

### Weardale Blast Furnace Statistics for 1870s

This document comprises parts of the Geological Survey Mineral Statistics relating to blast furnaces in Weardale in the 1870s. It includes the blast furnaces at Stanhope, Tow Law and Witton Park, using Mineral Statistics published between 1872 and 1880, with records for 1870 to 1879.

For earlier years see "Weardale Blast Furnace Statistics for 1850s" and "Weardale Blast Furnace Statistics for 1860s".

For later years see "Weardale Blast Furnace Statistics for 1880s" and "Weardale Blast Furnace Statistics for 1890s".

The statistics record number of blast furnaces, number in blast and some information about tonnages of iron ore supplied to those furnaces and where it came from. Names of Weardale Iron Mines and details of Bessemer Converters are given, but some may be inaccurate.

The Mineral Statistics are available on-line on the British Geological Survey website, with an index to the annual reports at:

<https://webapps.bgs.ac.uk/data/publications/pubs.cfc?method=listResults&topic=EM&series=UM&subseries=NF&pageSize=100>

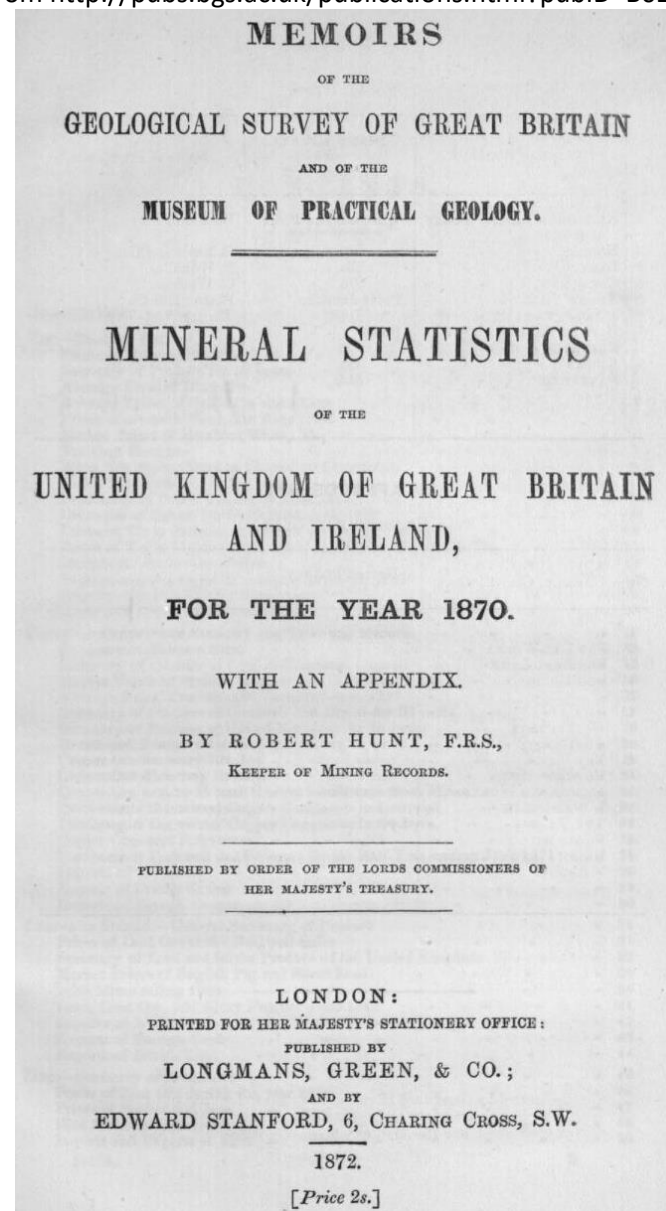
These pages are from the "Mineral Statistics of the United Kingdom of Great Britain and Ireland". These are often known as "Hunts Mineral Statistics" after Robert Hunt who led a team in their compilation within the Geological Survey. They were published between 1860 and 1881 when responsibility for the Mining Records Office passed to the Mines Department of the Home Office and statistics were issued as Parliamentary Papers.

Earlier records are in "Memoirs of the Geological Survey of Great Britain (Mining Records)". This is a series of memoirs on the mineral statistics of Great Britain and Ireland starting for year 1853-54 and running to 1859. They were compiled by the Mining Records Office, which was a component part of the early Survey. The records were produced by Robert Hunt.

The information recorded varied at different times during the 1870s, as can be seen.

### Mineral Statistics for 1870, pub 1872

from <http://pubs.bgs.ac.uk/publications.html?pubID=B02467>



Weardale blast furnaces in 1870, pub 1872

DETAILS of BLAST FURNACES in Blast, and of the MAKE of PIG IRON in the Year 1870.

ENGLAND.

No.	Names of Works.	Owners.	Furnaces built.	Furnaces in blast.	Pig Iron made.
Tons.					
<b>NORTHUMBERLAND.</b>					
1	Elswick - -	Sir W. G. Armstrong & Co.	2	1	
2	Hareshaw - -	Hareshaw Iron Company - -	2	0	
3	Lemington-on-Tyne -	Bulmer and Co. - -	2	0	
4	Walker - -	Losh, Wilson, and Bell - -	3	2	
5	Wallsend - -	Palmer's Shipbuilding and Iron Company (Limited) } - -	2	0	
6	Wylam - -	Bell Brothers - -	1	0	
Total of NORTHUMBERLAND			12	3	33,623
<b>DURHAM.</b>					
1	Acklam, <i>Middlesbro'</i> -	Stevenson, Jaques, & Co. - -	4	4	
2	Birtley, <i>Chester-le-St.</i>	Birtley Iron Company - -	3	0	
3	Carlton, <i>Stockton</i> - -	S. Bastow & Co. - -	2	0	
4	Consett, <i>Durham</i> - -	Consett Iron Co. (Limited) -	17	5 $\frac{1}{2}$	
5	Clarence - -	Bell Brothers & Co. - -	8	8	
6	Felling, <i>Gateshead</i> - -	H. L. Pattinson and Co. - -	2	0	
7	Ferry Hill - -	Rosedale and Ferry Hill Iron Company (Limited). - -	8	8	
8	Jarrow - -	Palmer's Shipbuilding and Iron Company (Limited). - -	5	4	
9	Middleton - -	George Wythes and Co. - -	3	3	
10	Norton - -	Norton Iron Co. (Limited) - -	4	2	
11	South Durham, <i>Darlington.</i>	South Durham Iron Company -	3	2	
12	Towlaw, <i>Darlington</i> , and <i>Tudhoe.</i>	Weardale Iron and Coal Company (Limited). - -	*7	7	
13	Stockton-on-Tees - -	Stockton Rail Mill Co. (Limited). - -	3	3	
14	Thornaby, <i>Stockton</i> - -	William Whitwell & Co. - -	3	3	
15	Vane and Seaham - -	Earl Vane - -	2	0	
16	Washington - -	Washington Iron Company - -	1	0	
17	Wear, <i>Washington</i> - -	Bell Brothers - -	1	1	
Total of DURHAM - -			76	50 $\frac{1}{2}$	676,964
<b>YORKSHIRE,</b>					
1	Ayresome - -	Gjers, Mills, and Co. - -	2	2	
2	Beak Holes - -	Whitby Iron Company - -	2	0	
3	Cargo Fleet - -	Swan, Coates, and Company -	3	3	
4	Carlton - -	Industrial Iron Co. (Limited) -	2	2	
5	Clay Lane, <i>Eston Junction.</i>	Thomas Vaughan - -	6	6	
6	Eston - -	Bolchow, Vaughan, and Company (Limited). } - -	18	12	
7	Middlesbro' - -				
8	Witton Park - -	George Wilson and Co. - -	3	3	
9	Glaisdale, <i>Yarmouth.</i>	Chas. and Thos. Bagnall, jr. -	2	2	
10	Grosmont - -	B. Samuelson and Company - -	7	7	
11	Newport - -	Jones, Dunning, and Co. - -	3	3	
12	Normanby, <i>Middlesbro'</i>	Titanic Ore Co. - -	1	1	
13	Norwegian - -				
Carried forward - -			49	41	

\* 4 Furnaces, 7 months.  
† 3 " 5 "

Weardale Bessemer Converters in 1870, pub 1872

LIST OF WORKS having BESSEMER CONVERTERS in GREAT BRITAIN in 1870.

No.	Names and Situation of Works.	Number of Converters.	Capacity of Converters.	
			Tons.	Cwt.
1	Henry Bessemer and Co., Sheffield - - -	{ 2	4	—
			1	10
2	John Brown and Co., <i>Limited</i> , Sheffield - -	{ 2	10	—
			2	3
3	Charles Cammell and Co., <i>Limited</i> , Sheffield - -	8	5	—
4	Weardale Iron Co., Towlaw - - -	4	2 $\frac{1}{2}$	—
5	J. M. Rowan and Co., Atlas Works, Glasgow - -	1	3	—
6	Samuel Fox and Co., Deepcar - - -	2	3	—
7	Lloyds, Foster, and Co., Old Park, Wednesbury -	4	3	—
8	Bolton Iron and Steel Works, Bolton - - -	4	6	—
9	London and North Western Railway, Crewe - -	2	3	—
10	Lancashire Steel Co., Gorton - - -	2	6	—
11	Mersey Steel and Iron Works, Liverpool - - -	2	5	—
12	Manchester Steel and Railway Plant Co., Gibraltar Works, Newton Heath, Manchester - -	}	4	3
13	Barrow Hematite Steel Co., Barrow - - -		6	5 $\frac{1}{2}$
14	The Dowlais Iron Co., Dowlais - - -	6	5	—
15	Ebbw Vale Co., Ebbw Vale - - -	}	7	5
16	Ditto ditto - - -			
17	Bessemer and Sons, Greenwich - - -	2	5	—
18	West Cumberland, Workington* - - -	—	—	—
19	Phoenix Iron Co., Rotherham - - -	2	4	—

\* Four of seven and a half tons each in course of construction.

BESSEMER WORKS in other COUNTRIES, 1868.\*

Country	Number of Works
In United States of America	7 works,
France	5 "
Belgium	1 "
Prussia	7 "
Austria	10 "
Sweden	12 "
Russia	1 "
India	1 "

\* On the authority of a work on Bessemer steel issued with the sanction of the Iron and Steel Association of the United States. Corroborated by Mr. Henry Bessemer.

Durham iron ore record (p.70) in 1870, pub 1872

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IRON ORE RETURNS, 1870.

No.	District or Mine.	Character of Ore.	Quantities.	Value.
YORKSHIRE NORTH RIDING OR CLEVELAND DISTRICT.	1	Cleveland Iron Stone Mines	Argillaceous Carbonate	Tons. cwts. 831,787 10 £ s. d. 207,946 12 6
	2	Upleatham - - -	Ditto - - -	578,820 0 144,705 0 0
	3	Ditto ( <i>Hob Hill</i> ) - - -	Ditto - - -	380,828 0 95,207 0 0
	4	Lofthouse - - -	Ditto - - -	311,221 0 77,805 5 0
	5	Normanby - - -	Ditto - - -	215,615 0 53,903 15 0
	6	Cliff Mine - - -	Ditto - - -	208,448 0 52,112 0 0
	7	Skelton - - -	Ditto - - -	100,182 0 25,045 10 0
	8	Port Mulgrave - - -	Ditto - - -	150,541 0 37,635 5 0
	9	Belmont - - -	Ditto - - -	227,553 10 56,888 7 6
	10	Spa - - -	Ditto - - -	109,023 0 27,255 15 0
	11	Spa Wood - - -	Ditto - - -	35,599 2 8,899 15 0
	12	Belmont, South - - -	Ditto - - -	57,376 0 19,344 0 0
	13	Glaisdale ( <i>Yarm</i> ) - - -	Ditto - - -	35,926 0 8,981 10 0
	14	Grosmont - - -	Ditto - - -	88,952 0 22,138 2 0
	15	Eskdale - - -	Ditto - - -	9,956 0 1,742 6 0
	16	Brotton - - -	Ditto - - -	414,000 0 103,500 0 0
	17	Rosedale* - - -	Magnetic - - -	317,060 0 79,265 0 0
Total of CLEVELAND			4,072,888 1 1,022,375 3 0	
WEST RIDING.	1	Low Moor - - -	Argillaceous Carbonate	68,000 0 17,000 0 0
	2	Kimberworth - - -	Ditto - - -	2,496 0 624 0 0
	3	Farnley - - -	Ditto - - -	14,000 0 3,500 0 0
	4	West Ardsley - - -	Ditto - - -	37,000 0 9,250 0 0
	5	Bowling - - -	Ditto - - -	36,221 0 9,055 5 0
	6	Sundry Mines - - -	Ditto - - -	150,000 0 37,500 0 0
	Total of WEST RIDING			307,717 0 76,929 5 0
Total of NORTH RIDING			4,072,888 1 1,022,375 3 0	
Total of YORKSHIRE			4,380,605 1 1,099,304 8 0	
NORTHUMBERLAND AND DURHAM.	1	Sundry Coal Mines - - -	Argillaceous - - -	125,000 0 43,750 0 0
	2	Weardale - - -	Spathose Ore - - -	100,332 0 25,083 0 0
	Total of NORTHUMBERLAND and DURHAM			225,332 0 68,833 0 0

\* See North Eastern Railway Return (Ferryhill).

Durham iron ore record (p.71) in 1870, pub 1872

IRON ORE RETURNS, 1870.

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STATEMENT of IRON ORE conveyed over the NORTH-EASTERN RAILWAY in the Year 1870.

FROM.	To.	Weight to each District.	Total Weight.	
NORTHUMBERLAND, and DISTRICT of NEWCASTLE and CARLISLE RAILWAY.	NEWCASTLE DISTRICT, viz.:			
	Elswick - - -	Tons. cwts. 12,243 11	Tons. cwts. 12,243 11	
	DARLINGTON DISTRICT, viz.:			
	Towlaw - - -	Tons. cwts. 992 17		
	South Durham - - -	152 0		
		1,144 17		
	NEWCASTLE DISTRICT -	NEWCASTLE DISTRICT, viz.:		
		Elswick - - -	Tons. cwts. 17 7	
		Sunderland - - -	116 1	
		Fencehouses - - -	884 7	
	Felling - - -	20 0		
	Benfieldside - - -	5,374 1		
		6,411 16		
	DARLINGTON DISTRICT, viz.:			
	Darlington - - -	Tons. cwts. 7,348 0		
	Ferryhill - - -	1,966 6		
	Bishop Auckland	261 11		
	Etherley - - -	250 9		
		9,860 10		
	STOCKTON DISTRICT, viz.:			
	Stockton - - -	Tons. cwts. 299 3		
	West Hartlepool - - -	325 19		
		625 2		
DARLINGTON DISTRICT -	DARLINGTON DISTRICT, viz.:			
	Thornaby - - -	Tons. cwts. 91 0		
	Towlaw - - -	96,715 0		
		96,806 0		
	STOCKTON DISTRICT, viz.:			
	Cargo Fleet - - -	Tons. cwts. 14,996 0		
	Linthorpe - - -	11,616 0		
	Middlesbro' - - -	99 0		
	Middleton - - -	3,816 0		
	North Shore - - -	234 0		
	Norton - - -	3,531 0		
		34,292 0		
STOCKTON DISTRICT -	DARLINGTON DISTRICT, viz.:			
	Witton - - -	Tons. cwts. 52,774 0		
		52,774 0		
	Carried forward - - -		161,329 16	

Durham iron ore record (p.72) in 1870, pub 1872

72 IRON ORE RETURNS, 1870.			
From.	To.	Weight to each District.	Total Weight.
	Brought forward - -	Tons. cwts.	Tons. cwts. 161,329 16
	STOCKTON DISTRICT, viz.:		
	Tons. cwts.		
	Cargo Fleet - - 315 0		
	Middlesbro' - - 65,245 0		
	South Bank - - 1,693 0		
	Thornaby - - 461 0		
		67,714 0	
	NEWCASTLE DISTRICT, viz.:		120,488 0
	Tons. cwts.		
	Consett - - 100,988 0		
	Elswick - - 21,218 0		
	Washington - - 54,461 0		
		17,667 0	
	DARLINGTON DISTRICT, viz.:		
	Tons. cwts.		
	Ferryhill - - 80,180 0		
	South Durham - - 99,142 0		
	Towlaw - - 11,887 0		
	Tudhoe - - 125 0		
	Witton - - 11,032 0		
		142,366 0	
			319,033 0
	STOCKTON DISTRICT, viz.:		
	Acklam - - 228,677 0		
	Clay Lane - - 10,972 0		
	Clarence - - 273,223 0		
	Linthorpe - - 233,277 0		
	Middleton - - 125,159 0		
	Newport - - 299,659 0		
	Normanby Jetty 245,509 9		
	North Stockton - 65,728 0		
	Ormesby - - 139,503 0		
	South Stockton - 226,498 0		
	Tees Side - - 369,011 0		
	Thornaby - - 129,584 0		
	Walker - - 22,742 0		
	Cargo Fleet - - 156,593 0		
	Middlesbro' - - 686 0		
	Norton - - 34,075 0		
		2,560,896 0	
	WHITBY DISTRICT, viz.:		
	Tons. cwts.		
	Glaisdale - - 5,332 0		
		5,332 0	
			2,566,228 0
	DARLINGTON DISTRICT, viz.:		
	Tons. cwts.		
	Ferryhill - - 317,060 1		
		317,060 1	
			3,167,078 16
	Carried forward - -		

Durham iron ore record (p.73) in 1870, pub 1872

73 IRON ORE RETURNS, 1870.			
From.	To.	Weight to each District.	Total Weight.
	Brought forward - -	Tons. cwts.	Tons. cwts. 3,167,078 16
	STOCKTON DISTRICT, viz.:		
	Tons. cwts.		
	Acklam - - 441 0		
	Eston - - 6,628 8		
	Newport - - 314 5		
	Norton - - 58,375 7		
	South Stockton - 795 9		
		66,554 9	
	CLEVELAND DISTRICT, viz.:		
	Tons. cwts.		
	Rosedale Beh. - 217 10		
		217 10	383,832 0
	WHITBY DISTRICT, viz.:		
	Tons. cwts.		
	Glaisdale - - 30,594 2		
	Goathland - - 16,842 1		
	Grosmont - - 4,198 17		
		51,635 0	
			51,635 0
ULVERSTONE ORE - -	NEWCASTLE DISTRICT, viz.:		
	Tons. cwts.		
	Benfieldside - 19,213 4		
	Bishop Auckland - 1,189 1		
	Gateshead - - 2,440 6		
	Redhugh - - 39 13		
	South Shields - 182 14		
	Sunderland - - 40 4		
	Fencehouses - - 56 0		
		23,161 2	
	DARLINGTON DISTRICT, viz.:		
	Tons. cwts.		
	Darlington - - 2,746 0		
	Rise Carr - - 46 0		
	Skerne - - 744 0		
	Whessoe - - 157 0		
	Witton - - 60 0		
		3,753 0	
	STOCKTON DISTRICT, viz.:		
	Tons. cwts.		
	Acklam - - 52 0		
	Hartlepool - - 25 16		
	Middlesbro' - - 492 0		
	Newport - - 278 0		
	North Yorkshire - 1,252 0		
	Stockton - - 9,751 4		
	Thornaby - - 352 0		
	West Hartlepool - 1,529 11		
		13,732 11	
			40,646 13
	HULL DISTRICT, viz.:		
	Tons. cwts.		
	Hull - - 83 17		
		83 17	
			3,643,192 9
	Carried forward - -		

Durham iron ore record (p.74) in 1870, pub 1872

IRON ORE RETURNS, 1870.			
From.	To.	Weight to each District.	Total Weight.
	Brought forward - -	Tons. cwts.	Tons. cwts. 3,643,192 9
	YORK DISTRICT, viz.:		
	York - - -	Tons. cwts. 56 11	140 8
WHITEHAVEN ORE - -	NEWCASTLE DISTRICT, viz.:		
	Benfieldside - -	Tons. cwts. 43,775 2	
	Bishop Auckland - -	72 14	
	Fencehouses - -	347 0	
	Gateshead - -	337 4	
	Redheugh - -	41 9	
	South Shields - -	6,767 5	
	Sunderland - -	765 11	
		52,106 5	
	DARLINGTON DISTRICT, viz.:		
	Darlington - -	Tons. cwts. 4,604 0	
	Skerne - -	31 0	
	South Durham - -	2,538 0	
	Whessoe - -	330 0	
	Witton - -	49,040 0	
		56,543 0	
	STOCKTON DISTRICT, viz.:		
	Acklam - -	Tons. cwts. 105 0	
	Cleveland - -	120 0	
	Hartlepool - -	4,569 0	
	Middlesbro' - -	27,487 0	
	Newport - -	30 0	
	North Yorkshire - -	211 0	
	Stockton - -	2,773 11	
	Thornaby - -	9,949 7	
	West Hartlepool - -	4,696 0	
		6,022 18	
		55,963 16	
	HULL DISTRICT, viz.:		
	Sculcoates - -	Tons. cwts. 39 16	164,613 1
	LEEDS DISTRICT, viz.:		
	Castleford - -	Tons. cwts. 189 2	189 2
	YORK DISTRICT, viz.:		
	York - - -	Tons. cwts. 48 18	277 16
	Carried forward - -		3,808,223 14

Durham iron ore record (p.75) in 1870, pub 1872

IRON ORE RETURNS, 1870.			
From.	To.	Weight to each District.	Total Weight.
	Brought forward - -	Tons. cwts.	Tons. cwts. 3,808,223 14
SOUTH - - - -	NEWCASTLE DISTRICT, viz.:		
	Benfieldside - -	Tons. cwts. 1,636 14	
	South Shields - -	12 8	
		1,649 2	
	DARLINGTON DISTRICT, viz.:		
	Darlington - -	Tons. cwts. 1,465 16	1,465 16
	STOCKTON DISTRICT, viz.:		
	Hartlepool - -	Tons. cwts. 7 2	
	Stockton - -	12 7	
	West Hartlepool - -	201 9	
		220 18	
	HULL DISTRICT, viz.:		
	Hull - -	Tons. cwts. 117 18	
	Ferriby - -	66 10	
		184 8	
	WHITBY DISTRICT, viz.:		
	Glaisdale - -	Tons. cwts. 407 2	407 2
	YORK DISTRICT, viz.:		
	York - - -	Tons. cwts. 10 0	10 0
SUNDAY PLACES - -	DARLINGTON DISTRICT, viz.:		
	Rise Carr - -	Tons. cwts. 5 0	
	Whessoe - -	139 0	
	Witton - -	245 0	
		389 0	
	STOCKTON DISTRICT, viz.:		
	Acklam - -	Tons. cwts. 756 0	
	Cargo Fleet - -	158 0	
	Newport - -	8 0	
	North Yorkshire - -	2,157 0	
	South Bank - -	747 0	
	Tees Side - -	12 0	
	Thornaby - -	354 0	
	West Hartlepool - -	55 0	
		4,247 0	
			4,636 0
			3,816,797 0
	TOTAL WEIGHT - - -		3,816,797 tons 0 cwts.

Weardale Iron Mines at work in 1870, pub 1872

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IRON MINES, 1870.

No.	Name of Mine.	Situation.	Name of Proprietor or Company.	Name of Manager or Agent.
13	Eskett and Frizington	Whitehaven 3 mines	Eskett Iron Ore Co.	John Burns.
13	Eskett Park	Ditto 7 "	Salter and Eskett Park Co.	Francis Manson.
14	Flouter Tarn	Ditto - "	Faithful, Cookson, & Co.	W. H. Hosking.
15	Frizington	Ditto 4 "	S. W. Smith	Edwd. Roe.
16	Hodbarrow	Holborn Hill 7 "	Barratt, Cairne, & Co.	Jas. Barratt.
17	Holbeck	Ditto 2 "	Hannay and Co.	J. Woolcock.
18	Knocknurton	Whitehaven 1 "	W. Baird & Co.	J. Johnstone.
19	Lamplugh	Ditto 1 "	R. Hannay & Co.	J. Woolcock.
20	Montreal	Ditto - "	John Stirling	—
21	Moor Row	Ditto 1 "	S. and J. Lindow	J. Kitchen.
22	Mowbray	Ditto 1 "	Mowbray Mining Co.	A. Russell.
23	Parkside	Ditto 7 "	Fisher, Deas, Fletcher, and Musgrave.	George Scouler.
24	Roa Pipe	Ditto - "	Faithful, Cookson, & Co.	W. H. Hosking.
25	Startling Dodd	Ditto - "	Faithful, Cookson, & Co.	W. H. Hosking.
26	Winder	Ditto 2 "	S. and J. Lindow	Jas. Kitchen.
27	Ditto	Ditto 1 "	Cumberland Mining & Smelting Co.	J. Massicks.
28	Woodend	Ditto 3 "	Bain, Blair, & Patterson	J. Musgrave.
29	Ditto	Ditto 3 "	—	—
30	Waterblean	Millon - 1 "	John Tyson	Jas. Barratt.

DURHAM AND NORTHUMBERLAND.

1	Silt Pasture	Weardale	Weardale Iron Co.	W. H. Ware.
2	Rowan Tree	Ditto	Ditto	Ditto.
3	Heights	Ditto	Ditto	Ditto.
4	West Silt	Ditto	Ditto	Ditto.
5	North Grain	Ditto	Ditto	Ditto.
6	Rispey	Ditto	Ditto	Ditto.
7	Allergill	Ditto	Allergill Mining Co.	J. T. Bell.
8	Stanhope Burn	Ditto	Weardale Iron Co.	W. H. Ware.

WALES.

GLAMORGANSHIRE.

1	Bute Hematite	Llantrissant	Fothergill Rowland	Daniel Evans.
2	Mwyndy	Ditto	Mwyndy Iron Ore Co. (Limited).	William Fiean.
3	Tenby	Tenby	Kilgetty Company.	—
4	Llwyn Saer	Llantrissant.	—	—

NORTH WALES.

1	Prestatyn	Rhyl	North Wales Iron Ore Company.	—
2	Cwm Mountain	St. Asaph	Ditto	—

ISLE OF MAN.

1	Ballajora	Douglas	The Crown	—
2	Manghold Head	Ditto	Ditto	—
3	Manghold Dernane	North-east coast	Rowe & Beckwith	R. Rowe.

IRELAND.

1	Ballymurtagh	Wicklow	The Wicklow Mining Co.	Edward Barnes.
2	Ballycastle	Antrim	Ballycastle Iron M. Co.	E. Sheppard.
3	Glenravel	Stievarne, Antrim	James Fisher	Hugh V. Ram.
4	Larne	Carriekfergus	Antrim Iron Ore Co.	Silas Evans, Secretary.
5	Glenanne	Ditto	Ditto	Ditto.
6	Carulough	Ditto	Ditto	Ditto.
7	Red Bay or Glengariff	Ditto	Ditto	Ditto.
8	Parkmoor	Layd, Antrim	Parkmoor Iron Ore Co.	Thos Falconer.

SCOTLAND.

1	Auchencairn	Castle Douglas	Auchencairn Hematite Company.	Joseph Henderson.
2	Gilnochie	Langholm	Duke of Buccleuch	Mr. Bowie.

Mineral Statistics for 1871, pub 1872

from <http://pubs.bgs.ac.uk/publications.html?pubID=B02468>

MEMOIRS

OF THE

GEOLOGICAL SURVEY OF GREAT BRITAIN

AND OF THE

MUSEUM OF PRACTICAL GEOLOGY.

MINERAL STATISTICS

OF THE

UNITED KINGDOM OF GREAT BRITAIN  
AND IRELAND,

FOR THE YEAR 1871.

WITH AN APPENDIX.

BY ROBERT HUNT, F.R.S.,  
KEEPER OF MINING RECORDS.

PUBLISHED BY ORDER OF THE LORDS COMMISSIONERS OF  
HER MAJESTY'S TREASURY.

LONDON:

PRINTED FOR HER MAJESTY'S STATIONERY OFFICE:

PUBLISHED BY

LONGMANS, GREEN, & CO.;

AND BY

EDWARD STANFORD, 6, CHARING CROSS, S.W.

1872.

[Price 2s.]

29806.

### Weardale blast furnaces in 1871, pub 1872

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IRON MANUFACTURE RETURNS, 1871.

DETAILS of BLAST FURNACES in Blast, and of the MAKE of PIG IRON in the Year 1871.

#### ENGLAND.

No.	Names of Works.	Owners.	Furnaces built.	Furnaces in blast.	Pig Iron made.	
					Tons.	
NORTHUMBERLAND.	1	Elswick - - -	Sir W. G. Armstrong & Co.	2	1	
	2	Hareshaw - - -	Hareshaw Iron Company -	2	0	
	3	Lemington-on-Tyne -	Bulmer and Co. - - -	2	0	
	4	Walker - - -	Losh, Wilson, and Bell -	3	2	
	5	Wylam - - -	Bell Brothers - - -	1	0	
Total of NORTHUMBERLAND			10	3	34,165	
DURHAM.	1	Acklam, <i>Middlesbro'</i> -	Stevenson, Jaynes, & Co. -	4	4	
	2	Birtley, <i>Chester-le-St.</i> -	Birtley Iron Company -	3	0	
	3	Consett, <i>Gateshead</i> -	Consett Iron Co. ( <i>Limited</i> ) -	12	5 $\frac{1}{2}$	
	4	Clarence - - -	Bell Brothers - - -	8	8	
	5	Felling, <i>Gateshead</i> -	H. L. Pattinson and Co. -	2	0	
	6	Ferry Hill - - -	Rosedale and Ferry Hill Iron Company ( <i>Limited</i> ).	8	8	
	7	Jarrow - - -	Palmer's Shipbuilding and Iron Company ( <i>Limited</i> ).	4	4	
	8	Middleton - - -	Georges, Wythes, and Co. -	3	3	
	9	Norton - - -	Norton Iron Co. ( <i>Limited</i> ) -	3	3	
	10	Norwegian - - -	Titanic Iron Ore Co. -	2	2	
	11	Seaham - - -	Watson, Kipling, & Co. -	1	0	
	12	South Durham, <i>Darlington</i> .	South Durham Iron Company	3	*3	
	13	Thornaby, <i>Stockton</i> -	William Whitwell & Co. -	3	3	
	14	Towlaw - - -	Weardale Iron and Coal Company ( <i>Limited</i> ).	4	†3	
	15	Wear, <i>Washington</i> -	Bell Brothers - - -	1	1	
Total of DURHAM -			61	47 $\frac{1}{2}$	759,244	
YORKSHIRE, NORTH RIDING OR CLEVELAND DISTRICT.	1	Ayresome - - -	Gjers, Mills, and Co. -	4	2	
	2	Cargo Fleet - - -	Swan, Coates, and Company	4	‡3	
	3	Carlton - - -	Industrial Iron and Coal Co.	§2	2	
	4	Clay Lane, <i>Eston Junction</i> .	Thomas Vaughan - - -	6	6	
	5	Eston - - -	Bolehow, Vaughan, and Company ( <i>Limited</i> ).	15	15	
	6	Middlesbro' - - -				
	7	Witton Park - - -				
	8	Glaidsdale, <i>Yarmouth</i> -	George Wilson and Co. -	3	2	
	9	Grosmont - - -	Chas. and Thos. Bagnall, jr.	2	2	
	10	Lackenby - - -	Lackenby Iron Company -	§2	2	
	11	Linthorpe - - -	Lloyd & Co. - - -	6	6	
	12	Newport - - -	B. Samuelson and Company	7	7	
	13	Normanby, <i>Middlesbro'</i>	Jones, Dunning, and Co. -	3	3	
Carried forward -			54	50	725,596	

\* 1 for 6 months only.  
‡ 1 for 9 months only.

† 3 for 10 months, and 2 for 2 months.  
§ One building.

### Weardale Bessemer Converters in 1871, pub 1872

IRON MANUFACTURE RETURNS, 1871.

101

LIST OF WORKS having BESSEMER CONVERTERS in GREAT BRITAIN in 1871.

No.	Name and Situation of Works.	Number of Converters.	Capacity of Converters.	
			Tons.	Cwt.
1	Henry Bessemer and Co., Sheffield - - -	{ 2	3	—
			2	5
2	John Brown and Co., <i>Limited</i> , Sheffield -	{ 2	10	—
			4	6
3	Charles Cammell and Co., <i>Limited</i> , Sheffield -	8	5	—
4	Weardale Iron Co., Towlaw - - -	4	2 $\frac{1}{2}$	—
5	The Glasgow Bessemer Steel Co., <i>Limited</i> , Atlas Works, Glasgow - - -	} 2	3	—
			2	5
6	Samuel Fox and Co., Stockbridge Works, Deepcar -	{ 2	3	—
			4	4
7	Lloyds, Foster, and Co., Old Park, Wednesbury -	4	5	—
8	Bolton Iron and Steel Works, Bolton - - -	4	3	—
9	London and North Western Railway, Crewe -	2	5	—
10	Lancashire Steel Co., Gorton* - - -	2	5	—
11	Mersey Steel and Iron Works, Liverpool -	4	5	—
12	Manchester Steel and Railway Plant Co., Gibraltar Works, Newton Heath, Manchester - - -	} 4	3	—
			18	6
13	Barrow Haematite Steel Co., Barrow - - -	6	5	—
14	The Dowlais Iron Co., Dowlais - - -	6	5	—
15	Ebbw Vale Co., Ebbw Vale - - -	7	5	—
16	Steel Ordnance Co., Limited, Greenwich -	2	5	—
17	West Cumberland, Workington - - -	4	7 $\frac{1}{2}$	—
18	Phoenix Iron Co., Rotherham - - -	2	3 $\frac{1}{2}$	—
19	Carnforth Haematite Iron Co., <i>Limited</i> -	2†	—	—

\* And two in course of erection.

† Not yet at work.

Durham iron ore record (p.77) in 1871, pub 1872

IRON ORE RETURNS, 1871.

77

No.	District or Mine.	Character of Ore.	Quantities.		Value.	
			Tons. cwts.	£ s. d.	£ s. d.	£ s. d.
YORKSHIRE, NORTH RIDING OR CLEVELAND DISTRICT.	1	Cleveland Iron Stone Mines	Argillaceous Carbonate	532,821 11	133,205 0 0	
	2	Cargo Fleet - - -	Ditto - - -	11,887 0	2,972 0 0	
	3	Upleatham - - -	Ditto - - -	607,234 15	151,808 12 0	
	4	Ditto ( <i>Hob Hill</i> ) - - -	Ditto - - -	427,295 12	106,824 8 0	
	5	Lofthouse - - -	Ditto - - -	387,376 18	96,844 4 0	
	6	Liverton - - -	Ditto - - -	290,000 0	72,500 0 0	
	7	Normanby - - -	Ditto - - -	256,023 0	64,005 0 0	
	8	Cliff - - -	Ditto - - -	266,084 7	66,521 0 0	
	9	Skelton - - -	Ditto - - -	114,076 4	28,519 1 0	
	10	Port Mulgrave - - -	Ditto - - -	135,000 0	33,750 0 0	
	11	Belmont - - -	Ditto - - -	213,525 10	53,381 5 0	
	12	Spa or Margrave Park - - -	Ditto - - -	128,486 0	32,121 5 0	
	13	Spa Wood - - -	Ditto - - -	59,811 1	14,952 15 0	
	14	Belmont, South - - -	Ditto - - -	35,871 16	8,967 19 0	
	15	Glaisdale ( <i>Yarm</i> ) - - -	Ditto - - -	* 30,000 0	7,500 0 0	
	16	Grosmont - - -	Ditto - - -	99,509 8	24,877 7 0	
	17	Eskdale side - - -	Ditto - - -	29,001 8	6,750 2 0	
	18	Birtley ( <i>Eshdaleside</i> ) - - -	Ditto - - -	5,518 0	1,379 10 0	
	19	Crags Hall - - -	Ditto - - -	223,984 0	55,996 0 0	
	20	Brotton - - -	Ditto - - -	414,000 0	103,500 0 0	
	21	Rosedale† - - -	Magnetic - - -	314,394 16	78,598 14 0	
Total of CLEVELAND				4,581,901 0	1,144,974 2 0	
WEST RIDING.	1	Low Moor - - -	Argillaceous Carbonate	75,487 0	18,859 5 0	
	2	Kimberworth - - -	Ditto - - -	1,730 0	432 10 0	
	3	Farnley - - -	Ditto - - -	25,983 0	6,495 15 0	
	4	Bowling - - -	Ditto - - -	36,083 0	9,020 0 0	
	5	Sundry Mines - - -	Ditto - - -	250,000 0	62,500 0 0	
	6	White Horse - - -	Ditto - - -	18,764 0	4,691 0 0	
Total of WEST RIDING				407,997 0	101,998 10 0	
Total of NORTH RIDING				4,581,901 0	1,144,974 2 0	
Total of YORKSHIRE				4,989,898 0	1,246,972 12 0	
NORTHUMBERLAND AND DURHAM.	1	Sundry Coal Mines - - -	Argillaceous - - -	175,000 0	43,750 0 0	
	2	Weardale - - -	Ditto - - -	900 0	250 0 0	
	3	Ditto - - -	Spathose Ore - - -	88,449 0	22,112 5 0	
	4	Ridsdale, ( <i>Bellingham</i> ) - - -	Argillaceous - - -	20,948 0	5,237 0 0	
Total of NORTHUMBERLAND and DURHAM				285,297 0	71,349 5 0	

\* Estimated

† See North-eastern Railway Return.

Durham iron ore record (p.78) in 1871, pub 1872

IRON ORE RETURNS, 1871.

78

STATEMENT of IRON ORE conveyed over the NORTH-EASTERN RAILWAY in the Year 1871.

From.	To.	Weight to each District.	Total Weight.
NORTHUMBERLAND, and DISTRICT of NEWCASTLE and CARLISLE RAILWAY.	NEWCASTLE DISTRICT, viz.:		
	Elswick - - -	Tons. cwts. 22,196 12	
NEWCASTLE DISTRICT	DARLINGTON DISTRICT, viz.:		
	Towlaw - - -	Tons. cwts. 2,318 16	24,515 8
NEWCASTLE DISTRICT	NEWCASTLE DISTRICT, viz.:		
	Fencehouses - - -	Tons. cwts. 1,535 5	
	Bishop Auckland - - -	393 10	
	South Shields - - -	15 19	
DARLINGTON DISTRICT, viz.,	Benfieldside - - -	6,380 0	
	Sunderland - - -	24 0	8,348 14
	Darlington - - -	2,857 18	
	Etherley - - -	827 1	
STOCKTON DISTRICT, viz.:	Widness Dock - - -	100 10	
	Sowerby Bridge - - -	28 6	3,813 15
	Stockton - - -	222 12	
	West Hartlepool - - -	27 0	249 12
DARLINGTON DISTRICT	DARLINGTON DISTRICT, viz.:		
	Tudhoe - - -	Tons. cwts. 18,515 0	
	Towlaw - - -	89,373 0	
	Witton - - -	350 0	
STOCKTON DISTRICT, viz.:	Darlington - - -	2,056 14	110,294 14
	Thornaby Works - - -	Tons. cwts. 369 0	
	Newport - - -	13,819 0	
	Linthorpe - - -	29,652 0	
NORTHUMBERLAND AND DURHAM.	Middlesbro' - - -	138 0	
	Tees Iron Works - - -	2,779 0	
	Cargo Fleet - - -	5,687 0	
	Norton Iron Works - - -	10,271 0	62,715 0
Carried forward - - -			173,009 14
			209,937 3

Durham iron ore record (p.79) in 1871, pub 1872

IRON ORE RETURNS, 1871.			
From.	To.	Weight to each District.	Total Weight.
	Brought forward - -	Tons. cwt.	Tons. cwt.
			209,937 3
STOCKTON DISTRICT -	DARLINGTON DISTRICT, viz.:		
	Tons. cwt.		
	Witton - - 88,075 11		
	Darlington - - 1,562 0		
	Skerne - - 16 0		
	Whessoe - - 104 0		
		89,757 11	
	STOCKTON DISTRICT, viz.:		
	Tons. cwt.		
	Middlesbro' - 90,676 0		
	Britannia Iron Co. 248 0		
	West Hartlepool 213 0		
	West Marsh - 99 0		
	Thornaby - - 1,254 0		
	Aeklam - - 1,761 0		
	Middlesbro' Chemical Works - 1,098 0		
	Cargo Fleet - 6,059 0		
	South Bank Iron Works - - 6,845 0		
	Norton - - 399 0		
	Rise Carr - - 367 0		
	Newport - - 10 0		
	Imperial Iron Co. 1,238 0		
	Ayresome - - 1,837 0		
	Ayrton - - 150 0		
	West Stockton - 1,719 0		
	North Yorkshire 264 0		
	Tees Side - - 52 0		
	Clay Lane - - 90 0		
		114,379 0	
CLEVELAND DISTRICT, via STOCKTON and DARLINGTON RAILWAY.	NEWCASTLE DISTRICT, viz.:		204,136 11
	Tons. cwt.		
	Washington - 54,280 0		
	Jarrow Iron Works 8,456 0		
	Elswick - - 16,692 0		
	Redbeugh - 9 0		
	Consett - - 111,239 0		
		190,676 0	
	DARLINGTON DISTRICT, viz.:		
	Tons. cwt.		
	South Durham - 108,218 0		
	Witton - - 5,518 0		
	Towlaw - - 9,408 0		
	Tudhoe - - 57,129 0		
		180,273 0	
	STOCKTON DISTRICT, viz.:		
	Tons. cwt.		
	Middlesbro' - 590 2		
	Carlton - - 36,768 8		
	Thornaby Iron Works - - 111,033 0		
	Carried forward - -	370,949 0	414,073 14

Durham iron ore record (p.80) in 1871, pub 1872

IRON ORE RETURNS, 1871.			
From.	To.	Weight to each District.	Total Weight.
	Brought forward - -	Tons. cwt.	Tons. cwt.
			370,949 0
	STOCKTON DISTRICT, viz.:-cont.		
	Tons. cwt.		
	Newport - - 935,749 0		
	Tees Side - - 185,064 0		
	Linthorpe - - 262,174 0		
	Tees Iron Works 238,075 0		
	Ayresome - - 76,733 0		
	Middleton Iron Works - - 49,958 0		
	North Shore Iron Works - - 191,706 0		
	Stockton - - 121,945 0		
	Norton - - 31,358 0		
	Clarence - - 453,888 0		
	Walker - - 53,049 0		
	Cargo Fleet - 199,092 0		
	Lackenby - - 27,025 0		
	Cleveland - - 2,683 0		
	Aeklam - - 223,303 0		
	Ormesby - - 167,200 0		
	Clay Lane - - 676 0		
	Normanby - - 142,978 0		
	Middlesbro' Iron Works - - 84,722 0		
		2,995,764 10	
	WHITBY DISTRICT, viz.:		3,366,713 10
	Tons. cwt.		
	Glaisdale - - 1,460 0		
		1,460 0	
	DARLINGTON DISTRICT, viz.:		1,460 0
	Tons. cwt.		
	Ferryhill - - 314,065 8		
		314,065 8	
	STOCKTON DISTRICT, viz.:		
	Tons. cwt.		
	Eston - - 12,365 8		
	Norton - - 77,101 8		
	Middlesbro' - 731 11		
	Cargo Fleet - 5,501 1		
		95,699 18	
	WHITBY DISTRICT, viz.:		
	Tons. cwt.		
	Grosmont - - 4,922 17		
	Glaisdale - - 45,744 5		
	Beck Holes - 2,410 12		
		53,077 14	
	CLEVELAND DISTRICT, viz.:		
	Tons. cwt.		
	Rosedale Branch - 105 0		
		105 0	
			462,948 0
	Carried forward - -		4,245,195 4

Durham iron ore record (p.81) in 1871, pub 1872

IRON ORE RETURNS, 1871.		81	
From.	To.	Weight to each District.	Total Weight.
	Brought forward - -	Tons. cwts.	Tons. cwts. 4,245,195 4
ULVERSTONE ORE - -	NEWCASTLE DISTRICT, viz.:		
	Tons. cwts.		
	Benfieldside - 19,626 9		
	Gateshead - 2,155 4		
	South Dock - 981 19		
	South Shields - 1,657 5		
	Sunderland - 74 8		
	Redheugh - 186 1		
	Hylton - 41 18		
	Fencehouses - 452 18		
	<hr/>	25,176 2	
	DARLINGTON DISTRICT, viz.:		
	Tons. cwts.		
	Bishop Auckland - 639 10		
	Witton - 22,033 0		
	Darlington - 883 0		
	South Durham - 1,374 0		
	Whessoe - 132 0		
	Skerne - 830 0		
	Rise Carr - 38 0		
	<hr/>	25,929 10	
	STOCKTON DISTRICT, viz.:		
	Tons. cwts.		
	Hartlepool - 358 18		
	Stockton - 7,010 8		
	West Hartlepool - 3,218 15		
	Norton - 6 2		
	Spennymoor - 67 16		
	North Yorkshire - 117 0		
	Thornaby - 3,809 0		
	Tees Side - 1,711 0		
	Middlesbro' - 51 0		
	South Bank Iron Works - 336 0		
	Ayrton - 155 0		
	Yarm - 52 8		
	West Marsh - 312 0		
	Imperial - 62 0		
	Bowesfield - 439 0		
	<hr/>	17,706 7	
	WHITBY DISTRICT, viz.:		
	Tons. cwts.		
	Glaisdale - 3,834 8		
	<hr/>	3,834 8	
	YORK DISTRICT, viz.:		
	Tons. cwts.		
	York - 69 4		
	<hr/>	69 4	
	<hr/>		47,539 9
	Carried forward - -		4,317,910 15

29806.

F

Durham iron ore record (p.82) in 1871, pub 1872

IRON ORE RETURNS, 1871.		82	
From.	To.	Weight to each District.	Total Weight.
	Brought forward - -	Tons. cwts.	Tons. cwts. 4,317,910 15
WHITEHAVEN ORE - -	NEWCASTLE DISTRICT, viz.:		
	Tons. cwts.		
	Benfieldside - 44,644 8		
	South Shields - 3,985 3		
	Sunderland - 742 17		
	Gateshead - 1,642 4		
	Redheugh - 203 1		
	Bishop Auckland - 113 2		
	Fencehouses - 251 18		
	Elswick - 187 12		
	<hr/>	51,770 5	
	DARLINGTON DISTRICT, viz.:		
	Tons. cwts.		
	Towlaw - 109 18		
	Witton - 19,685 0		
	Darlington - 265 0		
	South Durham - 2,007 0		
	<hr/>	22,066 18	
	STOCKTON DISTRICT, viz.:		
	Tons. cwts.		
	Hartlepool - 4,064 18		
	Stockton - 595 17		
	West Hartlepool - 1,284 11		
	Norton - 2,434 11		
	Thornaby - 8,405 0		
	South Bank Iron Works - 6,448 0		
	Middlesbro' - 8,938 0		
	Tees Side - 690 0		
	Eston - 263 0		
	Linthorpe - 1,227 0		
	Cleveland - 585 0		
	<hr/>	34,935 17	
	WHITBY DISTRICT, viz.:		
	Tons. cwts.		
	Glaisdale - 12,590 5		
	<hr/>	12,590 5	
	SOUTH - - - -		121,363 5
	NEWCASTLE DISTRICT, viz.:		
	Tons. cwts.		
	Benfieldside - 3,155 3		
	<hr/>	3,155 3	
	DARLINGTON DISTRICT, viz.:		
	Tons. cwts.		
	Darlington - 2,561 0		
	Bishop Auckland - 658 13		
	Ferryhill - 143 17		
	Whessoe - 40 0		
	<hr/>	3,403 10	
	<hr/>		6,558 19
	Carried forward - -		4,439,274 0

Durham iron ore record (p.83) in 1871, pub 1872

IRON ORE RETURNS, 1871.

83

From.	To.	Weight to each District.	Total Weight.
		Tons. cwts.	Tons. cwts.
	Brought forward - -	6,558 13	4,439,274 0
<b>STOCKTON DISTRICT, viz.:</b>			
	Tons. cwts.		
Stockton - -	123 2		
West Hartlepool -	14 11		
Carlton - -	438 16		
Newport - -	8 0		
Linthorpe - -	3,225 0		
North Yorkshire -	36 0		
Bowesfield - -	301 0		
Imperial - -	11 0		
Tees Side - -	574 0		
Thornaby - -	247 0		
Cargo Fleet - -	295 0		
		5,273 9	
<b>HULL DISTRICT, viz.:</b>			
	Tons. cwts.		
Sculcoates - -	727 12		
Hull - -	7 8		
		735 0	
<b>WHITBY DISTRICT, viz.:</b>			
	Tons. cwts.		
Glaisdale - -	547 2		
		547 2	
<b>SUNDRY PLACES - - DARLINGTON DISTRICT, viz.:</b>			
	Tons. cwts.		
Towlaw - -	10 0		
Witton - -	376 0		
Rise Carr - -	150 0		
Whessoe - -	49 0		
		565 0	
<b>STOCKTON DISTRICT, viz.:</b>			
	Tons. cwts.		
North Yorkshire -	1,033 10		
Ayrsome - -	220 0		
Newport - -	200 0		
Stockton - -	50 0		
Acklam - -	273 0		
	650 0		
Tees Side - -	21 0		
Middlesbro' - -	26 0		
West Hartlepool -	144 0		
South Bank Iron Works - -	456 0		
Bowesfield - -	149 0		
Cargo Fleet - -	6,344 0		
Imperial - -	491 0		
Ayrton - -	862 0		
Norton - -	224 0		
West Marsh - -	1,012 0		
Linthorpe - -	57 0		
Britannia - -	2,744 0		
		14,936 10	
			15,501 10
			4,467,889 14
<b>TOTAL WEIGHT - - - 4,467,889 tons 14 cwts.</b>			

F 2

Weardale Iron Mines at work in 1871, pub 1872

IRON MINES, 1871.

183

No.	Name of Mine.	Situation.	Name of Proprietor or Company.	Name of Manager or Agent.
22	Stainton - -	Near Dalton, office	Messrs. Brogden & Co.,	J. Cook.
		Ulverstone	Ulverstone.	
23	Stonefolds - -	Near Dalton - -	Furness Iron and Steel	Josh. Ravlinson, Esq.
			Co. (Lim.), Dalton.	Sub-Manager James
				Parker.
24	Whitriggs - -	Ditto - -	Harrison, Ainslie, & Co.	Aymer Ainslie, Esq.
			Ulverstone.	Sub-Manager Edmund
25	Ditto - -	Ditto - -	Barrow Ham. Steel	Ray.
			Co. (Lim.)	Richard Hosking.
26	Urswick - -	Near Ulverstone -	Walton & Cooper -	Jas. Postlethwaite.
<b>GUMBERLAND.</b>				
1	Agnes Pit - -	Whitehaven, 1 Mines	Fletcher, Miller, & Co.	John Irwine.
2	Arlcedon - -	Ditto 1 "	W. Baird & Co.	J. Johnstone.
3	Birks - -	Ditto 3 "	Frizington Iron Ore Co.	Joseph Fearon.
4	Bigrigg and Woodend	Ditto 6 "	S. and J. Lindow -	Jas. Kitchen.
5	Ditto - -	Ditto 2 "	Wilson, Peile, and Co.	Jno. Thompson.
6	Cleator - -	Ditto 6 "	Cleator Iron Ore Co. -	A. Bell.
7	Crossfield - -	Ditto 9 "	John Sterling - -	W. Miller.
8	Ditto - -	Ditto 4 "	Crossfield Iron Ore Co.	John Main.
9	Crowarth - -	Ditto 1 "	Lord Leonfield -	James Davidson.
10	Eskdale and Miterdale	Ditto - -	Faithful, Cookson, & Co.	W. H. Hosking.
11	Eskett - -	Ditto 3 "	Fisher, Dees, Fletcher,	George Scoular.
			and Musgrave.	
12	Eskett and Frizington	Ditto 3 "	Eskett Iron Ore Co. -	John Burns.
13	Eskett Park - -	Ditto 7 "	Salter and Eskett Park	Wm. Robinson.
			Co.	
14	Flouthern Tarn - -	Ditto - -	Faithful, Cookson, & Co.	W. H. Hosking.
15	Frizington - -	Ditto 4 "	S. W. Smith - -	Edwd. Roe.
16	Frizington Parks - -	Ditto 2 pits	Bain and Paterson -	Thos. Musgrave.
17	Hodbarrow - -	Holborn Hill 7 mines	Barratt, Caine, & Co. -	Jas. Barratt.
18	Holbeck - -	Ditto 2 "	Hannay and Co. -	J. Woolcock.
19	Knockmurton - -	Whitehaven 1 "	W. Baird & Co. -	J. Johnstone.
20	Lamplugh - -	Ditto 1 "	R. Hannay & Co. -	J. Woolcock.
21	Montreal - -	Ditto 8 "	John Sterling - -	—
22	Moor Row - -	Ditto 1 "	S. and J. Lindow -	J. Kitchen.
23	Mowbray - -	Ditto 1 "	Mowbray Mining Co.	A. Russell.
24	Parkside - -	Ditto 7 "	Fisher, Dees, Fletcher,	George Scoular.
			and Musgrave.	
25	Red Pike - -	Ditto - -	Faithful, Cookson, & Co.	W. H. Hosking.
26	Startling Dodd - -	Ditto - -	Faithful, Cookson, & Co.	W. H. Hosking.
27	Winder - -	Ditto 2 "	S. and J. Lindow -	Jas. Kitchen.
28	Ditto - -	Ditto 1 "	Cumberland Mining	Thos. Massicks.
			& Smelting Co.	
29	Ditto - -	Ditto 1 pit	Maryport Iron Co. -	A. Bell.
30	Woodend - -	Ditto 3 mines	Bain and Paterson -	T. Musgrave.
31	Ditto - -	Ditto 3 "	—	—
32	Waterblean - -	Millom - 1	John Tyson - -	Jas. Barratt.
33	Yeathouse - -	Whitehaven 1 pit	Yeathouse Mining Co.	Geo. Wells.
<b>DURHAM AND NORTHUMBERLAND.</b>				
1	Silt Pasture - -	Weardale - -	Weardale Iron Co. -	W. H. Ware.
2	Rowan Tree - -	Ditto - -	Ditto - -	Ditto.
3	Heights - -	Ditto - -	Ditto - -	Ditto.
4	West Silt - -	Ditto - -	Ditto - -	Ditto.
5	North Grain - -	Ditto - -	Ditto - -	Ditto.
6	Rispey - -	Ditto - -	Ditto - -	Ditto.
7	Alkergill - -	Ditto - -	Alkergill Mining Co. -	J. T. Bell.
8	Stanhope Burn - -	Ditto - -	Weardale Iron Co. -	W. H. Ware.
<b>WALES.</b>				
<b>GLAMORGANSHIRE.</b>				
1	Bute Hematite - -	Llantrissant - -	Fothergill Rowland -	Daniel Evans.
2	Mwynydy - -	Ditto - -	Mwynydy Iron Ore Co.	William Ffytan.
			(Limited).	
3	Tenby - -	Tenby - -	Kilgetty Company. -	—
4	Llwyn Saer - -	Llantrissant - -	—	—
<b>NORTH WALES.</b>				
1	Prestatyn - -	Rhyl - -	North Wales Iron Ore	—
			Company.	
	Cwm Mountain -	St. Asaph - -	Ditto	—

**MEMOIRS**  
 OF THE  
 GEOLOGICAL SURVEY OF GREAT BRITAIN  
 AND OF THE  
 MUSEUM OF PRACTICAL GEOLOGY.

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**MINERAL STATISTICS**

OF THE  
 UNITED KINGDOM OF GREAT BRITAIN  
 AND IRELAND,  
 FOR THE YEAR 1872.

WITH AN APPENDIX.

BY ROBERT HUNT, F.R.S.,  
 KEEPER OF MINING RECORDS.

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PUBLISHED BY ORDER OF THE LORDS COMMISSIONERS OF  
 HER MAJESTY'S TREASURY.

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LONDON:  
 PRINTED FOR HER MAJESTY'S STATIONERY OFFICE:  
 PUBLISHED BY  
 LONGMANS, GREEN, & CO.;  
 AND BY  
 EDWARD STANFORD, 6, CHARING CROSS, S.W.

1873.  
 [Price 2s.]

32432.

108 IRON MANUFACTURE RETURNS, 1872.

DETAILS of BLAST FURNACES in Blast, and of the MAKE of PIG IRON  
 in the Year 1872.

**ENGLAND.**

No.	Name of Works.	Owners.	Furnaces built.	Furnaces in blast.	Pig Iron made. Tons.
<b>NORTHUMBERLAND :</b>					
1	Elswick, <i>Newcastle-on-Tyne.</i>	Sir W. G. Armstrong & Co.	2	2*	
2	Hareshaw - -	Hareshaw Iron Company -	—	—	
3	Lenington-on-Tyne -	Bulmer and Co. - -	—	—	
4	Walker, <i>Newcastle-on-Tyne.</i>	Losh, Wilson, and Bell -	2	2	
5	Wylam - -	Bell Brothers - -	—	—	
Total of NORTHUMBERLAND			4	4	38,766
Total Coal returned as used in the Manufacture of Pig Iron			Tons. 108,234		
<b>DURHAM :</b>					
1	Acklam, <i>Middlesbro'</i>	Stevenson, Jaynes, & Co. -	4	4	
2	Clarence, <i>Middlesbro'-on-Tees.</i>	Bell Brothers - -	8	8	
3	Consett, <i>Durham</i> -	Consett Iron Co. ( <i>Limited</i> ) -	5	5	
4	Ferry Hill - -	Rosedale and Ferry Hill Iron Company.	8	8	
5	Jarrow - -	Palmer's Shipbuilding and Iron Company.	4	4	
6	Middleton, <i>Darlington</i>	George, Wythes, and Co. -	3	3	
7	Norton, <i>Stockton-on-Tees.</i>	Norton Iron Co. - -	6	3	
8	Norwegian - -	Titanic Iron Co. - -	2	2	
9	Seaham - -	Watson, Kipling, & Co. -	1	1	
10	South Durham, <i>Darlington.</i>	South Durham Iron Company	3	3	
11	Thornaby, <i>Stockton</i> -	William Whitwell & Co. -	5	3	
12	Towlaw - -	Weardale Iron and Coal Company ( <i>Limited</i> ).	4	2	
13	Tudhoe - -	Weardale Iron Co. - -	2	2†	
14	Wear, <i>Washington</i> -	Bell Brothers - -	1	1	
Total of DURHAM -			56	49	760,172
Total Coal returned as used in the Manufacture of Pig Iron			Tons. 1,782,532		

\* One to March 21st, and two during the rest of the year.  
 † One during part of the year.

### Weardale blast furnaces in 1872, pub 1873, ctd.

IRON MANUFACTURE RETURNS, 1872.				109	
No.	Name of Works.	Owners.	Furnaces built.	Furnaces in blast.	Pig Iron made. Tons.
<b>YORKSHIRE :</b>					
<b>NORTH RIDING :</b>					
1	Ayresome, <i>Middlesbro'-on-Tees.</i>	Gjers, Mills, and Co. -	4	4*	
2	Cargo Fleet, do. -	Swan, Coates, and Company	4	4	
3	Carlton, <i>Stockton-on-Tees.</i>	North of England Industrial Iron and Coal Co. ( <i>Lim.</i> )	3	2	
4	Clay Lane, <i>Eston Junction.</i>	Thomas Vaughan and Co. -	6	6	
5	Coatham, <i>Middlesbro'</i>	Downey and Co. -	2†	—	
6	Middlesbro' -	Bolckow, Vaughan, and Company ( <i>Limited</i> ). }	15	15	
7	Cleveland -				
8	Witton Park -				
9	Glaisdale, <i>Yarm</i> -	South Cleveland Iron Works Co. ( <i>Limited</i> ) -	3	3	
10	Grosmont, <i>Whitby</i> -	Chas. and Thos. Bagnall, jr.	2	2	
11	Lackenby, <i>Middlesbro'</i>	Lackenby Iron Company -	3	2	
12	Linthorpe, do. -	Lloyd & Co. -	6	6	
13	Newport, do. -	B. Samuelson and Company	8	7‡	
14	Normanby, do. -	Jones, Dunning, and Co. -	3	3	
15	Ormesby, do. -	Cochrane and Co. -	4	3	
16	South Bank, do. -	Thomas Vaughan and Co. -	9	7‡	
17	Tees, do. -	Gilkes, Wilson, Pease, & Co.	5	4‡	
18	Tees Side, do. -	Hopkins, Gilkes, & Co. ( <i>Lim.</i> )	4	4	
Total of NORTH RIDING -			81	73‡	1,122,114
<b>Total Coal returned as used in the Manufacture of Pig Iron</b>			Tons. <b>2,533,781</b>		
<b>YORKSHIRE :</b>					
<b>WEST RIDING :</b>					
1	West Yorkshire, <i>Ardley.</i>	West Yorkshire Iron and Coal Company ( <i>Limited</i> ). -	5	4	
2	Beeston Manor, do. -	A. Harding and Co. -	2	1	
3	Bowling, <i>Bradford</i> -	Bowling Iron Co. ( <i>Lim.</i> ) -	6	5	
4	Elsecar } <i>Barnsley</i> -	W. H. and Geo. Dawes -	6	4	
5	Milton -				
6	Farnley, <i>Leeds</i> -	Farnley Iron Co. ( <i>Lim.</i> ) -	4	2	
7	Holmes -	Parkgate Iron Company ( <i>Limited</i> ) -	5	5	
8	Parkgate, <i>Rotherham</i> }				
9	Low Moor, <i>Bradford</i> }	Hird, Dawson, and Hardy -	8	6	
10	Bierley -				
11	Thorncliffe, <i>Sheffield</i> }				
12	White Horse, <i>Leeds</i> -	Newton, Chambers, and Co. York Road Iron and Coal Co.	2	1‡	
Total of WEST RIDING -			40	29‡	148,636
<b>Total Coal returned as used in the Manufacture of Pig Iron</b>			Tons. <b>443,654</b>		

\* Two for four months, and four for eight months.  
 † Blown in June 9th, 1873.  
 ‡ Five part of the year, but generally three.

### Weardale Bessemer Converters in 1872, pub 1873

IRON MANUFACTURE RETURNS, 1872.				124
LIST OF WORKS having BESSEMER CONVERTERS in GREAT BRITAIN in 1872.				
No.	Name and Situation of Works.	Number of Converters.	Capacity of Converters.	
			Tons.	Cwt.
1	Henry Bessemer and Co., Sheffield - - -	{ 2 2	3 5	—
2	John Brown and Co., <i>Limited</i> , Sheffield -	{ 2 2 2	10 7 6	—
3	Charles Cammell and Co., <i>Limited</i> , Sheffield -	8	5	—
4	Weardale Iron Co., Towlaw - - -	4	2‡	—
5	The Glasgow Bessemer Steel Co., <i>Limited</i> , Atlas Works, Glasgow - - -	{ 2	3	—
6	Samuel Fox and Co., Stockbridge Works, Deepcar -	{ 2 2	5 3	—
7	Lloyds, Foster, and Co., Old Park, Wednesbury -	4	3	—
8	Bolton Iron and Steel Works, Bolton - -	4	6	—
9	London and North Western Railway, Crewe -	2	3	—
10	Lancashire Steel Co., Gorton - - -	{ 2 2	5 6	—
11	Mersey Steel and Iron Works, Liverpool -	4	5	—
12	Manchester Steel and Railway Plant Co., Gibraltar Works, Newton Heath, Manchester - -	{ 4	3	—
13	Barrow Haematite Steel Co., Barrow - -	18	6	—
14	The Dowlais Iron Co., Dowlais - - -	6	5	—
15	Ebbw Vale Co., Ebbw Vale - - -	7	6	—
16	Steel Ordnance Co., Limited, Greenwich - -	2	5	—
17	West Cumberland, Workington - -	4	7	10
18	Phoenix Iron Co., Rotherham - - -	2	3‡	—
19	Carnforth Haematite Iron Co., <i>Limited</i> - -	2	6	—

Durham iron ore record (p.95) in 1872, pub 1873

IRON ORE RETURNS, 1872.

95

No.	District or Mine.	Character of Ore.	Quantities.	Value.
			Tons cwts.	£ s. d.
YORKSHIRE, WEST RIDING.	1 Low Moor* - - -	Argillaceous Carbonate	80,000 0	} 174,864 0 0
	2 Thorncliff - - -	Ditto - - -	15,497 0	
	3 Farnley - - -	Ditto - - -	26,759 0	
	4 Bowling - - -	Ditto - - -	46,651 0	
	5 Sundry Mines* - - -	Ditto - - -	280,000 0	
	6 White Horse - - -	Ditto - - -	17,398 0	
	Total of WEST RIDING - - -		466,305 0	174,864 0 0
	Total of NORTH RIDING - - -		4,974,950 0	1,863,081 0 0
	Total of YORKSHIRE - - -		5,441,255 0	2,037,945 0 0
WEARDALE.				
1	Killhope Quarry - - -	Argillaceous - - -	464 0	} 36,730 0 0
2	Levelgate do. - - -	Ditto - - -	4,837 0	
3	North Grane do. - - -	Ditto - - -	5,941 0	
4	North Grane Mine - - -	Ditto - - -	3,795 11	
5	North Groove Rake Mine - - -	Ditto - - -	7,459 1	
6	South Groove Rake do. - - -	Ditto - - -	8,906 6	
7	North Grane do. - - -	Ditto - - -		
8	Queensbury Quarry - - -	Ditto - - -	12,846 11	
9	Rowantree A Mine - - -	Ditto - - -	4,323 17	
10	Rowantree B Quarry - - -	Ditto - - -	4,763 9	
11	Rowantree B Mine - - -	Ditto - - -	3,826 0	
12	Slitt Pasture Quarry - - -	Ditto - - -	9,220 5	
13	Slitt West Mine - - -	Ditto - - -	20,310 1	
14	Red Vein do. - - -	Ditto - - -	11,260 12	
	Total of DURHAM - - -		97,953 13	36,730 0 0

\* Estimated.

Durham iron ore record (p.96) in 1872, pub 1873

IRON ORE RETURNS, 1872.

96

STATEMENT of IRON ORE conveyed over the NORTH-EASTERN RAILWAY in the Year 1872.

From.	To.	Weight to each District.	Total Weight.
NORTHUMBERLAND, and DISTRICT of NEWCASTLE and CARLISLE RAILWAY.	NEWCASTLE DISTRICT, viz.:		
		Tons. cwts.	Tons. cwts.
	Elswick - - -	21,797 10	21,797 10
	STOCKTON DISTRICT, viz.:		
		Tons. cwts.	
	Newport - - -	2,007 0	23,256 0
	Tees Side - - -	202 0	
	Tees Iron Works - - -	20,947 0	
	South Bank - - -	100 0	
	WHIBBY DISTRICT, viz.:		
		Tons. cwts.	
	Glaisdale - - -	1,042 7	1,042 7
			46,095 17
	NEWCASTLE DISTRICT	NEWCASTLE DISTRICT, viz.:	
		Tons. cwts.	
Benfieldside - - -		43,190 16	60,703 17
Fencehouses - - -		912 9	
Sunderland - - -		310 9	
Hylton - - -		62 6	
Jarrow - - -		2,345 3	
South Dock - - -		1,593 9	
South Shields - - -		6,940 4	
Birtley - - -		22 0	
Elswick - - -		5,214 5	
Gateshead - - -		36 15	
Newcastle - - -		62 4	
Felling - - -		13 17	
		60,703 17	
DARLINGTON DISTRICT, viz.:			
	Tons. cwts.		
Towlaw - - -	2,104 1	82,958 10	
Etherley - - -	35,330 5		
Darlington - - -	1,898 7		
St. Helens - - -	251 10		
Ferryhill - - -	5 16		
Witton - - -	43,174 1		
Bishop Auckland - - -	194 10		
			82,958 10
STOCKTON DISTRICT, viz.:			
	Tons. cwts.		
Stockton - - -	2,441 5	5,133 4	
West Hartlepool - - -	156 14		
Middlesbro' - - -	1,619 17		
Spennymoor - - -	696 19		
Hartlepool - - -	218 9		
Carried forward - - -		46,095 17	

Durham iron ore record (p.97) in 1872, pub 1873

IRON ORE RETURNS, 1872.		97	
From.	To.	Weight to each District.	Total Weight.
	Brought forward -	Tons cwts.	Tons cwts.
			46,095 17
NEWCASTLE DISTRICT— cont.	STOCKTON DISTRICT—cont.		
	Tons cwts.		
	Norton - - 1,044 13		
	North Yorkshire - 151 0		
	Tees Side - 179 0		
	Acklam Refinery 122 0	6,629 17	
	LEEDS DISTRICT, viz.:		
	Tons cwts.		
	Leeds - - 2,526 12	2,526 12	
	WHITBY DISTRICT, viz.:		
	Tons cwts.		
	Glaisdale - 181 14	181 14	
	SUNDRIES, viz.:		
	Tons cwts.		
	Glasgow - - 1,366 17		
	Tipton - - 103 12	1,470 9	
DARLINGTON	DARLINGTON DISTRICT, viz.:		154,470 19
	Tons cwts.		
	Witton - - 68,423 0		
	South Durham - 534 0		
	Tudhoe - - 29,639 0		
	Towlaw - - 2,402 0	100,998 0	
	STOCKTON DISTRICT, viz.:		
	Tons cwts.		
	Linthorpe - - 23,228 0		
	Ayresome - - 41,354 0		
	Slapworth - 20 0		
	Thornaby - - 331 0		
	Newport - - 1,551 0		
	Lackenby - 22 0	66,506 0	
STOCKTON DISTRICT	NEWCASTLE DISTRICT, viz.:		167,504 0
	Tons cwts.		
	Benfieldside - 1,267 17	1,267 17	
	DARLINGTON DISTRICT, viz.:		
	Tons cwts.		
	Darlington - 2,165 5		
	Wolsingham - 20 0		
	Witton - - 38,748 3		
	Towlaw - - 2,788 2		
	Bishop Auckland 11 0		
	Whessoe - 116 0	43,848 10	
	Carried forward -	45,116 7	368,070 16

Durham iron ore record (p.98) in 1872, pub 1873

IRON ORE RETURNS, 1872.		98	
From.	To.	Weight to each District.	Total Weight.
	Brought forward -	Tons cwts.	Tons cwts.
			45,116 7
STOCKTON DISTRICT—cont.	STOCKTON DISTRICT, viz.:		368,070 16
	Tons cwts.		
	Seaham - - 24 4		
	Norton - - 22,222 11		
	Middlesbro' - 70,996 3		
	Stockton - - 2,002 16		
	Tees Side - 681 0		
	Tees Iron Works 440 0		
	Cargo Fleet - 9,072 0		
	Lackenby - - 319 1		
	Cleveland - 6,578 0		
	North Yorkshire 94 0		
	Thornaby - - 10,288 0		
	Newport - - 396 0		
	Middlesbro' Che- mical Co. - 2,221 0		
	South Bank - 1,523 0		
	Imperial Iron Works - - 3,063 0		
	Clay Lane - 814 0		
	Acklam Refinery 85 0		
	Carlton - - 85 0		
	Ayrton - - 177 0		
	Ayresome - - 1,333 0		
	Britannia Iron Works - 314 0		
	West Stockton - 1,850 0		
	Bowesfield - 669 0		
	Stockton Mal. Iron Co. - 510 0		
	Stockton Rail Mal. Co. - 1,088 0		
	East Hartlepool 8 0		
	Moor Iron Works 556 0		
	Westbourne - 144 0		
	Bishop Auckland] 117 0		
	Normanby - - 119 0		
	South Cleveland 900 0	138,689 15	
	WHITBY DISTRICT, viz.:		
	Tons cwts.		
	Glaisdale - - 9,600 12	9,600 12	
	SUNDRIES, viz.:		
	Tons cwts.		
	Glasgow - - 239 11		
	Waterloo - - 17 13		
	Sheffield - 4 0		
	Shawfield Moor - 35 0		
	West March - 88 0	584 4	
	Carried forward -		193,790 18
			561,861 14

Durham iron ore record (p.99) in 1872, pub 1873

IRON ORE RETURNS, 1872.		99	
From.	To.	Weight to each District.	Total Weight.
	Brought forward - -	Tons. cwts.	Tons. cwts., 561,861 14
CLEVELAND DISTRICT, via STOCKTON and DAR- LINGTON RAILWAY.	NEWCASTLE DISTRICT, viz.:		
	Jarrow - -	10,386 16	
	Washington - -	50,199 0	
	Elswick - -	27,450 0	88,035 16
	DARLINGTON DISTRICT, viz.:		
	Darlington - -	2,867 14	
	Witton - -	13,760 18	
	Fighting Cocks - -	6,843 1	
	South Durham - -	28,996 0	
	Tudhoe - -	63,268 0	
	Consett - -	207,219 0	322,954 13
	STOCKTON DISTRICT, viz.:		
	Carlton - -	63,495 15	
	Thornley - -	16,926 0	
	Eston - -	7,992 18	
	Imperial Iron Works - -	814 0	
	Linthorpe - -	225,291 14	
	Norton - -	8,235 18	
	Newport - -	359,881 1	
	Middlesbro' - -	14,060 11	
	Tees Iron Works - -	221,130 0	
	Cargo Fleet - -	191,940 5	
	Thornaby Iron Works - -	77,872 0	
Tees Side - -	139,668 0		
Ayresome - -	134,746 0		
Middleton - -	128,335 0		
South Bank - -	139,675 0		
Stockton - -	137,379 0		
Lackenby - -	132,303 0		
Clarence - -	483,069 0		
Acklam - -	197,290 0		
Ormesby - -	158,890 0		
Normanby - -	134,113 0		
South Cleveland - -	1,694 0		
Cleveland - -	2,995 0		
Clay Lane - -	222 0	2,978,019 2	
WHITBY DISTRICT, viz.:			
Glaisdale - -	1,690 11	1,690 11	
SCANDRIES, viz.:			
Sparwood Mines - -	357 0	357 0	
	Carried forward - -		3,391,057 2
			3,952,918 16

32432.

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Durham iron ore record (p.100) in 1872, pub 1873

IRON ORE RETURNS, 1872.		100		
From.	To.	Weight to each District.	Total Weight.	
	Brought forward - -	Tons. cwts.	Tons. cwts., 3,952,918 16	
CLEVELAND DISTRICT, via NORTH YORKSHIRE and CLEVELAND RAILWAY— cont.	NEWCASTLE DISTRICT, viz.:			
	Jarrow - -	1,317 4	1,317 4	
	DARLINGTON DISTRICT, viz.:			
	Ferryhill - -	303,205 4		
	Fighting Cocks - -	1,840 8	304,545 12	
	STOCKTON DISTRICT, viz.:			
	Norton - -	82,744 12		
	Cargo Fleet - -	7,839 16		
	Seaham - -	809 13		
	Carlton - -	1,575 4	92,969 5	
	WHITBY DISTRICT, viz.:			
	Grosmont - -	3,743 1		
	Glaisdale - -	43,158 11		
	Goathland - -	4,354 10	51,256 2	
		Carried forward - -		450,088 3
	ULVERSTONE ORE - -	NEWCASTLE DISTRICT, viz.:		
		Fencehouses - -	105 10	
		Benfieldside - -	23,050 10	
		Gateshead - -	1,950 11	
		South Dock - -	402 13	
		Felling - -	114 0	
		South Shields - -	242 0	
		Sunderland - -	14 1	
Redheugh - -		287 19	26,167 4	
DARLINGTON DISTRICT, viz.:				
Witton - -		74 0		
Darlington - -		201 0		
South Durham - -		3,088 0		
J. Skeene and Co. - -		1,310 0	4,673 0	
STOCKTON DISTRICT, viz.:				
West Hartlepool - -		7,034 6		
Hartlepool - -		1,443 17		
Stockton - -		4,724 3	13,208 6	
		Carried forward - -		4,408,006 19

Durham iron ore record (p.101) in 1872, pub 1873

IRON ORE RETURNS, 1872.		101	
From.	To.	Weight to each District.	Total Weight.
	Brought forward - -	Tons. cwts.	Tons. cwts. 4,403,006 19
ULVERSTONE ORE—cont.	STOCKTON DISTRICT—cont.		
	Tons. cwts.		
	Norton - - 95 12		
	North Yorkshire - 95 0		
	Thornaby - - 371 0		
	Tees Side - - 1,089 0		
	Cargo Fleet - 6 0		
	Imperial Iron Works - - 212 0		
	Ayrton - - 49 0		
	Bowesfield - 257 0		
		15,376 18	
	HULL DISTRICT, viz.:		
	Tons. cwts.		
	Hull - - 9 0		
	Sculcoates - - 42 0		
		51 0	
	WHITBY DISTRICT, viz.:		
	Tons. cwts.		
	Glaisdale - - 10,919 0		
		10,919 0	
	YORK DISTRICT, viz.:		
	Tons. cwts.		
	York - - 116 8		
		116 8	
WHITEHAVEN ORE - -	NEWCASTLE DISTRICT, viz.:		57,303 10
	Tons. cwts.		
	Benfieldside - 21,334 4		
	Gateshead - - 210 19		
	South Shields - 389 17		
	Jarrow - - 625 2		
	Brompton - 130 0		
	South Dock - 39 0		
	Blaydon - 102 7		
		22,831 9	
	DARLINGTON DISTRICT, viz.:		
	Tons. cwts.		
	Towlaw - - 620 7		
	Witton - - 35,735 0		
	South Durham - 305 0		
		36,660 7	
	STOCKTON DISTRICT, viz.:		
	Tons. cwts.		
	Hartlepool - 3,320 4		
	Norton - - 322 18		
	West Hartlepool - 187 17		
	Thornaby - - 1,146 0		
	Middlesbro' - 2,474 0		
		7,450 19	
		66,942 1	
	Carried forward - -		4,460,310 9 H 2

Durham iron ore record (p.102) in 1872, pub 1873

IRON ORE RETURNS, 1872.		102	
From	To	Weight to each District.	Total Weight.
	Brought forward - -	Tons. cwts.	Tons. cwts. 4,460,310 9
WHITEHAVEN ORE—cont.	WHITBY DISTRICT, viz.:		
	Tons. cwts.		
	Glaisdale - - 30,024 6		
		30,024 6	
SOUTH - - - -	NEWCASTLE DISTRICT, viz.:		96,967 1
	Tons. cwts.		
	Benfieldside - - 514 18		
	Washington - 535 13		
	Jarrow - - 1,403 17		
		2,454 8	
	DARLINGTON DISTRICT, viz.:		
	Tons. cwts.		
	Bishop Auckland 1,247 0		
	Darlington - 8,246 0		
	Richmond - 16 0		
	Whesoe - - 690 0		
	Ferryhill - - 1,037 16		
	Witton - - 11,296 0		
	South Durham - 1,187 0		
	Rise Carr - - 101 0		
		23,820 16	
	STOCKTON DISTRICT, viz.:		
	Tons. cwts.		
	Stockton - - 7,115 12		
	West Hartlepool - 1,797 17		
	Carlton - - 3,785 14		
	Norton - - 3,835 14		
	Port Clarence - 1,972 16		
	Bowesfield - 108 0		
	South Yorkshire - 56 0		
	Tees Side - - 4,761 0		
	Brittania Iron Works - - 26 0		
	Newport - - 6,778 0		
	Linthorpe - - 16,553 0		
	Thornaby - - 1,028 0		
	Acklam - - 1,638 0		
	Cargo Fleet - 1,350 0		
	Thornaby - 246 0		
	Lackenby - 501 0		
	South Bank - 105 0		
	Middleton - 685 0		
	Tees Iron Works 887 0		
	Cleveland - - 5,893 0		
		59,122 13	
	WHITBY DISTRICT, viz.:		
	Tons. cwts.		
	Glaisdale - 776 14		
	Grosmont - 1,101 1		
		1,877 15	
	Carried forward - -		4,557,277 10

Durham iron ore record (p.103) in 1872, pub 1873

IRON ORE RETURNS, 1872.		103	
From	To	Weight to each District.	Total Weight.
	Brought forward -	Tons. cwt.	Tons. cwt.
			4,537,277 10
SOUTH—cont.	HULL DISTRICT, viz.:		
	Sculcoates - Tons. cwt.	647 10	
	SUNDRIES, viz.:		
	Bowling - Tons. cwt.	1,118 7	
SUNDRY PLACES -	NEWCASTLE DISTRICT, viz.:	1,118 7	89,041 9
	Newcastle - Tons. cwt.	1 0	
	Redheugh - Tons. cwt.	20 0	21 0
	DARLINGTON DISTRICT, viz.:		
	Witton - Tons. cwt.	107 0	
	Darlington - Tons. cwt.	324 0	
	South Durham - Tons. cwt.	578 0	
	Conssett - Tons. cwt.	15 0	1,024 0
	STOCKTON DISTRICT, viz.:		
	Ayrsome - Tons. cwt.	734 0	
	Bowesfield - Tons. cwt.	598 0	
	Lackenby - Tons. cwt.	44 0	
	Middleton - Tons. cwt.	196 0	
	North Yorkshire - Tons. cwt.	324 0	
	Tees Side - Tons. cwt.	40 0	
	Middlesbro' - Tons. cwt.	6 0	
	South Bank - Tons. cwt.	1,371 0	
	Clay Lane - Tons. cwt.	298 0	
	Imperial Iron Works - Tons. cwt.	135 0	
	Ayrton - Tons. cwt.	213 0	
	Brittania Iron Works - Tons. cwt.	25 0	3,984 0
	WHITBY DISTRICT, viz.:		
	Glaisdale - Tons. cwt.	204 0	204 0
	SUNDRIES, viz.:		
	Glasgow - Tons. cwt.	100 0	
	West Derwent - Tons. cwt.	47 10	
	Richardson, Jaques, and Co. - Tons. cwt.	10 0	
	West March Iron Works - Tons. cwt.	343 0	500 10
	Total - Tons. cwt.		5,733 10
TOTAL WEIGHT -			4,652,052 9

Weardale Iron Mines at work in 1872, pub 1873

IRON MINES, 1872.		207		
No.	Name of Mine.	Situation.	Name of Proprietor or Company.	Name of Manager or Agent.
32	Red Pike - - -	Whitehaven -	Whitehaven Mining Co.	W. H. Hosking.
33	Startling Dodd - -	Ditto -	Ditto -	W. H. Hosking.
34	Winder - - -	Ditto 2 pits	S. and J. Lindow -	Joseph Monkhouse.
35	Ditto - - -	Ditto 1 "	Cumberland Mining & Smelting Co.	Thos. Massicks.
36	Ditto - - -	Ditto 1 pit -	Maryport Iron Co. -	A. Bell.
37	Woodend - - -	Ditto " mines	} Bain and Patterson -	J. S. Simpson.
38	Ditto - - -	Ditto 3 "		
39	Waterblean - - -	Milom - 1	Jas. Barrett & Son -	W. Salmon.
40	Yeathouse - - -	Whitehaven, 1 pit -	Yeathouse Mining Co.	Geo. Wells.
<b>WESTMORELAND.</b>				
1	Red Tarn - - -	Langdale - - -	T. Massicks and Co., Millon Iron Works.	T. Massicks.
<b>DURHAM AND NORTHUMBERLAND.</b>				
<i>H.M. Inspector, T. F. EVANS, AMLWCH, ANGLESEA.</i>				
1	Killhope - - -	Stanhope - - -	Killhope Iron Co. -	J. R. Crone.
2	North Grove Rake - -	Ditto - - -	Ditto - - -	Ditto.
3	South Grove ditto - -	Ditto - - -	Ditto - - -	Ditto.
4	Level Gate - - -	Ditto - - -	Ditto - - -	Ditto.
5	Queensbury - - -	Ditto - - -	Ditto - - -	Ditto.
6	Slit Pasture - - -	Weardale - - -	Weardale Iron Co. -	W. H. Ware.
7	Rowan Tree, A. - - -	Ditto - - -	Ditto - - -	Ditto.
8	Ditto, B. - - -	Ditto - - -	Ditto - - -	Ditto.
9	West Slitt - - -	Ditto - - -	Ditto - - -	Ditto.
10	North Grane - - -	Ditto - - -	Ditto - - -	Ditto.
11	Rispey - - -	Ditto - - -	Ditto - - -	Ditto.
12	Stanhope Burn or Redvein.	Ditto - - -	Ditto - - -	J. R. Crone.
<b>WALES.</b>				
<b>GLAMORGANSHIRE.</b>				
<i>H.M. Inspector, T. E. WALES, SWANSEA.</i>				
1	Bute Haematite - - -	Llantrissant - - -	Fothergill Rowland -	Daniel Evans.
2	Mwynny - - -	Ditto - - -	Mwynny Iron Ore Co. (Limited).	William Vician.
3	Tenby - - -	Tenby - - -	Kilgetty Company.	—
4	Llwyn Saer - - -	Llantrissant - - -	—	—
<b>NORTH WALES. -</b>				
<i>H.M. Inspector, T. F. EVANS, AMLWCH, ANGLESEA.</i>				
1	Cwm Mountain - - -	Rhyl - - -	Flinshire Haematite Co.	Isaiah Johnston.
2	Foelchime - - -	Ditto - - -	Barnes and Anderson -	Geo. Hy. Harrison.
3	Henfryn - - -	Ditto - - -	—	—
<b>ISLE OF MAN.</b>				
<i>H.M. Inspector, T. F. EVANS, AMLWCH, ANGLESEA.</i>				
1	Ballajora - - -	Douglas - - -	The Crown - - -	—
2	Manghold Head - - -	Ditto - - -	Ditto - - -	—
3	Manghold Derrane - -	North-east coast -	Rowe & Beckwith -	R. Rowe.

Mineral Statistics for 1873, pub 1874  
 from <http://pubs.bgs.ac.uk/publications.html?pubID=B02470>

**MEMOIRS**  
 OF THE  
 GEOLOGICAL SURVEY OF GREAT BRITAIN  
 AND OF THE  
 MUSEUM OF PRACTICAL GEOLOGY.

**MINERAL STATISTICS**

OF THE  
 UNITED KINGDOM OF GREAT BRITAIN  
 AND IRELAND,  
 FOR THE YEAR 1873.

WITH AN APPENDIX.

BY ROBERT HUNT, F.R.S.,  
 KEEPER OF MINING RECORDS.

PUBLISHED BY ORDER OF THE LORDS COMMISSIONERS OF  
 HER MAJESTY'S TREASURY.

LONDON:  
 PRINTED FOR HER MAJESTY'S STATIONERY OFFICE:  
 PUBLISHED BY  
 LONGMANS, GREEN, & CO.;  
 AND BY  
 EDWARD STANFORD, 6, CHARING CROSS, S.W.

1874.

[Price 2s.]

34786.

**Weardale blast furnaces in 1873, pub 1874**

IRON MANUFACTURE RETURNS, 1873.

97

DETAILS of BLAST FURNACES in Blast, and of the MAKE of PIG IRON  
 in the Year 1873.

**ENGLAND.**

No.	Name of Works.	Owners.	Furnaces built.	Furnaces in blast.	Pig Iron made. Tons.
<b>NORTHUMBERLAND :</b>					
1	Elswick, <i>Newcastle-on-Tyne.</i>	Sir W. G. Armstrong & Co.	2	2	
2	Hareshaw - -	Hareshaw Iron Company -	2	—	
3	Lemington-on-Tyne -	Bulmer and Co. - -	2	—	
4	Walker, <i>Newcastle-on-Tyne.</i>	Bell Brothers - -	3	2	
5	Wylam - -	Bell Brothers - -	1	—	
Total of NORTHUMBERLAND			10	4	44,807
<b>Coal returned as used in the</b>			Tons.		
<b>Manufacture of Pig Iron -</b>			<b>68,347</b>		
<b>Coal estimated - - -</b>			<b>33,000</b>		
<b>Total - - -</b>			<b>101,347</b>		
<b>DURHAM :</b>					
1	Acklam, <i>Middlesbro'</i> -	Stevenson, Jaques, & Co. -	4	4	
2	Clarence, <i>Middlesbro'-on-Tees.</i>	Bell Brothers - -	8	8	
3	Consett, <i>Durham</i> -	Consett Iron Co. ( <i>Limited</i> ) -	6	5 $\frac{3}{4}$	
4	Ferry Hill - -	Rosedale and Ferry Hill Iron Company.	8	8	
5	Jarrow - -	Palmer's Shipbuilding and Iron Company.	4	4	
6	Middleton, <i>Darlington</i>	George, Wythes, and Co. -	3	3	
7	Norton, <i>Stockton-on-Tees.</i>	Norton Iron Co., <i>Limited</i> -	3	3	
8	Norwegian - -	Titanic Iron Co., <i>Limited</i> -	2	1	
9	Seaham - -	Watson, Kipling, & Co. -	1	1	
10	South Durham, <i>Darlington.</i>	South Durham Iron Company	3	3	
11	Thornaby, <i>Stockton</i> -	William Whitwell & Co. -	5	3	
12	Towlaw - -	Weardale Iron and Coal Company ( <i>Limited</i> ).	4	3*	
13	Tudhoe - -	Weardale Iron Co. - -	2	2	
14	Wear, <i>Washington</i> -	Bell Brothers - -	1	1	
Total of DURHAM - -			54	49 $\frac{3}{4}$	799,573
			Tons.		
<b>Coal returned as used in the</b>			Tons.		
<b>Manufacture of Pig Iron -</b>			<b>1,328,100</b>		

\* Two in blast to June, one from November

34786.

G

### Weardale blast furnaces in 1873, pub 1874, ctd.

98

IRON MANUFACTURE RETURNS, 1873.

No.	Name of Works.	Owners.	Furnaces built.	Furnaces in blast.	Pig Iron made.
YORKSHIRE :					
NORTH RIDING :					
1	Ayresome, <i>Middlesbro'-on-Tees.</i>	Gjers, Mills, and Co. -	4	4	
2	Cargo Fleet, do. -	Swan, Coates, and Company	4	4	
3	Carlton, <i>Stockton-on-Tees.</i>	North of England Industrial Iron and Coal Co. ( <i>Lim.</i> )	3	3	
4	Clay Lane, <i>Eston Junction.</i>	Thomas Vaughan and Co. -	6	6	
5	Coatham, <i>Middlesbro'</i>	Downey and Co. -	2	2*	
6	Middlesbro' -	Bolckow, Vaughan, and } Company ( <i>Limited</i> ). }	15	15	
7	Cleveland -				
8	Witton Park -				
9	Glaisdale, <i>Yarm</i> -	South Cleveland Iron Works Co. ( <i>Limited</i> ).	3	3	
10	Grosmont, <i>Whitby</i> -	Chas. and Thos. Bagnall, jr.	2	2	
11	Lackenby, <i>Middlesbro'</i>	Lackenby Iron Company -	3	3†	
12	Linthorpe, do. -	Lloyd & Co. -	6	6	
13	Newport, do. -	B. Samuelson and Company	8	8‡	
14	Normauby, do. -	Jones, Dunning, and Co. -	3	3	
15	Ormesby, do. -	Cochrane and Co. -	4	2	
16	South Bank, do. -	Thomas Vaughan and Co. -	6	6	
17	Tees, do. -	Gilkes, Wilson, Pease, & Co.	5	5	
18	Tees Side, do. -	Hopkins, Gilkes, & Co. ( <i>Lim.</i> )	4	4	
Total of NORTH RIDING -			78	76	1,156,481
Coal returned as used in the } Tons. Manufacture of Pig Iron - } <b>2,536,837</b>					
Coal estimated - - - } <b>107,160</b>					
Total - - - } <b>2,643,997</b>					
YORKSHIRE :					
WEST RIDING :					
1	West Yorkshire, <i>Ardley.</i>	West Yorkshire Iron and Coal Company ( <i>Limited</i> ).	5	4	
2	Beeston Manor, do. -	A. Harding and Co. -	2	1	
3	Bowling, <i>Bradford</i> -	Bowling Iron Co. ( <i>Lim.</i> ) -	6	4	
4	Elsecar } <i>Barnsley</i> -	W. H. and Geo. Dawes -	6	4	
5	Milton -				
6	Farnley, <i>Leeds</i> -	Farnley Iron Co. ( <i>Lim.</i> ) -	4	2	
7	Holmes -	Parkgate Iron Company ( <i>Limited</i> ) -	5	5	
8	Parkgate, <i>Rotherham</i> }				
9	Low Moor, <i>Bradford</i> }	Hird, Dawson, and Hardy -	8	6	
10	Bierley -				
11	Thorncliffe, <i>Sheffield</i> -	Newton, Chambers, and Co.	2§	2	
12	York Road, <i>Leeds</i> -	York Road Iron and Coal Co.	2	2	
Total of WEST RIDING -			40	30	151,511
Coal returned as used in the } Tons. Manufacture of Pig Iron - } <b>351,490</b>					
Coal estimated - - - } <b>142,486</b>					
Total - - - } <b>493,976</b>					

\* Two furnaces from June 10th.

† One furnace for two months.

‡ Eight for seven months, and seven for five months.

§ One in course of construction.

|| Two for three months, and one for nine months.

### Weardale Bessemer Converters in 1873, pub 1874

IRON MANUFACTURE RETURNS, 1873.

115

#### LIST OF WORKS HAVING BESSEMER CONVERTERS IN GREAT BRITAIN IN 1873.

No.	Name and Situation of Works.	Number of Converters.	Capacity of Converters.
			Tons. Cwt.
1	Henry Bessemer and Co., Sheffield -	2	3
		2	5
2	Bolchow, Vaughan, and Co., <i>Limited</i> - -	4	6 10
3	John Brown and Co., <i>Limited</i> , Sheffield -	2	10
		2	7
		2	6
4	Charles Cammell and Co., <i>Limited</i> , Sheffield, <i>Cylops</i>	4	4
5	" " <i>Yorkshire</i> -	2	5
		2	7
5	Weardale Iron Co., Tudhoe, Ferryhill - -	4	2 10
6	The Glasgow Bessemer Steel Co., <i>Limited</i> , Atlas Works, Glasgow - - -	2	3
7	Samuel Fox and Co., Stockbridge Works, Deepcar -	2	5
		2	3
8	Lloyds, Foster, and Co., Old Park, Wednesbury	4	3 0
9	Bolton Iron and Steel Works, Bolton - -	4	6
10	London and North Western Railway, Crewe -	2	3
11	Lancashire Steel Works, Gorton - -	4	6 10
12	Mersey Steel and Iron Works, Liverpool -	10	5
13	Manchester Steel and Railway Plant Co., Gibraltar Works, Newton Heath, Manchester - -	4	3
14	Barrow Haematite Steel Co., Barrow - -	18	6 0
15	The Dowlais Iron Co., Dowlais - -	6	5
16	Ebbw Vale Co., Ebbw Vale - - - -	7	6
17	Steel Ordnance Co., Limited, Greenwich - -	2	5
18	West Cumberland Iron and Steel Co., Workington	4	7
19	Phoenix Iron Co., Rotherham - - -	2	3½
20	Carnforth Haematite Iron Co., <i>Limited</i> - -	2	6* 0
21	Patent Shaft and Axletree Co., Wednesbury -	4	3

\* Not at work.

H 2

Durham iron ore record (p.89) in 1873, pub 1874

IRON ORE RETURNS, 1873.

89

No.	District or Mine.	Character of Ore.	Quantities.	Value.
			Tons cwts.	£ s. d.
FORKSHIRE, WEST RIDING.	1 Beeston - - -	Black Band - -	6,885 0	2,065 0 0
	2 Low Moor (estimated) -	Argillaceous Carbonate	73,959 0	22,187 14 0
	3 Thorncliffe - - -	Ditto - -	40,000 0	12,000 0 0
	4 Farnley - - -	Ditto - -	25,144 0	7,543 14 0
	5 Bowling - - -	Ditto - -	45,000 0	13,500 0 0
	6 White Horse - - -	Ditto - -	16,400 0	4,920 0 0
	7 Sundry Mines (estimated) -	Ditto - -	200,000 0	60,000 0 0
	Total of WEST RIDING - -		407,388 0	122,216 8 0
	Total of NORTH RIDING -		5,342,641 9	1,605,787 5 0
	Total of YORKSHIRE - -		5,750,029 9	1,728,003 13 0
DURHAM.	WEARDALE.			
	1 Red Vein Mine - - -	Argillaceous - -	10,409 17	3,122 19 0
	2 North Groove Rake Mine -	Ditto - -	5,334 16	1,600 8 0
	3 South Groove Rake do. -	Ditto - -	5,301 3	1,590 6 0
	4 North Grane do. -	Ditto - -	8,598 4	2,579 8 0
	5 Slitt West do. -	Ditto - -	18,138 4	5,441 8 0
	6 Rowantree A do. -	Ditto - -	5,275 18	1,582 10 0
	7 Rowantree B do. -	Ditto - -	1,605 9	481 10 0
	8 Rowantree B Quarry - -	Ditto - -	7,650 19	2,295 6 0
	9 Slitt Pasture do. - -	Ditto - -	10,238 7	3,068 8 0
	10 Levelgate do. - -	Ditto - -	6,610 10	1,983 0 0
	11 Queensbury do. -	Ditto - -	17,337 14	5,201 2 0
	12 Killhope do. - -	Ditto - -	598 11	179 0 0
	13 North Grane do. - -	Ditto - -	2,293 17	688 4 0
	Total of WEARDALE - -		99,393 9	29,813 9 0
NORTHUMBERLAND.	1 Ridsdale (Bellingham) -	Argillaceous - -	13,889 0	4,166 14 0
	2 Sliddle Moor - - -	Ditto - -	10,000 0	3,000 0 0
	Total of DURHAM and NORTHUMBERLAND Returns - -		123,282 9	36,980 3 0

Durham iron ore record (p.90) in 1873, pub 1874

IRON ORE RETURNS, 1873.

90

RAILWAY DISTRIBUTION.

STATEMENT of IRON ORE conveyed over the NORTH-EASTERN RAILWAY in the Year 1873.

From.	To.	Weight to each District.	Total Weight.
		Tons cwts.	Tons cwts.
NORTHUMBERLAND, and DISTRICT of NEWCASTLE and CARLISLE RAILWAY.	Newcastle district - - -	14,165 13	17,382 14
	Stockton " - - -	119 15	
	Darlington " - - -	3,097 6	
NEWCASTLE DISTRICT -	Newcastle district - - -	10,114 1	16,918 18
	Darlington " - - -	6,073 0	
	Stockton " - - -	673 5	
	Leeds " - - -	58 12	
DARLINGTON DISTRICT -	Darlington district - - -	99,617 0	99,633 0
	Stockton " - - -	16 0	
STOCKTON DISTRICT -	Darlington district - - -	22,418 15	161,489 9
	Stockton " - - -	135,599 16	
	Whitby " - - -	3,470 18	
CLEVELAND DISTRICT, via NORTH YORKSHIRE, and CLEVELAND RAILWAY.	Newcastle district - - -	12,684 7	508,502 0
	Darlington " - - -	286,296 4	
	Stockton " - - -	158,309 8	
	Whitby " - - -	51,212 1	
CLEVELAND DISTRICT, via STOCKTON and DARLINGTON RAILWAY.	Newcastle district - - -	80,212 0	3,677,931 0
	Darlington " - - -	364,654 0	
	Stockton " - - -	3,232,108 0	
	Whitby " - - -	957 0	
ULVERSTONE - -	Newcastle district - - -	7,386 7	39,640 0
	Darlington " - - -	1,960 0	
	Stockton " - - -	14,289 9	
	York " - - -	80 8	
	Whitby " - - -	15,923 16	
WHITEHAVEN - -	Newcastle district - - -	5,918 3	53,184 13
	Darlington " - - -	9,637 0	
	Stockton " - - -	8,931 1	
	Whitby " - - -	28,698 9	
	Carried forward - -		4,574,681 14

**Durham iron ore record (p.91) in 1873, pub 1874**

IRON ORE RETURNS, 1873.

91

From.	To.	Weight to each District.	Total Weight.
		Tons. cwt.	Tons. cwt.
	Brought forward - -		4,574,681 14
<b>SOUTH</b> - - -	Hull district - - -	1,848 9	
	Newcastle district - - -	28,299 6	
	Darlington " - - -	14,072 11	
	Stockton " - - -	152,619 18	
	Whitby " - - -	282 3	
	Sundry places - - -	822 3	197,944 10
<b>SUNDRY PLACES</b> - - -	Newcastle district - - -	4,393 11	
	Darlington " - - -	3,110 8	
	Stockton " - - -	9,032 11	
	Whitby " - - -	53 0	16,589 10
<b>IMPORTED</b> - - -	Newcastle district - - -	87,935 10	
	Darlington " - - -	6,239 5	
	Stockton " - - -	40,993 12	
	Leeds " - - -	1,585 19	
	Whitby " - - -	1,763 12	
	Sundry places - - -	722 5	139,240 3
	<b>Total</b> - - -		4,928,455 17

**Weardale Iron Mines at work in 1873, pub 1874**

IRON MINES, 1873.

920

No.	Name of Mine.	Situation.	Name of Proprietor or Company.	Name of Manager or Agent.
30	Rob Roy - - -	Leyburnthwaite -	Rob Roy Mining Co. -	John Hall.
31	Red Pike - - -	Whitehaven - - -	Whitehaven Mining Co. -	W. H. Hosking.
32	Salter and Eskett Park	Ditto 7 pits	Salter and Eskett Park Co.	—
33	Scarlelands - - -	Ditto 1 " "	Scarlelands Co.	—
34	Starding Dodd - - -	Ditto - - -	Whitehaven Mining Co.	W. H. Hosking.
35	Steel End - - -	Ditto - - -	Steel End Mining Co.	John Hall.
36	Winder - - -	Ditto 2 pits	S. and J. Lindow -	Joseph Monkhouse.
37	Ditto - - -	Ditto 1 " "	Cumberland Iron Min. & Smelting Co.	Thos. Massicks.
38	Winder Gill - - -	Ditto 1 pit -	Maryport Iron Co. -	Allan Gilmour.
39	Woodend - - -	Ditto - - -	James Bain and Co. -	J. S. Simpson.
40	Waterblear - - -	Milom - 1 -	Jas. Barrett & Son -	W. Salmon.
41	Yeathouse - - -	Whitehaven, 1 pit -	Yeathouse Mining Co.	Geo. Wells.

**WESTMORELAND.**

1	Fairfield - - -	Grasmere - - -	Lake District Mining Co.	John Hall.
2	Grasmere - - -	Ambleside - - -	The Grasmere Hematite Iron Co.	—
3	Providence - - -	Ditto - - -	P. Iron Co. (Lim.) -	John Muse.
4	Red Tarn - - -	Langdale - - -	T. Massicks and Co., Millom Iron Works.	T. Massicks.

**DURHAM AND NORTHUMBERLAND.**

H.M. Inspector, T. F. EVANS, AMLWCH, ANGLESEA.

1	Killhope - - -	Weardale - - -	Weardale Iron Co. -	J. R. Crone.
2	North Groove Rake -	Ditto - - -	Ditto - - -	Ditto.
3	South Groove ditto -	Ditto - - -	Ditto - - -	Ditto.
4	Levelgate - - -	Ditto - - -	Ditto - - -	Ditto.
5	Queensbury - - -	Ditto - - -	Ditto - - -	Ditto.
6	Slit Pasture - - -	Ditto - - -	Ditto - - -	Ditto.
7	Rowan Tree, A. - - -	Ditto - - -	Ditto - - -	Ditto.
8	Ditto, B. - - -	Ditto - - -	Ditto - - -	Ditto.
9	West Slitt - - -	Ditto - - -	Ditto - - -	Ditto.
10	North Grane - - -	Ditto - - -	Ditto - - -	Ditto.
11	Stanhope Burn or Redvein.	Ditto - - -	Ditto - - -	Ditto.

**WALES.**

**GLAMORGANSHIRE.**

H.M. Inspector, T. E. WALES, SWANSEA.

1	Bute Hematite - - -	Llantrissant - - -	Fothergill Rowland -	Daniel Evans.
2	Mwyndy - - -	Ditto - - -	Mwyndy Iron Ore Co. (Limited).	William Vivian.
3	Tenby - - -	Tenby - - -	Kilgetty Company.	—
4	Lhwyn Saer - - -	Llantrissant.	—	—

**NORTH WALES.**

H.M. Inspector, T. F. EVANS, AMLWCH, ANGLESEA.

1	Cwm Mountain - - -	Cwm, near Rhyl -	Flintshire Hematite Co. Limited.	T. Humphreys. Ed. Thomas, Sec.
2	Foelchine - - -	Rhyl - - -	Ditto.	—
3	Henfryn - - -	Ditto - - -	Barnes and Anderson Newmarket, Capt. G. Lee, Sec.	Geo. Hy. Harrison.

**ISLE OF MAN.**

H.M. Inspector, T. F. EVANS, AMLWCH, ANGLESEA.

1	Ballaora - - -	Douglas - - -	The Crown.	—
2	Manghold Head - - -	Ditto - - -	Ditto.	—
3	Manghold Dernane -	North-east coast -	Rowe & Beckwith -	R. Rowe.

34786.

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Mineral Statistics for 1874, pub 1875  
 from <http://pubs.bgs.ac.uk/publications.html?pubID=B02471>

**MEMOIRS**  
 OF THE  
 GEOLOGICAL SURVEY OF GREAT BRITAIN  
 AND OF THE  
 MUSEUM OF PRACTICAL GEOLOGY.

**MINERAL STATISTICS**

OF THE  
 UNITED KINGDOM OF GREAT BRITAIN  
 AND IRELAND,

**FOR THE YEAR 1874.**

WITH AN APPENDIX.

BY ROBERT HUNT, F.R.S.,  
 KEEPER OF MINING RECORDS.

PUBLISHED BY ORDER OF THE LORDS COMMISSIONERS OF  
 HER MAJESTY'S TREASURY.

LONDON:  
 PRINTED FOR HER MAJESTY'S STATIONERY OFFICE:  
 PUBLISHED BY  
 LONGMANS, GREEN, & CO.;  
 AND BY  
 EDWARD STANFORD, 6, CHARING CROSS, S.W.

1875.

[Price 2s.]

36927.

**Weardale blast furnaces in 1874, pub 1875**

96 IRON MANUFACTURE RETURNS, 1874.

DETAILS of BLAST FURNACES in Blast, and of the MAKE of PIG IRON  
 in the Year 1874.

**ENGLAND.**

No.	Name of Works.	Owners.	Furnaces built.	Furnaces in blast.	Pig Iron made. Tons.
<b>NORTHUMBERLAND:</b>					
1	Elswick, <i>Newcastle-on-Tyne.</i>	Sir W. G. Armstrong & Co.	2	1*	
2	Hareshaw - -	Hareshaw Iron Company -	—	—	
3	Lemington-on-Tyne -	Bulmer and Co. -	—	—	
4	Walker, <i>Newcastle-on-Tyne.</i>	Bell Brothers ( <i>Limited</i> ) -	2	1	
5	Wylam -	Bell Brothers - -	1	—	
Total of NORTHUMBERLAND			5	2	33,142
			Tons.		
Coal returned as used in the } Manufacture of Pig Iron - }			74,681		
<b>DURHAM:</b>					
1	Clarence, <i>Middlesbro'-on-Tees.</i>	Bell Brothers ( <i>Limited</i> ) -	10	10†	
2	Consett, <i>Durham</i> -	Consett Iron Co. ( <i>Limited</i> ) -	6	6	
3	Ferry Hill - -	Rosedale and Ferry Hill Iron Company.	7	8	
4	Jarrow - -	Palmer's Shipbuilding and Iron Company.	4	4	
5	Middleton, <i>Darlington</i>	George Wythes and Co. -	4	4‡	
6	Norton, <i>Stockton-on-Tees.</i>	Norton Iron Co. ( <i>Limited</i> )	3	3	
7	Norwegian - -	Titanic Iron Co. ( <i>Limited</i> ) -	2	1§	
8	Vane and Seaham -	Watson, Kipling, & Co. -	1	1	
9	South Durham, <i>Darlington.</i>	South Durham Iron Company	3	3	
10	Thornaby, <i>Stockton</i> -	William Whitwell & Co. -	5	2	
11	Towlaw - -	Weardale Iron and Coal Company ( <i>Limited</i> ).	4	1	
12	Tudhoe, <i>Spennymoor</i>	Weardale Iron Co. -	2	2	
13	Wear, <i>Washington</i> -	Bell Brothers ( <i>Limited</i> ) -	1	1	
14	West Hartlepool -	West Hartlepool Iron Co. ( <i>Limited</i> ).	3	3	
Total of DURHAM - -			55	49	829,235
			Tons.		
Coal returned as used in the } Manufacture of Pig Iron - }			1,068,880		
Coal estimated - - -			904,207		
Total - - -			1,973,087		

\* In blast for nine months.

† Eight to October, two subsequently.

‡ Three for nine months, and four for three months.

§ In blast only a portion of the year.

### Weardale blast furnaces in 1874, pub 1875, ctd.

IRON MANUFACTURE RETURNS, 1874. 97

No.	Name of Works.	Owners.	Furnaces built.	Furnaces in blast.	Pig Iron made. Tons.
<b>YORKSHIRE:</b>					
<b>NORTH RIDING:</b>					
1	Acklam -	Stevenson, Jaques, & Co. -	4	4	
2	Ayresome, <i>Middlesbro'-on-Tees.</i>	Gjers, Mills, and Co. -	4	4	
3	Cargo Fleet, do. -	Swan, Coates, and Company	5	4	
4	Carlton, <i>Stockton-on-Tees.</i>	North of England Industrial Iron and Coal Co. ( <i>Lim.</i> )	3	3	
5	Clay Lane, <i>Eston Junction</i>	Thomas Vaughan and Co. -	6	6	
6	Coatham, <i>Middlesbro'</i>	Downey and Co. -	2	2	
7	Middlesbro' -	Bolkow, Vaughan, and } Company ( <i>Limited</i> ). }	15	14	
8	Cleveland -				
9	Witton Park -				
10	Glaidsdale, <i>Yarm</i>	South Cleveland Iron Works Co. ( <i>Limited</i> ).	3	2	
11	Grosmont, <i>Whitby</i>	Chas. and Thos. Bagnall, jr.	2	2	
12	Lackenby, <i>Middlesbro'</i>	Lackenby Iron Company -	3	3	
13	Linthorpe, do. -	Lloyd & Co. -	6	6*	
14	Loftus -	Loftus Iron Co. -	2	2	
15	Newport, <i>Middlesbro'</i>	B. Samuelson and Company	8	7†	
16	Normanby, do. -	Jones, Dunning, and Co. -	3	3	
17	North Shore, <i>Stockton</i>	Stockton Iron Furnace Co. ( <i>Limited</i> ).	3	3	
18	Ormesby, <i>Middlesbro'</i>	Cochrane and Co. -	4	3	
19	Redcar -	Robson, Maynard, & Co. -	2	2	
20	South Bank, <i>Middlesbro'</i>	Thomas Vaughan and Co. -	8	2	
21	Stockton -	Stockton Iron Co. ( <i>Limited</i> )	3	2	
22	Tees, <i>Middlesbro'</i>	Gilkes, Wilson, Pease, & Co.	5	5‡	
23	Tees Side, do. -	Hopkins, Gilkes, & Co. ( <i>Lim.</i> )	4	4	
24	Tees Bridge -	Tees Bridge Co. ( <i>Limited</i> ) -	2	2	
Total of NORTH RIDING -			97	85	1,158,471
			Tons.		
Coal returned as used in the } Manufacture of Pig Iron -			1,510,836		
Coal estimated -			1,385,341		
<b>Total -</b>			<b>2,896,177</b>		
<b>YORKSHIRE:</b>					
<b>WEST RIDING:</b>					
1	West Yorkshire, <i>Ardley.</i>	West Yorkshire Iron and Coal Company ( <i>Limited</i> ).	5	4	
2	Beeston Manor, do. -	A. Harding and Co. -	2	1	
3	Bowling, <i>Bradford</i>	Bowling Iron Co. ( <i>Lim.</i> ) -	6	4	
4	Elsecar } Milton } <i>Barnsley</i>	W. H. and Geo. Dawes -	6	5§	
5	Farnley, <i>Leeds</i>				
6	Holmes -	Farnley Iron Co. ( <i>Lim.</i> ) -	4	2	
7	Parkgate, <i>Rotherham</i>	Parkgate Iron Company ( <i>Limited</i> )	6	4	
8	Low Moor, <i>Bradford</i>	Hird, Dawson, and Hardy -	8	6	
9	Bierley -				
10	Thorncliffe, <i>Sheffield</i>	Newton, Chambers, and Co.	2	2	
11	York Road, <i>Leeds</i>	York Road Iron and Coal Co.	2	1¶	
12	Aireside, do. -	Aireside Haematite Iron Co.	3	2	
Total of WEST RIDING -			44	31	163,856
			Tons.		
Coal returned as used in the } Manufacture of Pig Iron -			549,363		

\* Two furnaces of these have been out of blast 90 and 188 days respectively.

† Five only from May 22nd.

‡ Four only for six months.

§ Four only the greater part of the year.

|| One for nine months, two for three months.

¶ In blast for 43 weeks only.

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### Weardale Bessemer Converters in 1874, pub 1875

114 IRON MANUFACTURE RETURNS, 1874.

#### LIST OF WORKS HAVING BESSEMER CONVERTERS IN GREAT BRITAIN IN 1874.

No.	Name and Situation of Works.	Number of Converters.	Capacity of Converters. Tons. Cwt.
1	Henry Bessemer and Co., Sheffield -	{ 2	3 --
		{ 2	5 --
2	Bolchaw, Vaughan, and Co., <i>Limited</i> -	4	6 10
3	John Brown and Co., <i>Limited</i> , Sheffield -	{ 2	10 --
		{ 2	7 --
		{ 2	6 --
4	Charles Cammell and Co., <i>Limited</i> , Sheffield, <i>Cylops</i>	4	4 --
5	" " <i>Yorkshire</i> -	{ 2	5 --
		{ 2	7 --
6	Weardale Iron Co., Tudhoe, Ferryhill -	4	2 10
7	The Glasgow Bessemer Steel Co., <i>Limited</i> , Atlas Works, Glasgow -	2	3 --
8	Samuel Fox and Co., Stockbridge Works, Deepcar -	{ 2	5 --
		{ 2	3 --
9	Lloyds, Foster, and Co., Old Park, Wednesbury	4	3 --
10	Bolton Iron and Steel Works, Bolton -	4	6 --
11	London and North Western Railway, Crewe -	2	3 --
12	Lancashire Steel Works, Gorton -	4	6 --
13	Mersey Steel and Iron Works, Liverpool -	10	5 --
14	Manchester Steel and Railway Plant Co., Gibraltar Works, Newton Heath, Manchester -	4	3 --
15	Barrow Haematite Steel Co., Barrow -	18	6 --
16	The Dowlais Iron Co., Dowlais -	6	5 --
17	Ebbw Vale Co., Ebbw Vale -	7	6 --
18	Steel Ordnance Co., <i>Limited</i> , Greenwich -	2	5 --
19	West Cumberland Iron and Steel Co., Workington	4	7 --
20	Phoenix Iron Co., Rotherham -	2	3 10
21	Carnforth Haematite Iron Co., <i>Limited</i> -	2	-- --
22	Patent Shaft and Axletree Co., Wednesbury -	4	3 --

Durham iron ore record (p.87) in 1874, pub 1875

IRON ORE RETURNS, 1874.

87

No.	District or Mine.	Character of Ore.	Quantities.	Value.
			Tons. cwts.	£ s. d.
YORKSHIRE, WEST RIDING.	1 Beeston - - -	Black Band - -	5,056 5	3,033 0 0
2 Beeston Colliery - -	Ditto - - -		14,512 0	8,707 4 0
3 Bowling - - -	Argillaceous Carbonate		45,000 0	13,500 0 0
4 Elsecar - - -	Ditto - - -		28,284 0	16,970 0 0
5 Farnley - - -	Ditto - - -		17,000 0	10,200 0 0
6 Gannister - - -	Black Band - -		3,045 0	1,827 0 0
7 Killinbeck - - -	Ditto - - -		6,599 0	3,959 0 0
8 Low Moor - - -	Argillaceous Carbonate		67,150 0	40,290 0 0
9 Spring Gardens - -	Black Band - -		3,447 2	2,068 0 0
10 Stockbridge - - -	Ditto - - -		527 0	316 0 0
11 Thorncliff - - -	Argillaceous Carbonate		18,376 0	11,025 12 0
12 Wharnciff - - -	Black Band - -		7,510 0	4,506 0
13 White Horse - - -	Argillaceous Carbonate		2,954 0	1,772 8 0
14 Wortley - - -	Black Band - -		1,500 0	900 0 0
15 Sundry Mines (estimated) -	Argillaceous Carbonate		150,000 0	35,000 0 0
	Total of WEST RIDING - -		370,960 7	154,074 4 0
	Total of NORTH RIDING - -		5,614,322 11	1,694,918 13 0
	Total of YORKSHIRE - -		5,985,282 18	1,848,992 17 0
	WEARDALE.			
DURHAM AND NORTHUMBERLAND.	1 Red Vein - - -	Spathose Carbonate and Silicious Hæmatite.	8,741 1	
2 Groove Rake - - -	Ditto - - -		4,208 12	
3 South Groove Rake - -	Ditto - - -		3,339 0	
4 North Grane - - -	Ditto - - -		8,965 0	
5 West Slitt - - -	Ditto - - -		15,517 18	
6 Rowantree A. - - -	Ditto - - -		5,015 17	
7 Do. B. - - -	Ditto - - -		1,172 1	
8 Do. B. Quarry - - -	Ditto - - -		7,349 7	
9 Levelgate - - -	Ditto - - -		360 0	
10 Levelgate Quarry - -	Ditto - - -		5,663 16	
11 Slitt Pasture do. - -	Ditto - - -		7,537 17	
12 Queensbury do. - -	Ditto - - -		17,620 18	
	Total of WEARDALE - -		85,491 7	51,388 11 0
13 Brancepeth - - -	Argillaceous Carbonate			
14 Brandon - - -	Ditto - - -			
15 Oakenshaw - - -	Ditto - - -		11,122 0	6,673 4 0
16 Wellington - - -	Ditto - - -			
17 Ridsdale (Bellingham) -	Ditto - - -			
18 Seaham - - -	Ditto - - -		11,543 0	6,925 16 0
19 Stiddle Moor - - -	Ditto - - -		11,843 10	7,055 16 0
20 West Hartley - - -	Ditto - - -		2,481 0	1,488 12 0
	Total of DURHAM and NORTHUMBERLAND Returns - - -		122,480 17	73,531 19 0

Durham iron ore record (p.88) in 1874, pub 1875

IRON ORE RETURNS, 1874.

88

RAILWAY DISTRIBUTION.

STATEMENT of IRON ORE conveyed over the NORTH-EASTERN RAILWAY in the Year 1874.

From.	To.	Weight to each District.	Total Weight.
		Tons. cwts.	Tons. cwts.
NORTHUMBERLAND, and DISTRICT of NEWCASTLE and CARLISLE RAILWAY.	Newcastle district - - -	11,849 15	
	Darlington " - - -	3,336 14	15,186 9
NEWCASTLE DISTRICT -	Darlington district - - -	6,377 4	
	Stockton " - - -	21 4	6,398 8
DARLINGTON DISTRICT -	Darlington district - - -	66,596 10	
	Stockton " - - -	1,254 12	67,851 2
STOCKTON DISTRICT -	Darlington district - - -	13,262 16	
	Stockton " - - -	92,569 11	105,832 7
CLEVELAND DISTRICT, viâ NORTH YORKSHIRE and CLEVELAND RAILWAY.	Newcastle district - - -	15,748 6	
	Darlington " - - -	247,425 10	
	Stockton " - - -	180,001 7	
	Whitby " - - -	36,733 8	479,908 11
CLEVELAND DISTRICT, viâ STOCKTON and DARLINGTON RAILWAY.	Newcastle district - - -	50,398 8	
	Darlington " - - -	517,027 4	
	Stockton " - - -	3,215,897 16	
	Hull " - - -	28 10	3,783,351 18
ULVERSTONE - - -	Newcastle district - - -	15,049 19	
	Darlington " - - -	148 6	
	Stockton " - - -	6,530 8	
	Hull " - - -	13 7	
	Whitby " - - -	4,518 19	26,260 19
WHITEHAVEN " - - -	Newcastle district - - -	4,436 16	
	Darlington " - - -	2,268 16	
	Stockton " - - -	10,379 16	
	Whitby " - - -	45,021 15	62,107 3
	Carried forward - - -		

### Durham iron ore record (p.89) in 1874, pub 1875

IRON ORE RETURNS, 1874.

89

From.	To.	Weight to each District.	Total Weight.
		Tons. cwt.	Tons. cwt.
	Brought forward - -		
SOUTH - - -	Newcastle district - - -	13,335 7	209,943 17
	Darlington " - - -	20,532 2	
	Stockton " - - -	175,015 4	
	Hull " - - -	410 14	
	Sundry places - - -	650 10	
SUNDRY PLACES - -	Newcastle district - - -	660 3	5,309 1
	Darlington " - - -	233 4	
	Stockton " - - -	3,665 16	
	Whitby " - - -	185 18	
	Sundry places - - -	564 0	
IMPORTED - - -	Newcastle district - - -	66,877 0	142,129 6
	Darlington " - - -	19,736 1	
	Stockton " - - -	47,363 3	
	Whitby " - - -	4,450 0	
	Sunday places - - -	3,703 2	
	Total - - -	4,904,279 1	

### IRON ORE

IMPORTED into the TYNE, 1874, from Returns received at the RIVER DUES OFFICES.

	Tons.
From The Netherlands - - -	302
" France and Algeria - - -	13,173
" Russia - - -	25
" Italy - - -	12,108
" Spain and Portugal - - -	81,712
" Norway, Sweden, and Denmark - - -	2,613
" Austria, Turkey, and Greece - - -	17,208
" United Kingdom - - -	100
" South America - - -	1,137
Total - - -	128,378

### Weardale Iron Mines at work in 1874, pub 1875

IRON MINES, 1874.

211

No.	Name of Mine.	Situation.	Name of Proprietor or Company.	Name of Manager or Agent.
34	Rob Roy - - -	Leyburnthwaite - -	Rob Roy Mining Co. -	John Hall.
35	Red Pike - - -	Whitehaven - -	Whitehaven Mining Co.	W. H. Hosking.
36	Salter and Eskett Park	Ditto 7 pits	Salter and Eskett Park Co.	—
37	Sealelands - - -	Ditto 1 "	Sealelands Co.	—
38	Starling Dodd - -	Ditto - -	Whitehaven Mining Co.	W. H. Hosking.
39	Steel End - - -	Ditto - -	Steel End Mining Co.	John Hall.
40	Winder or Agnes - -	Ditto 2 pits	S. and J. Lindow -	Joseph Monkhouse.
41	Ditto - - -	Ditto 1 "	Cumberland Iron Min. & Smelting Co.	Thos. Massicks.
42	Winder Gill - - -	Ditto 1 pit	Maryport Iron Co. -	Allan Gilmour.
43	Woodend and Meadow	Ditto - -	James Bain and Co.	J. S. Simpson.
44	Waterblean - - -	Millom - 1	G. J. Eveson - -	W. Salmon.
45	Yeathouse - - -	Whitehaven, 1 pit -	Yeathouse Mining Co.	Geo. Wells.

### WESTMORELAND.

H.M. Inspector, THOMAS BELL, DURHAM.

1	Fairfield - - -	Grasmere - - -	Lake District Mining Co.	John Hall.
2	Grasmere - - -	Ambleside - - -	The Grasmere Haematite Iron Co.	—
3	Providence - - -	Grasmere - - -	P. Iron Co. (Lim.) -	John Muse.
4	Red Tarn - - -	Langdale - - -	T. Massicks and Co., Millom Iron Works.	T. Massicks.

### DURHAM AND NORTHUMBERLAND.

H.M. Inspector, THOMAS BELL, DURHAM.

1	Killhope - - -	Weardale - - -	Weardale Iron Co. -	J. R. Crone.
2	North Groove Rake -	Ditto - - -	Ditto - - -	Ditto.
3	South Groove ditto -	Ditto - - -	Ditto - - -	Ditto.
4	Levelgate - - -	Ditto - - -	Ditto - - -	Ditto.
5	Queensbury - - -	Ditto - - -	Ditto - - -	Ditto.
6	Slit Pasture - - -	Ditto - - -	Ditto - - -	Ditto.
7	Rowan Tree, A. - - -	Ditto - - -	Ditto - - -	Ditto.
8	Ditto, B. - - -	Ditto - - -	Ditto - - -	Ditto.
9	West Slitt - - -	Ditto - - -	Ditto - - -	Ditto.
10	North Grane - - -	Ditto - - -	Ditto - - -	Ditto.
11	Stanhope Burn or Redvein.	Ditto - - -	Ditto - - -	Ditto.

### WALES.

#### GLAMORGANSHIRE.

H.M. Inspector, T. E. WALES, SWANSEA.

1	Bute Haematite - -	Llantrissant - -	Dowlais Iron Co. -	Daniel Evans.
2	Mwyndy - - -	Ditto - - -	Mwyndy Iron Ore Co. (Limited).	William Vivian.
3	Tenby - - -	Tenby - - -	Kilgetty Company.	—
4	Llanharry - - -	Llantrissant - -	Trimsaran Coal and Iron Co.	—
5	Melyn Griffith - -	Cardiff - - -	Booker, T. W., & Co.	—

#### NORTH WALES.

H.M. Inspector, T. F. EVANS, AMLWCH, ANGLESEA.

1	Cwm Mountain - -	Cwm, near Rhyl -	Flintshire Haematite Co. Limited.	T. Humphreys.
2	Foelchirne - - -	Rhyl - - -	Ditto - - -	Ed. Thomas, Sec.
3	Henfryn - - -	Ditto - - -	Barnes and Anderson Newmarket, Capt. G. Lee, Sec.	Geo. Hy. Harrison.

### ISLE OF MAN.

H.M. Inspector, T. F. EVANS, AMLWCH, ANGLESEA.

1	Maughold Head - -	Douglas - - -	The Crown.	—
2	Maughold Dhyrnan -	North-east coast -	Rowe & Beckwith -	R. Rowe.

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Mineral Statistics for 1875, pub 1876  
 from <http://pubs.bgs.ac.uk/publications.html?pubID=B02472>

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WITH AN APPENDIX.

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1876.

[Price Two Shillings.]

39601.

**Weardale blast furnaces in 1875, pub 1876**

IRON MANUFACTURE RETURNS, 1875.

95

DETAILS OF BLAST FURNACES in Blast, and of the MAKE of PIG IRON  
 in the Year 1875.

**ENGLAND.**

No.	Name of Works.	Owners.	Furnaces built.	Furnaces in blast.	Pig Iron made. Tons.
<b>NORTHUMBERLAND :</b>					
1	Elswick, <i>Newcastle-on-Tyne.</i>	Sir W. G. Armstrong & Co.	2	1*	
2	Walker, <i>Newcastle-on-Tyne.</i>	Bell Brothers ( <i>Limited</i> ) -	2	1	
Total of NORTHUMBERLAND			4	2	22,870
			Tons.		
Coal returned as used in the } Manufacture of Pig Iron - }			54,812		
<b>DURHAM :</b>					
1	Carlton - -	North of England Industrial Iron and Coal Co.	3	3	
2	Port Clarence, <i>Mid-dlesbro'-on-Tees.</i>	Bell Brothers ( <i>Limited</i> ) -	12	12†	
3	Consett, <i>Durham</i> † -	Consett Iron Co. ( <i>Limited</i> ) -	6	5§	
4	Ferry Hill - -	Rosedale and Ferry Hill Iron Company ( <i>Limited</i> ).	10	7	
5	Jarrow-on-Tyne -	Palmer's Shipbuilding and Iron Company ( <i>Limited</i> ).	4	3	
6	Middleton, <i>Darlington</i>	George Wythes and Co. -	4	4	
7	Norton, <i>Stockton-on-Tees.</i>	Norton Iron Co. ( <i>Limited</i> )	3	3	
8	Norwegian - -	Titanic Iron Co. ( <i>Limited</i> ) -	2	1	
9	Vane and Seaham -	Watson, Kipling, & Co. -	2	1¶	
10	South Durham, <i>Darlington.</i>	South Durham Iron Company ( <i>Limited</i> ).	3	3	
11	Towlaw, <i>Darlington</i>	Weardale Iron and Coal Company ( <i>Limited</i> ).	4	2**	
12	Tudhoe, <i>Spennymoor</i>	Weardale Iron and Coal Co. ( <i>Limited</i> ).	2	2††	
13	Wear, <i>Washington</i> -	Bell Brothers ( <i>Limited</i> ) -	1	1	
14	West Hartlepool -	West Hartlepool Iron Co. ( <i>Limited</i> ).	3	0	
15	Witton Park - -	Bolekow, Vaughan, and Co. ( <i>Limited</i> ).	5	2	
16	Stockton - -	Stockton Iron Furnace Co. -	3	2	
17	Tees Bridge - -	Tees Bridge Iron Co. -	3	2	
Total of DURHAM - -			70	53	786,206
			Tons.		
Coal returned as used in the } Manufacture of Pig Iron - }			1,853,428		

\* One furnace for seven months.

† Ten furnaces all the year, and two furnaces for two months.

‡ Furnaces building.

§ Five furnaces for most of the year.

|| Seven furnaces for seven months, and five furnaces for five months.

¶ Part of the year only.

\*\* One furnace during the year, and one for four months.

†† One furnace for five, and two furnaces for four months.

### Yorkshire blast furnaces in 1875, pub 1876

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IRON MANUFACTURE RETURNS, 1875.

No.	Name of Works.	Owners.	Furnaces built.	Furnaces in blast.	Pig Iron made.
					Tons.
<b>YORKSHIRE :</b>					
<b>NORTH RIDING :</b>					
1	Acklam -	Stevenson, Jaques, & Co. -	4	4*	
2	Ayresome, <i>Middlesbro'-on-Tees.</i>	Gjers, Mills, and Co. -	4	4	
3	Cargo Fleet, do. -	Swan, Coates, and Company	5	5†	
4	Clay Lane, <i>Eston Junction</i>	Thomas Vaughan and Co. ( <i>Limited</i> ).	6	6‡	
5	Coatham, <i>Middlesbro'</i>	Downey and Co. -	2	2	
6	Middlesbro' -	Bolekow, Vaughan, and } Company ( <i>Limited</i> ).	11	9	
7	Cleveland -				
8	Glaisdale, <i>Yarm</i> -	South Cleveland Iron Works Co. ( <i>Limited</i> ).	3	0	
9	Grosmont, <i>Whitby</i> -	Chas. and Thos. Bagnall, jr.	3	2	
10	Lackenby, <i>Middlesbro'</i>	Lackenby Iron Company -	3	3	
11	Linthorpe, do. -	Lloyd & Co. -	6	6§	
12	Loftus -	The Loftus Iron Co. ( <i>Lim.</i> )	2	2	
13	Newport, <i>Middlesbro'</i>	B. Samuelson and Company	6	5¶	
14	Normanby, do. -	Jones, Dunning, and Co. -	3	3	
15	Ormesby, <i>Middlesbro'</i>	Cochrane and Co. -	4	3	
16	Redcar -	Robson, Maynard, & Co. -	4	2	
17	South Bank, <i>Middlesbro'</i>	Thomas Vaughan and Co. ( <i>Limited</i> ).	8	6**	
18	Tees, <i>Middlesbro'</i> -	Gilkes, Wilson, Pease, & Co.	5	5††	
19	Tees Side, do. -	Hopkins, Gilkes, & Co. ( <i>Lim.</i> )	4	4	
20	Thornaby, <i>Stockton</i> -	William Whitwell & Co. -	2	2	
Total of NORTH RIDING -			85	73	1,240,243
			Tons.		
Coal returned as used in the } Manufacture of Pig Iron -			2,591,357		
Coal estimated -			284,000		
<b>Total -</b>			<b>2,875,357</b>		
<b>YORKSHIRE :</b>					
<b>WEST RIDING :</b>					
1	Atlas -	John Brown and Co. ( <i>Lim.</i> )	3	3	
2	West Yorkshire, <i>Ardsley.</i>	West Yorkshire Iron and Coal Company ( <i>Limited</i> ).	5	4	
3	Beeston Manor, do. -	A. Harding and Co. -	2	1	
4	Bowling, <i>Bradford</i> -	Bowling Iron Co. ( <i>Lim.</i> ) -	6	4	
5	Elsecar } <i>Barnsley</i> -	George Dawes -	6	5	
6	Milton -				
7	Farnley, <i>Leeds</i> -	Farnley Iron Co. ( <i>Lim.</i> ) -	3	2	
8	Holmes -	Parkgate Iron Company ( <i>Limited</i> ) -	6	3	
9	Parkgate, <i>Rotherham</i> }				
10	Low Moor, <i>Bradford</i> }	Hird, Dawson, and Hardy -	8	6	
11	Bierley -				
12	Charlton, <i>Sheffield</i> -	Charlton Iron Co. -	2	2	
13	Thorncliffe, <i>Sheffield</i> -	Newton, Chambers, and Co.	2	2	
14	York Road, <i>Leeds</i> -	York Road Iron and Coal Co.	2	1	
15	Aireside, do. -	Aireside Hæmatite Iron Co.	3	3‡	
16	Tinsley, <i>Sheffield</i> -	William Cooke and Co. -	2	2	
Total of WEST RIDING -			50	37	267,153
			Tons.		
Coal returned as used in the } Manufacture of Pig Iron -			420,430		
Coal estimated -			275,127		
<b>Total -</b>			<b>695,557</b>		

\* Four from January to July, three from July to December, and four for December.

† Four furnaces for three months, and five for nine months.

‡ January to April six furnaces in blast, May and June five, July to November three, and December five.

§ Two furnaces off work for four months for repairs.

¶ Five furnaces to July, and three for the remainder of the year.

\*\* Two furnaces in blast in January and February, four in March, and six from April to December.

†† Two furnaces during the year, two for eight months, and one for nine months.

‡‡ Three for six months, and two remainder of year.

|| Furnace building.

### Weardale Bessemer Converters in 1875, pub 1876

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IRON MANUFACTURE RETURNS, 1875.

#### LIST OF WORKS having BESSEMER CONVERTERS in GREAT BRITAIN in 1875.

No.	Name and Situation of Works.	Number of Converters.	Capacity of Converters.
			Tons. Cwt.
1	Henry Bessemer and Co., Sheffield -	2	3 0
		2	5 0
	Bolchow, Vaughan, and Co., <i>Limited</i> -	4	6 10
3	John Brown and Co., <i>Limited</i> , Sheffield -	2	10 0
		2	7 0
4	Sheffield Steel and Iron Works, Attercliffe, near Sheffield. Brown, Bayley, and Dixon, <i>Limited</i> }	4	6 0
		4	8 0
5	Charles Cammell and Co., <i>Limited</i> , Sheffield, <i>Cylops</i> }	4	4 0
		2	5 0
6	" " <i>Yorkshire</i> -	2	7 0
		4	2 10
7	The Glasgow Bessemer Steel Co., <i>Limited</i> , Atlas Works, Glasgow }	2	3 0
		2	3 0
8	Samuel Fox and Co., Stockbridge Works, Deepcar }	2	5 0
		2	3 0
9	Lloyds, Foster, and Co., Old Park, Wednesbury	4	3 0
10	Bolton Iron and Steel Works, Bolton -	4	6 0
11	London and North Western Railway, Crewe -	2	3 0
12	Manchester, Sheffield, and Lincolnshire Railway Co., Gorton Works, near Manchester }	2	3 10
		2	3 10
13	Mersey Steel and Iron Works, Liverpool -	10	5 0
14	Manchester Steel and Railway Plant Co., Gibraltar Works, Newton Heath, Manchester }	4	3 0
		4	3 0
15	Barrow Hæmatite Steel Co., Barrow -	8	6 0
16	The Dowlais Iron Co., Dowlais -	6	5 0
17	Ebbw Vale Co., Ebbw Vale -	7	6 0
18	Steel Ordnance Co., Limited, Greenwich -	2	5 0
19	West Cumberland Iron and Steel Co., Workington	4	6 0
20	Phœnix Iron Co., Rotherham -	2	3 10
21	Carnforth Hæmatite Iron Co., <i>Limited</i> -	2	-
22	Patent Shaft and Axletree Co., Wednesbury -	4	3 0

Durham iron ore record (p.86) in 1875, pub 1876

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IRON ORE RETURNS, 1875.

No.	District or Mine.	Character of Ore.	Quantities.	Value.		
			Tons. cwt.	£ s. d.		
YORKSHIRE, WEST RIDING.	1 Beeston - - -	Black Band - -	6,668 6	159,089 0 0		
	2 Bowling - - -	Argillaceous Carbonate	33,471 0			
	3 Calder - - -	Ditto - - -	240 0			
	4 Elsecar - - -	Ditto - - -	32,391 0			
	5 Farnley - - -	Ditto - - -	21,473 0			
	6 Killinbeck - - -	Black Band - -	4,058 0			
	7 Low Moor - - -	Argillaceous Carbonate	69,883 0			
	8 Thorncliffe - - -	Ditto - - -	20,839 0			
	9 White Horse - - -	Ditto - - -	8,602 0			
	10 Sundry Mines (estimated) - - -	Ditto - - -	140,000 0			
	11 Yorkshire Colliery - - -	Ditto - - -	763 0			
	12 York Road - - -	Dit o - - -	15,144 0			
	Total of WEST RIDING - - -		353,582 0	159,089 0 0		
	Total of NORTH RIDING - - -		6,121,794 9	1,222,358 17 6		
	Total of YORKSHIRE - - -		6,475,376 9	1,381,447 17 6		
WEARDALE.						
DURHAM AND NORTHUMBERLAND.	1 Red Vein - - -	Spathose Carbonate and Silicious Hematite.	34,828 15	21,626 0 0		
	2 Groove Rake - - -					
	3 South Groove Rake - - -	Ditto - - -				
	4 North Grane - - -	Ditto - - -				
	5 West Slitt - - -	Ditto - - -				
	6 Rowantree A. - - -	Ditto - - -				
	7 Do. B. - - -	Ditto - - -				
	8 Do. B. Quarry - - -	Ditto - - -				
	9 Levelgate - - -	Ditto - - -				
	10 Levelgate Quarry - - -	Ditto - - -				
	11 Slitt Pasture do. - - -	Ditto - - -				
	12 Queensbury do. - - -	Ditto - - -				
	Total of WEARDALE - - -		34,828 15	21,626 0 0		
	13 Brancepeth - - -	Argillaceous Carbonate	10,500 0*	6,300 0 0		
	14 Brandon - - -	Ditto - - -				
	15 Oakenshaw - - -	Ditto - - -				
	16 Wellington - - -	Ditto - - -				
	17 Ridsdale (Bellingham) - - -	Ditto - - -				
	18 Seaham - - -	Ditto - - -				
	19 Stiddle Hill - - -	Ditto - - -			10,774 0	6,444 0 0
	20 West Hartley - - -	Ditto - - -			2,000 0	1,200 0 0
	21 West Stanley - - -	Ditto - - -			2,413 0	1,447 0 0
	Total of DURHAM and NORTHUMBERLAND - - -		60,515 15	37,017 0 0		

\* Estimated.

Durham iron ore record (p.87) in 1875, pub 1876

IRON ORE RETURNS, 1875.

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RAILWAY DISTRIBUTION.

STATEMENT of IRON ORE conveyed over the NORTH-EASTERN RAILWAY in the Year 1875.

From	To	Weight to each District.	Total Weight.
		Tons cwt.	Tons cwt.
NORTHUMBERLAND, and DISTRICT of NEWCASTLE and CARLISLE RAILWAY.	Darlington district - - -	676 18	10,489 10
	Newcastle " - - -	9,812 12	
NEWCASTLE DISTRICT -	Darlington district - - -	2,997 13	8,426 3
	Newcastle " - - -	2,701 14	
	Stockton " - - -	2,726 16	
DARLINGTON DISTRICT -	Darlington district - - -	46,660 13	46,792 5
	Stockton " - - -	131 12	
STOCKTON DISTRICT -	Stockton district - - -	322,466 19	332,125 2
	Darlington " - - -	3,262 4	
	Newcastle " - - -	794 13	
	Whitby " - - -	601 6	
CLEVELAND DISTRICT, viâ NORTH YORKSHIRE and CLEVELAND RAILWAY.	Darlington district - - -	229,248 3	415,803 2
	Stockton " - - -	138,985 17	
	Whitby " - - -	36,827 3	
	Newcastle " - - -	10,741 19	
CLEVELAND DISTRICT, viâ STOCKTON and DAR- LINGTON RAILWAY.	Darlington district - - -	478,429 4	4,267,821 17
	Newcastle " - - -	35,925 19	
	Stockton " - - -	3,753,466 14	
ULVERSTONE ORE -	Newcastle district - - -	10,970 11	21,599 11
	Stockton " - - -	9,994 17	
	Darlington " - - -	54 14	
	Whitby " - - -	564 9	
	Hull " - - -	15 0	
WHITEHAVEN ORE -	Whitby district - - -	16,250 9	48,734 10
	Stockton " - - -	11,362 9	
	Newcastle " - - -	62 15	
	Darlington " - - -	21,058 17	
	Carried forward - - -		5,151,792 0

Durham iron ore record (p.88) in 1875, pub 1876

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IRON ORE RETURNS, 1875.

From	To	Weight to each District.	Total Weight.
		Tons cwts.	Tons. cwts.
	Brought forward - -		5,151,792 0
SOUTH - - -	Newcastle district - -	3,839 3	
	Stockton " - -	30,531 6	
	Darlington " - -	15,567 2	
	Hull " - -	5,603 3	
	Sundry places " - -	967 5	56,507 19
SUNDRY PLACES - -	Whitby district - -	1,805 12	
	Stockton " - -	2,444 1	
	Darlington " - -	2,338 11	6,588 4
IMPORTED - - -	Stockton district - -	14,037 7	
	Darlington " - -	60,981 14	
	Newcastle " - -	13,520 3	
	Whitby " - -	124 11	
	Sunday places - -	1,561 3	90,224 18
	<b>Total</b> - -	<b>5,305,113 1</b>	

Weardale Iron Mines at work in 1875, pub 1876

IRON MINES, 1875.

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No.	Name of Mine.	Situation.	Name of Proprietor or Company.	Name of Manager or Agent.
28	Mowbray, 1 Pit	Cockermouth	Mowbray Iron Ore Co. (Limited.)	J. Robertson.
29	Moor Row or Fletcher	Ditto	Moor Row Mining Co.	Wm. Burnyeat.
30	Pallafatt	Birrig	Wordsworth Harrison.	---
31	Parkside, 7 Pits	Whitehaven	The Parkside Iron Mining Co.	George Scoular.
32	Parkside	Ditto	Sherwan and Co.	George Grey.
33	Scalelands	Ditto	Scalelands Mining Co.	Wm. Miller.
34	Steel End	Ditto	Steel End Mining Co.	John Hall.
35	Walsh	Ditto	Messrs. Lindows	Burns Lindow.
36	Waterblean, 1 Pit	Green Roads, Millom	G. J. Evesson & Co.	---
37	Winder	Millom	Millom Iron Ore Co.	Thomas Massicks.
38	Yeathouse	Whitehaven	Yeathouse Mining Co.	Isaac Gould.

WESTMORELAND.

H.M. Inspector, THOMAS BELL, DURHAM.

1	Fairfield	Grasmere	Lake District Mining Co.	John Hall.
2	Grasmere	Ambleside	The Grasmere Hematite Iron Co.	---
3	Providence	Grasmere	P. Iron Co. (Lim.)	John Muse.
4	Red Tarn	Langdale	T. Massicks and Co.	T. Massicks.

DURHAM AND NORTHUMBERLAND.

H.M. Inspector, THOMAS BELL, DURHAM.

1	Killhope	Weardale	Weardale Iron Co.	J. R. Crone.
2	North Groove Rake	Ditto	Ditto	Ditto.
3	South Groove ditto	Ditto	Ditto	Ditto.
4	Levelgate	Ditto	Ditto	Ditto.
5	Queensbury	Ditto	Ditto	Ditto.
6	Silt Pasture	Ditto	Ditto	Ditto.
7	Rowan Tree, A.	Ditto	Ditto	Ditto.
8	Ditto, B.	Ditto	Ditto	Ditto.
9	West Silt	Ditto	Ditto	Ditto.
10	North Grane	Ditto	Ditto	Ditto.
11	Stanhope Burn or Redvein.	Ditto	Ditto	Ditto.

WALES.

GLAMORGANSHIRE.

H.M. Inspector, T. E. WALES, SWANSEA.

1	Bute Hematite	Llantrissant	Dowlais Iron Co.	Daniel Evans.
2	Mwynydy	Ditto	Mwynydy Iron Ore Co. (Limited).	William Vivian.
3	Llanharry	Ditto	Trimsaran Coal and Iron Co.	---
4	Rudry	Ditto	Rudry Iron Ore Co.	---
5	Melyn Griffith	Cardiff	T. W. Booker & Co.	---

NORTH WALES.

H.M. Inspector, T. F. EVANS, AMLWCH, ANGLESEA.

1	Cwm Mountain	Flint	Joshua Lancaster and others.	Edward Thomas.
2	Foelrhine	Rhyl	Flintshire Hematite Co. (Limited).	---
3	Henfryn	Newmarket, Rhyl	Barnes, Anderson, & Co.	Edward Thomas.
4	Nant Ucha	Abergelle	Stock, Gamble, and Thorburn.	Johnstone Dazell.

ISLE OF MAN.

H.M. Inspector, T. F. EVANS, AMLWCH, ANGLESEA.

1	Maughold Head	Douglas	The Crown.	---
2	Maughold Dhynane	North-east coast	Bowe & Beckwith	R. Rowe.

**MEMOIRS**  
 OF THE  
**GEOLOGICAL SURVEY OF GREAT BRITAIN**  
 AND OF THE  
**MUSEUM OF PRACTICAL GEOLOGY.**

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**MINERAL STATISTICS**  
 OF THE  
**UNITED KINGDOM OF GREAT BRITAIN**  
**AND IRELAND,**  
**FOR THE YEAR 1876.**  
 WITH AN APPENDIX.

BY **ROBERT HUNT, F.R.S.,**  
 KEEPER OF MINING RECORDS.

PUBLISHED BY ORDER OF THE LORDS COMMISSIONERS OF  
 HER MAJESTY'S TREASURY.

LONDON:  
 PRINTED FOR HER MAJESTY'S STATIONERY OFFICE:  
 PUBLISHED BY  
**LONGMANS, GREEN, & CO.;**  
 AND BY  
**EDWARD STANFORD, 55, CHARING CROSS, S.W.**  
 1877.  
 [Price 2s.]

42702.

IRON MANUFACTURE RETURNS, 1876. 65

**DETAILS of BLAST FURNACES in Blast, and of the MAKE of PIG IRON in the Year 1876.**

**ENGLAND.**

No.	Name of Works.	Owners.	Furnaces built.	Furnaces in blast.	Pig Iron made.
					Tons.
<b>NORTHUMBERLAND :</b>					
1	Elswick, <i>Newcastle-on-Tyne.</i>	Sir W. G. Armstrong & Co.	2	1	
2	Walker, <i>Newcastle-on-Tyne.</i>	Bell Brothers ( <i>Limited</i> ) -	2	0	
Total of NORTHUMBERLAND			4	1	
<b>DURHAM :</b>					
1	Carlton, <i>Stockton-on-Tees.</i>	North of England Industrial Iron and Coal Co. ( <i>Lim.</i> ).	3	3	
2	Port Clarence, <i>Middlesbro'-on-Tees.</i>	Bell Brothers ( <i>Limited</i> ) -	12	12*	
3	Consett, <i>Durham</i> † -	Consett Iron Co. ( <i>Limited</i> ) -	6	4	
4	Ferry Hill -	Rosedale and Ferry Hill Iron Company ( <i>Limited</i> ).	9	9‡	
5	Jarrow-on-Tyne -	Palmer's Shipbuilding and Iron Company ( <i>Limited</i> ).	3	3	
6	Middleton, <i>Darlington</i>	George Wythes and Co. -	4	3	
7	Norton, <i>Stockton-on-Tees.</i>	Norton Iron Co. ( <i>Limited</i> )	3	2½	
8	Norwegian -	Titanic Iron Co. ( <i>Limited</i> ) -	2	1	
9	Vane and Seaham -	Watson, Kipling, & Co. -	2	0	
10	South Durham, <i>Darlington.</i>	South Durham Iron Company ( <i>Limited</i> ).	3	3	
11	Towlaw, <i>Darlington</i>	Weardale Iron and Coal Company ( <i>Limited</i> ).	4	2	
12	Tudhoe, <i>Spennymoor</i>	Weardale Iron and Coal Co. ( <i>Limited</i> ).	2	0	
13	Wear, <i>Washington</i> -	Bell Brothers ( <i>Limited</i> ) -	1	0	
14	West Hartlepool -	West Hartlepool Iron Co. ( <i>Limited</i> ).§	3	0	
15	Witton Park -	Bolekow, Vaughan, and Co. ( <i>Limited</i> ).	6	3	
16	Stockton, North Shore	Stockton Iron Furnace Co. -	3	2	
17	Tees Bridge -	Tees Bridge Iron Co. ( <i>Lim.</i> )	3	3	
Total of DURHAM and NORTHUMBERLAND -			73	51½	823,172
					Tons.
<b>Coal returned as used in the Manufacture of Pig Iron -</b>					<b>1,895,402</b>

\* Twelve furnaces for first half year, and eleven the second half year.  
 † One furnace building.  
 ‡ Five furnaces for four months, and six for eight months.  
 § In liquidation.

42702. E

Yorkshire blast furnaces in 1876, pub 1877

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IRON MANUFACTURE RETURNS, 1876.

No.	Name of Works.	Owners.	Furnaces built.	Furnaces in blast.	Pig Iron made.
YORKSHIRE:					
NORTH RIDING:					
1	Acklam -	Stevenson, Jaques, & Co. -	4	4	
2	Ayresome, <i>Middlesbro'-on-Tees.</i>	Gjers, Mills, and Co. -	4	4	
3	Cargo Fleet, do. -	Swan, Coates, and Company	5	5*	
4	Clay Lane, <i>Eston Junction</i>	Thomas Vaughan and Co. (Limited).	6	6	
5	Coatham, <i>Middlesbro'</i>	Downey and Co. -	2	2	
6	Middlesbro' -	Bolckow, Vaughan, and	3	1	
7	Cleveland† -	Company (Limited). } South Cleveland Iron Works	8	8	
8	Glaisdale, <i>Yarm</i>	Co. (Limited). } Co. (Limited).	3	0	
9	Grosmont, <i>Whitby</i> -	Chas. and Thos. Bagnall, jr.	3	2†	
10	Lackenby, <i>Middlesbro'</i>	Lackenby Iron Company -	3	3	
11	Linthorpe, do. -	Lloyd & Co. -	6	6	
12	Loftus -	The Loftus Iron Co. (Lim.)	2	2	
13	Newport, <i>Middlesbro'</i> §	B. Samuelson and Company	6	6	
14	Normanby, do. -	Jones, Dunning, and Co. -	3	3†	
15	Ormesby, <i>Middlesbro'</i>	Cochrane and Co. -	4	3	
16	Redcar -	Robson, Maynard, & Co. -	4	4	
17	South Bank, <i>Middlesbro'</i>	Thomas Vaughan and Co. (Limited).	8	6	
18	Tees, <i>Middlesbro'</i> **	Gilkes, Wilson, Pease, & Co.	4	4	
19	Tees Side, do. -	Hopkins, Gilkes, & Co. (Lim.)	5	3††	
20	Thornaby, <i>Stockton</i> -	William Whitwell & Co. -	3	3	
Total of NORTH RIDING -			86	75	1,261,013
Coal returned as used in the } Manufacture of Pig Iron - } 2,878,870					
Coal estimated - - - 45,000					
Total - - - 2,923,870					
YORKSHIRE:					
WEST RIDING:					
1	Atlas -	John Brown and Co. (Lim.)	3	3	
2	West Yorkshire, <i>Ardley.</i>	West Yorkshire Iron and Coal Company (Limited).	5	4	
3	Beeston Manor, do. -	A. Harding and Co. -	2	1	
4	Bowling, <i>Bradford</i> -	Bowling Iron Co. (Lim.) -	6	3	
5	Elsecar } Milton } <i>Barnsley</i> -	George Dawes -	6	4	
6	Farnley, <i>Leeds</i> -	Farnley Iron Co. (Lim.) -	2	2	
7	Holmes -	Parkgate Iron Company (Limited)	2	2	
8	Parkgate, <i>Rotherham</i> -	-	6	2	
9	Low Moor, <i>Bradford</i> -	Hird, Dawson, and Hardy -	8	7	
10	Bierley -	Charlton Iron Co. -	2	1	
11	Charlton, <i>Sheffield</i> -	Newton, Chambers, and Co.	2	2	
12	Thorncliffe, <i>Sheffield</i> -	York Road Iron and Coal Co.	2	1	
13	York Road, <i>Leeds</i> -	Aireside Hematite Iron Co.	3	2	
14	Aireside, do. -	William Cooke and Co. (Lim.)	2	2	
15	Tinsley, <i>Sheffield</i> -	-	2	2	
Total of WEST RIDING -			49	34	235,451
Coal returned as used in the } Manufacture of Pig Iron - } 400,030					
Coal estimated - - - 155,200					
Total - - - 555,230					

\* Five furnaces from January to May, four from May to September, and three from September to December.  
 † Both furnaces out of blast for some time.  
 ‡ January to August, three; August to October, five; and October to December, six furnaces.  
 § To September when they were blown out.  
 ¶ Three in blast all the year, and two for eight months.  
 †† Three building.  
 ‡‡ Furnace building.  
 §§ Two building.

Weardale Bessemer Converters in 1876, pub 1877

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IRON MANUFACTURE RETURNS, 1876.

LIST OF WORKS having BESSEMER CONVERTERS in GREAT BRITAIN in 1876.

No.	Name and Situation of Works.	Number of Converters.	Capacity of Converters.
Tons. Cwt.			
1	Henry Bessemer and Co., Sheffield - -	{ 2 2	3 0 5 0
2	Bolchow, Vaughan, and Co., Limited - -	4	6 10
3	John Brown and Co., Limited, Sheffield - -	{ 2 2 2	10 0 7 0 6 0
4	Sheffield Steel and Iron Works, Attercliffe, near Sheffield. Brown, Bayley, and Dixon, Limited	4	8 0
	Charles Cammell and Co., Limited, Sheffield, <i>Cylops</i>	4	4 0
	" " Yorkshire -	{ 2 2	5 0 7 0
6	Weardale Iron Co., Tudhoe, Ferryhill - -	4	2 10
7	The Glasgow Bessemer Steel Co., Limited, Atlas Works, Glasgow - -	2	3 0
8	Samuel Fox and Co., Stockbridge Works, Deepcar	{ 2 2	5 0 3 0
9	Lloyds, Foster, and Co., Old Park, Wednesbury	4	3 0
10	Bolton Iron and Steel Works, Bolton - -	4	6 0
11	London and North Western Railway, Crewe -	2	3 0
12	Manchester, Sheffield, and Lincolnshire Railway Co., Gorton Works, near Manchester	2	3 10
13	Mersey Steel and Iron Works, Liverpool -	10	5 0
14	Manchester Steel and Railway Plant Co., Gibraltar Works, Newton Heath, Manchester - -	4	3 0
15	Barrow Hematite Steel Co., Barrow - -	18	6 0
16	The Dowlais Iron Co., Dowlais - -	6	5 0
17	Ebbw Vale Co., Ebbw Vale - - - -	6	6 0
18	Steel Ordnance Co., Limited, Greenwich - -	2	5 0
19	West Cumberland Iron and Steel Co., Workington	4	6 0
20	Phoenix Iron Co., Rotherham - - -	2	3 10
21	Carnforth Hematite Iron Co., Limited - -	2*	6 0
22	Patent Shaft and Axletree Co., Wednesbury -	4	3 0
23	The Moss Bay Hematite Iron and Steel Co., Workington - - - -	2	7 0

\* Not in operation.

Durham iron ore record (p.58) in 1876, pub 1877

58

IRON ORE RETURNS, 1876.

RAILWAY DISTRIBUTION.

STATEMENT of IRON ORE conveyed over the NORTH-EASTERN RAILWAY in the Year 1876.

From	To	Weight to each District.	Total Weight.
		Tons.	Tons.
NORTHUMBERLAND, and DISTRICT of NEWCASTLE and CARLISLE RAILWAY.	Darlington district - -	27,524	27,524
NEWCASTLE DISTRICT -	Darlington district - -	6	
	Stockton " - -	9	
	Whitby " - -	8,221	8,236
DARLINGTON DISTRICT -	Darlington district - -	7,789	
	Stockton " - -	8	7,797
STOCKTON DISTRICT -	Darlington district - -	29,904	
	Stockton " - -	40,626	
	South " - -	1,430	71,960
CLEVELAND DISTRICT, via NORTH YORKSHIRE and CLEVELAND RAILWAY.	Newcastle district - -	13,968	
	Darlington " - -	253,089	
	Stockton " - -	68,830	
	Hull " - -	920	336,807
CLEVELAND DISTRICT, via STOCKTON and DARLINGTON RAILWAY.	Newcastle district - -	120,922	
	Darlington " - -	151,563	
	Hull " - -	4,489,106	4,761,591
ULVERSTONE -	Newcastle district - -	1,756	
	Darlington " - -	2,707	
	Stockton " - -	9,298	13,761
SOUTH -	Newcastle district - -	8,562	
	Darlington " - -	3,289	
	Stockton " - -	2,556	
	Hull " - -	1,915	
	Sundry places - -	2,631	18,953
	Carried forward - -		5,246,629

Durham iron ore record (p.59) in 1876, pub 1877

IRON ORE RETURNS, 1876.

59

From	To	Weight to each District.	Total Weight.
		Tons.	Tons.
	Brought forward - -		5,246,629
WHITEHAVEN -	Newcastle district - -	11,163	
	Darlington " - -	30,031	
	Stockton " - -	349	41,543
SUNDRY PLACES -	Newcastle district - -	8,755	
	Darlington " - -	15	
	Whitby " - -	2,072	10,842
IMPORTED -	Newcastle district - -	59,548	
	Darlington " - -	22,221	
	Stockton " - -	38,217	
	Sundry places - -	7,576	127,562
	Total -		5,426,576

No.	District or Mine.	Character of Ore.	Quantities.	Value.
			Tons. cwt.	£ s. d.
	WEARDALE.			
DURHAM AND NORTHUMBERLAND.	1 Red Vein - -	Spathose and Silicious Hematite.	6,241 1	14,521 16 0
	2 West Slitt - -	Ditto - -	5,879 15	
	3 Rowantree - -	Ditto - -	360 1	
	4 Levelgate - -	Ditto - -	2,479 5	
	5 Slitt Pasture - -	Ditto - -	2,148 2	
	6 Queensbury - -	Ditto - -	7,094 8	
	Total of WEARDALE - -		24,202 12	14,521 16 0
SOUTH WALES.	1 Bute, Llantrissant - -	Brown Hematite - -	8,525 15	4,262 17 0
	2 Garth - -	Ditto - -	13,421 0	6,710 10 0
	3 Mwyndy - -	Ditto - -	61,618 0	30,309 0 0
	4 Rudry - -	Ditto - -	405 0	202 10 0
	Total of SOUTH WALES - -		83,969 15	41,484 17 0

**Weardale Iron Mines at work in 1876, pub 1877**

IRON MINES, 1876.				165
No.	Name of Mine.	Situation.	Name of Proprietor or Company.	Name of Manager or Agent.
29	Mowbray, 1 Pit	Cockermouth	Mowbray Iron Ore Co. (Limited).	J. Robertson.
30	Moor Row or Fletcher	Ditto	Moor Row Mining Co.	Wm. Burnyeat, junr.
31	Pallaflatt	Bigrigg	Wordsworth Harrison.	—
32	Parkside, 7 Pits	Whitehaven	The Parkside Iron Mining Co.	George Scoular.
33	Parkside	Ditto	Sherwan and Co.	George Grey.
34	Scalelands	Ditto	Scalelands Mining Co.	Wm. Miller.
35	Steel End	Ditto	Steel End Mining Co.	John Hall.
36	Walsh	Ditto	Messrs. Lindows	Burns Lindow.
37	Waterblean, 1 Pit	Green Roads, Millom	G. J. Eveson & Co.	—
38	Winder	Millom	Cumberland Iron Mining and Smelting Co. (Limited).	Thomas Massick.
39	Yeathouse	Whitehaven	Yeathouse Mining Co.	Isaac Gould.
<b>WESTMORELAND.</b>				
<i>H.M. Inspector, THOMAS BELL, DURHAM.</i>				
1	Fairfield	Grasmere	Lake District Mining Co.	John Hall.
2	Grasmere	Ambleside	Muse, Stroughton-Ashton, and others.	Isaac Mossop.
3	Providence	Grasmere	Providence Iron Co. (Lim.)	John Muse.
<b>DURHAM AND NORTHUMBERLAND.</b>				
<i>H.M. Inspector, THOMAS BELL, DURHAM.</i>				
1	Killhope	Weardale	Weardale Iron Co.	J. R. Crone.
2	North Groove Rake	Ditto	Ditto	Ditto.
3	South Groove ditto	Ditto	Ditto	Ditto.
4	Leveigate	Ditto	Ditto	Ditto.
5	Queensbury	Ditto	Ditto	Ditto.
6	Slit Pasture	Ditto	Ditto	Ditto.
7	Rowan Tree, A.	Ditto	Ditto	Ditto.
8	Ditto, B.	Ditto	Ditto	Ditto.
9	West Slitt	Ditto	Ditto	Ditto.
10	North Grane	Ditto	Ditto	Ditto.
11	Stanhope Burn or Redvein.	Ditto	Ditto	Ditto.
<b>MONMOUTHSHIRE.</b>				
1	Blaenavon	Blaenavon	Blaenavon Iron and Steel Co. (Limited).	Ed. P. Martin.
<b>WALES.</b>				
<b>GLAMORGANSHIRE.</b>				
<i>H.M. Inspector, T. E. WALES, SWANSEA.</i>				
1	Bute Hamatite	Llantrissant	Dowla's Iron Co.	Wm. Powell.
2	Mwyndy	Ditto	Mwyndy Iron Ore Co. (Limited).	William Vician.
3	Llanharry	Ditto	Trimsaran Coal and Iron Co.	—
4	Rudry	Ditto	Rudry Iron Ore Co.	—
5	Melyn Griffith	Cardiff	T. W. Booker & Co.	—
6	Garth	Ditto	T. W. Booker and Co. (Limited).	E. D. Howell.
<b>NORTH WALES.</b>				
<i>H.M. Inspector, T. F. EVANS, AMLWCH, ANGLESEA.</i>				
1	Cwm Mountain	Flint	Joshua Lancaster and others.	Edward Thomas.
2	Poelchine	Rhyl	Flintshire Hamatite Co. Limited.	—
3	Henfryn	Newmarket, Rhyl	Anderson and Co.	Geo. Harrison.
4	Nant Ucha	Abergele	Stock, Gamble, and Thorburn.	Johnstone Dazell.

Mineral Statistics for 1877, pub 1878  
from <http://pubs.bgs.ac.uk/publications.html?pubID=B02474>

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**MINERAL STATISTICS**

OF THE

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AND IRELAND,**

**FOR THE YEAR 1877.**

WITH AN APPENDIX.

BY ROBERT HUNT, F.R.S.,  
KEEPER OF MINING RECORDS.

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**LONGMANS, GREEN, & CO.;**

AND BY

**EDWARD STANFORD, 55, CHARING CROSS, S.W.**

1878.

[Price 2s.]

## Weardale blast furnaces in 1877, pub 1878

IRON MANUFACTURE RETURNS, 1877.

71

DETAILS of BLAST FURNACES in Blast, and of the MAKE of PIG IRON  
in the Year 1877.

### ENGLAND.

No.	Name of Works.	Owners.	Furnaces built.	Furnaces in blast.	Pig Iron made. Tons.
<b>NORTHUMBERLAND :</b>					
1	Elswick, <i>Newcastle-on-Tyne.</i>	Sir W. G. Armstrong & Co.	2	1	
2	Walker, <i>Newcastle-on-Tyne.</i>	Bell Brothers ( <i>Limited</i> ) -	2	0	
Total of NORTHUMBERLAND			4	1	
<b>DURHAM :</b>					
1	Carlton, <i>Stockton-on-Tees.</i>	The Carlton Iron Co. -	3	3	
2	Port Clarence, <i>Mid-lesbro'-on-Tees.</i>	Bell Brothers ( <i>Limited</i> ) -	12	10	
3	Consett, <i>Durham</i> -	Consett Iron Co. ( <i>Limited</i> ) -	6	5	
4	Ferry Hill -	Rosedale and Ferry Hill Iron Company ( <i>Limited</i> ). -	10	6*	
5	Jarrow-on-Tyne -	Palmer's Shipbuilding and Iron Company ( <i>Limited</i> ). -	3	2	
6	Middleton, <i>Darlington</i>	George Wythes and Co. -	4	0	
7	Norton, <i>Stockton-on-Tees.</i>	Norton Iron Co. ( <i>Limited</i> )	3	2†	
8	Norwegian -	Titanic Iron Co. ( <i>Limited</i> ) -	2	0	
9	Vane and Seaham -	Watson, Kipling, & Co. ( <i>Lim.</i> )	2	0	
10	South Durham, <i>Darlington.</i>	South Durham Iron Company ( <i>Limited</i> ). -	3	3‡	
11	Towlaw, <i>Darlington</i>	Weardale Iron and Coal Company ( <i>Limited</i> ). -	4	2	
12	Tudhoe, <i>Spennymoor</i>	Weardale Iron and Coal Co. ( <i>Limited</i> ). -	2	0	
13	Wear, <i>Washington</i> -	Bell Brothers ( <i>Limited</i> ) -	1	0	
14	West Hartlepool -	West Hartlepool Iron Co. ( <i>Limited</i> ). -	3	0	
15	Witton Park -	Bolckow, Vaughan, and Co. ( <i>Limited</i> ). -	6	4	
16	Stockton, North Shore	Stockton Iron Furnace Co. -	3	0	
17	Tees Bridge, <i>Stockton</i>	Tees Bridge Iron Co. ( <i>Lim.</i> )	3	3	
Total of DURHAM and NORTHUMBERLAND - }			70	40	734,438
Coal returned as used in the Manufacture of Pig Iron - }			Tons. <b>1,656,056</b>		

\* Six furnaces for three months, and five for nine months.

† For seven months only.

‡ For six months only.

## Weardale Bessemer Converters in 1877, pub 1878

90

IRON MANUFACTURE RETURNS, 1877.

LIST OF WORKS having BESSEMER CONVERTERS in GREAT  
BRITAIN in 1877.

No.	Name and Situation of Works.	Number of Converters.	Capacity of Converters. Tons. Cwt.
1	Henry Bessemer and Co., Limited, Sheffield -	2	3 0
		2	5 0
2	Bolckow, Vaughan, and Co., <i>Limited</i> - -	4	8 0
3	John Brown and Co., <i>Limited</i> , Sheffield -	4	7 0
		2	10 0
4	Sheffield Steel and Iron Works, Attercliffe, near Sheffield. Brown, Bayley, and Dixon, <i>Limited</i> }	4	8 0
5	Charles Cammell and Co., <i>Limited</i> , Sheffield, <i>Cyclops</i>	4	4 0
	" " <i>Yorkshire</i> -	2	5 0
		2	7 0
6	Weardale Iron Co., Tudhoe, Ferryhill - -	4	2 10
7	The Glasgow Bessemer Steel Co., <i>Limited</i> , Atlas Works, Glasgow - - - }	2	3 0
8	Samuel Fox and Co., Stockbridge Works, Sheffield	2	5 0
9	Lloyds, Foster, and Co., Old Park, Wednesbury	4	3 0
10	Bolton Iron and Steel Works, Bolton - -	4	6 0
11	London and North Western Railway, Crewe -	2	3 0
12	Manchester, Sheffield, and Lincolnshire Railway Co., Gorton Works, near Manchester - }	2	3 10
13	Mersey Steel and Iron Works, Liverpool -	10	5 0
14	Manchester Steel and Railway Plant Co., Gibraltar Works, Newton Heath, Manchester - - }	4	3 0
15	Barrow Hematite Steel Co., Barrow - -	18	6 0
		2	7 10
16	The Dowlais Iron Co., Dowlais - - - }	2	6 0
		2	5 0
		4	6 0
17	Ebbw Vale Co., Ebbw Vale - - - - }	2	8 0
		2	5 0
18	West Cumberland Iron and Steel Co., Workington }	2	8 0
		2	7 0
19	Phoenix Bessemer Steel Works, Rotherham. Steel, Tozer, and Hampton, <i>Limited</i> - - }	2	6 0
		2	2 10
20	Carnforth Hematite Iron Co., <i>Limited</i> - -	2*	6 0
21	Patent Shaft and Axletree Co., Wednesbury -	4	3 0
22	The Moss Bay Hematite Iron and Steel Co., Workington - - - }	2	7 0
23	Rhymney Iron Co., <i>Limited</i> , Rhymney - -	2	8 0

\* Not yet in operation.

Durham iron ore record (p.63) in 1877, pub 1878

IRON ORE RETURNS, 1877.

63

RAILWAY DISTRIBUTION.

STATEMENT of IRON ORE conveyed over the NORTH-EASTERN RAILWAY in the Year 1877.

From	To	Weight to each District.	Total Weight.
		Tons. cwt.	Tons. cwt.
NORTHUMBERLAND, and DISTRICT OF NEWCASTLE and CARLISLE RAILWAY.	Darlington district - Newcastle " - Stockton " - Sundry places -	37,896 5 4,361 11 31 10 278 7	43,067 13
NEWCASTLE DISTRICT	Darlington district - Stockton " - Whitby " -	10 15 20,434 12	20,445 13
DARLINGTON DISTRICT	Darlington district - Stockton " -	13,941 9 891 2	14,832 11
STOCKTON DISTRICT	Darlington district - Stockton " - South " -	14,196 5 55,653 3	69,849 8
CLEVELAND DISTRICT, via NORTH YORKSHIRE and CLEVELAND RAILWAY.	Newcastle district - Darlington " - Stockton " - Whitby " -	5,835 11 241,511 5 62,669 6 7,041 4	317,057 6
CLEVELAND DISTRICT, via STOCKTON and DARLINGTON RAILWAY.	Darlington district - Stockton " -	345,329 16 4,498,286 0	4,843,615 16
ULVERSTONE	Newcastle district - Darlington " - Stockton " - Hull " -	1,450 0 472 2 8,967 3 8 2	10,897 7
SOUTH	Whitby district - Newcastle " - Darlington " - Stockton " - Hull " - Sundry places -	602 14 10,817 14 10,051 0 8,398 17 2,719 2 3,356 4	35,945 11
	Carried forward -		5,355,711 5

Durham iron ore record (p.64) in 1877, pub 1878

64

IRON ORE RETURNS, 1877.

From	To	Weight to each District.	Total Weight.
		Tons. cwt.	Tons. cwt.
	Brought forward -		5,355,711 5
WHITEHAVEN	Newcastle district - Darlington " - Stockton " -	13 17 7,337 18 58,736 0	46,087 15
SUNDRY PLACES	Newcastle district - Darlington " - Stockton " - Sundry places -	35 16 198 17 3,817 2 4,258 1	8,309 16
IMPORTED	Newcastle district - Darlington " - Stockton " - Sundry places -	38,102 2 32,880 13 44,538 17 2,191 7	137,712 19
	Total -		5,547,821 15

No.	District or Mine.	Character of Ore.	Quantities.	Value.
			Tons. cwt.	£ s. d.
	WEARDALE.			
1	Red Vein	Spathose and Silicious Hematite.	13,733 16	30,806 8 0
2	West Slitt	Ditto	9,357 2	
3	Rowantree A.	Ditto	3,720 13	
4	Levelgate	Ditto	4,907 3	
5	Slitt Pasture (Quarry)	Ditto	3,775 17	
6	Queensbury (ditto)	Ditto	15,188 18	
7	Rowantree B. (ditto)	Ditto	520 18	
8	Foulwood	Ditto	139 18	
	Total of WEARDALE		51,344 5	30,806 8 0
	WESTMORELAND.			
1	Longrigg	Hæmatite	8,000 0	4,800 0 0
	NORTH WALES.			
1	Bodfary (Flint)	Ditto	498 0	194 2 0
	SOUTH WALES.			
1	Bute, Llantrissant	Brown Hæmatite	7,581 0	3,032 8 0
2	Garth	Ditto	9,861 0	3,821 2 0
3	Mwyndy	Ditto	49,084 0	32,618 6 0
4	Llwynsaer	Ditto	10,794 0	
	Total of SOUTH WALES		77,320 0	39,471 16 0

## Weardale Iron Mines at work in 1877, pub 1878

180

IRON MINES, 1877.

No.	Name of Mine.	Situation.	Name of Proprietor or Company.	Name of Manager or Agent.
40	Mowbray, 1 Pit	Frizington	Mowbray Iron Ore Co. ( <i>Limited</i> ).	William Peile.
41	Moor Row	Moor Row, Whitehaven.	Moor Row Mining Co.	Wm. Burnyeat, junr.
42	New Parkside	Whitehaven	Sherwen and Co.	Samuel Sherwen.
43	Parkside, 7 Pits	Ditto	The Parkside Iron Mining Co.	George Scoular.
44	Saller Hall	Cleator Moor	J. Dixon and Co.	—
45	Scaelands	Ditto	Scaelands Mining Co.	Wm. Miller.
46	Steel End	Ditto	Steel End Mining Co.	John Hall.
47	Walsh	Ditto	Messrs. Lindows	Barns Lindow.
48	Waterblean, 1 Pit	Green Roads, Millom	G. J. Eveson	Ezekiel Dawson.
49	Winder	Millom	Cumberland Iron Mining and Smelting Co. ( <i>Limited</i> ).	Thomas Massicks.
50	Yeathouse	Whitehaven	Yeathouse Mining Co.	Isaac Gould.

### WESTMORELAND.

*H.M. Inspector, THOMAS BELL, DURHAM.*

1	Longrigg	Hartley	Edon Valley Lead and Iron Mining Co.	—
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### DURHAM AND NORTHUMBERLAND.

*H.M. Inspector, THOMAS BELL, DURHAM.*

1	Killhope	Weardale	Weardale Iron and Coal Co.	J. R. Crooks.
2	North Groove Rake	Ditto	Ditto	Ditto.
3	South Groove ditto	Ditto	Ditto	Ditto.
4	Levelgate	Ditto	Ditto	Ditto.
5	Queensbury	Ditto	Ditto	Ditto.
6	Slitt Pasture	Ditto	Ditto	Ditto.
7	Rowan Tree, A.	Ditto	Ditto	Ditto.
8	Ditto, B.	Ditto	Ditto	Ditto.
9	West Slitt	Ditto	Ditto	Ditto.
10	North Grane	Ditto	Ditto	Ditto.
11	Stanhope Burn or Redvein.	Ditto	Ditto	Ditto.
12	Red Vein	Ditto	Ditto	Ditto.
13	Foulwood	Ditto	Ditto	Ditto.

### MONMOUTHSHIRE.

1	Blaenavon	Blaenavon	Blaenavon Iron and Steel Co. ( <i>Limited</i> ).	Ed. P. Martin.
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### WALES.

#### GLAMORGANSHIRE.

*H.M. Inspector, T. E. WALES, SWANSEA.*

1	Bute Hematite	Llantrissant	Dowlais Iron Co.	John Powell.
2	Mwyndy	Ditto	Mwyndy Iron Ore Co. ( <i>Limited</i> ).	William Fievan.
3	Llanharry	Ditto	Trimsaran Coal and Iron Co.	T. Dennis Rock.
4	Rudry	Ditto	Rudry Iron Ore Co.	—
5	Melyn Griffith	Cardiff	T. W. Booker & Co.	—
6	Garth	Ditto	T. W. Booker and Co. ( <i>Limited</i> ).	E. D. Howell.

#### NORTH WALES.

*H.M. Inspector, T. F. EVANS, AMLWCH, ANGLESEA.*

1	Owin Mountain	Flint	B. Anderson and Co.	George Harrison.
2	Poelchre	Rhyl	Flintshire Hematite Co. ( <i>Limited</i> ).	—
3	Henfryn	Newmarket, Rhyl	B. Anderson and Co.	Geo. Henry Harrison.
4	Nant Ucha	Abergele	Stock, Gamble, and Thornburn.	Johnstone Dazell.
5	Bodfary	Bodfary	Ed. Wm. Gee and Thomas Gee.	Ed. W. Gee.

## Mineral Statistics for 1878, pub 1879

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1879.

[Price Two Shillings.]

## Weardale blast furnaces in 1878, pub 1879

IRON MANUFACTURE RETURNS, 1878.

75

DETAILS of BLAST FURNACES in Blast, and of the MAKE of PIG IRON  
in the Year 1878.

### ENGLAND.

No.	Name of Works.	Owners.	Furnaces built.	Furnaces in blast.	Pig Iron made.  Tons.
<b>NORTHUMBERLAND :</b>					
1	Elswick, <i>Newcastle-on-Tyne.</i>	Sir W. G. Armstrong & Co.	2	1	
2	Walker, <i>Newcastle-on-Tyne.</i>	Bell Brothers ( <i>Limited</i> ) -	2	0	
Total of NORTHUMBERLAND			4	1	
<b>DURHAM :</b>					
1	Carlton, <i>Stockton-on-Tees.</i>	The Carlton Iron Co. ( <i>Lim.</i> )	3	2	
2	Port Clarence, <i>Middlesbrough-on-Tees.</i>	Bell Brothers ( <i>Limited</i> ) -	12	10*	
3	Consett, <i>Durham</i> -	Consett Iron Co. ( <i>Limited</i> ) -	6	4	
4	Ferry Hill -	Rosedale and Ferry Hill Iron Company ( <i>Limited</i> ). Palmer's Shipbuilding and Iron Company ( <i>Limited</i> ). George Wythes and Co. -	10	5†	
5	Jarrow-on-Tyne -	Norton Iron Co. ( <i>Limited</i> )	3	2	
6	Middleton, <i>Darlington</i>		4	0	
7	Norton, <i>Stockton-on-Tees.</i>		6	0	
8	Vane and Seaham -	Watson, Kipling, & Co. ( <i>Lim.</i> )	2	0	
9	South Durham, <i>Darlington.</i>	South Durham Iron Company ( <i>Limited</i> ). Weardale Iron and Coal Company ( <i>Limited</i> ). Weardale Iron and Coal Co. ( <i>Limited</i> ). Bell Brothers ( <i>Limited</i> ) -	3	0	
10	Towlaw, <i>Darlington</i>		4	2	
11	Tudhoe, <i>Spennymoor</i>		2	0	
12	Wear, <i>Washington</i> -	West Hartlepool Iron Co. ( <i>Limited</i> ).‡	1	0	
13	West Hartlepool -		3	0	
14	Witton Park, <i>Bishop Auckland.</i>	Bolekow, Vaughan, and Co. ( <i>Limited</i> ).	6	4	
15	Stockton, North Shore	Stockton Iron Furnace Co. -	3	0	
16	Tees Bridge, <i>Stockton</i>	Tees Bridge Iron Co. ( <i>Lim.</i> )	3	3	
Total of DURHAM and NORTHUMBERLAND - }			71	32	660,328
Tons.					
Coal returned as used in the } Manufacture of Pig Iron - } <b>1,386,601</b>					

\* Ten furnaces from January to March, and eight from March to December.  
† Five furnaces from January to June, four furnaces from July to October, and three furnaces during November and December.  
‡ In liquidation.

## Weardale Bessemer Converters in 1878, pub 1879

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IRON MANUFACTURE RETURNS, 1878.

LIST OF WORKS having BESSEMER CONVERTERS in GREAT  
BRITAIN in 1878.

No.	Name and Situation of Works.	Number of Converters.	Capacity of Converters.  Tons. Cwt.
1	Henry Bessemer and Co., Limited, Sheffield -	2	3 0
		2	5 0
2	Bolkow, Vaughan, and Co., <i>Limited</i> - -	4	8 0
3	John Brown and Co., <i>Limited</i> , Sheffield -	4	7 10
		2	10 0
4	Sheffield Steel and Iron Works, Attercliffe, near Sheffield. Brown, Bayley, and Dixon, <i>Limited</i> -	2	4 0
		4	8 0
5	Charles Cammell and Co., <i>Limited</i> , Sheffield, <i>Cyclops</i> -	4	4 0
	„ „ <i>Yorkshire</i> -	2	5 0
		2	7 0
6	Weardale Iron Co., Tudhoe, Ferryhill - -	2	2 10
7	The Glasgow Bessemer Steel Co., <i>Limited</i> , Atlas Works, Glasgow - - -	2	3 0
8	Samuel Fox and Co., Stockbridge Works, Sheffield -	2	5 0
9	Lloyds, Foster, and Co., Old Park, Wednesbury -	4	3 0
10	Bolton Iron and Steel Co., Bolton - -	4	6 0
11	London and North Western Railway, Crewe -	2	3 0
12	Manchester, Sheffield, and Lincolnshire Railway Co., Gorton Works, near Manchester -	2	3 10
13	Mersey Steel and Iron Works, Liverpool -	10	5 0
14	Manchester Steel and Railway Plant Co., Gibraltar Works, Newton Heath, Manchester - -	4	3 0
15	Barrow Haematite Steel Co., Barrow - -	7	8 0
16	The Dowlais Iron Co., Dowlais - -	2	5 0
		2	6 0
		2	7 10
17	Ebbw Vale Co., Ebbw Vale - - - -	4	6 0
		2	8 0
18	West Cumberland Iron and Steel Co., Workington -	2	8 0
		2	6 0
19	Phoenix Bessemer Steel Works, Rotherham. Steel, Tozer, and Hampton, <i>Limited</i> - -	2	9 0
		2	6 0
		2	2 0
20	Carnforth Haematite Iron Co., <i>Limited</i> - -	2	6 0
21	Patent Shaft and Axletree Co., Wednesbury -	4	3 0
22	The Moss Bay Haematite Iron and Steel Co., Workington - - - -	2	7 0
23	Rhymney Iron Co., <i>Limited</i> , Rhymney - -	3	7 0
24	Blaenavon Iron and Steel Co., Blaenavon -	2	8 0

Durham iron ore record (p.66) in 1878, pub 1879

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IRON ORE RETURNS, 1878.

RAILWAY DISTRIBUTION.

STATEMENT of IRON ORE conveyed over the NORTH-EASTERN RAILWAY in the Year 1878.

From	To	Weight to each District.	Total Weight.
		Tons. cwt.	Tons. cwt.
NORTHUMBERLAND, and DISTRICT OF NEWCASTLE and CARLISLE RAILWAY.	Darlington district	23,999 1	23,999 1
NEWCASTLE DISTRICT	Newcastle district	11,054 11	11,292 15
	Darlington "	26 1	
	Stockton "	7 0	
	Whitby "	205 3	
DARLINGTON DISTRICT	Darlington district	13,561 7	13,561 7
STOCKTON DISTRICT	Darlington district	60,052 15	106,999 13
	Stockton "	46,946 18	
CLEVELAND DISTRICT, via NORTH YORKSHIRE and CLEVELAND RAILWAY.	Darlington district	163,366 8	198,402 0
	Stockton "	31,993 19	
	Whitby "	3,041 13	
CLEVELAND DISTRICT, via STOCKTON and DARLINGTON RAILWAY.	Darlington district	174,304 2	4,289,449 1
	Stockton "	4,063,948 6	
	Hull "	1,196 13	
ULVERSTONE	Newcastle district	1,201 3	19,992 4
	Darlington "	2,096 18	
	Stockton "	16,694 3	
SOUTH	Newcastle district	22,581 8	47,948 7
	Darlington "	9,484 14	
	Stockton "	8,359 6	
	Whitby "	2,498 18	
	Sundry places	4,924 1	
	Carried forward		4,661,544 8

Durham iron ore record (p.67) in 1878, pub 1879

IRON ORE RETURNS, 1878.

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From	To	Weight to each District.	Total Weight.
		Tons. cwt.	Tons. cwt.
	Brought forward	- - -	4,661,544 8
WHITEHAVEN	Darlington district	317 14	37,896 13
	Stockton "	37,578 19	
SUNDRY PLACES	Darlington district	7,962 13	13,392 9
	Stockton "	5,429 16	
IMPORTED	Newcastle district	97,073 10	286,614 19
	Darlington "	53,045 2	
	Stockton "	131,626 3	
	Sundry places	4,870 4	
	Total	- - -	4,999,448 9

No.	District or Mine.	Character of Ore.	Quantities.	Value.
			Tons. cwt.	£ s. d.
DURHAM AND NORTHUMBERLAND.				
WEARDALE.				
1	Red Vein	Spathose and Silicious Hæmatite.	35,619 0	21,371 0 0
2	West Slit	Ditto		
3	Rowantree A.	Ditto		
4	Level Gate	Ditto		
5	Slit Pasture (Quarry)	Ditto		
6	Queensbury (ditto)	Ditto		
7	Rowan Tree B. (ditto)	Ditto		
	Total of WEARDALE		35,619 0	21,371 0 0
NORTH WALES.				
1	Bodfari (Flint)	Hæmatite	378 0	198 9 0
SOUTH WALES.				
1	Bute, Llantrissant	Brown Hæmatite	8,375 0	3,350 0 0
2	Garth	Ditto	7,828 0	3,131 4 0
3	Mwyndy	Ditto	30,541 0	14,506 19 0
4	Llwynsær	Ditto	1,999 0	948 2 0
5	Trecastle (Llanharry)	Ditto	7,896 0	4,737 12 0
	Total of SOUTH WALES		56,639 0	26,673 17 0

E 2

## Weardale Iron Mines at work in 1878, pub 1879

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IRON MINES, 1878.

No.	Name of Mine.	Situation.	Name of Proprietor or Company.	Name of Manager or Agent.
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### DURHAM AND NORTHUMBERLAND.

*H.M. Inspector, THOMAS BELL, DURHAM.*

1	Level Gate	Weardale	Weardale Iron and Coal Co.	J. R. Crone.
2	Rowan Tree, A. (Quarry)	Ditto	Ditto	Ditto.
3	Ditto. B. do.	Ditto	Ditto	Ditto.
4	Queensbury do.	Ditto	Ditto	Ditto.
5	Slitt Pasture do.	Ditto	Ditto	Ditto.

### WALES.

#### GLAMORGANSHIRE.

*H.M. Inspector, T. E. WALES, SWANSEA.*

1	Bute Hematite	Llantrissant	Dowlais Iron Co.	John Powell.
2	Mwyndy	Ditto	Mwyndy Iron Ore Co. (Limited).	William Vivian.
3	Trecastle, Llanharry	Ditto	Trimsaran Coal and Iron Co.	T. Dennis Rock.
4	Melyn Griffith	Cardiff	T. U. Booker & Co.	---
5	Garth	Ditto	T. U. Booker and Co. (Limited).	E. D. Howell.

#### NORTH WALES.

*H.M. Inspector, T. F. EVANS, AMLWCH, ANGLESEA.*

1	Cwm Mountain	Flint	B. Anderson and Co.	George Harrison.
2	Henfryn	Newmarket, Rhyl	B. Anderson and Co.	Geo. Henry Harrison.
3	Bodfari	Bodfari	Ed. Wm. Gee and Thomas Gee.	Ed. W. Gee.

### ISLE OF MAN.

*H.M. Inspector, T. F. EVANS, AMLWCH, ANGLESEA.*

1	Maughold Dhyrnane	North-east coast	Rowe & Beckwith	R. Rowe.
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### IRELAND.

*H.M. Inspector, JOSEPH DICKINSON, MANCHESTER.*

#### ANTRIM.

1	Ballylaggin	Coleraine	Portrush Mining Co.	---
2	Broughshane	Ballymena	Antrim Iron Ore Co., Limited.	C. H. Williams.
3	Cargan	Ditto	Ditto	Ditto.
4	Glenarm	Glenarm	Ditto	Ditto.
5	Rathkenny	Ballymena	Ditto	Ditto.
6	Glenariff	Cushendall	Glenariff Iron Ore and Harbour Co., Limited.	J. J. Gardiner. John Dixon.
7	Clocheor	Ballymena	Glenariff Iron Ore Co.	---

Mineral Statistics for 1879, pub 1880  
from <http://pubs.bgs.ac.uk/publications.html?pubID=B02476>

## MEMOIRS

OF THE

GEOLOGICAL SURVEY OF GREAT BRITAIN

AND OF THE

MUSEUM OF PRACTICAL GEOLOGY.

## MINERAL STATISTICS

OF THE

UNITED KINGDOM OF GREAT BRITAIN  
AND IRELAND,

FOR THE YEAR 1879.

WITH AN APPENDIX.

BY ROBERT HUNT, F.R.S.,  
KEEPER OF MINING RECORDS.

PUBLISHED BY ORDER OF THE LORDS COMMISSIONERS OF  
HER MAJESTY'S TREASURY.

LONDON:

PRINTED FOR HER MAJESTY'S STATIONERY OFFICE:

PUBLISHED BY

LONGMANS, GREEN, & CO.;

AND BY

EDWARD STANFORD, 55, CHARING CROSS, S.W.

1880.

[Price Two Shillings.]

### Weardale blast furnaces in 1879, pub 1880

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IRON MANUFACTURE RETURNS, 1879.

DETAILS of BLAST FURNACES in Blast, and of the MAKE of PIG IRON in the Year 1879.

#### ENGLAND.

No.	Name of Works.	Owners.	Furnaces built.	Furnaces in blast.	Pig Iron made. Tons.
<b>NORTHUMBERLAND :</b>					
1	Elswick, <i>Newcastle-on-Tyne.</i>	Sir W. G. Armstrong & Co.	2	2*	
2	Walker, <i>Newcastle-on-Tyne.</i>	Bell Brothers ( <i>Limited</i> ) -	2	0	
Total of NORTHUMBERLAND			4	2	
<b>DURHAM :</b>					
1	Carlton, <i>Stockton-on-Tees.</i>	The Carlton Iron Co. ( <i>Lim.</i> )	3	2	
2	Port Clarence, <i>Middlesbro'-on-Tees.</i>	Bell Brothers ( <i>Limited</i> ) -	12	12†	
3	Consett, <i>Durham</i> -	Consett Iron Co. ( <i>Limited</i> ) -	6	4‡	
4	Ferry Hill -	Rosedale and Ferry Hill Iron Company ( <i>Limited</i> ).	10	3§	
5	Jarrow-on-Tyne -	Palmer's Shipbuilding and Iron Company ( <i>Limited</i> ).	3	2	
6	Middleton, <i>Darlington</i>	George Wythes and Co. -	4	0	
7	Norton, <i>Stockton-on-Tees.</i>	Norton Iron Co. ( <i>Limited</i> )	6	0	
8	Vane and Seaham -	Watson, Kipling, & Co. ( <i>Lim.</i> )	2	0	
9	South Durham, <i>Darlington.</i>	South Durham Iron Company ( <i>Limited</i> ).	3	0¶	
10	Towlaw, <i>Darlington</i>	Weardale Iron and Coal Company ( <i>Limited</i> ).	4	1**	
11	Tudhoe, <i>Spenny Moor</i>	Weardale Iron and Coal Co. ( <i>Limited</i> ).	2	0	
12	Wear, <i>Washington</i> -	Bell Brothers ( <i>Limited</i> ) -	1	0	
13	West Hartlepool -	West Hartlepool Iron Co. ( <i>Limited</i> ).¶	3	0	
14	Witton Park, <i>Bishop Auckland.</i>	Bolckow, Vaughan, and Co. ( <i>Limited</i> ).	6	4	
15	Stockton, North Shore	Stockton Iron Furnace Co. -	3	0	
16	Tees Bridge, <i>Stockton</i>	Tees Bridge Iron Co. ( <i>Lim.</i> )	3	3	
Total of DURHAM and NORTHUMBERLAND - }			71	31	557,255
Coal returned as used in the Manufacture of Pig Iron - }			1,161,587		

\* One furnace for six weeks, and one furnace building.  
 † Two furnaces for four months, and two furnaces for two months.  
 ‡ One furnace building.  
 § Three furnaces to 15th February, and two furnaces to 31st March. Company in liquidation.  
 ¶ Another furnace for three months. ¶ Company in liquidation.  
 || Another furnace for six and a half months.  
 \*\* One furnace for six and a half months.

### Weardale Bessemer Converters in 1879, pub 1880

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IRON MANUFACTURE RETURNS, 1879.

LIST OF WORKS having BESSEMER CONVERTERS in GREAT BRITAIN in 1879.

No.	Name and Situation of Works.	Number of Converters.	Capacity of Converters. Tons. Cwt.
1	*Henry Bessemer and Co., Limited, Sheffield -	{ 2 2	3 0 5 0
2	*Bolckow, Vaughan, and Co., <i>Limited</i> - -	4	8 0
3	*John Brown and Co., <i>Limited</i> , Sheffield -	{ 4 2	7 10 10 0
4	Sheffield Steel and Iron Works, Attercliffe, near Sheffield. Brown, Bayley, and Dixon, <i>Limited</i>	{ 2 4	4 0 8 0
5	*Charles Cammell & Co., <i>Limited</i> , Sheffield, <i>Cyclops</i>	4	4 0
*	" " " Yorkshire -	{ 2 2	5 0 7 0
6	Weardale Iron Co., Tudhoe, Ferryhill -	2	2 10
7	The Glasgow Bessemer Steel Co., <i>Limited</i> , Atlas Works, Glasgow -	2	3 0
8	*Samuel Fox and Co., Stockbridge Works, Sheffield	2	5 0
9	Lloyds, Foster, and Co., Old Park, Wednesbury	4	3 0
10	*Bolton Iron and Steel Co., <i>Limited</i> , Bolton -	4	5 0
11	London and North-western Railway, Crewe -	2	3 0
12	*Manchester, Sheffield, and Lincolnshire Railway Co., Gorton Works, near Manchester -	4	3 10
13	*Mersey Steel and Iron Works, Toxteth Park, Liverpool -	10	5 0
14	Manchester Steel and Railway Plant Co., Gibraltar Works, Newton Heath, Manchester -	4	3 0
15	*Barrow Hæmatite Steel Co., Barrow - -	8	7 0
16	The Dowlais Iron Co., Dowlais - -	{ 2 2 2	5 0 6 0 7 10
17	Ebbw Vale Co., Ebbw Vale - - - -	{ 4 2	8 0 10 0
18	West Cumberland Iron and Steel Co., Workington -	{ 2 2	8 0 6 0
19	*Phoenix Bessemer Steel Works, The Ickles, near Sheffield, Steel, Tozer, and Hampton, <i>Limited</i>	{ 2 2 2	8 0 6 0 2 0
20	Carnforth Hæmatite Iron Co., <i>Limited</i> - -	2	6 0
21	*Patent Shaft and Axletree Co., Wednesbury -	4	3 0
22	†Erimus Steel Works, Middlesborough, Charles Emile Muller - - - -	2	6 0
23	‡Darlington Iron Co., Darlington - -	2	-
24	The Moss Bay Hæmatite Iron and Steel Co., Workington - - - -	3	8 0
25	*Rhydney Iron Co., <i>Limited</i> , Rhydney - -	3	7 0
26	*Blaenavon Iron and Steel Co., Blaenavon -	2	8 0
27	The Standard Iron and Steel Co. - -	2	-

\* Two 6-ton Converters, by The Thomas-Gilchrist process in course of erection.  
 † Works standing in 1879. ‡ Commenced operation in June 1880.

Durham iron ore record (p.66) in 1879, pub 1880

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IRON ORE RETURNS, 1879.

RAILWAY DISTRIBUTION.

STATEMENT of IRON ORE conveyed over the NORTH-EASTERN RAILWAY in the Year 1879.

From	To	Weight to each District.		Total Weight.	
		Tons.	cwts.	Tons.	cwts.
NORTHUMBERLAND, and DISTRICT of NEWCASTLE and CARLISLE RAILWAY.	Darlington district	8,801	4	8,801	4
NEWCASTLE DISTRICT	Darlington district	1,601	13	1,856	9
	Stockton "	92	16		
	Whitby "	222	0		
DARLINGTON DISTRICT	Darlington district	8,035	16	8,207	5
	Stockton "	171	9		
STOCKTON DISTRICT	Newcastle district	101	1	88,586	10
	Darlington "	31,366	10		
	Stockton "	57,118	19		
CLEVELAND DISTRICT, via NORTH YORKSHIRE and CLEVELAND RAILWAY.	Darlington district	21,533	4	57,680	6
	Stockton "	35,445	4		
	Whitby "	701	18		
CLEVELAND DISTRICT, via STOCKTON and DARLINGTON RAILWAY.	Newcastle district	37,294	13	3,898,412	0
	Darlington "	43,134	7		
	Stockton "	3,707,983	0		
ULVERSTONE	Newcastle district	407	6	2,753	0
	Darlington "	4	12		
	Stockton "	2,341	2		
SOUTH	Newcastle district	6,286	13	53,803	8
	Darlington "	20,510	4		
	Stockton "	27,006	11		
	Carried forward	4,060,100	2		

Durham iron ore record (p.67) in 1879, pub 1880

IRON ORE RETURNS, 1879.

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From	To	Weight to each District.		Total Weight.	
		Tons.	cwts.	Tons.	cwts.
	Brought forward-	-	-	4,060,100	2
WHITEHAVEN	Newcastle district	36	15	8,203	2
	Darlington "	3,463	7		
	Stockton "	4,703	0		
SUNDRY PLACES	Newcastle district	798	1	2,369	1
	Darlington "	15	0		
	Stockton "	1,556	0		
IMPORTED	Newcastle district	73,681	1	119,378	7
	Darlington "	21,154	5		
	Stockton "	15,242	14		
	Sundry places	9,300	7		
	Total	-	-	4,190,050	12

No.	District or Mine.	Character of Ore.	Quantities.	Value.
	WEARDALE.		Tons. cwts.	£ s. d.
1	Red Vein	Spathose and Silicious Hematite.	16,679 0	10,007 0 0
2	West Slitt	Ditto		
3	Rowantree A.	Ditto		
4	Level Gate	Ditto		
5	Slitt Pasture (Quarry)	Ditto		
6	Queensbury (ditto)	Ditto		
7	Rowan Tree B. (ditto)	Ditto		
	Total of WEARDALE		16,679 0	10,007 0 0
	NORTH WALES.			
1	Bodfari (Flint)	Hematite	392 11	166 16 6
	SOUTH WALES.			
1	Bute, Llantrissant	Brown Hematite	985 0	591 0 0
2	Garth	Ditto	6,695 0	4,017 0 0
3	Mwyndy and Llwynsaer	Ditto	25,145 0	15,087 0 0
4	Trecastle (Llanharry)	Ditto	20,986 0	12,591 12 0
	Total of SOUTH WALES		53,811 0	32,286 12 0

## Weardale Iron Mines at work in 1879, pub 1880

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IRON MINES, 1879.

No.	Name of Mine.	Situation.	Name of Proprietor or Company.	Name of Manager or Agent.
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### DURHAM AND NORTHUMBERLAND.

*H.M. Inspector, THOMAS BELL, DURHAM.*

1	Level Gate	- - Weardale	- - Weardale Iron and Coal Co.	J. R. Cronc.
2	Rowan Tree, A.	- - Ditto	- - Ditto	Ditto.
3	Ditto. (Quarry)	- - Ditto	- - Ditto	Ditto.
4	Queensbury	do. - - Ditto	- - Ditto	Ditto.
5	Slitt Pasture	do. - - Ditto	- - Ditto	Ditto.
6	Dirt Pit	- - Etersgill, Middleton	- - Iron Mining Co.	Thomas Greaves.

### WALES.

#### GLAMORGANSHIRE.

*H.M. Inspector, T. E. WALES, SWANSEA.*

1	Bute Haematite	- Llantrissant	- - Dowlais Iron Co.	John Powell.
2	Mwyndy and Llwnsaer	- Ditto	- - Mwyndy Joint Stock Co. (Limited).	William Vivian.
3	Trecastle, Llanharry	- Ditto	- - Trimsaran Coal and Iron Co.	David Evans.
4	Melyn Griffith	- - Cardiff	- - T. W. Booker and Co. (Limited).	E. D. Howell.
5	Garth	- - Ditto	- -	

#### NORTH WALES.

*H.M. Inspector, C. LE NEVE FOSTER, LLANDUDNO.*

1	Cwm Mountain	- Flint	- - A. B. Anderson	George Harrison.
2	Houfryn	- - Newmarket, Rhyl	- - A. B. Anderson	George Harrison.
3	Bodfari	- - Bodfari	- - Ed. Wm. Gee and Thomas Gee.	Ed. W. Gee.
4	Foel Hiradog	- Rhyl	- -	

### ISLE OF MAN.

*H.M. Inspector, C. LE NEVE FOSTER, LLANDUDNO.*

1	Maughold Dhyrnane	- North-east coast	- - Rowe & Beckwith	E. Rowe.
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### IRELAND.

*H.M. Inspector, JOSEPH DICKINSON, MANCHESTER.*

#### ANTRIM.

1	Ballylaggin	- - Coleraine	- - Benj. Townson	Thomas Simmons.
2	Cargan	- - Ballymena	- - Antrim Iron Ore Co. (Limited).	C. H. Williams.
3	Glenarm	- - Glenarm	- - Ditto	Ditto.
4	Bathkenny	- - Ballymena	- - Ditto	Ditto.
5	Glenariff	- - Clogheor	- - Glenariff Iron Ore and Harbour Co. (Limited).	J. J. Gardiner. John Dixon.
6	Clogheor	- - Ballymena	- - Ditto	Ditto.
7	Ballycastle	- - Ballymoney	- - Godden and McDonald	John James.