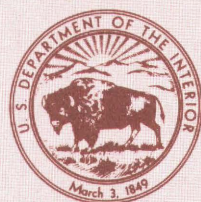


**Selected Bibliography and Index
of Earth Science Reports and Maps
Relating to Land-Resource Planning
and Management Published
by the U.S. Geological Survey
Through October 1976**

GEOLOGICAL SURVEY BULLETIN 1442



Selected Bibliography and Index of Earth Science Reports and Maps Relating to Land-Resource Planning and Management Published by the U.S. Geological Survey Through October 1976

Compiled by MARGARET F. EISTER

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**SELECTED BIBLIOGRAPHY AND INDEX
OF
EARTH SCIENCE REPORTS AND MAPS
RELATING TO LAND-RESOURCE PLANNING
AND MANAGEMENT
PUBLISHED BY THE U.S. GEOLOGICAL SURVEY
THROUGH OCTOBER 1976**

Compiled by MARGARET F. EISTER

INTRODUCTION

This bibliography lists selected reports and maps relating to land-resource planning and management published by the U.S. Geological Survey through October 1976. It was prepared for two principal purposes: (1) to make potential users aware of the range, scope, and availability of Survey products relating to resource planning and management; and (2) to provide a selected reference list of Survey products prepared for, or directly useful to, land-use planners and decisionmakers. Criteria for selection of reports for citation in the bibliography were arbitrary: all reports or maps that were prepared specifically to support planning and decision-making are listed; but products prepared for other purposes are listed only if they were judged to be directly useful to, and especially pertinent to, planners, managers, or private citizens concerned with land-resource problems.

AVAILABILITY OF PUBLICATIONS AND OTHER INFORMATION

The availability and price of reports and maps cited in this bibliography are given in the books and pamphlets below:

1. "Publications of the Geological Survey, 1879-1961."
2. "Publications of the Geological Survey, 1962-1970."

3. A pamphlet titled "Publications of the Geological Survey," which is published annually.
4. A leaflet titled "New Publications of the Geological Survey," which is published monthly.
5. A circular titled "Reports and maps of the Geological Survey released only in the open files," which was published annually through 1973 and for early 1974. (Since May 1974 open-file reports and maps have been listed in the monthly "New Publications of the Geological Survey.")

These lists must be consulted to obtain information necessary to order a report. Copies of these lists are available free upon request addressed to the U.S. Geological Survey, Reston, Virginia 22092.

A more complete and detailed guide to Survey publications and information services is given in "United States Geological Survey Annual Report, Fiscal Year 1977," for sale by Public Inquiries Offices listed in the following section.

PUBLIC INQUIRIES OFFICES

The Geological Survey operates nine Public Inquiries Offices for obtaining information about Survey products. Each office (except those in Reston, Va. and Washington, D.C.) maintains a reference library of Survey publications and serves as a depository for selected Open-File Reports. Each office, acting as a sales agent for the Superintendent of Documents, sells topographic, geologic, and hydrologic maps relating to its geographic area, and book reports and maps of general interest. Public Inquiries Offices are located in the following States:

Alaska:

Public Inquiries Office	(907) 277-055
U.S. Geological Survey	Hours: 9:00-4:30
108 Skyline Bldg.	
508 Second Avenue	
Anchorage, AK 99501	

California:

Public Inquiries Office	(213) 688-2850
U.S. Geological Survey	Hours: 9:00-4:30
7638 Federal Bldg.	
300 North Los Angeles Street	
Los Angeles, CA 90012	

Public Inquiries Office (415) 556-5627
 U.S. Geological Survey Hours: 8:30-4:00
 504 Customhouse
 555 Battery Street
 San Francisco, CA 94111

Colorado:

Public Inquiries Office (303) 837-4169
 U.S. Geological Survey Hours: 8:30-4:00
 169 Federal Bldg.
 1961 Stout Street
 Denver, CO 80294

District of Columbia:

Public Inquiries Office (202) 343-8073
 U.S. Geological Survey Hours: 8:15-3:45
 1028 GSA Bldg.
 19th and F Streets NW
 Washington, DC 20244

Texas:

Public Inquiries Office (214) 749-3230
 U.S. Geological Survey Hours: 9:00-4:30
 1C45 Federal Bldg.
 1100 Commerce Street
 Dallas, TX 75242

Utah:

Public Inquiries Office (801) 524-5652
 U.S. Geological Survey Hours: 9:00-4:30
 8105 Federal Bldg.
 125 South State Street
 Salt Lake City, UT 84138

Virginia:

Public Inquiries Office (703) 860-6167
 U.S. Geological Survey Hours: 8:15-3:45
 1C402 National Center, Stop 302
 12201 Sunrise Valley Drive
 Reston, VA 22092

Washington:

Public Inquiries Office (509) 456-2524
 U.S. Geological Survey Hours: 9:00-4:30
 678 U.S. Courthouse
 West 920 Riverside Avenue
 Spokane, WA 99201

LIBRARY SERVICES

The Geological Survey Library is one of the largest earth-science libraries in the world. The main library is in Reston, Va.; three branch libraries are located in Denver, Colo.; Menlo Park, Calif.; and Flagstaff, Ariz.

All libraries are open to the public. Librarians wishing to borrow books, periodicals, and maps for the use of their patrons are requested to use the approved American Library Association interlibrary loan form.

Geological Survey libraries are located as follows:

Library	(703) 860-6671
U.S. Geological Survey	Hours: 7:45-4:15
National Center, Stop 950	
Reston, VA 22092	

Library	(303) 234-4133
1526 Cole Blvd. at	Hours: 8:00-4:30
West Colfax Ave.	
Golden, CO	

Mail address
Box 25046, Stop 914
Denver Federal Center (Bldg. 25)
Denver, CO 80225

Library	(415) 323-8111, ext. 2208
U.S. Geological Survey	Hours: 8:00-4:30
345 Middlefield Road	
Menlo Park, CA 94025	

Library	(602) 774-1330
U.S. Geological Survey	Hours: 8:00-4:30
601 East Cedar Avenue	
Flagstaff, AZ 86001	

Libraries are closed on Saturdays, Sundays, and Federal holidays.

DEPOSITORY LIBRARIES

Many libraries throughout the United States are depository libraries of the Superintendent of Documents and maintain collections of Geological Survey publications and maps for reference by the general public. The libraries are listed on State lists of "Geologic and water-supply reports and maps" and on the "State topographic map indexes," available free upon request to Public Inquiries or Branch of Distribution Offices.

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 Vegetation, map: Keith, J. R.

Boulder County

Tungsten quadrangle

- Dwelling unit density: Covington, H. R., 6.
 Rock fractures, veins: Gable, D. J., 1.
 Water wells, springs: Gable, D. J., 2.

Costilla County

- Ft. Garland-San Luis area, landslide deposits, faulting: Colton, R. B., 15.

Denver area

- Surficial geologic map: Chase, G. H.

Douglas County

Parker quadrangle

- Areas of past flooding: Maberry, J. O., 2.
 Construction materials: Maberry, J. O., 12.
 Deposits susceptible to compaction, subsidence: Maberry, J. O., 10.
 Geologic map: Maberry, J. O., 1.
 Geologic materials, erodibility: Maberry, J. O., 7.
 Geologic materials, excavatability: Maberry, J. O., 8.
 Geologic materials, permeability: Maberry, J. O., 9.
 Ground-water conditions: Maberry, J. O., 11.
 Landslides, potential: Maberry, J. O., 5.
 Scenic features: Maberry, J. O., 13.

COLORADO—Continued

Douglas County—Continued

Parker quadrangle—Continued

- Slope: Maberry, J. O., 6.
 Swelling pressure potential, geologic materials: Maberry, J. O., 4.
 Transportation routes: Maberry, J. O., 3.

Vegetation map: Keith, J. R.

Front Range Urban Corridor

- Bibliography of geology and hydrology: Chronic, Felicie.

Boulder-Fort Collins-Greeley area

- Availability of hydrologic data: Hampton, E. R., 1.
 Flood-prone areas: McCain, J. F.
 Lakes: Ficke, J. P.
 Natural, historic landmarks: Petrie, B. N., 1.

Colorado Springs-Castle Rock area

- Availability of hydrologic data: Anna, L. O.
 Flood-prone areas: McCain, J. F., 2.
 Land-use classification maps: Driscoll, L. B.

Gravel resources, future land use: Soule, J. M.

Greater Denver area

- Availability of hydrologic data: Hampton, E. R., 2.
 Flood-prone areas: McCain, J. F., 3.
 Historic trail map: Scott, G. R., 10.
 Lakes: Danielson, T. W.
 Land-use classification: Driscoll, L. B., 2.
 Natural, historic landmarks: Petrie, B. N., 2.

Gilpin County

Tungsten quadrangle

- Dwelling unit density: Covington, H. R., 6.
 Rock fractures, veins: Gable, D. J., 1.
 Water wells, springs: Gable, D. J., 2.

Jefferson County

Conifer quadrangle, relative amounts, soil-bedrock: Schmidt, P. W., 3.

Evergreen quadrangle

- Approximate density of houses: Bryant, Bruce, 9.
 Faults, surficial deposits: Reed, J. C., Jr., 2.
 Geologic map: Sheridan, D. M.
 Slope: Schmidt, P. W., 1.
 Thermal lineaments map: Offield, T. W.
 Vegetation, map: Reed, J. C., Jr., 1.
 Water wells: Schmidt, P. W., 2.

Golden quadrangle

- Earth materials liable to compaction, settlement: Simpson, H. E., 3.
 Engineering geologic map: Gardner, M. E.
 Geologic map: Van Horn, Richard, 1.
 Geology: Van Horn, Richard, 10.

COLORADO—Continued

Jefferson County—Continued

Golden quadrangle—Continued

- Landslides: Simpson, H. E., 1.
 Man-modified land, man-made deposits: Simpson, H. E., 4.
 Potential rockfalls: Simpson, H. E., 2.
 Indian Hills quadrangle, relative amounts, soil-bedrock: Schmidt, P. W., 4.
 Morrison-Evergreen quadrangle, relative amounts soil-bedrock: Schmidt, P. W., 5.
 Morrison quadrangle
 Geologic map: Scott, G. R., 2.
 Geologic materials, permeability: Scott, G. R., 8.
 Landslides, landslide susceptibility: Scott, G. R., 3.
 Non-metallic minerals, source areas: Scott, G. R., 5.
 Points of geologic interest, Scott, G. R., 6.
 Swelling clay: Scott, G. R., 4.
 Watercourses, historic floods: Scott, G. R., 7.
 Northern, basic data atlas, computer-aided land-use-planning studies: Smedes, H. W.
 Tungsten quadrangle
 Dwelling unit density: Covington, H. R., 6.
 Rock fractures, veins: Gable, D. J., 1.
 Water wells, springs: Gable, D. J., 2.
 Landslide deposits, preliminary map: Colton, R. B., 16.
 Mineral resource management, surface mining, laws, governmental program: Imhoff, E. A., 1.
 Moffat County
 Vernal 1° by 2° quadrangle, landslide deposits, map: Carrara, P. E.
 North central
 Greeley 1° by 2° quadrangle, landslide deposits: Colton, R. B., 10.
 Leadville 1° by 2° quadrangle, landslide deposits, map: Colton, R. B., 9.
 Ouray County
 Telluride quadrangle, potential snow avalanche areas: Luedke, R. G.
 Pitkin County
 Aspen quadrangle
 Avalanche areas: Bryant, Bruce, 7.
 Ease of excavation: Bryant, Bruce, 3.
 Geologic map: Bryant, Bruce, 8.
 Ground-water potential: Bryant, Bruce, 2.
 Mines, prospects: Bryant, Bruce, 4.
 Permeability, rocks-surficial deposits: Bryant, Bruce, 6.
 Potential geologic hazards: Bryant, Bruce, 1.
 Slope map: Bryant, Bruce, 5.

COLORADO—Continued

Pueblo County

Pueblo, northern, general, engineering geology: Scott, G. R., 1.

Rio Blanco County

Vernal 1° by 2° quadrangle, landslide deposits: Carrara, P. E.

San Juan County

Telluride quadrangle, potential snow avalanches areas: Luedke, R. G.

San Miguel County

Telluride quadrangle, potential snow avalanche areas: Luedke, R. G.

South central

Montrose 1° by 2° quadrangle, Colo.: Colton, R. B., 12.

Pueblo 1° by 2° quadrangle, historic trail map: Scott, G. R., 9.

Pueblo 1° by 2° quadrangle, landslide deposits: Colton, R. B., 13.

Southeastern

La Junta 1° by 2° quadrangle, landslide deposits: Colton, R. B., 8.

Southern

Trinidad 1° by 2° quadrangle, landslide deposits: Colton, R. B., 14.

Southwestern

Moab 1° by 2° quadrangle, landslide deposits: Colton, R. B., 11.

Yuma County

Wray area, general, engineering geology: Hill, D. R.

CONNECTICUT

Connecticut River Valley

Clay deposits, land management problems: Langer, W. H., 1.

Hartford County

Avon quadrangle

Bedrock surface, contours: Handman, E. H., 3.

Depth to bedrock: Handman, E. H., 6.

Unconsolidated materials: Radway, J. R., 2.

Bristol quadrangle, geologic map: Simpson, H. E., 5.

Broad Brook quadrangle

Bedrock surface, contours: Ryder, R. B., 2.

Coarse aggregate: Langer, W. H., 9.

Depth to bedrock: Hyde, R. C.

Ground water, availability: Ryder, R. B., 6.

Material overlying clay unit, thickness: Langer, W. H., 8.

Principal clay unit, thickness: Langer, W. H., 7.

Unconsolidated materials: Langer, W. H., 6.

Collinsville quadrangle, bedrock surface, contours: Handman, E. H., 6.

Glastonbury quadrangle
 Bedrock surface, contour map: Ryder, R. B., 9.

CONNECTICUT—Continued

Hartford County—Continued

Glastonbury quadrangle—Continued

Drainage areas: Thomas, M. P., 8.

Natural land slope map: Radway, J. A., 1.

Principal clay unit, thickness: Langer, W. H., 17.

Unconsolidated materials: Langer, W. H., 18.

Hartford North quadrangle

Bedrock geologic map: Pessl, Fred, Jr., 3.

Bedrock surface, contours: Ryder, R. B., 4.

Coarse aggregate: Langer, W. H., 4.

Depth to bedrock: Handman, E. H., 4.

Depth to water table: Handman, E. H., 5.

Drainage areas: Thomas, M. P., 1.

Flood-prone areas: Thomas, M. P., 2.

Geologic, hydrologic maps, land-use planning: Pessl, Fred, Jr., 1.

Ground water, availability: Ryder, R. B., 5.

Landforms: Barker, R. M., 2.

Material overlying clay unit, thickness: Langer, W. H., 3.

Natural land slopes: Barker, R. M., 3.

Principal clay unit, thickness: Langer, W. H., 2.

Sanitary, water-related facilities: Office of State Planning, Connecticut.

Streams, low flow: Olin, D. A., 3.

Surface water, quality: Weiss, L. A., 1.

Unconsolidated materials: Pessl, Fred, Jr., 2.

Waste disposal: Weiss, L. A., 2.

Wells, test holes: Hildreth, C. T.

Hartford South quadrangle

Bedrock surface, contours: Ryder, R. B., 8.

Depth to bedrock map: Handman, E. H., 7.

Drainage areas: Thomas, M. P., 7.

Material overlying clay unit, thickness: Langer, W. H., 15.

Principal clay unit, thickness: Langer, W. H., 14.

Unconsolidated materials: Langer, W. H., 19.

Manchester quadrangle

Bedrock surface, contours: Ryder, R. B., 3.

Depth to bedrock: Handman, E. H., 2.

Ground water, availability: Ryder, R. B., 7.

Material overlying clay unit, thickness: Langer, W. H., 11.

Principal clay unit, thickness: Langer, W. H., 10.

CONNECTICUT—Continued

Hartford County—Continued

Marlborough quadrangle

Drainage area map: Thomas, M. P., 3.

Unconsolidated materials map: O'Leary, D. W., 6.

Meriden quadrangle, bedrock surface, contour map: Haeni, F. P., 5.

Moodus quadrangle

Coarse aggregate: O'Leary, D. W., 3.

Outcrop map: O'Leary, D. W., 1.

Unconsolidated materials: O'Leary, D. W., 2.

New Britain quadrangle

Bedrock surface, contour maps: Handman, E. H., 10.

Coarse aggregate: Langer, W. H., 16.

Unconsolidated materials: Langer, W. H., 5.

New Hartford quadrangle

Coarse aggregate: Schnabel, R. W., 2.

Unconsolidated materials: Schnabel, R. W., 1.

Southwick quadrangle, unconsolidated materials: Schnabel, R. W., 3.

Springfield South quadrangle

Coarse aggregate resources: Koteff, Carl, 2.

Unconsolidated materials: Koteff, Carl, 1.

Tariffville quadrangle

Bedrock surface, contour map: Handman, E. H., 8.

Coarse aggregate: Pessl, Fred, Jr., 5.

Unconsolidated materials: Pessl, Fred, Jr., 4.

West Springfield quadrangle, drainage areas map: Londquist, C. J., 7.

Windsor Locks quadrangle

Bedrock surface, contours: Ryder, R. B., 1.

Depth to bedrock: Handman, E. H., 1.

Drainage areas: Thomas, M. P., 9.

Material overlying clay unit, thickness: Langer, W. H., 12.

Principal clay unit, thickness: Langer, W. H., 13.

Unconsolidated materials: Stone, J. R.

Litchfield County

Bristol quadrangle, geologic map: Simpson, H. E., 5.

Collinsville quadrangle, bedrock surface, contours: Handman, E. H., 6.

New Hartford quadrangle

Coarse aggregate: Schnabel, R. W., 2.

Unconsolidated materials: Schnabel, R. W., 1.

Middlesex County

Clinton quadrangle, bedrock surface, contour map: Haeni, F. P., 1.

Deep River quadrangle

Coarse aggregate: O'Leary, D. W., 5.

Unconsolidated materials: O'Leary, D. W., 4.

CONNECTICUT—Continued

Middlesex County—Continued

- Durham quadrangle, contour map, bedrock surface: Bingham, J. W., 2.
- Essex quadrangle
Bedrock surface, contours: Naylor, R. G., 3.
Coarse aggregate: Naylor, R. G., 2.
Unconsolidated materials: Naylor, R. G., 1.
- Glastonbury quadrangle
Bedrock surface, contour map: Ryder, R. B., 9.
Natural land slope map: Radway, J. A., 1.
Unconsolidated materials: Langer, W. H., 18.
- Haddam quadrangle, drainage areas: Thomas, M. P., 5.
- Middle Haddam quadrangle
Bedrock geology: Eaton, G. P.
Drainage areas: Thomas, M. P., 4.
- Middletown quadrangle
Contour map, bedrock surface: Bingham, J. W., 1.
Drainage areas: Thomas, M. P., 6.
- Moodus quadrangle
Coarse aggregate: O'Leary, D. W., 3.
Outcrop map: O'Leary, D. W., 1.
Unconsolidated materials: O'Leary, D. W., 2.
- Old Lyme quadrangle
Bedrock surface, contour map: Meade, D. B., 1.
Depth to bedrock: Meade, D. B., 2.

New Haven County

- Branford quadrangle
Bedrock surface contours: Brown, C. E., 3.
Coarse aggregate resources: Brown, C. E., 2.
Depth to bedrock, map: Brown, C. E., 4.
Unconsolidated materials: Brown, C. E., 1.
- Bristol quadrangle, geologic map: Simpson, H. E., 5.
- Clinton quadrangle, bedrock surface, contour map: Haeni, F. P., 1.
- Guilford quadrangle
Bedrock surface, contour map: Haeni, F. P., 2.
Depth to bedrock: Ginsberg, M. H., 1.
- Meriden quadrangle, bedrock surface, contour map: Haeni, F. P., 5.
- Mount Carmel quadrangle
Bedrock surface, contour map: Haeni, F. P., 3.
Depth to bedrock: Handman, E. H., 11.
- New Haven, urban and regional change, land use: Simpson, R. B., 2.

CONNECTICUT—Continued

New Haven County—Continued

- New Haven-Woodmont quadrangles
Depth to bedrock: Ginsberg, M. H., 2.
Unconsolidated materials: Recny, C. J.
- Wallingford quadrangle, bedrock surface, contour map: Haeni, F. P.
- New London County
Deep River quadrangle
Coarse aggregate: O'Leary, D. W., 5.
Unconsolidated materials: O'Leary, D. W., 4.
- Essex quadrangle
Bedrock surface, contours: Naylor, R. G., 3.
Coarse aggregate: Naylor, R. G., 2.
Unconsolidated materials: Naylor, R. G., 1.
- Montville quadrangle, unconsolidated materials: Goldsmith, Richard, 1.
- Moodus quadrangle
Coarse aggregate: O'Leary, D. W., 3.
Outcrop map: O'Leary, D. W., 1.
Unconsolidated materials: O'Leary, D. W., 2.
- Niantic quadrangle, unconsolidated materials: Goldsmith, Richard, 2.
- Old Lyme quadrangle
Bedrock surface, contour map: Meade, D. B., 1.
Depth to bedrock: Meade, D. B., 2.
- Plainfield quadrangle, surficial geologic map: Stone, B. D.
- Willimantic quadrangle
Bedrock surface, contour map: Meade, D. B., 4.
Unconsolidated materials: Clebnik, S. M.
- Tolland County
Broad Brook quadrangle
Bedrock surface, contours: Ryder, R. B., 2.
Coarse aggregate: Langer, W. H., 9.
Depth to bedrock: Hyde, R. C.
Ground water, availability: Ryder, R. B., 6.
Material overlying clay unit, thickness: Langer, W. H., 8.
Principal clay unit, thickness: Langer, W. H., 7.
Unconsolidated materials: Langer, W. H., 6.
- Ellington quadrangle
Flood-prone areas: Olin, D. A., 2.
Materials map: Colton, R. B., 2.
Natural land slopes: Barker, R. M., 1.
Outcrop map: Colton, R. B., 1.
Streams, low flow: Olin, D. A., 1.
- Hampden quadrangle
Bedrock, depth: Londquist, C. J., 2.
Bedrock surface, contours: Londquist, C. J., 1.
Drainage areas: Londquist, C. J., 15.

CONNECTICUT—Continued

Tolland County—Continued

Manchester quadrangle

Bedrock surface, contours: Ryder, R. B., 3.

Depth to bedrock: Handman, E. H., 2.

Ground water, availability: Ryder, R. B., 7.

Marlborough quadrangle

Drainage area map: Thomas, M. P., 3.
Unconsolidated materials map:

O'Leary, D. W., 6.

Monson quadrangle, unconsolidated materials: Peper, J. D.

Moodus quadrangle

Coarse aggregate: O'Leary, D. W., 3.

Outcrop map: O'Leary, D. W., 1.

Unconsolidated materials: O'Leary, D. W., 2.

Spring Hill quadrangle, bedrock surface, contour map: Meade, D. B., 3.

Stafford Springs quadrangle, unconsolidated materials: Pease, M. H., Jr.

Willimantic quadrangle

Bedrock surface, contour map: Meade, D. B., 4.

Unconsolidated materials: Clebnik, S. M.

Windham County

Plainfield quadrangle, surficial geologic map: Stone, B. D.

Spring Hill quadrangle, bedrock surface, contour maps: Meade, D. B., 3.

Willimantic quadrangle

Bedrock surface, contour map: Meade, D. B., 4.

Unconsolidated materials: Clebnik, S. M.

DELAWARE

Kent County

Burrsville area, hydrology, engineering soils: Boggess, D. H., 13.

Clayton area, hydrology, engineering soils: Adams, J. K., 3.

Dover quadrangle, hydrology, engineering soils: Adams, J. K., 12.

Frederica area, hydrology, engineering soils: Davis, C. F., 4.

Harrington quadrangle, hydrology, engineering soils: Davis, C. F., 2.

Hickman area, hydrology, engineering soils: Adams, J. K., 5.

Kenton area, hydrology, engineering soils: Boggess, D. H., 14.

Little Creek quadrangle, hydrology, engineering soils: Boggess, D. H., 12.

Marydel area, hydrology, engineering soils: Davis, C. F., 1.

Mispillion River quadrangle, hydrology, engineering soils: Davis, C. F., 3.

Symrna area, hydrology, engineering soils: Boggess, D. H., 2.

Wyoming quadrangle, hydrology, engineering soils: Boggess, D. H., 15.

DELAWARE—Continued

New Castle County

Middletown area, hydrology, engineering soils: Boggess, D. H., 3.

Newark area, hydrology, engineering soils: Boggess, D. H., 1.

St. Georges area, hydrology, engineering soils: Adams, J. K., 1.

Wilmington area, hydrology, engineering soils: Adams, J. K., 2.

Sussex County

Bethany Beach, hydrology, engineering soils: Boggess, D. H., 9.

Ellendale area, hydrology, engineering soils: Adams, J. K., 6.

Frankford, hydrology, engineering soils: Adams, J. K., 10.

Georgetown quadrangle, hydrology, engineering soils: Boggess, D. H., 6.

Harbeson quadrangle, hydrology, engineering soils: Adams, J. K., 9.

Laurel area, hydrology, engineering soils: Boggess, D. H., 10.

Lewes area, hydrology, engineering soils: Adams, J. K., 7.

Milford quadrangle, hydrology, engineering soils: Boggess, D. H., 11.

Millsboro area, hydrology, engineering soils: Boggess, D. H., 8.

Milton area, hydrology, engineering soils: Boggess, D. H., 4.

Mispillion River quadrangle, hydrology, engineering soils: Davis, C. F., 3.

Rehoboth Beach area, hydrology, engineering soils: Boggess, D. H., 7.

Seaford East quadrangle, hydrology, engineering soils: Adams, J. K., 8.

Seaford West area, hydrology, engineering soils: Boggess, D. H., 5.

Sharptown area, hydrology, engineering soils: Adams, J. K., 4.

Trap Pond area, hydrology, engineering soils: Adams, J. K., 11.

DISTRICT OF COLUMBIA

Contours on base of saprolite, map: Froelich, A. J., 9.

Geologic map, preliminary, Froelich, A. J., 12.

Surface materials, map: Froelich, A. J., 10.

Thickness of overburden, map: Froelich, A. J., 11.

Potomac River estuary

Water quality: Durum, W. H.

Washington, D.C., Urban Area

Census tracts, 1970: U.S. Geological Survey, 13.

Land use, 1970: U.S. Geological Survey, 11.

Land use change, 1970-72: U.S. Geological Survey, 15.

Orthophoto map: U.S. Geological Survey, 12.

FLORIDA

- Collier County
Big Cypress Swamp, vegetation, map:
McPherson, B. F., 1.
- Dade County
Resource and land information: U.S.
Geological Survey, 6.
- Escambia County
Central and southern, ground water,
availability for public supply: Trapp,
Henry, Jr., 2.
- Lee County
Fort Myers, ground-water quality, effects
of landfill: Boggess, D. E., 16.
- Mineral resource management, surface min-
ing, laws, government programs: Imhoff,
E. A., 2.
- Santa Rosa County
Pensacola area, ground water, availabil-
ity for public supply: Trapp, Henry,
Jr., 1.
- South, environment: U.S. Geological Sur-
vey, 20.
- South, water and environment: Klein,
Howard.

HAWAII

- Oahu
Assessment of volcanic risk: Crandell,
D. R., 2.
- Pearl Harbor area, water supply, effect
of land use: Dale, R. H.

IDAHO

- Cassia County
Raft River Valley, land subsidence, tec-
tonism: Lofgren, B. E., 4.
- Fremont County
Henrys Lake quadrangle
Construction materials: Witkind, I. J.,
6.
- Earthquake hazard map: Witkind, I.
J., 5.
- Ease of excavation: Witkind, I. J., 7.
- Faults, ground-breakage hazards: Wit-
kind, I. J., 4.
- Geologic constraints, sanitary landfills:
Witkind, I. J., 8.
- Geologic map: Witkind, I. J., 1.
- Landslide hazards: Witkind, I. J., 3.
- Slope map: Witkind, I. J., 2.
- Snow avalanche probabilities: Witkind,
I. J., 9.

ILLINOIS

- Chicago metropolitan area
Flood-hazard mapping: Sheaffer, J. B.
- Chicago area
Salt Creek basin, water in urban plan-
ing: Spieker, A. M.

IOWA

- Linn County
Cedar Rapids, urban and regional change,
land use: Wray, J. R., 1.

KENTUCKY

- Fleming County
Burtonville quadrangle
Foundation, excavation conditions:
Dobrovolsky, Ernest, 1.
- Geologic map: Morris: R. H.
- Kentucky River area development district,
(KRADD) land use, land cover: U.S.
Geological Survey, 19.
- Lewis County
Burtonville quadrangle
Foundation, excavation conditions:
Dobrovolsky, Ernest, 1.
- Geologic map: Morris, R. H.
- McCracken County
Paducah East quadrangle, engineering
geology: Nichols, T. C., Jr.
- Paducah West and Metropolis quadran-
gles, engineering geology: Finch, W. I.
- Tradewater River basin
Water resources, effects of coal mining:
Grubb, H. F.

MARYLAND

- Baltimore County
Gunpowder Falls, water resource uses:
O'Bryan, Deric.
- Harford County
Gunpowder Falls, water resource uses:
O'Bryan, Deric.
- Howard County,
Base of saprolite, contour map: Roen,
J. B.
- Beltsville quadrangle, geologic map:
Withington, C. F.
- Montgomery County
Base of saprolite, contours: Froelich, A.
J., 6.
- Bedrock geologic map: Froelich, A. J., 2.
- Beltsville quadrangle, geologic map:
Withington, C. F.
- Conditions affecting sanitary landfill sit-
ing: Van Driel, J. N.
- Mineral resources map: Froelich, A. J.,
3.
- Overburden, thickness: Froelich, A. J.,
5.
- Rock Creek-Anacostia River basins, sedi-
ment, urban construction, Yorke, T. H.
- Soils, natural assemblages: Froelich, A.
J., 1.
- Surface materials, map: Froelich, A. J.,
4.
- Vienna quadrangle
Base of saprolite, contour map: Neu-
schel, S. K., 2.
- Landforms map: Rogers, H. G., 3.
- Thickness of overburden: Neuschel, S.
K., 3.
- Prince Georges County
Beltsville quadrangle, geologic map:
Withington, C. F.
- Construction conditions map: Hack, J.
T., 2.

MARYLAND—Continued

Prince Georges County—Continued

- Geologic map for land-use planning: Hack, J. T., 1.
- Mineral resources map: Hack, J. T., 3.
- Washington, D.C., Urban Area
- Census tracts, 1970: U.S. Geological Survey, 13.
- Land use, 1970: U.S. Geological Survey, 11.
- Land use change, 1970-72: U.S. Geological Survey, 15.
- Orthophoto map: U.S. Geological Survey, 12.

MASSACHUSETTS

Berkshire County

- Worthington quadrangle, depth to bedrock: Londquist, C. J., 20.

Connecticut River lowlands

- Ground water: Walker, E. H.

Franklin County

- Colrain quadrangle, depth to bedrock: Londquist, C. J., 10.
- Greenfield quadrangle, depth to bedrock: Londquist, C. J., 19.
- Mount Tom quadrangle, depth to bedrock: Londquist, C. J., 22.
- Northfield quadrangle, unconsolidated materials: Campbell, K. J.
- Shelburne Falls quadrangle, depth to bedrock: Londquist, C. J., 12.
- Williamsburg quadrangle, depth to bedrock: Londquist, C. J., 14.

Hampden County

- Chester quadrangle, depth to bedrock: Londquist, C. J., 18.

Hampden quadrangle

- Bedrock, depth: Londquist, C. J., 2.
- Bedrock surface, contours: Londquist, C. J., 1.
- Drainage areas: Londquist, C. J., 15.

Ludlow quadrangle

- Bedrock surface, contours: Londquist, C. J., 3.
- Depth to bedrock: Londquist, C. J., 11.
- Drainage area map: Londquist, C. J., 5.

- Unconsolidated materials: Leo, G. W.

Monson quadrangle, unconsolidated materials: Pepper, J. D.

Mount Tom quadrangle,

- Bedrock surface, contours: Londquist, C. J., 4.
- Drainage areas map: Londquist, C. J., 6.

Southwick quadrangle, unconsolidated materials: Schnabel, R. W., 3.

Springfield South quadrangle,

- Coarse aggregate resources: Koteff, Carl, 2.
- Unconsolidated materials: Koteff, Carl, 1.

MASSACHUSETTS—Continued

Hamden County—Continued

Tariffville quadrangle

- Coarse aggregate: Pessl, Fred, Jr., 5.
- Unconsolidated materials: Pessl, Fred, Jr., 4.

Warren quadrangle

- Bedrock surface, contour map: Londquist, C. J., 8.
- Coarse aggregate: Pomeroy, J. S., 2.
- Depth to bedrock: Londquist, C. J., 13.
- Drainage areas: Londquist, C. J., 16.
- Ground-water availability: Londquist, C. J., 9.
- Unconsolidated materials: Pomeroy, J. S., 1.

West Springfield quadrangle, drainage areas map: Londquist, C. J., 7.

Hampshire County

Chester quadrangle, depth to bedrock: Londquist, C. J., 18.

Ludlow quadrangle

- Bedrock surface, contours: Londquist, C. J., 3.
- Depth to bedrock: Londquist, C. J., 11.
- Drainage area map: Londquist, C. J., 5.
- Unconsolidated materials: Leo, G. W.

Mount Holyoke quadrangle

- Bedrock surface, contour map: Londquist, C. J., 17.
- Depth to bedrock: Londquist, C. J., 21.

Mount Tom quadrangle

- Bedrock surface, contours: Londquist, C. J., 4.
- Depth to bedrock: Londquist, C. J., 22.
- Drainage areas map: Londquist, C. J., 6.

Williamsburg quadrangle, depth to bedrock: Londquist, C. J., 14.

Worthington quadrangle, depth to bedrock: Londquist, C. J., 20.

Middlesex County

Pepperell quadrangle, surficial geologic map: Koteff, Carl, 4.

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Buzzards Bay coastal streams, ground-water management. Frimpter, M. H.

Suffolk County

- Boston Peninsula, ground-water levels: Cotton, J. E.
- Boston, urban and regional charge, land use: Simpson, R. B.

Worcester County

East Brookfield quadrangle, land surface, physical characteristics: Pomeroy, J. S., 15.

Warren quadrangle

- Bedrock surface, contour map: Londquist, C. J., 8.
- Coarse aggregate: Pomeroy, J. S., 2.

MASSACHUSETTS—Continued

Worcester County—Continued

Warren quadrangle—Continued

- Drainage areas: Londquist, C. J., 16.
- Depth to bedrock: Londquist, C. J., 13.
- Ground-water availability: Londquist, C. J., 9.
- Unconsolidated materials: Pomeroy, J. S., 1.

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Central southern peninsula

- Pere Marquette River, reconnaissance: Hendrickson, G. E., 3.

Clinton County

- Water-supply development, management: Vanlier, K. E.

Eaton County

- Water-supply development, management: Vanlier, K. E.

Ingham County

- Water-supply development, management: Vanlier, K. E.

North-central southern peninsula

- Au Sable River, reconnaissance: Hendrickson, G. E., 8.

- Black River, reconnaissance: Hendrickson, G. E., 2.

- Pigeon River, reconnaissance: Hendrickson, G. E., 1.

- Sturgeon River, reconnaissance: Hendrickson, G. E., 4.

Northeastern, southern peninsula

- Rifle River, reconnaissance: Hendrickson, G. E., 5.

Northwestern, southern peninsula

- Manistee River, reconnaissance: Hendrickson, G. E., 6.

Oakland County

- Pontiac, land use, land use change: Wray, J. R., 2.

- Water resources: Twenter, F. R.

St. Lawrence River basin

- Hydrology, recreation: Hendrickson, G. E., 7.

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Minneapolis-St. Paul metropolitan area

- Water resources outlook: Norvitch, R. F.

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Gallatin County

Henrys Lake quadrangle

- Construction materials: Witkind, I. J., 6.

- Earthquake hazard map: Witkind, I. J., 5.

- Ease of excavation: Witkind, I. J., 7.

- Faults, ground-breakage hazards: Witkind, I. J., 4.

- Geologic constraints, sanitary landfills: Witkind, I. J., 8.

- Geologic map: Witkind, I. J., 1.

- Landslide hazards: Witkind, I. J., 3.

- Slope map: Witkind, I. J., 2.

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Gallatin County—Continued

Henrys Lake quadrangle—Continued

- Snow avalanche probabilities: Witkind, I. J., 9.

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Henrys Lake quadrangle

- Construction materials: Witkind, I. J., 6.

- Earthquake hazard map: Witkind, I. J., 5.

- Ease of excavation: Witkind, I. J., 7.

- Geologic constraints, sanitary landfills: Witkind, I. J., 8.

- Geologic map: Witkind, I. J., 1.

- Faults, ground breakage hazards: Witkind, I. J., 4.

- Landslide hazards: Witkind, I. J., 3.

- Slope map: Witkind, I. J., 2.

- Snow avalanche probabilities: Witkind, I. J., 9.

Powder River Basin

- Energy resources: Keefer, W. R., 1.

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Dundy County

- Wray area, general, engineering geology: Hill, D. R.

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Cheshire County

- Northfield quadrangle, unconsolidated materials: Campbell, K. J.

Hillsborough County

- Nashua North, surficial geologic map: Koteff, Carl, 3.

- Pepperell quadrangle, surficial geologic map: Koteff, Carl, 4.

Rockingham County

- Nashua North, surficial geologic map: Koteff, Carl, 3.

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- Stroudsburg quadrangle, slate quarries, dumps: Epstein, J. B.

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Long Island

- Stream temperature, effect of urbanization: Pluhowski, E. J.

St. Lawrence River basin

- Hydrology, recreation: Hendrickson, G. E., 7.

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Piedmont Province

- Floods, effects of urban development: Putnam, A. L.

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- Portland, west-side business district, ground-dater utilization: Brown, S. G.

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Allegheny County

Aliquippa quadrangle, landslide susceptibility: Pomeroy, J. S., 8.

Ambridge quadrangle,

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Landslide susceptibility: Pomeroy, J. S., 3.

Baden quadrangle, landslide susceptibility: Pomeroy, J. S., 9.

Braddock quadrangle,

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Landslide susceptibility: Davies, W. E., 1.

Bridgeville quadrangle,

Landslide susceptibility: Davies, W. E., 2.

Land modified by man: Davies, W. E., 14.

Canonsburg quadrangle,

Land modified by man: Davies, W. E., 15.

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Coal-mining features: Davies, W. E., 26.

Curtisville quadrangle

Land modified by man: Davies, W. E., 16.

Landslide susceptibility: Davies, W. E., 4.

Depth to Pittsburgh coal bed, mining activity, surface subsidence: U.S. Geological Survey, 17.

Donora quadrangle,

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Landslide susceptibility: Davies, W. E., 5.

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Landslide susceptibility: Pomeroy, J. S., 4.

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Glenshaw quadrangle,

Land modified by man: Pomeroy, J. S., 10.

Landslide susceptibility: Pomeroy, J. S., 7.

Heavy precipitation, related mass movement: Subitzky, Seymour, 1.

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Allegheny County—Continued

Hydrogeologic framework, shallow ground-water circulation system: Subitzky, Seymour, 2.

Hydrogeologic regime related to environmental characteristics: Subitzky, Seymour, 5.

Landslides, effect of overdip slopes: Briggs, R. P., 1.

Landsliding: Briggs, R. P., 2.

Mars quadrangle

Land modified by man: Pomeroy, J. S., 12.

Landslide susceptibility: Pomeroy, J. S., 5.

McKeesport quadrangle

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Land modified by man: Davies, W. E., 20.

McLaughlin Run, Painters Run basins, water quality as effected by land use: Subitzky, Seymour, 4.

Mining, related problems, shallow hydrogeologic regime: Subitzky, Seymour, 3.

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Landslide susceptibility: Davies, W. E., 11.

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Landslide susceptibility: Davies, W. E., 12.

Pittsburgh, Upper Freeport coal beds, subsidence due to mining: Bushnell, K. O., 1.

Rock types in bedrock: Kohl, W. R., 1.

Valencia quadrangle

Land modified by man: Pomeroy, J. S., 11.

Landslide susceptibility: Pomeroy, J. S., 6.

Susceptibility to landsliding, map: Davies, W. E., 25.

Zones where land use can be affected by landsliding, flooding, undermining: Briggs, R. P., 3.

Armstrong County

Area correlated with subsidence events: Bushnell, K. O., 2.

Overdip slopes that can affect landsliding: Kohl, W. R., 2.

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Beaver County

- Areas correlated with subsidence events: Bushnell, K. O., 2.

Butler County

- Areas correlated with subsidence events: Bushnell, K. O., 2.

Lycoming County, land use, land cover: Milazzo, V. A.

Southwestern

- Mined areas, potential coal mining: Kohl, W. R., 3.

Washington County

- Depth to Pittsburgh coal bed, mining activity, surface subsidence: U.S. Geological Survey, 17.

Washington County

- Pittsburgh, Upper Freeport coal beds, subsidence due to mining: Bushnell, K. O., 1.

Westmoreland County

- Depth to Pittsburgh coal bed, mining activity, surface subsidence: U.S. Geological Survey, 17.

- Pittsburgh, Upper Freeport coal beds, subsidence due to mining: Bushnell, K. O., 1.

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- Buzzards Bay, coastal streams, ground-water management: Frimpter, M. H.

SOUTH DAKOTA

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- Fort Randall Reservoir area, landslides: Erskine, C. F.

Gregory County

- Fort Randall Reservoir area, landslides: Erskine, C. F.

Meade County

- Rapid City NW. quadrangle, geologic map: McGregor, E. E.

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- Rapid City NW. quadrangle, geologic map: McGregor, E. E.

- Rapid City West quadrangle, geologic map: Cattermole, J. M.

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- Areas of possible flooding: Harris, L. D., 10.

- Areas with abundant sinkholes: Harris, L. D., 4.

- Basins drained by sinkholes: Harris, L. D., 5.

- Ground water, yield potential: McMaster, W. H.

- Land slopes, urbanization: Harris, L. D., 1.

- Mineral resources: Harris, L. D., 11.

- Overburden, engineering characteristics: Harris, L. D., 7.

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- Overburden, engineering characteristics, bedrock: Harris, L. D., 6.

- Sedimentary rocks, distribution: Harris, L. D., 2.

- Septic-tank filter fields, feasibility: Harris, L. D., 8.

- Soil association map: U.S. Geological Survey, 4.

- Soils, physical characteristics: Harris, L. D., 9.

- Structure, map: Harris, L. D., 3.

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- Memphis, environmental problems, related to geology; hydrology: Parks, W. S.

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Dallas County

- Dallas metropolitan area, floods, effects of urbanization: Dempster, G. R., Jr.

Galveston County

- Seabrook, land-surface subsidence:

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- Baytown area, land-surface subsidence: Gabrysch, R. K., 2.

- Houston metropolitan area, floods, effects of urbanization: Johnson, S. L.

Houston-Galveston region

- Land-surface subsidence: Gabrysch, R. K., 1.

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- Harbor Island area, environmental geology, map: Casby, S. M.

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- Woodside quadrangle, engineering geologic map: Osterwald, F. W.

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- Annual, monthly precipitation: Covington, H. R., 4.

- Bedrock types, surficial deposits: Williams, P. L., 2.

- Chemical quality, ground water: Price, Donald, 1.

- Coal beds, overburden: Hackman, R. J., 1.

- Drainage basins, cloudburst floods: Hackman, R. J., 3.

- Ease of excavation: Williams, P. L., 3.
- Freeze-free season, length: Covington, H. R., 2.

- Geologic map: Williams, P. L.

- Ground water, availability: Price, Donald, 2.

- Landslides, potential areas of slides: Williams, P. L., 4.

- Scenic features, recreation facilities: Williams, P. L., 5.

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- Springs: Covington, H. R., 5.
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- Topography, relief map: Covington, H. R., 1.
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- Woodslope quadrangle, engineering geologic map: Osterwald, F. W.

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- Construction materials: Van Horn, Richard, 7.
- Faults, relative age: Van Horn, Richard, 4.
- Flood, surface-water information: Van Horn, Richard, 9.
- Landslide deposits: Van Horn, Richard, 3.
- Principal aquifer, depth: Feb. 1972: Mower, R. W., 3.
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- Saturated Quaternary deposits, thickness: Mower, R. W., 1.
- Shallow aquifers, minimum depth: Mower, R. W., 2.
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- Thickness of loosely packed sediments, depth to bedrock: McGregor, E. E.
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- Colrain quadrangle, depth to bedrock: Londquist, C. J., 10.
- Northfield quadrangle, unconsolidated materials: Campbell, K. J.

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Alexandria City

- Cameron Run basin, flood-plain delineation: Soule, P. L., 2.

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- Accotink Creek basin, flood-plain delineation: Soule, P. L., 1.

Annandale quadrangle

- Basic of saprolite map: Froelich, A. J., 8.
- Bedrock map: Huffman, A. C., 1.
- Geologic map: Huffman, A. C., 2.
- Landform map: Rogers, H. G.
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- Thickness of overburden map: Froelich, A. J., 7.

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- Cameron Run basin, flood-plain delineation: Soule, P. L., 2.
- Coastal Plain, geologic map: Force, L. M., 1.
- Difficult Run basin, flood-plain delineation, Soule, P. L., 3.
- Fairfax quadrangle,
 - Base of saprolite map: Nelson, A. E., 1.
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- Franconia area
 - Geologic, engineering review: Obermeier, S. F., 1.
 - Ground water, preliminary appraisal: Johnson, R. H.
 - Landslides in Coastal Plain deposits: Obermeier, S. F., 2.
- Herndon quadrangle,
 - Geologic map: Eggleton, R. F.
 - Landforms map: Rogers, H. G., 2.
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- Mineral resources, availability, future needs: Froelich, A. J., 13.
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- Vienna quadrangle,
 - Base of saprolite, contour map: Neuschel, S. K., 2.
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- Floods, effects of urban development: Anderson, D. G.

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- Great Dismal Swamp, vegetative cover: Carter, Virginia
- Portsmouth-Norfolk area, earth materials map: Neuschel, S. K., 1.
- Washington, D.C., Urban Area
 - Census tracts, 1970: U.S. Geological Survey, 13.
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 - Orthophotomap U.S. Geological Survey, 12.

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- Hazards, future volcanic eruptions: Crandell, D. R., 3.
- King County
 - West-central, landslides, associated damage: Tubbs, D. W.
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 - Nonmetallic mineral resources: Rice, William
 - Relative compressibility, earth materials: Miller, R. D., 3.

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Relative slope stability: Miller, R. D., 2.

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Geologic conditions related to waste-disposal planning: Carson, R. J.

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Geologic conditions related to waste-disposal, planning: Carson, R. J.

Public recreation resources and facilities: Hutchinson, R. P.

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Water-quality degradation, susceptibility of lakes: Bortleson, G. C.

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Mount Rainier, future eruptions, hazards: Crandell, D. R., 1.

Puget Sound area, earthquake losses: U.S. Geological Survey, 16.

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Streams, lowflows, temperatures: Hidaka, F. T., 2.

Urbanized area served by sewers, septic tanks: Parker, G. G., Jr., 2.

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Mount St. Helens volcano, potential hazards, future eruptions: Crandell, D. R., 4.

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Hydrology, recreation: Hendrickson, G. E., 7.

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Coal resources: Denson, N. M., 1.

Ground-water occurrence: King, N. J.

Land, coal ownership: U.S. Geological Survey, 7.

Land, natural resource information, environmental effects surface mining, Keefer, W. R., 2.

Land use: Shown, L. M.

Wyodak-Anderson coal bed: Denson, N. M., 2.

Wyodak-Anderson coal, potential effects, surface mining: Hadley, R. F.

The Gap quadrangle, environmental values, aid to planning reclamation of surface-mined areas: Moore, D. W.

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Slope, steepness: Love, J. D., 5.

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