

DEPARTMENT OF THE INTERIOR  
UNITED STATES GEOLOGICAL SURVEY  
CHARLES D. WALCOTT, DIRECTOR

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# I N D E X

TO THE

## HYDROGRAPHIC PROGRESS REPORTS

OF THE

UNITED STATES GEOLOGICAL SURVEY

1888 to 1903

BY

JOHN C. HOYT AND B. D. WOOD



WASHINGTON  
GOVERNMENT PRINTING OFFICE  
1905

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## LETTER OF TRANSMITTAL.

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DEPARTMENT OF THE INTERIOR,  
UNITED STATES GEOLOGICAL SURVEY,  
*Washington, D. C., January 16, 1905.*

SIR: I transmit herewith the manuscript for an index to the hydrographic progress reports of the United States Geological Survey issued during 1888 to 1903, inclusive. This manuscript has been prepared by John C. Hoyt and B. D. Wood, and I request that it be published as a water-supply and irrigation paper.

Very respectfully,

F. H. NEWELL,  
*Chief Engineer.*

Hon. CHARLES D. WALCOTT,  
*Director United States Geological Survey.*

# INDEX TO THE HYDROGRAPHIC PROGRESS REPORTS OF THE UNITED STATES GEOLOGICAL SURVEY, 1888 TO 1903.

By JOHN C. HOYT and B. D. WOOD.

## INTRODUCTION.

A systematic study of the surface waters of the United States was started by the hydrographic branch of the United States Geological Survey in 1888. A large part of this work has consisted of the measurement of the volume of flow and of the study of conditions affecting it. For each calendar year there has been prepared a Report of Progress of Stream Measurements, embodying the data collected during that year, which has been published either as a part of the annual report of the Director, as a bulletin, or as a water-supply and irrigation paper, as shown by the following list:

- 1888. Tenth Annual Report, Part II.
- 1889. Eleventh Annual Report, Part II.
- 1890. Twelfth Annual Report, Part II.
- 1891. Thirteenth Annual Report, Part III.
- 1892. Fourteenth Annual Report, Part II.
- 1893. Bulletin No. 131.
- 1894. Bulletin No. 131, and Sixteenth Annual Report, Part II.
- 1895. Bulletin No. 140, and Seventeenth Annual Report, Part II.
- 1896. Water-Supply Paper No. 11; Eighteenth Annual Report, Part IV.
- 1897. Water-Supply Papers Nos. 15 and 16; Nineteenth Annual Report, Part IV.
- 1898. Water-Supply Papers Nos. 27 and 28; Twentieth Annual Report, Part IV.
- 1899. Water-Supply Papers Nos. 35 to 39, inclusive; Twenty-first Annual Report, Part IV.
- 1900. Water-Supply Papers Nos. 47 to 52, inclusive; Twenty-second Annual Report, Part IV.
- 1901. Water-Supply Papers Nos. 65, 66, and 75.
- 1902. Water-Supply Papers Nos. 82 to 85, inclusive.
- 1903. Water-Supply Papers Nos. 97 to 100, inclusive.

As the hydrographic work in most localities has continued during several years, the results of the investigations at any one point are scattered through a number of publications, and the only guide to these data has been the individual indexes. With the growing interest in the commercial development of the hydrographic resources of

the country the demand for these data collected by the Geological Survey has rapidly increased, and in order to aid those wishing to use them this index has been prepared. In its preparation each publication of the foregoing list was carefully reviewed, the data were classified, and entries were made under both names of rivers and names of places.

As the work of the hydrographic branch increased it became necessary to publish a special series of reports to contain the data collected, and the series of Water-Supply and Irrigation Papers was therefore begun. The papers of this series have been classified as follows:

- (I) Irrigation.
- (J) Water storage.
- (K) Pumping water.
- (L) Quality of water.
- (M) General hydrographic investigations.
- (N) Water powers.
- (O) Underground waters.
- (P) Hydrographic progress reports.

A certain number of these publications, as of all publications of the Geological Survey, are published for free distribution by the Survey, and a certain number are deposited with the Superintendent of Public Documents, Washington, D. C., from whom they may be purchased at a nominal price. Other copies are allotted to the various Congressmen for distribution. As the edition of most of the publications is limited, the supply is soon exhausted. Those who are interested, however, may be able to find copies on file in the public libraries of most of the large cities, or in the libraries of engineering societies.

PUBLICATIONS OF UNITED STATES GEOLOGICAL SURVEY RELATING TO HYDRO-  
GRAPHIC SUBJECTS.

To April 1, 1905.

SERIES I—IRRIGATION.

- WS 2. Irrigation near Phoenix, Ariz., by A. P. Davis. 1897. 98 pp., 31 pls. and maps.
- WS 5. Irrigation practice on the Great Plains, by E. B. Cowgill. 1897. 39 pp., 11 pls.
- WS 9. Irrigation near Greeley, Colo., by David Boyd. 1897. 90 pp., 21 pls.
- WS 10. Irrigation in Mesilla Valley, New Mexico, by F. C. Barker. 1898. 51 pp., 11 pls.
- WS 13. Irrigation systems in Texas, by W. F. Hutson. 1898. 68 pp., 10 pls.
- WS 17. Irrigation near Bakersfield, Cal., by C. E. Grunsky. 1898. 96 pp., 16 pls.
- WS 18. Irrigation near Fresno, Cal., by C. E. Grunsky. 1898. 94 pp., 14 pls.
- WS 19. Irrigation near Merced, Cal., by C. E. Grunsky. 1899. 59 pp., 11 pls.
- WS 23. Water-right problems of the Bighorn Mountains, by Elwood Mead. 1899. 62 pp., 7 pls.
- WS 32. Water resources of Puerto Rico, by H. M. Wilson. 1899. 48 pp., 17 pls. and maps.
- WS 43. Conveyance of water in irrigation canals, flumes, and pipes, by Samuel Fortier. 1901. 86 pp., 15 pls.
- WS 70. Geology and water resources of the Patrick and Goshen Hole quadrangles in eastern Wyoming and western Nebraska, by G. I. Adams. 1902. 50 pp., 11 pls.
- WS 71. Irrigation systems of Texas, by T. U. Taylor. 1902. 137 pp., 9 pls.
- WS 74. Water resources of the State of Colorado, by A. L. Fellows. 1902. 151 pp., 14 pls.
- WS 87. Irrigation in India (second edition), by H. M. Wilson. 1903. 238 pp., 27 pls.
- WS 93. Proceedings of first conference of engineers of the reclamation service, with accompanying papers, compiled by F. H. Newell, chief engineer. 1904. 361 pp.
- WS 117. The lignite of North Dakota and its relation to irrigation, by F. A. Wilder. 1905. 59 pp., 8 pls.

The following papers also relate especially to irrigation: Irrigation in India, by H. M. Wilson, in Twelfth Annual, Pt. II; two papers on irrigation engineering, by H. M. Wilson, in Thirteenth Annual, Pt. III.

SERIES J—WATER STORAGE.

- WS 33. Storage of water on Gila River, Arizona, by J. B. Lippincott. 1900. 98 pp., 33 pls.
- WS 40. The Austin dam, by T. U. Taylor. 1900. 51 pp., 16 pls.

- WS 45. Water storage on Cache Creek, California, by A. E. Chandler. 1901. 48 pp., 10 pls.
- WS 46. Physical characteristics of Kern River, California, by F. H. Olmsted, and Reconnaissance of Yuba River, California, by Marsden Manson. 1901. 57 pp., 8 pls.
- WS 58. Storage of water on Kings River, California, by J. B. Lippincott. 1902. 100 pp., 32 pls.
- WS 68. Water storage in the Truckee basin, California-Nevada, by L. H. Taylor. 1902. 90 pp., 8 pls.
- WS 73. Water storage on Salt River, Arizona, by A. P. Davis. 1902. 54 pp., 25 pls.
- WS 86. Storage reservoirs on Stony Creek, California, by Burt Cole. 1903. 62 pp., 16 pls.
- WS 89. Water resources of the Salinas Valley, California, by Homer Hamlin. 1904. 91 pp., 12 pls.
- WS 93. Proceedings of first conference of engineers of the reclamation service, with accompanying papers, compiled by F. H. Newell, chief engineer. 1904. 361 pp.
- WS 116. Water problems of Santa Barbara, California, by J. B. Lippincott. 1905. 99 pp., 8 pls.

The following paper also should be noted under this heading: Reservoirs for irrigation, by J. D. Schuyler, in Eighteenth Annual, Pt. IV.

#### SERIES K—PUMPING WATER.

- WS 1. Pumping water for irrigation, by H. M. Wilson. 1896. 57 pp., 9 pls.
- WS 8. Windmills for irrigation, by E. C. Murphy. 1897. 49 pp., 8 pls.
- WS 14. New tests of certain pumps and water lifts used in irrigation, by O. P. Hood. 1898. 91 pp., 1 pl.
- WS 20. Experiments with windmills, by T. O. Perry, 1899. 97 pp., 12 pls.
- WS 29. Wells and windmills in Nebraska, by E. H. Barbour. 1899. 85 pp., 27 pls.
- WS 41. The windmill; its efficiency and economic use, Pt. I, by E. C. Murphy. 1901. 72 pp., 14 pls.
- WS 42. The windmill; its efficiency and economic use, Pt. II (continuation of No. 41), by E. C. Murphy. 1901. 73-147 pp., 15-16 pls.
- WS 91. The natural features and economic development of the Sandusky, Maumee, Muskingum, and Miami drainage areas in Ohio, by B. H. Flynn and M. S. Flynn. 1904. 130 pp.
- WS 117. The lignite of North Dakota and its relation to irrigation, by F. A. Wilder. 1905. 59 pp., 8 pls.

#### SERIES L—QUALITY OF WATER.

- WS 3. Sewage irrigation, by G. W. Rafter. 1897. 100 pp., 4 pls.
- WS 22. Sewage irrigation, Pt. II, by G. W. Rafter. 1899. 100 pp., 7 pls.
- WS 72. Sewage pollution in the metropolitan area near New York City and its effect on inland water resources, by M. O. Leighton. 1902. 75 pp., 8 pls.
- WS 76. Observations on the flow of rivers in the vicinity of New York City, by H. A. Pressey. 1903. 108 pp., 13 pls.
- WS 79. Normal and polluted waters in northeastern United States, by M. O. Leighton. 1903. 192 pp.
- WS 103. A review of the laws forbidding pollution of inland waters in the United States, by E. B. Goodell. 1904. 120 pp.

- WS 108. Quality of water in the Susquehanna River drainage basin, by M. O. Leighton, with an introductory chapter on physiographic features, by G. B. Hollister. 1904. 76 pp., 4 pls.
- WS 113. The disposal of strawboard and oil-well wastes, by R. L. Sackett and Isaiah Bowman. 1905. 52 pp., 4 pls.

## SERIES M—GENERAL HYDROGRAPHIC INVESTIGATIONS.

- WS 56. Methods of stream measurement. 1901. 51 pp., 12 pls.
- WS 64. Accuracy of stream measurements, by E. C. Murphy. 1902. 99 pp., 4 pls.
- WS 76. Observations on the flow of rivers in the vicinity of New York City, by H. A. Pressey. 1903. 108 pp., 13 pls.
- WS 80. The relation of rainfall to run-off, by G. W. Rafter. 1903. 104 pp.
- WS 81. California hydrography, by J. B. Lippincott. 1903. 488 pp., 1 pl.
- WS 88. The Passaic flood of 1902, by G. B. Hollister and M. O. Leighton. 1903. 56 pp., 15 pls.
- WS 91. The natural features and economic development of Sandusky, Maumee, Muskingum, and Miami drainage areas in Ohio, by B. H. Flynn and M. S. Flynn. 1904. 130 pp.
- WS 92. The Passaic flood of 1903, by M. O. Leighton. 1904. 48 pp., 7 pls.
- WS 94. Hydrographic manual of the United States Geological Survey, prepared by E. C. Murphy, J. C. Hoyt, and G. B. Hollister. 1904. 76 pp., 3 pls.
- WS 95. Accuracy of stream measurements (second enlarged edition), by E. C. Murphy. 1904. 169 pp., 6 pls.
- WS 96. Destructive floods in the United States in 1903, by E. C. Murphy. 1904. 81 pp., 13 pls.
- WS 106. Water resources of the Philadelphia district, by Florence Bascom. 1904. 75 pp., 4 pls.
- WS 109. Hydrography of the Susquehanna River drainage basin, by J. C. Hoyt and R. H. Anderson. 1905. 215 pp., 29 pls.

## SERIES N—WATER POWER.

- WS 24. Water resources of the State of New York, Pt. I, by G. W. Rafter. 1899. 92 pp., 13 pls.
- WS 25. Water resources of the State of New York, Pt. II, by G. W. Rafter. 1899. 100-200 pp., 12 pls.
- WS 44. Profiles of rivers in the United States, by Henry Gannett. 1901. 100 pp., 11 pls.
- WS 62. Hydrography of the Southern Appalachian Mountain region, Pt. I, by H. A. Pressey. 1902. 95 pp., 25 pls.
- WS 63. Hydrography of the Southern Appalachian Mountain region, Pt. II, by H. A. Pressey. 1902. 96-190 pp., 26-44 pls.
- WS 69. Water powers of the State of Maine, by H. A. Pressey. 1902. 124 pp., 14 pls.
- WS 105. The water powers of Texas, by T. M. Taylor. 1904. 116 pp., 17 pls.
- WS 107. Water powers of Alabama, with an appendix on stream measurements in Mississippi, by B. M. Hall. 1904. 253 pp., 9 pls.
- WS 109. Hydrography of the Susquehanna River drainage basin, by J. C. Hoyt and R. H. Anderson. 1905. 215 pp., 29 pls.
- WS 115. River surveys and profiles made during 1903, arranged by W. C. Hall and J. C. Hoyt. 1905. 115 pp., 4 pls.



## SERIES O—UNDERGROUND WATERS.

- WS 4. A reconnaissance in southeastern Washington, by I. C. Russell. 1897. 96 pp., 7 pls.
- WS 6. Underground waters of southwestern Kansas, by Erasmus Haworth. 1897. 65 pp., 12 pls.
- WS 7. Seepage waters of northern Utah, by Samuel Fortier. 1897. 50 pp., 3 pls.
- WS 12. Underground waters of a portion of southeastern Nebraska, by N. H. Darton. 1898. 56 pp., 21 pls.
- WS 21. Wells of northern Indiana, by Frank Leverett. 1899. 82 pp., 2 pls.
- WS 26. Wells of southern Indiana (continuation of No. 21), by Frank Leverett. 1899. 64 pp.
- WS 30. Water resources of the Lower Peninsula of Michigan, by A. C. Lane. 1899. 97 pp., 7 pls.
- WS 31. Lower Michigan mineral waters; a study into the connection between their chemical composition and mode of occurrence, by A. C. Lane. 1899. 97 pp., 4 pls.
- WS 34. Geology and water resources of a portion of southeastern South Dakota, by J. E. Todd. 1900. 34 pp., 19 pls.
- WS 53. Geology and water resources of Nez Perces County, Idaho, Pt. I, by I. C. Russell. 1901. 86 pp., 10 pls.
- WS 54. Geology and water resources of Nez Perces County, Idaho, Pt. II, by I. C. Russell. 1901. 87-141 pp.
- WS 55. Geology and water resources of a portion of Yakima County, Wash., by G. O. Smith. 1901. 68 pp., 7 pls.
- WS 57. Preliminary list of deep borings in the United States, Pt. I (Alabama-Montana), by N. H. Darton. 1902. 60 pp.
- WS 59. Development and application of water near San Bernardino, Colton, and Riverside, Cal., Pt. I, by J. P. Lippincott. 1902. 95 pp., 11 pls.
- WS 60. Development and application of water near San Bernardino, Colton, and Riverside, Cal., Pt. II, by J. B. Lippincott. 1902. 96-140 pp.
- WS 61. Preliminary list of deep borings in the United States, Pt. II (Nebraska-Wyoming), by N. H. Darton. 1902. 67 pp.
- WS 67. The motions of underground waters, by C. S. Slichter. 1902. 106 pp., 8 pls.
- B 199. Geology and water resources of the Snake River Plains of Idaho, by I. C. Russell. 1902. 192 pp., 25 pls.
- WS 77. The water resources of Molokai, Hawaiian Islands, by Waldemar Lindgren. 1903. 62 pp., 4 pls.
- WS 78. Preliminary report on artesian basins in southwestern Idaho and southeastern Oregon, by I. C. Russell. 1903. 53 pp., 2 pls.
- PP 17. Preliminary report on the geology and water resources of Nebraska west of the one hundred and third meridian, by N. H. Darton. 1903. 69 pp., 43 pls.
- WS 90. Geology and water resources of part of the lower James River Valley, South Dakota, by J. E. Todd and C. M. Hall. 1904. 45 pp., 23 pls.
- WS 101. Underground waters of southern Louisiana, by G. D. Harris; with discussions of their uses for water supplies and for rice irrigation, by M. L. Fuller. 1904. 98 pp., 11 pls.
- WS 102. Contributions to the hydrology of eastern United States, 1903; M. L. Fuller, geologist in charge. 1904. 522 pp.
- WS 104. The underground waters of Gila Valley, Arizona, by Willis T. Lee. 1904. 71 pp., 5 pls.
- WS 106. Water resources of the Philadelphia district, by Florence Bascom. 1904. 75 pp., 4 pls.

- WS 110. Contributions to the hydrology of eastern United States, 1904; M. L. Fuller, geologist in charge. 1905. 211 pp., 5 pls.
- PP 32. Geology and underground water resources of the central Great Plains, by N. H. Darton. 1905. 433 pp., 72 pls.
- WS 111. Preliminary report on the underground waters of Washington, by Henry Landes. 1905. 85 pp., 1 pl.
- WS 112. Underflow test in the drainage basin of Los Angeles River, by Homer Hamlin. 1905. 55 pp., 7 pls.
- WS 114. Underground water of eastern United States; M. L. Fuller, geologist in charge. 1905. 285 pp., 18 pls.
- WS 118. Geology and water resources of a portion of east central Washington, by F. C. Calkins. 1905. 96 pp., 4 pls.

The following papers also relate to this subject: Underground waters of Arkansas Valley in eastern Colorado, by G. K. Gilbert, in Seventeenth Annual, Pt. II; Preliminary report on artesian waters of a portion of the Dakotas, by N. H. Darton, in Seventeenth Annual, Pt. II; Water resources of Illinois, by Frank Leverett, in Seventeenth Annual, Pt. II; Water resources of Indiana and Ohio, by Frank Leverett, in Eighteenth Annual, Pt. IV; New developments in well boring and irrigation in eastern South Dakota, by N. H. Darton, in Eighteenth Annual, Pt. IV; Rock waters of Ohio, by Edward Orton, in Nineteenth Annual, Pt. IV; Artesian well prospects in the Atlantic Coastal Plain region, by N. H. Darton, Bulletin No. 138.

#### SERIES P—HYDROGRAPHIC PROGRESS REPORTS.

Progress reports may be found in the following publications:

- For 1888-89, Tenth Annual Report, Pt. III.
- 1889-90, Eleventh Annual Report, Pt. II.
- 1890-91, Twelfth Annual Report, Pt. II.
- 1891-92, Thirteenth Annual Report, Pt. III.
- 1893-94, Bulletin No. 131.
- 1895, Bulletin No. 140.
- 1896, Eighteenth Annual Report, Pt. IV; Water-Supply Paper No. 11.
- 1897, Nineteenth Annual Report, Pt. IV; Water-Supply Papers Nos. 15 and 16.
- 1898, Twentieth Annual Report, Pt. IV; Water-Supply Papers Nos. 27 and 28.
- 1899, Twenty-first Annual Report, Pt. IV; Water-Supply Papers Nos. 35 to 39.
- 1900, Twenty-second Annual Report, Pt. IV; Water-Supply Papers Nos. 47 to 52.
- 1901, Water-Supply Papers Nos. 65, 66, and 75.
- 1902, Water-Supply Papers Nos. 82 to 85.
- 1903, Water-Supply Papers Nos. 97 to 100.

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## Berkeley, R. I.:

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- discharge..... **WS** 50, p 310

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## South Fork of Holston River at:

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65, p 297; 83, p 227; 98, p 288  
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## Bluffton, Ohio.

- rainfall data..... **WS** 75, p 111

## Boardman Creek, Nebr.

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## Boardman River near—

- Kalkaskia, Mich.:  
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- description ..... **WS** 97, p 439  
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## Boardtown Creek in—

## Coosawattee River basin:

- discharge ..... **WS** 49, p 209

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- discharge..... **WS** 49, p 208

## Boca, Cal.

## Little Truckee River near:

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- discharge, monthly ..... Ann 13, iii, p 95

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- hydrograph ..... Ann 12, ii, p 324

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## Bodie Creek ditches,

## in Nevada:

- discharge ..... **WS** 100, p 240

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## Middle Loup River at:

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## Boggs Creek, Colo., at mouth.

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## Boise River near:

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## New York canal near:

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## Boise River, Idaho:

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## Blackfoot River near:

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## Rockaway River near:

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## Raritan River near:

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## Hudson Bay drainage basin:

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## Boulder, Colo.:

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## Beaver Creek overflow channel near:

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## Bowlder Lake, Wyo.:

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## Burnsville, N. C.:

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## French Broad River basin, N. C.:

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## Bozeman, Mont.:

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## Bozeman, Mont.

## Bozeman Creek near:

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## Rocky Creek near:

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## Brackett Creek at—

## Shields Creek, Mont.:

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## Las Moras Spring near:

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## Mississippi River near:

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## Alcoy River at:

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## Rockfish Creek near:

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## Colorado River near:

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## Turkey Creek near:

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Cosby, Tenn.:

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- description ..... **WS** 65, pp 315-316;

88, p 272; 97, p 442

## Grand Rapids, Mich.—Continued.

## Grand River near—Continued.

- discharge. .... **WS** 49, p 245; 83, p 272  
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p 275-276; 97, p 446  
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83, p 277; 97, r 447  
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65, pp 316-317; 83, pp 273-274; 97, p 443  
rating table. .... **WS** 97, p 446  
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Mississippi River below:

- discharge..... Ann 22, iv, p 219

Grand River, Colo.:

- description..... **Ann** 18, iv, p 260;  
20, iv, p 388; 22, iv, p 388; **WS** 50, p 375  
drainage areas ..... **Bull** 140, p 186  
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near Glenwood Springs:

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| description.....       | <b>WS 37</b> , pp 298-294;<br>50, pp 375-376; 66, p 92;<br>85, p 48; 100, pp 89-90 |
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| discharge monthly..... | <b>Ann 22</b> , iv, p 389;<br><b>WS 75</b> , p 174; 85, p 50; 100, p 92            |
| gage heights.....      | <b>WS 37</b> , p 294;<br>50, p 376; 66, p 93; 85, p 49; 100, p 91                  |
| hydrographs.....       | <b>Ann 22</b> , iv, p 389;<br><b>WS 75</b> , p 174                                 |
| rating tables.....     | <b>WS 52</b> , p 520;<br>66, p 174; 85, p 50; 100, p 91                            |

near Grand Junction:

- description ..... **Ann** 18, iv, pp 260-261;  
                              **Bull** 131, p 48; 140, p 186;  
                              **WS** 16, p 137; 28, p 131;  
                              37, pp 294-295; 50, pp 376-377  
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                    pp 48, 92; 140, p 187; **WS** 16, pp 137-138;  
                    28, p 142; 37, p 295; 50, p 377; 66, p 98  
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                                20, iv, pp 378, 389; 21, iv, p 281  
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                              **WS** 11, p 67; 16, p 138; 28, p  
                              135; 37, pp 295-296; 50, p 377  
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                                20, iv, p 389; 21, iv, p 281  
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  iv, p 379  
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                              **WS** 28, p 144; 39, p 451

near Palisades, Colo.:

- description.... **WS** 85, pp 46-47; 100, p 87  
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discharge, monthly. **WS** 85, p 48; 100, p 89  
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near Piney Creek, Colo.:

- discharge.....
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- description ..... **Ann** 19, iv, pp 399–400;  
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near Fort Gibson:

- description ..... **WS** 37, p 268; 99, p 257  
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- analyses of water..... WS 49, p 241  
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- description ..... **WS** 65, pp 315-316;  
83, p 272; 97, p 442  
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97, p 446

## discharge, monthly...

- gage heights..... **WS** 49, pp 242, 243-244;  
65, pp 316-317; 83, pp 273-274; 97, p 443  
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- discharge..... **WS** 49, p 245  
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| description.....        | <b>WS</b> 65, p 315;<br>83, p 279; 97, p 448 |
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| discharge, daily .....  | <b>WS</b> 83, pp 281-282;<br>97, p 451       |
| discharge, monthly..... | <b>WS</b> 83, p 283;<br>97, p 452            |
| gage heights .....      | <b>WS</b> 65, p 315;<br>83, p 280; 97, p 449 |
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- description..... **WS** 83, pp 271-272  
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Grand River, Ohio, in—

**Lake Erie drainage basin:**

- description..... Ann 18, iv, pp 465-466

Grand River, Panama:

- description, etc..... Ann 22, iv, p 624

'Grand View, Idaho:

Bruneau River near:

- description ..... **Ann 18**, iv, pp 339-340;  
20, iv, p 481; **Bull 130**, pp 239-240; **WS**  
16, p 167; 28, p 155; 38, p 356; 51, p 426;  
66 p 127; 85, p 212; 100, pp 441-442  
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**Bull 140**, p 240, **WS 100**, p 442  
discharge, monthly .... **Ann 19**, iv, p 450;  
20, iv, p 473, 482; 21, iv,  
p 410; **Bull 140**, p 240  
discharge, yearly..... **Ann 20**, iv, p 62  
gage heights ..... **Bull 140**, p 240;  
**WS 16**, p 167; 28, p 161; 38, p 356; 51,  
p 427; 66, p 127; 85, p 213; 100, p 442  
hydrographs ..... **Ann 18**, iv, p 341; 19,  
iv, p 451; 20, iv, p 482; 21, iv, p 410

## Grand View, Idaho—Continued.

## Bruneau River near—Continued.

rainfall and run-off relation.... **Ann** 20,  
iv, p 474  
rating tables ..... **WS** 28, p 169; 39, p 453

## Grand Ronde River near—

## Elgin, Oreg.:

description..... **WS** 100, p 419  
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## Hilgard, Oreg.:

description..... **WS** 100, p 420  
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## Granger, Wyo.

## Black Fork of Green River near:

description..... **Ann** 18, iv, pp 268-270:  
19, iv, 391-392; 20, iv, p 381; **WS** 16,  
p 134; 28, p 131; 37, pp 287-288; 50, p 367  
discharge..... **Ann** 18, iv, p 270; **WS** 16,  
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19, iv, p 393; 20, iv, p 382;  
21, iv, p 303; 22, iv, p 362  
discharge, yearly..... **Ann** 20, iv, p 58  
gage heights..... **WS** 11, p 69;  
16, p 134; 28, p 133; 37, p 288; 50, p 367  
hydrographs..... **Ann** 18, iv, p 272;  
19, iv, p 393; 20, iv, p 382;  
21, iv, p 304; 22, iv, p 362  
rating tables... **Ann** 18, iv, p 271; 19, iv, p  
392; **WS** 28, p 144; 39, p 451; 52, p 519

## Granite, Colo.

## Arkansas River near:

description..... **Bull** 140, p 154; **WS**  
16, p 117; 28, p 107; 37, p 257; 66, p 47  
discharge..... **Bull** 140, p 154; **WS** 16,  
p 117; 28, p 116; 37, p 257; 66, p 47  
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20, iv, pp 329, 330  
discharge, yearly..... **Ann** 20, iv, p 56  
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**WS** 28, p 117

## Clear Creek near:

discharge, monthly..... **Ann** 11, ii, p 96

## Granite, Okla.

## North Fork of Red River near:

description..... **WS** 99, p 319  
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## Granite Basin reservoir site in—

## Kings River basin, Cal.:

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## Grant, N. Y.

## Black Creek near:

discharge..... **WS** 65, p 154

## Grantsdale, Mont.

## Bitterroot River near:

description..... **WS** 85, p 201; 100, p 408  
discharge..... **WS** 85, p 202; 100, p 408  
discharge, monthly..... **WS** 85, p 203;  
100, p 410

## Grantsdale, Mont.—Continued.

## Bitterroot River near—Continued.

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## Grapeland, Tex.

## Elkhart River near:

discharge..... **WS** 84, p 143

## Grapeland canal, Cal.

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## Grasse River, N. Y.:

description..... **WS** 65, p 31-32  
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## Grass Valley reservoir, Cal.:

area capacity, etc..... **Ann** 19, iv, p 627

## Grassy Creek near—

## Sprucepine, N. C.:

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Gray Bull River. *See* Grey Bull River.

## Graysonville, Va.

## Little River at:

discharge..... **Ann** 19, iv, p 173

## Grazing lands:

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## Greasy Creek, Tenn., in—

## Okoece River basin:

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## Great Basin (The):

description..... **Ann** 12, ii, p 324

## Great Cacapon, Md.

## Potomac River near:

discharge, yearly..... **Ann** 20, iv, p 49

## Great Falls, Md.

## Potomac River near:

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## Great Falls, Mont.

## Giant Springs near:

discharge..... **Ann** 19, iv, p 290

## Sun River near:

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## Great Gunpowder River near—

## Loreley, Md.:

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## Great Lakes:

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## Great Lakes drainage:

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22, iv, p 239

## Great Miami River system:

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## Great Salt Lake, Utah:

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**WS** 38, p 345  
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iv, p 465

## Great Salt Lake, Utah—Continued.

- rainfall and run-off relation..... **Ann** 20, iv,  
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## Great Salt Lake watershed:

- description..... **Ann** 19, iv, p 481

## Great Works River, N. H.:

- description..... **Ann** 22, pp 71-73  
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## Greeley, Colo.

## Cache la Poudre River near:

- description..... **WS** 99, pp 186-187  
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## Greenbrier River, W. Va.:

- description..... **Ann** 21, iv, p 158  
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- description..... **Ann** 18, iv, p 111;  
**Bull** 140, pp 77-78; **WS** 15, p 58;  
27, p 59; 36, p 163; 48, p 178-179;  
p 290; 83, p 188; 98, pp 248-249

- discharge..... **Ann** 18, iv, p 111;  
**Bull** 140, p 78; **WS** 15, p 58; 27,  
p 65; 36, p 163; 48, pp 178-179;  
65, p 290; 83, p 188; 98, p 249

- discharge, monthly..... **Ann** 18, iv, p 113;  
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204; 21, iv, p 159; 22, iv, p  
221; **WS** 75, p 100; 83, p 190

- discharge, yearly..... **Ann** 20, iv, p 51  
gage heights..... **Bull** 140, p 78;  
**WS** 11, p 41; 15, p 58; 27, p 61;  
36, p 164; 48, p 179; 65, p  
291; 83, p 189; 98, pp 249-250

- hydrographs..... **Ann** 19, iv, p 254;  
20, iv, p 204; 21, iv, p 159; 22, iv, p 221

- rainfall and run-off relation..... **Ann** 20,  
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19, iv, p 253; **WS** 39, p 445;  
52, p 515; 65, p 323; 83, p 189

## Green Creek, Cal.

## ditches from:

- discharge..... **WS** 100, p 238

## in Walker River basin:

- discharge..... **WS** 85, p 125; 100, p 230

## Greenville, Tenn.

## Nolichucky River near:

- description..... **WS** 98, pp 285-286  
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## Greenriver, Wyo.

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## Green River, Colo.

- hydrographic data..... **WS** 74, pp 127-145  
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## Green River, N. C., in—

## Broad River basin:

- discharge..... **WS** 49, p 206

## Green River, Utah-Wyo.:

- description..... **Ann** 18, iv, p 268;  
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## near Blake, Utah:

- description..... **Ann** 18, iv, pp 275-276;  
**Bull** 131, p 48; 140, pp 202-203;

- WS** 16, p 136; 28, p 131; 37, pp 292-293

- discharge..... **Ann** 18, iv, p 276;

- 19, iv, 396; **Bull** 131, pp 48, 92;

- 140, p 202; **WS** 16, p 136; 37, p 293

- discharge, monthly..... **Ann** 18, iv, p

- 278; 19, iv, p 398; 20, iv,

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- discharge, yearly..... **Ann** 20, iv, p 58

- gage heights..... **Bull** 140, p 203;

- WS** 11, p 70; 16, p 136;

- 28, p 134; 37, p 293

- hydrographs..... **Ann** 18, iv, p 279;

- 19, iv, p 398; 20, iv, p 388; 21, iv, p 305

- rainfall and run-off relation..... **Ann** 20,

- iv, p 379

- rating tables..... **Ann** 18, iv, p 277; 19, iv,

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## near Jensen, Utah:

- description..... **WS** 100, pp 123-124

- discharge..... **WS** 100, p 124

- gage heights..... **WS** 100, p 124

## near Greenriver, Wyo.:

- description..... **Ann** 18, iv, pp 272-273;

- Bull** 140, p 200; **WS** 16, p 135; 28,

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- 367; 66, p 82; 85, p 75; 100, p 124

- discharge..... **Ann** 18, iv, p 274;

- Bull** 140, p 200; **WS** 16,

- p 135; 28, p 142; 37, p

- 287; 66, p 82; 85, p 75

- discharge, monthly..... **Ann** 18, iv, p 275;

- 19, iv, p 395; 20, iv, pp 378-

- 380; 21, iv, p 302; **Bull** 140,

- p 201; **WS** 75, p 164; 85, p 77

- discharge, yearly..... **Ann** 20, iv, p 58

- gage heights..... **Bull** 140, p 201;

- WS** 11, p 70; 16, p 135; 28,

- p 134; 37, p 287; 50, p 367; 66,

- p 83; 85, p 76; 100, p 125

- hydrographs..... **Ann** 18, iv, p 275;

- 19, iv, p 396; 20, iv,

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- rainfall and run-off relation..... **Ann** 20,

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- rating tables..... **Ann** 18, iv, p 274;

- 19, iv, p 395; **Bull** 140, p 201; 28,

- p 144; 39, p 451; 66, p 173; 85, p 76

## near New Fork, Wyo.:

- discharge..... **Bull** 131, p 91

## tributaries of:

- discharge..... **WS** 100, p 127

## Green River basin:

- description..... **Ann** 19, iv, pp 394-395;  
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## Greensboro, Ga.

## Oconee River near:

- description..... **WS** 98, pp 88-89  
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## Greensboro, N. C.

- rainfall data..... **WS** 83, p 56

## Green Spot Pipe Line, Cal.

- discharge.... **Ann** 19, iv, p 536; **WS** 28, p 192  
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## Greenwich, Conn.

## East Branch of Byram River near:

- description..... **WS** 97, p 121  
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## Greenwood, S. C.

- rainfall data.... **Ann** 20, iv, pp 158, 159, 161

## Gregory, Cal.

## McCloud River near:

- description..... **WS** 100, pp 276-277  
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## Grenola, Kans.

- rainfall data..... **Ann** 19, iv, p 366;  
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## Grey Bull reservoir, Wyo.

- cost of, estimate..... **Ann** 22, iv, p 298  
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## Grey Bull River, Wyo.:

## dam site and dam proposed on:

- cross sections..... **Ann** 22, iv, p 297  
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## near Meeteetse, Wyo.:

- description..... **Ann** 19, iv, pp 293-294;  
**WS** 15, p 75; 99, p 88  
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## Grindstone, Me.

## East Branch of Penobscot River near:

- description..... **WS** 82, p 22; 97, pp 32-33  
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## Grindstone River, Cal.:

- discharge..... **WS** 66, p 167

## Groese Creek, Va., in—

## South Fork Holston River basin:

- discharge..... **WS** 49, p 214

## Gros Ventre River, Wyo.

## above mouth:

- discharge..... **WS** 100, p 461

## Groto, Colo.

## Arkansas River near:

- discharge..... **WS** 99, p 310

## Ground water at Kearney, Nebr.

- description..... **Ann** 21, iv, pp 216-217

## Grovant, Wyo.

## Snake River near—

- description..... **WS** 38, p 349  
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## Grove Creek near—

## Maysville, Ga.:

- discharge..... **WS** 49, p 207

## Grove Creek in—

## Interior drainage basin, Utah:

- discharge..... **WS** 100, p 224

## Groveland, Ga.

## Cannoochee River near:

- description..... **WS** 98, pp 71-72  
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## Lotts Creek near:

- discharge..... **WS** 98, p 80

## Groveville dam, N. Y.

## Fishkill Creek above:

- description..... **WS** 82, p 119  
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## Guadalupe River, Tex.:

- description..... **WS** 66, p 62-63  
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- description..... **WS** 84, p 156; 99, p 337  
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## near New Braunfels:

- description..... **WS** 28, p 119; 37, p 275  
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**WS** 37, p 275; 28, p 129  
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## Guadalupe River basin:

- description..... **WS** 99, p 337; 84, p 156

## Guernsey, Wyo.

## North Platte River near:

- description..... **WS** 49, p 275;  
 66, p 27; 84, pp 68-69; 99, pp 165-166  
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 66, p 27; 84, p 69; 99, p 166  
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**WS** 75, p 125; 84, p 70; 99, p 167  
 gage heights..... **WS** 49, p 275;  
 66, p 27; 84, p 69; 99, p 166  
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## Guernsey dam site on—

## North Platte River, Wyo.:

- map and sectional elevation.... **Ann** 22,  
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## Eastern:

- description..... **Ann** 22, iv, p 184;  
**WS** 75, pp 76-77

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- description..... **Ann** 20, iv, pp 353-354;  
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## Gull River, in—

## Mississippi River basin:

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## Spring Creek near:

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## Tomichie Creek near:

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## Gunnison, Utah.

## San Pitch River near:

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66, p 125; 85, p 94; 100, p 150

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## Sevier River near:

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66, p 126; 85, p 88; 100, pp 147-148

discharge..... WS 51, p 425;

66, p 126; 85, p 88; 100, p 148

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WS 75, p 197; 85, p 90; 100, p 149

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## Gunnison River, Colo.:

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## near Cimarron:

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## near Iola:

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- discharge..... **Ann** 20, iv, p 302

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## Lytle Creek canals, Cal.

## at intake:

- discharge, monthly .... Ann 21, iv, p 483

## Lytle Creek ditches Cal.

- discharge..... Ann 20, iv, p 557

## Lytle Creek rock fill dam, Cal.:

- description ..... Ann 18, iv, p 648

## M.

## McCall Ferry, Pa.

## Susquehanna River near:

- description..... WS 97, pp 266-268
- discharge ..... WS 97, pp 268-269
- discharge, monthly ..... WS 97, p 272
- gage heights..... WS 97, p 270
- rating table ..... WS 97, p 271

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## McCammon, Idaho

## Portneuf River near:

- description..... Ann 18, iv, pp 333-334
- discharge..... Ann 18, iv, p 334
- discharge, monthly .... Ann 18, iv, p 334
- gage heights..... WS 11, p 79
- rating table ..... Ann 18, iv, p 334

## McCays, Tenn.

## Okoe River near:

- description..... WS 98, pp 259-260
- discharge..... WS 98, p 260
- discharge, monthly ..... WS 98, p 262
- gage heights..... WS 98, p 261
- rating table ..... WS 98, p 261

## McCloud Creek, Cal.

- discharge..... WS 66, p 167; 85, p 156

## near Gregory, Cal.:

- description..... WS 100, pp 276-277
- discharge..... WS 100, p 277
- gage heights..... WS 100, p 277

## near Johns Camp, Cal.:

- gage heights..... WS 100, p 278

## McConnellsville, N. Y.

## Fish Creek near:

- discharge, flood ..... WS 65, p 108
- discharge, monthly..... WS 35, p 24

## West Branch of Fish Creek near:

- description ..... WS 36, pp 186-187;  
49, p 227; 65, p 108
- discharge..... WS 49, p 227
- discharge, daily ..... WS 36, p 187;  
49, pp 228-229; 65, p 109
- discharge, monthly.... Ann 22, iv, p 248;  
WS 65, pp 109-110
- hydrograph ..... Ann 22, iv, p 249

## McCook, Nebr.

## Republican River near:

- discharge.. Ann 19, iv, p 351; 20, iv, p 302;  
WS 39, p 440; 50, p 311; 66, p 43; 84, p 113

## McDonald, Wash.

## Elwha River near:

- description ..... WS 16, p 183; 28, p 171;  
38, pp 384-385; 51, p 447; 66, p 139
- discharge ..... WS 16, p 183; 28, p 176;  
38, p 385; 51, pp 447, 450; 66, p 139
- discharge, monthly.... Ann 20, iv, p 521;  
21, iv, p 439; 22, iv, p 459; WS 75, p 207
- discharge, yearly..... Ann 20, iv, p 63
- gage heights..... WS 16, p 183;  
28 p 174, 38, p 385; 51, p 448; 66, p 140
- hydrographs..... Ann 20, iv, p 521;  
21, iv, p 440; 22, iv, p 459
- rating tables..... WS 28, p 176;  
39, p 455; 52, p 523, 66, p 177

## Little River near:

- discharge..... WS 51, p 450; 66, p 142

## McDonald Lake, Mont.:

- description..... Ann 22, iv, pp 439-441

## McDonald Lake, Tex.:

- cross sections..... Ann 19, iv, p 380
- description..... Ann 19, iv, pp 376-379
- silt accumulations..... Ann 19, iv, p 379
- soundings..... Ann 19, iv, p 379

## McDonough, Ga.

## Camp Creek near:

- discharge..... WS 65, p 263

## Long Branch Creek near:

- discharge..... WS 65, p 263

## McDowell, Ariz.

## Salt River near:

- description..... Ann 19, iv, pp 418-419;  
WS 16, p 148; 28, p 133; 38,  
p 321; 50, pp 386-387; 66, p 101;  
85, pp 23-24; 100, pp 36-37
- discharge..... Ann 19, iv, p 419; WS 16,  
p 148; 28, p 143; 38, p 321; 66,  
p 102; 85 p 24; 100, pp 38-39
- discharge, monthly.... Ann 20, iv, p 406;  
21, iv, p 386; WS 75, p  
179, 85, p 25; 100, p 41

## McDowell, Ariz.—Continued.

## Salt River near—Continued.

discharge, yearly..... **Ann** 20, iv, p 59  
 gage heights..... **WS** 16, p 149; 28, p 140;  
 38, p 322; 66, p 102; 85, p 25; 100, p 40  
 hydrographs..... **Ann** 19, iv, p 423;  
 20, iv, p 406; 21, iv, p 387  
 rating tables..... **Ann** 19, iv, p 419;  
**WS** 28, p 145; 100, pp 40-41

## Verde River near:

description..... **Ann** 19, iv, pp 420-421;  
**Bull** 131, p 49; **WS** 16, p 150; 28,  
 p 133; 38, p 323; 50, p 387; 66,  
 pp 102-103; 85, p 21; 100, pp 31-32  
 discharge..... **WS** 16, p 150; 38, p 323;  
 66, p 103; 85, p 22; 100, pp 33-34  
 discharge, monthly.... **Ann** 11, ii, p 100;  
 19, iv, p 423; 20, iv, p 407; 21, iv,  
 p 387; **WS** 75, p 177; 100, p 36  
 discharge, yearly..... **Ann** 20, iv, 59  
 gage heights..... **Bull** 131, p 51; **WS** 16,  
 p 150; 28, pp 141, 143; 38, p 324;  
 66, p 103; 85, p 23; 100, p 35  
 hydrographs..... **Ann** 19, iv, p 423;  
 20, iv, p 407; 21, iv, p 388  
 rating tables..... **Ann** 19, iv, p 422

## McDowell reservoir project, Ariz.:

description..... **Ann** 18, iv, pp 718-719

## McGee Creek near—

## Bishop, Cal.:

discharge..... **WS** 100, p 225

## McGhee, Tenn.

## Little Tennessee River near:

discharge..... **WS** 98, p 293

## Machias River near—

## Whitneyville, Me.:

description..... **WS** 97, p 24  
 discharge..... **WS** 97, p 24  
 gage heights..... **WS** 97, p 24

## Machias River drainage basin:

description..... **WS** 97, p 23

## McIntosh Creek near—

## Waynesboro, Ga.:

discharge..... **WS** 98, p 71

## Mackay, Idaho

## Big Lost River near:

description..... **WS** 100, p 447  
 gage heights..... **WS** 100, p 447

## McKay Creek near—

## Pendleton, Oreg.:

description..... **WS** 100, p 365  
 discharge..... **WS** 100, p 365  
 gage heights..... **WS** 100, p 366

## McKeever, N. Y.

## Moose River below:

description..... **WS** 65, pp 98-99

## McKinney Creek near—

## Lake Tahoe:

discharge..... **WS** 100, p 232

## McMahon River near—

## Steel, Ohio:

description..... **WS** 98, p 236  
 discharge..... **WS** 98, p 236  
 gage heights..... **WS** 98, p 236

## McMahon River drainage basin:

description..... **WS** 98, p 236

## McNally Canal near—

## Bishop, Cal.:

description..... **WS** 100, p 213  
 discharge..... **WS** 100, p 213

## McNeils, N. C.

## Little Rockfish Creek near:

discharge..... **WS** 98, p 30

## Big Rockfish Creek near:

discharge..... **WS** 98, p 30

## Macon, Ga.

## Ocmulgee River near:

description..... **Ann** 18, iv, pp 79-80;  
 19, iv, p 230; **Bull** 140, p 74; **WS** 15, p  
 44; 27, p 32; 36, pp 136-137; 48, p 155;  
 65, p 264; 83, p 107; 98, pp 94-95  
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 19, iv, pp 230-231; **Bull** 140, p 75;  
**WS** 15, p 44; 27, p 44; 36, p 137;  
 48, p 155; 65, p 265; 83, p 107; 98, p 95  
 discharge, low water..... **Ann** 18, iv, p 84  
 discharge, monthly.. **Ann** 18, iv, pp 82-83;  
 19, iv, p 232; 20, iv, pp 161, 171;  
 21, iv, p 139; 22, iv, p 172;  
**WS** 75, p 75; 83, p 109; 98, p 97  
 discharge, yearly..... **Ann** 20, iv, p 51  
 gage heights..... **Bull** 140, p 75;  
**WS** 11, pp 21-23; 15, p 44; 27,  
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 19, iv, p 233; 20, iv, p 172;  
 21, iv, p 139; 22, iv, p 173  
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 19, iv, p 232; **WS** 27, p 46; 39, p 444;  
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## McPherson, Kans.

rainfall data..... **Ann** 20, iv, pp 326, 327, 330

## Mad River near

## Vance, Cal.:

discharge..... **WS** 100, p 305

## Madden Creek near—

## Lake Tahoe:

discharge..... **WS** 100, p 232

## Madison, Nebr.

## Union Creek near:

discharge.. **Ann** 18, iv, p 193; 20, iv, p 303

## Madison, N. C.

## Dan River near:

description..... **WS** 98, pp 16-17  
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 gage heights..... **WS** 98, pp 17-18

## Madison, S. C.

## Tugaloo River near:

description... **WS** 27, p 28; 36, pp 127-128;  
 48, p 149; 65, p 252; 98, pp 67-68  
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 65, p 252; 98, p 68  
 discharge, monthly.... **Ann** 20, iv, p 162;  
 21, iv, p 131; 22, iv, p 160;  
**WS** 75, p 63; 98, p 69  
 gage heights..... **WS** 27, p 40; 36, p 128;  
 48, p 149; 65, p 253; 98, p 69

## Madison, S. C.—Continued.

## Tugaloo River near—Continued.

hydrographs..... **Ann** 20, iv, p 162;  
21, iv, p 131; 22, iv, p 160  
rating tables ..... **WS** 27, p 46; 39, p 44;  
52, p 513; 65, p 320; 98, p 69

## Madison, Wis.

## Catfish River near:

description..... **WS** 83, pp 170-171;  
98, pp 196-197  
discharge..... **WS** 83, p 171; 98, p 197  
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## Lake Mendota near:

gage heights..... **WS** 98, p 198

## Madison River, Mont.

description ..... **Ann** 20, iv, pp 235-236;  
21, iv, p 185; 22, iv, pp 283-284

## near Norris, Mont.:

description ..... **WS** 99, p 130-131  
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discharge, monthly..... **WS** 99, p 132  
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rating table..... **WS** 99, p 132

## near Red Bluff, Mont.:

description..... **Ann** 14, ii, pp 102-103;  
19, iv, p 279; **Bull** 131, pp 18-19;  
**WS** 15, p 69; 27, p 68; 37, p 205;  
49, p 263; 66, pp 18-19; 84, p 46

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p 90; **WS** 15, p 69; 27, p 74; 37,  
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discharge, monthly..... **Ann** 11, ii, p 94;  
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p 284; **WS** 75, pp 116, 119; 84, p 47

discharge, yearly..... **Ann** 13, iii, p 99  
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gage heights..... **Bull** 131, p 20;  
**WS** 15, p 69; 27, p 71; 37, p 206;  
49, p 264; 66, p 19; 84, p 46

hydrographs..... **Ann** 13, iii, p 48;  
19, iv, p 280; 20, iv, p 237;  
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rating tables ..... **Ann** 19, iv, p 279;  
**Bull** 131, p 19; **WS** 27, p 75; 39,  
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## near Threeforks, Mont.:

description..... **Ann** 18, iv, p 131;  
**Bull** 131, pp 20-21; 140, p 91; **WS** 15, p 70

discharge..... **Ann** 11, ii, p 107; 13, iii,  
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discharge, monthly..... **Ann** 18, iv, p 133,  
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## Madison River basin:

description ..... **Ann** 11, ii, pp 39-40  
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## Madre ditch at—

## Del Rio, Tex.:

discharge..... **WS** 28, p 130

## Magic Hill, Cal.

rainfall data..... **WS** 39, pp 437, 438;  
52, pp 495, 496; 66, pp 168, 169

## Mahoning River near—

## Alliance, Ohio:

discharge..... **Ann** 20, iv, p 198

## Warren, Ohio:

discharge..... **Ann** 20, iv, p 198

## Youngstown, Ohio:

description ..... **WS** 98, p 238

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## Mahoning River and French Creek—

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## Mahoning River drainage basin:

description ..... **WS** 98, p 238

## Mahwah, N. J.

## Ramapo River near:

description ..... **WS** 97, p 229

discharge..... **WS** 82, p 127; 97, p 229

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## Main, Mont.

## St. Mary River at:

description ..... **WS** 66, pp 14-15;  
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## Swiftcurrent Creek near:

discharge..... **WS** 66, p 15

## Maine:

## lake storage in:

description..... **Ann** 19, iv, pp 37-39

## Maine rivers:

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## Malade River, Idaho:

description..... **Ann** 11, ii, p 83; **WS** 51, p 426

## near Bliss, Idaho:

description ..... **WS** 38, p 355

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discharge, monthly..... **Ann** 21, iv, p 408

gage heights..... **WS** 38, p 355

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## near Hailey, Idaho:

discharge..... **Ann** 11, ii, p 83

## near Tponis, Idaho:

description ..... **Ann** 18, iv, pp 336-337;

**WS** 16, p 165; 28, p 155; 38, p 354

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**WS** 16, p 166; 28, p 168; 38, p 354

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19 iv, p 449; 20, iv, pp

473, 477; 21, iv, p 407

discharge, yearly..... **Ann** 20, iv, p 62

gage heights ..... **WS** 11, p 79;

16, p 166; 28, p 160; 38, p 354

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**Bull** 140, p 144; **WS** 16, p 115;  
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 66, p 46; 84, p 97-98; 99, p 211  
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**Bull** 140, p 144; **WS** 16, p 115;  
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 19, iv, p 348; 20, iv, pp 312, 319;  
 21, iv, p 227; 22, iv, p 337;  
**WS** 75, p 143; 84, p 99; 99, p 213  
 discharge, yearly..... **Ann** 20, iv, p 6  
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**WS** 11, p 38; 66, p 115; 27, p 94; 37, p 252;  
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## Manhattan, Kans.—Continued.

## Blue River near—Continued.

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19, iv, p 349; 20, iv, p 319;  
21, iv, p 227; 22, iv, p 337

rainfall and run-off relation..... Ann 20,  
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rating tables..... Ann 18, iv, p 217;  
19, iv, p 348; WS 27, p 96; 39, p 449;  
52, p 518; 66, p 172; 84, p 99; 99, p 213

rainfall data..... Ann 20, iv, pp 306, 311, 313

## Manistee River near—

## Sherman, Mich.:

description..... WS 97, pp 440-441

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## Mankato, Minn.

## Minnesota River above:

description..... WS 99, pp 15-16

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## Manti Creek near—

## Manti, Utah:

description..... WS 51, p 424

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## Manuelitos River near—

## Sanuelo, N. Mex.:

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## Manville canal, Colo.

## at head gate:

discharge..... WS 99, p 311

## Manzana, Cal.

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## Manzanola, Colo.

## Arkansas River near:

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## Maple Creek in—

## Broad River basin, N. C.:

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## Mapleton, Utah

## Spanish Fork near:

description.. WS 51, p 415; 66, pp 122-123

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## Maple Valley, Wash.

## Cedar River near:

description..... WS 85, pp 218-219

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## Maquoketa River near—

## Manchester, Iowa:

description..... WS 99, p 18

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## Maquoketa River basin:

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## Maquoketa River, North, near—

## Cascade, Iowa:

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## Maquoketa River, South, near—

## Monticello, Iowa:

discharge..... WS 99, p 18

## Marais des Cygnes River near—

## Ottawa, Kans.:

description..... WS 84, p 14

discharge..... WS 84, p 14

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## Marble Falls in—

## Colorado River:

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## Marble Hill, Ga.

## East Long Swamp Creek near:

discharge... Ann 19, iv, p 2; WS 27, p 45

## Margueretta Flume near—

## Pecos, Tex.:

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## Pecos River near:

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## Marias River, Mont.:

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## near Shelby, Mont.:

description..... WS 84, p 32;

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discharge..... WS 66, p 23;

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## Maricopa, Ariz.

rainfall data..... Ann 12, ii, p 300

## Marietta, Ga.

rainfall data..... Ann 20, iv, pp 177, 179, 181

## Marietta, N. C.

## North Saluda Creek near:

discharge..... WS 49, p 206

## Marion, Ohio.

## Little Sciota River at:

discharge, low water..... Ann 20,

iv, pp 214-215

## Marion, Va.

## Hungry Mother Creek near:

discharge..... WS 49, p 215

rainfall data..... Ann 20, iv,

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## Staley's Creek near:

discharge..... WS 49, p 215

## Mariposa and other creeks, Cal.:

description..... Bull 140, pp 236-236

## Mariposa Creek, Cal.:

## at base of foothills:

discharge..... Bull 140, pp 311, 312

## Markham Arroyo, Colo.

## at mouth:

discharge..... WS 99, p 311

## Marlington, W. Va.

rainfall data..... Ann 20, iv, pp 199, 201, 202

## Marquette, Mich.

## Carp River near:

- description ..... **WS** 83, p 248; 97, p 485  
 discharge..... **WS** 83, p 248  
 discharge, daily..... **WS** 83,  
   p 249; 97, p 486  
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   p 249; 97, p 486  
 rainfall data..... **WS** 83, p 246;  
   **Ann** 20, iv, pp 257, 262, 265

## Marquette, Wyo.

## South Fork Shoshone River near:

- description..... **WS** 99, pp 85-86  
 discharge..... **WS** 99, p 86  
 discharge, monthly..... **WS** 99, p 87  
 gage heights..... **WS** 99, pp 86-87  
 rating table..... **WS** 99, p 87

## Stinking Water River near:

- discharge..... **Bull** 131, p 91

## Marshall, Colo.

## South Boulder Creek near:

- description..... **Ann** 18, iv, p 169;  
   **Bull** 140, pp 107-108; **WS**  
   15, p 91; 27, p 77; 37, pp 229-  
   230; 49, pp 86-287; 66, p 32  
 discharge..... **Ann** 18, iv, p 169;  
   **Bull** 140, p 10 ; **WS** 15, p 91; 27,  
   p 86; 37, p 230; 49, p 287; 66, p 32  
 discharge, monthly..... **Ann** 18, iv,  
   p 170; 19, iv, p 318; 20, iv,  
   p 287; 21, iv, p 206; 22, iv,  
   p 323; **WS** 75, pp 128, 136  
 discharge, yearly..... **Ann** 20, iv, p 54  
 gage heights..... **Bull** 140, p 108;  
   **WS** 11, p 54; 15, p 91; 27, p 82;  
   37, p 230; 49, p 287; 66, p 33  
 hydrographs..... **Ann** 19, iv, p 318;  
   20, iv, p 288; 21, iv, p 206; 22, iv, p 323  
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   19, iv, p 318; **WS** 27, p  
   89; 39, p 448; 66, p 171

## Marshall, N. C.

## French Broad River near:

- discharge ..... **Bull** 140, p 81

## Halltown, Iowa.

## Iowa River near:

- description ..... **WS** 99, p 27  
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## Marshallville, Ga.

- rainfall data ..... **WS** 75, pp 72, 74

## Marsh Run near—

## Hagerstown, Md.:

- discharge..... **Ann** 19, iv, p 149

## Marland, Nebr.

## Niobrara River near:

- discharge ..... **Ann** 18, iv, p 193;  
   20, iv, p 301; **WS** 27, p 88; 50, p 311

## Martin Creek, Tenn., near—

## Erwin:

- discharge..... **WS** 49, p 213

## Martins Creek, N. C., near—

## Murphy:

- discharge..... **WS** 98, p 293

## Martin Creek, Nev., in—

## Humboldt River basin:

- discharge..... **WS** 100, p 226

## Martindale, Mont.

## North Musselshell River near:

- discharge ..... **Ann** 11, ii, p 107

## South Musselshell River near:

- discharge ..... **Ann** 11, ii, p 107  
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## Martinsburg, W. Va.

- rainfall data..... **Ann** 20, iv, pp 117, 118, 121

## Martis Creek, Cal.:

- discharge.. **Ann** 11, ii, pp 65, 108; **WS** 51, p 405

## Marvine Creek near—

## Buford, Colo.:

- description ..... **WS** 100, p 101  
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## Marys River near—

## Deeth, Nev.:

- description..... **WS** 85, p 106; 100, p 165  
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## Marysville, Idaho.

## Fall River near:

- description ..... **WS** 85, pp 215-216;  
   100, pp 457-458  
 discharge..... **WS** 85, p 216; 100, p 458  
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## Warm River near:

- discharge..... **WS** 100, p 461

## Masons Ranch, Nev.

## South Fork Humboldt River near:

- description..... **Ann** 18, iv, p 311;  
   **WS** 16, p 156; 28, p 146; 38,  
   pp 327-328; 51, p 396; 66, p  
   105; 85, p 101; 100, p 161  
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   **WS** 16, p 156; 28, p 153;  
   38, p 328; 51, p 396; 66,  
   p 105; 85, p 102; 100, p 161  
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   20, iv, p 440; 21, iv, p 391;  
   22, iv, p 400; **WS** 75, p  
   182; 85, p 108; 100, p 163  
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 gage heights..... **WS** 11, p 76;  
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## Verdigris Creek near:

- discharge ..... **WS** 66, p 43

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- description ..... **Ann** 19, iv, pp 770-771
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- discharge ..... **Ann** 20, iv, p 301

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- description ..... **Ann** 19, iv, p 299;  
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- discharge ..... **Ann** 19, iv, p 300;  
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- discharge ..... **Ann** 18, iv, p 193;  
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- description.. **Ann** 19, iv, p 299; **WS** 84, p 16
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- description ..... **Ann** 20, iv, p 255;  
**WS** 66, p 25; 84, p 18; 99, p 46
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- discharge ..... **WS** 48, p 185;  
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- description ..... **WS** 98, pp 285-286
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- discharge ..... **WS** 49, p 218

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## Walker River near:

- description ..... **Bull** 140, pp 213-214
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- description..... **Ann** 18, iv, p 36;  
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     19, iv, p 170; **Bull** 140, p 62; **WS**  
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- description..... **WS** 51, p 452  
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- description..... **Ann** 14, ii, p 133; 18, iv,  
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22, iv, p 198; **WS** 75, p 90discharge, yearly..... **Ann** 20, iv, p 51gage heights.... **WS** 11, pp 28-30; 15, p 50;

27, p 52; 36, p 147; 48, p 163; 65, p 278

hydrographs..... **Ann** 19, iv, p 246;

20, iv, p 190; 21, iv, p 148; 22, iv, p 198

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rating tables..... **Ann** 18, iv, p 99;19, iv, p 245; **WS** 27, p 58;

39, p 445; 52, p 514; 65, p 322

## near Rome, Ga.:

discharge.. **Ann** 18, iv, p 109; 19, iv, p 252

## Opelika, Ala.

rainfall data..... **WS** 75, pp 86, 87

## Ophir Creek in—

## Washoe Valley, Nev.:

discharge..... **WS** 100, p 231

## Opossum Creek in—

## James River basin:

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## Ora, Idaho.

## Black Springs Creek near:

discharge..... **WS** 85, p 216

## North Fork Snake River near:

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## Orchard, Colo.

## South Platte River near:

description..... **Ann** 18, iv, p 166;**Bull** 140, pp 112-113; **WS** 15, p 89;

27, pp 77-78; 37, p 226; 49, p 282

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27, p 86; 37, p 226; 49, p 283

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iv, pp 315-316; 20, iv,

pp 264, 293; 21, iv, p 203;

22, iv, p 320; **WS** 75, p 136discharge, yearly..... **Ann** 20, iv, p 54gage heights..... **WS** 11, p 53; 15, p 89;

27, p 84; 37, p 227; 49, p 283

## Orchard, Colo.—Continued.

## South Platte River near—Continued.

- hydrographs.... **Ann** 19, iv, p 316; 20, iv, p 294; 21, iv, p 203; 22, iv, p 320  
 rainfall and run-off relation.... **Ann** 20, iv, p 266; **WS** 75, p 137  
 rating tables... **Ann** 19, iv, p 315; **WS** 27, p 89; 39, p 448; 52, p 517

## Ord, Nebr.

## North Loup River near:

- discharge ..... **Bull** 140, p 115

## Oreana, Nev.

## Humboldt River near:

- description ..... **Ann** 18, iv, p 306;  
                               **Bull** 140, p 220; **WS** 16, p 155; 28, p 146; 38, p 330; 51, p 398; 66, p 107; 85, p 96; 100, pp 152-153  
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                               **WS** 16, p 155; 28, p 153; 38, p 330; 51, p 398; 66, p 107; 85, p 97; 100, p 153  
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## Orin Junction, Wyo.

## North Platte River near:

- description ..... **Ann** 18, iv, pp 150-151; 19, iv, p 305; **Bull** 131, pp 29-30; **WS** 15, p 83; 27, p 76; 37, pp 217-218; 49, p 274  
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                               **Bull** 131, p 90, 91, 92; 140, p 98; **WS** 15, p 83; 27, p 86; 37, p 218  
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                               19, iv, p 307; 20, iv, pp 262, 266; 21, iv, p 196; **Bull** 140, p 99  
 discharge, yearly..... **Ann** 20, iv, p 54  
 gage heights..... **Bull** 140, p 99;  
                               **WS** 11, p 51; 15, p 83; 27, p 79; 37, p 218; 49, p 275  
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                               19, iv, p 307; 20, iv, p 267; 21, iv, p 196  
 rainfall and run-off relation.... **Ann** 20, iv, p 265  
 rating tables..... **Ann** 18, iv, p 152;  
                               19, iv, p 306; **Bull** 140, p 98; **WS** 27, p 88; 39, p 447

## Oriskany, N. Y., near. See Oriskany Creek;

## Oriskany feeder.

## Oriskany Creek, N. Y.:

- drainage areas..... **WS** 65, p 148  
 near Coleman, N. Y.:  
 description ..... **WS** 35, p 47  
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## Oriskany Creek, N. Y.—Continued.

## near Oriskany, N. Y.:

- description..... **WS** 35, pp 47-48;  
                               47, pp 45-46; 65, pp 145-146, 147-148; 82, p 79; 97, p 217  
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                               65, p 148; 82, pp 79-80; 97, p 217  
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 discharge, monthly..... **Ann** 22, iv, p 88;  
                               **WS** 35, p 24; 65, p 147  
 gage heights..... **WS** 65, p 149; 82, p 80  
 hydrographs... **Ann** 21, iv, p 66; 22, iv, p 89

## Oriskany feeder near—

## Oriskany, N. Y.:

- discharge..... **WS** 65, p 147

## Orleans, Nebr.

## Republican River near:

- discharge..... **WS** 39, p 440

## Orono, Me.

## Penobscot River near:

- discharge..... **Ann** 19, iv, pp 56-57  
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## Orono Island, Me.

## East and West branches of Stillwater

## River near:

- discharge..... **Ann** 19, iv, pp 56-57

## Oroville, Cal.

## Feather River near:

- description ..... **WS** 85, p 133; 100, p 272  
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                               85, p 133; 100, p 273  
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                               100, p 274  
 gage heights..... **WS** 85, p 134; 100, p 273  
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## Orwell, N. Y.

## Salmon River near:

- description ..... **WS** 36, pp 190-191

## Osage River near—

## Ottawa, Kans.:

- description ..... **WS** 99, p 41  
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## Osborn, Ga.

## Hightower Creek near:

- discharge..... **WS** 49, p 217

## Osceola, Va.

## Middle Fork of Holston River near:

- discharge..... **WS** 27, p 66

## Oshkosh, Wis.

## Fox River near:

- description ..... **WS** 83, p 298  
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## Oswegatchie River, N. Y.

- description ..... **WS** 65, pp 33-35

## near Ogdensburg:

- description ..... **WS** 97, p 360  
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## Oswego, N. Y.

## Oswego River near. See Oswego River.

## Oswego River, N. Y.:

description ..... Ann 21, iv, p 182  
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## near Fulton, N. Y.:

description ..... WS 36, pp 188-189;  
 65, pp 133-134; 82, p 71

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## near Minetto, N. Y.:

description ..... WS 65, p 134;  
 82, p 72; 97, p 378

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 65, p 136; 82, p 76; 97, p 378

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 pp 72-74; 97, p 380

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## near Oswego, N. Y.:

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 65, pp 137-138; 82, p 76

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 pp 232-233; 65, p 138

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 250-251, WS 65, p 139

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## Oswego River basin:

map ..... Ann 21, iv, p 180

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## Otay (Lower) dam:

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## Otay (Lower) reservoir:

plans ..... Ann 18, iv, p 637

## Otero ditch near—

Apishapa flume, Colo.:

discharge ..... Bull 131, p 91

Rocky Ford, Colo.:

discharge ..... Bull 131, p 90

## Otis, S. Dak.

Squaw Creek near:

discharge ..... WS 49, p 272

## Ottawa, Ill.

Fox River near:

description ..... WS 83, p 173; 98, p 207

discharge ..... WS 98, p 207

gage heights ..... WS 98, p 208

Illinois River near:

description ..... WS 83,  
 pp 172-173; 98, pp 204-205

discharge ..... WS 98, p 205

discharge, monthly ..... WS 98, p 207

gage heights ..... WS 98, p 206

rating table ..... WS 98, p 206

## Ottawa, Kans.

Marais des Cygnes River near:

description ..... WS 84, pp 14-49

discharge ..... WS 84, p 14

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Osage River near:

description ..... WS 99, p 41

discharge ..... WS 99, p 42

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## Ottawa, Ohio.

Blanchard River near:

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discharge ..... WS 83, p 240; 97, p 426

gage heights ..... WS 83, p 240; 97, p 427

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Ottawa River, Quebec, near Carillon:

discharge ..... Ann 20, iv, p 227

Ottawa River, Ohio, near—

Lima:

description ..... WS 83, p 240; 97, pp 427-428

discharge ..... WS 83, p 241; 97, p 428

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Otter Creek, Okla., near—

Mountain Park, Okla.:

description ..... WS 99, pp 316-317

discharge ..... WS 99, p 317

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Otter Creek, Vt., near—

Middlebury:

description ..... WS 97, p 353

discharge ..... WS 97, p 353

discharge, monthly ..... WS 97, p 355

gage heights ..... WS 97, p 354

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Otter Creek, Va., in—

James River basin:

discharge ..... Ann 19, iv, p 170

## Ottumwa, Iowa.

Des Moines River near:

discharge ..... WS 99, p 34

Ouachita River near—

Camden, Ark.:

discharge ..... WS 84, p 140

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Ouray School, Utah

Uinta River near:

description ..... WS 37, p 291; 50, p 371;  
 66, p 86; 85, p 52; 100, pp 103-104

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50, p 372; 66, p 87; 85, p 54; 100, p 105

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 p 174; 100, p 105

Overton, Cal.

Independence Creek near:

description ..... WS 85, p 121; 100, p 197

discharge ..... WS 85, p 122; 100, p 197

discharge, monthly ..... WS 100, p 199

gage heights ..... WS 85, p 122; 100, p 198

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Owens Creek in—

James River basin:

discharge ..... Ann 19, iv, p 171



## Palisade, Nev.

## Humboldt River near:

description..... **WS** 85, p 100; 100, p 157  
 discharge..... **WS** 100, p 158  
 discharge, monthly..... **WS** 100, p 159  
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## Pine Creek near:

description..... **WS** 85, p 101; 100, p 160  
 discharge..... **WS** 85, p 101; 100, p 160  
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## Palisades, Colo.

## Grand River near:

description.... **WS** 85, pp 46-47; 100, p 87  
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## Pallett Creek near—

## Cienega, Cal.:

discharge..... **Ann** 19, iv, p 535

## Palmdale, Cal.:

discharge..... **WS** 28, p 190

## Palmdale, Cal.

## Bigrock Creek near:

discharge..... **WS** 28, p 190

## Littlerock Creek near:

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 19, iv, pp 526-527; 20, iv, p 540;  
**WS** 16, p 193; 28, pp 186-187  
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**WS** 16, p 193; 85, p 190  
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 19, iv, p 527; 20, iv, p 540; 21, iv, p 471  
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 19, iv, p 527; **WS** 28, p 191

## Pallett Creek near:

discharge..... **WS** 28, p 190  
 rainfall data..... **Ann** 18, iv, p 418;  
 19, iv, pp 538, 539; 20, iv, pp  
 560, 561; **WS** 39, pp 437, 438;  
 52, pp 495, 496; 66, pp 168, 169

## Palmer, Nebr.

rainfall data..... **Ann** 20, iv, pp 257, 261, 265

## Palmer's Creek in—

## Carson Valley Nev.:

discharge..... **WS** 100, p 227

## Palos, Ala.

## Locust Fork of Black Warrior River near:

description..... **WS** 83, p 159; 98, p 164  
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 discharge, monthly. **WS** 83, p 161; 98, p 166  
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## Palouse River, Wash.

canals and water powers..... **Ann** 19,  
 iv, pp 458-459

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## near Hooper, Wash:

description..... **WS** 16, p 172;  
 28, p 155; 38, pp 360-361; 51, p 443; 66,  
 p 136; 85, pp 203-204; 100, pp 413-414  
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## Palouse River, Wash.—Continued.

## near Hooper, Wash.—Continued.

discharge, monthly... **Ann** 20, iv, pp 489,  
 514; 21, iv, p 414; 22, iv, p  
 452; **WS** 75, p 206; 85, p 205  
 discharge, yearly..... **Ann** 20, iv, p 62  
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 28, p 162; 38, p 361; 51, p 444;  
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 52, p 522; 66, p 177; 85, p 205

## Palouse River basin:

description..... **Ann** 22, iv, p 451

## Palouse and Walla Walla River basins,

## Wash.:

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## Panama canal route:

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## Pantano, Ariz.

rainfall data..... **Ann** 12, ii, p 307

## Panther Creek near—

## Turnerville, Ga.:

discharge..... **WS** 49, p 206

## Paperville, Tenn.

## Sinking Creek near:

discharge..... **WS** 49, p 215

## Parachute, Colo.

rainfall data..... **Ann** 20, iv, pp 375,  
 376, 379, 397, 398, 399

## Paradise Cut, Cal.

## San Joaquin River near:

discharge..... **Bull** 140, p 314

## Paradise Valley canal near—

## Chinook, Mont.:

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## Parkers Creek in—

## Shenandoah River basin:

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## Parks Creek, Ga., in—

## Etowah River basin:

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## Parks Creek, Nev., in—

## Carson River basin:

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## Park's Mill, Ga.

## Oconee River near:

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## Parksville, Tenn.

## Bakers Creek near:

discharge..... **WS** 49, p 218

## Okoe River near:

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## Paris, Idaho.

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## Paris Creek in—

## Interior drainage basin, Idaho:

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## Parleys Creek near—

## Salt Lake City, Ut.h:

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- Parlin, Colo.  
Swartz Creek near:  
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Stanislaus River near:  
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Columbia River near:  
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- Passadumkeag River, Me.  
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- Passaic River, N. J.:  
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- Passaic River basin:  
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82, p 123; 97, pp 223-224
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- Pass Creek, Wyo., in—  
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- Passumpsic River near—  
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- Pastoria Creek in—  
San Joaquin River basin:  
description..... **Bull** 140, pp 258-259  
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- Patapsco River, Md., near—  
Woodstock:  
description..... **Ann** 18, iv, p 16; 22, iv, p  
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**WS** 15, p 13; 27, p 23; 35, p 83; 48,  
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65, p 228; 82, p 166; 97, p 304  
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- Patoka River:  
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**WS** 15, p 14; 27, p 10  
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20, iv, pp 113, 116  
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- Patuxent River basin, Md.:  
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## North Fork of Humboldt River near:

- description..... **WS** 28, p 145;  
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## Pelican Lake, S. Dak.

- description..... **Ann** 22, iv, pp 300-302  
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## Pemberwick, Conn.

## Byram River near:

- description..... **WS** 97, p 119  
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## Pembina, N. Dak.

## Red River near:

- description..... **WS** 66, pp 12-13  
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## Pembina River near—

## Neche, N. Dak.:

- description..... **WS** 100, pp 488-489  
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## Penigewasset River near—

## Plymouth, N. H.:

- description..... **WS** 97, pp 73-74  
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## Pendergrass, Ga.

## Middle Oconee River near:

- discharge..... **WS** 49, p 207

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- discharge..... **WS** 49, p 207

## Pendleton, Oreg.

## McKay Creek near:

- description..... **WS** 100, p 365  
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## Umatilla River near:

- description..... **Bull** 131, p 68;  
**WS** 100, pp 362-363  
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## Califon, N. J.:

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## Cedar River near:

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## French Broad River basin, N. C.:

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## Pecos River near:

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## Bighorn River basin:

- discharge..... **Ann** 13, iii, p 70

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- rainfall data..... **WS** 52, pp 495, 496;  
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- discharge..... Ann 18, iv, p 206;  
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- Watauga River basin:  
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- Potomac River basin:  
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- Cruetz ditch near:  
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- James River basin:  
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- Battle Creek basin, S. Dak.:  
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## Strawberry, Cal.

## South Fork Stanislaus River near:

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- in canyon:  
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- description ..... WS 100, p 112
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- description ..... Ann 21, iv, p 61;  
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## Wabash River basin:

- description ..... Ann 18, iv, p 451

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Susan River near—  
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 66, p 116; 100, p 205  
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Susan River near. *See* Susan River.

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                  20, iv, p 110; 21, iv, p 92;  
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                  **WS** 27, p 24; 39, p 442; 52, p 511;  
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## Susquehanna River, North Branch of, near—

## Danville, Pa.:

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                  48, p 111; 65, p 220; 82, p 155; 97, p 233

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                  22, iv, p 126; **WS** 75, pp

                  30-31; 82, p 157; 97, p 285

gage heights. .... **WS** 35, p 78; 48, p 111;

                  65, p 221; 82, p 156; 97, p 283

hydrographs. .... **Ann** 21, iv, p 89;

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                  65, p 318; 82, p 157; 97, p 284

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                  65, p 220; 82, p 153; 97, p 287

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                  22, iv, p 125; **WS** 82, p 155; 97, p 289

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## Susquehanna River, West Branch of, near—

## Allenwood, Pa.:

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discharge. .... **WS** 35, p 79;

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                  48, p 112; 65, p 226; 82, p 160

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## near Williamsport, Pa.:

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                  82, p 158; 97, p 280

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## Susquehanna River basin:

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                  82, p 143; 97, p 266

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## Swamp River, N. Y.

## above mouth:

discharge. .... **WS** 65, p 86

## Swanger Creek, in—

## Walker River basin:

discharge. .... **WS** 85, p 125; 100, p 230

## Swannanoa River near—

## Biltmore, N. C.:

discharge. .... **Ann** 18, iv, p 123; **WS** 49, p 211

## Swannanoa River, North Fork of, near—

## Swannanoa, N. C.:

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## Swan River near—

## Holt, Mont.:

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## Swanton, Ohio.

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## Swanton, Vt.

## Missisquoi River near:

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## Swartz Creek near—

## Parlin, Colo.:

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## Sweet Creek near—

## Bigtimber road, Mont.:

discharge. .... **Ann** 11, ii, p 107

## Sweetwater Creek near—

## Austell, Ga.:

description. .... **Ann** 18, iv, p 93

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**WS** 36, p 141; 83, pp 127, 128

## Sweetwater Creek in—

## Walker River basin:

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Sweetwater Creek ditches—  
in Nevada:

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## Sweetwater dam, Cal.

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## Sweetwater reservoir, Cal.

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## near Sweetwater dam:

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## Sweetwater River basin, Cal.

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## Sweetwater River, Wyo., near—

## Devils Gate:

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## Splitrock, Wyo.:

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## Swift Creek near—

## Lyons, Ga.:

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## Swift Creek near—

## Afton Bridge, Wyo.:

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## Swiftcurrent Creek near—

## Main, Mont.:

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## St. Mary, Mont.:

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## Swink, Colo.

## Timpas Creek near:

discharge..... WS 99, p 310

## Sylco Creek, Tenn., in—

## Okoe River basin:

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## Sylvan Glen Creek near—

## New Hartford, N. Y.:

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## Taberg station, N. Y.

## Fish Creek near:

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## Taboosa Creek near—

## Black Rock, Cal.:

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## Truckee River near:

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## Tahoe Lake, Cal.-Nev.

## streams flowing into:

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## Tails Creek in—

## Coosawattee River basin:

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## Talking Rock Creek near—

## Carters, Ga.:

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## Talladega Creek near—

## Kymulga, Ala.:

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## Tallapoosa, Ga.

## Tallapoosa River near:

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- Tallapoosa Creek near—  
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- Tallapoosa River:  
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## Toponis, Idaho—Continued.

## Malade River near:

- description ..... Ann 18, iv, pp 336-337;  
WS 16, p 165; 28, p 155; 38, p 354  
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## Toppenish River, Wash.:

- discharge ..... Bull 131, p 92  
near Toppenish, Wash.:  
description..... Bull 131, p 74

## Toronto, Kans.

- rainfall data..... Ann 19, iv, p 366

## Torrey Springs near—

- Albion, Mich.:  
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## Toston, Mont.

## Missouri River near:

- discharge ..... Ann 11, ii, p 42

## Towaliga River near—

- Juliette, Ga.:  
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## Town Bluff, Ga.

## Altamaha River near:

- discharge ..... Ann 20, iv, p 169

## Town Creek near—

- Alice, Ga.:  
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## Town Creek in—

## Potomac River basin:

- discharge..... Ann 19, iv, p 147

## Town Creek, Tenn., in—

## Watauga River basin:

- discharge..... WS 49, p 216

## Townsend, Mont.

## Missouri River near:

- description ..... Ann 18, iv, p 123;  
19, iv, p 283; Bull 131, pp 22-24;  
140, p 93; WS 15, p 65, 27, p 68;  
37, p 208; 49, p 265; 66, p 20;  
84, pp 336-337; 99, pp 119-120  
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Bull 131, pp 23, 90, 92; 140, p 93  
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p 265; 66, p 21; 84, p 338, 99, p 121

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## Missouri River near—Continued.

- discharge, monthly ..... Ann 19, iv,  
pp 284, 285; 20, iv, pp 234, 244;  
21, iv, p 187; 22, iv, p 286  
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## Toyah Creek, Tex.

- description..... WS 50, pp 361-362

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## Santa Ynez River basin, Cal.:

- discharge ..... WS 100, p 346

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## Boardman River near:

- description ..... WS 97, p 439  
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## Tres Piedras Mesa, N. Mex.:

- description ..... Ann 12, ii, p 257

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## Adairsville, Ga.:

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## Purgatory River near:

- description ..... Ann 18, iv, pp 231-232;  
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## Trinity River, Tex.:

- description ..... Ann 21, iv, p 254  
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## Trunk Butte Creek, Nebr.:

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## Tugaloo River, S. C.—Continued.

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## Tujunga River, Cal.

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## Tule River, Cal.:

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## Tule River, South Fork of, Cal.:

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## Tunis Creek in—

San Joaquin River basin:

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     19, iv, p 512; **Bull** 140, pp 301,  
     302; **WS** 16, p 188; 28, p 185;  
     38, p 394; 51, pp 457-458; 66, pp  
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     383; 19, iv, p 513; 20, iv, p 532;  
     21, iv, pp 449, 454; 22, iv, p  
     465; **WS** 75, p 214; 85, p 145  
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     51, p 457; 66, p 149; 85, p 143; 100, p 286  
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     19, iv, p 513; **Bull** 140, p 302;  
     **WS** 28, p 186; 39, p 455; 52, p 523;  
     66, p 178; 85, p 143; 100, p 287

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     140, pp 298, 300; **WS** 16, p 189  
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     **Bull** 131, p 84; 140, p 301; **WS** 16, p 189  
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     **Bull** 140, p 301  
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     140, pp 299-300; **WS** 11, p 91; 16, p 189  
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     18, iv, p 386  
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## Coosawattee River drainage basin, Ga.:

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## Turkey Creek, N. C., at—

## Blackwell Springs:

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## Turkey Creek, Okla., near—

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## Panther Creek near:

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## Robinson Creek near:

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Kennedy Creek near:

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## Wheatland, Cal.

Bear River near:

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## White Clay Creek, Nebr.:

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## White River, Wash.

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near Buckley, Wash.:

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## Piciance Creek near:

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## White River, North Fork, near—

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## White River, South Fork, near—

## Buford, Colo.:

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## Florence canal near:

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## White Sulphur Springs, W. Va.

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## White Tail Creek, Nebr.

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## White Top Creek, Va., in—

## South Fork Holston River basin:

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## Gunnison River near:

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## Whitewater River, Cal.:

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## Whitlows ranch, Ariz.

## Queen Creek near:

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## Enoree River near:

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## White River near:

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## Machias River near:

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## springs in:

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## James River basin:

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## Big Blue River near:

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## White River near:

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## Wabash River basin:

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## Teton River near:

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## Yadkin River near:

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## Fish Creek near:

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- 1895. Bulletin No. 140.
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- 1899. Water-Supply Papers Nos. 35, 36, 37, 38, and 39; Twenty-first Annual Report, Part IV.
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