

EA34120 - Welsh Mineral Resources

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1.

Duff, P. McL. D. & Rawson, P. F. Geology of England and Wales. (Geological Society, London, 2006).
2.

Curtis, A., Wood, R., & Geological Society of London. Geological Prior Information: Informing Science and Engineering. vol. Geological Society special publication (The Geological Society, London, 2004).
3.

Highley, D. E., Chapman, G. & Bonel, K. The Economic Importance of Minerals to the UK. <https://www.bgs.ac.uk/mineralsuk/planning/economy.html>.
4.

Howells, M. F. Regional Geology Guide.
https://www.google.co.uk/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&ved=0CCgQFjAA&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. (Wiley, Chichester, 1998).
- 6.

Welsh Government | Minerals Planning Policy Wales.

<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.

<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. (Symonds Travers Morgan, East Grinstead, 1998).

9.

Woodcock, N. H. & Strachan, R. A. Geological History of Britain and Ireland. (Wiley-Blackwell, Chichester, 2012).

10.

Merriman, R. J. Clay mineral assemblages in British Lower Palaeozoic mudrocks. *Clay Minerals* **41**, 473–512 (2006).

11.

Pritchard, D. D. Historical aspects of the Welsh slate industry.

http://www.slateroof.co.uk/Slate_industry.html.

12.

Great Britain. Slate Waste Tips and Workings in Britain. (HMSO, London, 1995).

13.

Sallery, D. The slate industry in North and Mid Wales. <http://www.penmorfa.com/Slate/>.

Adlam, K. A. McL., Harrison, D. J. & Wild, J. B. L. The Hard-Rock Resources of the Country around Caerphilly, South Wales: Description of Parts of 1:50000 Geological Sheets 249 and 263. vol. Mineral assessment report (HMSO, London, 1984).

21.

Harrison, D. J. High-purity limestones in England and Wales. Quarterly Journal of Engineering Geology and Hydrogeology **26**, 293–303 (1993).

22.

Thompson et al, A. The sustainable use of high specification aggregates for skid-resistant road surfacing in England - final report.
http://www.sustainableaggregates.com/library/docs/samp/l0057_samp_1_039.pdf (2004).

23.

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

24.

The South Wales Coalfield: low grade metamorphism in a foreland basin setting.

25.

Summary of information on coal for land-use planning purposes.
<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%2F%2Fwww.bgs.ac.uk%2Fdownloads%2Fstart.cfm%3Fid%3D1299&ei=maORVKWgCO6p7Ab0-IDACg&usg=AFQjCNEIzsrItfhUxdhGavTTxJxD9coo3g&sig2=eXr7jeM29rEQKDqSRMp0SQ&bvm=bv.82001339,d.ZGU>.

26.

Trueman, A. E., Owen, T. R., & 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. (University of Wales Press, Cardiff, 1974).

27.

Fowler, P. & Gayer, R. A. 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* **42**, 1-31 (1999).

28.

Frodsham, K. & Gayer, R. A. The impact of tectonic deformation upon coal seams in the South Wales coalfield, UK. *International Journal of Coal Geology* **38**, 297-332 (1999).

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 **125**, 161-178 (1997).

30.

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

31.

Hower, J. C. & Gayer, R. A. Mechanisms of coal metamorphism: case studies from Paleozoic coalfields. *International Journal of Coal Geology* **50**, 215-245 (2002).

32.

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

33.

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

34.

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

35.

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

36.

Caers, J. Modeling Uncertainty in the Earth Sciences. (Wiley-Blackwell, Chichester, UK, 2011).

37.

Chiles, J. P., 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.
http://www.geomodeller.com/co/papers_presentations/papers/w_pap_3d_geology/2004_Chiles_etal_3DGeology_OMSMP_Perth.pdf.

38.

Jones, R. R., McCaffrey, K. J. W., Wilson, R. W. & Holdsworth, R. E. Digital field data acquisition: towards increased quantification of uncertainty during geological mapping. Geological Society, London, Special Publications **239**, 43–56 (2004).

39.

Gong, P. Integrated analysis of special data from multiple sources: using evidence of reasoning and artificial neural techniques for geological mapping.
<http://nature.berkeley.edu/~penggong/PDFpapers/GongPERS96geo.pdf>.

40.

Lelliott, M. R., Cave, M. R. & Wealthall, G. P. A structured approach to the measurement of uncertainty in 3D geological models. Quarterly Journal of Engineering Geology and Hydrogeology **42**, 95–105 (2009).

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.

<http://www.biblio.com/book/some-major-structures-early-palaeozoic-age/d/524354981>.

42.

Andrews, J. H. & Seymour, W. A. A History of the Ordnance Survey. (Dawson, Folkestone, 1980).

43.

Read, W. A. 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 **22**, 213–213 (1987).

44.

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

45.

Humpage, A. J. & Bide, T. P. The Mineral Resource Map of Wales.

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%2F%2Fwww.bgs.ac.uk%2Fdownloads%2Fstart.cfm%3Fid%3D1665&ei=zq6RVKeWDciP7AbZ9YDgDw&usg=AFQjCNGpdj2Z3tURk3ypzFH0CF3h_TXPxg&sig2=Mbj13u7RO04BYXwOcgmWeg&bvm=bv.82001339,d.ZGU.

46.

Wrighton, C. E., McEvoy, F. M. & Bust, R. A guide to mineral safeguarding in England: good practice advice.

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%2F%2Fwww.bgs.ac.uk%2Fdownloads%2Fstart.cfm%3Fid%3D1333&ei=H6-RVPuICuOt7gaS-oCIAw&usg=AFQjCNF8jZ_slczugMWuk01J1bVYoMNUlg&sig2=zIO9OtjnpwFvQ4S_BQfQtQ&bvm=bv.82001339,d.ZGU.

47.

Mineral Evidence Base 2: The origins of the minerals safeguarding areas and policies.

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%2F%2Fwww.centralbedfordshire.gov.uk%2Fimages%2FM%2520EB%25202%2520Extent%2520of%2520MSA%2520etc_tcm6-25138.pdf&ei=lq-RV KHfL6WV7AbEwoHIDw&usg=AFQjCNEy8X-cuw7jxTmurds4Oj3EcDND4w&sig2=pBR9D-tVoN JJa5XvKs5bvg&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.

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%2F%2Fnora.nerc.ac.uk%2F20138%2F1%2FAggregates_Safeguarding_Map_Of_Wales_Final.pdf&ei=8a-RVN-jF6bg7Qbv04DQBg&usg=AFQjCNHfzLQ wAM7FxdcCAV9loWGqfkDVUA&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.

http://books.google.co.uk/books/about/A_Geological_Background_for_Planning_and.html?id=O2MsygAACAAJ&redir_esc=y.

50.

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

51.

Aggregate Safeguarding Maps of Wales.

<http://www.bgs.ac.uk/downloads/browse.cfm?sec=12&cat=219>.

52.

Bloodworth, A. J., Scott, P. W. & McEvoy, F. M. Digging the backyard: Mining and quarrying in the UK and their impact on future land use. *Land Use Policy* **26**, S317–S325 (2009).

53.

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

54.

UK Coal Resource for New Exploitation Technologies - Datasets | data.gov.uk.
<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. (British Geological Survey, 1994).

56.

The Unconventional hydrocarbon resources of Britain's onshore basins – Coalbed Methane. 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=AFQjCNGxCWhj2l2URxfON0S6MS8XvutelQ&sig2=Uvp3ck4dl9sVX0Lr1cZS5Q&bvm=bv.82001339,d.ZGU.

57.

Risk List 2012 | MineralsUK. <http://www.bgs.ac.uk/mineralsuk/statistics/risklist.html>.

58.

Adlam, K. A. McL., Harrison, D. J. & Wild, J. B. L. The Hard-Rock Resources of the Country around Caerphilly, South Wales: Description of Parts of 1:50000 Geological Sheets 249 and 263. vol. Mineral assessment report (HMSO, London, 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.
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.
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.
http://www.sustainableaggregates.com/library/docs/samp/l0057_samp_1_039.pdf (2004).

63.

Alan Thompson, Andrew Burrows, David Flavin, & Ian Walsh. Sustainable Use of High specification aggregates for Skid-Resistant Road Surfacing in England.
http://www.sustainableaggregates.com/library/docs/samp/l0057_samp_1_039.pdf (2004).

64.

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