

WEST MIDLANDS REGIONAL AGGREGATES
WORKING PARTY

ANNUAL
REPORT
2003

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CONTENTS

1. INTRODUCTION	1
2. THE WEST MIDLANDS REGION	2
3. SUB-REGIONAL APPORTIONMENT	3
4. SAND & GRAVEL	5
5. CRUSHED ROCK	8
6. RECYCLING AND SECONDARY AGGREGATES	11
7. RECYCLING OF ROAD PLANINGS	12
8. PLANNING APPLICATIONS DURING 2002	14
9. REGIONAL SUMMARY: EVENTS OF INTEREST	15
10. DEVELOPMENT PLANS	18
Appendix 1 Membership of the WMRAWP at November 2003	21
Appendix 2 Working Party Publications	22
Appendix 3 Active and Inactive Aggregate Mineral Workings in the West Midlands Region	23
Appendix 4 Active Aggregate Recycling Sites in the West Midlands Region	27
Appendix 5 Sand & Gravel applications 2003	29
Appendix 6 Crushed Rock applications 2003	31
Appendix 7 Recycled Aggregate applications 2003	32

WEST MIDLANDS REGION MINERAL PLANNING AREAS



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1. INTRODUCTION

- 1.1 This Annual Report for 2003 has been prepared by the West Midlands Regional Aggregates Working Party (WMRAWP). The WMRAWP is a technical working group and was established in the 1970's, along with nine other working parties covering other regions. The group plays a major role in data collection, collation and monitoring and provides advice on future regional trends, together with the environmental and other implications of meeting Government demand forecasts. As well as enabling the mineral planning authorities within the region to formulate plans and policies which reflect national and regional needs, the WMRAWP provides an input into the production of Regional Planning Guidance and Central Government guidelines for aggregates provision.
- 1.2 The WMRAWP draws its members from the MPAs in the region together with representatives from the minerals industry (through its trade associations with the Quarry Products Association and the British Aggregates Association (BAA)), the Office of the Deputy Prime Minister (ODPM), the National Federation of Demolition Contractors (NFDC), the Department for Environment, Food and Rural Affairs (DEFRA) and the Government Office for the West Midlands (GOWM). A current list of members is contained in Appendix 1.
- 1.3 The report includes the results of the annual monitoring survey of aggregate sales in the Region for 2003. Since the publication of the previous annual report, new national guidelines for the supply of aggregates in England have been issued. The "National and Regional Guidelines for Aggregates Provision in England 2001-2016" published in June 2003 supersedes the advice contained in Minerals Planning Guidance Note 6 (MPG6) "Guidelines for Aggregates Provision in England", published in 1994. The new guidelines have been used throughout this report. A sub-regional apportionment of the guidelines was approved by the Regional Planning Body on 5th December 2003 and replaces the previous apportionment. This is discussed in detail in Chapter 3.
- 1.4 In addition to presenting statistical information on the primary aggregate minerals industry in the Region, the report describes recycling and the use of secondary aggregates. It also includes details of relevant planning applications and permissions made or determined during 2003. Lists of active and inactive aggregate mineral sites, including statutorily dormant sites and aggregate recycling sites in the region are included in Appendices 3 and 4 respectively. The status of Development Plans throughout the region is reported.
- 1.5 The statistical information on sales has been provided by the minerals industry and has been collected and collated by individual mineral planning authorities (MPAs) prior to collation at a regional level. Reserve figures have in part been provided by industry but in some cases they have been deduced from previous reserve figures. The response to the survey by industry has been good across the region and so figures in this report are, in general, highly accurate.
- 1.6 Throughout the report the rules on confidentiality of data, agreed with the Quarry Products Association (QPA) have been maintained. In general, data from QPA member companies is no longer treated as confidential and may be displayed to individual company level. For non-QPA members the previous rule, which specifies that sales information relating to the operations of fewer than three companies is confidential and cannot be published or otherwise made public unless the companies agree in writing, has been adhered to. Both rules apply to both primary and secondary aggregate operations. Where confidentiality matters preclude the release of data, this is indicated in the associated table.
- 1.7 During 2003 the WMRAWP held four meetings in total, taking place on 28th January 2003, 17th June, 13th October and 8th December. The main area of discussion was the revised sub-regional apportionment figures which is stated in more detail in section 3. The issue the Welsh Technical Advice Note 1 for Aggregates, and the implications for supply to the West Midlands Region, was also raised at a number of the meetings. Other items considered at the meetings included the Water Bill, CAA Guidelines and their impact on quarrying, and the proposed changes to the West Midlands RPG and Consultation Planning Policy Statements PPS11 and PPS12.
- 1.8 Working Party publications are set out in Appendix 2.

2. THE WEST MIDLANDS REGION

2.1 The West Midlands Region at **1st January 2003** comprised:

Four Shire Counties:

Shropshire
Staffordshire
Warwickshire
Worcestershire

Three Unitary Authorities:

Herefordshire
Stoke-on-Trent (formerly part of Staffordshire)
Telford & Wrekin (formerly part of Shropshire)

and the

Metropolitan Districts of the West Midlands County Area:

Birmingham
Coventry
Dudley
Sandwell
Solihull
Walsall
Wolverhampton

2.2 All non-statistical information in this report has been presented under these areas as appropriate. Statistical information is presented separately for all areas except the metropolitan districts of the West Midlands County Area (WMCA), Stoke-on-Trent and Telford & Wrekin. Due to the small amount of mineral working the WMCA authorities are combined. Stoke-on-Trent is combined with its former county of Staffordshire and Telford & Wrekin is combined with Shropshire. In the case of both authorities, the areas share joint Minerals Local Plans with the respective County Councils and they are still combined with the former counties for landbank calculation purposes. For Herefordshire and Worcestershire calculations of landbank are presented separately for the second time. This is possible following the introduction of the revised sub-regional apportionment. In cases where issues of confidentiality preclude separate publication, figures have been combined to enable the presentation of as much information as possible.

3. SUB-REGIONAL APPORTIONMENT

- 3.1 National Aggregates Monitoring (AM) Surveys of sales, reserves and distribution have generally been carried out on a four yearly basis and have provided the framework in which to consider updates to the guidelines on aggregates provision. The most recently published survey took place in 2001 (AM2001) with the results of the national collation being published in April 2003. In June 2003 new National and Regional Guidelines for Aggregates Provision in England were published. These supersede the previous guidelines contained in MPG6. The new guidelines have been used in the preparation of this report. A draft sub-regional apportionment was prepared by the WMRAWP and agreed by mineral planning authorities. This was passed to the Regional Planning Body in October 2003 and was approved on 5th December 2003.
- 3.2 The new guidelines state that an estimated 359mt of aggregate materials will need to be provided for in the West Midlands Region during the period 2001–2016. The guidelines assume that 88mt will be provided from alternative aggregate sources and 16mt will be imported from Wales. Thus the West Midlands will need to provide for 255mt of primary aggregate. 162mt of this is anticipated to be sand and gravel and 93mt crushed rock. MPAs in the region are expected to make the necessary provision in their development plans.
- 3.3 The regional totals set out above were apportioned between the areas within the region as follows:
- 3.4 For each area within the region, the proportional regional share (%) of production, based on the average of sales figures for 1999–2001, was calculated. Tables 1 and 3 below show the results of this calculation.

Sand & Gravel

Table 1: Proportional Share (%) of Regional Sand & Gravel Production for Each County

(production figures in million tonnes)

Sand & Gravel	1999 Production	2000 Production	2001 Production	Average Production	Average %
Herefordshire	0.297	0.289	0.261	0.282	2.8
Worcestershire	0.887	0.839	0.836	0.854	8.5
Shropshire	0.808	0.742	0.857	0.802	8.0
Staffordshire	6.589	6.442	6.411	6.481	64.8
Warwickshire	1.017	1.043	1.031	1.030	10.3
W. Midlands County	0.474	0.481	0.536	0.497	5
Regional Total	10.072	9.836	9.932	9.945	

- 3.5 It is assumed that sand and gravel provision will remain at similar levels throughout the 16 year period covered by the guidelines. The total figure for sand and gravel in the West Midlands Region (162mt) was therefore apportioned between the counties by multiplying this figure by each county's average proportional production and dividing the result by 16 years to produce an annual figure.

Table 2: Annual Apportionment of Sand & Gravel

Sand & Gravel	Apportionment of Regional Guidelines	Annual Provision
Herefordshire	162mt x 2.8% ÷ 16	0.283 mt
Worcestershire	162mt x 8.6% ÷ 16	0.871 mt
Shropshire	162mt x 8.1% ÷ 16	0.820 mt
Staffordshire	162mt x 65.2% ÷ 16	6.602 mt
Warwickshire	162mt x 10.3% ÷ 16	1.043 mt
W. Midlands County	162mt x 5% ÷ 16	0.506 mt
Regional Total	10.125mt	

Crushed Rock

Table 3: Proportional Share (%) of Regional Crushed Rock Production for Each County

(production figures in million tonnes)

Crushed Rock Production	1999 Production	2000 Production	2001 Production	Average %	Average
Herefordshire	#	#	#	0.42	7.3
Worcestershire	#	#	#	0.16	2.8
Shropshire	2.80	2.64	2.49	2.64	45.8
Staffordshire	1.48	1.33	1.33	1.38	24.0
Warwickshire	0.62	0.57	0.57	0.59	10.2
W. Midlands County	0.72	0.45	0.53	0.57	9.9
Regional Total	6.23	5.56	5.49	5.76	

denotes figures not shown for reasons of confidentiality

- 3.6 It is assumed that crushed rock provision will remain at similar levels throughout the 16 year period covered by the guidelines. The total figure for crushed rock in the West Midlands Region (93mt) was therefore apportioned between the counties by multiplying this figure by each county's average proportional production and dividing the result by 16 years to produce an annual figure.

Table 4: Annual Apportionment of Crushed Rock

Crushed Rock Regional Guidelines	Apportionment of Provision	Annual
Herefordshire	$93\text{mt} \times 7.3\% \div 16$	0.424 mt
Worcestershire	$93\text{mt} \times 2.8\% \div 16$	0.163 mt
Shropshire	$93\text{mt} \times 45.8\% \div 16$	2.662 mt
Staffordshire	$93\text{mt} \times 24.2\% \div 16$	1.395 mt
Warwickshire	$93\text{mt} \times 10.2\% \div 16$	0.593 mt
W. Midlands County	$93\text{mt} \times 9.9\% \div 16$	0.575 mt
Regional Total	5.812mt	

- 3.7 However, the WMCA had an estimated crushed rock landbank at 1st January 2002 of between 3 and 4 years and this cannot be replaced. Therefore a further apportionment of the WMCA share has been agreed. Once production ceases, the 0.575mt share will be divided equally between Warwickshire and Shropshire, which are the only counties with availability of a similar rock type. A revised apportionment, to come into effect once production in the WMCA ceases in approximately 2 years, is set out in Table 5 below.

Table 5: Annual Apportionment of Crushed Rock After Production Ceases in West Midlands County Area

Crushed Rock	Apportionment of Regional Guidelines	Annual Provision
Herefordshire	$93\text{mt} \times 7.3\% \div 16$	0.424 mt
Worcestershire	$93\text{mt} \times 2.8\% \div 16$	0.163 mt
Shropshire	$93\text{mt} \times 45.8\% \div 16 + 0.02875 \text{ mt}$	2.949 mt
Staffordshire	$93\text{mt} \times 24.2\% \div 16$	1.395 mt
Warwickshire	$93\text{mt} \times 10.2\% \div 16 + 0.2875 \text{ mt}$	0.88 mt
W. Midlands County	No apportionment	0
Regional Total		5.812mt

- 3.8 It is anticipated that once production figures are available for the 3 years following the cessation of production in the WMCA, a revision of the sub-regional apportionment for crushed rock will be agreed. This will reflect the true distribution of production rather than an assumed position.

4. SAND & GRAVEL

- 4.1 Sand and Gravel deposits are worked throughout the region with the greatest production concentrated in Staffordshire (65.56% in 2002).
- 4.2 In 2002 there were 57 active sand and gravel quarries in the West Midlands Region with a further 25 inactive sites containing permitted reserves. Details of these are set out in Appendix 3.

Sales

- 4.3 Table 6 below shows total sales of sand and gravel by MPA area except in the case of the former WMCA for which individual MPA returns have been combined. To allow comparisons to be made, figures for the four year period from 2000 are shown.

Table 6: Sand & Gravel Sales for Aggregate Purposes 2000-2003

(million tonnes)

Sand & Gravel	2000	2001	2002	2003
Herefordshire & Worcester	1.128	1.097	~	~
Herefordshire	0.289	0.261	0.236	0.254
Worcestershire	0.839	0.836	0.833	0.890
Shropshire	0.742	0.857	0.841	0.822
Staffordshire	6.442	6.411	6.196	6.264
Warwickshire	1.043	1.031	0.854	0.827
W. Midlands County	0.481	0.536	0.512	0.499
Regional Total	9.836	9.932	9.472	9.556

~ no longer shown as a combined figure since the sub-regional apportionment now relates to the individual counties

Table 7: Distribution of Sand & Gravel Sales During 2002

Sand & Gravel	2002 (%)	2003 (%)
Herefordshire	2.5	2.66
Worcestershire	8.8	9.31
Shropshire	9.0	8.60
Staffordshire	65.3	65.56
Warwickshire	9.0	8.65
W. Midlands County	5.4	5.22
100	100	

Table 8: Annual Apportionment of Sand and Gravel with 2003 Sales figures

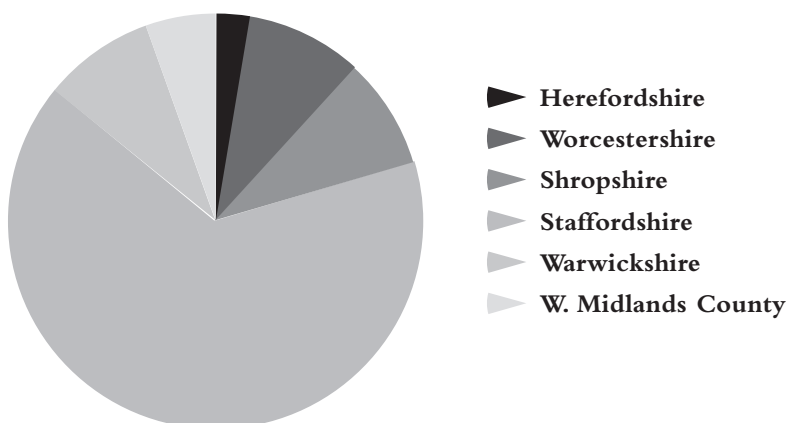
(million tonnes)

Annual Apportionment	2003 Sales	Variation	
Herefordshire	0.283	0.254	-0.029
Worcestershire	0.871	0.890	+0.019
Shropshire	0.820	0.822	+0.002
Staffordshire	6.602	6.264	-0.338
Warwickshire	1.043	0.827	-0.216
W. Midlands County	0.506	0.499	-0.007

4.4 Comparison of 2002 figures with 2003

Overall Sand & Gravel sales for the region show a slight increase from 2002 figures. This is the fourth consecutive year in which sales have fallen below the 10 million tonnes and remain below the overall Regional Apportionment level. This can be explained by the low sales figures for the counties of Staffordshire and Warwickshire with the other Planning Authorities showing little variation

Distribution of Sand & Gravel Sales during 2003 by County



4.8 The full breakdown of sales figures is incomplete for 2003 but it is hoped that the 2004 returns will be sufficiently comprehensive to allow a full and accurate analysis of end uses.

Reserves

4.9 Table 9 shows the sand and gravel reserves within the region for the years 1999-2002 by mpa area. The figures include reserves at both active and inactive sites.

Table 9: Sand & Gravel Reserves 2000-2003

(million tonnes)

Sand & Gravel	31.12.00	31.12.01	31.12.02	31.12.03
Herefordshire & Worcester	14.439	14.329	~	~
Herefordshire	5.236	4.854	4.671	5.95
Worcestershire	9.203	9.475	8.445	6.43
Shropshire	16.98	16.485	15.347	14.80
Staffordshire	98.001	96.37	101.466	103.80
Warwickshire	13.463	13.068	12.265	9.29
W. Midlands County	3.838	3.561	3.578	3.02
Regional Total	146.721	143.813	145.772	143.29

~ no longer shown as a combined figure since the sub-regional apportionment now relates to the individual counties.

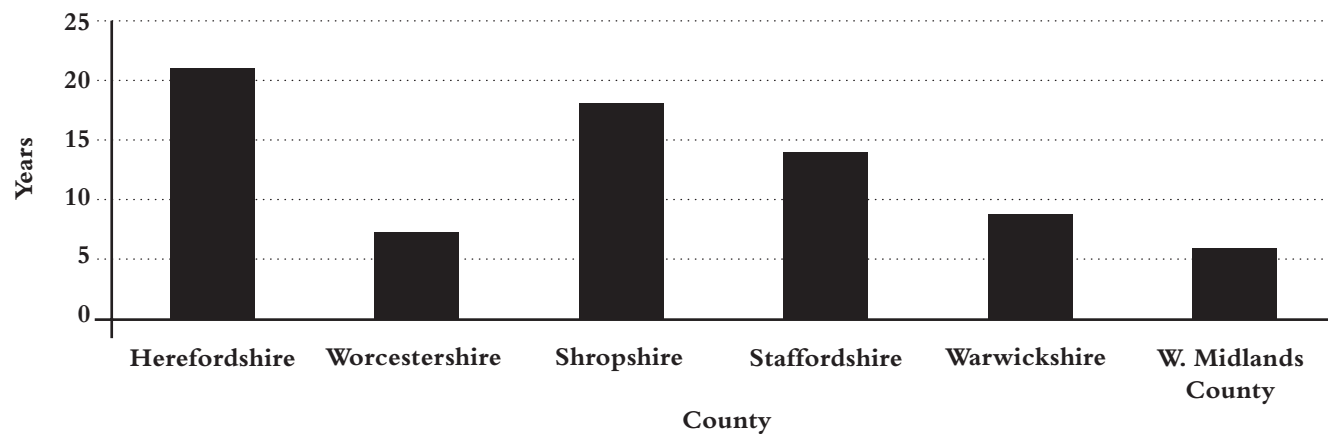
Landbanks

- 4.15 For the fifth year landbanks for all areas have been calculated in accordance with guidance in paragraph 81 of MPG6 which indicates that, where a Minerals Local Plan or Unitary Development Plan (UDP) has been adopted which reflects the local apportionment of the Regional Guidelines, the landbank requirement should be calculated using the provision included in the development plan. Relevant plans have been adopted in all areas.
- 4.16 Table 10 shows landbanks for 2001, 2002 and 2003. Although the same method of landbank calculation has been used in all three years, the figures cannot be meaningfully compared because those for 2002 and 2003 are calculated according to the amended sub-regional apportionment.

Table 10: Sand and Gravel Reserves 2003 and Landbanks 2001 to 2003

Sand and Gravel	Landbank at 31.12.01 (years)	Landbank at 31.12.02 (years)	Reserves At 31.12.03 (million tonnes)	Local Apptmentmt per annum	Landbank at 31.12.03 (years)
Hereford & Worcestershire	9.4	-	-	-	-
Herefordshire	-	16.5	5.95	0.283	21.0
Worcestershire	-	9.7	6.43	0.871	7.38
Shropshire	14.77	18.7	14.80	0.820	18.01
Staffordshire	12.04	15.4	92.58	6.602	14.02
Warwickshire	16.0	11.8	9.29	1.043	8.91
W Midlands County	6.6	7.1	3.02	0.506	5.97

Landbanks for Sand Gravel at 31. 12. 03



5. CRUSHED ROCK

- 5.1 Rock is worked for aggregate purposes throughout the region. A range of different rock types is worked, including limestone; ironstone; sandstone; (including quartzite); and igneous rock including high PSV diorite, suitable for use in road surfacing. The largest producer of crushed rocks is Shropshire, which produced 45.3% of the regional total in 2002, with further contributions being made by Staffordshire (19.3%), West Midlands County (14.7%) and Warwickshire (12.9%).
- 5.2 There were 17 active quarries producing crushed rock in the West Midlands Region in 2002. These comprised 8 limestone/dolomite quarries, 5 igneous, metamorphic quarries and an ironstone quarry. In addition there were a further 12 inactive sites containing permitted reserves. Details of these are set out in Appendix 3.

Sales

- 5.3 Table 11 below shows total sales of crushed rock for aggregate purposes by MPA area. For comparative purposes, figures for the four year period between 1999 and 2002 are shown.

Table 11: Crushed Rock Sales for Aggregate Purposes 1999 - 2001

(million tonnes)

Crushed Rock	2000	2001	2002	2003	% Share for 2003
Hereford & Worcestershire	0.57	0.57	~	~	-
Hereford	#	#	0.50	0.42	7.7
Worcestershire	#	#	©	©	-
Shropshire	2.64	2.49	2.51	2.46	45.3
Staffordshire	1.33	1.33	1.19	1.05	19.3
Warwickshire	0.57	0.57	0.45	0.70	12.9
W Midlands County	0.45	0.53	0.63	0.80	14.7
Regional Total	5.56	5.49	5.28	5.43	100

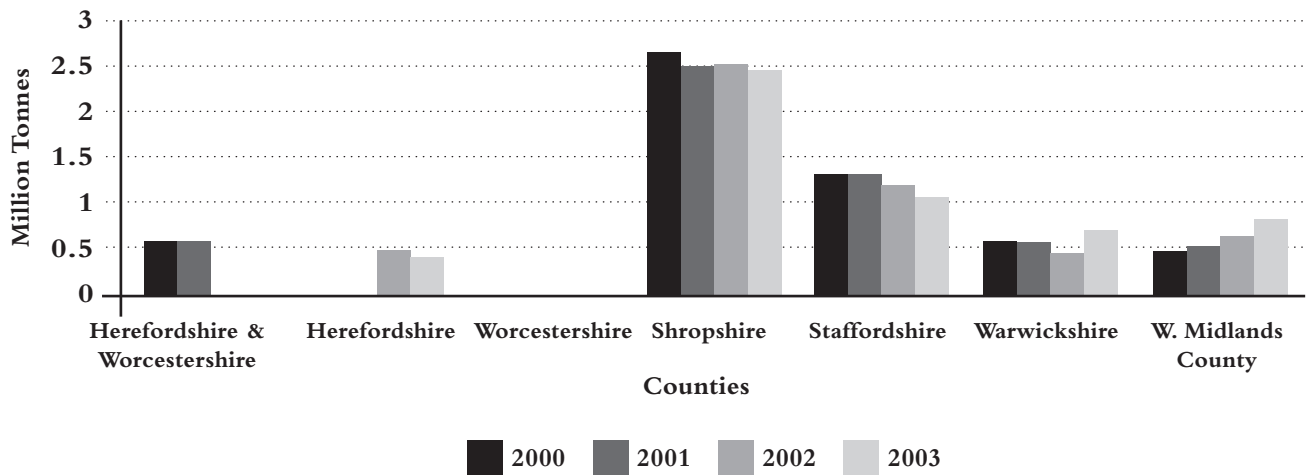
~ no longer shown as a combined figure since the sub-regional apportionment now relates to the individual counties

denotes figure not shown for reasons of confidentiality

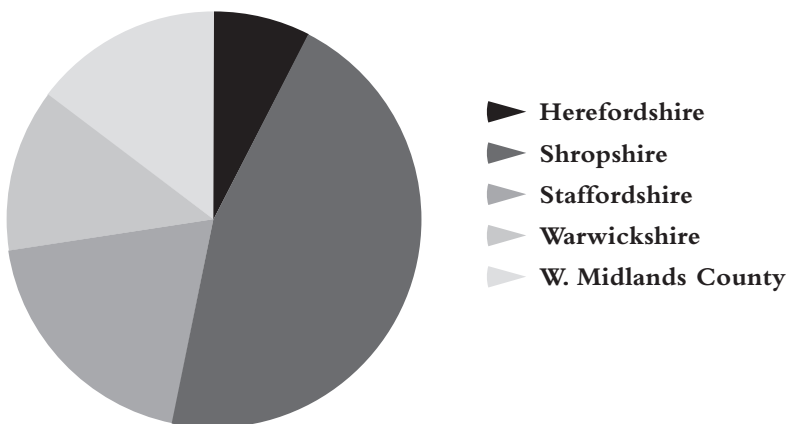
© denotes figure combined with Herefordshire for reasons of confidentiality

- 5.4 Sales of crushed rock rose between 2002 and 2003 reversing the trend of the past eight years. Shropshire remains the largest single producer accounting for 45.3% of total production with Warwickshire showing the biggest increase.
- 5.5 With the adoption of new sub-regional apportionment values in 2003, sales figures for 2003 generally accord well with the new annual apportionments. The apportionment total for crushed rock production in the West Midlands is 5.812mt and total actual production for 2003 was 5.43mt which is 6.6% below the regional guideline figure.

Table 12: Annual Production of Crushed Rock 1999-2003



Distribution of Crushed Rock Sales During 2003



Reserves

5.6 Table 13 shows the crushed rock reserves in the region, by county area, for the years 2000 to 2003. The figures include reserves at both active and inactive sites. It is clear that overall reserves have remained relatively constant since 2000 across the region.

Table 13: Crushed Rock Reserves 2000-2003

(million tonnes)

Crushed Rock	31.12.00	31.12.01	31.12.02	31.12.03
Hereford & Worcester	15,447	12.959x	-	-
Herefordshire	14,363	11.81x	17.280	16.96
Worcestershire	1,084	1.149	0.657	confidential
Shropshire	97.15x	95.998x	93.569	87.4
Staffordshire	165.7x	165.131	163.856	176.15
Warwickshire	30.616x	33.09x	32.537	31.5
W.Midlands County	2.83x	2.30	1.66	1.08
Regional Total	311.743	309.485	309.559	313.63

X denotes figure includes reassessment of reserves

E denotes estimate of reserves

5.7 Regional reserves are dominated by limestone which accounts for 70% of the total crushed rock reserve. Igneous and metamorphic rocks make up 21% and sandstone (including quartzite) a further 9%. Ironstone reserves are very small, accounting for less than 0.05% of the total. Under 1% of crushed rock reserves are allocated for non-aggregate uses.

Landbanks

5.8 Table 15 below shows landbanks for crushed rock between 2001 and 2003. Landbanks for 2002 have, for the first year, been calculated using the apportionment method set out in paragraph 81 of MPG6. However, the new sub-regional apportionment figures have been used for 2002 and the new local apportionments from which the landbank figures for 2002 are derived, are also shown.

Table 14: Crushed Rock Reserves 2002 and Landbank 2001 – 2003

Crushed Rock	Landbank at 31.12.01 (years)	Landbank at 31.12.02 (Years)	Reserves at 31.12.03 (million tonnes)	Local Apptmnt (mt per annum)	Landbank at 31.12.03 (Years)
Hereford & Worcester	17.75	-	-	-	-
Herefordshire	-	40.8	16.96	0.424	40
Worcestershire	-	4.0	*	0.163	3.31
Shropshire	27.4	35.15	87.4	2.662	32.83
Staffordshire	53.1	117.46	176.15	1.395	126.27
Warwickshire	15.836	54.9	31.5	0.593	53.12
W. Midlands County	4.1	2.9	1.08	0.575	1.89

* Reserves for Worcester are classified as in 2003 only 1 crushed rock quarry was in operation.

Table 15 Landbanks for Crushed Rock at 31.12.03 by County (Graph)



5.9 In all areas, except the WMCA and Worcestershire, crushed rock landbanks remain in excess of 30 years. In anticipation of the West Midlands County Area being unable to continue to supply its share of the regional demand, a revised sub-regional apportionment, as set out in Chapter 3, has been agreed for when crushed rock ceases to be available from the area. This is expected to be around the end of 2007. There is also a possibility that Worcestershire will be unable to maintain supplies in the medium term due to environmental constraints on releasing new reserves. This matter will be reviewed by the WMRAWP when the situation becomes clearer through the review of the Worcestershire Minerals Local Plan.

6 RECYCLING AND SECONDARY AGGREGATES

- 6.1 National surveys of secondary and recycled aggregate arisings were undertaken for 2001 and 2003 by the Symonds Group on behalf of ODPM. These figures continue to suggest that the quantities of recycled aggregate in the West Midlands Region are much higher than the figures being collected by the WMRAWP.
- 6.2 Table 16 below shows the quantities of secondary and recycled aggregate known to have been sold in the region over the past five years.

Table 16: Recycled and Secondary Materials Sold as Aggregate in the West Midlands Region

(tonnes)

	1999	2000	2001	2002	2003 **
Secondary material	223,922	248,978	550,000*	187,800	
Recycled to regular size/specification	-	232,979	550,000*	685,007	
Recycled to mixed size/specification	-	259,248	-	115,530	
Other/unknown #	462,730	-	3,710,000*	221,714	
Total	686,652	740,987	4,260,000*	1,210,051	

* figures based on findings of surveys of arisings and use of secondary materials and construction and demolition waste in England and Wales in 2001, carried out for ODPM by the Symonds Group.

** Refer to Table 17 using figures from the Survey of Arisings and Use of Construction, Demolition and Excavation Waste as Aggregate in England in 2003.

figures exclude road planings

Table 17. West Midlands Regional Estimates for the use/disposal of Construction & Demolition and Excavation Waste 2001 and 2003, (million tonnes).

Taken from Survey of Arisings and Use of Construction and Demolition Waste in England and Wales, ODPM, 2001 and 2003 reports.

	2001	2003
Used as Recycled Aggregate	3.71	4.29
Used as Recycled Soil	0.57	0.65
Disposed of at Landfill	0.40	0.73
Other	3.94	2.46
Total	8.62	8.13

- 6.3 Due to the lack of comprehensive data for the sales of recycled aggregates for the West Midlands region in 2003 it is unclear whether there has been an increase or decrease in this figure. However, using the figures from table 17 it is clear that recycling of this type of waste is increasing. There is slight increase in material going to landfill but the report states that this is largely statistically insignificant.
- 6.3 The new National and Regional Guidelines for Aggregate Provision in England, 2001 – 2016 assume that over the period of the guidelines, alternative materials will contribute 88mt towards the regional demand of (5.5mt per annum). Continued efforts need to be made throughout the region to ensure that opportunities for recycling and re-use of aggregate material are maximised if these levels are to be achieved and maintained.

7 RECYCLING OF ROAD PLANINGS

- 7.1 Following a highly successful pilot survey of road planing arisings which was carried out in the Yorkshire and Humberside Region, a national survey was launched by the then DTLR commencing with statistics for 1997. This therefore, is the seventh year of the survey.
- 7.2 Statistics for all County roads are collected by RAWP Technical Secretaries and the results of surveys appear in Regional Annual Reports. Other statistics are collected by the Office of the Deputy Prime Minister (ODPM) through consultation with the major planing companies in England.
- 7.3 In 2003 only eight of the fourteen authorities made returns based on Bills of Returns with some informal estimates. For those authorities which have not responded, estimated figures have been used which may adversely effect the accuracy of the overall totals for the region.

Table 18 below shows the total arisings in each of the past 4 years and of this the amount known to have been recycled or re-used and the amount removed by contractors to an unknown destination.

Table 18: Arisings and destiny of Road Planings from Local Authority Roadworks 1999 – 2003

(tonnes)

	Regional Total of Road Planings arisings	Quantity Recycled or re-used	(%)	Quantity removed by contractors destiny unknown	(%)
1999	188,800	70,075	(42%)	77,987	(41%)
2000	185,309	79,738	(43%)	103,926	(56%)
2001	236,387	125,254	(53%)	92,205	(39%)
2002	328,770	130,272	(40%)	184,093	(56%)
2003	301,429	127,511	(42%)	175,168	(58%)

- 7.4 The total arisings for 2003 were 301,429 tonnes (this figure includes an assumed sum for the missing authorities, based on the 2002 returns). The survey returns continue to demonstrate the increased commitment towards the recycling of road planing materials but with 56% unaccounted for the figures suggest the need for better controls or record keeping to encourage re-use of these resources.
- 7.5 Table 18 below sets out the detailed results of the road planings survey of the region.

Table 19: Road Planings Arisings 2003

(tonnes)

Highway Authority (time taken to complete survey in hours)	Estimate of arisings from local authority roadworks	Nature of arisings	Quantity of arisings recycled/reused or stockpiled	Estimate of quantity in stock at 31/12/02	Estimate of quantity removed by contractors. Destination unknown	Source of estimate
Worcestershire (7)	47047	Mainly Asphalt	650	0	46397	Bills of quantity/other sources
Shropshire (2)	7000	65% Bitmac, 35% Asphalt	500	200	6,500	Bills of quantity/informal estimate
Staffordshire (0.25)	28,000	50% Asphalt 50% GSB	28,000	0	0	Bills of quantity
Warwickshire (3.5)	18,915	Mainly Asphalt	1,190	2,500	17,725	Mainly bills of quantity
Birmingham (2)	56,120	Mainly Asphalt	6,000	0	55,520	Informal estimate
<i>Coventry</i>	<i>0</i>	-	<i>0</i>	<i>0</i>	<i>0</i>	-
Dudley (5 mins)	16,000	Mainly Asphalt	1,000	1,000	15,000	Informal estimate
<i>Herefordshire</i>	<i>4,700</i>	<i>Mainly Asphalt</i>	<i>4,100</i>	<i>1,400</i>	<i>400</i>	<i>informal</i>
Sandwell (4)	29,489	87% Asphalt 5% bitmac/ surface dressing	29,489	2,000	0	Contractors Invoices
Solihull (2.5)	16,308	Mainly Asphalt	6,982	0	9,326	Bills of quantity
Stoke on Trent	23,400	Mainly asphalt	19,700 taken to transfer station (for recycling)	3,700	0	Bills of quantity
Telford & Wrekin	160	Mainly Asphalt	Unknown (Contractor stockpiles)	30	Unknown	Informal estimate
Walsall	29,990	90% Asphalt 10% Bituminous	29,900	1,500	0	Bills of quantity
Wolverhampton	24,300	Mainly Asphalt works	0	0	24,300	Records of completed works
Regional Total	301429		127511	12330	175168	

Figures in italics are estimates based on 2002 returns

8 PLANNING APPLICATIONS DURING 2003

8.1 The following tables show how planning permissions and pending applications have, or may in the future affect, the mineral planning authority landbanks.

Sand & Gravel Applications

Table 20: Sand & Gravel Applications 2003

(million tonnes)

	Submitted	Withdrawn	Refused by MPA	Refused on Appeal	Permitted by MPA	Permitted on Appeal	Pending, not determined by MPA at 31.12.02
Herefordshire	2.0	0	0	0	0	0	2.0
Worcestershire	1.2	0	0	0	0	0	1.2
Shropshire	1.73	0	0	0	.23	0	5.0
Staffordshire	9.91	0	0	0	12.35	0	21.49
Warwickshire	0	0	0	0	0	0	0
W Midlands County	0	0	0	0	0	0	0
Regional Total	14.84				12.58		29.92

8.2 New planning permissions were granted for 12.35 million tonnes of sand and gravel extraction in 2002. This more than replaces the mineral sold. Applications were submitted for 13.34 million tonnes but 1.1 million tonnes was subsequently withdrawn. Just under 30 million tonnes remained pending at the end of 2003.

8.3 Details of individual applications are set out in Appendix 5.

Crushed Rock Applications

Table 21: Crushed Rock Applications 2003

(million tonnes)

	Submitted	Withdrawn	Refused by MPA	Refused on Appeal	Permitted by MPA	Permitted on Appeal	Not determined by MPA at 31.12.03
Herefordshire	0	0	0	0	0	0	0
Worcestershire	0	0	0	0	0	0	0
Shropshire	30.1	0	0	0	0	0	0
(Telford & Wrekin)	6.12	0	0	0	0	0	6.12
Staffordshire	0	0	0	0	0	0	0
Warwickshire	0	0	0	0	0	0	0
W Midlands County	0	0	0	0	0	0	0
Regional Total	36.22	0	0	0	0	0	36.22

9 REGIONAL SUMMARY: EVENTS OF INTEREST

9.1 The information in this section has generally been supplied by the mineral planning authorities in the region. It is intended to provide a summary of events and developments in the region with implications for aggregate use which took place during 2003.

Housing Completions

9.2 To enable comparisons between aggregate consumption and house building, annual reports since 1998 have shown details of housing completions in the Region over the previous four years. Housing completions are calculated on the basis of financial years and therefore the latest available published figures are for the year 2002/2003. The Table below shows these, together with figures for the previous two financial years and gives an average figure of house completions.

9.3 Other information is set out under authority headings and details development that took place during 2002. Not all authorities have reported developments with implications for aggregate use.

Table 22: Total Gross Housing Completions v Draft RPG specified Annual Provision

Source: West Midlands Regional Planning Guidance Monitoring Report 2002/2003 published by West Midlands Local Government Assoc.

Area (Unitary Authority/Strategic Authority)	Number of Gross Completions 2001/2002	Number of Gross Completions 2002/2003	Ave Number of Gross Annual Completions 2001-2003	Draft RPG Specified Annual Provision (as a October 2003) 2001-2007 Average Dwellings per Annum
Birmingham	2,750	2,742	2,746	2,300
Dudley	404	523	464	600
Sandwell	422	899	661	900
Walsall	327	399	363	500
Wolverhampton	268	554	411	500
Black County	1,421	2,375	1,898	2,500
Coventry	635	879	757	650
Solihull	663	409	536	400
Warwickshire	2,625	2,509	2,567	2,000
Coventry/Solihull/Warwickshire	3,923	3,797	3,860	3,050
Staffordshire	3,062	2,630	2,846	2,900
Stoke-on-Trent	779	492	636	600
Staffordshire/Stoke on Trent	3,841	3,122	3,482	3,500
Shropshire	1,294	1,089	1,192	1,300
Telford & Wrekin	713	598	656	1,330
Shropshire/Telford & Wrekin	2,007	1,687	1,847	2,630
Herefordshire	482	622	552	800
Worcestershire	1,968	1,989	1,979	1,900
West Midlands Region	16,392	16,334	16,363	16,680

- 9.4 In the mainly urban authority areas Birmingham and Coventry have exceeded total gross completions targets as defined by the Regional Planning Guidance (now Regional Spatial Strategy) for the West Midlands. However, Walsall and Dudley's completions are significantly below their allocated targets. In Walsall's case this is a result of a tailing off of gross completions from sites allocated in their adopted Unitary Plan which has now been replaced by a new plan adopted in March 2005. In Stoke-on-Trent completions are running at around 800 per annum, significantly ahead of RSS minimum requirement, and are likely to increase as a result of housing market renewal activity.
- 9.5 Outside the main urban centres, the rural counties to the west of the region (Shropshire and Herefordshire), are currently below targets. Completions for Telford & Wrekin are expected to rise significantly once some large scale housing projects under the control of English Partnerships are initiated. The Provision of Housing in the West Midlands report states that in Shropshire and some other areas of the region District Local Plans are at different stages of their adoption process which may account for the below target completions. Warwickshire however, currently has a completion rate of 25% above its target.
- 9.6 Figures of housing completions also show that 70% of development took place on previously developed land in the region as a whole set against a regional target of at least 65%.

Other Events

Herefordshire

- 9.7 No matters of exceptional interest regarding aggregate applications, demand or uses occurred in the county during 2003.

Staffordshire

- 9.8 Industrial development at Fradley, where units totaling roughly 19,200 sq ms are being constructed. Forthcoming events include the Service Station for the Toll Road in Cannock (27 hectares) and the Biddulph bypass. Redevelopment in North Staffordshire is covered under Stoke-on-Trent, below.

Stoke-on-Trent

- 9.9 North Staffordshire is one of nine Housing Market Renewal Pathfinder Areas throughout the country. It is anticipated that over the period to 2023 there will be 14,500 clearances and provision of 12,500 replacement dwellings as well as the refurbishment of a further 36,000 dwellings. This will be part of a fundamental restructuring of the housing market in North Staffordshire, and particularly within Stoke-on-Trent. It could therefore be anticipated that there will be significant demand for aggregates and processing capacity for secondary aggregates as a consequence of this. These needs will be addressed through the Local Development Framework which is currently under way.

Shropshire (excluding Telford & Wrekin)

- 9.10 Two road Schemes (Hodnet By-Pass and Nesscliffe By-Pass) with a total length of 12km opened during 2003. The year also saw a further surge of economic development around Shrewsbury with infrastructure works and the construction of new units at Battlefield Enterprise Park and the development of new office units at Shrewsbury Business Park, taking advantage of its location close to the A5/M54.

Worcestershire

- 9.11 Work has commenced on the Chadbury-Twyford Link Road on the A44 to the north of Evesham.

Warwickshire

- 9.12 The Housing and Development at South West Warwick continues with around 600 houses still to be completed. Other developments of note include the Coleshill multi-modal interchange and the continuing housing development at Cawston in Rugby. It should also be noted that the Governments Sustainable Communities Plan for the expansion of the Milton Keynes and South Midlands Area, which includes Daventry, may have implications for aggregate supply from Warwickshire sites. Work is currently being undertaken by the East Midlands RAWP to investigate this issue.

Birmingham

- 9.13 Birmingham's UDP is currently out for public consultation and contains the City Council's response to the Inspectors report and the proposed modifications. It is hoped the new UDP will be adopted by the end of 2005. The construction of the Northfield Relief Road could begin this year and there are also proposals for a Selly Oak Relief Road with associated developments including a hospital and other retail uses. A 38 hectare site at 'The Hub' in Witton is being developed for industrial use and outline planning applications have been submitted at Minworth Sewage Works (37.5 hectares) and the former Alstom site (21.3 hectares) again for industrial uses. In the city centre development continues at the Eastside and at Arena Central (7.6 hectares) which is mixed development. Other city centre regeneration sites include the office development at the Post and Mail site, the construction of retail and office space at Snow Hill and the proposed large scale housing development at Cape Hill Brewery.

10 DEVELOPMENT PLANS

- 10.1 The Planning & Compulsory Purchase Act 2004 requires Mineral and Waste Planning Authorities to prepare Mineral and Waste Development Frameworks (MWDF's) which are the replacement for the existing Local Plans. Some authorities will have separate frameworks for Minerals and Waste, others may produce a joint Framework. These new MWDF's comprise of various Mineral and Waste Development Documents (MWDD's) including a core strategy, site specific allocations and a statement of how the community will be involved in the plan process, (SCI). Each Mineral Planning Authority will have initially produced a Minerals Development Scheme which sets out the authorities current planning policies and explain to the local community what plans it proposes to include in its Minerals Framework Document and the timescale for their production.
- 10.2 This chapter updates the position within the region on the preparation and adoption of development plans containing minerals policies. Where possible, information provides the current status, rather than the status at the end of 2003.
- 10.3 All Shire County and former Shire County areas in the region are covered by adopted Minerals Local Plans. Plan reviews are programmed in most areas but the new procedures for Local Development Frameworks are having an impact on timetabling.
- 10.4 In the Metropolitan areas, most authorities are proposing secondary aggregates/recycling policies in the reviews of their Unitary Development Plans. Not all of these plans contain primary aggregate policies because they are not relevant in areas where aggregates are not, and are unlikely ever to be worked.

Table 23: Status of Development Plans Containing Aggregate Policies

Shire Counties	Structure Plan Adopted	Review Proposed	Minerals Plan Adopted	Review Proposed
Worcestershire		Saved under the new transitional arrangements until Sept 2007	April 1997	Minerals Local Development Document Commenced.
Shropshire	Shropshire and Telford & Wrekin Structure Plan 1996 – 2011 Adopted November 2002	Following Planning Act 2004 no requirement to review Structure Plan.	April 2000	Production of a “Sustainable Resource Management Development Framework” in March 2005. Public Consultation on Issues and Alternatives Options version of the new DPD in early 2006.
Staffordshire	May 2001 and amended Fe. 2002 (due to a High Court challenge)	Following Planning Act 2004 no requirement to review Structure Plan.	December 1999	‘Saved’ until 2007. Minerals and Waste Development Scheme effective from 21st April.
Warwickshire	August 2001	Following Planning Act 2004 no requirement to review Structure Plan.	February 1995	Review of existing Minerals Local Plan, production of Minerals and Waste Development Scheme now approved.
Unitary Authorities				
Unitary Development Plan adopted				
Birmingham	July 1993	Public Consultation on revised draft, April 2005, adoption predicted for end 2005.	Modified UDP has policies of reuse of materials and waste policies acknowledge the need for all types of recycling facilities.	
Coventry	December 2001		No	
Dudley	November 1993	The Dudley Borough UDP is expected to be adopted in mid 2005.	Revised plan has alternative aggregates policy	

Table 23: Status of Development Plans Containing Aggregate Policies continued...

Unitary Authority	Structure Plan Adopted	Review Proposed	Minerals Plan Adopted	Review Proposed
Herefordshire	Hereford and Worcester County Structure Plan (1986 – 2003) Adopted 1993.	Following Planning Act 2004. Herefordshire Unitary Development Plan Revised Deposit Draft published, Public enquiry Feb 2005.	Hereford and Worcester Minerals Local Plan (1994 – 2003)	Following Planning Act 2004. Herefordshire Unitary Development Plan Revised Deposit Draft published, Public enquiry Feb 2005.
Sandwell	January 1995	Adopted 2004	Yes	
Solihull	April 1997	Pending Inspectors Report on Revised Draft Deposit after public consultation between May and September 2004.	Yes	
Stoke-on-Trent	Adopted 2001	Local Development Scheme submitted and approved.	See Staffordshire	Core Strategy will include a section on minerals with a draft expected Summer 2005.
Telford & Wrekin	See Shropshire	See Shropshire	See Shropshire	
Walsall	January 1995	Adopted 7th March 2005	Yes	
Wolverhampton	September 1993	Public Inquiry Nov 2004, adoption predicted for late mid to late 2005.		

APPENDIX 1

MEMBERSHIP OF THE WEST MIDLANDS REGIONAL AGGREGATES WORKING PARTY, NOVEMBER 2004

Chairman

P Wilcox Staffordshire County Council

Technical Secretary

Jasbir Kaur Warwickshire County Council

Mineral Planning Authority Representatives

D Bridgwood City of Stoke-on Trent
N Dean Herefordshire Council
M Salim Sandwell Metropolitan Borough Council
M Bell Shropshire County Council
D Wigfield Solihull Metropolitan Borough Council
M Griffen Staffordshire County Council
D Coxill Telford & Wrekin Council
M Bishop Worcestershire County Council
J Davies Warwickshire County Council
C Blakely West Midlands Regional Assembly

Industry Representatives

D Pollock Quarry Products Association (QPA)
M Daynes QPA - Hanson Aggregates
R Halley QPA - Lafarge Aggregates
R S Hill QPA - Tarmac Central
M A Rowley QPA - RMC Aggregates (Western)
D Coleman National Federation of Demolition Contractors (NFDC) – Coleman & Company
N McLean NFDC - Armac D.E.L.
P Huxtable British Aggregates Association (BAA)
T Evans BAA - Montspur

Central Government Representatives

R Hilton Office of the Deputy Prime Minister (ODPM)
Ian Smith Government Office for the West Midlands (GOWM)
D Howatson GOWM / Department for the Environment, Food and Rural Affairs (DEFRA)

APPENDIX 2

WORKING PARTY PUBLICATIONS

Stage 1 Report Re-Survey – November 1979	out of print
Regional Commentary Part 1 – July 1980	out of print
Regional Commentary Part 2 – July 1981	out of print
Regional Interpretation – 1982	out of print
Report of the 1985 Aggregates Monitoring Survey – May 1987	out of print
West Midlands Regional Commentary – June 1988	out of print
Implementation of MPG6 – Sub-Regional Apportionments – June 1990	out of print
Report of the 1989 Aggregates Monitoring Survey – November 1990	out of print
West Midlands Aggregates Working Party Regional Commentary – January 1992	(£20.00)
First Annual Report 1990	(£5.00)
Annual Report 1991	(£5.00)
Aggregates Monitoring Survey 1993 West Midlands Regional Collation	(£5.00)
Sub-Regional Apportionment, July 1995	(£5.00)
Annual Report 1992	(£5.00)
Annual Report 1993/4	(£5.00)
Annual Report 1995	(£5.00)
Annual Report 1996	(£5.00)
Annual Report 1997	(£10.00)
Annual Report 1998	(£10.00)
Annual Report 1999	(£12.50)
Annual Report 2000	(£12.50)
Annual Report 2001	(£15.00)
Annual Report 2002	(£15.00)

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APPENDIX 3

ACTIVE AND INACTIVE AGGREGATE MINERAL WORKINGS IN THE WEST MIDLANDS REGION

The following list sets out active and inactive aggregate mineral workings in the region which contain permitted reserves. The site lists relate to the site's status in 2002 but details of the operating company relate to the situation at the time of report preparation (Autumn 2003). Sites marked with an * are statutorily dormant under the terms of the Environment Act 1995.

Active Sand & Gravel Sites

Site Name	Operator	Grid Reference
Herefordshire		
Shobdon	Tarmac Western	SO 307 605
Wellington Quarry	Lafarge Aggregates	SO 507 378
Lugg Bridge	RMC Aggregates (Western)	SO 535 425
Staffordshire		
Newbold Quarry	Aggregate Industries	SK 205 1195
Leasowes Farm, Uttoxeter	Aggregate Industries	SK 097 351
Hurst Quarry	Biddulph Sands Ltd	SJ 389 359
Anglesey Sandpits	Blakemore J	SK 058 068
Enville Road	Davis, F.G. & Sons	SO 872 898
Barton	Hanson Aggregates	SK 195 155
Manor Park	Hanson Aggregates	SK 144 172
Middleton Hall	Hanson Aggregates	SP 202 995
Weeford	Hanson Aggregates	SK 133 026
Pottal Pool	Hanson Aggregates	SJ 973 147
Alrewas	Lafarge Aggregates	SK 175 125
Eccleshall	Lafarge Aggregates	SJ 849 319
Hopwas	RMC Aggregates (Western)	SK 165 050
Rugeley	RMC Aggregates (Western)	SK 010 181
Weeford	RMC Aggregates (Western)	SK 139 026
Moneystone	WBB Minerals	SK 041 462
Hints	Tarmac Central	SK 163 462
Croxden	Tarmac Central	SK 033 417
Seisdon	Tarmac Central	SO 700 950
Shire Oak	Tarmac Central	SK 063 042
Cranebrook Quarry	Walsall Concrete	SK 070 064
Freehay	Hanson Aggregates	SK 015 411
Trentham	Hanson Aggregates	SJ 750 380

Shropshire

Wood Lane Quarry	Tudor Griffiths	SJ 422 328
Norton Farm	Hanson Aggregates	SJ 497 075
Bromfield Quarry	Plymouth Estates	SO 481 773
Buildwas Quarry	Harry Price Sand and Gravel	SJ 647 041
Tern Hill Quarry	RMC Aggregates (Western)	SJ 656 302
Gonsai Quarry	Salop Sand & Gravel	SJ 484 044
Brigwalton Quarry	Salop Sand & Gravel	SO 689 920

Warwickshire

Brinklow Quarry	Mrs J Aston	SP 422 787
Ling Hall Quarry	Ennstone Breedon	SP 450 730
Middleton Hall	Hanson Aggregates	SP 193 973
High Cross	RMS Aggregates (Eastern)	SP 465 887
Blyth Hall	RMS Aggregates (Western)	SP201 897
Marsh Farm	RMC Aggregates (Western)	SP 075 525
Bubbenhall Quarry	Smiths Concrete	SP 363 713

West Midlands County

Branton Hill Lane Quarry	Bliss Sand & Gravel Co.	SK 065 003
Aldridge Quarry	RMC Aggregates (Western)	SK 067 026
Berkswell Quarry	RMC Aggregates (Western)	SP 228 807
Meriden Quarry	Tarmac Central	SP 232 813

Worcestershire

Lower Moor	Avon Gravels	SO 980 465
Wildmoor Quarry	John Williams (Cinetic Sand)	SO 950 759
Blackstone Quarry	Hills (West Midlands)	SO 801 735
Saxons Lode	RMS Aggregates (Western)	SO 867 393
Shepley	RMS Aggregates (Western)	So 983 731
Sandy Lane	Stanley N Evans	SO 950 763
Ball Mill	Tarmac Western	SO 834 610
Clifton	Tarmac Western	SO 848 456
Chadwich Lane Quarry	Salop Sand & Gravel Supply Co.	SO 957 770
Lickhill quarry	Hills (West Midlands)	SO 792 729
Chadwich Mill Farm (Pinches)	Brian Hill Haulage & Plant Hire	SO 967 755

Active Crushed Rock Sites

Herefordshire

Smiths Quarry, Perton	Elliot and Sons	SO 595 399
Leinthall Quarry	Johnston Roadstone	SO 443 684

Staffordshire

Cauldon Low	Tarmac Central	SK 084 474
Kevin	Tarmac Central	SK 086 465

Shropshire (including Telford & Wrekin)**(T&W)**

Lea Quarry	Aggregate Industries	SO 590 980
Haughmond Hill Quarry	Aggregate Industries	SJ 542 148
Coates Quarry	Aggregate Industries	SO 602 994
Clee Hill Quarry	Hanson Aggregates	SO 599 762
Leaton Quarry (T & W)	Ennstone-Johnston	SJ 618 113
Llynclys Quarry	Lafarge Aggregates	SJ 264 242
Bayston Hill Quarry	Tarmac Western	SJ 493 091
Grinshill Quarry	Grinshill Stone Quarries	SJ 475 232

Warwickshire

Griff No 4	Hanson - Aggregates	SP 369 886
Hornton Quarry	Hornton Quarries	SP 373 470
Mancetter	Tarmac Central	SP 310 952

West Midlands County

Edwin Richards Quarry	Midland Quarry Products	SO 967 884
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Worcestershire

Broadway	Smith & Son (Bletchington)	SP 118 368
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Inactive Sand & Gravel Sites**Herefordshire**

Moreton Camp	Tarmac Western	SO 503 473
St Donats Quarry	Lafarge Aggregate	SO 489 467
Upper Lyde Gravel Pit	Hussar Minerals	SO 493 448

Staffordshire

Almington	Hanson Aggregates	SJ 709 345
Huntley Wood	Hanson Aggregates	SK 018 414
Tucklesholme Farm	Aggregates Industries	SK 210 184
Stewpony Sandpit	Biffa Waste Services	SO 864 846
Hinksford Lane	Davis, F.G. & Sons	SO 866 903
Saredon Quarry	Biffa Waste Services	SJ 944 080
Poolhouse Road	CWI Trustees	SO 853 927
Huntingdon	Inglewood Investments	SJ 970 120
Elford	Hanson Aggregates	SK177 113
Hilton Park	Hanson Aggregates	SJ 952 045
Wetmore Hall Farm	Hanson Aggregates	SK 264 263
Hinksford Lane	Mr & Mrs Munday	SO 866 904
Four Ashes	Parkhill Estates	SJ 927 097
Weavers Hill	Salop Sand & Gravel Supply Co.	

Shropshire

Sleap Quarry	Hanson Aggregates	SJ 480 265
Cound Quarry	Hanson Aggregates	SJ 550 060
Morville Quarry	Lafarge Aggregates	SO 685 936
Conyburg Wood Quarry	Hanson Aggregates	SJ 675 274

Warwickshire

Barn Cottage Farm Quarry	Mr J D Stephens	SP 415 735
Dunton Quarry	KSD	SP 188 933

Worcestershire

Ripple Quarry	RMC Aggregates (Western)	SO 792 728
Ryall House Farm Quarry	RMC Aggregates (Western)	SO 866 400

Inactive Crushed Rock Sites**Herefordshire**

Nash Quarry	Tarmac Western	SO 302 623
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Staffordshire

Wardlow / Wredon	Tarmac Central	SK 087 572
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Shropshire (including Telford & Wrekin)

Farley	“non-mineral owner”	SJ 629 017
Callow	Tarmac Western	SJ 387 050
More Quarry*	Tarmac Western	SO 325 933
Blodwell Quarry	Hanson Aggregates	SJ 257 229
Nantmawr Quarry*	Hanson Aggregates	SJ 253 242

Warwickshire

Jees / Boons Quarry	Midland Quarry Products	SP 333 940
Griff No 5 Quarry	Hanson Aggregates	SP 367 886

APPENDIX 4

ACTIVE RECYCLING SITES IN THE WEST MIDLANDS REGION

Following the successful introduction of lists of active and inactive quarries in the region, a list of permitted active aggregate recycling facilities is included for the first time. Whilst the list includes all reported sites it may not be complete.

Site Name	Operator	Grid Reference
Herefordshire		
Wellington Quarry	Lafarge Aggregates	SO 507 378
Leinthall Earls Quarry	Johnstone Roadstone	SO 443 684
Staffordshire		
Alrewas Quarry	Lafarge Aggregates Ltd	SK 185 155
Ash Tarr/Tarr Waste Management, Chemical Lane	Tarr Waste Management Ltd	SJ 85 50
Barleyfields	J Taberner Plan Hire	SK 191 244
Booths Farm	Fallows Landfill	SK 008 452
Cheslyn Hay/Rosemary Works	Lafarge Aggregates	SJ 974 075
Eville Road	F G David & Son	SO 873 898
Future Waste & Reclamation	Future Waste & Reclamation	SJ 852 501
Goldings	G D Golding Waste Transfer Station	SK 234 224
Hanson Pipes, Smestow Bridge	Hanson Concrete Products	
High Carr	Cherry Hill Skip Hire	SJ 837 510
Hollybush Garden Centre	Jack Moody	SJ 965 064
Meece Recycling & Transfer Facility	JDM Accord	SJ 852 343
Orchard Farm	Tom's Skips	
Poplars Landfill	Biffa Waste Services	SJ 992 092
Weeford Quarry	RMC Aggregates (Western)	SK 139 026
Rugeley Power Station	Rugeley Power Ltd	
Sarendon	Biffa Waste Services	
Stoke-on-Trent		
Cockshute Sidings	Construction Materials Recycling	Shelton New Road
Newstead Landfill & MRF	Biffa Waste Services	
Shropshire (including Telford & Wrekin T&W)		
Wood Lane Quarry	Tudor Griffiths	Wood Lane, Ellesmere
Former Dorrington Quarry	H Evason	Dorrington
Buildwas Quarry	H Price	Buildwas Road, Ironbridge
Ironbridge Power Station	EON UK Plc	Ironbridge, Telford
Loosemores Transport	Loosemores	Battlefield, Shrewsbury
Pink Skips (Telford)	Pink Skips Ltd	Rock Road, Telford
Shropshire Recycling Services	Shropshire Recycling Services	Stourbridge Road, Bridgnorth
Peter Griffiths	Peter Griffiths	Lowe Farm, Wem

Warwickshire

Dunton Quarry	KSD	SP 188 933
Ryton Mill	Tipping Resources (Coventry)	SP 374 752
Tipping Resources	Tipping Resources (Coventry)	Whitacre Road, Nuneaton
Middleton Hall Quarry	Hanson Aggregates	SP 198 983

Worcestershire

Ball Mill Quarry, Grimley	Tarmac Western	SO 833 605
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West Midlands County Area

Meriden Quarry	Coleman & Co	SP 232 813
Cornets End	Coleman & Co	Cornets End Lane, Meriden, Solihull
Shady Lane, Great Barr	Coleman & Co	Birmingham, B44 9ER
Station Road, Stechford	Coleman & Co	Birmingham, B33 9AX
Tarmac Recycling Services Bordesley Green	Tarmac Recycling Services	253 Bordesley Green Road, Birmingham
Bordesley Green	Armac DEL	251-253 Bordesley Green Road, Birmingham
Bescot Junction	DSM Demolition	Bescot junction, Walsall
Glenside Recycling	Glenside Recycling	Vittoria Street, Smethwick
Bescot Sidings	Midland Quarry Products	SO 010 957
Tarmac Recycling Services Ettingshall	Tarmac Recycling Services	Spring Road, Ettingshall
Stichacre Ltd	Stichacre Ltd	Northcott Road, Bilston

APPENDIX 5 – SAND & GRAVEL APPLICATIONS 2003

Staffordshire

Location	Grid ref.	Type of site	Tonnage (tonnes)	Allocated in Plan?	Status at 31.12.03	Restoration	Main Planning Issues
Hopwas Quarry	SK 165 050	Extension	950,000mt	Granted 12.06.92	Granted 12.06.02	Woodland/amenity	Access, Residential impact, Greenbelt, Need for comprehensive consent
Barton Quarry	SK 195 155	Extension	3.73 mt	No, Submitted 29.9.99	Pending Awaiting S106	Water based recreation, nature conservation & agriculture	Need Noise Visual Impact Traffic Dust archaeology
Hints	SK 163 039	Extension	1.02mt	No	Pending	Agriculture, woodland, and grassland	Extraction of mineral and integrated restoration scheme (in abeyance pending determination of joint application and working adjacent quarries.
Rugeley Quarry	SK 400 381	Extension	2.0 mt	No, Submitted 09.11.00	Pending Awaiting legal agreement	Undecided	Need, ecology, hydrology, traffic, AONB, Green Belt
Hints Quarry	SK 16 04	Extension	0.23 mt	No, Submitted 27.09.01	Pending	Woodland	Need Sterilisation Landscape Visual Impact Noise Dust Traffic
Newbold Quarry	SK 20 20	Extension	3.8 mt	No, submitted 20.6.01	Pending	Nature conservation Agriculture Forestry	Need Comprehensive working and restoration Biodiversity Loss of Agricultural land Proximity to housing Landscape Water protection
Middleton Hall	SK 20 00	Extension	0.62 mt	No, Submitted 28.02.02	Granted, 17.09.03 Subject to S106	Wetland & nature conservation	Need visual amenity, Noise, Improved restoration Green Belt, Water Protection, Public access
Hints/Hopwas	SK 16 04	Combine Two Sites	8.0	No, Submitted 02.07.02	Pending	Agriculture, heathland and woodland restoration	Need, Visual amenity, Improved Consolidating application, Green Belt Water protection

Location	Grid ref.	Type of site	Tonnage (tonnes)	Allocated in Plan?	Status at 31.12.03	Restoration	Main Planning Issues
Seisdon	SO 844 953	Extension	0.14	No, Submitted 31.10.02	Granted Feb 2003, subject to S106	Water based recreation, woodland and grassland	Need, Phasing, Green Belt Traffic, Noise & Dust, Groundwater, Visual impact
Shoal Hill (Huntington) Quarry	SJ 969 118	N/a	0.5mt	No, submitted 20.12.02	Permitted (20.03.03) extension of time for extraction until Dec 2005.	Woodland and Grassland	Need, Green Belt, noise, dust, traffic.
Upper Whittemere	SO 83 92	N/a	.0187mt	No, submitted 17.07.03	Permitted, 20.11.03		Green Belt, noise, dust, visual impact, groundwater.
Cranebrook	SK 070 064	Extension	.35mt	No, submitted 12.09.03		Withdrawn	Need, Green Belt.
Captains Barn Farm	SJ 950 455	New	12mt	No	Refused		Need, traffic, loss of agricultural land, Green Belt, noise, dust, vibration.
Herefordshire							
Moreton Depot	SO503 473	New Site	2.0 mt	Yes, submitted 16.10.02	Pending	Lakes, Wetland and Nature Conservation	Effect on River Lugg hydrology, SSSI/SAC Access to trunk roads, restoration.
Worcestershire							
Clifton Quarry	SO 848 456	Extension	1.2 (mt)	No	Pending	Agriculture, grassland, woodland	Impact on floodplain, SSSI and ProW's.
Shropshire							
Gonsal Quarry	SJ 484 044	Extension	2.0 (mt)	No	Pending, awaiting S106	Agriculture/Water Environmental Impact	Access
Wood Lane Quarry	SJ 422 328	Deepening	1.5 (mt)	Yes	Pending	Agriculture/Water	Nature Conservation and Habitats

Barnsley Lane SO 762 928 New Site 1.5 (mt) Phase 2 Pending, Agriculture, Green Belt, cumulative
 Allocation awaiting legal woodland/grassland/ impact, highways, local
 (MLP) agreement heath land. amenity, hydrogeology

APPENDIX 6 – CRUSHED ROCK APPLICATIONS 2003

Shropshire

Location	Grid ref.	Type of site	Tonnage (tonnes)	Allocated in Plan?	Status at 31.12.03	Restoration	Main Planning Issues
Bayston Hill Quarry	SJ 495 095	Extension/ deepening	30.1 (mt)	Permitted Site	Pending	Water body, woodland, agriculture	Need, local amenity, hydrogeology, transport/access, landscape
Leaton Quarry (Telford)	SJ 615 115	Extension/ deepening	6.12 (mt)	Permitted Site	Pending, awaiting legal agreement	Water body, woodland, agriculture, grassland	Need, local amenity, hydrogeology, highways, visual/landscape

APPENDIX 7 – RECYCLED AGGREGATE APPLICATIONS 2003

Location	Grid ref.	Type of site	Tonnage (tonnes)	Allocated in Plan?	Status at 31.12.03	Restoration	Main Planning Issues
Barleyfields, Staffordshire	SK 419 324	Waste Transfer Station and Crusher	30,000	4.6.99	Pending, Awaiting S106	N/a	Visual Impact Noise Dust Odour Access Traffic
Cheslyn Hay Staffordshire	SJ S397 307	Aggregate recycling facility	25,000	17.3.00	Pending, awaiting S106	N/a	Visual amenity Traffic Noise Dust Odour
Weeford Quarry	SK 13 01	Concrete Recycling	-	-	Granted, until 31st December 2004	N/a	Green Belt, visual impact, noise, dust, traffic, groundwater, timescales.
Chemical lane, Staffordshire (2 applies)	SJ 850 500	Storage & Recycling facility	50,000 and 100,000	20.04.02 & 21.10.02	Pending	N/a	Storage capacity Dust Traffic
Booths Farm	SK 007 448	Recycling Facility	-	19.11.02	Withdrawn 30.01.03	N/a	Withdrawn following request for more information
Booths Farm	SK 007 448 Facility	Recycling	-	07.04.03	Pending		Need. Green Belt, landscape & visual amenity, restoration and aftercare.
Poplars Landfill	SJ 999 093	Recycling Facility	-	17.10.03	Permitted		
Land off Power Station Road	SK 051 182	Waste Transfer and Reclamation Facility	-	21.01.02	Pending	N/a	Storage and crushing of construction waste.

Location	Grid ref.	Type of site	Tonnage (tonnes)	Date submitted	Status at 31.12.02	Restoration	Main Planning Issues
Inkerman Street Nechells Birmingham		Extension of existing concrete mixing facility to facilitate use of recycled materials	-		Granted 29.05.02	N/a	
1 High Street Saltley Birmingham		Extension of existing concrete mixing facility to facilitate use of recycled materials					
Birch Lane Quarry Walsall	SK 068 026	Recycling of soils and aggregates	Unknown	11.05.01	Pending	Quarry restoration to agriculture	Green Belt
Ball Mill Quarry, Grimley, Worcestershire	SO 833 605	50,000	07.05.02	Granted 26.09.02	Granted 26.09.02	Agriculture	Noise & dust Traffic, Visual impact Potential pollution
Middleton Hall Quarry, Warwickshire	SP 198 983	Retention of aggregate recycling	150,000	04.02.02	Granted 15.04.02	Agriculture/amenity	Green Belt Sustainability Noise facility for duration of quarrying
Newdigate former colliery site, Warwickshire	SP 330 872	Continued use of recycling compound beyond restoration of adjacent colliery tip site	130,000	28.04.02	Pending approved subject to s106	Woodland	Sustainability Green Belt Visual impact Noise & dust Timescale
Ufton Landfill, Warwickshire	SP 387 613	Materials recycling facility	50,000 (mainly ind./comm.waste but also hardcore)	10.12.02	Pending Awaiting E A	Agriculture – as part of landfill site	Visual impact, traffic