

EA34120 Welsh Mineral Resources

[View Online](#)

1.

Duff PMcLD, Rawson PF. Geology of England and Wales. 2nd ed. London: Geological Society; 2006.

2.

Curtis A, Wood R, Geological Society of London. Geological prior information: informing science and engineering. London: The Geological Society; 2004.

3.

Highley DE, Chapman G, Bonel K. The Economic Importance of Minerals to the UK [Internet]. British Geological Survey Commissioned Report, CR/04/070N.; Available from: <https://www.bgs.ac.uk/mineralsuk/planning/economy.html>

4.

Howells MF. Regional Geology Guide [Internet]. British Geological Survey; Available from: https://www.google.co.uk/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&ved=0CCgQFjA&url=https%3A%2F%2Fwww.bgs.ac.uk%2Fdownloads%2Fstart.cfm%3Fid%3D832&ei=_4uRVNrYGoHR7Qblo4DwBQ&usg=AFQjCNGW1whP38d2MFI70dd-3EIfavr8Lg&sig2=b_yqobcUhHN3NoZiGxizuQ&bvm=bv.82001339,d.ZGU&cad=rja

5.

Maltman A. Geological maps: an introduction. 2nd ed. Chichester: Wiley; 1998.

6.

Welsh Government | Minerals Planning Policy Wales [Internet]. Available from:
<http://wales.gov.uk/topics/planning/policy/minerals/mineralsplanning/?lang=en>

7.

Planning and Minerals: Practice Guide. 2006 Department for Communities and Local Government. HMSO. [Internet]. Available from:
<https://www.gov.uk/government/publications/planning-and-minerals-practice-guide>

8.

Thompson A, Great Britain, Symonds Travers Morgan. Environmental geology in land use planning: guide to good practice. East Grinstead: Symonds Travers Morgan; 1998.

9.

Woodcock NH, Strachan RA. Geological history of Britain and Ireland. 2nd ed. Chichester: Wiley-Blackwell; 2012.

10.

Merriman RJ. Clay mineral assemblages in British Lower Palaeozoic mudrocks. Clay Minerals. 2006 Mar 1;41(1):473-512.

11.

Pritchard DD. Historical aspects of the Welsh slate industry [Internet]. Available from:
http://www.slateroof.co.uk/Slate_industry.html

12.

Great Britain. Slate waste tips and workings in Britain. London: HMSO; 1995.

13.

Sallery D. The slate industry in North and Mid Wales [Internet]. Available from:
<http://www.penmorfa.com/Slate/>

14.

Bevins RE, National Museum of Wales. A mineralogy of Wales. Cardiff: National Museum of Wales; 1994.

15.

Colman TB, Cooper DC. Exploration for metalliferous and related minerals in Britain: a guide [Internet]. (2nd Edition). DTI Minerals Programme Publication No. 1.; Available from: http://www.google.co.uk/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&ved=0CCMQFjA A&url=http%3A%2F%2Fwww.bgs.ac.uk%2Fdownloads%2Fstart.cfm%3Fid%3D1318&ei=wZ6RVK6tIKLB7AbL_oDABA&usg=AFQjcNEzAH7gLfBAOXRNBiEGL3HTrvDjgw&sig2=nq-GUuK XuToYsy-CNdlmTw&bvm=bv.82001339,d.ZGU&cad=rja

16.

Potential for mesothermal gold and VMS deposits in the Lower Palaeozoic Welsh Basin - NERC Open Research Archive [Internet]. Available from: <http://nora.nerc.ac.uk/3658/>

17.

Wiley: Ore Geology and Industrial Minerals: An Introduction, 3rd Edition - Anthony M. Evans. Available from:
<http://eu.wiley.com/WileyCDA/WileyTitle/productCd-0632029536.html>

18.

North FJ, National Museum of Wales. Mining for metals in Wales. Cardiff: [National Museum of Wales]; 1962.

19.

Geological mapping in the evaluation of structurally controlled gold veins: A case study from the Dolgellau goldbelt, north Wales, United Kingdom - Document Summary [Internet]. Available from:
<http://www.onemine.org/search/summary.cfm/Geological-mapping-in-the-evaluation-of-structurally-controlled-gold-veins-A-case-study-from-the-Dolgellau-goldbelt-north-Wales-United-Kingdom?d=12345678901234567890123456789012345678901234567890123456789012345678901234159918&fullText=Mineralium%20Deposita&organization=SAIMM>

20.

Adlam KAMcL, Harrison DJ, Wild JBL. The hard-rock resources of the country around Caerphilly, South Wales: description of parts of 1:50000 geological sheets 249 and 263. London: HMSO; 1984.

21.

Harrison DJ. High-purity limestones in England and Wales. Quarterly Journal of Engineering Geology and Hydrogeology. 1993 Nov 1;26(4):293-303.

22.

Thompson et al A. The sustainable use of high specification aggregates for skid-resistant road surfacing in England - final report [Internet]. Capita Symonds (for the Office of the Deputy Prime Minister); 2004. Available from:
http://www.sustainableaggregates.com/library/docs/samp/I0057_samp_1_039.pdf

23.

Welsh Government | Minerals Technical Advice Note (MTAN) Wales 1: Aggregates (March 2004) [Internet]. Available from:
<http://wales.gov.uk/topics/planning/policy/mineralstans/2888891/?lang=en>

24.

The South Wales Coalfield: low grade metamorphism in a foreland basin setting. Available from:
<http://journals.cambridge.org/action/displayFulltext?type=1&fid=4482680&jid=GEO&volu melyId=133&issueld=06&aid=4482672>

25.

Summary of information on coal for land-use planning purposes [Internet]. Available from:
<http://www.google.co.uk/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&cad=rja&uact=8&ved=0CCMQFjAA&url=http%3A%2Fwww.bgs.ac.uk%2Fdownloads%2Fstart.cfm%3Fd%3D1299&ei=maORVKWgC06p7Ab0-IDACg&usg=AFQjCNElzsrltfhUxdhGavTTxJxD9coo3g&sig2=eXr7jeM29rEQKDqSRMp0SQ&bvm=bv.82001339,d.ZGU>

26.

Trueman AE, Owen TR, University College of Swansea. The Upper Palaeozoic and post-Palaeozoic rocks of Wales: published in memory of Sir Arthur Trueman, and also to celebrate the fiftieth anniversary (1920-1970) of the Department of Geology, University College of Swansea. Cardiff: University of Wales Press; 1974.

27.

Fowler P, Gayer RA. The association between tectonic deformation, inorganic composition and coal rank in the bituminous coals from the South Wales coalfield, United Kingdom. International Journal of Coal Geology. 1999 Dec;42(1):1-31.

28.

Frodsham K, Gayer RA. The impact of tectonic deformation upon coal seams in the South Wales coalfield, UK. International Journal of Coal Geology. 1999 Jan;38(3-4):297-332.

29.

Gayer R, Fowler R, Davies G. Coal rank variations with depth related to major thrust detachments in the South Wales coalfield: implications for fluid flow and mineralization. Geological Society, London, Special Publications. 1997 Jan 1;125(1):161-178.

30.

Gayer R, Garven G, Rickard D. Fluid migration and coal-rank development in foreland basins. Geology. 1998;26(8).

31.

Hower JC, Gayer RA. Mechanisms of coal metamorphism: case studies from Paleozoic coalfields. International Journal of Coal Geology. 2002 May;50(1-4):215-245.

32.

Coal resource appraisal maps : methodology and datasets used - NERC Open Research Archive [Internet]. Available from: <http://nora.nerc.ac.uk/7456/>

33.

Welsh Government | Minerals Technical Advice Note (MTAN) Wales 2: Coal (January 2009) [Internet]. Available from:
<http://wales.gov.uk/topics/planning/policy/mineralstans/2877461/?lang=en>

34.

Welsh Government | Minerals Technical Advice Note (MTAN) Wales 1: Aggregates (March 2004) [Internet]. Available from:
<http://wales.gov.uk/topics/planning/policy/mineralstans/2888891/?lang=en>

35.

Welsh Government | Interim Marine Aggregates Dredging Policy [Internet]. Available from:
<http://wales.gov.uk/topics/planning/policy/minerals/interimmarine/?lang=en>

36.

Caers J. Modeling uncertainty in the earth sciences. Chichester, UK: Wiley-Blackwell; 2011.

37.

Chiles JP, Aug C, Guillen A, Lees T. Modelling the geometry of geological units and its uncertainty in 3D from structure data: the Potential-field Method. Orebody modelling and strategic mine planning uncertainty and risk management models. [Internet]. Available from:
http://www.geomodeller.com/co/papers_presentations/papers/w_pap_3d_geology/2004_Chiles_etai_3DGeology_OMSMP_Perth.pdf

38.

Jones RR, McCaffrey KJW, Wilson RW, Holdsworth RE. Digital field data acquisition: towards increased quantification of uncertainty during geological mapping. Geological Society, London, Special Publications. 2004 Jan 1;239(1):43–56.

39.

Gong P. Integrated analysis of special data from multiple sources: using evidence of

reasoning and artificial neural techniques for geological mapping [Internet]. Available from: <http://nature.berkeley.edu/~penggong/PDFpapers/GongPERS96geo.pdf>

40.

Lelliott MR, Cave MR, Wealthall GP. A structured approach to the measurement of uncertainty in 3D geological models. Quarterly Journal of Engineering Geology and Hydrogeology. 2009 Feb 1;42(1):95–105.

41.

Some Of The Major Structures Of Early Palaeozoic Age In Wales And The Welsh Borderland : An Historical Essay : Reprinted From The Pre-Cambrian And Lower Palaeozoic Rocks Of Wales By Douglas A Bassett - Used Books - Paperback - 1969 - from Tavrobel and Biblio.com [Internet]. Available from: <http://www.biblio.com/book/some-major-structures-early-palaeozoic-age/d/524354981>

42.

Andrews JH, Seymour WA. A history of the Ordnance Survey. Folkestone: Dawson; 1980.

43.

Read WA. Down to earth: One hundred and fifty years of the British geological survey by H.E. Wilson, Scottish Academic Press, Edinburgh & London, 1985. No. of pages: 189. Price: £9.95 (paperback only). Geological Journal. 1987 Apr;22(S1):213–213.

44.

A guide to sources of earth science information for planning and development - NERC Open Research Archive [Internet]. Available from: <http://nora.nerc.ac.uk/3257/>

45.

Humpage AJ, Bide TP. The Mineral Resource Map of Wales [Internet]. Available from: http://www.google.co.uk/url?sa=t&rct=j&q=&esrc=s&source=web&cd=2&cad=rja&uact=8&ved=0CCoQFjAB&url=http%3A%2Fwww.bgs.ac.uk%2Fdownloads%2Fstart.cfm%3Fid%3D1665&ei=zq6RVKeWDciP7AbZ9YDgDw&usg=AFQjCNGpdJ2Z3tURk3ypzFH0CF3h_TXPxg&sig2=Mbj13u7RO04BYXwOcgmWeg&bvm=bv.82001339,d.ZGU

46.

Wrighton CE, McEvoy FM, Bust R. A guide to mineral safeguarding in England: good practice advice [Internet]. Available from:
http://www.google.co.uk/url?sa=t&rct=j&q=&esrc=s&source=web&cd=2&cad=rja&uact=8&ved=0CCgQFjAB&url=http%3A%2Fwww.bgs.ac.uk%2Fdownloads%2Fstart.cfm%3Fd%3D1333&ei=H6-RVPuICuOt7gaS-oClAw&usg=AFQjCNF8jZ_slczugMWuk01J1bVYoMNULg&sig2=zI09OtjnpwFvQ4S_BQfQtQ&bvm=bv.82001339,d.ZGU

47.

Mineral Evidence Base 2: The origins of the minerals safeguarding areas and policies [Internet]. Available from:
http://www.google.co.uk/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&cad=rja&uact=8&ved=0CCMQFjAA&url=http%3A%2Fwww.centralbedfordshire.gov.uk%2FImages%2FM%2520EB%25202%2520Extent%2520of%2520MSA%2520etc_tcm6-25138.pdf&ei=lq-RVKhfL6WV7AbEwoHIDw&usg=AFQjCNEy8X-cuw7jxTmurdS4Oj3EcDND4w&sig2=pBR9D-tVoNJJa5XvKs5bvg&bvm=bv.82001339,d.ZGU

48.

National Minerals Map and Aggregate Safeguarding Map for Wales: Outcomes of Consultation Event held at Ladywell House, Newtown 19th May 2009 [Internet]. Available from:
http://www.google.co.uk/url?sa=t&rct=j&q=&esrc=s&source=web&cd=2&cad=rja&uact=8&ved=0CCMQFjAB&url=http%3A%2Fnora.nerc.ac.uk%2F20138%2F1%2FAggregates_Safeguarding_Map_Of_Wales_Final.pdf&ei=8a-RVN-jF6bg7Qbv04DQBg&usg=AFQjCNHzLQwAM7FxdcCAV9loWGqfkDVUA&sig2=Vpb6VRke7wP1aHgD9I9EMQ&bvm=bv.82001339,d.ZGU

49.

R. A. Waters. A Geological Background for Planning and Development in the Afon Teifi ... - R. A. Waters, J. R. Davies, D. Wilson, J. K. Prigmore, R. M. Carruthers, B. C. Chacksfield, L. M. Coleby, J. R. Hallam, R. E. Heaven, P. R. N. Hobbs, K. J. Northmore, N. S. Robins, S. J. Self, P. Shand, P. R. Wilby, British Geological Survey - Google Books [Internet]. Available from:
http://books.google.co.uk/books/about/A_Geological_Background_for_Planning_and.html?id=O2MsygAACAJ&redir_esc=y

50.

Integrated mineral resource mapping and safeguarding : a national-scale example from Wales - NERC Open Research Archive [Internet]. Available from:
<http://nora.nerc.ac.uk/19870/>

51.

Aggregate Safeguarding Maps of Wales [Internet]. Available from:
<http://www.bgs.ac.uk/downloads/browse.cfm?sec=12&cat=219>

52.

Bloodworth AJ, Scott PW, McEvoy FM. Digging the backyard: Mining and quarrying in the UK and their impact on future land use. Land Use Policy. 2009 Dec;26:S317-S325.

53.

The future of the global minerals and metals sector : issues and challenges out to 2050 - NERC Open Research Archive [Internet]. Available from: <http://nora.nerc.ac.uk/19657/>

54.

UK Coal Resource for New Exploitation Technologies - Datasets | data.gov.uk [Internet]. Available from:
<http://data.gov.uk/dataset/uk-coal-resource-for-new-exploitation-technologies1>

55.

R. T Smith, D. C Cooper, D. J Bland. The Occurrence and Economic Potential of Nodular Monazite in South-Central Wales [Internet]. British Geological Survey; 1994. Available from: <https://www.bgs.ac.uk/downloads/start.cfm?id=1888>

56.

The Unconventional hydrocarbon resources of Britain's onshore basins – Coalbed Methane [Internet]. Available from:
https://www.google.co.uk/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&cad=rja&uact=8&ved=0CCgQFjAA&url=https%3A%2F%2Fwww.og.decc.gov.uk%2FUKpromote%2Fonshore_paper%2FPromote_UK_CBM.pdf&ei=vrKRVMS0OlzV7Qa47IGgCA&usg=AFQjCNGxCWhj2I2URxfON0S6MS8XvutelQ&sig2=Uvp3ck4dI9sVX0Lr1cZS5Q&bvm=bv.82001339,d.ZGU

57.

Risk List 2012 | MineralsUK [Internet]. Available from:
<http://www.bgs.ac.uk/mineralsuk/statistics/risklist.html>

58.

Adlam KAMcL, Harrison DJ, Wild JBL. The hard-rock resources of the country around Caerphilly, South Wales: description of parts of 1:50000 geological sheets 249 and 263. London: HMSO; 1984.

59.

F. C. Cox. The Distribution of High Grade Sandstone for Aggregate Usage in Parts of ... - F. C. Cox, J. R. Davies, R. C. Scrivener, Great Britain. Department of the Environment, British Geological Survey - Google Books [Internet]. Available from:
http://books.google.co.uk/books/about/The_Distribution_of_High_Grade_Sandstone.html?id=LzhbygAACAAJ&redir_esc=y

60.

D. J. Harrison. South Wales Hard Rock Feasibility Study: a Preliminary Report: Institute of ... - D. J. Harrison, J. B. L. Wild, K. A. McL. Adlam, Institute of Geological Sciences (Great Britain). Mineral Resources Division, Institute of Geological Sciences (Great Britain). Industrial Minerals Assessment Unit - Google Books [Internet]. Available from:
http://books.google.co.uk/books/about/South_Wales_Hard_Rock_Feasibility_Study.html?id=opXaXwAACAAJ&redir_esc=y

61.

D. J. Harrison. Appraisal of High-purity Limestones in England and Wales : a Study of ... - D. J. Harrison, J. H. Hudson, B. Cannell, Great Britain. Department of the Environment, British Geological Survey. Mineral Resources Research Group - Google Books.

62.

Thompson et al A. The sustainable use of high specification aggregates for skid-resistant road surfacing in England - final report [Internet]. Capita Symonds (for the Office of the Deputy Prime Minister); 2004. Available from:
http://www.sustainableaggregates.com/library/docs/samp/I0057_samp_1_039.pdf

63.

Alan Thompson, Andrew Burrows, David Flavin, Ian Walsh. Sustainable Use of High specification aggregates for Skid-Resistant Road Surfacing in England [Internet]. Capita Symonds (for the Office of the Deputy Prime Minister); 2004. Available from: http://www.sustainableaggregates.com/library/docs/samp/l0057_samp_1_039.pdf

64.

Unpublished test data for the Cribarth and Crymych formations in the Cribarth area (available on Blackboard).