf/GESO0606BKYR-e-e.pdf [accessed 20 March 2007]
38	Defra 2006, e-Digest Statistics about: Inland Water Quality and Use, [online] available: http://www2.defra.gov.uk/environment/statistics/inlwater/rq/lareport.asp?LocalAuth=249 [accessed 20 March 2007]

39	Defra 2006, Estimated abstractions from groundwater, [online] available: http://www.defra.gov.uk/environment/statistics/inlwater/download/xls/iwtb23d.xls [accessed 20 March 2007]
40	Defra 2006, Annual average, highest and lowest mean concentrations of nitrate by region, [online] available: http://www.defra.gov.uk/environment/statistics/inlwater/download/xls/iwtb09b.xls [accessed 20 March 2007]
41	South East Historic Environment Forum 2006, <i>The State of the South East's Historic Environment 2006</i> [online] available: http://www.english-heritage.org.uk/hc2006/upload/pdf/HC_2006_South_East_DATA.pdf [accessed 3 May 2007]
42	Winchester City Council 2002, Winchester Housing Needs Survey [online] available: http://www.winchester.gov.uk/Documents/LDF/HousingNeeds.pdf [accessed 8 May 2007]
43	Tracking Change in the Character of the English Landscape (1999-2003) 2007, Countryside Quality Counts (CQC) [online] available: http://www.cqc.org.uk/publications/CQC Report.pdf
44	The Economic Impact of Tourism Winchester District 2004, Tourism South East [online] available: http://www.visitwinchester.co.uk/dbimgs/Winchester%20Tourism%20Economic%20Impact%20Summary%202005.pdf
45	A Tourism Strategy for the Winchester District 2004 -2008 [online] available: http://www.visitwinchester.co.uk/site/research/tourism-strategy