

Weardale Blast Furnace Statistics for 1850s

This document comprises parts of the Geological Survey Mineral Statistics relating to blast furnaces in Weardale in the 1850s. It includes the blast furnaces at Stanhope, Tow Law and Witton Park, using Mineral Statistics published between 1855 and 1860, with records for 1854 to 1859. For later years see "Weardale Blast Furnace Statistics for 1860s", "Weardale Blast Furnace Statistics for 1870s" and "Weardale Blast Furnace Statistics for 1880s".

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.

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=NB&pageSize=100>

These pages are from "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.

Records of iron ore production and blast furnaces were first produced for 1854, published in 1855.

Prior to the start of this series mining statistics were published in: "Memoirs of the Geological Survey of Great Britain and of the Museum of Practical Geology Volume II part II". This was followed by "Records of the School of Mines and of Science Applied to the Arts Volume 1. Part 4". which had a section entitled "Statistics of the produce of copper, tin, lead and silver from the mines of the United Kingdom, with the exports and imports of these metals for 1848 to 1852 inclusive". These records do not include iron.

Records for 1860 and following years are in 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.

Mineral Statistics for 1854, pub 1855

from <http://pubs.bgs.ac.uk/publications.html?pubID=B02447>

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

MINING RECORDS.

MINERAL STATISTICS OF THE UNITED KINGDOM OF GREAT
BRITAIN AND IRELAND FOR 1853 AND 1854.

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

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

LONDON:
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1855.

Sub-title for 1854, pub 1855

MINERAL STATISTICS

FOR

1853 and 1854;

EMBRACING THE PRODUCE OF

TIN, COPPER, LEAD, AND SILVER,

FOR BOTH YEARS,

OF

IRON; COALS, AND OTHER MINERALS

for 1854,

THE

EXPORTS AND IMPORTS,

THE POPULATION EMPLOYED,

AND A

LIST OF THE COLLIERIES OF THE UNITED KINGDOM.

BY

ROBERT HUNT, F.R.S.,

KEEPER OF MINING RECORDS.

Weardale blast furnaces in 1854, pub 1855

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1854.

COAL AND IRON.

IRON FURNACES IN GREAT BRITAIN IN 1854.

ENGLAND and WALES.

	Name of Works.	Owners.	Furnaces built.	Furnaces in blast.	No. in District in blast.
NORTHUMBERLAND AND DURHAM.					
1	Bedlington -	Bedlington Iron Company	2	2	
2	Birtley -	Birtley Iron Company	3	2	
3	Clarence -	Bell Brothers	3	3	
4	Consett -	Derwent Iron Company	7	5	
5	Crookhall -	Do.	7	6	
6	Darlington -	South Durham Iron Com- pany	2	2	
7	Eston -	Bolchaw and Vaughan	6	6	
8	Do. -	Elwen and Company	2	2	
9	Do. -	B. Samuelson	2	2	
10	Felling -	H.L. Pattinson and Co.	2	2	
11	Hareshaw -	Hareshaw Iron Company	3		
12	Lemington -	Type Iron Company	2	2	
13	Middlesbro' -	Bolchaw, Vaughan, and Company	3	3	
14	Do. -	Gilkes, Wilson, Leatham, and Company	4	4	
15	Ormsby -	Cochrane and Company	4	2	
16	Stanhope -	Weardale Iron Company	1		
17	Towlaw -	Do.	6	4	
18	Stockton -	Stockton Iron Company*	3		
19	Shotley Bridge, Bradley	Jno. Richardson and Co.	4	4	
20	Walker -	Losh, Wilson, and Bell	5	4	
21	Wallsend -	J. Carr and Company	2	2	
22	Witton Park -	Bolchaw and Vaughan	4		
23	Wylam -	Bell Brothers	1	1	
			78	59	59
YORKSHIRE.					
1	Beirley -	Hird, Dawson, and Hardy	4	3	
2	Bowling -	Sturge and Company	5	4	
3	Chapel town -	Newton, Chambers, and Co.	2		
4	Elsecar -	Dawes and Company	3	1	
5	Farnley -	Armitage and Company			
6	Glasshouse -				
7	Holmes -	Saml. Beale and Company	2	2	
8	Leather and Co. -				
9	Low Moor -	Hird, Dawson, and Hardy	5	5	
10	Milton -	Dawes and Company	2	2	
11	Parkgate -	Saml. Beale and Company	1	1	
12	Shelf -				
13	Thorncliffe -	Newton, Chambers, and Co.	3	2	
14	Wosbro' Dale -	Field, Cooper, and Co.	1	1	
			28	21	21

* Building.

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1856.

Weardale blast furnaces in 1855, pub 1856

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IRON MANUFACTURE RETURNS.

IRON MANUFACTURE.
ENGLAND.

NORTHUMBERLAND & DURHAM.

The Iron Ores to supply the furnaces in this district are derived principally from the Carboniferous Limestone districts of Weardale and Haydon Bridge, from the western edge of the Durham and Northumberland Coal field, and from the Lias formations at Cleveland. (See *The Iron of Great Britain, Part I. Memoirs of the Geological Survey, General Description by W.W. Smyth, M.A.*) Iron Ores are also brought from Scotland, the West Riding of Yorkshire, and Cumberland.

BLAST FURNACES.

No.	Names of Works.	Owners.	No of Furnaces.	Furnaces in blast.	Furnaces in blast in District.
NORTHUMBERLAND.					
1	Bedlington - -	Bedlington Iron Company -	2	0	
2	Hareshaw - -	Hareshaw Iron Company -	3	0	
3	Leamington -	Tyne Iron Company -	2	2	
4	Walker - -	Losh, Wilson & Bell -	5	4	
5	Walsend or Tyne Main - -	J. Carr & Company - -	2	2	
6	Wylam - -	Bell, Brothers - -	1	1	9
DURHAM.					
1	Auckland - -	- -	4*	0	
2	Birtley - -	Birtley Iron Company -	3	2	
3	Clarence - -	Bell Brothers - -	3	3	
4	Consett - -	Derwent Iron Company -	7	6	
5	Crook Hall - -	Do - -	7	6	
6	Darlington -	H. Pease & Company -	2	2	
7	Felling - -	H. L. Pattinson & Co. -	2	2	
8	Norton - -	Warners, Lucas and Barrett	2*	0	
9	Shotley Bridge or Bradley - -	Jno. Richardson and Co. -	4	4	
10	Stanhope - -	Weardale Iron Company -	1	0	
11	Stockton - -	Holdsworth, Bennington, Byers, & Co. -	3	1	
12	Towlaw - -	Weardale Iron Company -	5	4	
13	Witton Park & Etherley	Bolchew & Vaughan -	4	4	34

* Furnaces building in 1855.

Durham iron ore record (p.37) in 1855, pub 1856

IRON ORE RETURNS.

37

No.	COUNTY.	District or Mine.	Character of Iron Ore.	Quantity in Tons.
		Brought forward	- -	3,062,189
8	DERBYSHIRE.	Sundry Iron Beds -	Argillaceous Car- bonate, &c.	409,500
9	YORKSHIRE. West Riding. }	Ditto - - -	Ditto - -	255,000
	YORKSHIRE. North Riding. }	Valley of the Esk and Pickering.	Carbonate and Oxide	55,000
		Coast N. of Whitby -	Carbonate - -	50,000
		Cleveland District -	Ditto - -	865,360
10	NORTHUMBERLAND AND DURHAM.	Weardale } Alston } Haydon Bridge } Tyne District }	Argillaceous, Carbonate, &c.	185,000
11	CUMBERLAND.	Whitehaven - -	Hæmatite - -	200,788
12	LANCASHIRE.	Ulverstone -	Ditto - -	336,828
13	NORTH WALES.	Carnarvonshire } Flintshire }	Ditto - -	1,320
		Denbighshire - -	Argillaceous Car- bonate - -	64,500
14	SOUTH WALES.	Anthracite District -	Argillaceous Car- bonate - -	160,500
15	Do.	Bituminous District -	Argillaceous Car- bonate - -	1,505,000
16	SCOTLAND.	Coal Measure Districts generally.	Argillaceous Car- bonates and Black Band - -	2,400,000
17	IRELAND.	Wicklow - -	Hæmatite - - -	576
18	ISLE OF MAN.	Douglas, &c. - -	Hæmatite - -	2,240
				9,553,741

Mineral Statistics for 1856, pub 1857

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1857.

Weardale blast furnaces in 1856, pub 1857

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IRON MANUFACTURE RETURNS.

DURHAM—continued.

No.	Names of Works.	Owners.	Furnaces built.	Furnaces in blast.	Furnaces in blast in District.
		Brought forward -	45	32	8
8	Shotley Bridge or Bradley - -	Jno. Richardson & Co. -	4	4	
9	Stanhope - -	Weardale Iron Company -	1	0	
10	Stockton - -	Holdsworth, Bennington, Byers, & Co. -	3	3	
11	Towlaw - -	Weardale Iron Company -	5	4	
12	Washington - -	Washington Iron Company -	1	1	
13	Witton Park & Etherley - -	Bolchow & Vaughan -	4	4	
14	Wear - - -	Bells, Hawks & Company -	1*	0	40
		Total - -	46	40	48

* Furnace building.

PIG IRON.

Total produce of NORTHUMBERLAND	-	62,120	Tons.
" " DURHAM	-	269,250	"
Total	-	331,370	"

YORKSHIRE.

The NORTH RIDING OF CLEVELAND DISTRICT.

TOTAL NUMBER OF FURNACES IN BLAST, 23.

No.	Names of Works.	Owners.	Furnaces built.	Furnaces in blast.	Furnaces in blast in District.
1	Cleveland - -	T. L. Elwon and Company -	3	3	
2	Eston - -	Bolchow and Vaughan -	6	6	
3	Middlesbro' - -	Ditto - -	3	3	
4	Ormesby - -	Cochrane and Company -	4	4	
5	South Bank - -	B. Samuelson and Company -	3	3	
6	Tees - -	Gilkes, Wilson and Co. -	4	4	
7*	Jarrow - -	Palmer and Co. -	2	0	
8*	Wreck Hill - -	Victoria Iron Works Co. -	2	0	
9*	Tees Side, or Middlesbro', New - -	Snowdon and Hopkins -	2	0	
10*	Beckhole - -	Whitby Iron Company -	2	0	
		Total - -	31	23	23

* Neither of these Companies have their works completed.

Durham iron ore record (p.49) in 1856, pub 1857

IRON ORE RETURNS.

49

No.	COUNTY.	District or Mine.	Character of Iron Ore.	Quantity in Tons.
		Brought forward - -	-	270,228
10	WARWICKSHIRE.	Charity Works -	Argillaceous Carbonate - Car-	48,000
		Hawksbury - -		
		Victoria Colliery - -		
		Sow Works, &c. &c. -		
11	STAFFORDSHIRE, NORTH.	Frogghall, &c. -	Carbonate, &c. -	520,000
12	STAFFORDSHIRE, SOUTH, and WORCESTERSHIRE.	Coal Measures generally	Argillaceous Carbonate	2,205,000
13	SHROPSHIRE.	Ditto - -	Ditto - -	335,700
14	DERBYSHIRE.	Sundry Iron Beds -	Ditto - -	392,400
15	YORKSHIRE, West Riding.	Leeds District, 42,600 } Sundry do. 199,500 }	Ditto - -	242,100
	YORKSHIRE, North Riding.	Cleveland District -	Carbonate and Oxide	1,093,253
		Esk Valley - -	Ditto - -	48,000
		Coast of Cleveland & sundry Quantities -	Ditto - -	56,164
16	NORTHUMBERLAND AND DURHAM.	Weardale - -	Argillaceous	495,500
		Alston - -	Carbonate	
		Haydon Bridge -	& Spathose	
		Coal Measures of the District - -	Ore - -	
17	CUMBERLAND.	Whitehaven - -	Hæmatite - -	259,167
		Alston Moor - -	Do. and Hydrated Oxide - -	8,089
18	LANCASHIRE.	Ulverstone - -	Hæmatite - -	464,853
19	NORTH WALES.	Carnarvonshire } Flintshire }	Ditto - -	2,550
		Denbighshire - -	Argillaceous Carbonate - Car-	65,914
20	SOUTH WALES.	Anthracite Districts -	Ditto - -	156,700
21	Do.	Bituminous District -	Ditto - -	1,628,000
22	SCOTLAND.	All the districts - -	Ditto, &c. -	2,201,250
23	IRELAND.	Ballymurtagh - -	Oxide of Iron - -	441
24	ISLE OF MAN.	Douglas, &c. - -	Hæmatite - -	NIL.
		Total Iron Ore Produce - -	-	10,483,309

D

Durham iron ore record (p.60) in 1856, pub 1857

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IRON MANUFACTURE RETURNS.

BLAST FURNACES.

TOTAL NUMBER OF FURNACES IN BLAST, 3.

No.	Names of Works.	Owners.	Furnaces built.	Furnaces in blast.	Furnaces in blast in District.
1	Cleator Moor - -	Whitehaven Haematite Iron Company.	4	3	
2	Duddon - -	Harrison, Ainslie & Co. -	1	0	
3	Seaton* - -	S. W. Smith & Co. - -	2	0	
4	Harrington* - -	C. H. Plevins - -	1	0	
	Total -		8	3	3

* Works not completed.

PIG IRON.

The total produce of Pig Iron from the Haematite Ore Furnaces of Lancashire and Cumberland was - 25,530 Tons.

STATEMENT of IRON ORE conveyed over the NORTH EASTERN RAILWAY during the Year 1856.

From	To	Weight to each District.	Total Weight.
		Tons. Cwts.	Tons. Cwts.
Northumberland, and District of Newcastle and Carlisle Railway.	Newcastle District, viz.—		
	Wallsend - 867 10		
	Shotley - 9,066 13		
	Birtley - 585 0	- -	10,519 3
Whitby District - -	Newcastle District, viz.—		
	Conside - 608 5	608 5	
Ditto - -	Darlington District, viz.—		
	Darlington - 101 9	101 9	
Ditto - -	Stockton District, viz.—		
	Stockton - 104 18		
	Middlesbro' - 781 1	885 19	
Ditto - -	Whitby District, viz.—		
	Whitby - 56,352 19	56,352 19	
	Carried forward -	- -	10,519 3

Durham iron ore record (p.61) in 1856, pub 1857

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IRON MANUFACTURE RETURNS.

STATEMENT of IRON ORE, &c.—continued.

From	To	Weight to each District.	Total Weight.
		Tons. Cwts.	Tons. Cwts.
	Brought forward -	- -	10,519 3
Whitby District—cont. -	Midland District, viz.—		
	Liversedge - 322 1		
	Masbro' - 61 4		
	Great Bridge 50 0	433 5	58,381 17
Cleveland District, via Stockton and Darlington Railway.	Newcastle District, viz.—		
	Washington - 4,297 14		
	Wyland - 8,394 2		
	Felling - 55,355 7	68,047 3	
Ditto - -	Hartlepool District, viz.—		
	Port Clarence 429 0		
	Norton - 8,409 19	8,838 19	
Ditto - -	Stockton District, viz.—		
	Stockton - 67,359 5	67,359 5	144,245 7
Whitehaven Ore - -	Newcastle District, viz.—		
	Wallsend - 1,846 5		
	Consett - 11,828 3		
	Birtly - 1,026 18		
	Shotley - 169 6	14,870 12	
Ditto - -	Darlington District, viz.—		
	Darlington - 1,783 3	1,783 3	
Ditto - -	Stockton District, viz.—		
	Middlesbro' - 7,524 3		
	Stockton - 1,339 4	8,863 7	25,517 2
Ulverstone Ore, via Morecombe.	Stockton District, viz.—		
	Cargo Fleet - 424 9		
	Middlesbro' - 2,777 8		
	Port Clarence - 465 4		
	Stockton - 19 2		
	Eston Junction 65 4	3,751 7	
Ditto - -	Hartlepool District, viz.—		
	West Hartlepool 125 7	125 7	
	Carried forward -	- -	238,663 9

Durham iron ore record (p.62) in 1856, pub 1857

62

IRON MANUFACTURE RETURNS.

STATEMENT OF IRON ORE, &c.—continued.

From	To	Weight to each District.	Total Weight.
	Tons. Cwts.	Tons. Cwts.	Tons. Cwts.
	Brought forward	- -	238,663 9
Ulverstone Ore, <i>via</i> Morecombe— <i>cont.</i>	Darlington District, viz.—		
	Etherley or Witton Park - 2,297 15		
	Towlaw - - 259 17	2,557 12	6,434 6
	Total quantity conveyed	- -	245,097 15

SHROPSHIRE.

The quantity of Ironstone raised was 335,700 Tons.

BLAST FURNACES.

TOTAL NUMBER OF FURNACES IN BLAST, 27.

No.	Names of Works.	Owners.	Furnaces built.	Furnaces in blast.	Furnaces in blast in District.
1	Castle - -	Coalbrookdale Company -	2	2	
2	Dark Lane - -	B. Botfield - -	2	2	
3	Horsbays - -	Coalbrookdale Company -	3	1	
4	Jerry, The - -	B. Botfield - -	2	1	
5	Ketley - -	The Ketley Company -	2	1	
6	Langley - -	Thomas Hinds & Co. -	1	0	
7	Lawley - -	Coalbrookdale Company -	1	1	
8	Lightmoor - -	Do. - -	2	1	
9	Lodge Wood -	Lilleshall Company -	4	4	
10	Madeley Court -	W. O. Foster - -	3	2	
11	Madeley Wood -	John Anstice - -	3	3	
12	Prior's Lee - -	Lilleshall Company -	4	4	
13	Stirchley Old Park -	B. Botfield - -	4	3	
14	—	T. Holroyd & Co. -	2	2	
	Total - -	- -	35	27	27

PIG IRON.

The total quantity of Iron made was - 109,722 Tons.

Mineral Statistics for 1857, pub 1858

from

https://www.google.co.uk/books/edition/Mineral_Statistics_of_the_United_Kingdom/jrgMAAAAYAAJ

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1858.

Weardale blast furnaces in 1857, pub 1858

IRON MANUFACTURE RETURNS.

61

DURHAM—continued.

No.	Names of Works.	Owners.	Furnaces built.	Furnaces in blast.	Furnaces in blast in District.
		Brought forward -	27	23	
7	Felling -	H. L. Pattinson and Co. -	2	2	
8	Jarrow -	Palmer and Co. -	4*	0	
9	Norton -	Warner, Lucas, and Barrett	3	1	
0	Stanhope -	Weardale Iron Company -	1	0	
11	Stockton -	{ Holdsworth, Bennington, Byers, and Co. - }	3	1	
12	Towlaw -	Weardale Iron Company -	5	4	
13	Washington -	Washington Iron Company -	1	0	
14	{ Witton Park and Etherley - }	Bolckow and Vaughan -	4	4	
15	Wear -	Bells, Hawkes, and Co. -	1	0	
		Total -	51	35	35

PIG IRON.

Total produce of DURHAM - - 284,500 Tons.

YORKSHIRE.

The NORTH RIDING OF CLEVELAND DISTRICT.

TOTAL NUMBER OF FURNACES IN BLAST, 23.

No.	Names of Works.	Owners.	Furnaces built.	Furnaces in blast.	Furnaces in blast in District.
1	Clay Lane -	Elwon and Co. -	2	0	
2	Cleveland -	Bolckow and Vaughan -	3	3	
3	Eston -	Ditto -	6	6	
4	Middlesbro' -	Ditto -	3	3	
5	Ormsby -	Cochrane and Co. -	4	4	
6	South Bank -	B. Samuelson and Co. -	3	3	
7	Tees -	Gilkes, Wilson and Co. -	5	4	
8	Wreck Hill -	Victoria Iron Works Co.† -	2	0	
9	Tees Side -	Snowdon and Hopkins -	2	0	
10	Beckhole -	Whitby Iron Company -	2	0	
			32	23†	23

* Not completed.

† The works destroyed.

‡ In the month of December 1857 seven of these furnaces were put out of blast.

Durham iron ore record (p.59) in 1857, pub 1858

IRON ORE PRODUCE.

59

No.	COUNTY.	District or Mine.	Character of Iron Ore.	Quantity in Tons.
		Brought forward -	-	257,834
9	WARWICKSHIRE.	Sundry Collieries -	Argillaceous Car- bonate -	40,000
10	STAFFORDSHIRE, NORTH.	Froghall -	Hydrated Oxide -	65,781
		Other places -	Argillaceous Car- bonate calcined and uncalcined -	249,081
11	STAFFORDSHIRE, SOUTH.	Coal Measures generally	Ditto -	1,350,000
12	SHROPSHIRE.	Ditto -	Ditto -	320,500
14	DERBYSHIRE.	Sundry Iron Beds -	Ditto -	350,000
13	YORKSHIRE, WEST RIDING.	Coal Measures generally	Ditto -	200,500
15	YORKSHIRE, NORTH RIDING.	Cleveland and Whitby -	Carbonate and Oxide	207,500
16	NORTHUMBERLAND AND DURHAM.	Weardale - } Alston - }	Argillaceous Car- bonate and Spathose, &c. - }	1,414,155
17	CUMBERLAND.	Haydon Bridge, &c. -		500,000
18		Whitehaven -	Hæmatite -	323,812
		Alston Moor -	Do. and Hydrated Oxide -	10,113
19	LANCASHIRE.	Ulverstone -	Hæmatite -	592,390
20	NORTH WALES.	Carnarvonshire, &c. -	Ditto -	80,000
		Flintshire (Gled-com.) -	Ditto -	1,080
		Cwm Mountain -	Ditto -	1,650
		Denbighshire -	Argillaceous Car- bonate -	67,644
21	SOUTH WALES.	Anthracite Districts -	Ditto. -	1,019,941
		Bituminous Do. -	Ditto -	24,000
		Llantrissant -	Hæmatite -	300
		Wenvoe -	Ditto -	2,500,000
22	SCOTLAND.	All the districts	Argillaceous Carbo- nate and Hæmatite -	1,000
23	IRELAND.	Sundry Districts -	Spathose and Hy- drated Oxide -	2,000
		Belfast District -	Black Band -	9,573,281
		Total Iron Ore Produce -	-	

There have been, especially towards the latter end of the year, some large parcels of iron ore imported.

Durham iron ore record (p.63) in 1857, pub 1858

IRON MANUFACTURE RETURNS.

63

STATEMENT of IRON ORE and IRON STONE conveyed over the NORTH EASTERN RAILWAY during the Year 1857.

This statement exhibits in the clearest manner the production and distribution of Iron Ore over every district embraced by the North Eastern Railway.

From	To	Weight to each District	Total Weight.
	Tons. Cwts.	Tons. Cwts.	Tons. Cwts.
NORTHUMBERLAND, and District of NEWCASTLE AND CARLISLE Railway.	Newcastle District, viz.—		
	Shotley Bridge - -	10,316 15	10,316 15
WHITBY District - -	Stockton District, viz.—		
	Middlesbro' - -	1,178 17	
Ditto - -	Newcastle District, viz.—		
	Consett - -	6,399 11	
Ditto - -	Whitby District, viz.—		
	Whitby - -	59,043 6	
Ditto - -	Midland District, viz.—		
	Masbro' - 5,694 2		
	Swinton - 178 12		
	Liversedge - 371 5		
	Elsecar - 787 13		
	Leeds - 265 3		
	Chapelton - 170 4		
	Great Bridge - 5 11		
	Clay Cross - 90 0	7,562 10	74,184 4
CLEVELAND District, vid STOCKTON AND DARLINGTON Railway.	Newcastle District, viz.—		
	Washington - 12,708 2		
	Felling - 41,543 0		
	Wylam - 11,412 14		
	Birtley - 6,654 11	72,318 7	
Ditto - -	Darlington District, viz.—		
	Darlington - -	11 10	
Ditto - -	Stockton District, viz.—		
	Norton - 28,067 7		
	Stockton - 11,133 3	39,200 10	111,530 7
CLEVELAND District, vid NORTH YORKSHIRE and CLEVELAND Railway.	Stockton District, viz.—		
	Stockton - -	12,118 17	12,118 17
	Carried forward - -	- -	208,150 3

Durham iron ore record (p.64) in 1857, pub 1858

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IRON MANUFACTURE RETURNS.

STATEMENT of IRON ORE and IRONSTONE, &c.—continued.

From	To	Weight to each District.	Total Weight.
	Tons. Cwts.	Tons. Cwts.	Tons. Cwts.
	Brought forward - -	- -	208,150 3
NEWCASTLE District -	Newcastle District, viz.—		
	Birtley - 165 0		
	Consett - 377 15*		
	Shotley Bridge 90 0		
	Leadgate depôt 6 0		
	Broomsiding - 3 0		
	Washington - 24 0	665 15	665 15
WHITEHAVEN Ore -	Newcastle District, viz.—		
	Consett - 13,766 11		
	Wallsend - 655 6		
	Birtley - 1,539 8		
	Shotley Bridge 11 12	15,972 17	
Ditto - -	Stockton District, viz.—		
	Stockton - 1,667 13		
	Middlesbro' - 8,340 14	10,008 7	
Ditto - -	Darlington District, viz.—		
	Darlington - -	1,430 9	27,411 13
ULVERSTONE Ore, vid MORECOMBE.	Newcastle District, viz.—		
	Consett - -	1,061 19	
Ditto - -	Hartlepool District, viz.—		
	West Hartlepool - -	185 9	
Ditto - -	Stockton District, viz.—		
	Middlesbro' - 4,300 19		
	Eston - 3,113 1		
	Port Clarence 98 19		
	Norton - 186 14		
	North Shore, (Stockton.) 339 1		
	Cargo Fleet - 329 10	8,368 4	
Ditto - -	Darlington District, viz.—		
	Towland - 539 6		
	Etherley - 5,273 17	5,813 3	15,428 15
	Total quantity conveyed - -	- -	251,656 6

* Of this quantity 277 tons 15 cwt. were received at Gateshead wharf from Scotland.

MEMOIRS OF THE GEOLOGICAL SURVEY

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AND OF THE
MUSEUM OF PRACTICAL GEOLOGY.

MINING RECORDS.

MINERAL STATISTICS

OF THE
UNITED KINGDOM OF GREAT BRITAIN AND IRELAND

For the Year 1858.

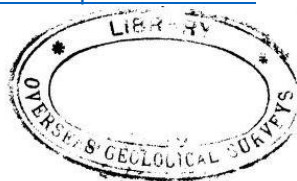
(PART I.)

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

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

LONDON:
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PUBLISHED BY
LONGMAN, BROWN, GREEN, LONGMANS, & ROBERTS.

1859.



Weardale blast furnaces in 1858, pub 1859

IRON MANUFACTURE RETURNS

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1858.

IRON MANUFACTURE.

ENGLAND.

Details of the Number of BLAST FURNACES in Blast, and of the Quantities
of PIG IRON made in the respective Iron-making Counties.

NORTHUMBERLAND.

TOTAL NUMBER OF FURNACES IN BLAST 6.

No.	Names of Works.	Owners.	Furnaces built.	Furnaces in blast.	Furnaces in blast in District.
NORTHUMBERLAND.					
1	Bedlington - -	Bedlington Iron Company -	2	0	
2	Brinkburn - -	Brinkburn Iron Company -	2	0	
3	Haltwhistle - -	Joseph Beasley, jun. -	1	0	
4	Hareshaw - -	Hareshaw Iron Company -	3	0	
5	Leamington - -	Tyne Iron Company*-	2	2	
6	Walker - -	Losh, Wilson, and Bell†	5	3	
7	Wallsend or Tyne } Main - - - }	Palmer and Co. - - -	2	0	
8	Wylam - - -	Bell, Brothers - - -	1	1	
			18	6	6

PIG IRON.

Total Produce of Northumberland - 45,312 Tons.

DURHAM.

TOTAL NUMBER OF FURNACES IN BLAST 44.

1	Birtley - -	Birtley Iron Company -	3	2	
	Bradley (Shotley Bridge) - -	Derwent Iron Co. - -	4	4	
3	Clarence† - -	Bell, Brothers - - -	5	5	
4	Consett§ - -	Derwent Iron Company -	7	5	
5	Crook Hall - -	Do. - - -	7	6	
6	Darlington - -	South Durham Iron Company	3	2	
7	Stockton - -	Holdsworth, Bennington, Byers, and Co. - -	3	2	
8	Witton Park and Etherley - -	Bolckow and Vaughan -	4	4	
9	Felling - - -	H. L. Pattinson and Co. -	2	2	
10	Jarrow¶ - - -	Palmer and Co. - - -	4	3	
11	Norton - - -	Warners, Lucas, and Barrett	3	2	
12	Stanhope - - -	Weardale Iron Co. - -	1	0	
13	Towlaw - - -	Do. - - -	5	5	
14	Washington** - -	Washington Iron Co. -	1	1	
15	Wear†† - - -	Bells, Hawkes, and Co. -	1	1	
			53	44	44

PIG IRON.

Total Produce of Durham - 265,184 Tons.

* 1 only in blast part of the year.
† 4 furnaces were in blast for 6 months, and 2 only for the remainder of the year.
‡ 3 only in blast for 10 months.
§ At the commencement of the year 4 furnaces were in blast; in May 5, and from May to December 6 furnaces.
|| At Stockton a third furnace was blown in, in December.
¶ 2 furnaces in blast 5 months, 1 furnace 4 months.
** In blast 4 months. †† Only blown in at the end of the year.

Durham iron ore record (p.79) in 1858, pub 1859

IRON ORE RETURNS.

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NORTHUMBERLAND AND DURHAM.

District of Mine.	Character of Ore.	Quantity in Tons.	Value.
		Tons. cwt. gr.	£ s. d.
WEARDALE and NEWCASTLE District	Brown Hæmatite and Argillaceous Carbonate	19,740 0 0	8,883 0 0
NEWCASTLE District	Ditto	1,184 13 0	533 0 6
		20,924 13 0	9,416 0 6

IRON ORE Distributed by North-eastern Railway.

From	To	Weight to each District.	Total Weight.
	Tons. Cwts.	Tons. Cwts.	Tons. Cwt.
NORTHUMBERLAND and District of NEWCASTLE and CARLISLE Railway.	Newcastle District, viz.— Consett - 6,662 6 Shotley - 12,424 11	19,086 17	
NEWCASTLE District	Haltwhistle District, viz.— Haltwhistle - - - Newcastle District, viz.— Shotley - 102 0 Consett - 933 0 Leadgate - 3 0 Gateshead - 134 13 Whittlehead - 12 0	653 7 1,184 13	19,740 4 1,184 13

WALES, NORTH.

District or Mine.	Character of Ore.	Quantities.	Value.
		Tons. cwt. qrs.	£ s. d.
CARNARVONSHIRE - -	Brown Hæmatite -	3,590 11 0	1,525 15 0
FLINTSHIRE - -	{ Do. and Argil- laceous - - }	1,050 0 0	446 5 0
DENBIGHSHIRE { Brymbo	Argillaceous -	31,435 0 0	12,574 0 0
Ruabon -	Do. -	17,500 0 0	7,435 0 0
Sundry Mines -	-	35,000 0 0	14,000 0 0
Total - -	-	88,575 10 0	45,980 0 0

Durham iron ore record (p.77) in 1858, pub 1859

IRON ORE RETURNS.

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The TOTAL IRON ORE Produce in the FURNACE (Ulverstone) DISTRICT in 1858, being

Exported by Ulverstone Canal - - -	Tons.	£ s. d.
Ulverstone and Lancaster Railway -	8,364	4,391 2 0
Furness Railway - - -	69,028	36,239 14 0
Used at Iron Works in district - - -	359,204	188,582 2 0
	1,950	1,023 15 0
	438,546	230,236 13 0

RAILWAY EXPORTATION OF IRON ORE.

From	To	Weight to each District.	Total Weight.
	Tons. cwt.	Tons. cwt.	Tons. cwt.
ULVERSTONE ORE carried over the North-Eastern Railway.	Stockton District, viz. :— Middlesbro' - 3,828 8 Stockton - 408 9 Eston - 1,994 14 Port Clarence - 127 15 Norton - 208 8 Cargo Fleet - 461 16	7,029 10	
	Darlington District, viz. :— Darlington - 535 2 Etherley - 2,458 1	2,993 3	
	Newcastle District, viz. :— Consett - - -	704 14	
	Midland District, viz. :— Leeds - - -	459 12	11,186 19

CUMBERLAND.

IRON ORE.

HÆMATITE IRON MINES near WHITEHAVEN in 1858.

No.	Name of Mines.	No. of Mine.	Names of Owners or Lessees.
1	Agnes Pit - - - -	1	Fletcher, Miller and Co.
2	Birks - - - -	1	H. Attwood and Son.
3	Bigrigg Moor, &c. - -	5	S. and J. Lindow.
4	Bigrigg - - - -	1	A. Hill.
5	Do. - - - -	1	Wilsons, Peile, and Co.
6	Crowgarth - - - -	2	A. Hill.
7	Cleator - - - -	5	T. Ainsworth, and Co.
8	Eskett - - - -	1	R. Barker.
9	Do. - - - -	1	D. and J. H. Robinson, Barket, and W. Thoburn.
10	Frizington Parks - -	4	Do. Do.
11	High House - - - -	1	S. W. Smith, and Co.
12	Jack Trees - - - -	1	S. and J. Lindow.
13	Knockmurton - - - -	1	Thomas Carmichael.
14	Langhorne - - - -	2	Lord Lonsdale.

Durham iron ore record (p.78) in 1858, pub 1859

78 IRON ORE RETURNS.

Hæmatite Iron Mines near Whitehaven in 1858—cont.

No.	Name of Mine.	No. of Mine.	Names of Owners or Lessees.
15	Parkside - - - -	*5	Fisher, Dees, Fletcher and Musgrave.
16	Todholes - - - -	1	John Stirling.
17	Woodend - - - -	1	H. Attwood and Son.
18	Salter - - - -	1	Nicholson and Co.
19	Yatehouse - - - -	1	Fletcher, Miller and Co.
		36	

* 96,107 Tons of Hæmatite were produced from those Mines.

HÆMATITE IRON ORE sent from the WHITEHAVEN District in the Year 1858.

	Quantities.	Value.
Quantity shipped at Whitehaven and at Workington - - - -	Tons. 207,256	£ s. d. 113,990 16 0
Quantity sent from Whitehaven out of the District - - - -	57,040	31,372 0 0
Quantity used at Iron Works at Cleator Moor Workington, &c. - - - -	67,248	36,986 8 0
Total produce of the Whitehaven District - - - -	331,544	182,349 4 0
ALSTON MOOR—Brown Hæmatite - - - -	17,094	5,129 2 0
	348,638	187,478 6 0

THE WHITEHAVEN HÆMATITE ORE was distributed as follows:—

To SOUTH WALES - - - -	181,373
" STAFFORDSHIRE AND NORTH WALES by ship - - - -	25,207
" Do. do. by rail - - - -	3,777
" SCOTLAND by ship - - - -	458
" " by rail - - - -	11,910
" NEWCASTLE AND CLEVELAND District - - - -	41,351
" FRANCE - - - -	218
CLEATOR MOOR AND WORKINGTON, &c. - - - -	67,248
	331,542

DISTRIBUTED by NORTH-EASTERN RAILWAY.

From	To	Weight to each District.
WHITEHAVEN Ore carried by North Eastern Railway	Newcastle District, viz.—	Tons. Cwts. Tons. Cwts.
	Consett - 21,324 2	
	Jarrow - 1,149 18	
	Birtley - 370 9	22,844 9
Ditto - - - -	Stockton District, viz.—	
	Stockton - 100 15	
	Middlesbro' - 302 14	403 9
Ditto - - - -	Darlington District, viz.—	
	Darlington - 1,107 15	
	Towlaw - 149 11	1,257 6
		24,505 4

Mineral Statistics for 1859, pub 1860

from <http://pubs.bgs.ac.uk/publications.html?pubID=B02453>

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1860.

Weardale blast furnaces in 1859, pub 1860

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IRON MANUFACTURE RETURNS.

IRON MANUFACTURE.

ENGLAND.

Details of the Number of BLAST FURNACES in Blast, and of the Quantities of Pig IRON made, in the respective Iron-making Counties.

NORTHUMBERLAND.

TOTAL NUMBER OF FURNACES IN BLAST, 6.

No.	Names of Works.	Owners.	Furnaces built.	Furnaces in blast.	Furnaces in blast in District.
NORTHUMBERLAND.					
1	Bedlington -	Bedlington Iron Company -	2	0	
2	Brinkburn -	Brinkburn Iron Company -	2	0	
3	Halwistle -	Joseph Beasley, jun. -	1	0	
4	Hareshaw -	Hareshaw Iron Company -	3	0	
5	Leamington -	Tyne Iron Company -	2	1	
6	Walker -	Losh, Wilson, and Bell -	5	3	
7	Wallsend -	Jarrow Iron Company -	2	2	
8	Wylam -	Bell, Brothers -	1	0	
			18	6	6

PIG IRON.

Total Produce of Northumberland - - 31,500 Tons.

DURHAM.

TOTAL NUMBER OF FURNACES IN BLAST, 46.

1	Birtley -	Birtley Iron Company -	3	2	
2	Bradley (Shotley) -	Derwent Iron Company -	4	4	
3	Clarence* -	Bell, Brothers -	5	5	
4	Consett -	Derwent Iron Company† -	7	5	
5	Crook Hall -	Do. -	7	6	
6	Darlington -	South Durham Iron Company -	3	2	
7	Stockton‡ -	Holdsworth, Bennington, Byers, and Co. -	3	3	
8	Witton Park and Etherley --	Bolckow and Vaughan -	4	4	
9	Felling§ -	H. L. Pattinson and Co. -	2	2	
10	Jarrow -	Jarrow Iron Works -	4	3	
11	Norton -	Warners, Lucas, and Barrett -	3	2	
12	Stanhope -	Weardale Iron Company -	1	1	
13	Towlaw -	Do. -	5	5	
14	Washington -	Washington Iron Company -	1	1	
15	Wear -	Bells, Hawkes, and Co. -	1	1	
16	Ferry Hill -	James Morrison -	3	0	
17	Leaham -	Lady Londonderry -	4	0	
18	Witton -	Whitwell & Co. -	2	0	
			62	46	46

PIG IRON.

Total produce of Durham - - 370,339 Tons.

* Clarence, 5 in blast for 11 months; one furnace building.

† The Derwent Iron Company had 16 furnaces in blast for the first half of 1859, and 11 the remainder of the year.

§ Felling, 2 for 11 months.

|| Washington, 1 for 5½ months.

Durham iron ore record (p.66) in 1859, pub 1860

66

IRON ORE RETURNS.

This HÆMATITE ORE of Whitehaven was distributed as follows:—

	Tons.
To SOUTH WALES - - - -	148,297
" STAFFORDSHIRE AND NORTH WALES by ship -	51,332
" Do. do. by rail -	12,555
" SCOTLAND by ship -	6,185
" by rail -	25,585
" NEWCASTLE AND CLEVELAND District -	77,200
" FRANCE - - - -	-

IRON WORKS:

Cleator Moor - - - -	79,152
Workington, &c. - - - -	-

Total - - - - 400,306

RAILWAY DISTRIBUTION OF CUMBERLAND IRON ORE.

By NORTH-EASTERN RAILWAY.

From	To	Weight to each District.	Total Weight.
WHITEHAVEN Ore carried by North-eastern Railway			
		Tons. cwt.	Tons. cwt.
		Newcastle District, viz.—	
		Consett - 48,290 3	
		Jarrow - 3,010 0	
		Birtley - 101 16	
		Felling - 691 15	
		Sunderland - 2 12	
		Pelaw - 79 11	
		Wallsend - 1,051 7	53,227 4
		Stockton District, viz.—	
		Stockton - 1,104 7	
		Middlesbro' - 82 8	1,186 15
		Darlington District, viz.—	
		Darlington - 5,629 13	5,629 13
Total Ore carried by North-eastern Railway from Whitehaven District - - - -			60,043 12

By NEWCASTLE AND CARLISLE RAILWAY.

From	To	Weight.	Ton.
WHITEHAVEN and ALSTON MOOR	Northumberland Iron Furnaces		78,378

NORTHUMBERLAND AND DURHAM.

District of Mine.	Character of Ore.	Quantity in Tons.	Value.
		Tons. cwt. qrs.	£ s. d.
WEARDALE and NEWCASTLE District.	Brown Hæmatite and Argillaceous Carbonate -	13,320 0 0	4,500 0 0
NEWCASTLE District -	Ditto -		

Durham iron ore record (p.62) in 1859, pub 1860

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IRON ORE RETURNS.

NORTH RIDING.

District or Mine.	Character of Ore.	Quantity.	Money Value.
		Tons. cwt.	£ s. d.
Eston Mines - - -	Carbonate and Oxide of Iron; chiefly a Carbonate of Protoxide of Iron.	638,620 0	95,793 0 0
Hutton Low Cross - - -		217,671 16	32,650 10 0
Upleatham - - -		265,524 18	99,829 10 0
Normanby - - -		204,260 0	29,325 0 0
Swainby - - -		59,750 0	9,500 0 0
Skinningrove - - -		8,206 0	1,203 18 0
Port Mulgrave - - -			
Staithes - - -			
Belmont, near <i>Guisbro'</i> - - -		101,425 0	16,223 15 0
Rosedale Abbey - - -			
Sleight's Bridge - - -		3,823 0	675 0 0
Bird's and Birtley - - -		2,062 0	355 0 0
Mirkside - - -		19,000 0	2,700 0 0
Grosmont - - -			
Sundry Mines - - -			
Total - - -		1,520,542 13	228,255 13 0

RAILWAY DISTRIBUTION.

Carried by the North-eastern Railway.

From	To	Weight to each District.	Total Weight.
		Tons. cwt.	Tons. cwt.
CLEVELAND District, <i>via</i> STOCKTON AND DARLINGTON Railway.	Newcastle District, viz.—		
	Washington - - -	40,485 7	
	Felling - - -	40,352 5	
	Birtley - - -	4,552 1	
	Gateshead - - -	42 18	
	Jarrow - - -	6,553 12	91,986 3
Ditto - - -	Stockton District, viz.—		
	Norton - - -	53,496 14	
	Stockton - - -	31,553 13	85,050 7
	Port Clarence - - -		
CLEVELAND District, <i>via</i> NORTH YORKSHIRE and CLEVELAND Railway.	Stockton District, viz.—		
	Stockton - - -	39,499 9	39,499 9
WHITBY District - - -	Whitby District, viz.—		
	Whitby - - -	45,942 16	
	Midland District, viz.—		
	Wolverhampton - - -	18 1	
	Blosewich - - -	18 9	36 10
	Stockton District, viz.—		
SEABORNE. Landed at Tyne Dock - - -	Middlesbro' - - -	31 14	46,011 0
	Newcastle District, viz.—		
	Washington - - -	85 0	
	Birtley - - -	543 0	
Ditto Wearmouth Dock - - -	Consett - - -	426 13	1,054 13
		1,054 13	1,054 13
Total - - -			263,601 12

Carried by the Stockton and Darlington Railway:—From

Cleveland - - -	To	983,582	
Other places - - -	Durham Iron Works {	100,173	1,083,755 0