

**U.S. Department of the Interior
U.S. Geological Survey**

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Lists 1110–1112—Publications issued January–March 2001

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The U.S. Geological Survey Publications Data Base includes comprehensive bibliographic information on USGS reports and maps published from 1880 to the present and references for non-USGS publications with USGS authors published from 1983 to date—a total of approximately 110,000 publications. Free public access to the data base is provided as a public service by the U.S. Geological Survey at <http://usgs-georef.cos.com> and through the USGS home page at <http://www.usgs.gov>.

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**ANNOUNCING ONLINE ACCESS TO
“PRELIMINARY DETERMINATION OF EPICENTERS”**

“Preliminary Determination of Epicenters” (PDE) bulletins list parameters (date, time, location, magnitude, number of stations used, geographic region, and comments) for all earthquakes located by the USGS National Earthquake Information Center for a given time period. Weekly and monthly PDE bulletins are available as data files through anonymous ftp. Information concerning the availability of PDE bulletins can be found on the World Wide Web at http://neic.usgs.gov/neis/data_services/ftp_files.html. The PDE is no longer available from the Government Printing Office as a paper subscription publication.

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* No new publications in this series for this quarter.

NEW PUBLICATIONS OF SPECIAL INTEREST



Fact Sheet 0003-01

Center for Integration of Natural Disaster Information. 2001. 2 p. (Supersedes Fact Sheet 166-98.) Available on the web at <http://mac.usgs.gov/mac/isb/pubs/factsheets/fs00301.pdf>

The U.S. Geological Survey's Center for Integration of Natural Disaster Information (CINDI) is a research and operational facility that explores methods for collecting, integrating, and communicating information about the risks posed by natural hazards and the effects of natural disasters. The U.S. Geological Survey (USGS) is mandated by the Robert Stafford Act to warn citizens of impending landslides, volcanic eruptions, and earthquakes. The USGS also coordinates with other Federal, State, and local disaster agencies to monitor threats to communities from floods, coastal storms, wildfires, geomagnetic storms, drought, and outbreaks of disease in wildlife populations.



Fact Sheet 0001-01

Earthquake shaking; finding the “hotspots,” by Ned Field, Lucile Jones, Tom Jordan, Mark Benthien and Lisa Wald. 2001. 2 p. Available on the web at <http://geopubs.wr.usgs.gov/fact-sheet/fs001-01/>

A new Southern California Earthquake Center study has quantified how local geologic conditions affect the shaking experienced in an earthquake. The important geologic factors at a site are softness of the rock or soil near the surface and thickness of the sediments above hard bedrock. Even when these “site effects” are taken into account, however, each earthquake exhibits unique “hotspots” of anomalously strong shaking. Better predictions of strong ground shaking will therefore require additional geologic data and more comprehensive computer simulations of individual earthquakes.



FORMAL REPORTS

DIGITAL DATA SERIES

The Digital Data Series encompasses a broad range of digital data, including computer programs, interpreted results of investigations, comprehensive reviewed data bases, spatial data sets, digital images and animation, and multimedia presentations that are not intended for printed release. Scientific reports in this series cover a wide variety of subjects on all facets of U.S. Geological Survey investigations and research that are of lasting scientific interest and value. Releases in the Digital Data Series offer access to scientific information that is available in digital form; the information is primarily for viewing, processing, and (or) analyzing by computer.

DDS-0058. NEVADA. Geologic and geophysical characterization studies of Yucca Mountain, Nevada, edited by J. W. Whitney and W. R. Keefer. Prepared in cooperation with the U.S. Department of Energy, Nevada Operations Office. 2000. One CD-ROM. \$32. Available on the web at <http://greenwood.cr.usgs.gov/pub/dds/dds-058/>

Requirements for MAC OS: Apple Power Macintosh or compatible computer with Power PC processor, Mac OS 7.1.2 or later; 4.5 MB of RAM; 8 MB of available hard disk space; CD-ROM drive; and recommended 6.5 MB of RAM. Requirements for Windows: I486 or Pentium processor computer; Microsoft Windows 95, Windows 98, or Windows NT 4.0 with Service Pack 3 or later; 8 MB of RAM (Windows 95 and Windows 98) or 16 MB of RAM (Windows NT); 10 MB of available hard disk space; CD-ROM drive; and recommended 16 MB of RAM (Windows 95 and Windows 98); or 24 MB of RAM (Windows NT.)

In recognition of a critical national need for permanent radioactive-waste storage, Yucca Mountain in southwestern Nevada has been investigated by Federal agencies since the 1970's, as a potential geologic disposal site. In 1987, Congress selected Yucca Mountain for an expanded and more detailed site characterization effort. As an integral part of this program, the U.S. Geological Survey began a series of detailed geologic, geophysical, and related investigations designed to characterize the tectonic setting, fault behavior, and seismicity of the Yucca Mountain area. This document presents the results of 13 studies of the tectonic environment of Yucca Mountain, in support of a broad goal to assess the effects of future seismic and fault activity in the area on design, long-term performance, and safe operation of the potential surface and subsurface repository facilities.

A. NEVADA. Introduction to geologic and geophysical characterization studies of Yucca Mountain, Nevada, a potential high-level radioactive-waste repository, by J. W. Whitney and W. R. Keefer, U.S. Geological Survey. 2 p.

B. NEVADA. Conditions of metamorphism in lower-plate rocks at Bare Mountain, Nevada; implications for extensional faulting, by T. D. Hoisch, Northern Arizona University. 23 p.

C. NEVADA. Constraints on the structure of Crater Flat, Southwest Nevada, derived from gravity and magnetic data, by V. E. Langenheim, U.S. Geological Survey. 11 p.

D. Preliminary results from the NPE-Ryan reversed refraction profile, by K. D. Smith, Li Li, J. N. Brune, Rasool Anooshehpour, M. K. Savage, University of Nevada at Reno. 9 p.

E. NEVADA. Perspectives on Basin and Range structure and basaltic volcanism; Bare Mountain-Crater Flat area, Nye County, Nevada, by G. A. Thompson, Stanford University. 7 p.

F. NEVADA. A 3.7-million-year offset rate on the Windy Wash Fault at the south end of Yucca Mountain, Nevada, by J. W. Whitney and D. L. Berger, U.S. Geological Survey. 9 p.

G. NEVADA. Cosmogenic dating and analysis of scarps along the Solitario Canyon and Windy Wash faults, Yucca Mountain, Nevada, by C. D. Harrington, Los Alamos National Laboratory, J. W. Whitney, U.S. Geological Survey; A. J. T. Jull, and William Phillips, University of Arizona. 9 p.

H. CALIFORNIA. Late Quaternary tectonic activity on the Death Valley and Furnace Creek faults, Death Valley, California, by R. E. Klinger and L. A. Piety, U.S. Bureau of Reclamation. 16 p.

I. NEVADA. Tectonic significance of the Rock Valley fault zone, Nevada Test Site, by D. W. O'Leary, U.S. Geological Survey. 13 p.

J. Seismicity in the southern Great Basin, 1868–1992, by D. H. von Seggern and J. N. Brune, University of Nevada at Reno. 15 p.

K. NEVADA. The 1992 Little Skull Mountain earthquake sequence, southern Nevada Test Site, by K. D. Smith, J. N. Brune, Diane dePolo, M. K. Savage, Rasool Anooshehpour, University of Nevada at Reno; and A. F. Sheehan, University of Colorado. 16 p.

L. NEVADA. A sequence of very shallow earthquakes in the Rock Valley fault zone, southern Nevada Test Site, by K. D. Smith, G. Shields, and J. N. Brune, University of Nevada at Reno. 11 p.

M. NEVADA. Precarious rocks and seismic shaking at Yucca Mountain, Nevada, by J. N. Brune and J. W. Whitney, University of Nevada at Reno. 19 p.

N. Tectonic modeling of Yucca Mountain, by Bob Janssen, Geoffrey King, Institut de Physique du Globe. 18 p.

DDS-0062-A. Global GIS database; digital atlas of Central and South America, by P. Hearn, Jr., T. Hare, P. Schruben, D. Sherrill, C. LaMar and P. Tsushima. 2000. One CD-ROM. \$32.

System requirements: ArcView Data Publisher 3.1 works in Windows NT 4, Windows 2000, or Windows 95/98/ME and requires an industry-standard personal computer with a pentium microprocessor, at least 24 MB of RAM (64 MB recommended) and 34 MB hard disk space (600 MB recommended). A standard web browser is also required.

This CD-ROM contains a digital atlas of the countries of Central and South America. This atlas is part of a global database compiled from USGS and other data sources at the nominal scale of 1:1 million and is intended to be used as a regional-scale reference and analytical tool by government officials, researchers, the private sector, and the general public. The atlas includes free GIS software or may also be used with ESRI's ArcView software. Customized



ArcView tools, specifically designed to make the atlas easier to use, are also included. The atlas contains the following datasets: country political boundaries, digital shaded relief map, elevation, slope, hydrology, locations of cities and towns, airfields, roads, railroads, utility lines, population density, geology, ecological regions, historical seismicity, volcanoes, ore deposits, oil and gas fields, climate data, landcover, vegetation index, and lights at night.

DDS-0065. MONTANA. Montana geoenvironmental explorer, by G. K. Lee, A. E. McCafferty, B. S. Van Gosen, Viki Bankey, J. E. Elliott, David Frishman, D. H. Knepper, Jr., D. M. Kulik, S. P. Marsh, J. D. Phillips, J. A. Pitkin, S. M. Smith, D. B. Stoeser, R. G. Tysdal, C. A. DiFrancesco and D. I. Bleiwas. 2001. One CD-ROM. \$32.

This report is the result of a multidisciplinary effort to assess relative potential for acidic, metal-rich drainage in the State of Montana; evaluate alternative GIS-based modeling strategies; and provide the statewide digital spatial data produced and compiled for the project. The CD is usable on various computer systems (Windows 95, 98, NT, and 2000; MacOS 7.1 or later; many versions of UNIX and Linux; and OS/2). This report and maps are in PDF format, and the data have been provided in various GIS formats. Software for viewing the report and data is included.

DDS-0068. Coastal vulnerability to sea-level rise; a preliminary database for the U.S. Atlantic, Pacific, and Gulf of Mexico coasts, by Erika Hammar-Klose and E. R. Thieler. 2001. One CD-ROM. \$32.

This CD-ROM (Compact Disc-Read Only Memory) has been produced in accordance with the ISO 9660 CD-ROM Standard and is therefore capable of being read on any computing platform that has appropriate CD-ROM drive software installed. Access to the data and information contained on this CD-ROM was developed by the World Wide Web (WWW) project. Development of the CD-ROM documentation and user interface in HTML allows a user to access the information by using a variety of WWW information browsers (e.g. NCSA Mosaic, Netscape) to facilitate browsing and locating information and data.

The prediction of coastal evolution is not straightforward. There is no standard methodology, and even the kind of data required to make such predictions are the subject of much scientific debate. Since a viable, quantitative predictive model for coastal evolution is not available. The relative susceptibility of the Nation's coastline to sea-level rise is quantified here at a regional to national scale using basic information on coastal geomorphology, rate of sea-level rise, past shoreline evolution and other factors. This approach combines the coastal system's susceptibility to change with its natural ability to adapt to changing environmental and conditions, and yields a relative measure of the system's natural vulnerability to the effects of sea-level rise. This information has immediate application to many of the decisions our society will be making regarding coastal development in both the short- and long-term.

PROFESSIONAL PAPERS

Professional Papers are mainly comprehensive scientific reports of wide and lasting interest and importance to professional scientists and engineers. Included are reports on the results of resource studies, and of topographic, hydrologic, and geologic investigations. They also include collections of related papers addressing different aspects of a single scientific topic.

P 1601-A,B. IDAHO, MONTANA. Revision of middle Proterozoic Yellowjacket Formation, central Idaho, and revision of Cretaceous Slim Sam Formation, Elkhorn Mountains area, Montana, by R. G. Tysdal. 2000. (Chapters A and B are issued as a single volume and are not available separately.) Available on the web at <http://greenwood.cr.usgs.gov/pub/ppapers/p1601/>

The Yellowjacket Formation is restricted to the strata originally assigned to it by Ross (1934). The Yellowjacket, the conformably overlying Hoodoo Quartzite, and succeeding unnamed argillaceous quartzite unit form a genetically related sequence that lies in a structural block delimited on the northeast by the Iron Lake fault. Directly northeast of the fault, strata currently assigned by others to the lower subunit of the Yellowjacket are correlated with the Apple Creek Formation in the Lemhi Range. Mapping in the western part of the Lemhi Range shows that the Apple Creek Formation lies depositionally above the Big Creek Formation and that no rocks of the Yellowjacket-Hoodoo unnamed unit stratigraphic sequence are present. In contrast, in the area of the Yellowjacket mapped by Ross (1934) and the area directly northeast of the Iron Lake Fault, the Big Creek Formation is absent, even though it is 2,700 m thick in the Lemhi Range. These data indicate that the Iron Lake Fault juxtaposed the Yellowjacket-Hoodoo-unnamed unit sequence against non-Yellowjacket strata to the northeast.

The Upper Cretaceous Slim Sam Formation of the Elkhorn Mountains area is revised. Strata of the lower part are correlated with the regionally recognized marine Telegraph Creek Formation and the overlying marine to marginal marine Eagle Sandstone. Only lower strata of the Eagle are present in the study area and they are preserved discontinuously. The nonmarine volcanic and volcanoclastic rocks of the upper part of the Slim Sam as originally defined retain the name Slim Sam Formation. These rocks, mainly of sedimentary origin, are genetically related to the Elkhorn Mountains Volcanics. The lower contact of the Slim Sam (restricted) is unconformable above the Eagle Sandstone or more commonly above the Telegraph Creek Formation. The upper contact is conformable with the Elkhorn Mountains Volcanics.

A. IDAHO. Revision of middle Proterozoic Yellowjacket Formation, central Idaho, by R. G. Tysdal. A1-A13 p.

B. MONTANA. Revision of Cretaceous Slim Sam Formation, Elkhorn Mountains area, Montana, by R. G. Tysdal. p. B1-B8.

P 1603. GEORGIA. Geology and paleontology of five cores from Screven and Burke counties, eastern Georgia, edited by L. E. Edwards. Prepared in cooperation with the U.S. Department of Energy; Georgia Geologic Survey. 2001. \$31. Available on the web at <http://pubs.usgs.gov/prof/p1603/>

Five deep stratigraphic test holes were drilled from 1991 to 1993 in support of multidisciplinary investigations to determine the stratigraphy of Upper Cretaceous and Tertiary sediments of the coastal plain in east-central Georgia. Cored sediment and geological logs from the Millhaven test hole in Screven County and the Girard and Millers Pond test holes in Burke County are the primary sources of lithologic and paleontologic information from this report. Lithologic and paleontologic information from the Thompson Oak and McBean test holes in Burke County supplements the discussion of stratigraphy and sedimentation in the updip part of the study area near the Millers Pond test hole.

- A. GEORGIA. Stratigraphy and depositional environments of sediments from five cores from Screven and Burke counties, Georgia, by W. F. Falls and D. C. Prowell. p. A1-A20.
- B. GEORGIA. Overview of the biostratigraphy and paleoecology of sediments from five cores from Screven and Burke counties, Georgia, by L. E. Edwards, N. O. Frederiksen, L. M. Bybell, T. G. Gibson, G. S. Gohn, David Bukry, J. M. Self-Trail and R. J. Litwin. p. B1-B19.
- C. GEORGIA. Palynomorph biostratigraphy and paleoecology of Upper Cretaceous sediments from four cores from Screven and Burke counties, Georgia, by N. O. Frederiksen, L. E. Edwards and R. J. Litwin. p. C1-C32.
- D. GEORGIA. Late Campanian (Zone CC 22) coccoliths from the Millhaven Core, Screven County, Georgia, by David Bukry. p. D1-D4.
- E. GEORGIA. Ostracode biostratigraphy of Upper Campanian (Cretaceous) marine sediments from the Millhaven Core, Screven County, Georgia, by G. S. Gohn. p. E1-E11.
- F. GEORGIA. Calcareous nannofossil biostratigraphy of Cenozoic sediments from the Millhaven Core, Screven County, Georgia, by L. M. Bybell. p. F1-F13.
- G. GEORGIA. Dinocyst biostratigraphy of Tertiary sediments from five cores from Screven and Burke counties, Georgia, by L. E. Edwards. p. G1-G25.
- H. GEORGIA. Pollen biostratigraphy of lower Tertiary sediments from five cores from Screven and Burke counties, Georgia, by N. O. Frederiksen. p. H1-H21.
- I. GEORGIA. Foraminifera from Paleogene sediments from the Millhaven and Millers Pond cores, Screven and Burke counties, Georgia, by T. G. Gibson. p. I1-I13.
- P 1610. COLORADO. Mineral resource potential and geology of the Routt National Forest and the Middle Park Ranger District of the Arapaho National Forest, Colorado, edited by Vicki Bankey, S. J. Soulliere, and M. I. Toth, U.S. Geological Survey. 2000. 117 p. Available on the web at <http://greenwood.cr.usgs.gov/pub/ppapers/p1610/>
- The assessment of the mineral resource potential of the Routt National Forest and the Middle Park Ranger District of the Arapaho National Forest, Colorado, was conducted so that the mineral resources of the forest can be considered along with other resources in land use planning. This report discusses the potential for as yet undiscovered mineral and energy resources within the forest. Mineral resource information is given in terms of mineral deposit types and their geologic settings, and mineral deposit types are defined by geologic characteristics of known deposits that may occur within or near the forest. All available information regarding mineral deposits or occurrences and energy resources, as of June 1994, was assembled to assess the mineral and energy potential. Geologic maps were compiled and mineral and energy potential maps were also created for deposit types within the forest.
- Geology, by M. I. Toth and S. J. Soulliere, U.S. Geological Survey. p. 13-17.
- Geochemistry, by S. M. Smith, U.S. Geological Survey. p. 19-26.
- Geophysical studies, by Vicki Bankey, and J. A. Pitkin, U.S. Geological Survey. p. 27-48.
- Mineral resources; locatable minerals, by S. J. Soulliere and M. I. Toth, U.S. Geological Survey. p. 49-71.
- Mineral resources; leasable minerals; coal geology and resources, by L. N. Robinson Roberts and C. L. Molnia, U.S. Geological Survey. p. 73-89.
- Oil, gas, and coal-bed methane resources, by C. J. Wandrey, B. E. Law, C. W. Spencer, and C. E. Barker, U.S. Geological Survey. p. 89-96.
- Geothermal resources, by S. J. Soulliere, U.S. Geological Survey. p. 97.
- Mineral resources; salable minerals, by J. S. Dersch, U.S. Forest Service. p. 99-100.
- Probabilistic assessment of undiscovered metallic endowment using grade-tonnage models, by T. M. Cookro, U.S. Geological Survey. p. 101-104.
- Summary of environmental studies, by M. I. Toth, Sandra J. Soulliere and S. M. Smith, U.S. Geological Survey. p. 105.
- P 1617. NEVADA. Landslide-induced flooding at Ophir Creek, Washoe County, western Nevada, May 30, 1983, by P. A. Glancy and J. W. Bell. Prepared in cooperation with the Nevada Bureau of Mines and Geology. 2000. 94 p. \$15.
- Rapid spilling of 22 acre-feet of water down the steep, 3-mile channel of Ophir Creek killed one, injured four, and destroyed or damaged five houses. Flow evolved into debris flow enroute, and compounded in volume over 30 times.
- P 1625-B. Geologic assessment of coal in the Colorado Plateau; Arizona, Colorado, New Mexico, and Utah, edited by M. A. Kirschbaum, L. N. R. Roberts, and L. R. H. Biewick, U.S. Geological Survey. 2000. Two CD-ROMs. \$42.
- Supported systems and minimum requirements to use the data with the software provided are: (1) Personal computer, 200-MHz Pentium processor or later. Windows 95 or higher, or Windows NT 4.0 or higher operating system, at least 16 MB application RAM, VGA color graphics system; (2) Macintosh computer with 68020 (Macintosh II series) or greater processor. MacOS 7.0 or later, 24 MB RAM, and 20 MB hard-disk space; (3) Sun SPARCstation, SunOS 4.1.3 or later, or Solaris 2.3 or later, Open Windows (3.0 or later), Motif (1.2.3 or later), OpenLook version 3.0 or Common Desktop Environment (CDE) 1.0, 12 MB of available hard-disk space, 32 MB RAM; (4) Silicon Graphics workstation, IRIX 5.3 or later, 12 MB of available hard-disk space 32 MB of RAM; (5) IBM RS/6000 workstation, AIX(R) 4.1 or later operation system CDE 1.0 or Motif window manager, 12 MB of available hard-disk space, 32 MB RAM; and (6) Intel-x86-based personal computer (Pentium or Pentium Pro recommended), 200-MHz Pentium processor or greater (400 MHz recommended). Windows 95 or higher, or Windows NT 4.0 or higher Operating System, at least 24 MB application RAM (32 MB recommended), 17 MB virtual memory, 16-bit color depth of 65,536 colors, and 1,024 × 768 pixels.
- This CD-ROM set contains a geologic assessment of coal deposits of the Colorado Plateau region and new resource estimates for selected assessment units within the Colorado Plateau. Orig-

nal resource estimates (in-place resources before production) for the 12 priority assessment units of the Colorado Plateau exceed one half trillion short tons of coal in beds greater than 1 ft thick and under less than 6,000 ft of overburden. The coal is high quality and low sulfur, and a portion of these resources will provide future energy production for the Nation. Disc 1, in Portable Document Format, contains results of the assessment in summary and (or) technical reports for 12 priority coal assessment units in the Colorado Plateau and also contains an ArcView Data Publisher project, which is an interactive geographic information system of digital data collected during the assessment. Disc 2 contains stratigraphic data bases for seven of the priority coal assessment areas within the Colorado Plateau region and an ArcView project identical to the ArcView Data Publisher project on disc 1 except that it retains some of the functionality that is disabled in the ArcView Data Publisher program.

A. Introduction; geologic assessment of coal in the Colorado Plateau, by M. A. Kirschbaum, U.S. Geological Survey. p. A1-A34.

B. A summary of the coal deposits in the Colorado Plateau; Arizona, Colorado, New Mexico, and Utah, by M. A. Kirschbaum and L. R. H. Biewick, U.S. Geological Survey. p. B1-B99.

C. Methodology for calculating coal resources for the Colorado Plateau, U. S. Geological Survey National Coal Assessment, by L. N. R. Roberts, M. E. Brownfield, R. D. Hettinger, and E. A. Johnson, U.S. Geological Survey. p. C1-C31.

D. The Colorado Plateau geographic information system (GIS); an introduction to the ArcView Project and data library, by L. R. H. Biewick and T. J. Mercier, U.S. Geological Survey. p. D1-D44.

E. Federally owned coal and federal lands in the Colorado Plateau region, by C. L. Molnia, L. N. R. Roberts, L. R. H. Biewick, and L. M. Osmonson, U.S. Geological Survey. p. E1-E23.

F. COLORADO, NEW MEXICO, UTAH. Coal availability, recoverability, and economic evaluations of coal resources in the Colorado Plateau; Colorado, New Mexico, Utah, by T. J. Rohrbacher, C. L. Molnia, L. M. Osmonson, M. D. Carter, U.S. Geological Survey; Wynn Eakins, Colorado Geological Survey; G. K. Hoffman, New Mexico Bureau of Mines and Mineral Resources; D. E. Tabet, Utah Geological Survey; J. E. Schultz, Colorado Geological Survey; D. C. Scott, D. D. Teeters, DST and Associates; G. E. Jones, New Mexico Bureau of Mines and Mineral Resources; J. C. Quick, B. P. Hucka, and J. A. Hanson, Utah Geological Survey. p. F1-F64.

G. Quality characterization of Cretaceous coal from the Colorado Plateau Coal Assessment area, by R. H. Affolter, U.S. Geological Survey. p. G1-G136.

H. ARIZONA. Summary of Cretaceous stratigraphy and coal distribution, Black Mesa Basin, Arizona, by J. D. Nations, R. L. Swift, and Henry W. Haven, Jr., Northern Arizona University. p. H1-H29.

I. COLORADO. A summary of the stratigraphy, coal resources, and coal-bed methane potential of Northwest Colorado, by M. E. Brownfield, R. D. Hettinger, and E. A. Johnson, U.S. Geological Survey. p. I1-I21.

J. UTAH. A summary of coal distribution and geology in the Kaiparowits Plateau, Utah, by R. D. Hettinger, U.S. Geological Survey. p. J1-J17.

K. UTAH. Summary of geology and coal resources of the Blackhawk Formation in the southern Wasatch Plateau, central Utah, by R. F. Dubiel, U.S. Geological Survey. p. K1-K26.

L. UTAH. Coal-bed methane gas-in-place resource estimates using sorption isotherms and burial history reconstruction; an example from Ferron Sandstone Member of the Mancos Shale, Utah, by T. A. Dallegge and C. E. Barker, U.S. Geological Survey. p. L1-L26.

M. COLORADO. Assessment of the distribution and resources of coal in the Fairfield Group of the Williams Fork Formation, Danforth Hills coal field, Northwest Colorado, by M. E. Brownfield, L. N. R. Roberts, E. A. Johnson, and T. J. Mercier, U.S. Geological Survey. p. M1-M55.

N. COLORADO. Assessment of the distribution and resources of coal in the Deserado coal area, lower White River coal field, Northwest Colorado, by M. E. Brownfield, L. N. R. Roberts, E. A. Johnson, and T. J. Mercier, U.S. Geological Survey. p. N1-N25.

O. COLORADO. Investigations of the distribution and resources of coal in the southern part of the Piceance Basin, Colorado, by R. D. Hettinger, L. N. R. Roberts, and T. A. Gognat, U.S. Geological Survey. p. O1-O101.

P. COLORADO. Geology and resource assessment of the middle and upper coal groups in the Yampa coal field, northwestern Colorado, by E. A. Johnson, L. N. R. Roberts, M. E. Brownfield, and T. J. Mercier, U.S. Geological Survey. p. P1-P65.

Q. NEW MEXICO, COLORADO. Geology and coal resources of the Upper Cretaceous Fruitland Formation, San Juan Basin, New Mexico and Colorado, by J. E. Fassett, U.S. Geological Survey. p. Q1-Q132.

R. UTAH. Coal resources of the Henry Mountains coal field, Utah, by D. E. Tabet, Utah Geological Survey. p. R1-R25.

R. UTAH. Geology and coal resources of the Blackhawk Formation in the southern Wasatch Plateau, central Utah, by R. F. Dubiel, M. A. Kirschbaum, L. N. R. Roberts, T. J. Mercier, and A. Heinrich, U.S. Geological Survey. p. S1-S57.

T. UTAH. Geologic overview and resource assessment of coal in the Kaiparowits Plateau, southern Utah, by R. D. Hettinger, L. N. R. Roberts, L. R. H. Biewick, and M. A. Kirschbaum, U.S. Geological Survey. p. T1-T69.

P 1650-C. Atlas of relations between climatic parameters and distributions of important trees and shrubs in North America; additional conifers, hardwoods, and monocots, by R. S. Thompson, U.S. Geological Survey; K. H. Anderson, University of Colorado; P. J. Bartlein, University of Oregon; and S. A. Smith, Townsend Management Group. 2000. 386 p. \$47. Available on the web at <http://greenwood.cr.usgs.gov/pub/ppapers/p1650-c/>

This volume explores the continental-scale relations between climate and the geographic ranges of woody plant species in North America. A 25-km equal-area grid of modern climatic and bioclimatic parameters for North America was constructed from instrumental weather records. The geographic distributions of selected tree and shrub species were digitized, and the presence or

absence of each species was determined for each cell on the 25-km grid, thus providing a basis for comparing climatic data and species' distribution.

BULLETINS

Bulletins contain significant data and interpretations that are of lasting scientific interest but are generally more limited in scope or geographic coverage than Professional Papers. They include the results of resource studies and of geologic and topographic investigations, as well as collections of short papers related to a specific topic.

B 2064-GG. IDAHO. Geochemical results of a hydrothermally altered area at Baker Creek, Blaine County, Idaho, by J. A. Erdman, F. J. Moye, P. K. Theobald, A. E. McCafferty and R. K. Larsen. Prepared in cooperation with the Idaho Geological Survey; Idaho State University; University of Idaho. 2001. 21 p. Available on the web at <http://greenwood.cr.usgs.gov/pub/bulletins/b2064-gg/>

This report summarizes geochemical data from a reconnaissance geochemical survey of a hydrothermally altered area located just east of Baker Creek in Blaine County, Idaho, relate these data to the geology and structure, and present result from a 1,530-ft-deep (466 m) drill hole near one of two mineralized areas that were identified. The hole was drilled in 1982 by the Duval Corporation in an attempt to locate a possible porphyry molybdenum deposit.

B 2064-U. IDAHO. Plutonic and hypabyssal rocks of the Hailey 1° × 2° quadrangle, Idaho, by T. H. Kiilsgaard, R. S. Lewis and E. H. Bennett. Prepared in cooperation with the Idaho Geological Survey; Idaho State University; University of Idaho. 2001. 18 p. Available on the web at <http://greenwood.cr.usgs.gov/pub/bulletins/b2064-u/>

Much of the area of the Hailey 1° × 2° quadrangle, Idaho, is underlain by Cretaceous plutonic rocks of the Atlanta Lobe of the Idaho batholith. The oldest phases of the Atlanta Lobe consist of hornblende-bearing tonalite and granodiorite and minor pyroxene diorite. Younger phases include voluminous amounts of biotite granodiorite and lesser amounts of two-mica granite and leucocratic granite. Intrusive into these rocks are Eocene stocks and batholiths that range in composition from gabbro to younger granite. Cutting all of the plutonic rocks are swarms of Tertiary hypabyssal dikes that range in composition from rhyolite to andesite.

B 2064-V. IDAHO. Alteration and mineralization in the eastern part of the Soldier Mountains, Camas County, Idaho, by R. S. Lewis. Prepared in cooperation with the Idaho Geological Survey; Idaho State University; University of Idaho. 2001. 13 p. Available on the web at <http://greenwood.cr.usgs.gov/pub/bulletins/b2064-v/>

This report describes hydrothermal alteration and related mineralization in the eastern part of the Soldier Mountains of Camas County, Idaho. The study area is underlain principally by a complex series of plutonic rocks of Cretaceous and Eocene age overlain in places by younger volcanic rocks.

B 2064-X. IDAHO. Vein deposits hosted by plutonic rocks in the Croesus Stock and Hailey gold belt mineralized areas, Blaine County, Idaho, by R. G. Worl and R. S. Lewis. Prepared in cooperation with the Idaho Geological Survey; Idaho State University;

University of Idaho. 2001. 19 p. Available on the web at <http://greenwood.cr.usgs.gov/pub/bulletins/b2064-x/>

This report describes the mineral deposits in the Croesus and Hailey gold belt mineralized areas in Blaine County, south-central Idaho. The deposits discussed here are precious-and base-metal quartz veins that are part of a family of vein deposits spatially and temporally associated with the Idaho batholith. Historic production from these veins has been mainly gold and silver.

B 2064-Y. IDAHO. Geology and mineral deposits of the Minnie Moore and Bullion mineralized areas, Blaine County, Idaho, by P. K. Link and R. G. Worl. Prepared in cooperation with the Idaho Geological Survey; Idaho State University; University of Idaho. 2001. 22 p. Available on the web at <http://greenwood.cr.usgs.gov/pub/bulletins/b2064-y/>

This report discusses the Minnie Moore and Bullion mineralized areas in light of modern understanding of stratigraphic relationships. Previously unpublished geologic mapping conducted at 1:24,000 scale for both areas is presented and the important characteristics of the mineral deposits are reviewed, mainly by updating information contained in previous reports.

B 2163. Lateral ramps in the folded Appalachians and in overthrust belts worldwide; a fundamental element of thrust-belt architecture, by H. A. Pohn. 2000. 63 p. \$3.75. Available on the web at <http://pubs.usgs.gov/bulletin/b2163>

Lateral ramps are zones where décollements change stratigraphic level along strike. Although these ramps occur in the subsurface, many thousands of feet deep, their presence can be detected by changes in fold wavelength at the surface. Lateral ramps are shown to occur in fold and thrust belts world wide.

B 2181. Processing strategy for water-gun seismic data from the Gulf of Mexico, by M. W. Lee, P. E. Hart and W. F. Agena. 2000. 12 p. Available on the web at <http://greenwood.cr.usgs.gov/pub/bulletins/b2181/>

This paper describes the details of the processing strategy used to attach a problem generally inherent in seismic data acquired with a water gun. Therefore, the main focus of this investigation is on wavelet extraction and deconvolution.

B 2182. Gas hydrate estimation error associated with uncertainties of measurements and parameters, by M. W. Lee and T. S. Collett. 2001. 8 p. Available on the web at <http://greenwood.cr.usgs.gov/pub/bulletins/b2182/>

Downhole log measurements such as acoustic or electrical resistivity logs are often used to estimate in situ gas hydrate concentrations in sediment pore space. Estimation errors owing to uncertainties associated with downhole measurements and the parameters for estimation equations (weight in the acoustic method and Archie's parameters in the resistivity method) are analyzed in order to assess the accuracy of estimation of gas hydrate concentration. Accurate downhole measurements are essential for accurate estimation of the gas hydrate concentrations in sediments, particularly at low gas hydrate concentrations and when using acoustic data. Estimation errors owing to measurement errors, except the slowness error, decrease as the gas hydrate concentration increases and as porosity increases. Estimation errors owing to uncertainty in the input parameters are small in the acoustic method and may be significant in the resistivity method at low gas hydrate concentrations.

B 2202-C. Total petroleum systems of the Trias/Ghadames Province, Algeria, Tunisia, and Libya; the Tanezzuft-Oued Mya, Tanezzuft-Melrhir, and Tanezzuft-Ghadames, by T. R. Klett. 2000. 118 p. Available on the web at <http://greenwood.cr.usgs.gov/pub/bulletins/b2202-c/>

Undiscovered conventional oil and gas resources were assessed in total petroleum systems of the Trias/Ghadames Province (2054) as part of U.S. Geological Survey World Petroleum Assessment 2000. This study documents the geology, undiscovered oil and gas volumes, exploration activity, and discovery history of the Trias/Ghadames Province, a geologic province delineated by the USGS, located in eastern Algeria, southern Tunisia, and westernmost Libya. These "composite" total petroleum systems were identified; each comprises a single assessment unit. The main source rocks are the Silurian Tanezzuft Formation (or lateral equivalents) and Middle to Upper Devonian mudstone.

WATER-SUPPLY PAPERS

Water-Supply Papers are comprehensive reports that present significant interpretive results of hydrologic investigations of wide interest to professional geologists, hydrologists, and engineers. The series covers investigations in all phases of hydrology, including hydrogeology, availability of water, quality of water, and use of water.

W 2496. WASHINGTON. Sediment-quality assessment of Franklin D. Roosevelt Lake and the upstream reach of the Columbia River, Washington, 1992, by G. C. Bortleson, S. E. Cox, M. D. Munn, U.S. Geological Survey; R. J. Schumaker, Washington State University; and E. K. Block, U.S. Fish and Wildlife Service. Prepared in cooperation with the U.S. Environmental Protection Agency. 2001. 130 p., 1 plate in pocket. \$13.

Elevated concentrations of trace elements were found in bed sediment of Lake Roosevelt and the Columbia River, its principal source of inflow. Trace-element concentrations in whole water samples did not exceed criteria for freshwater organisms. Bed sediments of Lake Roosevelt were analyzed for organic compounds associated with wood-pulp waste. Dioxins and furans were found in suspended sediment and water of the Columbia River. Abundance and diversity of benthic invertebrate communities were analyzed.

CIRCULARS

Circulars present technical or nontechnical information of wide popular interest in a format designed for distribution at no cost to the public. They are published to disseminate administrative information or important scientific information of an ephemeral nature.

C 1162. COLORADO, NEW MEXICO, TEXAS. Water quality in the Rio Grande Valley, Colorado, New Mexico, and Texas, 1992-95, by G. W. Levings, D. F. Healy, S. F. Richey and L. F. Carter. 1998. 39 p. Available on the web at <http://pubs.water.usgs.gov/circ1162>

C 1163. NEBRASKA. Water quality in the central Nebraska basins, Nebraska, 1992-95, by S. A. Frenzel, R. B. Swanson, T. L. Huntzinger, J. K. Stamer, P. J. Emmons and R. B. Zelt. 1998. 33 p. Available on the web at <http://pubs.water.usgs.gov/circ1163>

C 1165. NEW YORK. Water quality in the Hudson River basin, New York and adjacent states, 1992-95, by G. R. Wall, Karen Riva-Murray and P. J. Phillips. 1998. 32 p. Available on the web at <http://pubs.water.usgs.gov/circ1165>

C 1166. Water quality in the Potomac River basin, Maryland, Pennsylvania, Virginia, West Virginia, and the District of Columbia, 1992-96, by S. W. Ator, J. D. Blomquist, J. W. Brakebill, J. M. Denis, M. J. Ferrari, C. V. Miller and Humbert Zappia. 1998. 38 p. Available on the web at <http://pubs.water.usgs.gov/circ1166>

C 1167. COLORADO, NEBRASKA, WYOMING. Water quality in the South Platte River basin, Colorado, Nebraska, and Wyoming, 1992-95, by K. F. Dennehy, D. W. Litke, C. M. Tate, S. L. Qi, P. B. McMahon, B. W. Bruce, R. A. Kimbrough and J. S. Heiny. 1998. 38 p. Available on the web at <http://pubs.water.usgs.gov/circ1167>

C 1197. The materials flow of mercury in the economies of the United States and the world, by J. L. Sznopce and T. G. Goonan. 2000. 28 p. Available on the web at <http://greenwood.cr.usgs.gov/pub/circulars/c1197/>

Although natural sources of mercury exist in the environment, measured data and modeling results indicate the amount of mercury released into the biosphere has increased since the beginning of the industrial age. Because of mercury's properties and its potential impacts on human health, mercury was selected for an initial materials flow study, focusing on the United States in 1990. In addition to analysis and statistics of domestic flows, the report includes an international section, because of international mercury mining, industry, and trade. Environmental concerns have resulted in numerous regulations dramatically decreasing both the use and production of mercury since the late 1980's; this trend is likely to continue as the world eliminates mercury stockpiles that have supported prior industrial processes and products.

C 1201. NEW YORK, NEW JERSEY. Water quality in the Long Island-New Jersey coastal drainages, New York and New Jersey, 1996-98, by M. A. Ayers, J. G. Kennen and P. E. Stackelberg. 2000. 40 p.

This report summarizes major findings about water quality in New Jersey and on Long Island, N.Y., that emerged from an assessment conducted between 1996 and 1998 by the National Water-Quality Assessment (NAWQA) Program. Water quality is discussed in terms of local and regional issues and compared to conditions found in all 36 NAWQA study areas assessed to date. Findings also are explained in the context of selected national benchmarks, such as those for drinking-water quality and the protection of aquatic organisms.

C 1203. Water quality in the Lake Erie-Lake Saint Clair Drainages; Michigan, Ohio, Indiana, New York, and Pennsylvania, 1996-98, by D. N. Myers, M. A. Thomas, J. W. Frey, S. J. Rheame and D. T. Button. 2000. 35 p.

This report summarizes major findings about water quality in the Lake Erie-Lake Saint Clair Drainages that emerged from an assessment conducted between 1996 and 1998 by the U.S. Geological Survey (USGS) National Water-Quality Assessment (NAWQA) Program. Water quality is discussed in terms of local and regional issues and compared to conditions found in all 36 NAWQA study areas assessed to date. Findings are also explained

in the context of selected national benchmarks, such as those for drinking-water quality and the protection of aquatic organisms.

- C 1206. NORTH CAROLINA, SOUTH CAROLINA. Water quality in the Santee River basin and coastal drainages, North and South Carolina, 1995–98, by W. B. Hughes, T. A. Abrahamsen, T. L. Maluk, E. J. Reuber and L. J. Wilhelm. 2000. 32 p.

Surface water sampled in the Santee River basin and coastal drainages generally meets existing Federal and State guidelines for drinking-water quality and protection of aquatic life. However, urban and agricultural land uses have affected water quality, as indicated by elevated concentrations of bacteria, pesticides, and nutrients in basins dominated by these land uses.

- C 1208. Water quality in the Mississippi Embayment; Mississippi, Louisiana, Arkansas, Missouri, Tennessee, and Kentucky, by B. A. Kleiss, R. H. Coupe, G. J. Gonthier and B. G. Justus. 2000. 36 p.

The report summarizes the findings about water quality in the Mississippi Embayment that emerged from assessment conducted between 1995 and 1998 by the NAWQA Program. Stream-water quality in the approximately 49,800-square-mile area in these six states is discussed in terms of local issues and compared to conditions found in other NAWQA study units assessed to date.

- C 1209. ILLINOIS. Water quality in lower Illinois River basin, Illinois, 1995–98, by G. E. Groschen, M. A. Harris, R. B. King, P. J. Terrio and K. L. Warner. 2001. 36 p.

Major influences and findings for water quality and biology in central Illinois, including the Illinois River from Ottawa, Illinois to Valley City, Illinois, are described and illustrated. Samples were collected to determine nitrate, phosphorus, pesticides, volatile organic carbon compounds, and radon-222 in streams and ground water. Agricultural and other land-use practices are discussed in relation to their effects on water quality and aquatic life and habitat. Implications of arsenic in ground water are examined. The interactions between nutrients and stream algal populations are discussed. Results are compared with other studies across the country.

- C 1212. TEXAS. Water quality in south-central Texas, Texas 1996–98, by P. W. Bush, A. F. Ardis, Lynne Fahlquist, P. B. Ging, C. E. Hornig and Jennifer Lanning-Rush. 2000. 32 p.

The report summarizes the findings about water quality in south-central Texas that emerged from an assessment conducted between 1996 and 1998 by the NAWQA Program. Stream-water quality in the upper Nueces, San Antonio, and Guadalupe River basins and ground-water quality in the Edwards and Trinity aquifers is discussed in terms of local issues and compared to conditions found in other NAWQA study units assessed to date.

- C 1214. COLORADO. Water quality in the upper Colorado River basin, Colorado, 1996–98, by N. E. Spahr, L. E. Apodaca, J. R. Deacon, J. B. Bails, N. J. Bauch, C. M. Smith and N. E. Driver. 2000. 33 p.

This report summarizes major findings about water quality in the upper Colorado River basin that emerged from an assessment conducted between 1996 and 1998 by the U.S. Geological Survey (USGS) National Water Quality Assessment (NAWQA) Program. Water quality is discussed in terms of local and regional issues and compared to conditions found in all 36 NAWQA study areas assessed to date. Findings are also explained in the context of se-

lected national benchmarks, such as those for drinking water quality and the protection of aquatic organisms.

- C 1215. CALIFORNIA. Water quality in the Sacramento River basin, California, 1994–98, by J. L. Domagalski, D. L. Knifong, P. D. Dileanis, L. R. Brown; U.S. Geological Survey; J. T. May, California State University Foundation; V. Connor, Central Valley Region Water Quality Control Board, and C. N. Alpers, U.S. Geological Survey. 2000. 36 p.

This report summarizes major findings about water quality in the Sacramento River basin that emerged from an assessment conducted between 1994 and 1998 by the U.S. Geological Survey (USGS) National Water-Quality Assessment (NAWQA) Program. Water quality is discussed in terms of local and regional issues and compared to conditions found in all 36 NAWQA study areas assessed to date. Findings are also explained in the context of selected national benchmarks, such as those for drinking-water quality and the protection of aquatic organisms.

- C 1216. WASHINGTON. Water quality in the Puget Sound basin, Washington and British Columbia, 1996–98, by J. C. Ebbert, S. S. Embrey, R. W. Black, A. J. Tesoriero and A. L. Haggland. 2000. 31 p.

Puget Sound basin streams during 1995–98 met most guidelines and criteria. Seventy-four manmade compounds were detected and different mixtures linked to land use. Urban expansion into forested areas is changing stream habitats—urban and agricultural streams are warmer and support less diverse insect populations than streams in forested areas. Elevated nitrate concentrations and the presence of manmade organic compounds indicated shallow ground water in urban and agricultural settings is vulnerable to contamination.

MISCELLANEOUS AND SPECIAL BOOKS

Geographic Names Information System (GNIS)

GNIS, developed by the Geographic Names Office, Mapping Applications Center, National Mapping Division, is the basis for the Digital Gazetteer of the United States (CD-ROM) and includes all names in the data base as of July 1999, as well as the necessary software for searching, analyzing, and exporting the data. The software must be installed onto an IBM-compatible hard disk before the data can be used. The CD-ROM, which can be purchased for \$57 plus \$5.00 shipping, contains the National Geographic Names Data Base (NGNDB), Antarctica Geographic Names Data Base (AGNDB), Topographic Map Names Data Base (TMNDB), and Reference Data Base (RDB). Each record in the NGNDB, AGNDB, and TMNDB can contain a variety of location and description fields. All can be displayed, and most can be searched. Not all fields, however, contain data. The RDB contains one field—bibliography. The CD-ROM is no longer accompanied by a users manual. The installation procedures, readme file, and trouble shooting guide are provided in WordPerfect, HTML, and PDF formats. All necessary information regarding startup procedures are listed in the "Getting_Started" directory on the CD.

The GNIS CD-ROM may be ordered from Information Services, U.S. Geological Survey, DFC, Building 810, MS 306, Denver, CO 80225, or by telephoning 1-888-ASK-USGS. Prepayment is required. Please make check or money order payable to U.S. Department of the Interior—USGS. VISA, MasterCard, American Express, and Discover Card are accepted. Prices are subject to change.

Information and Technical Specifications may be requested from U.S. Geological Survey, Manager GNIS, 523 National Center, Reston, VA 20192. 703-648-4544.



FACT SHEETS

Fact Sheets are used to disseminate timely information on scientific and technical programs of the U.S. Geological Survey and are available, at no cost, from USGS Information Services, Box 25286, Denver, CO 80225.

FS 0002-00. Sea level and climate, by R. Z. Poore, R. S. Williams, Jr. and Christopher Tracey. 2000. 2 p. Available on the web at <http://pubs.usgs.gov/factsheet/fs2-00/>

FS 0024-00. Significant floods in the United States during the 20th century; USGS measures a century of floods, by C. A. Perry. 2000. 4 p.

FS 0042-00. TEXAS. Municipal stormwater monitoring program, Dallas-Fort Worth area, Texas; summary of sampling, February 1997-February 2000, by S. J. Moore, T. H. Raines and Stanley Baldys, III. Prepared in cooperation with the North Central Texas Council of Governments. 2000. 4 p.

FS 0114-00. VERMONT. Monitoring the effectiveness of urban best management practices in improving water quality of Englesby Brook, Burlington, Vermont, by Laura Medalie. Prepared in cooperation with the Vermont Department of Environmental Conservation; City of Burlington, Vermont. 2000. 4 p.

FS 0124-00. What makes a healthy environment for native freshwater mussels? 2000. 6 p.

FS 0125-00. ARIZONA, CALIFORNIA. Identifying wells downstream from Laguna Dam that yield water that will be replaced by water from the Colorado River, Arizona and California, by S. J. Owen-Joyce. Prepared in cooperation with the Bureau of Reclamation. 2000. 4 p.

FS 0135-00. Nitrogen in the Mississippi Basin; estimating sources and predicting flux to the Gulf of Mexico, by D. A. Goolsby and W. A. Battaglin. 2000. 6 p.

FS 0137-00. OKLAHOMA. Rapid recharge of parts of the High Plains Aquifer indicated by a reconnaissance study in Oklahoma, 1999, by W. J. Andrews, U.S. Geological Survey; Nowell Osborn, Oklahoma Water Resources Board; and R. R. Luekey, U.S. Geological Survey. 2000. 4 p.

FS 0139-00. NEW YORK. Salt production in Syracuse, New York ("The Salt City") and the hydrogeology of the Onondaga Creek valley, by W. M. Kappel. Prepared in cooperation with Onondaga Lake Cleanup Corporation; U.S. Environmental Protection Agency-Region 2; New York State Department of Environmental Conservation. 2000. 8 p.

FS 0140-00. HAWAII. Occurrence of organochlorine pesticides in stream bed sediment and fish from selected streams on the island of Oahu, Hawaii, 1998, by A. M. Brasher and S. S. Anthony. 2000. 6 p.

FS 0142-00. Seabed observation and sampling system. 2000. 2 p. Available on the web at <http://pubs.usgs.gov/factsheet/fs142-00/>

FS 0144-00. ¿Cuáles son las amenazas o peligros volcánicos? [What are volcano hazards?], by G. E. Ceballos Magaña, Alicia Cuevas Muñiz and J. C. Gavilanes Ruiz. 2000. 2 p. Translated and modified from Fact Sheet 002-97. Available on the web at <http://geopubs.wr.usgs.gov/fact-sheet/fs144-00/>

FS 0148-00. Mitigating landslide hazards in Seattle; a partnership. 2000. 2 p.

FS 0155-00. The world coal quality inventory (WoCQI), by R. B. Finkelman and V. S. Lovern. 2001. 2 p. Available on the web at <http://pubs.usgs.gov/factsheet/fs155-00/>

FS 0158-00. Forces shaping future U.S. coal production and use. 2000. 2 p. Available on the web at <http://pubs.usgs.gov/factsheet/fs158-00/>

FS 0163-00. A data management life-cycle, by David Ferderer. 2001. 2 p.

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FS 0002-01. Wollastonite; a versatile industrial mineral, by R. L. Virta and B. S. Van Gosen. 2001. 2 p.

FS 0003-01. Center for Integration of Natural Disaster Information. 2001. 2 p. (Supersedes Fact Sheet 166-98.) Available on the web at <http://mac.usgs.gov/mac/isb/pubs/factsheets/fs00301.pdf>

FS 0010-01. Science, society, solutions; an introduction to the USGS. 2001. 2 p. Available on the web at <http://www.usgs.gov/aboutusgs.html>

FS 0020-01. The U.S. Geological Survey National Coal Resources Assessment, by Brenda Pierce. 2001. 2 p. Available on the web at <http://pubs.usgs.gov/factsheet/fs020-01/>



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The Metal Industry Indicators (MII) is a monthly newsletter (free) that analyzes and forecasts the economic health of five metal industries with composite leading and coincident indexes. These industries are primary metals, steel, copper, primary and secondary aluminum, and aluminum mill products. The MII was developed by the former U.S. Bureau of Mines in cooperation with the Center for International Business Cycle Research at Columbia University. In late 1996, the USGS assumed sole responsibility for producing the indexes and publishing the MII. Each month, these indexes are analyzed along with any economywide occurrences that would affect the metal industries. The MII also contains a leading index of metal prices that anticipates changes in the growth rate of a composite nonferrous metals price index for primary aluminum, copper, lead, and zinc. Order single copy from Publication Distribution, Pittsburgh Research Center, P.O. Box 18070, Pittsburgh, PA 15236 (send self-addressed label). Also available by Mines FaxBack (703-648-4999) and on the Internet (<http://minerals.usgs.gov/minerals/pubs/>). *Mailing list additions or changes:* USGS, Publication Services Section, 984 National Center, Reston, VA 20192. For more information contact Gail James 703-648-4915 or Ken Beckman 703-648-4916.

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The Stone, Clay, Glass, and Concrete Products Industry Indexes is a monthly report that analyzes and forecasts the economic health of this broad manufacturing industry using composite leading and coincident indexes. These indexes are similar to the ones in the newsletter, Metal Industry Indicators. This report is available by Mines FaxBack (703-648-4999) and on the Internet (<http://minerals.usgs.gov/minerals/pubs/>). Historical data for the indexes are available back to 1948. For more information contact Gail James 703-648-4915 or Ken Beckman 703-648-4916.

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Published on an annual basis, the Mineral Commodity Summaries is the earliest Government publication to furnish estimates covering nonfuel mineral industry data. Data sheets contain information on the domestic industry structure, Government programs, tariffs, and 5-year salient statistics for over 90 individual minerals and materials. The 2001 edition is available from the Government Printing Office, stock number 024-004-02503-4, \$27.00 domestic; \$33.75 foreign. Data sheets are also available by Mines FaxBack (703-648-4999) and on the Internet (<http://minerals.usgs.gov/minerals/pubs/>).

MINERALS YEARBOOK

The Minerals Yearbook discusses the performance of the worldwide minerals and materials industry during a calendar year, and it provides background information to assist in interpreting that performance. Content of the individual Minerals Yearbook volumes follows:

Volume I, Metals and Minerals, contains chapters about virtually all metallic and industrial mineral commodities important to the U.S. economy. Chapters on survey methods, summary statistics for domestic nonfuel minerals, and

trends in mining and quarrying in the metals and industrial minerals industries in the United States are also included.

Volume II, Area Reports: Domestic, contains a chapter on the minerals industry of each of the 50 States and Puerto Rico and the Administered Islands. This volume also has chapters on survey methods and summary statistics for domestic nonfuel minerals.

Volume III, Area Reports: International, is published as four separate reports. These reports collectively contain the latest available mineral data on more than 190 foreign countries and discuss the importance of minerals to the economies of these nations and the United States. Each report begins with an overview of the region's mineral industries during the year. It continues with individual country chapters that examine the mining, refining, processing, and utilization of minerals in each country of the region and how they relate to U.S. industry. Most chapters include production and industry structure tables, information about Government policies and programs affecting the country's minerals industry, and an outlook section.

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INFORMAL REPORTS

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- OF 00-0037. CALIFORNIA. Abrupt physical and chemical changes during 1992-1999, Anderson Springs, SE Geysers geothermal field, California, by C. J. Janik, Fraser Goff, S. R. Walter, M. L. Sorey, Dale Counce and E. M. Colvard. 2 over-size sheets. Available on the web at <http://geopubs.wr.usgs.gov/open-file/of00-037/>
- OF 00-0039. *xwell_radar*; a program for calculating crosswell radar traces for layered media, by K. J. Ellefsen. Available on the web at <http://greenwood.cr.usgs.gov/pub/open-file-reports/ofr-00-0039/>
- Program "*xwell_radar*" calculates radar traces that simulate crosswell radar data collected in horizontally layered media. The program is for computers with the Unix operating system and is written in the (ANSI) C and the Fortran 77 programming languages.
- OF 00-0050. IDAHO. The Phosphoria Formation at the Hot Springs Mine in Southeast Idaho; a source of selenium and other trace elements to surface water, ground water, vegetation, and biota, by D. Z. Piper, J. P. Skorupa, T. S. Presser, M. A. Hardy, S. J. Hamilton, M. Huebner and R. A. Gulbrandsen. 73 p. (NC, Da, M, S; Idaho Geol. Surv., Morill Hall, Room 332, Univ. of Idaho Campus, Moscow, ID 83843.) Microfiche \$5; paper copy \$18.50.
- OF 00-0076. TEXAS. Borehole geophysical logs at Naval Weapons Industrial Reserve Plant, Dallas, Texas, by C. L. Braun, Roberto Anaya and E. L. Kuniansky. Prepared in cooperation with the Southern Division Naval Facilities Engineering Command. 232 p., 1 over-size sheet. (NC, Da, M, Wb.) \$61.50.
- OF 00-0092. MODFLOW-2000, the U.S. Geological Survey modular ground-water models; user guide to modularization concepts and the ground-water flow process, by A. W. Harbaugh, E. R. Banta, M. C. Hill and M. G. McDonald. 121 p. (NC, Da, M, Wb.) Microfiche \$31.25; paper copy \$5.
- OF 00-0093. TEXAS. Water-level altitudes 2000 and water-level changes 1990-2000 and 1999-2000 in the Chicot and Evangeline aquifers, Fort Bend County and adjacent areas, Texas, by L. S. Coplin and H. X. Santos. Prepared in cooperation with the Fort Bend Subsidence District. 6 over-size sheets. (NC, Da, M, Wb.) \$12.
- OF 00-0094. TEXAS. Water-level altitudes 2000, water-level changes 1977-2000 and 1999-2000 and compaction 1973-99 in the Chicot and Evangeline aquifers, Houston-Galveston region, Texas, by L. S. Coplin and H. X. Santos. Prepared in cooperation with the City of Houston; Harris-Galveston Coastal Subsidence District. 8 over-size sheets. (NC, Da, M, Wb.) \$16.
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- OF 00-0098. Ecological condition and public use of the Cabrillo National Monument intertidal zone 1990-1995, by J. M. Engle and G. E. Davis. 175 p. (NC, Da, M, Wb; USGS, WRD, Placer Hall, Suite 2012, 6000 J St., Sacramento, CA 95819-6129.) Microfiche \$5; paper copy \$45.
- OF 00-0101. Seasonal movement of the Slumgullion Landslide as determined from GPS observations, July 1998-July 1999, by J. A. Coe, J. W. Godt, W. L. Ellis, W. Z. Savage, J. E. Savage, P. S. Powers, D. J. Varnes and P. Tachker. Prepared in cooperation with the National Aeronautics and Space Administration and Brigham Young University. 48 p. (NC, M, Da; Vicki J. Cowart, Colorado Geol. Surv., 1313 Sherman St., Room 715, Denver, CO 80203-2277; Chief, Geotechnical Services Branch, Office of the State Engineer, 1313 Sherman St., Room 818, Denver, CO 80203-2277.) Microfiche \$5; paper copy \$12. Available on the web at <http://greenwood.cr.usgs.gov/pub/open-file-reports/ofr-00-0101>
- OF 00-0102. Preliminary interpretation of seasonal movement of the Slumgullion Landslide as determined from GPS observations, July 1998-July 1999, by J. A. Coe, J. W. Godt, W. L. Ellis, W. Z. Savage, J. E. Savage, P. S. Powers, D. J. Varnes and P. Tachker. Prepared in cooperation with the National Aeronautics and Space Administration and Brigham Young University. 26 p. (NC, M, Da; Vicki J. Cowart, Colorado Geol. Surv. 1313 Sherman St., Room 715, Denver, CO 80203-2277; Chief, Geotechnical Services Branch, Office of the State Engineer, 1313 Sherman St., Room 818, Denver, CO 80203-2277.) Microfiche \$5; paper copy \$6.50. Available on the web at <http://greenwood.cr.usgs.gov/pub/open-file-reports/ofr-00-0102>
- OF 00-0103. WYOMING. Coal recoverability in the Hilgait Quad-angle, Powder River basin, Wyoming; a prototype study in a west-



- ern coal field, by L. M. Osmonson, T. J. Rohrbacher, C. L. Molnia and G. L. Sullivan. 23 p. (NC, M, Da; Geological Surv. of Wyoming, P.O. Box 3008, University Station, Laramie, WY 82071.) Microfiche \$5; paper copy \$24. Available on the web at <http://greenwood.cr.usgs.gov/energy/coal/OF00-103/>
- OF 00-0131. U.S. Geological Survey collaboration with international authors, 1987-1998, by Valentina Markusova and P. P. Hearn. 274 p. Available on the web at <http://pubs.usgs.gov/openfile/of00-131/index.html>
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- OF 00-0168. Interaction between ground water and surface water in the northern Everglades and relation to water budget and mercury cycling; study methods and appendixes, by J. W. Harvey, S. L. Krupa, C. J. Gefvert, Jungvill Choi, R. H. Mooney and J. B. Giddings. Prepared in cooperation with the South Florida Water Management District. 395 p. (NC, Da, M, Wb.) Microfiche \$5; paper copy \$101.
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- OF 00-0200. ALASKA. Selected data from fourteen wildcat wells in the National Petroleum Reserve in Alaska, by F. N. Zihlman, H. L. Oliver, P. H. Nelson and J. E. Kibler. One CD-ROM. (NC, M, Da, A, S; Division of Geol. & Geophys. Surv., 794 University Ave., Suite 200, Fairbanks, AK 99709-3645; U.S. Dep. of Interior, Alaska Resources Library, 3150 C St. #100, Anchorage, AK 99503-3916.) \$32.
- System requirements: any computer system with a CD-ROM reader capable of reading the ISO 9960 standard, any web browser capable of handling tables, and Adobe Acrobat Reader, version 3.0 or later.
- OF 00-0213. Interagency field manual for the collection of water-quality data, compiled by D. L. Lurry and Christine Kolbe. Prepared in cooperation with the U.S. Environmental Protection Agency. 77 p. (NC, Da, M, Wb.) Microfiche \$5; paper copy \$21. Available on the web at <http://pubs.water.usgs.gov/ofr00-213>
- OF 00-0216. Comparison of phase velocities from array measurements of Rayleigh waves associated with microtremor and results calculated from borehole shear-wave velocity profiles, by Hsi-Ping Liu, D. M. Boore, W. B. Joyner, D. H. Oppenheimer, R. E. Warrick, Wenbo Zhang, J. C. Hamilton and L. T. Brown. 54 p. (NC, Da, M.) Microfiche \$5; paper copy \$13.50.
- OF 00-0217. NEVADA. ⁴⁰Ar/³⁹Ar, K-Ar, Rb-Sr whole-rock and mineral ages, chemical composition, strontium, oxygen and hydrogen isotopic systematics of Jurassic Humboldt Lopolith and Permian(?) and Triassic Koipato Group rocks, Pershing and Churchill counties, Nevada, by R. W. Kistler and R. C. Speed. 14 p. (NC, Da, M; Nevada Bur. of Mines and Geol., Univ. of Nevada, Reno, NV 89557.) Microfiche \$5; paper copy \$7.
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THEMATIC MAPS AND CHARTS

GEOLOGIC INVESTIGATIONS SERIES

In August 1996, the I-map series name was changed from Miscellaneous Investigations Series Maps to Geologic Investigations Series. All geologic maps approved for publication after August 1996 will be published in the Geologic Investigations Series. The series definition remains the same. Maps on planimetric or topographic bases; regular and irregular areas; various scales; a wide variety of format and subject matter. The series also includes 7 1/2-minute quadrangle photogeologic maps on planimetric bases which show geology as interpreted from aerial photographs. Series also includes maps of Mars and the Moon.

I-1088. HAWAII. Geologic map of the crater section of the Haleakala National Park, Maui, Hawaii, by G. A. Macdonald. 1978 (2000). Lat 20°42'30" to 20°45', long 156°10' to 156°15'. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 22 by 31 inches (in color). (Accompanied by 8 page text). (Reprinted 2000). \$7.

I-2463. WASHINGTON. Geologic map of the Sasquatch Steps area, north flank of Mount St. Helens, Washington, by B. P. Hausback. 2000. Lat 46°12'30" to 46°14'30", long 122°10'30" to 122°12'. Scale 1:4,000 (1 inch = about 333 feet). Sheet 51 by 40 inches (in color). \$7.

I-2540-D. NEW JERSEY. Surficial geologic map of central and southern New Jersey, by W. L. Newell, D. S. Powars, J. P. Owens, U.S. Geological Survey; S. D. Stanford, New Jersey Geological Survey; and B. D. Stone, U.S. Geological Survey. Prepared in cooperation with the New Jersey Geological Survey. 2000. Three sheets. Sheet 1, lat 39°45' to 40°30', long 74° to 75°; sheet 2, lat 39° to 39°45', long 74°7'30" to 74°30'. Scale 1:100,000 (1 inch = about 1.6 miles). Sheet 1, 55 by 39 inches; sheet 2, 53 by 41 inches; sheet 3, 54 by 36 inches (all in color). (Accompanied by 21 page text.) \$14.

I-2569. OREGON. Geologic map of upper Eocene to Holocene volcanic and related rocks of the Cascade Range, Oregon, by D. R. Sherrod and J. G. Smith. 2000. Two sheets. Lat 42° to 46°, long 121° to 123°30'. Scale 1:500,000 (1 inch = about 8 miles). Sheet 1, 33 by 47 inches; sheet 2, 32 by 21 inches (both in color). (Accompanied by 17 page text.) \$14.

I-2617. CALIFORNIA. Geologic map of the Lone Pine 15' quadrangle, Inyo County, California, by Paul Stone, G. C. Dunne, J. G. Moore and G. I. Smith. 2000. Lat 36°30' to 36°45', long 118° to



118°15'. Scale 1:62,500 (1 inch = about 1 mile). Sheet 50 by 35 inches (in color). Available on the web at <http://geopubs.wr.usgs.gov/i-map/i2617/>

I-2642. Geologic maps of the Dardanus Sulcus (Jg-6), Misharu (Jg-10), Nabu (Jg-11), and Namtar (Jg-14) quadrangles of Ganymede, by T. A. Maxwell and U. B. Marvin. Prepared for the National Aeronautics and Space Administration. 2001. Two sheets. Sheet 1, lat -22° to 22°, long 288°E to 72°W; sheet 2, lat -66° to -21°, long 270°E to 90°W. Sheet 1, scale 1:5,000,000 (1 mm = 5 km) at ± 13 latitude Mercator projection; sheet 2, scale 1:5,000,000 (1 mm = 5 km) at -30° and -58° latitude Lambert conformal projection. Sheet 1, 55 by 34 inches; sheet 2, 54 by 30 inches (both in color). \$14.

These quadrangles include dark and light materials on the surface of Ganymede in the equatorial and southern regions of the Jupiter-facing hemisphere. Light materials have formed at the expense of the older, darker materials, and are crossed by numerous sets of grooves. The geologic relations of various units in the map area are consistent with prior maps and investigations of the surface evolution of Ganymede.

I-2684. Geologic map of the Lavinia Planitia Quadrangle (V-55), Venus, by M. A. Ivanov and J. W. Head, III. Prepared for the National Aeronautics and Space Administration. 2001. Lat -50° to -25°, long 0° to 330°. Scale 1:4,711,886 (1 mm = 4.712 km) at -25° latitude Mercator projection; 1:5,000,000 at -34° and -73° latitudes Lambert projection. Sheet 43 by 40 inches (in color). \$7.

I-2686. Geologic map of the MTM -85000 quadrangle, Planum Australe region of Mars, by Ken Herkenhoff. Prepared for the National Aeronautics and Space Administration. 2001. Lat -87.5° to -82.5°, long 340°E to 20°W. Scale 1:500,000 (1 mm = 500 m) at -87.5° latitude. Sheet 38 by 370 inches (in color). (Polar Stereographic projection.) \$7.

The mapped quadrangle includes south polar layered deposits, high-albedo frost units, dark windblown material, and various older units. A mantle of bright, red dust has been deposited recently over much of the map area without obscuring morphologic features. The geologic relations between various units in the map area are consistent with previously published hypotheses for the origin and evolution of the polar layered deposits.

I-2688. ARIZONA. Geologic map of the Grand Canyon 30' \times 60' quadrangle, Coconino and Mohave counties, northwestern Arizona, by G. H. Billingsley. 2000. Lat 36° to 38°30', long 112° to 113°. Scale 1:100,000 (1 inch = about 1.6 miles). Sheet 58 by 42 inches (in color). (Accompanied by 15 page text.) Available on the web at <http://greenwood.cr.usgs.gov/pub/i-maps/i-2688/>

I-2736. CONNECTICUT. Sidescan sonar images, surficial geological interpretations, and bathymetry of the Long Island Sound sea floor in New Haven Harbor and New Haven dumping ground, Connecticut, by L. J. Poppe, U.S. Geological Survey; R. S. Lewis, Connecticut Geological and Natural History Survey; H. J. Knebel, E. A. Haase, K. F. Parolski, U.S. Geological Survey; M. L. DiGiacomo-Cohen, Connecticut Geological and Natural History Survey. Prepared in cooperation with the State of Connecticut, Department of Environmental Protection, Geological and Natural History Survey. 2001. Two sheets. Sheet 1, lat 41°12'N to 41°16'N, long 72°53'W to 72°59'W; sheet 2, lat 41°08'N to

41°09'N, long 72°51'W to 72°54'W. Sheet 1, scale 1:20,000 (1 inch = about 1,667 feet); sheet 2, scale 1:15,000 (1 inch = 1,250 feet). Sheet 1, 58 by 41 inches; sheet 2, 45 by 37 inches. (Accompanied by 8 page text.) \$14.

I-2741. OHIO, NEW YORK, PENNSYLVANIA. Subsurface correlations and sequence stratigraphic interpretations of Lower Silurian strata in the Appalachian Basin of Northeast Ohio, Southwest New York, and Northwest Pennsylvania, by R. D. Hettinger. 2001. Sheet 60 by 36 inches (in color). (Accompanied by 22 page text.) Available on the web at <http://greenwood.cr.usgs.gov/pub/i-maps/i-2741/>

CIRCUM-PACIFIC MAP SERIES

Multicolor equal-area maps at scales of 1:10,000,000 for the Northwest, Northeast, Southwest, Southeast quadrants of the Pacific and the Arctic and Antarctic regions, and of 1:17,000,000 for the whole Pacific Basin. The series consists of base, geographic, geodynamic, plate-tectonic, geologic, tectonic, mineral-resources, and energy-resources maps, as well as other miscellaneous maps.

CP-0051. Energy-resources map of the Circum-Pacific region; Arctic sheet, by K. J. Drummond, Canada National Energy Board; G. W. Moore, Oregon State University; Tomoaki Sumii, Geological Survey of Japan; Hiro'o Natori, Geological Survey of Japan; Masakazu Kato, Japan National Oil Corporation; G. H. Wood, P. W. Richards, W. V. Bour, III, U.S. Geological Survey; Keizo Fujii, Eiji Inoue, Masatoshi Sogabe, Osamu Matsubayashi, Yoji Teraoka, Geological Survey of Japan; and T. R. Swint-Iki, U.S. Geological Survey. 2000. Lat 30° to 90°, long 180° to 180°. Scale 1:10,000,000 (1 inch = about 160 miles). Sheet 54 by 40 inches (in color). (Accompanied by 27 page text.) \$7.

MISCELLANEOUS FIELD STUDIES MAPS

Multicolor or black and white maps on topographic or planimetric bases; quadrangle or irregular areas; various scales. Pre-1971 maps show bedrock geology in relation to specific mining or mineral-deposit problems; the majority of post-1971 maps are preliminary black and white maps on various subjects such as environmental studies or Wilderness mineral investigations.

MF-2347. COLORADO. Generalized surficial geologic map of the Denver 1° \times 2° quadrangle, Colorado, by D. W. Moore, A. W. Straub, M. E. Berry, M. L. Baker and T. R. Brandt. 2001. Lat 39° to 40°, long 104° to 106°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 49 by 25 inches (in color). (Accompanied by 27 page text.) Available on the web at <http://greenwood.cr.usgs.gov/pub/mf-maps/mf-2347/>

This map locates surficial geologic deposits of Quaternary age in the greater Denver area and surrounding region. Physical properties of the deposits are described. Origins and ages of the deposits, and their inherent geologic hazards are identified. The properties of deposits and materials on and near the land surface effect and its suitability for societal uses. The map can also be used as a tool for the management and research of natural resources.

MF-2349. CALIFORNIA. Geologic map and map database of the Spreckels 7.5-minute quadrangle, Monterey County, California, by J. C. Clark, Indiana University of Pennsylvania; E. E. Brabb, U.S. Geological Survey; L. I. Rosenberg, Consultant; H. V. Goss, U.S. Geological Survey and S. E. Watkins, California Division of Mines and Geology. Prepared in cooperation with the California



Division of Mines. 2001. Lat 36°30' to 36°37'30", long 121°37'30" to 121°45'. Scale 1:24,000 (1 inch = 2000 feet). Sheet 30 1/2 by 32 inches (in color). (Accompanied by 22 page text.) Available on the web at <http://geopubs.wr.usgs.gov/map-mf/mf2349/>

MF-2354. WASHINGTON, IDAHO. Geologic map of the Chewelah 30' × 60' quadrangle, Washington and Idaho, by F. K. Miller. 2000. Lat 48° to 48°30', long 117° to 118°. Scale 1:100,000 (1 inch = about 1.6 miles). Sheet 34 by 40 inches (in color). Available on the web at <http://geopubs.wr.usgs.gov/map-mf/mf2354/>

MF-2359. COLORADO. Geologic map of the Clifton Quadrangle, Mesa County, Colorado, by P. E. Carrara. 2001. Lat 39° to 39°07'30", long 108°22'30" to 108°30'. Scale 1:24,000 (1 inch = 2,000 feet). Sheet 41 1/2 by 33 inches (in color). Available on the web at <http://greenwood.cr.usgs.gov/pub/mf-maps/mf-2359/>

HYDROLOGIC INVESTIGATIONS ATLASES

Multicolored or black and white maps on topographic or planimetric bases presenting a wide range of geohydrologic data; both regular and irregular areas.

HA-0746-A. COLORADO. Geohydrology of the shallow aquifers in the Greeley-Nunn area, Colorado, by S. G. Robson, L. R. Arnold and J. S. Heiny. Prepared in cooperation with the Colorado Department of Natural Resources, Division of Water Resources, and the Colorado Water Conservation Board. 2000. Five sheets. Lat 40°20'30" to 40°45', long 104°37'30" to 104°52'30". Scale 1:50,000 (1 inch = about 4,200 feet). All sheets 36 by 46 inches (in color). \$14.

Shallow aquifers are present in unconsolidated sediments overlying bedrock in the Greeley-Nunn area, Colorado. Geologic and hydrologic mapping has produced a series of five maps showing extent and thickness of the unconsolidated sediments, altitude of the bedrock surface, altitude of the water table, saturated thickness, and depth to water.

HA-0746-B. COLORADO. Geohydrology of the shallow aquifers in the Fort Collins-Loveland area, Colorado, by S. G. Robson, L. R. Arnold and J. S. Heiny. Prepared in cooperation with the Colorado Department of Natural Resources, Division of Water Resources, and the Colorado Water Conservation Board. 2000. Five sheets. Lat 40°22'30" to 40°45', long 104°52'30" to 105°07'30". Scale 1:50,000 (1 inch = about 4,200 feet). All sheets 36 by 46 inches (in color). \$14.

Shallow aquifers are present in unconsolidated sediments overlying bedrock in the Fort Collins-Loveland area, Colorado. Geologic and hydrologic mapping has produced a series of five maps showing extent and thickness of the unconsolidated sediments, altitude of the bedrock surface, altitude of the water table, saturated thickness, and depth to water.

HA-0746-C. COLORADO. Geohydrology of the shallow aquifers in the Fort Lupton-Gilcrest area, Colorado, by S. G. Robson, J. S. Heiny and L. R. Arnold. Prepared in cooperation with the Colorado Department of Natural Resources, Division of Water Resources; Colorado Water Conservation Board. 2000. Five sheets. Lat 39°55' to 40°20', long 104°36'30" to 104°55'30". Scale

1:50,000 (1 inch = about 4,200 feet). All sheets 36 by 46 inches (in color). \$14.

Shallow aquifers are present in unconsolidated sediments overlying bedrock in the Fort Lupton-Gilcrest area, Colorado. Geologic and hydrologic mapping has produced a series of five maps showing extent and thickness of the unconsolidated sediments, altitude to bedrock surface, altitude of the water table, saturated thickness, and depth to water.

SPECIAL MAPS

PENNSYLVANIA. Commonwealth of Pennsylvania; land cover. Produced in partnership with the Pennsylvania Bureau of Topographic and Geologic Survey, Department of Conservation and Natural Resources. 2000. Lat 39°45' to 42°15', long 74°45' to 80°30'. Scale 1:500,000 (1 inch = about 8 miles). Sheet 44 by 29 inches (in color). \$7.

This map was developed from a mosaic of 16 Landsat thematic mapper scenes, recorded primarily during the summer months of 1986-93. Elevation data, population density data, and National Wetlands Inventory data were used to refine the land cover classification. Water bodies were derived from 1:100,000-scale digital line graphs. Twenty-one classes of land cover are mapped by using consistent procedures for the entire United States. The resulting National Land Cover Data, from which the Pennsylvania map was derived, will be used for applications such as watershed management, environmental inventories, transportation modeling, fire risk assessment, and land management.

Forest cover types. Prepared in cooperation with U.S. Department of Agriculture, U.S. Forest Service. 2000. Lat 17°30' to 70°, long 64° to 170°. Scale 1:7,500,000 (1 inch = about 118). Sheet 28 by 32 inches (in color). \$7. Available on the web at <http://www.nationalatlas.gov>

Breaking with convention, the map presents Alaska, Hawaii, Puerto Rico, and the U.S. Virgin Islands at the same scale as the conterminous United States but not in the traditional spot on the map. A small map that clearly shows the relative positions of all of these has been added. Thumbnail maps have been introduced as part of the legend to help the map reader quickly determine the geographic extent of each forest type. The forest cover types shown on this map were derived from Advanced Very High Resolution Radiometer (AVHRR) composite images recorded during the 1991 growing season. Field data collected by the Forest Service were used to aid the classification of AVHRR composites into forest cover types. Forest information was overlaid on a shaded relief map of the United States.

Indian lands in the United States, by U. S. Department of Interior, U. S. Bureau of Indian Affairs, Geographic Data Service Center. 2000. Lat 24° to 70°, long 66° to 170°. Scale 1:5,000,000 (1 inch = about 80 miles). Sheet 44 by 31 inches (in color). \$7.

This map illustrates the American Indian geographic entities as of 1998. The map also shows legal and statistical tribal entities within the conterminous U.S. and Alaska. These tribal entities are Federally recognized. American Indian lands were derived from 1992 U.S. Bureau of Census TIGER/LINE files.

National wild and scenic rivers system, January 2000. Produced in cooperation with USDA Forest Service; USDI Bureau of Land



Management, Fish and Wildlife Service, and National Park Service. 2000. Lat 25° to 70°, long 65° to 180°. Scale 1:5,000,000 (1 inch = about 80 miles). Sheet 42 by 28 inches (in color). \$7.

The national wild and scenic rivers system was created by Congress in 1968 to preserve certain rivers with outstanding natural, cultural, or recreational features in a free-flowing condition for the enjoyment of present and future generations. As of January 2000, the national system has grown from an initial eight components to a 156-river system with representation in 37 states. This map shows a shaded relief image of the conterminous United States on one side and a shaded relief image of Alaska on the other. It identifies rivers designated as wild, scenic, or recreational; describes the activities permitted on the river; and lists the office responsible for administering each river.



OUTSIDE PUBLICATIONS

ARTICLES AND REPORTS

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TOPOGRAPHIC MAPS

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State	Map Name	Map Type	Revision Type	Currentness Year	SE Corner DDDMMSS		Scale	Contour	
					Lat	Long		Value	Unit
AK	Fort Yukon (C-5)	63K TOPO MAP (AK)	MINOR CHANGE REPRINT	1995	663000N	1460000W	00063360	50	FT
AL	Little Texas	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	322230N	0853000W	00024000	10	FT
AL	Loachapoka	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	323000N	0853000W	00024000	10	FT
AL	Tuskegee	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	322230N	0853730W	00024000	10	FT
AZ	Ajo South	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1996	321500N	1124500W	00024000	20	FT
AZ NM	Alma Mesa	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	332230N	1090000W	00024000	40	FT
AZ	Alpine	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	334500N	1090730W	00024000	20	FT
AZ	Antelope Hills	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1996	320730N	1131500W	00024000	20	FT
AZ	Bear Mountain	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	333000N	1090730W	00024000	40	FT
AZ	Beaverhead	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	333730N	1090730W	00024000	40	FT
AZ	Big Lake South	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	334500N	1092230W	00024000	20	FT
AZ NM	Big Lue Mountains	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	330000N	1090000W	00024000	40	FT
AZ	Boundary Butte	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	340730N	1093730W	00024000	20	FT
AZ	Burro Gap	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1996	322230N	1123730W	00024000	20	FT
AZ	Chevelon Crossing	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	343000N	1104500W	00024000	20	FT



AZ	Chico Shunie	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1996	321500N 1125230W	00024000	20	FT
AZ	Childs Mountain	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1996	322230N 1125230W	00024000	20	FT
AZ	Cimarron Peak	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1996	322230N 1122230W	00024000	20	FT
AZ	Clifton	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	330000N 1091500W	00024000	40	FT
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AZ	Copperplate Gulch	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	330000N 1092230W	00024000	40	FT
AZ	Coronado Mountain	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	330730N 1092230W	00024000	40	FT
AZ	Coyote Water	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1996	321500N 1135230W	00024000	20	FT
AZ	Day Spring	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	341500N 1102230W	00024000	40	FT
AZ	Dix Creek	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	330730N 1090730W	00024000	40	FT
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AZ NM	Maness Peak	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	333730N 1090000W	00024000	40	FT
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AZ	Silver Springs	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	341500N 1095230W	00024000	20	FT
AZ	Springerville	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	340730N 1091500W	00024000	20	FT
AZ	Springerville NW	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	340730N 1092230W	00024000	20	FT
AZ	Strayhorse	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	333000N 1091500W	00024000	40	FT
AZ	Tinajas Altas	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1996	321500N 1140000W	00024000	40	FT
AZ	Vaya Chin	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1996	321500N 1121500W	00024000	20	FT
AZ	Vernon	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	341500N 1093730W	00024000	10	FT
AZ	Wahak Hotrontk	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1996	320730N 1121500W	00024000	20	FT
AZ	West of Wahak Hotrontk	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1996	320730N 1122230W	00024000	10	FT
AZ	Whiting Knoll	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	340730N 1093000W	00024000	20	FT
AZ NM	Willcox	BLM SURFACE MANAGEMENT STATUS MAP	TOPOGRAPHIC EDITIONS	1999	320000N 1090000W	00100000	50	MR
AZ	Window Mountain	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1996	321500N 1120730W	00024000	20	FT
AZ	Zeniff	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	343000N 1102230W	00024000	10	FT
CA	Alder Springs	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	393730N 1223730W	00024000	40	FT
CA	Ball Mountain	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	395230N 1224500W	00024000	40	FT
CA	Bartlett Mountain	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	390730N 1224500W	00024000	40	FT
CA	Bartlett Springs	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	390730N 1223730W	00024000	40	FT
CA	Benmore Canyon	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	390000N 1223000W	00024000	40	FT
CA	Bluenose Ridge	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1995	395230N 1230730W	00024000	40	FT
CA	Brushy Mountain	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	393000N 1230730W	00024000	40	FT



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CA	Buck Rock	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1995	395230N 1225230W	00024000	40	FT
CA	Carpinteria	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1995	342230N 1193000W	00024000	50	FT
CA	Chrome	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1995	393730N 1223000W	00024000	40	FT
CA	Clearlake Oaks	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	390000N 1223730W	00024000	40	FT
CA	Condrey Mountain	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	415230N 1225230W	00024000	20	MR
CA	Crockett Peak	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	392230N 1224500W	00024000	40	FT
CA	Del Mar	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1994	325230N 1170730W	00024000	20	FT
CA	Dutch Creek	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	415230N 1230000W	00024000	40	FT
CA	Elk Creek	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	393000N 1223000W	00024000	40	FT
CA	Elk Mountain	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	391500N 1225230W	00024000	40	FT
CA	Eureka	BLM SURFACE MANAGEMENT STATUS MAP	TOPOGRAPHIC EDITIONS	2000	403000N 1240000W	00100000	50	MR
CA OR	Figurehead Mountain	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	415230N 1231500W	00024000	40	FT
CA	Foster Mountain	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	392230N 1230730W	00024000	40	FT
CA	Fouts Springs	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	391500N 1223730W	00024000	40	FT
CA	Gilmore Peak	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	391500N 1223000W	00024000	40	FT
CA	Hall Ridge	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	394500N 1223730W	00024000	40	FT
CA	Hough Springs	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	390730N 1223000W	00024000	40	FT
CA	Hull Mountain	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	393000N 1225230W	00024000	40	FT
CA	Kneecap Ridge	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	393000N 1224500W	00024000	40	FT
CA	La Jolla	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1996	324500N 1170730W	00024000	20	FT
CA	Lake Pillsbury	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	392230N 1225230W	00024000	40	FT
CA	Lakeport	BLM SURFACE MANAGEMENT STATUS MAP	TOPOGRAPHIC EDITIONS	1997	390000N 1220000W	00100000	50	MR
CA	Lancaster	BLM SURFACE MANAGEMENT STATUS MAP	TOPOGRAPHIC EDITIONS	2000	343000N 1180000W	00100000	50	MR



CA	Leech Lake Mountain	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1995	395230N	1230000W	00024000	40	FT
CA	Log Spring	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1995	394500N	1224500W	00024000	40	FT
CA	Lopez Point	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1995	360000N	1213000W	00024000	40	FT
CA	Lucerne	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	390000N	1224500W	00024000	40	FT
CA	Mendocino Pass	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	394500N	1225230W	00024000	40	FT
CA	Mesa Grande	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	330730N	1164500W	00024000	20	FT
CA	Mount Shasta	BLM SURFACE MANAGEMENT STATUS MAP	TOPOGRAPHIC EDITIONS	2000	410000N	1220000W	00100000	50	MR
CA	Newhouse Ridge	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1995	394500N	1230000W	00024000	40	FT
CA	Newville	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1995	394500N	1223000W	00024000	40	FT
CA	Oceanside	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1997	330730N	1172230W	00024000	20	FT
CA	Paskenta	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1995	395230N	1223000W	00024000	40	FT
CA	Plaskett Meadows	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1995	393730N	1224500W	00024000	40	FT
CA	Plaskett Ridge	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	393730N	1225230W	00024000	40	FT
CA	Potato Hill	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	391500N	1224500W	00024000	40	FT
CA	Potter Valley	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	391500N	1230000W	00024000	40	FT
CA	Raglin Ridge	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1995	400000N	1223730W	00024000	40	FT
CA	Riley Ridge	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1995	395230N	1223730W	00024000	40	FT
CA	San Luis Rey	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1997	330730N	1171500W	00024000	20	FT
CA	San Marcos	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1996	330730N	1170730W	00024000	20	FT
CA	Sanhedrin Mountain	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	393000N	1230000W	00024000	40	FT
CA	Santa Barbara	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1995	342230N	1193730W	00024000	50	FT
CA	Santa Paula Peak	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1995	342230N	1190000W	00024000	40	FT
CA	St John Mountain	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	392230N	1223730W	00024000	40	FT
CA	Stonyford	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	392230N	1223000W	00024000	40	FT



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CA	Thatcher Ridge	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1995	393730N 1230000W	00024000	40	FT
CA	Upper Lake	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	390730N 1225230W	00024000	40	FT
CA	Valley Center	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1996	330730N 1170000W	00024000	20	FT
CA	Van Arsdale Reservoir	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	392230N 1230000W	00024000	40	FT
CA	White Ledge Peak	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1995	342230N 1192230W	00024000	40	FT
CA	Willows	BLM SURFACE MANAGEMENT STATUS MAP	TOPOGRAPHIC EDITIONS	2000	393000N 1220000W	00100000	50	MR
CO	Andrix	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	371500N 1030730W	00024000	10	FT
CO	Antelope Reservoir	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	403730N 1043730W	00024000	10	FT
CO	Avalo	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	404500N 1033730W	00024000	10	FT
CO	Avalo SE	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	404500N 1033000W	00024000	10	FT
CO	Baker Draw	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	403730N 1042230W	00024000	10	FT
CO	Battle Canyon	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	405230N 1033730W	00024000	10	FT
CO	Beaty Canyon	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	373000N 1033000W	00024000	20	FT
CO	Big Hole Canyon	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	370000N 1025230W	00024000	20	FT
CO	Bisonte	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	371500N 1023000W	00024000	10	FT
CO	Bloom	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	373730N 1035230W	00024000	20	FT
CO	Briggsdale	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	403730N 1041500W	00024000	10	FT
CO	Buckingham	24K TOPO MAP	LIMITED UPDATE	1997	403000N 1035230W	00024000	10	FT
CO	Campo	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	370000N 1023000W	00024000	10	FT
CO	Campo NE	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	370730N 1023000W	00024000	10	FT
CO	Campo NW	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	370730N 1023730W	00024000	10	FT
CO	Campo SW	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	370000N 1023730W	00024000	10	FT
CO WY	Carr East	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	405230N 1044500W	00024000	10	FT
CO	Carrizo Mountain	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	370730N 1030000W	00024000	20	FT



CO	Chalk Bluffs East	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	405230N 1043000W	00024000	10	FT
CO	Chalk Bluffs West	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	405230N 1043730W	00024000	10	FT
CO	Cherry Canyon	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	371500N 1032230W	00024000	20	FT
CO	Cornish	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	403000N 1042230W	00024000	10	FT
CO	Dalerose Mesa	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	370730N 1032230W	00024000	20	FT
CO	Delhi	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	373730N 1040000W	00024000	20	FT
CO	Dipper Spring	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	405230N 1033000W	00024000	10	FT
CO	Dolan Spring	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	405230N 1035230W	00024000	10	FT
CO	Doss Canyon North	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	372230N 1034500W	00024000	20	FT
CO	Dover	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	404500N 1044500W	00024000	10	FT
CO	Eastman Creek SE	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	404500N 1043000W	00024000	10	FT
CO	Eastman Creek South	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	404500N 1043730W	00024000	10	FT
CO	Elder	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	380000N 1035230W	00024000	10	FT
CO NM	Furnish Canyon East	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	370000N 1030000W	00024000	20	FT
CO	Hawley	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	375230N 1033730W	00024000	10	FT
CO	Higbee	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	374500N 1032230W	00024000	10	FT
CO	Humbar Spring	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	371500N 1033730W	00024000	20	FT
CO	Keota NW	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	403730N 1040730W	00024000	10	FT
CO	Keota SE	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	403000N 1040000W	00024000	10	FT
CO	Kim North	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	371500N 1031500W	00024000	10	FT
CO	Kim South	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	370730N 1031500W	00024000	20	FT
CO	La Junta	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	375230N 1033000W	00024000	10	FT
CO	La Junta SE	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	374500N 1033000W	00024000	10	FT
CO	La Junta SW	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	374500N 1033730W	00024000	10	FT



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CO	Lone Rock	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	371500N 1025230W	00024000	10	FT
CO	Miners Peak	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	370730N 1033730W	00024000	20	FT
CO	Moore Draw NE	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	370730N 1021500W	00024000	10	FT
CO	Moore Draw NW	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	370730N 1022230W	00024000	10	FT
CO	Moore Draw SE	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	370000N 1021500W	00024000	10	FT
CO	Moore Draw SW	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	370000N 1022230W	00024000	10	FT
CO	O V Mesa	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	373000N 1033730W	00024000	20	FT
CO	Packers Gap	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	373730N 1033730W	00024000	10	FT
CO	Pawnee Buttes	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	404500N 1035230W	00024000	10	FT
CO	Pintada Creek	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	370730N 1030730W	00024000	20	FT
CO	Pritchett	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	371500N 1024500W	00024000	10	FT
CO	Purcell	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	403730N 1043000W	00024000	10	FT
CO	Raymer	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	403000N 1034500W	00024000	10	FT
CO	Raymer NE	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	403730N 1034500W	00024000	10	FT
CO	Raymer NW	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	403730N 1035230W	00024000	10	FT
CO	Reader Lake	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	370730N 1025230W	00024000	10	FT
CO	Reno Reservoir	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	404500N 1042230W	00024000	10	FT
CO	Riley Canyon	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	373730N 1033000W	00024000	20	FT
CO	Sheep Canyon	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	373730N 1034500W	00024000	20	FT
CO	Snowden Lake	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	374500N 1040000W	00024000	10	FT
CO	Stoneham	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	403000N 1033730W	00024000	10	FT
CO	Stoneham NE	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	403730N 1033000W	00024000	10	FT
CO	Stoneham NW	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	403730N 1033730W	00024000	10	FT
CO	Timpas NE	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	375230N 1034500W	00024000	10	FT



CO	Tobe	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	370730N 1033000W	00024000	20	FT
CO OK	Tubs Springs	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	370000N 1024500W	00024000	10	FT
CO	Uteleyville	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	371500N 1030000W	00024000	10	FT
CO	Vilas South	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	371500N 1022230W	00024000	10	FT
CO	Villegreen	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	371500N 1033000W	00024000	10	FT
CO	Vim School	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	405230N 1034500W	00024000	10	FT
CO	Walsenburg	BLM SURFACE MANAGEMENT STATUS MAP	TOPOGRAPHIC EDITIONS	2000	373000N 1040000W	00100000	20	MR
CO	Walsenburg	BLM SURFACE MINERALS MANAGEMENT STATUS MAP	TOPOGRAPHIC EDITIONS	2000	373000N 1040000W	00100000	20	MR
DE NJ	Taylor's Bridge	24K TOPO MAP	MINOR REVISION REPRINT	1999	392230N 0753000W	00024000	5	FT
FL	Cooper City	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1994	260000N 0801500W	00024000	5	FT
FL	Halfmoon Lake	24K TOPO MAP	MINOR REVISION REPRINT	1999	290730N 0814500W	00024000	5	FT
FL	Hialeah SW	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1995	254500N 0802230W	00024000	5	FT
FL	Lake Woodruff	24K TOPO MAP	MINOR REVISION REPRINT	1999	290000N 0812230W	00024000	5	FT
FL	Oldsmar	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1995	280000N 0823730W	00024000	5	FT
FL	Pennsuko	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1994	255230N 0802230W	00024000	5	FT
FL	Sarasota	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1994	271500N 0823000W	00024000	5	FT
FL	South Miami	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1994	253730N 0801500W	00024000	5	FT
FL	South Miami NW	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1994	253730N 0802230W	00024000	5	FT
FL	Thonotosassa	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1995	280000N 0821500W	00024000	5	FT
GA	Albany West	24K TOPO MAP	MINOR REVISION REPRINT	1997	313000N 0840730W	00024000	5	FT
GA AL	Columbus	24K TOPO MAP	MINOR REVISION REPRINT	1999	322230N 0845230W	00024000	10	FT
GA	Cumberland Island North	24K TOPO/BATHY MAP	MINOR REVISION REPRINT	1998	305230N 0812230W	00024000	5	FT
HI	Garden of the Gods	24K TOPO MAP	MINOR REVISION REPRINT	1991	205100N 1565630W	00024000	10	MR



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HI	Ha'alelepa'akai	24K TOPO MAP	MINOR REVISION REPRINT	1992	204330N 1564730W	00024000	10	MR
HI	Hualalai	24K TOPO MAP	MINOR REVISION REPRINT	1993	193730N 1554500W	00024000	40	FT
HI	Kahana	24K TOPO MAP	MINOR REVISION REPRINT	1992	213000N 1574630W	00024000	40	FT
HI	Kalae	24K TOPO MAP	MINOR REVISION REPRINT	1995	185230N 1553500W	00024000	40	FT
HI	Lana'i City	24K TOPO MAP	MINOR REVISION REPRINT	1992	204330N 1565500W	00024000	10	MR
HI	Makalau	24K TOPO MAP	MINOR REVISION REPRINT	1991	205100N 1564900W	00024000	10	MR
HI	Manuka Bay	24K TOPO MAP	MINOR REVISION REPRINT	1995	190000N 1555230W	00024000	40	FT
HI	Pu'u'ouo	24K TOPO MAP	MINOR REVISION REPRINT	1993	193000N 1553730W	00024000	40	FT
HI	Pu'uhou	24K TOPO MAP	MINOR REVISION REPRINT	1995	185230N 1554200W	00024000	40	FT
HI	Pu'ukinikini	24K TOPO MAP	MINOR REVISION REPRINT	1995	191500N 1553000W	00024000	40	FT
HI	Pu'ulehua	24K TOPO MAP	MINOR REVISION REPRINT	1993	193000N 1554500W	00024000	40	FT
HI	Punalu'u	24K TOPO MAP	MINOR REVISION REPRINT	1995	190730N 1553000W	00024000	40	FT
ID	Arco	BLM SURFACE MANAGEMENT STATUS MAP	TOPOGRAPHIC EDITIONS	2000	433000N 1130000W	00100000	20	MR
ID	Blackfoot	BLM SURFACE MANAGEMENT STATUS MAP	TOPOGRAPHIC EDITIONS	2000	430000N 1120000W	00100000	50	MR
ID	Circular Butte	BLM SURFACE MANAGEMENT STATUS MAP	TOPOGRAPHIC EDITIONS	2000	433000N 1120000W	00100000	50	MR
ID MT	Dubois	BLM SURFACE MANAGEMENT STATUS MAP	TOPOGRAPHIC EDITIONS	2000	440000N 1120000W	00100000	50	MR
ID	Lake Walcott	BLM SURFACE MANAGEMENT STATUS MAP	TOPOGRAPHIC EDITIONS	2000	423000N 1130000W	00100000	20	MR
ID UT	Malad City	BLM SURFACE MANAGEMENT STATUS MAP	TOPOGRAPHIC EDITIONS	2000	420000N 1120000W	00100000	50	MR
ID NV	Rogerson	BLM SURFACE MANAGEMENT STATUS MAP	TOPOGRAPHIC EDITIONS	2000	420000N 1140000W	00100000	20	MR
IL IN	Calumet City	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1998	413000N 0873000W	00024000	5	FT
IL	Clinton	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1999	400730N 0885230W	00024000	5	FT
IL	Joliet	24K TOPO MAP	MINOR REVISION REPRINT	1998	413000N 0880000W	00024000	10	FT



IL	Tonica	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1998	410730N 0890000W	00024000	1.5	MR
IN	Bridgeport	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1998	393730N 0861500W	00024000	5	FT
IN	Clear Creek	24K TOPO MAP	MINOR REVISION REPRINT	1999	390000N 0863000W	00024000	10	FT
IN	Nineveh	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1998	391500N 0860000W	00024000	10	FT
IN	Whiting	24K TOPO MAP	MINOR REVISION REPRINT	1998	413730N 0872230W	00024000	5	FT
KY	Frankfort West	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1997	380730N 0845230W	00024000	10	FT
KY IN	Louisville West	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1998	380730N 0854500W	00024000	10	FT
KY	Richmond South	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1997	373730N 0841500W	00024000	10	FT
KY	Somerset	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1997	370000N 0843000W	00024000	10	FT
LA	Belle Isle	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1998	293000N 0912230W	00024000	5	FT
LA	Black Lake	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1998	300000N 0932230W	00024000	5	FT
LA	Breaux Bridge	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1998	301500N 0915230W	00024000	5	FT
LA	Duson	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1998	300730N 0920730W	00024000	5	FT
LA	Gray	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1998	293730N 0904500W	00024000	5	FT
LA MS	Haaswood	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1998	301500N 0893730W	00024000	5	FT
LA	Houma	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1998	293000N 0903730W	00024000	5	FT
LA	Lacamp	24K TOPO MAP	MINOR REVISION REPRINT	1999	310730N 0925230W	00024000	10	FT
LA	Milton	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1998	300000N 0920000W	00024000	5	FT
LA	Monroe North	24K TOPO MAP	MINOR REVISION REPRINT	1999	323000N 0920000W	00024000	5	FT
LA	New Orleans East	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1998	295230N 0900000W	00024000	5	FT
LA	Pollock	24K TOPO MAP, PROVISIONAL	MINOR REVISION REPRINT	1999	313000N 0922230W	00024000	10	FT
LA	Steep Gully	24K TOPO MAP	MINOR REVISION REPRINT	1997	305230N 0924500W	00024000	10	FT
LA	Sulphur	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1998	300730N 0932230W	00024000	5	FT
LA	West Monroe North	24K TOPO MAP	MINOR REVISION REPRINT	1999	323000N 0920730W	00024000	10	FT



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MA VT	North Adams	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	423730N 0730000W	00024000	10	FT
MA VT	Rowe	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	423730N 0725230W	00024000	20	FT
MA NY	Stephentown Center	25K TOPO MAP (7.5 X 15)	MINOR REVISION REPRINT	1998	423000N 0731500W	00025000	6	MR
MA VT	Williamstown	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	423730N 0730730W	00024000	10	FT
MD PA	Rising Sun	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1998	393730N 0760000W	00024000	20	FT
MD WV	Williamsport	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1997	393000N 0774500W	00024000	20	FT
ME	Bath	24K TOPO MAP	MINOR REVISION REPRINT	2000	435230N 0694500W	00024000	10	FT
ME	Bethel	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1995	442230N 0704500W	00024000	20	FT
ME	Center Lovell	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1995	440730N 0705230W	00024000	20	FT
ME	Kennebago Lake	24K TOPO MAP	MINOR REVISION REPRINT	1997	450000N 0703730W	00024000	20	FT
ME	Readfield	24K TOPO MAP	MINOR REVISION REPRINT	2000	442230N 0695230W	00024000	10	FT
ME	Westport	24K TOPO MAP	MINOR REVISION REPRINT	2000	435230N 0693730W	00024000	10	FT
ME	Winthrop	24K TOPO MAP	MINOR REVISION REPRINT	2000	441500N 0695230W	00024000	10	FT
MN	Deer River	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	471500N 0934500W	00024000	10	FT
MN	Goose Lake	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	470730N 0935230W	00024000	10	FT
MN	Little Winnibigoshish Lake	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	472230N 0940000W	00024000	10	FT
MN	Sugar Point	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	470730N 0941500W	00024000	10	FT
MS	Dedaux	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1997	302230N 0891500W	00024000	10	FT
MS	Gulfport NW	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1997	302230N 0890730W	00024000	10	FT
MS LA	Nicholson	24K TOPO MAP	MINOR REVISION REPRINT	1998	302230N 0893730W	00024000	5	FT
MT	Belt	BLM SURFACE MANAGEMENT STATUS MAP	TOPOGRAPHIC EDITIONS	2000	470000N 1100000W	00100000	50	MR
MT	Belt	BLM SURFACE MINERALS MANAGEMENT STATUS MAP	TOPOGRAPHIC EDITIONS	2000	470000N 1100000W	00100000	50	MR
MT ND	Culbertson	BLM SURFACE MANAGEMENT STATUS MAP	TOPOGRAPHIC EDITIONS	2000	480000N 1040000W	00100000	20	MR



MT ND	Culbertson	BLM SURFACE MINERALS MANAGEMENT STATUS MAP	TOPOGRAPHIC EDITIONS	2000	480000N 1040000W	00100000	20	MR
MT	Elephant Peak	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	480000N 1153730W	00024000	40	FT
MT	Fort Benton	BLM SURFACE MINERALS MANAGEMENT STATUS MAP	TOPOGRAPHIC EDITIONS	1999	473000N 1100000W	00100000	20	MR
MT	Fort Benton	BLM SURFACE MINERALS MANAGEMENT STATUS MAP	TOPOGRAPHIC EDITIONS	1999	473000N 1100000W	00100000	20	MR
MT	Hysham	BLM SURFACE MINERALS MANAGEMENT STATUS MAP	TOPOGRAPHIC EDITIONS	1999	460000N 1070000W	00100000	20	MR
MT	Hysham	BLM SURFACE MINERALS MANAGEMENT STATUS MAP	TOPOGRAPHIC EDITIONS	1999	460000N 1070000W	00100000	20	MR
MT	Sand Springs	BLM SURFACE MINERALS MANAGEMENT STATUS MAP	TOPOGRAPHIC EDITIONS	2000	470000N 1070000W	00100000	20	MR
MT	Sand Springs	BLM SURFACE MINERALS MANAGEMENT STATUS MAP	TOPOGRAPHIC EDITIONS	2000	470000N 1070000W	00100000	20	MR
MT AB	Sweet Grass Hills	BLM SURFACE MINERALS MANAGEMENT STATUS MAP	TOPOGRAPHIC EDITIONS	1999	483000N 1110000W	00100000	20	MR
MT AB	Sweet Grass Hills	BLM SURFACE MINERALS MANAGEMENT STATUS MAP	TOPOGRAPHIC EDITIONS	1999	483000N 1110000W	00100000	20	MR
MT	Winnett	BLM SURFACE MINERALS MANAGEMENT STATUS MAP	TOPOGRAPHIC EDITIONS	2000	470000N 1080000W	00100000	20	MR
MT	Winnett	BLM SURFACE MINERALS MANAGEMENT STATUS MAP	TOPOGRAPHIC EDITIONS	2000	470000N 1080000W	00100000	20	MR
NC	Bunn West	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1998	355230N 0781500W	00024000	10	FT
NC	Dobbersville	24K TOPO MAP	LIMITED UPDATE (DIGITAL REVISION)	1997	350730N 0780730W	00024000	5	FT
NC	Faison	24K TOPO MAP	LIMITED UPDATE (DIGITAL REVISION)	1997	350000N 0780730W	00024000	5	FT
NC	Fayetteville	24K TOPO MAP	LIMITED UPDATE (DIGITAL REVISION)	1997	350000N 0785230W	00024000	10	FT
NC	Flowers	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1998	353730N 0781500W	00024000	10	FT
NC	King	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1996	361500N 0801500W	00024000	20	FT
NC	Manchester	24K TOPO MAP	LIMITED UPDATE (DIGITAL REVISION)	1997	350730N 0785230W	00024000	10	FT



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NC	Newton Grove North	24K TOPO MAP	LIMITED UPDATE (DIGITAL REVISION)	1997	351500N 0781500W	00024000	5	FT
NC	Rocky Mount	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1998	355230N 0774500W	00024000	10	FT
NC	Selma	24K TOPO MAP	MINOR REVISION REPRINT	1998	353000N 0781500W	00024000	10	FT
NC	Slocumb	24K TOPO MAP	LIMITED UPDATE (DIGITAL REVISION)	1997	350730N 0784500W	00024000	10	FT
NC	Stedman	24K TOPO MAP	LIMITED UPDATE (DIGITAL REVISION)	1997	350000N 0783730W	00024000	5	FT
NC	Timothy	24K TOPO MAP	LIMITED UPDATE (DIGITAL REVISION)	1997	350730N 0782230W	00024000	5	FT
NC	Vander	24K TOPO MAP	LIMITED UPDATE (DIGITAL REVISION)	1997	350000N 0784500W	00024000	10	FT
NC	Walnut Cove	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1996	361500N 0800730W	00024000	20	FT
NC	Zebulon	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1999	354500N 0781500W	00024000	10	FT
ND	Coburn	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	463000N 0971500W	00024000	5	FT
ND	De Lamere	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	461500N 0971500W	00024000	5	FT
ND	Hankinson	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	460000N 0965230W	00024000	10	FT
ND	Mantador	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	460730N 0965230W	00024000	5	FT
ND	Mc Leod	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	462230N 0971500W	00024000	5	FT
ND	Milnor	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	461500N 0972230W	00024000	5	FT
ND	Power	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	463000N 0970730W	00024000	5	FT
ND	Sheldon	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	463000N 0972230W	00024000	5	FT
ND	Venlo	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	462230N 0972230W	00024000	5	FT
ND	Wyndmere	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	461500N 0970730W	00024000	5	FT
ND	Wyndmere NW	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	462230N 0970730W	00024000	5	FT
NH	Bartlett	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1995	440000N 0711500W	00024000	40	FT
NH	Bethlehem	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1995	441500N 0713730W	00024000	6	MR
NH	Blue Mountain	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	444500N 0712230W	00024000	20	FT
NH	Center Sandwich	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1995	434500N 0712230W	00024000	20	FT



NH	Diamond Pond	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	445230N 0711500W	00024000	20	FT
NH	Dixville Notch	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	444500N 0711500W	00024000	20	FT
NH	Dummer Ponds	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	443730N 0711500W	00024000	20	FT
NH	East Haverhill	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1995	440000N 0715230W	00024000	20	FT
NH	Hillsboro Upper Village	24K TOPO MAP, PROVISIONAL	MINOR REVISION REPRINT	1998	430730N 0715230W	00024000	20	FT
NH VT	Lovering Mountain	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	445230N 0712230W	00024000	20	FT
NH	Magalloway Mtn	24K TOPO MAP, PROVISIONAL	MINOR REVISION REPRINT	1997	450000N 0710730W	00024000	20	FT
NH	Mount Crescent	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1995	442230N 0711500W	00024000	6	MR
NH	Mount Washington	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1995	441500N 0711500W	00024000	6	MR
NH	Percy Peaks	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	443730N 0712230W	00024000	20	FT
NH PQ	Second Connecticut Lake	24K TOPO MAP, PROVISIONAL	MINOR REVISION REPRINT	1997	450730N 0710730W	00024000	20	FT
NH	Waterville Valley	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1995	435230N 0713000W	00024000	40	FT
NH	West Milan	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1995	443000N 0711500W	00024000	20	FT
NJ PA	Beverly	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1995	400000N 0745230W	00024000	20	FT
NJ	Boonton	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1995	405230N 0742230W	00024000	20	FT
NJ	Chatham	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1995	403730N 0742230W	00024000	20	FT
NJ	Dover	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1997	405230N 0743000W	00024000	20	FT
NJ	Indian Mills	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1995	394500N 0743730W	00024000	10	FT
NJ NY	Keyport	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1995	402230N 0740730W	00024000	20	FT
NJ	New Brunswick	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1995	402230N 0742230W	00024000	10	FT
NJ	Orange	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1995	404500N 0740730W	00024000	20	FT
NJ	Princeton	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1995	401500N 0743730W	00024000	20	FT
NJ	Rocky Hill	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1995	402230N 0743730W	00024000	20	FT
NJ	Runnemede	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1999	394500N 0750000W	00024000	10	FT



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NJ NY	South Amboy	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1995	402230N 0741500W	00024000	10	FT
NJ	Stanhope	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1995	405230N 0743730W	00024000	20	FT
NJ PA	Trenton East	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1995	400730N 0743730W	00024000	10	FT
NJ	Wanaque	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1995	410000N 0741500W	00024000	20	FT
NM	Carrizozo	BLM SURFACE MANAGEMENT STATUS MAP	LIMITED UPDATE (ANALOG REVISION)	2000	333000N 1050000W	00100000	50	MR
NM AZ	Harden Cienega	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	330730N 1090000W	00024000	40	FT
NM AZ	Tillie Hall Peak	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	325230N 1090000W	00024000	40	FT
NV AZ UT	Clover Mountains	BLM SURFACE MANAGEMENT STATUS MAP	TOPOGRAPHIC EDITIONS	2000	370000N 1140000W	00100000	50	MR
NV	Pahute Mesa	BLM SURFACE MANAGEMENT STATUS MAP	TOPOGRAPHIC EDITIONS	2000	370000N 1160000W	00100000	50	MR
NV	Simpson Park Mountains	BLM SURFACE MANAGEMENT STATUS MAP	TOPOGRAPHIC EDITIONS	2000	393000N 1160000W	00100000	50	MR
NY MA VT	Berlin	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	423730N 0731500W	00024000	10	FT
NY	Canada Lake	24K TOPO MAP	MINOR REVISION REPRINT	1997	430730N 0743000W	00024000	20	FT
NY CT	Dover Plains	24K TOPO MAP	MINOR REVISION REPRINT	1998	413730N 0733000W	00024000	10	FT
NY VT	Hoosick Falls	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1995	425230N 0731500W	00024000	20	FT
NY	Hunter	24K TOPO MAP	MINOR REVISION REPRINT	1997	420730N 0740730W	00024000	20	FT
NY	Lewis	25K TOPO MAP (7.5 X 15)	MINOR REVISION REPRINT	1999	441500N 0733000W	00025000	10	MR
NY CT	Mount Kisco	24K TOPO MAP	MINOR REVISION REPRINT	1998	410730N 0733730W	00024000	10	FT
NY VT	Salem	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1995	430730N 0731500W	00024000	20	FT
NY	West Shokan	24K TOPO MAP	MINOR REVISION REPRINT	1997	415230N 0741500W	00024000	20	FT
NY VT	Willsboro	25K TOPO MAP (7.5 X 15)	STANDARD UPDATE (ANALOG REVISION)	1999	441500N 0731500W	00025000	5	MR
OH	Avon	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1994	412230N 0820000W	00024000	5	FT
OH	Berea	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1994	411500N 0814500W	00024000	10	FT
OH	Burton	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1994	412230N 0810730W	00024000	10	FT



OH	Canton West	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1994	404500N 0812230W	00024000	10	FT
OH	Chagrin Falls	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1994	412230N 0812230W	00024000	10	FT
OH	Lakewood	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1994	412230N 0814500W	00024000	10	FT
OH	Mentor	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1994	413730N 0811500W	00024000	10	FT
OH	North Olmsted	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1994	412230N 0815230W	00024000	10	FT
OH	Twinsburg	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1994	411500N 0812230W	00024000	10	FT
OK	Herring	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	353000N 0993000W	00024000	10	FT
OK	Mackie	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	353730N 0994500W	00024000	10	FT
OK	Reydon	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	353730N 0995230W	00024000	10	FT
OK	Roll	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	354500N 0993730W	00024000	20	FT
OK	Roll SE	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	354500N 0993000W	00024000	20	FT
OK	Strong City	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	353730N 0993000W	00024000	10	FT
OR	Agency Lake	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	423000N 1215230W	00024000	20	FT
OR	Applegate Butte	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	423730N 1213730W	00024000	20	FT
OR	Beatty	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	422230N 1211500W	00024000	10	FT
OR	Buckhorn Springs	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	424500N 1213000W	00024000	20	FT
OR	Burns	BLM SURFACE MANAGEMENT STATUS MAP	TOPOGRAPHIC EDITIONS	2000	433000N 1190000W	00100000	20	MR
OR	Burns	BLM SURFACE MINERALS MANAGEMENT STATUS MAP	TOPOGRAPHIC EDITIONS	2000	433000N 1190000W	00100000	20	MR
OR	Butler Butte	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	425230N 1223730W	00024000	40	FT
OR	Buttes of The Gods	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	423000N 1213000W	00024000	20	FT
OR	Calimus Butte	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	423730N 1213000W	00024000	20	FT
OR	Chiloquin	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	423000N 1214500W	00024000	20	FT
OR	Cooks Mountain	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	423000N 1212230W	00024000	20	FT



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OR	Fort Klamath	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	423730N 1215230W	00024000	20	FT
OR	Fuego	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	424500N 1214500W	00024000	20	FT
OR	Fuego Mountain	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	423730N 1212230W	00024000	20	FT
OR	Gordon Lake	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	425230N 1212230W	00024000	40	FT
OR	Military Crossing	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	425230N 1213730W	00024000	20	FT
OR	Modoc Point	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	422230N 1214500W	00024000	20	FT
OR CA	Mount Ashland	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	420000N 1223730W	00024000	40	FT
OR	Pickett Butte	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	425230N 1224500W	00024000	40	FT
OR	Potter Mountain	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	431500N 1221500W	00024000	40	FT
OR	Pumice Desert West	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	430000N 1220730W	00024000	20	FT
OR	Ragsdale Butte	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	424500N 1224500W	00024000	40	FT
OR	Reynolds Ridge	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	432230N 1223000W	00024000	40	FT
OR	Riverbed Butte Spring	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	423730N 1210730W	00024000	20	FT
OR CA	Siskiyou Peak	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	420000N 1224500W	00024000	40	FT
OR	Soloman Butte	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	423730N 1214500W	00024000	20	FT
OR	Spodue Mountain	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	423000N 1211500W	00024000	20	FT
OR	Sprague River East	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	422230N 1212230W	00024000	20	FT
OR	Sun Pass	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	424500N 1215230W	00024000	20	FT
OR	Swan Lake Point	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	422230N 1213730W	00024000	20	FT
OR	The Bull Pasture	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	424500N 1212230W	00024000	20	FT
OR	Wocus Bay	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	424500N 1213730W	00024000	20	FT
OR	Yainax Butte	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	421500N 1211500W	00024000	20	FT
OR	Yonna	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	421500N 1212230W	00024000	20	FT
PA	Buck Hill Falls	24K TOPO MAP	MINOR REVISION REPRINT	1997	410730N 0751500W	00024000	5	FT



PA	Columbia East	24K TOPO MAP	MINOR REVISION REPRINT	1997	400000N 0762230W	00024000	20	FT
PA	Grantville	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1999	402230N 0763730W	00024000	20	FT
PA	Hawley	24K TOPO MAP	MINOR REVISION REPRINT	1997	412230N 0750730W	00024000	20	FT
PA WV	Lake Lynn	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1997	393730N 0794500W	00024000	20	FT
PA	New Kensington East	24K TOPO MAP	MINOR REVISION REPRINT	1998	403000N 0793730W	00024000	20	FT
PA NY	Shohola	24K TOPO MAP	MINOR REVISION REPRINT	1997	412230N 0745230W	00024000	20	FT
PA	Smithton	24K TOPO MAP	MINOR REVISION REPRINT	1997	400730N 0793730W	00024000	20	FT
PA	Waymart	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1999	413000N 0752230W	00024000	20	FT
PA	Pennsylvania	500K STATE BASE (SHADED RELIEF)	NEW MAPPING		394310N 0744123W	00500000		
PA	Pennsylvania	500K STATE BASE (SHADED RELIEF)	NEW MAPPING		394310N 0744123W	00500000		
SD NE	Hot Springs	BLM SURFACE MANAGEMENT STATUS MAP	TOPOGRAPHIC EDITIONS	1999	430000N 1030000W	00100000	20	MR
SD NE	Hot Springs	BLM SURFACE MINERALS MANAGEMENT STATUS MAP	TOPOGRAPHIC EDITIONS	1999	430000N 1030000W	00100000	20	MR
TX NM	El Paso	BLM SURFACE MANAGEMENT STATUS MAP	TOPOGRAPHIC EDITIONS	1999	313000N 1060000W	00100000	20	MR
TX	Lake Marvin	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	355230N 1000730W	00024000	20	FT
UT	Aspen Grove	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	402230N 1113000W	00024000	40	FT
UT	Big Dutch Hollow	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	404500N 1113000W	00024000	40	FT
UT	Bountiful Peak	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	405230N 1114500W	00024000	40	FT
UT	Bridal Veil Falls	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	401500N 1113000W	00024000	40	FT
UT	Browns Hole	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	411500N 1113730W	00024000	40	FT
UT	Bybee Knoll	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	410730N 1113000W	00024000	40	FT
UT	Causey Dam	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	411500N 1113000W	00024000	40	FT
UT	Center Creek	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	402230N 1111500W	00024000	40	FT
UT	Charleston	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	402230N 1112230W	00024000	40	FT



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UT	Durst Mountain	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	410730N 1113730W	00024000	40	FT
UT	Francis Canyon	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	410730N 1111500W	00024000	40	FT
UT	Granger Mountain	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	400730N 1112230W	00024000	40	FT
UT	Horse Ridge	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	411500N 1112230W	00024000	40	FT
UT	Lehi	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	402230N 1114500W	00024000	20	FT
UT	Lost Creek Dam	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	410730N 1112230W	00024000	40	FT
UT	Mount Aire	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	403730N 1113730W	00024000	40	FT
UT	Mount Powell	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	404500N 1102230W	00024000	40	FT
UT	Orem	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	401500N 1113730W	00024000	40	FT
UT	Peck Canyon	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	411500N 1111500W	00024000	40	FT
UT	Peterson	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	410000N 1114500W	00024000	40	FT
UT	Porterville	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	405230N 1113730W	00024000	40	FT
UT	Provo	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	400730N 1113730W	00024000	10	FT
UT	Springville	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	400730N 1113000W	00024000	40	FT
UT	Timpanogos Cave	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	402230N 1113730W	00024000	40	FT
UT	Twin Peaks	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	401500N 1111500W	00024000	40	FT
UT	Two Tom Hill	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	400730N 1111500W	00024000	40	FT
UT	Wallsburg Ridge	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1998	401500N 1112230W	00024000	40	FT
VA	Bent Mountain	24K TOPO MAP	MINOR REVISION REPRINT	1996	370730N 0800000W	00024000	20	FT
VA	Stanley	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1997	383000N 0783000W	00024000	20	FT
VT	Arlington	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	430000N 0730730W	00024000	20	FT
VT	Bennington	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	425230N 0730730W	00024000	20	FT
VT	Brandon	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	434500N 0730000W	00024000	20	FT
VT	Bristol	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	440730N 0730000W	00024000	20	FT



VT	Chittenden	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1999	433730N 0725230W	00024000	20	FT
VT	Danby	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	431500N 0725230W	00024000	6	MR
VT	East Middlebury	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	435230N 0730000W	00024000	20	FT
VT	Hancock	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	435230N 0724500W	00024000	20	FT
VT	Jamaica	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	430000N 0724500W	00024000	6	MR
VT	Manchester	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	430730N 0730000W	00024000	20	FT
VT	Mount Ellen	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1999	440730N 0725230W	00024000	20	FT
VT	Mount Holly	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	432230N 0724500W	00024000	6	MR
VT NY	North Pownal	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1995	424500N 0731500W	00024000	20	FT
VT	Pawlet	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1995	431500N 0730730W	00024000	20	FT
VT	Peru	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	430730N 0725230W	00024000	6	MR
VT	Pownal	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	424500N 0730730W	00024000	20	FT
VT	Quechee	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	433730N 0722230W	00024000	20	FT
VT	Readsboro	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	424500N 0725230W	00024000	6	MR
VT	South Mountain	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	440000N 0730000W	00024000	20	FT
VT	Stamford	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	424500N 0730000W	00024000	20	FT
VT	Stratton Mountain	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	430000N 0725230W	00024000	6	MR
VT	Waitsfield	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	440730N 0724500W	00024000	20	FT
VT	Wallingford	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	432230N 0725230W	00024000	6	MR
VT	Warren	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	440000N 0724500W	00024000	20	FT
VT	West Dover	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	425230N 0724500W	00024000	6	MR
VT NY	West Pawlet	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1995	431500N 0731500W	00024000	20	FT
VT	Weston	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	431500N 0724500W	00024000	6	MR
VT NY	Westport	25K TOPO MAP (7.5 X 15)	MINOR REVISION REPRINT	1999	440730N 0731500W	00025000	5	MR



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VT	Woodford	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	425230N 0730000W	00024000	20	FT
VT	Woodstock North	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1997	433730N 0723000W	00024000	20	FT
WA ID	Bead Lake	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	481500N 1170000W	00024000	40	FT
WA	North Baldy	24K TOPO MAP	LIMITED UPDATE (ANALOG REVISION)	1996	483000N 1170730W	00024000	40	FT
WV PA	Bruceton Mills	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1997	393730N 0793730W	00024000	20	FT
WV	Masontown	24K TOPO MAP	STANDARD UPDATE (ANALOG REVISION)	1997	393000N 0794500W	00024000	20	FT
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