



Department for
Communities and
Local Government

Mineral extraction in Great Britain 2011

Business Monitor PA1007

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MINERAL EXTRACTION IN GREAT BRITAIN

BUSINESS MONITOR PA1007

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2011

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About the Office for National Statistics

The Office for National Statistics (ONS) is the government agency responsible for compiling, analysing and disseminating many of the United Kingdom's economic, social and demographic statistics, including the retail prices index, trade figures and labour market data, as well as the periodic census of the population and health statistics. The Director of ONS is also the National Statistician and the Registrar General for England and Wales, and the agency that administers the registration of births, marriages and deaths there.

A National Statistics Publication

National Statistics are produced to high professional standards set out in the National Statistics Code of Practice. They undergo regular quality assurance reviews to ensure that they meet customer needs. They are produced free from any political interference.

CONTENTS

Notes to Tables

Tables

Table A Limestone, Dolomite & Chalk

Table B Limestone, Dolomite & Chalk

Table 1 Industrial Sand

Table 2 Sand & Gravel for construction

Table 3 Sandstone

Table 4 Igneous Rock

Table 5 Limestone & Dolomite

Table 6 Peat

Table 7 Crushed Rock Summary

Table 8 Clay & Shale

Table 9 Chalk

Table 10 Fireclay

Table 11 Ore Minerals

Table 12 Other Minerals

Table 13 All Minerals - All Employment

Table 14 All Minerals - Direct Employment

Table 15 All Minerals - Contractors Employed

Table 16 All Minerals - Lorry Drivers on Site

NOTES TO TABLES

1. Introduction

This monitor covers all mines and quarries in Great Britain except for coal. The register of some 2,000 different sites is supplied and kept up-to-date with the assistance of the British Geological Survey's 'BRITPITS' database and with acknowledgement of help of the minerals industry, the Aggregates Working Parties and individual Mineral Planning Authorities.

2. Coverage

Mineral Extraction in Great Britain is a business monitor which presents the results of the Annual Minerals Raised Inquiry conducted by the Office for National Statistics under Section 1 of the Statistics of Trade Act 1947 for the Department for Communities and Local Government and the Department for Business Innovation and Skills.

3. Response

The results in this monitor are based on a response of 90 per cent of the total number of questionnaires sent out. Estimates for non-response are included throughout the tables as appropriate.

4. Area information

Data is arranged in each table to provide the maximum amount of area information consistent with the need to prevent disclosure. The data is collected by mineral planning authority area in England and have been geographically represented under Wales and Scotland Region.

To ensure that the data reported for sites are ascribed to the correct administrative areas respondents are asked to confirm the site location when completing the survey questionnaires.

5. Employment

The figures show the number of persons employed directly and indirectly during the week ended 1 September 2011 (or in the nearest normal working week) who were subject to the provisions of the Mines and Quarries Acts 1954 and 1969.

Included are working proprietors, drivers of external and internal haulage and other vehicles (whether or not on the quarry payroll) and persons employed by contractors and sub-contractors to carry out drilling, blasting, plant installation and modification etc. (excluded are persons who were employed on any operations subject to the provisions of the Factories Act 1961).

Where more than one mineral is extracted at a mine or quarry, all employment is attributed to the chief mineral (in terms of tonnage sold).

6. Marine dredged sand & gravel

Table 2 (Sand & Gravel) includes data for marine dredged material. This data is allocated to the county in which the port of landing is situated.

7. Crushed rock summary

Table 7 (Crushed rock summary) presents combined data for the minerals sandstone, igneous rock, limestone and dolomite in respect of their uses as aggregates for construction i.e. roadstone, concrete aggregate, other screened and graded aggregate, railway ballast and other constructional uses (fill and ballast). Figures for these minerals are shown separately in Tables 3, 4, and 5 respectively.

8. Limestone, dolomite and chalk

Tables 5, 7 and 9 are produced at county level. Tables A and B summarise useful totals for Great Britain

9. Guarding against disclosure

The Statistics of Trade Act 1947 prohibits the disclosure of any information relating to an individual undertaking without the consent of the person carrying on that undertaking. Rigorous checks have been made to ensure that information relating to individual businesses has not been disclosed, directly or by deduction, in any of the figures published in this Business Monitor. Where necessary, figures have been withheld or combined with others.

10. Rounding

Because of rounding, the sums of constituent items may not always agree with the totals shown.

11. Symbols

The following symbols are used throughout this monitor:

* withheld to avoid disclosure

- nil or less than 500 tonnes

† includes marine dredged material

COUNTY DEFINITION USED IN THIS REPORT

The data is collected by mineral planning authority area in England and Region. been geographically represented under Wales and Scotland.
The county coverage is detailed below.

COUNTY	COUNTY/UNITARY
Northumberland	Northumberland
Durham	Durham
	Darlington
Tyne & Wear	Newcastle Upon Tyne
	Gateshead
	Sunderland
	North Tyneside
	South Tyneside
Cleveland	Hartlepool
	Redcar & Cleveland
	Middlesbrough
	Stockton-on-Tees
Cumbria	Cumbria
Lancashire	Lancashire
	Blackburn
	Blackpool
Greater Manchester	Tameside
	Stockport
	Manchester
	Trafford
	Salford
	Oldham
	Rochdale
	Bury
	Wigan
	Bolton
Cheshire	Cheshire
	Halton
	Warrington
Merseyside	Sefton
	Wirral
	Liverpool
	Knowsley
	St. Helens
North Yorkshire	North Yorkshire
West Yorkshire	York
	Leeds
	Bradford
	Calderdale
	Kirklees

COUNTY	COUNTY/UNITARY
South Yorkshire	Wakefield Sheffield Rotherham Doncaster
Humberside	Barnsley East Riding of Yorkshire Kingston-upon-Hull North East Lincolnshire North Lincolnshire
Hereford & Worcester Shropshire	Worcestershire Shropshire The Wrekin
Staffordshire	Staffordshire Stoke-on-Trent
Warwickshire West Midlands	Warwickshire Birmingham Wolverhampton Dudley Walsall Sandwell Solihull Coventry
Derbyshire	Derbyshire Derby
Leicestershire	Leicestershire Leicester Rutland
Lincolnshire Northamptonshire Nottinghamshire	Lincolnshire Northamptonshire Nottinghamshire Nottingham
Cambridgeshire	Cambridgeshire Peterborough
Norfolk Suffolk Bedfordshire Essex	Norfolk Suffolk Bedfordshire Essex Thurrock
Hertfordshire Berkshire	Hertfordshire Bracknell Forest Newbury Reading Slough Windsor & Maidenhead Wokingham
Buckinghamshire	Buckinghamshire Milton Keynes

COUNTY	COUNTY/UNITARY
East Sussex	East Sussex
Hampshire	Brighton & Hove Hampshire Portsmouth Southampton
Isle of Wight	Isle of Wight
Kent	Kent Medway
Oxfordshire	Oxfordshire
Surrey	Surrey
West Sussex	West Sussex
Greater London	Greater London
Avon	Bath & North East Somerset Bristol North Somerset South Gloucestershire
Cornwall	Cornwall
Devon	Devon Plymouth Torbay
Dorset	Dorset Bournemouth Poole
Gloucestershire	Gloucestershire
Somerset	Somerset
Wiltshire	Wiltshire Thamesdown/Swindon
Gwynedd	Anglesey Gwynedd Conwy
Clwyd	Denbighshire Flintshire Wrexham
Powys	Powys
Dyfed	Ceredigion Pembrokeshire Carmarthenshire
West Glamorgan	Swansea Neath Port Talbot
Mid Glamorgan	Bridgend Rhondda Cynon Taff Merthyr Tydfil
South Glamorgan	Vale of Glamorgan Cardiff

COUNTY	COUNTY/UNITARY
Gwent	Caerphilly Blaenau Gwent Torfaen Monmouthshire Newport
South of Scotland	Dumfries & Galloway Scottish Borders
West Central Scotland	East Ayrshire East Dunbartonshire East Renfrewshire Argyll & Bute Glasgow Inverclyde North Ayrshire North Lanarkshire South Ayrshire Stirling West Dunbartonshire
East Central Scotland	Clackmannanshire East Lothian Edinburgh Mid Lothian West Lothian Falkirk
Tayside & Fife	Angus Dundee City Fife Perth & Kinross
North East Scotland	Aberdeen City Aberdeenshire Moray
Highlands	Highlands
Orkney Isles	Orkney Isles
Western Isles	Western Isles
Shetland	Shetland

**TABLE A - Limestone, dolomite and chalk:
Extractors' sales by broad end-use , 2011**

PA1007

Thousand tonnes

Mineral	Constructional uses (b)	Cement	Agricultural uses	Industrial uses (a)	Total
Limestone	40,112	*	*	5,401	54,430
Dolomite	3,124	-	*	*	4,490
Chalk	276	*	*	*	3,996
Total	43,512	9,936	1,990	7,478	62,916

(a) Includes material for calcination

(b) Includes building stone

**TABLE B - Limestone, dolomite and chalk:
Extractors' sales of material for agricultural and industrial uses, 2011 (a)**

Thousand tonnes

Use	Limestone	Dolomite	Chalk	Total	Of which for conversion by calcination
Agricultural / horticultural	*	*	*	1,990	
Iron and steel	*	*	*	3,583	903
Glass making	*	*	*	212	
Asphalt filler	114	-	*	*	
Other specialised fillers	635	-	*	*	
Chemical use	*	-	*	1,079	*
Building materials	*	-	*	381	
Water & effluent treatment & pollution control	*	-	*	1,216	*
Total	6,599	1,366	1,502	9,467	2,262

(a) Includes material for calcination

TABLE 1 - INDUSTRIAL SAND

PA1007

Extractors' sales by end-use and area of origin, 2011

Thousand tonnes

Area of origin	Sand for industrial uses			Sand for agricultural, horticultural and leisure uses	Total
	Sand for foundry uses	Sand for glass manufacture	Sand for other industrial uses		
Northumberland	-	-	-	*	*
Tyne & Wear	-	-	-	*	*
North Yorkshire	-	-	-	*	*
South Yorkshire	-	-	-	8	8
Humberstone	*	*	*	*	*
Cumbria	-	-	-	*	*
Cheshire	356	*	*	271	1039
Staffordshire	-	*	*	26	*
H'ford & W'cester	3	-	-	*	*
West Midlands	-	-	-	*	*
Warwickshire	-	-	30	-	30
Derbyshire	-	-	-	*	*
Nottinghamshire	*	-	*	*	*
Lincolnshire	-	-	*	-	*
Norfolk	*	*	*	*	*
Suffolk	*	-	-	-	*
Essex	-	-	-	*	*
Bedfordshire	*	-	*	*	*
Berkshire	-	-	-	*	*
Surrey	*	*	210	*	*
Kent	-	*	*	*	405
West Sussex	-	-	-	*	*
Dorset	-	-	*	-	*
Devon	-	-	-	*	*
Cornwall	*	-	*	-	*
England	*	*	918	982	3,533
Clwyd	-	-	-	*	*
Dyfed	-	-	-	*	*
Wales	-	-	-	*	*
West Central Scotland	*	*	*	2	*
East Central Scotland	-	*	*	*	*
Tayside and Fife	-	*	*	*	*
Scotland	*	*	37	*	*
Great Britain	382	1,528	956	1,104	3,969

TABLE 2 - SAND & GRAVEL FOR CONSTRUCTION

PA1007

Extractors' sales by end-use and area of origin 2011

Thousand tonnes

Area of origin	Sand			Gravel				Total	Of which marine dredged material
	Building sand		Concreting sand	For asphalt	Concrete aggregate	Other screened & graded gravels	Other sand & gravel for fill		
	For asphalt	For use in mortar							
Northumberland	*	70	*	-	*	*	*	488	-
Tyne & Wear	-	-	* †	-	-	-	- †	* †	*
Durham	*	*	100	-	-	-	-	253	-
Cleveland	-	-	* †	-	* †	*	-	*	*
North Yorkshire	*	93	687	*	581	276	*	1,729	-
West Yorkshire	-	*	*	-	*	-	*	124	-
South Yorkshire	*	*	*	*	112	*	37	767	-
Humberside	*	214	296	-	* †	134	101	821	*
Lancashire	-	*	*	-	-	-	-	*	-
Cumbria	*	104	247	-	40	*	9	482	-
Greater Manchester	*	*	-	-	-	-	*	*	-
Cheshire	*	381	534	-	-	-	*	1,040	-
Merseyside	-	53 †	43 †	-	-	-	-	96	96
Shropshire	*	*	332	*	168	*	6	677	-
Staffordshire	*	173	1,570	*	1,302	518	436	4,204	-
West Midlands	-	*	*	-	*	*	*	436	-
Warwickshire	3	137	140	*	*	*	8	427	-
Hereford & Worcester	*	*	*	*	*	*	*	674	-
Derbyshire	-	*	*	*	*	*	*	1,015	-
Northamptonshire	*	*	*	*	*	*	*	*	-
Leicestershire	*	32	*	*	*	*	*	*	-
Nottinghamshire	*	222	487	-	*	*	120	1,445	-
Lincolnshire	79	152	568	*	402	*	347	1,872	-
Cambridgeshire	*	10	658	*	531	*	82	1,560	-
Norfolk	*	69	377	*	216	166	143	1,039	-
Suffolk	51	154 †	542 †	-	220 †	165 †	91 †	1,224 †	135
Essex	*	425	1,149 †	*	1,195 †	59 †	137 †	3,016 †	*
Hertfordshire	-	*	*	-	*	*	*	*	-
Bedfordshire	*	365	559	*	166	*	*	1,436	-
Buckinghamshire	-	61	199	-	*	*	11	520	-
Oxfordshire	-	207	*	*	*	*	*	609	-
Berkshire	-	*	319	-	287	*	84	838	-
Surrey	*	193	*	-	*	*	95	721	-
Kent	*	362 †	1,137 †	-	1,458 †	* †	538 †	3,564 †	2,403
East Sussex	* †	* †	* †	-	* †	* †	* †	*	*
West Sussex	* †	188 †	* †	-	* †	* †	* †	914 †	*
Hampshire	* †	* †	637 †	-	987 †	205 †	223 †	2,151 †	1,338
Isle of Wight	*	*	*	-	*	*	*	213	*
Greater London	-	* †	2,585 †	-	1,884 †	* †	* †	4,751	3,907

Area of origin	Sand				Gravel				Total	Of which marine dredged material
	Building sand		Concreting sand	For asphalt	Concrete aggregate	Other screened & graded gravels	Other sand & gravel for fill			
	For asphalt	For use in mortar								
Gloucestershire	-	*	*	*	*	*	*	*	*	-
Wiltshire	-	*	307	*	222	*	*	683	*	-
Avon	-	* †	* †	-	-	*	*	*	*	*
Somerset	-	-	* †	-	* †	*	*	*	*	*
Dorset	54	182	780 †	-	* †	*	*	1,374 †	*	*
Devon	*	59	296 †	*	* †	*	*	577 †	*	*
Cornwall	-	*	699	-	-	-	*	*	*	-
England	* †	5,197 †	19,635 †	*	12,730 †	3,480 †	4,676 †	47,039 †	10,450	
Clwyd	*	*	*	-	*	*	*	*	*	-
Gwynedd	-	55 †	60	-	58	-	-	173 †	55	
Dyfed	*	151 †	73 †	-	31	*	†	47 †	318 †	*
West Glamorgan	-	* †	* †	-	* †	*	†	* †	* †	*
Mid Glamorgan	-	-	-	-	-	*	-	*	*	-
South Glamorgan	-	- †	* †	-	* †	-	*	* †	* †	*
Gwent	-	†	* †	-	-	-	-	†	212 †	212
Powys	-	*	*	-	-	-	*	*	*	-
Wales	* †	382 †	719 †	-	377 †	* †	70 †	1,610 †	740	
South of Scotland	*	34	161	*	117	69	*	447	*	-
West Central Scotland	*	242	910	*	*	447	*	2,125	*	-
East Central Scotland	128	*	*	-	*	92	174	611	*	-
Tayside and Fife	72	115	614	-	462	234	113	1,610	*	-
North East Scotland	35	68	209	7	121	149	121	711	*	-
Highlands	*	28	174	*	130	*	310	794	*	-
Western Isles	-	3	5	-	5	2	3	17	*	-
Orkney	-	*	*	-	-	-	-	*	*	-
Shetland	-	2	-	-	-	-	*	*	*	-
Scotland	484	561	2,237	*	996	*	913	6,366	-	
Great Britain	1,409 †	6,140 †	22,591 †	504	14,103 †	4,609 †	5,659 †	55,015 †	11,189	
Marine Dredged	*	514	5,413	-	4,606	*	405	11,189	-	

† Includes marine dredged material

See also note 6

Extractors' sales by end-use and area of origin, 2011

Thousand tonnes

Area of origin	Roadstone					Concrete Aggregates	Other screened and graded	Rail Ballast	Other constructional uses	Armourstone & Gabion	Industrial Uses	Total
	Building stone	For asphalt on site	For asphalt off site	Uncoated roadstone 1&2	Surface dressing chippings							
Northumberland	18	-	-	8	-	-	-	-	34	-	-	59
Durham	*	-	-	-	-	-	-	-	-	-	-	*
North Yorkshire	*	-	542	-	*	*	*	-	*	-	-	900
West Yorkshire	97	*	-	*	*	-	11	-	*	*	-	400
South Yorkshire	*	-	-	-	-	-	-	-	-	-	-	*
Lancashire	*	-	-	*	-	*	*	-	*	-	-	744
Cumbria	15	*	*	-	*	-	*	-	4	-	-	*
Gtr Manchester	*	-	-	-	-	-	-	-	-	-	-	*
Cheshire	*	-	-	-	-	-	-	-	34	-	-	*
Shropshire	1	*	*	*	*	*	*	-	*	-	*	*
Staffordshire	*	-	-	-	-	-	-	-	-	-	-	*
Hereford & Worcester	2	*	-	*	-	*	*	*	*	-	-	*
Derbyshire	*	-	-	-	-	-	-	-	*	*	-	90
Northamptonshire	-	-	-	-	-	-	-	-	124	-	-	124
Leicestershire	*	-	-	-	-	-	-	-	-	-	-	*
Norfolk	-	-	-	-	-	-	26	-	40	-	-	65
West Sussex	1	-	-	-	-	-	-	-	3	-	-	4
Gloucestershire	10	-	-	-	-	-	-	-	-	-	-	10
Somerset	*	-	-	-	-	-	-	-	-	-	-	*
Devon	2	*	*	*	-	*	*	-	89	*	-	*
Cornwall	*	-	*	-	-	-	*	-	*	-	-	*
England	304	459	1,050	774	*	335	445	*	806	*	*	4,454
Ciwyd	-	-	-	-	-	*	-	-	-	-	-	*
Dyfed	*	-	-	-	-	-	*	-	*	*	-	*
West Glamorgan	*	*	*	*	-	*	*	-	38	-	-	*
Mid Glamorgan	*	-	*	*	-	*	*	-	*	-	-	*
Gwent	*	-	-	*	*	-	*	-	*	*	-	*
Powys	6	*	*	99	*	*	54	-	*	*	*	*
Wales	10	*	*	128	*	*	245	-	360	*	*	3,114
South of Scotland	13	*	*	277	*	*	*	-	211	*	-	846
West Central Scotland	-	*	*	127	*	*	*	1	*	*	-	368
North East Scotland	*	-	-	*	-	-	*	-	-	-	-	*
Highlands	*	24	-	*	5	17	67	-	256	*	-	420
Orkney	*	*	-	*	*	*	*	-	*	*	-	*
Shetland	*	-	-	*	-	*	*	-	-	-	-	*
Scotland	19	*	*	512	27	*	221	1	646	117	-	1,910
Great Britain	333	999	2,769	1,413	452	658	911	*	1,812	124	*	9,477

Table 4 - IGNEOUS ROCK

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Extractors' sales by end-use and area of origin, 2011

Thousand tonnes

Area of origin	Building stone	Roadstone				Concrete Aggregates	Other screened and graded	Rail Ballast	Other constructional use	Armourstone & Gabion	Industrial uses	Total
		For asphalt on site	For asphalt off site	Uncoated roadstone 1&2	Surface dressing chippings							
Northumberland	*	248	*	*	*	149	*	*	*	*	*	1122
Durham	-	*	-	-	*	*	*	-	-	*	-	*
North Yorkshire	-	*	-	-	-	-	-	-	-	*	-	*
Cumbria	-	*	*	*	*	*	*	*	11	*	-	*
Shropshire	*	*	474	241	*	*	*	*	*	*	-	1280
Warwickshire	*	*	*	*	-	*	*	-	*	-	*	*
Leicestershire	*	*	*	*	1249	2056	*	*	*	975	-	11201
Somerset	-	205	-	225	-	-	-	-	327	-	-	758
Devon	-	-	-	*	*	*	*	*	*	*	-	*
Cornwall	9	133	78	210	73	898	151	1	156	112	-	1823
England	*	1,840	3,393	2,130	1,433	3,165	1,670	*	1,541	1,110	*	17,428
Clwyd	-	-	-	-	-	-	-	*	*	*	-	*
Gwynedd	25	*	*	*	13	93	*	*	*	*	*	*
Dyfed	*	*	*	89	*	*	76	-	*	1	-	552
Powys	*	*	*	*	*	*	*	-	*	*	-	*
Wales	*	412	616	247	*	232	140	*	490	82	*	2,450
South of Scotland	*	*	77	*	*	45	389	-	*	*	*	1,036
West Central Scotland	*	404	521	1,719	48	978	708	*	1,169	41	*	5,667
East Central Scotland	*	*	*	781	*	274	*	-	196	*	*	1,893
Tayside and Fife	-	*	*	408	*	*	*	*	322	12	*	1,502
North East Scotland	*	335	*	586	*	195	273	*	409	16	*	1,956
Highlands	-	54	*	*	*	*	*	*	*	30	-	*
Western Isles	-	*	*	*	*	*	*	-	*	*	-	*
Shetland	*	29	-	*	3	*	*	-	10	*	-	*
Scotland	94	1,452	1,399	6,626	*	2,126	3,599	*	3,242	136	*	19,113
Great Britain	*	3,704	5,409	9,003	1,688	5,523	5,410	1,417	5,274	1,329	*	38,990

TABLE 5 - LIMESTONE & DOLOMITE

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Extractors' sales by end-use and area of origin, 2011

Area of origin	For construction uses										Industrial and agricultural uses (including material for calcination)									Total
	Building stone	Roadstone		Uncoated road-stone	Surface dressing chippings	Concrete Aggregates	Other screened and graded	Rail Ballast	Other construction uses	Armour-stone & Gabion	Cement	Agricultural uses	Iron & steel	Chemical uses	Building materials	Environmental uses (a)	Glass making	Asphalt filler	Other fillers (b)	
Northumberland	-	*	*	*	-	*	*	-	-	-	-	*	-	-	-	-	-	-	*	
Tyne & Wear	-	-	-	33	-	-	38	-	25	-	-	97	-	-	-	-	-	-	194	
Durham	*	*	*	444	175	191	398	-	300	*	-	241	*	-	-	-	*	-	2408	
Cleveland	-	-	-	-	49	-	-	-	-	-	-	38	-	-	-	-	-	-	88	
North Yorkshire	3	290	*	793	10	1245	776	-	639	*	-	*	*	-	-	-	-	-	4503	
West Yorkshire	-	-	-	-	-	10	-	-	-	-	-	-	-	-	-	-	-	-	10	
South Yorkshire	*	-	-	*	-	*	*	-	*	*	-	*	*	-	-	-	*	-	1361	
Humberside	-	-	-	-	-	-	14	-	-	-	-	10	-	-	-	-	-	-	25	
Lancashire	*	-	*	369	-	*	*	-	*	*	*	*	*	-	-	-	*	-	2332	
Cumbria	2	102	277	212	105	407	301	-	261	*	-	17	*	-	-	-	1	-	2777	
Cheshire	-	-	-	-	-	-	*	-	-	-	-	-	-	-	-	-	-	-	*	
Shropshire	*	-	-	*	-	*	*	-	*	-	-	*	-	-	-	-	-	-	*	
Staffordshire	*	*	*	*	-	*	*	-	*	-	1010	*	-	-	-	-	*	-	*	
Hereford & Worcester	*	-	-	-	-	-	-	-	*	-	-	*	-	-	-	-	-	-	*	
Derbyshire	7	*	*	1019	-	1796	3674	-	616	*	*	204	*	*	*	*	*	*	14986	
Northamptonshire	*	-	-	33	-	-	-	-	*	-	-	*	-	-	-	-	-	-	*	
Leicestershire	*	*	*	*	-	*	*	-	*	-	*	68	-	-	-	-	-	-	2719	
Lincolnshire	17	-	-	*	-	-	*	-	*	-	*	58	-	-	*	-	-	-	438	
Cambridgeshire	-	-	35	-	-	-	-	-	*	-	-	9	-	-	-	-	-	-	*	
Suffolk	-	*	-	-	-	-	*	-	-	-	-	-	-	-	-	-	-	-	*	
Essex	-	-	-	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*	
Hertfordshire	-	-	-	-	-	*	*	-	-	-	-	-	-	-	-	-	-	-	*	
Buckinghamshire	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
Oxfordshire	2	-	-	*	-	*	-	-	*	*	-	*	-	-	-	-	-	-	389	
Kent	-	-	-	*	-	*	*	-	*	*	-	-	-	-	-	-	-	-	*	
Hampshire	-	-	-	-	-	-	*	-	-	-	-	-	-	-	-	-	-	-	*	
Isle of Wight	-	-	-	-	-	-	-	-	*	-	-	-	-	-	-	-	-	-	*	
Gloucestershire	*	*	*	*	-	283	*	-	250	-	-	64	*	-	-	-	*	-	1029	
Wiltshire	6	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	7	
Avon	*	*	*	*	-	831	*	-	337	*	-	*	-	-	-	-	*	-	3041	
Somerset	9	346	*	1992	-	2360	*	*	2127	*	-	*	*	-	-	-	*	*	9384	
Dorset	*	-	*	*	-	-	*	-	*	-	-	3	-	-	1	-	-	-	25	
Devon	*	64	*	*	*	*	*	-	*	*	-	61	-	-	-	-	*	-	*	
Cornwall	-	-	-	-	-	-	-	-	-	-	-	*	-	-	-	-	-	-	*	
England	*	1,755	*	6,668	*	8,759	7,952	*	6,524	154	6,125	1,279	2,530	*	*	*	206	*	49,772	
Clwyd	*	107	*	353	-	713	*	-	683	*	*	33	-	-	-	-	*	-	3,431	
Gwynedd	*	-	-	*	-	-	*	-	-	-	-	*	-	-	-	-	-	-	*	
Dyfed	*	*	-	132	-	293	*	-	*	*	-	*	*	-	-	-	-	-	1,033	
Mid Glamorgan	*	*	*	*	-	667	451	*	*	*	*	*	*	-	-	-	*	-	2,579	
South Glamorgan	*	*	-	*	-	*	*	-	*	-	*	-	-	-	-	-	-	-	559	
Gwent	-	-	-	*	-	*	*	-	*	*	-	-	-	-	-	-	-	-	*	
Powys	-	-	-	-	-	*	*	-	*	-	-	*	-	-	-	-	-	-	*	
Wales	*	345	*	964	-	1,831	*	*	1,352	*	818	*	*	-	-	-	*	-	7,897	
West Central Scotland	-	-	-	35	-	*	4	-	*	-	-	*	-	-	-	-	*	-	*	
East Central Scotland	-	-	-	*	-	-	-	-	*	-	*	-	-	-	-	-	*	-	*	
Tayside and Fife	-	-	-	-	-	-	-	-	-	-	-	*	-	-	-	-	-	-	*	
North East Scotland	-	-	-	*	-	-	-	-	-	-	-	*	-	-	-	-	-	-	200	
Highlands	*	-	-	18	*	*	*	-	*	*	-	27	-	-	-	-	*	*	120	
Orkney	-	-	-	-	-	-	-	-	-	-	-	*	-	-	-	-	-	-	*	
Scotland	*	-	-	150	*	27	*	-	26	*	*	*	-	-	-	-	*	*	1,251	
Great Britain	204	2,100	4,379	7,782	*	10,618	9,742	*	7,903	167	*	*	*	*	*	*	206	114	635	58,920

FOOTNOTE : The total sales of dolomite alone for 2011 was 4,490 thousand tonnes.

In PA1007 2010, the additional Table 5A reported only Dolomite figures. From 2011, Table 5 now reflects both Limestone and Dolomite data combined throughout the end uses.

See also note 8

TABLE 6 - PEAT

PA1007

Extractors' sales by end-use and area of origin, 2011

Thousand cubic metres

Area of Origin	Horticultural use	Other uses	Total
Lancashire	*	-	*
Cumbria	210	-	210
Greater Manchester	114	-	114
Cheshire	*	-	*
Norfolk	*	-	*
Somerset	63	-	63
England	429	-	429
South of Scotland	135	-	135
West Central Scotland	*	*	*
East Central Scotland	*	*	*
North East Scotland	4	13	17
Highlands	1	3	4
Orkney	1	-	1
Shetland	-	*	*
Scotland	369	26	395
Great Britain	798	26	825

Extractors' sales by end-use and area of origin, 2011

Thousand tonnes

Area of origin	Roadstone				Concrete Aggregates	Other screened and graded	Rail Ballast	Other constructional uses	Armourstone & gabion	Total
	For asphalt on site	For asphalt off site	Uncoated roadstone	Surface dressing chippings						
Northumberland	257	*	*	*	242	*	*	*	*	1,263
Tyne & Wear	-	-	33	-	-	38	-	25	-	96
Durham	*	*	444	*	192	474	-	301	15	1,992
Cleveland	-	-	-	49	-	-	-	-	-	49
North Yorkshire	291	1,170	793	*	1,300	842	-	669	*	5,284
West Yorkshire	*	-	*	*	10	11	-	*	*	312
South Yorkshire	-	-	*	-	*	*	-	*	*	*
Humberside	-	-	-	-	-	14	-	-	-	14
Lancashire	-	*	697	-	484	*	-	*	*	2,139
Cumbria	311	581	214	*	407	521	*	276	71	2,674
Cheshire	-	-	-	-	-	*	-	34	-	*
Shropshire	*	698	450	*	146	185	*	235	*	2,233
Staffordshire	*	*	*	-	*	*	-	*	-	*
Warwickshire	*	*	*	-	*	*	-	*	-	*
Hereford & Worcester	*	-	*	-	*	*	*	*	-	330
Derbyshire	*	*	1,019	-	1,796	3,673	-	620	*	7,841
Northamptonshire	-	-	33	-	-	-	-	207	-	240
Leicestershire	912	*	1,591	1,249	2,198	1,281	*	*	975	12,319
Lincolnshire	-	-	*	-	-	*	-	*	-	270
Cambridgeshire	-	35	-	-	-	-	-	*	-	*
Norfolk	-	-	-	-	-	26	-	40	-	65
Suffolk	*	-	-	-	-	*	-	-	-	*
Essex	-	-	*	-	-	-	-	-	-	*
Hertfordshire	-	-	-	-	*	*	-	-	-	*
Oxfordshire	-	-	*	-	*	-	-	*	*	349
Kent	-	-	*	-	*	*	-	*	*	*
West Sussex	-	-	-	-	-	-	-	3	-	3
Hampshire	-	-	-	-	-	*	-	-	-	*
Isle of Wight	-	-	-	-	-	-	-	*	-	*
Gloucestershire	*	*	*	-	283	*	-	250	-	879
Avon	*	*	*	-	830	*	-	337	*	2,999
Somerset	552	*	2,217	-	2,360	*	*	2,454	*	10,009
Dorset	-	*	*	-	-	*	-	*	-	*
Devon	*	*	*	*	413	*	*	651	4	1,960
Cornwall	133	160	211	73	898	186	1	220	112	1,994
England	4,054	8,572	9,572	2,045	12,259	10,067	1,033	8,872	1,269	57,744
Clwyd	107	*	353	-	712	*	*	684	*	3,147
Gwynedd	*	*	114	13	93	46	*	*	*	994
Dyfed	187	*	221	*	406	*	-	405	*	1,509
West Glamorgan	*	*	*	-	*	*	-	38	-	566
Mid Glamorgan	*	*	*	-	681	451	*	338	*	2,661
South Glamorgan	*	-	*	-	*	*	-	*	-	241
Gwent	-	-	*	*	*	*	-	*	*	*
Powys	*	1,013	171	*	*	83	-	498	*	*
Wales	1,205	2,460	1,339	275	2,237	2,141	*	2,202	*	12,034
South of Scotland	181	195	525	*	73	453	-	325	*	1,867
West Central Scotland	411	528	1,881	*	1,049	764	*	1,294	45	6,071
East Central Scotland	*	*	794	*	274	*	-	197	*	1,905
Tayside and Fife	*	*	408	*	*	*	*	322	12	1,502
North East Scotland	335	*	718	*	195	279	*	409	16	2,075
Highlands	78	*	*	*	514	*	*	*	73	7,180
Western Isles	*	*	*	*	*	*	-	*	*	*
Orkney	*	-	*	*	*	*	-	66	*	*
Shetland	29	-	*	3	*	*	-	10	*	*
Scotland	1,544	1,525	7,288	159	2,303	3,855	*	3,914	*	21,151
Great Britain	6,803	12,557	18,199	2,480	16,799	16,063	1,421	14,988	1,620	90,928

TABLE 8 - CLAY & SHALE

Extractors' sales by end-use and area of origin 2011

PA1007

Thousand tonnes

Area of Origin	Bricks, pipes & tiles	Cement	Constructional uses	Other uses	Total
Northumberland	*	-	-	-	*
Tyne & Wear	124	-	-	-	124
Durham	154	-	-	-	154
North Yorkshire	-	-	*	*	*
West Yorkshire	218	-	-	-	218
South Yorkshire	84	-	*	*	*
Humberside	*	*	-	1	*
Lancashire	76	-	80	-	156
Cumbria	23	-	20	-	42
Greater Manchester	*	-	-	-	*
Cheshire	*	-	-	-	*
Shropshire	*	-	-	-	*
Staffordshire	*	*	-	-	836
West Midlands	317	-	-	-	317
Warwickshire	68	*	-	-	*
Hereford & Worcester	150	-	-	-	150
Derbyshire	*	*	-	-	261
Leicestershire	*	*	-	-	601
Nottinghamshire	*	-	*	-	*
Cambridgeshire	*	-	-	-	*
Essex	2	*	*	-	*
Hertfordshire	10	-	-	-	10
Buckinghamshire	*	-	-	-	*
Berkshire	-	-	*	-	*
Surrey	*	-	-	1	*
Kent	*	-	*	*	101
East Sussex	*	-	-	-	*
West Sussex	293	-	-	-	293
Hampshire	15	-	-	*	*
Greater London	-	-	*	-	*
Gloucestershire	32	-	15	1	47
Avon	*	-	-	-	*
Dorset	*	-	-	-	*
Devon	-	-	-	37	37
Cornwall	-	-	-	*	*
England	*	*	324	126	5,852
Clwyd	*	-	6	-	*
Dyfed	-	-	*	10	*
Powys	-	-	45	-	45
Wales	*	-	*	10	165
South of Scotland	-	-	*	-	*
West Central Scotland	-	-	*	-	*
East Central Scotland	-	*	-	-	*
Tayside and Fife	-	-	*	-	*
Scotland	-	*	*	-	137
Great Britain	3,983	1,474	561	136	6,154

TABLE 9 - CHALK
Extractors' sales by end-use and area of origin, 2011

PA1007

Thousand tonnes

Area of origin	Cement	Other Constructional	Agricultural uses	Industrial uses	Total
Humberside	*	188	83	*	1,849
Lincolnshire	-	*	*	*	*
Cambridgeshire	-	*	*	*	*
Norfolk	-	-	39	-	39
Suffolk	-	-	34	-	34
Essex	-	-	11	-	11
Hertfordshire	-	-	*	-	*
Bedfordshire	*	-	-	-	*
Surrey	-	-	8	-	8
Kent	-	31	44	-	75
West Sussex	-	-	*	-	*
Hampshire	-	*	*	-	*
Isle of Wight	-	*	*	-	*
Devon	-	-	15	-	15
England	*	276	*	*	3,996

NB Only those parts of GB producing chalk are identified

See also note 8

TABLE 10 - FIRECLAY

PA1007

Extractors' totals sales by area of origin, 2011

Thousand tonnes

Area of origin	Total
Northumberland	*
West Yorkshire	*
Shropshire	46
Leicestershire	67
England	154
West Central Scotland	8
Scotland	8
Great Britain	162

TABLE 11 - ORE MINERALS
Extractors' sales by end-use and area of origin, 2011

PA1007
 Thousand tonnes

Mineral	Area of origin	Estimated recoverable mineral & metal content
Iron (Crude ore sold in tonnes)	Cumbria, Gloucestershire	-
Other Ore Minerals (Total crude ore sold in tonnes)	Cornwall, Derbyshire, Tayside & Fife	*
Barium sulphate	Derbyshire, Tayside and Fife	31
Calcium fluoride	Derbyshire	*
Lead	Derbyshire	-

TABLE 12 - OTHER MINERALS

Extractors' sales by end-use and area of origin, 2011

PA1007

Thousand tonnes

Mineral	Area of origin	Sales	
Ball clay	Dorset, Devon	*	
Chert and Flint	Surrey, Kent, Hampshire	*	
China clay	Devon, Cornwall	*	
Gypsum	Cumbria, Staffordshire, Leicestershire Nottinghamshire, East Sussex	*	
Potash (refined)	Cleveland	*	
Rock salt	Cleveland, Cheshire, Nottinghamshire, North East Scotland	5,771	
Salt from brine			
Salt in brine			
Silica stone	Durham	*	
Slate (includes some "roofing stone")	Northumberland, Cumbria, Derbyshire Oxfordshire, Wiltshire, Devon Cornwall, Clwyd, Gwynedd, Dyfed West Central Scotland, East Central Scotland Tayside and Fife, North East Scotland	763	(a)
Soapstone & Talc	Shetland	4	

(a) Roofing and vertically hanging slates, includes 'true' slate and stone slates produced from thinly bedded sandstones and limestones. Also includes 'true' and stone slates sold as sawn slabs for decorative cladding.
Roofing (including roofing slates used vertically) 18 ; Cladding and other decorative uses 8 ; Powder and granules * ; Crude Blocks 22; Fill and other uses 700.

TABLE 13 - ALL MINERALS
Employment by mineral and area, 2011

PA1007

Area	Mineral											Total number
	Industrial sand	Sand & gravel (a)	Sandstone	Igneous rock	Limestone	Dolomite	Chalk	Clay & shale	Fireclay	Peat	Ore & other minerals	
Cleveland	-	3	-	-	-	6	-	-	-	-	961	970
Durham	-	58	9	9	102	418	-	3	-	-	2	601
Northumberland	-	98	38	193	-	-	-	2	103	-	-	434
Tyne & Wear	2	1	-	-	-	51	-	6	-	-	-	60
Humberside	15	93	-	-	30	-	247	22	-	-	-	407
North Yorkshire	-	250	127	-	465	8	-	7	-	-	-	857
South Yorkshire	19	85	-	-	81	157	-	4	-	-	-	346
West Yorkshire	-	20	481	-	2	-	-	60	14	-	-	577
Cumbria	-	219	70	136	403	-	-	1	-	192	186	1,207
Cheshire	145	177	51	-	-	-	-	1	-	1	225	600
Greater Manchester	-	23	5	-	-	-	-	11	-	16	-	55
Lancashire	-	24	139	-	407	-	-	18	-	37	-	625
Merseyside	-	1	-	-	-	-	-	-	-	-	-	1
Hereford & Worcester	10	190	39	-	3	-	-	2	-	-	-	244
Shropshire	-	137	340	218	62	-	-	9	16	2	-	784
Staffordshire	3	423	6	-	127	-	-	61	-	-	40	660
Warwickshire	-	47	-	129	-	-	-	25	-	-	-	201
West Midlands	-	128	-	-	-	-	-	13	-	-	-	141
Derbyshire	-	40	132	-	1,302	41	-	21	-	-	4	1,540
Leicestershire	-	78	-	1,302	131	-	-	20	5	-	50	1,586
Lincolnshire	3	68	-	-	143	-	48	-	-	-	-	262
Northamptonshire	-	9	17	-	6	-	-	-	-	-	-	32
Nottinghamshire	-	358	-	-	-	-	-	11	-	-	57	426
Essex	1	295	-	-	-	-	4	9	-	-	-	309
Bedfordshire	-	277	-	-	-	-	21	-	-	-	-	298
Hertfordshire	-	73	-	-	-	-	34	2	-	-	-	109
Cambridgeshire	-	141	-	-	31	-	27	10	-	-	-	209
Norfolk	41	151	9	-	-	-	22	-	-	1	-	224
Suffolk	-	217	-	-	-	-	23	-	-	-	-	240
Berkshire	-	118	-	-	-	-	-	1	-	-	-	119
Buckinghamshire	-	94	-	-	13	-	-	3	-	-	-	110
East Sussex	-	2	-	-	-	-	-	19	-	-	25	46
Greater London	-	96	-	-	-	-	-	3	-	-	-	99
Hampshire	-	217	-	-	-	-	8	1	-	-	-	226
Isle of Wight	-	12	-	-	1	-	12	-	-	-	-	25
Kent	3	148	-	-	84	-	130	12	-	-	1	378
Oxfordshire	-	292	-	-	75	-	-	-	-	-	-	367
Surrey	16	217	-	-	-	-	-	58	-	-	-	291
West Sussex	-	84	20	-	-	-	8	66	-	-	-	178
Avon	-	2	-	-	224	-	-	8	-	-	-	234
Cornwall	2	45	175	188	3	-	-	-	-	-	373	786
Devon	-	225	28	1	973	-	6	-	-	-	41	1,274
Dorset	-	229	1	-	66	-	-	1	-	-	15	312
Gloucestershire	-	283	19	-	267	-	-	19	-	-	10	598
Somerset	-	50	4	137	735	-	-	-	-	39	-	965
Wiltshire	-	169	-	-	22	-	-	-	-	-	-	191
England	260	5,967	1,710	2,313	5,758	681	590	509	138	288	1,990	20,204
Clwyd	-	107	-	-	277	-	-	3	-	-	9	396
Dyfed	-	69	12	74	220	-	-	5	-	-	1	381
Gwent	-	2	13	-	23	-	-	-	-	-	-	38
Gwynedd	-	19	-	107	30	-	-	-	-	-	268	424
Mid Glamorgan	-	-	48	-	237	11	-	-	-	-	-	296
Powys	-	1	434	32	-	-	-	8	-	-	-	475
South Glamorgan	-	2	-	-	34	15	-	-	-	-	-	51
West Glamorgan	-	3	117	-	-	-	-	-	-	-	-	120
Wales	-	203	624	213	821	26	-	16	-	-	278	2,181
East Central Scotland	-	47	-	213	41	-	-	-	-	45	-	346
Highlands	-	105	37	221	26	7	-	-	-	2	-	398
North East Scotland	-	238	39	202	23	-	-	-	-	4	1	507
Orkney Isles	-	3	120	-	1	-	-	-	-	4	-	128
Shetland Isles	-	5	7	92	-	-	-	-	-	2	1	107
South Of Scotland	-	133	190	155	-	-	-	-	-	34	-	512
Tayside & Fife	62	147	3	167	3	-	-	-	-	-	25	407
West Central Scotland	-	444	44	801	23	-	-	1	130	36	3	1,482
Western Isles	-	14	-	46	-	-	-	-	-	-	-	60
Scotland	62	1,136	440	1,897	117	7	-	1	130	127	30	3,947
Great Britain	322	7,306	2,774	4,423	6,696	714	590	526	268	415	2,298	26,332

These figures should not be used for time series analysis due to changes in question format over recent years.

(a) Sand and gravel for construction: employment in quarries only

TABLE 14 - ALL MINERALS
Direct Employment by mineral and area, 2011

PA1007

Area	Mineral											Total number
	Industrial sand	Sand & gravel (a)	Sandstone	Igneous rock	Limestone	Dolomite	Chalk	Clay & shale	Fireclay	Peat	Ore & other minerals	
Cleveland	-	3	-	-	-	6	-	-	-	-	799	808
Durham	-	1	9	9	47	212	-	3	-	-	1	282
Northumberland	-	21	19	44	-	-	-	2	93	-	-	179
Tyne & Wear	1	1	-	-	-	24	-	1	-	-	-	27
Humberside	12	49	-	-	5	-	160	22	-	-	-	248
North Yorkshire	-	75	49	-	139	5	-	7	-	-	-	275
South Yorkshire	3	24	-	-	18	36	-	3	-	-	-	84
West Yorkshire	-	17	342	-	2	-	-	36	3	-	-	400
Cumbria	-	33	23	41	117	-	-	1	-	81	180	476
Cheshire	67	26	24	-	-	-	-	1	-	1	186	305
Greater Manchester	-	20	2	-	-	-	-	3	-	12	-	37
Lancashire	-	14	69	-	68	-	-	6	-	37	-	194
Merseyside	-	1	-	-	-	-	-	-	-	-	-	1
Hereford & Worcester	10	26	22	-	3	-	-	2	-	-	-	63
Shropshire	-	96	44	68	5	-	-	4	1	2	-	220
Staffordshire	2	123	6	-	25	-	-	16	-	-	40	212
Warwickshire	-	27	-	26	-	-	-	4	-	-	-	57
West Midlands	-	42	-	-	-	-	-	9	-	-	-	51
Derbyshire	-	40	105	-	406	32	-	5	-	-	4	592
Leicestershire	-	26	-	296	54	-	-	5	3	-	50	434
Lincolnshire	1	68	-	-	67	-	16	-	-	-	-	152
Northamptonshire	-	9	2	-	6	-	-	-	-	-	-	17
Nottinghamshire	-	96	-	-	-	-	-	8	-	-	23	127
Essex	1	65	-	-	-	-	1	9	-	-	-	76
Bedfordshire	-	55	-	-	-	-	11	-	-	-	-	66
Hertfordshire	-	73	-	-	-	-	18	2	-	-	-	93
Cambridgeshire	-	37	-	-	11	-	19	7	-	-	-	74
Norfolk	39	76	8	-	-	-	7	-	-	1	-	131
Suffolk	-	63	-	-	-	-	8	-	-	-	-	71
Berkshire	-	32	-	-	-	-	-	1	-	-	-	33
Buckinghamshire	-	25	-	-	3	-	-	3	-	-	-	31
East Sussex	-	2	-	-	-	-	-	15	-	-	25	42
Greater London	-	47	-	-	-	-	-	1	-	-	-	48
Hampshire	-	46	-	-	-	-	4	1	-	-	-	51
Isle of Wight	-	7	-	-	1	-	3	-	-	-	-	11
Kent	3	63	-	-	35	-	76	8	-	-	1	186
Oxfordshire	-	44	-	-	28	-	-	-	-	-	-	72
Surrey	16	49	-	-	-	-	-	49	-	-	-	114
West Sussex	-	20	20	-	-	-	5	64	-	-	-	109
Avon	-	2	-	-	95	-	-	4	-	-	-	101
Cornwall	1	13	21	79	3	-	-	-	-	-	301	418
Devon	-	125	20	1	237	-	2	-	-	-	33	418
Dorset	-	76	1	-	55	-	-	1	-	-	6	139
Gloucestershire	-	33	15	-	120	-	-	4	-	-	8	180
Somerset	-	7	4	35	238	-	-	-	-	31	-	315
Wiltshire	-	37	-	-	17	-	-	-	-	-	-	54
England	156	1,835	805	599	1,805	315	330	307	100	165	1,657	8,074
Clwyd	-	28	-	-	95	-	-	3	-	-	7	133
Dyfed	-	50	6	50	82	-	-	3	-	-	1	192
Gwent	-	2	13	-	13	-	-	-	-	-	-	28
Gwynedd	-	13	-	41	17	-	-	-	-	-	228	299
Mid Glamorgan	-	-	24	-	86	11	-	-	-	-	-	121
Powys	-	1	78	31	-	-	-	7	-	-	-	117
South Glamorgan	-	2	-	-	22	5	-	-	-	-	-	29
West Glamorgan	-	3	52	-	-	-	-	-	-	-	-	55
Wales	-	99	173	122	315	16	-	13	-	-	236	974
East Central Scotland	-	26	-	54	37	-	-	-	-	22	-	139
Highlands	-	63	10	190	16	4	-	-	-	2	-	285
North East Scotland	-	65	16	104	10	-	-	-	-	4	1	200
Orkney Isles	-	3	18	-	1	-	-	-	-	4	-	26
Shetland Isles	-	2	4	26	-	-	-	-	-	2	1	35
South Of Scotland	-	48	66	32	-	-	-	-	-	13	-	159
Tayside & Fife	42	64	2	80	1	-	-	-	-	-	18	207
West Central Scotland	-	161	11	262	15	-	-	1	110	16	1	577
Western Isles	-	8	-	35	-	-	-	-	-	-	-	43
Scotland	42	440	127	783	80	4	-	1	110	63	21	1,671
Great Britain	198	2,374	1,105	1,504	2,200	335	330	321	210	228	1,914	10,719

These figures should not be used for time series analysis due to changes in question format over recent years.

(a) Sand and gravel for construction: employment in quarries only

TABLE 15 - ALL MINERALS

PA1007

Contractors Employed by mineral and area, 2011

Area	Mineral											Total number
	Industrial sand	Sand & gravel (a)	Sandstone	Igneous rock	Limestone	Dolomite	Chalk	Clay & shale	Fireclay	Peat	Ore & other minerals	
Cleveland	-	-	-	-	-	-	-	-	-	-	162	162
Durham	-	-	-	-	4	4	-	-	-	-	-	8
Northumberland	-	5	9	6	-	-	-	-	6	-	-	26
Tyne & Wear	-	-	-	-	-	3	-	3	-	-	-	6
Humberside	1	-	-	-	-	-	35	-	-	-	-	36
North Yorkshire	-	4	2	-	19	2	-	-	-	-	-	27
South Yorkshire	4	3	-	-	2	7	-	1	-	-	-	17
West Yorkshire	-	-	50	-	-	-	-	14	4	-	-	68
Cumbria	-	5	5	6	34	-	-	-	-	1	-	51
Cheshire	1	3	5	-	-	-	-	-	-	-	39	48
Greater Manchester	-	1	1	-	-	-	-	-	-	2	-	4
Lancashire	-	-	12	-	18	-	-	5	-	-	-	35
Hereford & Worcester	-	4	5	-	-	-	-	-	-	-	-	9
Shropshire	-	-	8	2	1	-	-	2	-	-	-	13
Staffordshire	-	16	-	-	2	-	-	11	-	-	-	29
Warwickshire	-	1	-	2	-	-	-	6	-	-	-	9
West Midlands	-	2	-	-	-	-	-	-	-	-	-	2
Derbyshire	-	-	11	-	46	1	-	5	-	-	-	63
Leicestershire	-	1	-	54	4	-	-	5	-	-	-	64
Lincolnshire	1	-	-	-	7	-	-	-	-	-	-	8
Nottinghamshire	-	8	-	-	-	-	-	-	-	-	30	38
Essex	-	9	-	-	-	-	-	-	-	-	-	9
Bedfordshire	-	4	-	-	-	-	10	-	-	-	-	14
Cambridgeshire	-	19	-	-	-	-	3	3	-	-	-	25
Norfolk	1	4	-	-	-	-	5	-	-	-	-	10
Suffolk	-	10	-	-	-	-	8	-	-	-	-	18
Berkshire	-	-	-	-	-	-	-	-	-	-	-	-
Buckinghamshire	-	1	-	-	-	-	-	-	-	-	-	1
East Sussex	-	-	-	-	-	-	-	4	-	-	-	4
Greater London	-	10	-	-	-	-	-	-	-	-	-	10
Hampshire	-	2	-	-	-	-	-	-	-	-	-	2
Kent	-	10	-	-	1	-	-	1	-	-	-	12
Oxfordshire	-	4	-	-	6	-	-	-	-	-	-	10
Surrey	-	4	-	-	-	-	-	1	-	-	-	5
West Sussex	-	1	-	-	-	-	-	-	-	-	-	1
Avon	-	-	-	-	6	-	-	-	-	-	-	6
Cornwall	1	2	1	19	-	-	-	-	-	-	5	28
Devon	-	4	-	-	31	-	-	-	-	-	5	40
Dorset	-	14	-	-	6	-	-	-	-	-	5	25
Gloucestershire	-	-	-	-	20	-	-	-	-	-	2	22
Somerset	-	3	-	9	44	-	-	-	-	2	-	58
Wiltshire	-	3	-	-	1	-	-	-	-	-	-	4
England	9	157	109	98	252	17	61	61	10	5	248	1,027
Clwyd	-	2	-	-	6	-	-	-	-	-	-	8
Dyfed	-	4	2	10	6	-	-	-	-	-	-	22
Gwynedd	-	-	-	4	-	-	-	-	-	-	8	12
Mid Glamorgan	-	-	2	-	11	-	-	-	-	-	-	13
Powys	-	-	13	-	-	-	-	-	-	-	-	13
South Glamorgan	-	-	-	-	4	5	-	-	-	-	-	9
West Glamorgan	-	-	8	-	-	-	-	-	-	-	-	8
Wales	-	6	25	14	27	5	-	-	-	-	8	85
East Central Scotland	-	-	-	10	-	-	-	-	-	3	-	13
Highlands	-	4	5	2	1	-	-	-	-	-	-	12
North East Scotland	-	2	6	-	-	-	-	-	-	-	-	8
Orkney Isles	-	-	-	-	-	-	-	-	-	-	-	-
Shetland Isles	-	1	-	2	-	-	-	-	-	-	-	3
South Of Scotland	-	2	9	3	-	-	-	-	-	1	-	15
Tayside & Fife	2	7	-	2	-	-	-	-	-	-	1	12
West Central Scotland	-	9	3	23	-	-	-	-	16	5	1	57
Western Isles	-	1	-	4	-	-	-	-	-	-	-	5
Scotland	2	26	23	46	1	-	-	-	16	9	2	125
Great Britain	11	189	157	158	280	22	61	61	26	14	258	1,237

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(a) Sand and gravel for construction: employment in quarries only

TABLE 16 - ALL MINERALS
Drivers on site in an average week by mineral and area, 2011

PA1007

Area	Mineral											Total number
	Industrial sand	Sand & gravel (a)	Sandstone	Igneous rock	Limestone	Dolomite	Chalk	Clay & shale	Fireclay	Peat	Ore & other minerals	
Durham	-	57	-	-	51	202	-	-	-	-	1	311
Northumberland	-	72	10	143	-	-	-	-	4	-	-	229
Tyne & Wear	1	-	-	-	-	24	-	2	-	-	-	27
Humberside	2	44	-	-	25	-	52	-	-	-	-	123
North Yorkshire	-	171	76	-	307	1	-	-	-	-	-	555
South Yorkshire	12	58	-	-	61	114	-	-	-	-	-	245
West Yorkshire	-	3	89	-	-	-	-	10	7	-	-	109
Cumbria	-	181	42	89	252	-	-	-	-	110	6	680
Cheshire	77	148	22	-	-	-	-	-	-	-	-	247
Greater Manchester	-	2	2	-	-	-	-	8	-	2	-	14
Lancashire	-	10	58	-	321	-	-	7	-	-	-	396
Hereford & Worcester	-	160	12	-	-	-	-	-	-	-	-	172
Shropshire	-	41	288	148	56	-	-	3	15	-	-	551
Staffordshire	1	284	-	-	100	-	-	34	-	-	-	419
Warwickshire	-	19	-	101	-	-	-	15	-	-	-	135
West Midlands	-	84	-	-	-	-	-	4	-	-	-	88
Derbyshire	-	-	16	-	850	8	-	11	-	-	-	885
Leicestershire	-	51	-	952	73	-	-	10	2	-	-	1,088
Lincolnshire	1	-	-	-	69	-	32	-	-	-	-	102
Northamptonshire	-	-	15	-	-	-	-	-	-	-	-	15
Nottinghamshire	-	254	-	-	-	-	-	3	-	-	4	261
Essex	-	221	-	-	-	-	3	-	-	-	-	224
Bedfordshire	-	218	-	-	-	-	-	-	-	-	-	218
Hertfordshire	-	-	-	-	-	-	16	-	-	-	-	16
Cambridgeshire	-	85	-	-	20	-	5	-	-	-	-	110
Norfolk	1	71	1	-	-	-	10	-	-	-	-	83
Suffolk	-	144	-	-	-	-	7	-	-	-	-	151
Berkshire	-	86	-	-	-	-	-	-	-	-	-	86
Buckinghamshire	-	68	-	-	10	-	-	-	-	-	-	78
Greater London	-	39	-	-	-	-	-	2	-	-	-	41
Hampshire	-	169	-	-	-	-	4	-	-	-	-	173
Isle of Wight	-	5	-	-	-	-	9	-	-	-	-	14
Kent	-	75	-	-	48	-	54	3	-	-	-	180
Oxfordshire	-	244	-	-	41	-	-	-	-	-	-	285
Surrey	-	164	-	-	-	-	-	8	-	-	-	172
West Sussex	-	63	-	-	-	-	3	2	-	-	-	68
Avon	-	-	-	-	123	-	-	4	-	-	-	127
Cornwall	-	30	153	90	-	-	-	-	-	-	67	340
Devon	-	96	8	-	705	-	4	-	-	-	3	816
Dorset	-	139	-	-	5	-	-	-	-	-	4	148
Gloucestershire	-	250	4	-	127	-	-	15	-	-	-	396
Somerset	-	40	-	93	453	-	-	-	-	6	-	592
Wiltshire	-	129	-	-	4	-	-	-	-	-	-	133
England	95	3,975	796	1,616	3,701	349	199	141	28	118	85	11,103
Clwyd	-	77	-	-	176	-	-	-	-	-	2	255
Dyfed	-	15	4	14	132	-	-	2	-	-	-	167
Gwent	-	-	-	-	10	-	-	-	-	-	-	10
Gwynedd	-	6	-	62	13	-	-	-	-	-	32	113
Mid Glamorgan	-	-	22	-	140	-	-	-	-	-	-	162
Powys	-	-	343	1	-	-	-	1	-	-	-	345
South Glamorgan	-	-	-	-	8	5	-	-	-	-	-	13
West Glamorgan	-	-	57	-	-	-	-	-	-	-	-	57
Wales	-	98	426	77	479	5	-	3	-	-	34	1,122
East Central Scotland	-	21	-	149	4	-	-	-	-	20	-	194
Highlands	-	38	22	29	9	3	-	-	-	-	-	101
North East Scotland	-	171	17	98	13	-	-	-	-	-	-	299
Orkney Isles	-	-	102	-	-	-	-	-	-	-	-	102
Shetland Isles	-	2	3	64	-	-	-	-	-	-	-	69
South Of Scotland	-	83	115	120	-	-	-	-	-	20	-	338
Tayside & Fife	18	76	1	85	2	-	-	-	-	-	6	188
West Central Scotland	-	274	30	516	8	-	-	-	4	15	1	848
Western Isles	-	5	-	7	-	-	-	-	-	-	-	12
Scotland	18	670	290	1,068	36	3	-	-	4	55	7	2,151
Great Britain	113	4,743	1,512	2,761	4,216	357	199	144	32	173	126	14,376

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(a) Sand and gravel for construction: employment in quarries only