

EA34120 Welsh Mineral Resources

[View Online](#)

'A Guide to Sources of Earth Science Information for Planning and Development - NERC Open Research Archive'. n.d. <http://nora.nerc.ac.uk/3257/>.

Adlam, K. A. McL., D. J. Harrison, and J. B. L. Wild. 1984a. 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. London: HMSO.

———. 1984b. 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. London: HMSO.

'Aggregate Safeguarding Maps of Wales'. n.d.
<http://www.bgs.ac.uk/downloads/browse.cfm?sec=12&cat=219>.

Alan Thompson, Andrew Burrows, David Flavin, and Ian Walsh. 2004. 'Sustainable Use of High Specification Aggregates for Skid-Resistant Road Surfacing in England'. Capita Symonds (for the Office of the Deputy Prime Minister). 2004.
http://www.sustainableaggregates.com/library/docs/samp/I0057_samp_1_039.pdf.

Andrews, J. H., and W. A. Seymour. 1980. A History of the Ordnance Survey. Folkestone: Dawson.

Bevins, R. E. and National Museum of Wales. 1994. A Mineralogy of Wales. Vol. National Museum of Wales Geological Series. Cardiff: National Museum of Wales.

Bloodworth, A.J., P.W. Scott, and F.M. McEvoy. 2009. 'Digging the Backyard: Mining and Quarrying in the UK and Their Impact on Future Land Use'. Land Use Policy 26 (December): S317-25. <https://doi.org/10.1016/j.landusepol.2009.08.022>.

Caers, Jef. 2011. Modeling Uncertainty in the Earth Sciences. Chichester, UK: Wiley-Blackwell.

Chiles, J P, C Aug, A Guillen, and T Lees. n.d. '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_et.al_3DGeology_OMSMP_Perth.pdf.

'Coal Resource Appraisal Maps : Methodology and Datasets Used - NERC Open Research Archive'. n.d. <http://nora.nerc.ac.uk/7456/>.

- Colman, T B, and D C Cooper. n.d. 'Exploration for Metalliferous and Related Minerals in Britain: A Guide'. DTI Minerals Programme Publication No. 1.
http://www.google.co.uk/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&ved=0CCMQFjA&url=http%3A%2F%2Fwww.bgs.ac.uk%2Fdownloads%2Fstart.cfm%3D1318&ei=wZ6RVK6tIKLB7AbL_oDABA&usg=AFQjCNEzAH7gLfBAOXRNBiEGL3HTrvDjgw&sig2=nq-GUuKXuToYsy-CNdLmTw&bvm=bv.82001339,d.ZGU&cad=rja.
- Curtis, Andrew, Rachel Wood, and Geological Society of London. 2004. Geological Prior Information: Informing Science and Engineering. Vol. Geological Society special publication. London: The Geological Society.
- D. J. Harrison. n.d. 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.
- . n.d. '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.
- Duff, P. McL. D., and Peter Franklin Rawson. 2006. Geology of England and Wales. 2nd ed. London: Geological Society.
- F. C. Cox. n.d. '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.
- Fowler, P, and R.A Gayer. 1999. '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): 1-31.
[https://doi.org/10.1016/S0166-5162\(99\)00027-0](https://doi.org/10.1016/S0166-5162(99)00027-0).
- Frodsham, K, and R.A Gayer. 1999. 'The Impact of Tectonic Deformation upon Coal Seams in the South Wales Coalfield, UK'. International Journal of Coal Geology 38 (3-4): 297-332.
[https://doi.org/10.1016/S0166-5162\(98\)00028-7](https://doi.org/10.1016/S0166-5162(98)00028-7).
- Gayer, R., R. Fowler, and G. Davies. 1997. '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 (1): 161-78.
<https://doi.org/10.1144/GSL.SP.1997.125.01.13>.
- Gayer, Rod, Grant Garven, and David Rickard. 1998. 'Fluid Migration and Coal-Rank Development in Foreland Basins'. Geology 26 (8).
[https://doi.org/10.1130/0091-7613\(1998\)026<0679:FMACRD>2.3.CO;2](https://doi.org/10.1130/0091-7613(1998)026<0679:FMACRD>2.3.CO;2).
- 'Geological Mapping in the Evaluation of Structurally Controlled Gold Veins: A Case Study from the Dolgellau Goldbelt, North Wales, United Kingdom - Document Summary'. n.d.
<http://www.onemine.org/search/summary.cfm/Geological-mapping-in-the-evaluation-of-str>

ucturally-controlled-gold-veins-A-case-study-from-the-Dolgellau-goldbelt-north-Wales-Unit
d-Kingdom?d=123456789012345678901234567890123456789012345678901234567890
1234159918&fullText=Mineralium%20Deposita&organization=SAIMM.

Gong, P. n.d. '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>.

Great Britain. 1995. Slate Waste Tips and Workings in Britain. London: HMSO.

Harrison, D. J. 1993. 'High-Purity Limestones in England and Wales'. Quarterly Journal of Engineering Geology and Hydrogeology 26 (4): 293–303.
<https://doi.org/10.1144/GSL.QJEGH.1993.026.004.05>.

Highley, D E, GR Chapman, and KA Bonel. n.d. 'The Economic Importance of Minerals to the UK'. British Geological Survey Commissioned Report, CR/04/070N.
<https://www.bgs.ac.uk/mineralsuk/planning/economy.html>.

Howells, M F. n.d. 'Regional Geology Guide'. British Geological Survey.
https://www.google.co.uk/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&ved=0CCgQFjA A&url=https%3A%2F%2Fwww.bgs.ac.uk%2Fdownloads%2Fstart.cfm%3Fid%3D832&ei=_4 uRVNrYGoHR7Qblo4DwBQ&usg=AFQjCNGW1whP38d2MFI70dd-3ElFavr8Lg&sig2=b_yqobc UhHN3NoZiGxizuQ&bvm=bv.82001339,d.ZGU&cad=rja

Hower, James C, and Rodney A Gayer. 2002. 'Mechanisms of Coal Metamorphism: Case Studies from Paleozoic Coalfields'. International Journal of Coal Geology 50 (1–4): 215–45.
[https://doi.org/10.1016/S0166-5162\(02\)00119-2](https://doi.org/10.1016/S0166-5162(02)00119-2).

Humpage, A J, and T P Bide. n.d. '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%3Fi d%3D1665&ei=zq6RVKeWDciP7AbZ9YDgDw&usg=AFQjCNGpdJ2Z3tURk3ypzFH0CF3h_TXP xg&sig2=Mbj13u7RO04BYXwOcgmWeg&bvm=bv.82001339,d.ZGU

'Integrated Mineral Resource Mapping and Safeguarding : A National-Scale Example from Wales - NERC Open Research Archive'. n.d. <http://nora.nerc.ac.uk/19870/>.

Jones, R. R., K. J. W. McCaffrey, R. W. Wilson, and R. E. Holdsworth. 2004. 'Digital Field Data Acquisition: Towards Increased Quantification of Uncertainty during Geological Mapping'. Geological Society, London, Special Publications 239 (1): 43–56.
<https://doi.org/10.1144/GSL.SP.2004.239.01.04>.

Lelliott, M. R., M. R. Cave, and G. P. Wealthall. 2009. 'A Structured Approach to the Measurement of Uncertainty in 3D Geological Models'. Quarterly Journal of Engineering Geology and Hydrogeology 42 (1): 95–105. <https://doi.org/10.1144/1470-9236/07-081>.

Maltman, Alex. 1998. Geological Maps: An Introduction. 2nd ed. Chichester: Wiley.

Merriman, R. J. 2006. 'Clay Mineral Assemblages in British Lower Palaeozoic Mudrocks'. Clay Minerals 41 (1): 473–512. <https://doi.org/10.1180/0009855064110204>.

'Mineral Evidence Base 2: The Origins of the Minerals Safeguarding Areas and Policies'.

n.d.

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-RVKHfL6WV7AbEwoHIDw&usg=AFQjCNEy8X-cuw7jxTmurdS4Oj3EcDND4w&sig2=pBR9D-tVoNJJa5XvKs5bvg&bvm=bv.82001339,d.ZGU.

'National Minerals Map and Aggregate Safeguarding Map for Wales: Outcomes of Consultation Event Held at Ladywell House, Newtown 19th May 2009'. n.d.

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=AFQjCNHfzLQwAM7FxdcCAV9IoWGqfkDVUA&sig2=Vpb6VRke7wP1aHgD9l9EMQ&bvm=bv.82001339,d.ZGU.

North, F.J. and National Museum of Wales. 1962. Mining for Metals in Wales. Cardiff: [National Museum of Wales].

'Planning and Minerals: Practice Guide. 2006 Department for Communities and Local Government. HMSO.' n.d.

<https://www.gov.uk/government/publications/planning-and-minerals-practice-guide>.

'Potential for Mesothermal Gold and VMS Deposits in the Lower Palaeozoic Welsh Basin - NERC Open Research Archive'. n.d. <http://nora.nerc.ac.uk/3658/>.

Pritchard, D Dylan. n.d. 'Historical Aspects of the Welsh Slate Industry'.
http://www.slateroof.co.uk/Slate_industry.html.

R. A. Waters. n.d. '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.

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

Read, W. A. 1987. '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 (S1): 213-213.
<https://doi.org/10.1002/gj.3350220521>.

'Risk List 2012 | MineralsUK'. n.d. <http://www.bgs.ac.uk/mineralsuk/statistics/risklist.html>.
 Sallery, Dave. n.d. 'The Slate Industry in North and Mid Wales'.
<http://www.penmorfa.com/Slate/>.

'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'. n.d.

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

'Summary of Information on Coal for Land-Use Planning Purposes'. n.d.

<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%3Fd%3D1299&ei=maORVKWgCO6p7Ab0-IDACg&usg=AFQjCNElzsrltfhUxdhGavTTxJxD9coo3g&sig2=eXr7jeM29rEQKDqSRMp0SQ&bvm=bv.82001339,d.ZGU>.

'The Future of the Global Minerals and Metals Sector : Issues and Challenges out to 2050 - NERC Open Research Archive'. n.d. <http://nora.nerc.ac.uk/19657/>.

'The South Wales Coalfield: Low Grade Metamorphism in a Foreland Basin Setting'. n.d.

<http://journals.cambridge.org/action/displayFulltext?type=1&fid=4482680&jid=GEO&volu melyd=133&issueld=06&aid=4482672>.

'The Unconventional Hydrocarbon Resources of Britain's Onshore Basins – Coalbed Methane'. n.d.

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%2FKpromote%2Fonshore_paper%2FPromote_UK_CBM.pdf&ei=vrKRVMS0IzV7Qa47IGgCA&usg=AFQjCNGxCWhj2I2URxfON0S6MS8XvutelQ&sig2=Uvp3ck4dl9sVX0Lr1cZS5Q&bvm=bv.82001339,d.ZGU.

Thompson, A., Great Britain, and Symonds Travers Morgan. 1998. Environmental Geology in Land Use Planning: Guide to Good Practice. East Grinstead: Symonds Travers Morgan.

Thompson et al, Alan. 2004a. 'The Sustainable Use of High Specification Aggregates for Skid-Resistant Road Surfacing in England - Final Report'. Capita Symonds (for the Office of the Deputy Prime Minister). 2004.

http://www.sustainableaggregates.com/library/docs/samp/I0057_samp_1_039.pdf.

———. 2004b. 'The Sustainable Use of High Specification Aggregates for Skid-Resistant Road Surfacing in England - Final Report'. Capita Symonds (for the Office of the Deputy Prime Minister). 2004.

http://www.sustainableaggregates.com/library/docs/samp/I0057_samp_1_039.pdf.

Trueman, A. E., T. R. Owen, and University College of Swansea. 1974. 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.

'UK Coal Resource for New Exploitation Technologies - Datasets | Data.Gov.UK'. n.d. <http://data.gov.uk/dataset/uk-coal-resource-for-new-exploitation-technologies1>.

'Unpublished Test Data for the Cribarth and Crymych Formations in the Cribarth Area (Available on Blackboard)'. n.d.

'Welsh Government | Interim Marine Aggregates Dredging Policy'. n.d.

<http://wales.gov.uk/topics/planning/policy/minerals/interimmarine/?lang=en>.

'Welsh Government | Minerals Planning Policy Wales'. n.d.

<http://wales.gov.uk/topics/planning/policy/minerals/mineralsplanning/?lang=en>.

'Welsh Government | Minerals Technical Advice Note (MTAN) Wales 1: Aggregates (March

2004)'. n.d. <http://wales.gov.uk/topics/planning/policy/mineralstans/2888891/?lang=en>.

'———'. n.d. <http://wales.gov.uk/topics/planning/policy/mineralstans/2888891/?lang=en>.

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

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

Woodcock, N. H., and R. A. Strachan. 2012. Geological History of Britain and Ireland. 2nd ed. Chichester: Wiley-Blackwell.

Wrighton, C E, F M McEvoy, and R Bust. n.d. '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%2Fwww.bgs.ac.uk%2Fdownloads%2Fstart.cfm%3Fid%3D1333&ei=H6-RVPuICuOt7gaS-oClAw&usg=AFQjCNF8jZ_slczugMWuk01J1bVYoMNULg&sig2=zI09OtjnpwFvQ4S_BQfQtQ&bvm=bv.82001339,d.ZGU.