U.S. GEOLOGICAL SURVEY OPEN-FILE REPORT 97-134

U.S. GEOLOGICAL SURVEY COAL QUALITY DATABASE: VERSION 2.0

General References

- ASTM, 1992, Annual Book of American Society for Testing and Materials Standards: ASTM, Philadelphia, PA, 500p.
- Barnes, F.F., 1961, Coal Fields of the United States, Alaska--Sheet 2: U.S. Geological Survey Map, scale 1:5,000,000.
- Bragg, L.J., Oman, J.K., Tewalt, S.J., Oman, C.L., Rega, N.H., Washington, P.M., and Finkelman, R.B., 1994, The U.S. Geological Survey Coal Quality (COALQUAL) Database: Version 1.3: U.S. Geological Survey Open-file Report 94-205, CD-ROM.
- Bragg, L.J., Oman, J.K., Tewalt, S.J., Oman, C.L., Rega, N.H., Washington, P.M., and Finkelman, R.B., 1994, The U.S. Geological Survey Coal Quality (COALQUAL) Database: Version 2.0: U.S. Geological Survey Open-file Report 97-134, CD-ROM.
- Connor, J.J., Keith, J.R., and Anderson, B.M., 1976, Trace-metal variation in soils and sagebrush in the Powder River Basin, Wyoming and Montana: U.S. Geological Survey Journal of Research, v.4, no. 1, p. 49-59.
- Finkelman, Ari C., Wong, Chi-Jen J., Cheng, Anthony C., and Finkelman, Robert B., 1991, Bibliography of publications containing major, minor, and trace element data from the National Coal Resources Data System: U.S. Geological Survey Open-file Report 91-123, 17p.
- Finkelman, R.B., Oman, C.L., Bragg, L.J., and Tewalt, S.J., 1993, The U.S. Geological Survey Coal Quality Data Base: U.S. Geological Survey Open-file Report 94-177, 42 p. (on CD-ROM, see menu item OF94-177.PDF)
- Golightly, D.W. and Simon, F.O., 1989, Methods for sampling and inorganic analysis of coal: U.S. Geological Survey Bulletin 1823, 72p. (on CD-ROM, see menu item B1823.PDF)
- MacLachlan, M.E., Bryant, W.A., Judkins, T.W., Koozmin, E.D., Orndorff, R.C., Hubert, M.L., Murdock, C.R., Starratt, S.W., LeCompte, J.R., and Abston, C.C., 1992, Stratigraphic Nomenclature Databases for the United States, its possessions and territories: U.S. Geological Survey Digital Data Series DDS-6.
- Swanson, V.E. and Huffman, Jr., C., 1976, Guidelines for sample collecting and analytical methods used in the U.S. Geological Survey for determining chemical composition of coal: U.S. Geological Survey Circular 735, 11p. (on CD-ROM, see menu item C735.PDF)
- Trumbull, James, 1960, Coal Fields of the United States, exclusive of Alaska--Sheet 1: U.S. Geological Survey Map, scale 1:5,000,000.
- Tully, John, 1996, Coal Fields of the Conterminous United States, U.S. Geological Survey Open-file 96-92, Digital Map, scale 1:5,000,000.

- Wood, Jr., G.H., Kehn, T.M., Carter, M.D., and Culbertson, W.C., 1983, Coal Resource Classification System of the U.S. Geological Survey: U.S. Geological Survey Circular 891, 65p. (on CD-ROM, see menu item C891.PDF)
- U.S. Geological Survey, 1976, Coal Resource Classification System of the U.S. Bureau of Mines and U.S. Geological Survey-Mineral Resource Classification Systems of the U.S.B.M. and U.S.G.S.: U.S. Geological Survey Bulletin 1450-B, 7 p. (on CD-ROM, see menu item B1450B.PDF)

Published Data References by Year

1974

- McKay, E.J., and Bergin, M.J., 1974, Geologic map of the Maybell Quadrangle, Moffat County, Colorado: U.S. Geological Survey GQ-1145, scale 1:62,500.
- U.S. Geological Survey and Montana Bureau of Mines and Geology, 1974, Preliminary report of coal drill-hole data and chemical analyses of coal beds in Campbell County, Wyoming: U.S. Geological Survey Open-file Report 74-97, 241p. {Wyoming 111 samples}

1975

- ______, 1975, Geochemical survey of the western coal regions, second annual progress report, July 1975: U.S. Geological Survey Open-File Report 75-436, 132p.
- Glass, G.B., 1975, Analyses and measured section of 54 Wyoming coal samples (collected in 1974): Geological Survey of Wyoming Report of Investigations No. 11, 219p. {Wyoming 54 samples}
- U.S. Bureau of Land Management, 1975a, Trace elements, in Otter Creek study site (Powder River County, Montana) Resource and potential reclamation evaluation: U.S. Bureau Land Management (Denver, Colorado) EMRIA Report 1, pp. 61-79. {Montana 67 samples}
- U.S. Bureau of Land Management, 1975b, Trace elements, in Hanna Basin study site (Carbon County, Wyoming) Resource and potential reclamation: U.S. Bureau Land Management (Denver, Colorado) EMRIA Report 2, pp. 48-59. {Wyoming 15 samples}
- U.S. Bureau of Land Management, 1975c, Composition (of coal), in Alton study site (Kane County, Utah) Resource and potential reclamation evaluation: U.S. Bureau Land Management (Denver, Colorado) EMRIA Report 4, pp. 75-82. {Utah 8 samples}

- Bohor, B.F., and Pillmore, C.L., 1976, Tonstein occurrences in the Raton coal field, Colfax County, New Mexico: New Mexico Geological Society Guidebook, 27th Field Conference, Vermejo Park, pp. 177-183.
- Brownfield, M.E., 1976, Geophysical logs of seventeen holes drilled in 1976 in the Yampa coal field, northwestern Colorado: U.S. Geological Survey Open-file Report 76-817, 82p.

- Garrigues, R.S., 1976, Geophysical logs of holes drilled in 1976 in the Lower White River coal field, Moffat and Rio Blanco counties, Colorado: U.S. Geological Survey Open-file Report 76-871, 11p.
- McKay, E.J. and Landis, E.R., 1976, Preliminary report on coal resources of the Otter Creek EMRIA site, Powder River County, Montana: U.S. Geological Survey Open-file Report 76-387, 49p. {Montana 67 samples}
- Muller, S.C., 1976, Lithologic and geophysical logs of seven holes drilled in 1975 in the Yampa and Dansforth Hills coal fields, northwestern Colorado: U.S. Geological Survey Open-file Report 76-383, 180p.
- Pillmore, C.L. and Hatch, J.R., 1976, Geochemical data on selected coal beds, Raton coal field, Colfax County, New Mexico: U.S. Geological Survey Open-file Report 76-542, 23p. {New Mexico 26 samples}
- Reheis, M.J., 1976, Reconnaissance drilling in the Danforth Hills coal field, Moffat and Rio Blanco counties, Colorado, August-September, 1976: U.S. Geological Survey Open-file Report 76-870.
- Struble, R.A., Collins, H.R., DeLong, R.M, 1976, Coal resources of a portion of the Pawpaw Creek watershed, Monroe, Noble, and Washington Counties: Ohio Division of Geological Survey Geological Note No. 4, 16p. {Ohio 5 samples}
- Swanson, V.E., Medlin, J.H., Hatch, J.R., Coleman, S.L., Wood, G.H., Jr., Woodruff, S.D., Hildebrand, R.T., 1976, Collection, chemical analysis and evaluation of coal samples in 1975: U.S. Geological Survey Open-file Report 76-468, 503p. {Twenty-eight states 799 samples}
- U.S. Bureau of Land Management, U.S. Bureau of Reclamation, U.S. Geological Survey, 1976, Bisti West study Site, Bisti coal field--Resource and Potential Reclamation Evaluation: EMRIA Report 5-1976, 338p.
- U.S. Geological Survey and Montana Bureau of Mines and Geology, 1976, Preliminary report of coal drill hole data and chemical analyses of coal beds in Campbell and Sheridan Counties, Wyoming: Custer, Prairie, and Garfield Counties, Montana; and Mercer County, North Dakota: U.S. Geological Survey Open-file Report 76-319, 377p. {Wyoming 15 samples; North Dakota 4 samples}
- Wedge, W.K., Bhatia, D.M.S., and Rueff, A.W., 1976, Chemical analyses of selected Missouri coals and some statistical implications: Missouri Department of Natural Resources, Geological Survey Report of Investigations 60, 40p. {Missouri 30 samples}

- Arizona Bureau of Mines, 1977, Chemical analyses of coal samples from the Black Mesa Field, Arizona: Arizona Bureau of Mines, Circular No. 18, 14p. {Arizona 7 samples}
- Boreck, D.L., Jones, D.C., Murray, D.K., Schultz, J.E., and Suek, D.C., 1977, Colorado coal analyses, 1975: Analyses of 64 samples collected in 1975: Colorado Geological Survey Information Series No. 7, 112p. {Colorado 64 samples}
- Hildebrand, R.T., and Hatch, J.R., 1977, Chemical analyses of lignite from the Sentinel Butte Member of the Fort Union Formation, Beulah Trench Study area, in U.S. Department of Interior, Beulah Trench Study area, Mercer County, North Dakota: EMRIA Report No. 10, Appendix D, 24p. {North Dakota 24 samples}

- Jentgen, R.W., and Fassett, J.E., 1977, Sundance-Bisti-Star Lake 1976 drilling in McKinley and San Juan counties, northwestern New Mexico: U.S. Geological Survey Open-File Report 77-369, 80p.
- Madden, D.H., 1977, Exploratory drilling in the Coalmont coal field, Jackson County, Colorado, June-November 1977: U.S. Geological Survey Open-File Report 77-887, 138p.
- Madden, D.H., 1977, Exploratory drilling in the McCallum coal field, Jackson County, Colorado, August-November 1977: U.S. Geological Survey Open-File Report 77-888, 80p.
- Roehler, H.W., 1977, Geologic map of the Sand Butte Rim NW Quadrangle, Sweetwater County, Wyoming: U.S. Geological Survey GQ-1362, scale 1:24,000
- Roehler, H.W., 1977, Geologic map of the Cooper Ridge NE Quadrangle, Sweetwater County, Wyoming: U.S. Geological Survey GQ-1363, scale 1:24,000
- Ryer, T.A., 1977, Geology and coal resources of the Roidel Creek EMRIA site and surrounding area Routt County, Colorado: U.S. Geological Survey Open-File Report 77-303, 31p., 1 sheet.
- Sanchez, J.D., and Hobbs, R.G., 1977, Chemical analysis, physical property tests, and lithologic description of cores and cuttings of lignite and overburden rocks from an area near Watkins, Colorado: U.S. Geological Survey Open-File Report 77-628, 22p.

- Beach, L.J., and Jentgen, R.W., 1978, Coal test drilling for the San Juan mine extension, San Juan County, New Mexico, 1978: U.S. Geological Survey Open-file Report 78-960, 87p.
- Botoman, G. and Stith, D.A., 1978, Analyses of Ohio coals: Ohio Division of Geological Survey Information Circular No. 47, 148p. {Ohio 151 samples}
- Cox, E.R., 1978, Preliminary study of wastewater movement in Yellowstone National Park, Wyoming, July 1975 through September 1976: U.S. Geological Survey Open-file Report 78-227, 62p.
- Culbertson, W.C., Hatch, J.R., and Affolter, R.H., 1978, Geology and coal resources of Hanging Woman Creek study area, Big Horn and Powder River Counties Montana: U.S. Geological Survey Open-file Report 78-506, 37p. {Montana 13 samples}
- Danilchik, W., 1978, Preliminary results of 1978 coal exploratory drilling in the Trinidad-Raton coal region, Las Animas County, Colorado: U.S. Geological Survey Open-file Report 78-1101, 19p., 1 sheet.
- Eager, G.P., 1978, Geophysical logs of coal test drill holes in the Grand Mesa coal field, Delta and Mesa counties, Colorado: U.S. Geological Survey Open-file Report 78-540, 97p.
- Glass, G.B., 1978, Coal analyses and lithologic descriptions of five core holes drilled in the Carbon Basin of south-central Wyoming: Wyoming Geological Survey Report of Investigation No. 16, 97p. {Wyoming 18 samples}
- Haines, D.V., 1978, Core-hole drilling and coal analysis report for nine holes drilled during 1977 in the Nucla coal field, Montrose County, Colorado: U.S. Geological Survey Open-file Report 78-899, 37p.
- Hatch, J.R., and Affolter, R.H., 1978, Chemical analyses of lignite from the Sentinel Butte Member of the Fort Union Formation, Dunn Center field, Dunn County, North Dakota: U.S. Geological Survey Openfile Report 78-1078, 42p. {North Dakota 40 samples}

- Hatch, J.R., Affolter, R.H., and Farrow, R.A., 1978, Chemical analyses of coal and shale from the Wasatch Formation in core hole B-1, City of Buffalo, Johnson County, Wyoming: U.S. Geological Survey Open-file Report 78-901, 28p. {Wyoming 29 samples}
- Reheis, M.J., 1978, Drilling during 1978 int the Dansforth Hills coal field, Easton Gulch, Devils Hole Gulch, Axial and Ninemile Gap quadrangles, Moffat and Rio Blanco Counties, Colorado: U.S. Geological Survey Open-file Report 78-1031, 38p.
- Roehler, H.W., 1978, Geologic map of the Chicken Creek SW Quadrangle, Sweetwater County, Wyoming and Moffat County, Colorado: U.S. Geological Survey GQ-1443, scale 1:24,000
- Schneider, G.B., 1978, Coal resources of the Fish Creek EMRIA site, Routt County, Colorado: U.S. Geological Survey Open-file Report 78-848, 28p.
- Stevenson, A.E., 1978, Lithologic and geophysical logs for eight holes drilled during 1978 in the Rattlesnake Butte Quadrangle, Routt County, Colorado: U.S. Geological Survey Open-file Report 78-1048, 28p.

- Affolter, R.H., and Hatch, J.R., 1979, Chemical analyses of coal and coal-associated rock samples from Rosebud and Mckay beds, Tongue River Member of the Fort Union Formation, Colstrip coal deposit, Rosebud County, Montana: U.S. Geological Survey Open-file Report 79-1098, 44p. {Montana 61 samples}
- Affolter R.H., and Hatch J.R., and Culbertson, W.C., 1979a, Chemical analyses of coal from the Tongue River Member, Fort Union Formation, Moorhead and southeastern part of the Northward Extension of the Sheridan coal fields, Powder River and Big Horn Counties, Montana: U.S. Geological Survey Open-file Report 79-538. 68p. {Montana 83 samples}
- Affolter, R.H., Hatch, J.R., Matson, R.E., and Sauer, L.A., 1979b, Chemical analyses of coal from the Tongue River Member, Fort Union Formation, Decker coal deposit, Big Horn county, Montana: U.S. Geological Survey Open-file Report 79-772, 39p. {Montana 50 samples}
- Affolter, R.H., Hatch, J.R., and McKay, E.J., 1979c, Chemical analyses of coal from the Knobloch and Flowers-Goodale beds, Tongue River Member of the Fort Union Formation, Otter Creek EMRIA study site, Powder River County, Montana: U.S. Geological Survey Open-file Report 79-859, 42p. {Montana 50 samples}
- Affolter, R.H., Hatch, J.R., and Ryer, T.A., 1979d, Chemical analyses of coal and shale from the Ferron Sandstone Member of the Mancos shale, Emery coal field, Emery County, Utah: U.S. Geological Survey Open-file Report 79-858, 35p. {Utah 32 samples}
- Chapin, C.E., Osburn, G.R., Hook, S.C., Massingill, G.L., and Frost, S.J., 1979, Coal, Uranium, Oil and Gas Potential of the Riley-Puertecito Area, Socorro County, New Mexico: New Mexico Bureau of Mines and Mineral Resources Open-file Report 103, 33p.
- Danilchik, W., Schultz, 1979, Geologic and coal outcrop map of the Madrid Quadrangle, Las Animas County, Colorado: U.S. Geological Survey Open-file Report 79-377, scale 1:24,000.
- Danilchik, W., Schultz, 1979, Geologic and coal outcrop map of the Weston Quadrangle, Las Animas County, Colorado: U.S. Geological Survey Open-file Report 79-927, scale 1:24,000.

- Danilchik, W., Schultz, J.E., and Tremain, C.M., 1979, Content of absorbed methane in coal from four core holes in the Raton and Vermejo formation, Las Animas County, Colorado: U.S. Geological Survey Open-file Report 79-762, 21p., 2 sheets.
- Eager, G.P., 1979, Geophysical logs of coal test drill holes in the Grand Mesa coal field, Delta County, Colorado: U.S. Geological Survey Open-file Report 79-327, 21p.
- Frost, S.J., Tabet, D.R., and Campbell, F.W., 1979, Coal Exploratory Drilling in the Datil Mountain Coal Field: New Mexico Bureau of Mines and Mineral Resources Open-file Report 111, 49p.
- Gualtieri, J.L., 1979, Preliminary results of coal exploratory drilling in the Book Cliffs coal region, Garfield County, Colorado, and Grand County, Utah: U.S. Geological Survey Open-file Report 79-999, 57p., 5 sheets.
- Hatch, J.R., and Affolter, R.H., 1979, Chemical analyses of lignite and lignitic shale, in M. Glenn, Coal resources and coal quality of Pumpkin Creek EMRIA site, Powder River County, Montana: U.S. Geological Survey Open-file Report 79-589, pp. 28-48 {Montana 18 samples}
- Hatch, J.R., and Barclay, C.S.V., 1979, Chemical analyses of deep-core coal and shale samples from the Almond Formation, Washakie Basin, Sweetwater County, Wyoming: U.S. Geological Survey Open-file Report 79-1249, 17p. {Wyoming 5 samples}
- Hatch, J.R., Affolter, R.H., and Davis, F.D., 1979a, Chemical analyses of coal from the Blackhawk Formation, Wasatch Plateau coal field, Carbon, Emery, and Sevier Counties, Utah: in Coal Studies, Utah Geological and Mineral Survey, Special Studies 49, pp. 69-102. {Utah 52 samples}
- Hatch, J.R., Affolter, R.H., and Law, B.E., 1979, Chemical analyses of coal from the Emery and Ferron Sandstone Members of the Mancos Shale, Henry Mountains field, Wayne and Garfield Counties, Utah: U.S. Geological Survey Open-file Report 79-1097, 25p. {Utah 18 samples}
- Hatch, J.R., Madden, D.H., and Affolter, R.H., 1979, Chemical analyses of coal and coal-associated rock samples from the Coalmont Formation, McCallum and Coalmont areas, North Park, Jackson County, Colorado: U.S. Geological Survey Open-file Report 79-1099, 43p. {Colorado 44 samples}
- Hildebrand, R.T., Hatch, J.R., and Henry, C.D., 1979, Chemical analyses of lignite from the Wilcox Group, Texas region, central and eastern Texas: U.S. Geological Survey Open-file Report 79-1250, 36p. {Texas 45 samples}
- Kistner, F.B., Hollomon, G.A., and Coppock, D.G., 1979, Lithologic and geophysical logs and coal analyses from test holes drilled during 1977 in Converse and Campbell counties, Wyoming: U.S. Geological Survey Open-file Report 79-1173, 88p.
- Massingill, G.L., 1979, Geology of Riley-Puertecito Area, Southeastern Margin of Colorado Plateau, Socoro County, New Mexico: New Mexico Bureau of Mines and Mineral Resources Open-file Report 107, 301p.
- Schneider, G.B., Weide, D.L., Mytton, J.W., and Scott, G.R., 1979, Geologic map of the Pueblo Bonito NW Quadrangle, San Juan County, New Mexico: U.S. Geological Survey MF-117, scale 1:24,000.
- Schneider, G.B., Hildebrand, R.T., and Affolter, R.H., 1979, Coal resources and chemical analyses of coal from the Fruitland Formation Kimbeto EMRIA site, San Juan County, New Mexico: U.S. Geological Survey Open-file Report 79-1090. 38p. {New Mexico 17 samples}
- Scott, G.R., O'Sullivan, R., and Mytton, J.W., 1979, Reconnaissance geologic map of the Alamo Mesa West Quadrangle, San Juan County, New Mexico: U.S. Geological Survey MF-1074, scale 1:24,000.

- Weide, D.L., Mytton, J.W., and Scott, G.R., 1979, Geologic map of the Fire Rock Well Quadrangle, San Juan County, New Mexico: U.S. Geological Survey MF-1124, scale 1:24,000.
- Zubovic, P., Oman, C.L., Coleman, S.L., Bragg, L.J., Kerr, P.T., Kozey, K.M., Simon, F.O., Rowe, J.J., Medlin, J.H., and Walker, F.E., 1979, Chemical analysis of 617 coal samples from the eastern United States: U.S. Geological Survey Open-file Report 79-665, 452p. {Eight states 617 samples}

- Affolter, R.H., and Hatch, J.R., 1980a, Chemical analyses of coal from the Dakota and Straight Cliffs Formations, Southwestern Utah Region, Kane and Garfield Counties, Utah: U.S. Geological Survey Open-file Report 80-138, 32p. {Utah 26 samples}
- Affolter, R.H. and Hatch, J.R., 1980b, Chemical analyses of lignite from the Fort Union Formation, McCone, Richland, Dawson, and Wibaux Counties, Montana and Golden valley County, North Dakota: U.S. Geological Survey Open-File Report 80-179, 44p. {Montana 44 samples; North Dakota 13 samples}
- Affolter, R.H., Eager, G.P., and Hatch, J.R., 1980, Chemical analyses of coal from the Mesa Verde Formation, Grand Mesa coal field, Delta and Mesa Counties, Colorado: U.S. Geological Survey Openfile Report 80-980, 39p. {Colorado 45 samples}
- Couchot, M.L., Crowell, D.L., Van Horn, R.G., and Struble, R.A., 1980, Investigation of the deep coal resources of portions of Belmont, Guernsey, Monroe, Noble, and Washington Counties, Ohio: Ohio Division of Geological Survey Report of Investigations No. 116, 49p. {Ohio 94 samples}
- Hatch, J.R., Affolter, R.H., and Law, B.E., 1980, Chemical analyses of coal from Emery and Ferron Sandstone Members of Mancos Shale, Henry Mountains field, Wayne and Garfield Counties, Utah: in Proceedings of the 1980 Henry Mountains Symposium, Utah Geological Association, pp. 337-342. {Utah 18 samples}
- Hatch, J.R., and Affolter, R.H., 1980, Chemical analyses of coal and coal-associated shale samples from the lower part of the Fort Union Formation, Little Snake River coal field, Sweetwater and Carbon Counties, Wyoming: U.S. Geological Survey Open-file Report 80-92, 31p. {Wyoming 31 samples}
- Hobbs, R.G., 1980, Analyses of coal and selected rock samples from the USGS 1975 Drilling Recluse Geologic Analysis Area Northern Campbell County, Wyoming: U.S. Geological Survey Open-file Report 80-1161, 78p. {Wyoming - 133 samples}
- Hobbs, R.G., 1980, Coal exploratory drilling, core description and coal analyses, Recluse geologic analysis area, northern Campbell County, Wyoming: U.S. Geological Survey Open-file Report 80-1160, 55p.
- Kistner, F.B., Donatich, A.J., and Holloman, G.A., 1980, Lithologic and geophysical logs and coal analyses from test holes drilled during 1978 in Campbell and Converse counties, Wyoming: U.S. Geological Survey Open-file Report 80-851, 183p.
- Lewis, R.C., and Harksen, J.C., 1980, Coal geology of the Wibaux-Beach area, Wibaux County, Montana, and Golden Valley County, North Dakota: U.S. Geological Survey Open-file Report 80-166, 40p.
- M'Gonigle, J.W., 1980, Geologic and geochemical results of 1978 coal exploratory drilling in the Upper Cretaceous Frontier Formation, at six sites in Lincoln and Uinta counties, Wyoming: U.S. Geological Survey Open-file Report 80-1244, 48p.

- Wedge, W.K., and Hatch, J.R., 1980, Chemical Composition of Missouri Coals: Missouri Department of Natural Resources, Geological Survey Report of Investigations 63, 102p. {Missouri 113 samples}
- Weide, D.L., Mytton, J.W., and Scott, G.R., 1980, Geologic map of the Pueblo Alto Trading Post Quadrangle, McKinley County, New Mexico: U.S. Geological Survey MF-1220, scale 1:24,000.
- Zubovic, P., Oman, C.L., Bragg, L.J., Coleman, S.L., Rega, N. H., LeMaster, M.E., Rose, H.J., Golightly, D.W., and Puskas, J., 1980, Chemical analysis of 659 coal samples from the eastern United States: U.S. Geological Survey Open-file Report 80-2003, 513p. {Eight states 659 samples}

- Affolter, R.H., Eager, G.P., and Hatch, J.R., 1981, Chemical analyses of coal from the Mesa Verde Formation, Grand Mesa coal field, Delta and Mesa Counties Colorado, in Khalsa, N.S. and Ladwig, L.R., editors, Colorado Coal Analyses 1976-1979, Colorado Geological Survey Information Series 10, Section G, pp. 333-364. {Colorado 45 samples}
- Affolter, R.H., Simon, F.O., and Stricker, G.D., 1981, Chemical analyses of coal from the Healy, Kenai, Seldovia and Utokok River 1:250,000 quadrangles Alaska: U.S. Geological Survey Open-File Report 81-654, 88p. {Alaska 118 samples}
- Affolter, R.H., Simon, F.O., and Stricker, G.D., 1981, Analysis of coal samples from the Healy, Kenai, Seldovia, and Utukok River Quadrangles, Alaska, in Proceedings of the 1980 Focus on Alaskan Coal Symposium, pp. 236-266. (Same samples as in preceding paper of 118 Alaska samples)
- Botoman, G. and Stith, D.A., 1981, Analyses of Ohio coals, 1977-1978: Ohio Division of Geological Survey Information Circular No. 50, 54p. {Ohio 315 samples}
- Culbertson, W.C., 1981, Coal exploratory holes drilled in 1980 in the Birney 1 degree by 1/2 degree quadrangle, Powder River and Big Horn counties, Montana: U.S. Geological Survey Open-File Report 81-1329, 54p.
- Hatch, J.R., Madden, D.H., and Affolter, R.H., 1981, Chemical analyses of coal and coal-associated rock samples from the Coalmont Formation, McCallum and Coalmont area, North Park, Jackson County, Colorado in Khalsa, N.S. and Ladwig, L.R. eds., Colorado Coal Analyses 1976-1979, Colorado Geological Survey Information Series 10, Section C, pp. 105-140. {Colorado 22 samples}
- Henderson, J.A., Jr., Oman, C.L., and Coleman, S.L., 1981, Analysis of coal samples collected 1975-1977: Virginia Division of Mineral Resources Publication 33, 135p. (Replaced by paper 1992)
- Hildebrand, R.T., 1981, Chemical analyses of coal from the Krebs Group (Pennsylvanian), Arkoma basin, eastern Oklahoma: U.S. Geological Survey Open-file Report 81-894, 42p. {Oklahoma 51 samples}
- Hildebrand, R.T., and Garrigues, R.S., 1981, Geology and Chemical analyses of coal, Mesaverde Group (Cretaceous), Lower White River coal field, Moffat and Rio Blanco Counties, Colorado: U.S. Geological Survey Open-file Report 81-597, 27p. {Colorado 13 samples}
- Hildebrand, R.T., Garrigues, R.S., Meyer, R.F., and Reheis, M.C., 1981, Geology and chemical analyses of coal and coal-associated rock samples, Williams Fork Formation (Upper Cretaceous), northwestern Colorado: U.S. Geological Survey Open-file Report 81-1348, 103p. {Colorado 117 samples}
- Hildebrand, R.T., Clardy, B.F., and Holbrook, D.F., 1981b, Chemical analyses of lignite from the Wilcox and Claiborne Groups (Eocene), southern and eastern Arkansas: Arkansas Geological Commission Information Circular 28, 57p. {Arkansas 53 samples}

- Kahlsa, N.S., 1981, Chemical analyses of coal samples from the San Juan River Region: in Khalsa, N.S. and Ladwig, L.R., 1981, Colorado Coal Analysis 1976-1979: Colorado Geological Survey, Information Series 10, Section E, pp. 213-240. {Colorado 12 samples}
- Khalsa, N.S. and Campbell, C.R., 1981, Chemical analyses of coal samples from the Denver Region: in Khalsa, N.S. and Ladwig, L.R., 1981, Colorado Coal Analysis 1976-1979: Colorado Geological Survey, Information Series 10, Section A, pp. 33-63. {Colorado 7 samples}
- Khalsa, N.S. and Schultz, J.E., 1981a, Chemical analyses of coal samples from the Green River Region: in Khalsa, N.S. and Ladwig, L.R., 1981, Colorado Coal Analysis 1976-1979: Colorado Geological Survey, Information Series 10, Section B, pp. 65-104. {Colorado - 21 samples}
- Kahlsa, N.S. and Schultz, J.E., 1981b, Chemical analyses of coal samples from the Uinta Region: in Khalsa, N.S. and Ladwig, L.R., 1981, Colorado Coal Analysis 1976-1979: Colorado Geological Survey, Information Series 10, Section F, pp. 241-332. {Colorado 36 samples}
- Khalsa, N.S. and Staker, R.O., 1981, Chemical analyses of coal samples from the Raton Mesa and Canon City Field: in Khalsa, N.S. and Ladwig, L.R., 1981, Colorado Coal Analysis 1976-1979: Colorado Geological Survey, Information Series 10, Section D, pp. 141-212. {Colorado 33 samples}
- Oman, C.L., Bragg, L.J., Nock, H.M., Schwarz, L.J., Harris, J.L., Jr., Rega, N.H., and Crowley, S.S., 1981, Chemical analysis of 45 Maryland coal samples: U.S. Geological Survey Open-file Report 81-1099, 56p. {Maryland 45 samples}
- Robinson, L.N., Culbertson, W.C., and Affolter, R.H., 1981, Geology, coal resources, and coal quality of the Prairie Dog Creek EMRIA study area, Rosebud County, Montana: U. S. Geological Survey Openfile Report 81-1136, 26p. {Montana 39 samples}
- Warlow, R.C., Oman, C.L., and Brookes, A.E., 1981, Chemical Analysis and Evaluation of 22 Coal Samples from the Otter Creek Wilderness and Adjacent Area, Randolph and Tucker Counties, West Virginia: U.S. Geological Survey Open-file Report 81-351, 34p. {West Virginia 22 samples}

- Affolter, R.H., and Kirschbaum, M.A., 1982, Chemical analyses of lignite from the Sentinel Butte Member of the Paleocene Fort Union Formation, North Beaulah EMRIA study site, Mercer County, North Dakota: U.S. Geological Survey Open-file Report 82-131, 21p. {North Dakota 10 samples}
- Arndt, H.H., Hardie, J.K., and Kehn, T.M., 1982, Results of exploratory drilling for lignite in 1979, Fort Peck Indian Reservation, Daniels, Roosevelt, and Sheridan Counties, Montana: U.S. Geological Survey Open-file Report 82-480, 157p.
- Meyer, R.F., and Brown, R.R., 1982, Geophysical logs of nine holes drilled in 1978 in the Yampa coal field, Hamilton and Pagoda quadrangles, Moffat County, Colorado: U.S. Geological Survey Open-file Report 82-475, 34p.
- Trent, V.A., Medlin, J.H., Coleman, S.L., and Stanton, R.W., 1982, Chemical analyses and physical properties of 12 coal samples from the Pocahontas Field, Tazewell County, Virginia, and McDowell County, West Virginia: U.S. Geological Survey Bulletin 1528, 37p. {West Virginia 12 samples}

- Anderson, O.J, and Mapel W.J., 1983, Geology and Coal Resources of the Shoemaker Canyon SE Quadrangle, Cibola County, New Mexico: New Mexico Bureau of Minew and Mineral Resources Open-file Report 172, 32p.
- Sanchez, J.D., 1983, Chemical analysis of coal from the Blackhawk Formation, Wasatch Plateau coal field, Sevier County, Utah: U.S. Geological Survey Open-file Report 83-363, 13p. {Utah 3 samples}

- Glass, G. B., 1984, Analyses and measured sections of 25 coal samples from the Hanna coal field of south-central Wyoming (collected between 1975 and 1979): Geological Survey of Wyoming Report of Investigations No. 27, 104p. {Wyoming 25 samples}
- Hatch, J.R., Avcin, M.J., and Van Dorpe, P.E., 1984, Element geochemistry of Cherokee Group coals (Middle Pennsylvanian) from south-central and southeastern Iowa: Iowa Geological Survey Technical Paper No. 5, 108p. {Iowa 106 samples}

1985

- Henderson, J.A., Jr., Wilkes, G.P., Bragg, L.J., and Oman, C.L., 1985, Analyses of coal samples collected in Virginia 1978-1980: Virginia Division of Mineral Resources Publication 63, 56p. {Virginia - 83 samples}
- Johnson, E.A., and Hook, J.L., 1985, Geophysical logs and sample analysis for 10 holes drilled during 1981 in the western part of the Yampa coal field, Moffat County, Colorado: U.S. Geological Survey Openfile Report 85-37, 72p.

- Affolter, R.H. and Stricker, G.D., 1986, Variations in element distribution of coal from the Usibelli Mine, Healy, Alaska: in Focus on Alaska's Coal, 1986, P. D. Rao, ed., Mineral Industry Research Laboratory Report no. 72p. 91-99. {Alaska 8 samples}
- Botoman G. and Stith, D.A., 1986, Analyses of Ohio coals, 1979-1980: Ohio Division of Geological Survey Information Circular No. 52, 26p. {Ohio 169 samples}
- Currens, J.C., Bragg, L.J., and Hower, J.C., 1986, Analyses of coal samples from the Princess District, Kentucky (Boyd, Carter, Greenup, and Lawrence Counties and part of Lewis County): Kentucky Geological Survey Information Circ. 18, Ser. XI, 128p. {Kentucky 42 samples}
- Hildebrand, R.T., 1986, Chemical analyses of coal from the Anderson coal deposit, Johnson County, Wyoming: U.S. Geological Survey Open-file Report 86-575, 14p. {Wyoming 30 samples}
- O'Sullivan, R.B., Mytton, J.W., Strobell, J.D., Jr., Scott, G.R., and Erpenbeck, M.F., 1979, Preliminary geologic map of the Tanner Lake Quadrangle, San Juan County, New Mexico: U.S. Geological Survey MF-1864, scale 1:24,000.
- Tewalt, S.J., 1986, Chemical characterization of Texas lignite: Texas Bureau of Economic Geology Geological Circular 86-1, 54p. {Texas 128 samples}
- Warlow, R.C., Bragg, L.J., Windolph, J.F., Jr., Hickling, N.L., Oman, J.K., Kerr, P.T., Baker, J.W., 1986, Chemical analyses and evaluation of 40 samples from the Upper Cretaceous coal beds from the Wind

River Basin, Wyoming: U. S. Geological Survey Open-file Report 86-187, 51p. {Wyoming - 40 samples}

1987

- Coleman, S.L., Crawford, T.J., and Medlin, J.H., 1987, Analyses of coal from Northwest Georgia, Georgia Geological Survey, Information Circular 76, 321p. {Georgia 47 samples; Alabama 8 samples}
- Currens, J.C., Bragg, L.J., and Hower, J.C., 1987a, Analyses of coal samples from the Hazard District, Kentucky (Breathitt, Knott, Leslie, and Perry Counties, and parts of Letcher and Harlan Counties): Kentucky Geological Survey Information Circ. 19, Ser. XI, 381p. {Kentucky 132 samples}
- Currens, J.C., Bragg, L.J., and Hower, J.C., 1987b, Analyses of coal samples from the Big Sandy District, Kentucky (Floyd, Johnson, Martin, and Pike Counties): Kentucky Geological Survey Information Circ. 20, Ser. XI, 421p. {Kentucky 146 samples}
- Currens, J.C., Bragg, L.J., and Hower, J.C., 1987c, Analyses of coal samples from the Southwestern District, Kentucky (Clay, Jackson, Knox, Laurel, Lee, McCreary, Owsley, Whitley, and parts of Bell, Clinton, Estill, Madison, Pulaski, Rockcastle, and Wayne Counties): Kentucky Geological Survey Information Circ. 21, Ser. XI, 338p. {Kentucky - 119 samples}
- Currens, J.C., Bragg, L.J., and Hower, J.C., 1987d, Analyses of coal samples from the Upper Cumberland District, Kentucky (parts of Bell, Harlan, Letcher, and Whitley Counties): Kentucky Geological Survey Information Circ. 22, Ser. XI, 178p. {Kentucky 57 samples}
- Currens, J.C., Bragg, L.J., and Hower, J.C., 1987e, Analyses of coal samples from the Licking River District, Kentucky (Elliott, Magoffin, Morgan, and Wolfe Counties, and parts of Menifee, Powell and Rowan Counties): Kentucky Geological Survey Information Circ. 23, Ser. XI, 127p. {Kentucky 41 samples}
- Haley, B.R., 1987, Resources of low-volatile bituminous coal and semi-anthracite in west-central Arkansas, 1978: U.S. Geological Survey Bull. 1632. 54p. {Arkansas 24 samples}

1988

- Botoman, G. and Stith, D.A., 1988, Analyses of Ohio coals, 1982-1984: Ohio Division of Geological Survey Information Circular No. 55, 17p. {Ohio 109 samples}
- Brownfield, M.E., and Anderson, K., 1988, Geologic map and coal sections of the Lay SE quadrangle, Moffat County, Colorado: U.S. Geological Survey Coal Investigations Map C-117.
- Carey, M.A., Roberts, S.B., and Clark, A.C., 1988, Chemical analyses for nine coal samples from the Sagwon Member (Tertiary) of the Sagavanirktok Formation, North Slope, Alaska: U.S. Geological Survey Open-file Report 88-678, 17p. {Alaska 9 samples} (prox/ult/S-form data in OFR 88-21)

1989

Tewalt, S.J., Hildebrand, R.T., Finkelman, R.B., 1989, Analyses of lignites from the Fort Union Region, North Dakota and Montana, U.S. Geological Survey Open-file Report 89-285, 162p. {North Dakota - 270 samples; Montana - 135 samples}

- Biewick, L.R., Hardie, J.K., Williamson, C., and Arndt, H.H., 1990, Evaluation of coal resources in the eastern part of the Fort Peck Indian Reservation, Montana, U.S. Geological Survey Bull. 1896, 136p. {Montana 37 samples}
- Tewalt, S.J., and Finkelman, R.B., 1990, Analytical data from bituminous coals and associated rocks from Arkansas, Iowa, Kansas, Missouri, Nebraska, and Oklahoma, U.S. Geological Survey Open-file Report 90-669. {Five states 71 samples}

- Oman, C.L., Finkelman, R.B., and Talley, R.T., 1992, Analysis of ten coal samples from the Michigan Basin: U.S. Geological Survey Open-file Report 93-180, 16p.
- Oman, C.L., Hassenmueller, W.H., and Bragg, L.J., 1992, Indiana coal and associated rock samples collected from 1975 to 1977: U.S. Geological Survey Open-file Report 93-0111, 133p.
- Wilkes, G.P., Bragg, L.J., Hostettler, K.K., Oman, C.L., and Coleman, S.L., 1992, Coal sample analyses from the Southwest Virginia coal field, Virginia Division of Mineral Resources Pub. 122, 431p.