UNITED STATES DEPARTMENT OF THE INTERIOR
RAY LYMAN WILBUR, Secretary
GEOLOGICAL SURVEY
GEORGE OTIS SMITH, Director

Water-Supply Paper 649

# SURFACE WATER SUPPLY *of the* UNITED STATES

# 1927

## PART IX
## COLORADO RIVER BASIN

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Prepared in cooperation with the States of
COLORADO, WYOMING, UTAH, CALIFORNIA, and ARIZONA



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# SURFACE WATER SUPPLY OF COLORADO RIVER BASIN, 1927

## AUTHORIZATION AND SCOPE OF WORK

This volume is one of a series of 14 reports presenting results of measurements of flow made on streams in the United States during the year ending September 30, 1927.

The data presented in these reports were collected by the United States Geological Survey under the following authority contained in the organic law (20 Stat. L., p. 394):

*Provided,* That this officer [the director] shall have the direction of the Geological Survey and the classification of public lands and examination of the geological structure, mineral resources, and products of the national domain.

The work was begun in 1888 in connection with special studies relating to irrigation in the West. Since the fiscal year ending June 30, 1895, successive appropriation bills passed by Congress have carried the following items:

For gaging the streams and determining the water supply of the United States and for the investigation of underground currents and artesian wells, and for the preparation of reports upon the best methods of utilizing the water resources.

*Annual appropriations for the fiscal years ending June 30, 1895–1928*

| | | | |
|---|---|---|---|
| 1895 | $12, 500. 00 | 1918 | $175, 000. 00 |
| 1896 | 20, 000. 00 | 1919 | 148, 244. 10 |
| 1897–1900 | 50, 000. 00 | 1920 | 175, 000. 00 |
| 1901–1902 | 100, 000. 00 | 1921–1923 | 180, 000. 00 |
| 1903–1906 | 200, 000. 00 | 1924–1925 | 170, 000. 00 |
| 1907 | 150, 000. 00 | 1926 | 165, 000. 00 |
| 1908–1910 | 100, 000. 00 | 1927 | 151, 000. 00 |
| 1911–1917 | 150, 000. 00 | 1928 | 147, 000. 00 |

In the execution of the work many private and State organizations have cooperated either by furnishing data or by assisting in collecting data. Acknowledgments for cooperation of the first kind are made in connection with the description of each station affected; cooperation of the second kind is acknowledged on page 9.

Measurements of stream flow have been made at about 5,330 points in the United States and also at many points in Alaska and the Hawaiian Islands. In July, 1927, 1,750 gaging stations were

being maintained by the Geological Survey and the cooperating organizations. Many miscellaneous discharge measurements were made at other points. In connection with this work data were also collected in regard to precipitation, evaporation, storage reservoirs, river profiles, and water power in many sections of the country and will be made available in water-supply papers from time to time.

## DEFINITION OF TERMS

The volume of water flowing in a stream—the "run-off" or "discharge"—is expressed in various terms, each of which has become associated with a certain class of work. These terms may be divided into two groups—(1) those that represent a rate of flow, as second-feet, gallons per minute, miner's inches, and discharge in second-feet per square mile; and (2) those that represent the actual quantity of water, as run-off in inches, acre-feet, and millions of cubic feet. The principal terms used in this series of reports are second-feet, second-feet per square mile, run-off in inches, and acre-feet. They may be defined as follows:

"Second-feet" is an abbreviation for "cubic feet per second." A second-foot is the rate of discharge of water flowing in a channel of rectangular cross section 1 foot wide and 1 foot deep at an average velocity of 1 foot per second. It is generally used as a fundamental unit from which others are computed.

"Second-feet per square mile" is the average number of cubic feet of water flowing per second from each square mile of area drained on the assumption that the run-off is distributed uniformly both as regards time and area.

"Run-off in inches" is the depth to which an area would be covered if all the water flowing from it in a given period were uniformly distributed on the surface. It is used for comparing run-off with rainfall, which is usually expressed in inches.

An "acre-foot," equivalent to 43,560 cubic feet, is the quantity required to cover an acre to the depth of 1 foot. The term is commonly used in connection with storage for irrigation.

The following terms not in common use are here defined:

"Stage-discharge relation," an abbreviation for the term "relation of gage height to discharge."

"Control," a term used to designate the natural section or stretch of the channel or artificial structure below the gage which determines the stage-discharge relation at the gage.

## EXPLANATION OF DATA

The data presented in this report cover the year beginning October 1, 1926, and ending September 30, 1927. At the beginning of January in most parts of the United States much of the precipita-

tion in the preceding three months is stored in the form of snow or ice, or in ponds, lakes, and swamps, or as underground water and this stored water passes off in the streams during the spring break-up. At the end of September, on the other hand, the only stored water available for run-off is possibly a small quantity in the ground; therefore the run-off for the year beginning October 1 is practically all derived from precipitation within that year.

The base data collected at gaging stations consist of records of stage, measurements of discharge, and general information used to supplement the gage heights and discharge measurements in determining the daily flow. The records of stage are obtained either from direct readings on a staff gage, chain gage, or from a water-stage

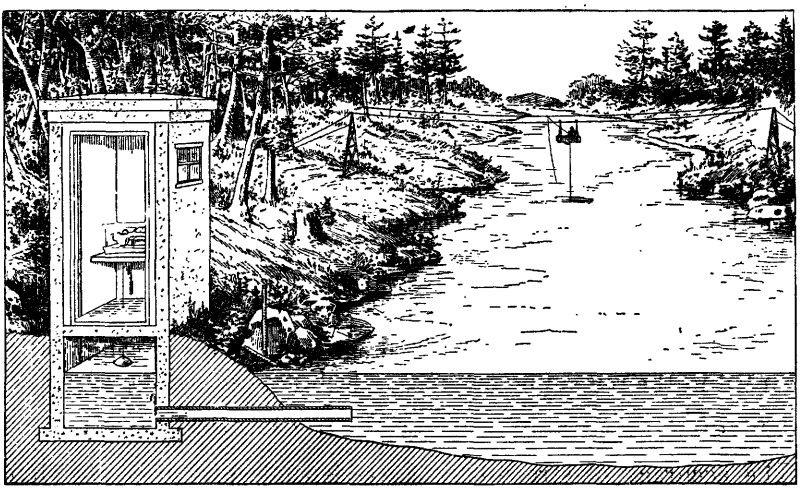

FIGURE 1.—Typical gaging station

recorder that gives a continuous record of the fluctuations. Measurements of dicharge are made with a current meter by the general methods outlined in standard textbooks on the measurement of river discharge. A typical gaging station, equipped with water-stage recorder and measuring cable and car, is shown in Figure 1.

From the discharge measurements rating tables are prepared that give the discharge for any stage. The application of the daily gage height to these rating tables gives the daily discharge from which the monthly and yearly mean discharge is determined.

The data presented for each gaging station in the area covered by this report comprise a description of the station, a table showing the daily discharge of the stream, and a table of monthly and yearly discharge and run-off.

The description of the station gives, in addition to statements regarding location and type of gage, information as to diversions that

decrease the flow at the gage, artificial regulation, maximum and minimum recorded stages, and the accuracy of the records. The maximum discharge given under "Extremes" does not represent the crest discharge unless a water-stage recorder was in operation or unless a nonrecording gage was read at the time of the crest.

The table of daily discharge gives, in general, the discharge in second-feet corresponding to the daily gage height, which may be a once-daily reading or the mean of twice-daily readings of a nonrecording gage or the mean daily gage height obtained from a water-stage recorder graph.

At stations on streams subject to sudden or rapid diurnal fluctuation the discharge obtained from the rating table and the mean daily gage height may not be the true mean discharge for the day. If such stations are equipped with water-stage recorders, the mean daily discharge may be obtained by averaging discharge at regular intervals during the day or by using the discharge integrator, an instrument for obtaining mean daily discharge from a continuous gage-height graph and containing as an essential element the rating curve of the station.

In the table of monthly discharge the column headed "Maximum" gives the maximum daily discharge and not the discharge when the water surface was at crest height. Likewise, in the column headed "Minimum" the quantity given is the minimum daily discharge. The column headed "Mean" is the average flow in cubic feet per second during the month. On this average flow are based computations recorded in the remaining columns, which are defined on page 2.

## ACCURACY OF FIELD DATA AND COMPUTED RESULTS

The accuracy of stream-flow data depends primarily (1) on the permanence of the stage-discharge relation and (2) on the accuracy of observation of stage, measurements of flow, and interpretation of records.

The station description gives a statement in regard to the general accuracy of the records. "Excellent" indicates that records are accurate within 5 per cent; "good," within 10 per cent; "fair," within 15 per cent; and "poor," within 20 per cent or more.

The monthly means for any station may represent with high accuracy the quantity of water flowing past the gage, but the figures showing discharge per square mile and run-off in inches may be subject to gross errors caused by the inclusion of large noncontributing districts in the measured drainage area, by lack of information concerning water diverted for irrigation or other use, or by inability to interpret the effect of artificial regulation of the flow of the river above the station. "Second-feet per square mile" and "run-off in inches" are therefore not computed if such errors appear probable. The computations are also omitted for stations on streams draining areas in which the annual rainfall is less than 20 inches.

The table of monthly discharge gives a general idea of the flow at the station. The table of daily discharge allows more detailed studies of the variation in flow. It should be borne in mind, however, that the observations in each succeeding year may be expected to throw new light on data previously published.

Many gaging stations on streams in the irrigated areas of the United States are located above most of the diversions from those streams, and the discharge recorded does not show the water supply available for further development, as prior appropriations below the stations must be satisfied first.

## PUBLICATIONS

Investigation of water resources by the United States Geological Survey has consisted in large part of measurements of the volume of flow of streams and studies of the conditions affecting that flow, but it has comprised also investigations of such closely allied subjects as irrigation, water storage, water power, underground waters, and quality of waters. Most of the results of these investigations have been published in the series of water-supply papers, but some have appeared in the bulletins, professional papers, monographs, and annual reports.

The results of stream-flow measurements are now published annually in 12 parts, each part covering an area whose boundaries coincide with natural-drainage features, as indicated below:

Part I. North Atlantic slope basins (St. John River to York River).
II. South Atlantic slope and eastern Gulf of Mexico basins (James River to the Mississippi).
III. Ohio River Basin.
IV. St. Lawrence River Basin.
V. Hudson Bay and upper Mississippi River Basins.
VI. Missouri River Basin.
VII. Lower Mississippi River Basin.
VIII. Western Gulf of Mexico basins.
IX. Colorado River Basin.
X. The Great Basin.
XI. Pacific slope basins in California.
XII. North Pacific slope basins in three volumes:
A, Pacific slope basins in Washington and upper Columbia River Basin.
B, Snake River Basin.
C, Pacific slope basins in Oregon and lower Columbia River Basin.

Water-supply papers and other publications of the United States Geological Survey containing data in regard to the water resources of the United States may be obtained or consulted as indicated below:

1. Copies may be purchased at nominal cost from the Superintendent of Documents, Government Printing Office, Washington, D. C., who will, on application, furnish lists giving prices.

2. Sets of the reports may be consulted in the libraries of the principal cities in the United States.

3. Sets are available for consultation in the local offices of the water-resources branch of the Geological Survey, as follows:

Augusta, Me., Statehouse.
Boston, Mass., 2500 Customhouse.
Hartford, Conn., 64 State Capitol.
Albany, N. Y., 506 Broadway-Arcade Building.
Trenton, N. J., 710 Trenton Trust Building.
Charlottesville, Va., Brooks Museum, University of Virginia.
South Charleston, W. Va., Naval Ordnance Plant.
Asheville, N. C., 608 City Hall.
Ocala, Fla., Federal Building.
Chattanooga, Tenn., 630 Power Building.
Tuscaloosa, Ala., Post Office Building.
Indianapolis, Ind., 315 Federal Building.
Lansing, Mich., 320 Old State Office Building.
Columbus, Ohio, Engineering Experiment Station, Ohio State University.
Chicago, Ill., 1503 Consumers Building.
Madison, Wis., 337N State Capitol.
St. Paul, Minn., 202 Old State Capitol.
Topeka, Kans, 23 Federal Building.
Rolla, Mo., Rolla Building, School of Mines and Metallurgy.
Fort Smith, Ark., Post Office Building.
Austin, Tex., State Capitol.
Tuscon, Ariz., 210 Post Office Building.
Denver, Colo., 403 Post Office Building.
Salt Lake City, Utah, 313 Federal Building.
Idaho Falls, Idaho, 228 Federal Building.
Boise, Idaho, Federal Building.
Helena, Mont., 415 Power Building.
Tacoma, Wash., 406 Federal Building.
Portland, Oreg., 606 Post Office Building.
San Francisco, Calif., 303 Customhouse.
Los Angeles, Calif., 751 South Figueroa Street.
Honolulu, Hawaii, Territorial Office Building.

A list of the Geological Survey's publications may be obtained by applying to the Director, United States Geological Survey, Washington, D. C.

Stream-flow records have been obtained at about 5,330 points in the United States, and the data obtained have been published in the reports tabulated below.

*Stream-flow data in reports of the United States Geological Survey*

[A = Annual Report; B = Bulletin; W = Water-Supply Paper]

| Report | Character of data | Year |
|---|---|---|
| 10th A, pt. 2 | Descriptive information only | |
| 11th A, pt. 2 | Monthly discharge and descriptive information | 1884 to Sept., 1890. |
| 12th A, pt. 2 | do | 1884 to June 30, 1891. |
| 13th A, pt. 3 | Mean discharge in second-feet | 1884 to Dec. 31, 1892. |
| 14th A, pt. 2 | Monthly discharge (long-time records, 1871 to 1893) | 1888 to Dec. 31, 1893. |
| B 131 | Descriptions, measurements, gage heights, and ratings | 1893 and 1894. |

*Stream-flow data in reports of the United States Geological Survey*—Continued

| Report | Character of data | Year |
|---|---|---|
| 16th A, pt. 2 | Descriptive information only | |
| B 140 | Descriptions, measurements, gage heights, ratings, and monthly discharge (also many data covering earlier years). | 1895. |
| W 11 | Gage heights (also gage heights for earlier years) | 1896. |
| 18th A, pt. 4 | Descriptions, measurements, ratings, and monthly discharge (also similar data for some earlier years). | 1895 and 1896. |
| W 15 | Descriptions, measurements, and gage heights eastern United States, eastern Mississippi River, and Missouri River above junction with Kansas. | 1897. |
| W 16 | Descriptions, measurements, and gage heights, western Mississippi River below junction of Missouri and Platte, and western United States. | 1897. |
| 19th A, pt. 4 | Descriptions, measurements, ratings, and monthly discharge (also some long-time records). | 1897. |
| W 27 | Measurements, ratings, and gage heights, eastern United States, eastern Mississippi River, and Missouri River. | 1898. |
| W 28 | Measurements, ratings, and gage heights, Arkansas River, and western United States. | 1898. |
| 20th A, pt. 4 | Monthly discharge (also for many earlier years) | 1898. |
| W 35 to 39 | Descriptions, measurements, gage heights, and ratings | 1899. |
| 21st A, pt. 4 | Monthly discharge | 1899. |
| W 47 to 52 | Descriptions, measurements, gage heights and ratings | 1900. |
| 22d A, pt. 4 | Monthly discharge | 1900. |
| W 65, 66 | Descriptions, measurements, gage heights, and ratings | 1901. |
| W 75 | Monthly discharge | 1901. |
| W 82 to 85 | Complete data | 1902. |
| W 97 to 100 | do | 1903. |
| W 124 to 135 | do | 1904. |
| W 165 to 178 | do | 1905. |
| W 201 to 214 | do | 1906. |
| W 241 to 252 | do | 1907–8. |
| W 261 to 272 | do | 1909. |
| W 281 to 292 | do | 1910. |
| W 301 to 312 | od | 1911. |
| W 321 to 332 | do | 1912. |
| W 351 to 362 | do | 1913. |
| W 381 to 394 | do | 1914. |
| W 401 to 414 | do | 1915. |
| W 431 to 444 | do | 1916. |
| W 451 to 464 | do | 1917. |
| W 471 to 484 | do | 1918. |
| W 501 to 514 | do | 1919 and 1920. |
| W 521 to 534 | do | 1921. |
| W 541 to 554 | do | 1922. |
| W 561 to 574 | do | 1923. |
| W 581 to 594 | do | 1924. |
| W 601 to 614 | do | 1925. |
| W 621 to 634 | do | 1926. |
| W 641 to 654 | do | 1927. |

The records at most of the stations discussed in these reports extend over a series of years. Miscellaneous measurements at many points other than regular gaging stations have been made each year and are published under "Miscellaneous measurements" at the end of each report in the same relative order as the regular gaging stations. An index of the reports containing records obtained prior to 1904 has been published in Water-Supply Paper 119.

The following table gives, by years and drainage basins, the numbers of the papers on surface-water supply published from 1899 to 1927. The data for any particular station will be found in the reports covering the years during which the station was maintained. For example, data from 1910 to 1920 for any station in the area covered by Part III are published in Water-Supply Papers 283, 303, 323, 353, 383, 403, 433, 453, 473, and 503, which contain records for the Ohio River Basin for those years.

*Numbers of water-supply papers containing results of stream measurements, 1899–1927*

[For basins included see p. 6]

| Year | I | II | III | IV | V | VI | VII | VIII | IX | X | XI | XII-A | XII-B | XII-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1899 [a] | 35 | [b] 35, 36 | 36 | 36 | 36 | [c] 36, 37 | 37 | 37 | [d] 37, 38 | 38, [e] 39 | 38, [f] 39 | 38 | 38 | 38 |
| 1900 [g] | 47, [h] 48 | 48 | 48, [i] 49 | 49 | 49 | 49, [j] 50 | 50 | 50 | 50 | 51 | 51 | 51 | 51 | 51 |
| 1901 | 65, 75 | 65, 75 | 65, 75 | 65. 75 | [k] 65, 66, 75 | 66. 75 | [k] 65, 66, 75 | 66, 75 | 66, 75 | 66, 75 | 66, 75 | 66, 75 | 66, 75 | 66, 75 |
| 1902 | 82 | [b] 82, 83 | 83 | [l] 82, 83 | [k] 83, 85 | 84 | [k] 83, 84 | 84 | 85 | 85 | 85 | 85 | 85 | 85 |
| 1903 | 97 | [b] 97, 98 | 98 | 97 | [k] 98, 99, [m] 100 | 99 | [k] 98, 99 | 99 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1904 | [n] 124, [o] 125 [p] 126 | [p] 126, 127 | 128 | 129 | [k] 128. 130 | 130, [q] 131 | [k] 128, 131 | 132 | 133 | 133, [r] 134 | 134 | 135 | 135 | 135 |
| 1905 | [n] 165, [o] 166 [p] 167 | [p] 167, 168 | 169 | 170 | 171 | 172 | [k] 169, 173 | 174 | 175, [s] 177 | 176, [r] 177 | 177 | 178 | 178 | [t] 177, 178 |
| 1906 | [n] 201, [o] 202 [p] 203 | [p] 203, 204 | 205 | 206 | 207 | 208 | [k] 205, 209 | 210 | 211 | 212, [r] 213 | 213 | 214 | 214 | 214 |
| 1907–8 | 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250, [r] 251 | 251 | 252 | 252 | 252 |
| 1909 | 261 | 262 | 263 | 264 | 265 | 266 | 267 | 268 | 269 | 270, [r] 271 | 271 | 272 | 272 | 272 |
| 1910 | 281 | 282 | 283 | 284 | 285 | 286 | 287 | 288 | 289 | 290 | 291 | 292 | 292 | 292 |
| 1911 | 301 | 302 | 303 | 304 | 305 | 306 | 307 | 308 | 309 | 310 | 311 | 312 | 312 | 312 |
| 1912 | 321 | 322 | 323 | 324 | 325 | 326 | 327 | 328 | 329 | 330 | 331 | 332-A | 332-B | 332-C |
| 1913 | 351 | 352 | 353 | 354 | 355 | 356 | 357 | 358 | 359 | 360 | 361 | 362-A | 362-B | 362-C |
| 1914 | 381 | 382 | 383 | 384 | 385 | 386 | 387 | 388 | 389 | 390 | 391 | 392 | 393 | 394 |
| 1915 | 401 | 402 | 403 | 404 | 405 | 406 | 407 | 408 | 409 | 410 | 411 | 412 | 413 | 414 |
| 1916 | 431 | 432 | 433 | 434 | 435 | 436 | 437 | 438 | 439 | 440 | 441 | 442 | 443 | 444 |
| 1917 | 451 | 452 | 453 | 454 | 455 | 456 | 457 | 458 | 459 | 460 | 461 | 462 | 463 | 464 |
| 1918 | 471 | 472 | 473 | 474 | 475 | 476 | 477 | 478 | 479 | 480 | 481 | 482 | 483 | 484 |
| 1919–20 | 501 | 502 | 503 | 504 | 505 | 506 | 507 | 508 | 509 | 510 | 511 | 512 | 513 | 514 |
| 1921 | 521 | 522 | 523 | 524 | 525 | 526 | 527 | 528 | 529 | 530 | 531 | 532 | 533 | 534 |
| 1922 | 541 | 542 | 543 | 544 | 545 | 546 | 547 | 548 | 549 | 550 | 551 | 552 | 553 | 554 |
| 1923 | 561 | 562 | 563 | 564 | 565 | 566 | 567 | 568 | 569 | 570 | 571 | 572 | 573 | 574 |
| 1924 | 581 | 582 | 583 | 584 | 585 | 586 | 587 | 588 | 589 | 590 | 591 | 592 | 593 | 594 |
| 1925 | 601 | 602 | 603 | 604 | 605 | 606 | 607 | 608 | 609 | 610 | 611 | 612 | 613 | 614 |
| 1926 | 621 | 622 | 623 | 624 | 625 | 626 | 627 | 628 | 629 | 630 | 631 | 632 | 633 | 634 |
| 1927 | 641 | 642 | 643 | 644 | 645 | 646 | 647 | 648 | 649 | 650 | 651 | 652 | 653 | 654 |

[a] Rating tables and index to Water-Supply Papers 35–39 contained in Water-Supply Paper 39. Tables of monthly discharge for 1899 in Twenty-first Annual Report, Part IV.
[b] James River only.
[c] Gallatin River
[d] Green and Gunnison Rivers and Grand River above junction with Gunnison.
[e] Mohave River only.
[f] Kings and Kern Rivers and south Pacific slope basins.
[g] Rating tables and index to Water-Supply Papers 47–52 and data on precipitation, wells, and irrigation in California and Utah contained in Water-Supply Paper 52. Tables of monthly discharge for 1900 in Twenty second Annual Report, Part IV.
[h] Wissahickon and Schuylkill Rivers to James River.
[i] Scioto River.
[j] Loup and Platte Rivers near Columbus, Nebr., and all tributaries below junction with Platte.
[k] Tributaries of Mississippi from east.
[l] Lake Ontario and tributaries to St. Lawrence River proper.
[m] Hudson Bay only.
[n] New England rivers only.
[o] Hudson River to Delaware River, inclusive.
[p] Susquehanna River to Yadkin River, inclusive.
[q] Platte and Kansas Rivers.
[r] Great Basin in California, except Truckee and Carson River Basins.
[s] Below junction with Gila.
[t] Rogue, Umpqua, and Siletz Rivers only.

## COOPERATION

The work in Arizona, Utah, and Wyoming was carried on under cooperative agreements between the United States Geological Survey and the States. Special acknowledgments are due to the cooperating State officials, Frank P. Trott, State water commissioner of Arizona; George M. Bacon, State engineer of Utah; and John A. Whiting, State engineer of Wyoming.

The State engineer of Colorado, M. C. Hinderlider, furnished field data for some stations in Colorado and complete records for other stations.

The State of California also furnished financial assistance for work on the Colorado River in Arizona.

Acknowledgments are due to the United States Weather Bureau, United States Bureau of Reclamation, and United States Indian Service for financial assistance and cooperation.

Financial assistance for the work in Arizona was furnished by John L. Fish, city of Los Angeles, the Palo Verde Irrigation District, and the Southern California Edison Co.

Valuable assistance in the collection of data in Wyoming was rendered by the Best Flume & Power Co. and the Eden Irrigation Project, and in Utah by the Utah Power & Light Co.

## DIVISION OF WORK

Data for stations in Arizona were collected and prepared for publication under the direction of W. E. Dickinson, district engineer, who was assisted by D. A. Dudley, J. H. Gardiner, D. H. Barber, J. A. Baumgartner, W. E. Code, K. C. McCarter, A. H. Williams, J. E. Klohr, F. B. Dodge, and O. R. Clark.

Data in Wyoming and Colorado were collected and prepared for publication under the direction of Robert Follansbee, district engineer, who was assisted by P. V. Hodges and Miss Nellie Esterly.

Data for stations in Utah were collected and prepared for publication under the direction of A. B. Purton, district engineer, who was assisted by M. T. Wilson, D. M. Corbett, J. A. Allis, J. B. Ringwood, and Miss Lysle Christensen.

The records were reviewed and manuscript assembled by P. R. Speer.

# GAGING-STATION RECORDS

## COLORADO RIVER BASIN

### COLORADO RIVER AND TRIBUTARIES ABOVE GREEN RIVER

#### COLORADO RIVER AT HOT SULPHUR SPRINGS, COLO.

LOCATION.—Chain gage in sec. 2, T. 1 N., R. 78 W., at Hot Sulphur Springs.
DRAINAGE AREA.—785 square miles.
RECORDS AVAILABLE.—July, 1904, to September, 1909; September, 1910, to September, 1924; October, 1925, to September, 1927.
EXTREMES.—Maximum discharge during year, 4,580 second-feet May 22 (gage height, 6.75 feet); minimum occurred during winter.
1904–1909, 1910–1924, 1926–27: Maximum discharge, 10,300 second-feet June 15, 1921 (gage height, 8.7 feet); minimum, 63 second-feet February 25 and 26, 1908.
REMARKS.—Records good except for period of missing gage heights, November 16 to April 9, for which they are fair. Diversions for irrigation above station.

*Daily discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|
| 1 | 163 | 149 | 280 | 1,600 | 2,200 | 1,870 | 683 | 355 |
| 2 | 163 | 115 | 250 | 1,950 | 2,320 | 1,620 | 734 | 338 |
| 3 | 196 | 125 | 400 | 2,100 | 2,320 | 1,540 | 883 | 304 |
| 4 | 239 | 85 | 280 | 1,980 | 2,040 | 1,580 | 774 | 292 |
| 5 | 212 | 219 | 280 | 1,860 | 1,970 | 1,540 | 655 | 284 |
| 6 | 212 | 122 | 370 | 1,830 | 2,020 | 1,530 | 588 | 259 |
| 7 | 215 | 193 | 440 | 2,180 | 2,260 | 1,420 | 717 | 284 |
| 8 | 219 | 231 | 435 | 2,560 | 3,080 | 1,320 | 728 | 275 |
| 9 | 288 | 120 | 435 | 1,860 | 3,450 | 1,290 | 848 | 279 |
| 10 | 292 | 100 | 431 | 1,710 | 3,610 | 1,480 | 768 | 279 |
| 11 | 263 | 150 | 436 | 1,660 | 3,420 | 1,350 | 705 | 267 |
| 12 | 239 | 175 | 436 | 1,630 | 3,330 | 1,170 | 638 | 255 |
| 13 | 223 | 160 | 247 | 1,610 | 3,270 | 1,050 | 610 | 292 |
| 14 | 208 | 148 | 318 | 1,750 | 2,910 | 1,020 | 533 | 288 |
| 15 | 196 | 135 | 243 | 1,860 | 2,980 | 912 | 528 | 284 |
| 16 | 189 | | 247 | 2,480 | 2,580 | 842 | 485 | 259 |
| 17 | 181 | | 223 | 3,380 | 2,430 | 762 | 448 | 251 |
| 18 | 181 | 148 | 288 | 4,130 | 3,150 | 762 | 419 | 243 |
| 19 | 163 | | 364 | 4,170 | 3,270 | 711 | 404 | 219 |
| 20 | 160 | | 374 | 4,130 | 3,010 | 672 | 395 | 227 |
| 21 | 167 | | 212 | 4,130 | 2,880 | 666 | 386 | 204 |
| 22 | 156 | | 310 | 4,450 | 2,380 | 825 | 381 | 212 |
| 23 | 153 | 200 | 446 | 4,310 | 2,200 | 819 | 368 | 247 |
| 24 | 149 | | 422 | 3,750 | 2,350 | 883 | 377 | 251 |
| 25 | 146 | | 606 | 2,980 | 2,660 | 694 | 386 | 346 |
| 26 | 139 | | 797 | 3,150 | 2,530 | 605 | 404 | 381 |
| 27 | 142 | | 1,030 | 2,820 | 3,040 | 605 | 428 | 359 |
| 29 | 146 | 200 | 1,370 | 3,110 | 2,910 | 672 | 433 | 355 |
| 29 | 149 | | 1,430 | 3,080 | 2,940 | 689 | 409 | 359 |
| 30 | 125 | | 1,530 | 2,500 | 2,480 | 900 | 472 | 346 |
| 31 | 129 | | | 2,240 | | 768 | 472 | |

*Monthly discharge of Colorado River at Hot Sulphur Springs, Colo., 1926–27*

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 292 | 125 | 187 | 11,500 |
| November | 231 | ---------- | 166 | 9,880 |
| December | ---------- | ---------- | 138 | 8,480 |
| January | ---------- | ---------- | 100 | 6,150 |
| February | ---------- | ---------- | 95 | 5,280 |
| March | ---------- | ---------- | 126 | 7,750 |
| April | 1,530 | 223 | 498 | 29,600 |
| May | 4,450 | 1,600 | 2,680 | 165,000 |
| June | 3,610 | 1,970 | 2,730 | 162,000 |
| July | 1,870 | 605 | 1,050 | 64,600 |
| August | 883 | 368 | 550 | 33,800 |
| September | 381 | 204 | 286 | 17,000 |
| The year | 4,450 | ---------- | 720 | 521,000 |

### COLORADO RIVER AT GLENWOOD SPRINGS, COLO.

LOCATION.—Water-stage recorder in sec. 9, T. 6 S., R. 89 W., at Glenwood Springs, half a mile above mouth of Roaring Fork.

DRAINAGE AREA.—4,560 square miles.

RECORDS AVAILABLE.—January, 1900, to September, 1927. From May to July, 1899, at point just above Roaring Fork.

EXTREMES.—Maximum discharge during year, 18,400 second-feet May 22 (gage height, 9.83 feet); minimum, 208 second-feet December 31 (gage height, 2.14 feet).

1900–1927: Maximum discharge, 30,100 second-feet June 14 and 15, 1918 (gage height, 12.55 feet); minimum, 80 second-feet February 6, 1921 (gage height, 1.6 feet).

REMARKS.—Records excellent. Diversions for irrigation above station.

*Daily discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 862 | 862 | 1,210 | 584 | 690 | 756 | 1,920 | 6,690 | 10,600 | 9,570 | 3,090 | 2,100 |
| 2 | 928 | 880 | 1,060 | 612 | 735 | 716 | 1,680 | 7,610 | 10,600 | 7,930 | 3,090 | 1,980 |
| 3 | 1,040 | 946 | 966 | 652 | 719 | 710 | 1,800 | 8,570 | 11,000 | 7,300 | 3,500 | 1,860 |
| 4 | 1,040 | 946 | 1,080 | 698 | 720 | 743 | 2,340 | 8,900 | 10,200 | 6,990 | 3,610 | 1,680 |
| 5 | 1,080 | 918 | 1,060 | 793 | 695 | 625 | 2,100 | 8,900 | 9,570 | 7,300 | 3,090 | 1,570 |
| 6 | 1,100 | 880 | 982 | 785 | 695 | 725 | 1,800 | 8,570 | 9,570 | 7,300 | 2,750 | 1,570 |
| 7 | 1,100 | 890 | 1,080 | 751 | 701 | 820 | 1,980 | 8,900 | 10,200 | 6,690 | 2,830 | 1,510 |
| 8 | 1,110 | 1,090 | 1,100 | 844 | 678 | 728 | 2,280 | 9,910 | 11,300 | 6,100 | 3,500 | 1,510 |
| 9 | 1,120 | 899 | 1,080 | 707 | 626 | 838 | 2,280 | 9,910 | 12,800 | 5,810 | 4,070 | 1,510 |
| 10 | 1,210 | 734 | 982 | 757 | 583 | 739 | 2,040 | 8,250 | 14,000 | 6,100 | 4,320 | 1,570 |
| 11 | 1,290 | 782 | 812 | 684 | 581 | 716 | 2,220 | 7,300 | 14,400 | 6,540 | 3,610 | 1,510 |
| 12 | 1,270 | 871 | 694 | 652 | 620 | 730 | 2,160 | 6,990 | 14,000 | 5,530 | 3,190 | 1,510 |
| 13 | 1,200 | 995 | 570 | 730 | 643 | 609 | 1,980 | 7,610 | 13,200 | 4,970 | 3,000 | 1,570 |
| 14 | 1,160 | 1,020 | 573 | 739 | 748 | 757 | 1,740 | 7,610 | 12,400 | 4,570 | 2,830 | 1,620 |
| 15 | 1,080 | 975 | 419 | 706 | 759 | 752 | 1,620 | 8,900 | 12,400 | 4,190 | 2,680 | 1,740 |
| 16 | 985 | 899 | 475 | 691 | 703 | 823 | 1,510 | 10,200 | 12,400 | 3,950 | 2,680 | 1,620 |
| 17 | 1,110 | 890 | 554 | 722 | 723 | 602 | 1,400 | 12,400 | 11,300 | 3,610 | 2,610 | 1,510 |
| 18 | 1,110 | 790 | 632 | 713 | 648 | 840 | 1,330 | 15,200 | 12,000 | 3,400 | 2,410 | 1,570 |
| 19 | 758 | 799 | 631 | 720 | 537 | 743 | 1,380 | 16,500 | 12,800 | 3,190 | 2,280 | 1,460 |
| 20 | 985 | 899 | 782 | 706 | 744 | 602 | 1,620 | 17,000 | 13,200 | 3,090 | 2,220 | 1,510 |
| 21 | 975 | 985 | 590 | 741 | 762 | 667 | 1,740 | 17,400 | 12,400 | 3,090 | 2,100 | 1,340 |
| 22 | 975 | 1,110 | 738 | 736 | 698 | 750 | 1,740 | 17,800 | 11,000 | 3,190 | 2,100 | 1,320 |
| 23 | 975 | 1,100 | 707 | 692 | 744 | 680 | 1,740 | 17,800 | 10,200 | 3,400 | 2,100 | 1,340 |
| 24 | 937 | 1,100 | 583 | 709 | 726 | 740 | 1,920 | 16,500 | 10,200 | 3,500 | 1,980 | 1,400 |
| 25 | 928 | 1,120 | 485 | 642 | 707 | 808 | 2,160 | 14,000 | 10,600 | 3,400 | 2,040 | 1,620 |
| 26 | 908 | 1,110 | 542 | 650 | 693 | 1,010 | 2,610 | 13,200 | 10,600 | 3,000 | 2,040 | 1,740 |
| 27 | 890 | 1,100 | 528 | 698 | 908 | 1,170 | 3,400 | 12,800 | 11,000 | 2,830 | 2,220 | 1,980 |
| 28 | 890 | 1,100 | 564 | 731 | 803 | 1,280 | 4,700 | 12,800 | 11,300 | 3,000 | 2,340 | 1,920 |
| 29 | 853 | 1,040 | 512 | 714 | ------- | 1,330 | 5,390 | 12,400 | 11,300 | 3,190 | 2,410 | 1,800 |
| 30 | 995 | 975 | 506 | 672 | ------- | 1,740 | 5,810 | 11,700 | 10,600 | 3,400 | 2,340 | 1,800 |
| 31 | 908 | ------- | 588 | 640 | ------- | 1,920 | ------- | 10,600 | --------- | 3,400 | 2,160 | ------- |

*Monthly discharge of Colorado River at Glenwood Springs, Colo., 1926–27*

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 1,290 | 758 | 1,020 | 62,700 |
| November | 1,120 | 734 | 957 | 56,900 |
| December | 1,210 | 419 | 745 | 45,800 |
| January | 844 | 584 | 706 | 43,400 |
| February | 908 | 537 | 700 | 38,900 |
| March | 1,920 | 602 | 860 | 52,900 |
| April | 5,810 | 1,330 | 2,280 | 136,000 |
| May | 17,800 | 6,690 | 11,400 | 701,000 |
| June | 14,400 | 9,570 | 11,600 | 690,000 |
| July | 9,570 | 2,830 | 4,820 | 296,000 |
| August | 4,320 | 1,980 | 2,750 | 169,000 |
| September | 2,100 | 1,320 | 1,620 | 96,400 |
| The year | 17,800 | 419 | 3,300 | 2,390,000 |

### COLORADO RIVER NEAR PALISADE, COLO.

LOCATION.—Chain gage in sec. 2, T. 11 S., R. 98 W., 2 miles above Palisade and 6 miles below mouth of Plateau Creek.

DRAINAGE AREA.—8,790 square miles.

RECORDS AVAILABLE.—April, 1902, to September, 1927.

EXTREMES.—Maximum discharge during year, 31,300 second-feet May 20 and 22 (gage height, 21.3 feet); minimum, 1,150 second-feet several days during February and March (gage height, 12.1 feet).

1902–1927: Maximum discharge, 52,400 second-feet June 16, 1921 (gage height, 24.4 feet); minimum, 630 second-feet September 2, 1924 (gage height, 11.4 feet).

REMARKS.—Discharge estimated December 17 to February 15. Principal diversion between Glenwood Springs and Palisade is the Government High-line Canal (capacity, 1,425 second-feet). Enough of the water diverted for power is returned to the river to supply a priority of 521 second-feet for the Grand Valley Canal. Complete records furnished by Bureau of Reclamation.

*Daily discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1,480 | 1,150 | 1,580 | | 1,760 | 2,620 | 11,400 | 18,600 | 18,200 | 5,140 | 2,780 |
| 2 | 1,230 | 1,230 | 1,700 | | 1,760 | 2,620 | 12,600 | 18,800 | 15,200 | 4,700 | 2,620 |
| 3 | 1,700 | 1,280 | 1,640 | | 1,760 | 2,460 | 14,700 | 19,200 | 13,800 | 7,300 | 2,460 |
| 4 | 1,820 | 1,320 | 1,640 | | 1,940 | 2,620 | 16,000 | 18,600 | 13,100 | 6,880 | 2,320 |
| 5 | 1,480 | 1,420 | 1,480 | | 1,580 | 2,700 | 15,400 | 17,600 | 13,200 | 6,340 | 2,180 |
| 6 | 1,480 | 1,530 | 1,940 | | 1,530 | 2,700 | 14,800 | 17,400 | 12,700 | 5,600 | 2,390 |
| 7 | 1,580 | 1,530 | 2,060 | | 1,580 | 2,780 | 15,400 | 18,000 | 12,000 | 5,960 | 2,180 |
| 8 | 1,700 | 1,480 | 2,120 | 1,[illegible]50 | 1,700 | 3,030 | 16,200 | 20,300 | 11,000 | 5,840 | 2,180 |
| 9 | 2,000 | 1,530 | 1,940 | | 1,580 | 3,030 | 16,400 | 24,000 | 10,200 | 6,210 | 2,320 |
| 10 | 1,880 | 1,530 | 1,580 | | 1,370 | 3,030 | 14,100 | 24,800 | 10,200 | 6,880 | 2,860 |
| 11 | 1,820 | 1,420 | 1,420 | | 1,230 | 3,300 | 11,400 | 26,000 | 11,700 | 5,960 | 2,700 |
| 12 | 1,880 | 1,480 | 1,370 | | 1,370 | 2,940 | 10,600 | 25,300 | 10,700 | 5,600 | 3,030 |
| 13 | 1,820 | 1,760 | 1,280 | | 1,480 | 2,620 | 10,700 | 24,500 | 9,580 | 5,360 | 3,580 |
| 14 | 1,760 | 1,760 | 1,230 | | 1,280 | 2,460 | 11,900 | 23,500 | 8,640 | 4,810 | 4,920 |
| 15 | 1,700 | 1,700 | 1,110 | | 1,370 | 2,180 | 14,300 | 24,500 | 7,740 | 4,280 | 3,680 |
| 16 | 1,480 | 1,760 | 1,190 | 1,480 | 1,420 | 1,940 | 17,600 | 25,000 | 7,160 | 4,080 | 3,390 |
| 17 | 1,480 | 1,700 | | 1,530 | 1,480 | 1,940 | 22,100 | 20,800 | 6,600 | 4,080 | 3,030 |
| 18 | 1,530 | 1,640 | | 1,640 | 1,320 | 1,820 | 27,400 | 21,200 | 5,960 | 3,580 | 2,620 |
| 19 | 1,480 | 1,640 | | 1,280 | 1,230 | 1,880 | 30,100 | 24,000 | 5,480 | 3,120 | 2,860 |
| 20 | 1,370 | 1,640 | | 1,150 | 1,150 | 1,940 | 30,400 | 24,300 | 5,140 | 2,780 | 2,460 |
| 21 | 1,370 | 1,640 | | 1,230 | 1,190 | 2,250 | 29,600 | 23,300 | 5,250 | 2,700 | 2,540 |
| 22 | 1,420 | 1,580 | | 1,420 | 1,480 | 2,320 | 30,400 | 20,500 | 5,360 | 2,540 | 2,320 |
| 23 | 1,320 | 1,640 | | 1,580 | 1,580 | 2,390 | 29,900 | 19,000 | 5,600 | 2,540 | 2,460 |
| 24 | 1,320 | 1,700 | 1,150 | 1,760 | 1,700 | 2,860 | 27,400 | 18,400 | 5,720 | 2,320 | 2,540 |
| 25 | 1,280 | 1,880 | | 1,880 | 1,580 | 3,120 | 24,500 | 19,000 | 5,360 | 2,120 | 3,980 |
| 26 | 1,320 | 1,940 | | 1,940 | 1,420 | 4,180 | 23,500 | 19,200 | 4,920 | 2,320 | 3,980 |
| 27 | 1,370 | 1,880 | | 1,820 | 1,760 | 5,360 | 23,000 | 20,100 | 4,500 | 3,030 | 3,210 |
| 28 | 1,280 | 2,000 | | 1,760 | 1,820 | 7,160 | 22,300 | 22,800 | 5,360 | 3,980 | 3,120 |
| 29 | 1,230 | 1,820 | | ------- | 2,000 | 9,100 | 20,300 | 24,300 | 4,810 | 3,480 | 3,300 |
| 30 | 1,150 | 1,640 | | ------- | 2,180 | 9,580 | 20,300 | 21,400 | 5,600 | 3,300 | 3,210 |
| 31 | 1,110 | ------- | | ------- | 2,460 | ------- | 18,600 | ------- | 5,140 | 3,120 | ------- |

*Monthly discharge of Colorado River near Palisade, Colo., 1926–27*

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 2,000 | 1,110 | 1,510 | 92,800 |
| November | 2,000 | 1,150 | 1,610 | 95,800 |
| December | ---------- | ---------- | 1,370 | 84,200 |
| January | ---------- | ---------- | 1,250 | 76,900 |
| February | ---------- | ---------- | 1,400 | 77,800 |
| March | 2,460 | 1,150 | 1,580 | 97,200 |
| April | 9,580 | 1,820 | 3,300 | 196,000 |
| May | 30,400 | 10,600 | 19,500 | 1,200,000 |
| June | 26,000 | 17,400 | 21,500 | 1,280,000 |
| July | 18,200 | 4,500 | 8,580 | 528,000 |
| August | 7,300 | 2,120 | 4,390 | 270,000 |
| September | 4,920 | 2,180 | 2,910 | 173,000 |
| The year | 30,400 | ---------- | 5,750 | 4,170,000 |

*Monthly discharge of Government High-line Canal above Palisade, Colo., 1926–27*

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 637 | 415 | 465 | 28,600 |
| November | 439 | 0 | 95.8 | 5,700 |
| December | 204 | 0 | 41.7 | 2,560 |
| January | 153 | 0 | 16.5 | 1,010 |
| February | 153 | 0 | 21.0 | 1,170 |
| March | 336 | 0 | 48.8 | 3,000 |
| April | 734 | 336 | 479 | 28,500 |
| May | 938 | 780 | 893 | 54,900 |
| June | 911 | 664 | 813 | 48,400 |
| July | 982 | 823 | 887 | 54,500 |
| August | 947 | 0 | 660 | 40,600 |
| September | 672 | 477 | 559 | 33,300 |
| The year | 982 | 0 | 417 | 302,000 |

NOTE.—Monthly diversions through Government High-line Canal represent the total diversions from river immediately above station for irrigation in Grand Valley.

### COLORADO RIVER NEAR CISCO, UTAH

LOCATION.—Water-stage recorder in NW. ¼ sec. 17, T. 23 S., R. 24 E., 15 miles south of Cisco and 1 mile below mouth of Dolores River.

DRAINAGE AREA.—24,100 square miles.

RECORDS AVAILABLE.—November, 1914, to September, 1917; October, 1922, to September 1927. October 1913, to November, 1914, at Moab, 25 miles downstream; flow about same at both places.

EXTREMES.—Maximum discharge during year, 49,000 second-feet May 20 (gage height, 14.48 feet); minimum mean daily discharge, estimated 2,100 second-feet December 18.

1914–1917, 1922–1927: Maximum discharge, 76,800 second-feet June 19, 1917 (gage height, 19.7 feet); minimum, 844 second-feet September 3, 1924 (gage height, 1.14 feet).

REMARKS.—Records good except those for estimated periods, which are fair. Diversions for irrigation and power above station.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 3,400 | e2,650 | e3,100 | | | e3,100 | 6,840 | 29,300 | 28,000 | 36,000 | 8,380 | e5,200 |
| 2 | 2,580 | e2,700 | e3,050 | | e2,620 | e3,000 | 6,750 | 31,200 | 28,200 | 30,000 | 7,560 | e4,800 |
| 3 | 3,650 | e2,800 | e3,050 | | | 3,060 | 6,470 | 32,700 | 28,800 | 24,900 | 11,000 | e4,500 |
| 4 | 4,520 | e2,850 | 3,000 | | 2,700 | 4,790 | 7,330 | 33,600 | 28,400 | 22,200 | 9,820 | 4,300 |
| 5 | 4,130 | e2,950 | e3,000 | | e2,800 | 3,940 | 9,040 | 33,400 | 26,800 | 23,900 | 10,200 | 4,090 |
| 6 | 4,110 | e3,000 | 3,390 | | e3,000 | 3,790 | 10,500 | 32,300 | 25,800 | 20,700 | 9,360 | 3,920 |
| 7 | 3,960 | e3,000 | e3,500 | | 3,120 | 3,290 | 10,600 | 30,700 | 26,600 | 19,500 | 9,300 | 5,130 |
| 8 | 3,880 | e2,950 | e3,700 | | | 3,140 | 11,000 | 32,300 | 28,300 | 17,600 | 9,920 | 4,430 |
| 9 | 3,790 | e3,000 | e3,600 | e2,500 | | 3,240 | 11,100 | 33,000 | 31,200 | 16,100 | 10,800 | 4,700 |
| 10 | 3,770 | e2,950 | e3,500 | | e2,900 | 3,510 | 10,200 | 29,900 | 33,400 | 15,200 | 11,500 | 9,620 |
| 11 | 4,260 | e2,900 | e3,200 | | | 3,590 | 9,720 | 24,100 | 34,600 | 16,200 | 11,500 | 13,600 |
| 12 | 4,320 | e3,100 | e3,000 | | | 3,370 | 9,560 | 20,600 | 34,200 | 17,400 | 10,500 | 14,300 |
| 13 | 4,110 | e3,300 | e2,700 | | | 3,100 | 8,560 | 19,800 | 34,200 | 16,000 | 9,360 | 21,900 |
| 14 | 3,960 | e3,400 | e2,600 | | 2,470 | 2,840 | 7,380 | 21,000 | 34,200 | 13,900 | 9,010 | 17,300 |
| 15 | e3,810 | e3,300 | e2,500 | | | 2,750 | 6,920 | 25,300 | 34,000 | 12,600 | 8,040 | 14,100 |
| 16 | e3,660 | e3,200 | e2,300 | | | 2,990 | 6,360 | 29,900 | 36,200 | 11,400 | 7,440 | 11,900 |
| 17 | e3,510 | e3,100 | e2,200 | 2,880 | e2,800 | 2,990 | 5,800 | 34,200 | 35,400 | 10,300 | 7,380 | 10,500 |
| 18 | e3,360 | e3,050 | e2,100 | | | 3,060 | 5,400 | 40,800 | 31,900 | 9,590 | 6,920 | 9,360 |
| 19 | 3,220 | e3,050 | | | | 2,830 | 5,200 | 47,300 | 32,800 | 8,660 | 5,990 | 8,220 |
| 20 | 3,200 | e3,100 | e2,250 | e3,100 | | 2,970 | 6,640 | 48,400 | 34,600 | 8,010 | 5,300 | 8,040 |
| 21 | 3,100 | e3,100 | | | 2,930 | 2,750 | 7,530 | 47,300 | 34,200 | 7,920 | e4,000 | 7,590 |
| 22 | e3,050 | e3,150 | | | | 2,610 | 8,410 | 45,900 | 32,100 | 7,920 | e4,700 | 7,300 |
| 23 | e3,010 | e3,250 | | | | 2,630 | 9,070 | 45,500 | 29,700 | 8,500 | e4,800 | 7,800 |
| 24 | e2,970 | e3,300 | | 2,650 | | 2,880 | 10,500 | 42,400 | 27,900 | 8,750 | e4,600 | 8,100 |
| 25 | 2,930 | e3,400 | | | e3,100 | 2,930 | 12,600 | 37,500 | 27,400 | 8,780 | e4,500 | 11,300 |
| 26 | 2,830 | e3,500 | e2,360 | | | 2,930 | 14,800 | 34,000 | 2,7900 | 8,600 | e5,000 | 10,200 |
| 27 | 2,750 | e3,400 | | 2,600 | | 3,200 | 17,400 | 33,800 | 27,600 | 7,890 | e5,700 | 9,360 |
| 28 | e2,700 | e3,500 | | | 3,160 | 4,130 | 20,100 | 33,400 | 30,700 | 7,440 | e6,800 | 8,940 |
| 29 | e2,650 | e3,490 | | | | 4,820 | 24,100 | 32,800 | 39,100 | 8,410 | e6,700 | 8,320 |
| 30 | e2,620 | 3,300 | | | | 5,270 | 27,700 | 31,900 | 42,800 | 8,910 | e7,000 | 7,800 |
| 31 | e2,600 | | | 2,650 | | 5,750 | | 29,800 | | 9,070 | e6,000 | |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 4,520 | 2,580 | 3,430 | 211,000 |
| November | 3,500 | 2,650 | 3,120 | 186,000 |
| December | 3,700 | | 2,700 | 166,000 |
| January | | | 2,660 | 164,000 |
| February | | | 2,890 | 161,000 |
| March | 5,750 | 2,610 | 3,400 | 209,000 |
| April | 27,700 | 5,200 | 10,500 | 625,000 |
| May | 48,400 | 19,800 | 33,700 | 2,070,000 |
| June | 42,800 | 25,800 | 31,600 | 1,880,000 |
| July | 36,000 | 7,440 | 14,300 | 879,000 |
| August | 11,500 | 4,000 | 7,710 | 474,000 |
| September | 21,900 | 3,920 | 8,890 | 529,000 |
| The year | 48,400 | | 10,400 | 7,550,000 |

e Estimated.

### COLORADO RIVER AT LEES FERRY, ARIZ.

LOCATION.—Water-stage recorder at head of Marble Gorge, at Lees Ferry, Coconino County, a short distance above mouth of Paria River. Zero of gage is 3,106.35 feet above mean sea level.

RECORDS AVAILABLE.—June, 1921, to September , 1927.

EXTREMES.—Maximum discharge during year, 127,000 second-feet July 1 (gage height, 20.35 feet); minimum, 2,330 second-feet December 31 (gage height, 5.6 feet).

1921–1927: Maximum discharge, about 190,000 second-feet June 18, 1921 (gage height. 26.5 feet); minimum, 750 second-feet December 27, 1924 (gage height, 4.2 feet).

Elevation of flood of 1884 at mouth of Paria River, 3,137.1 feet above mean sea level.

REMARKS.—Records excellent. Diversions for about 1,500,000 acres above station.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 6,020 | 5,170 | 6,750 | 2,700 | 5,560 | 9,280 | 13,100 | 38,200 | 60,200 | 119,000 | 17,200 | 14,400 |
| 2 | 5,420 | 5,110 | 6,720 | 2,800 | 5,470 | 10,400 | 14,600 | 42,900 | 56,400 | 106,000 | 16,800 | 14,200 |
| 3 | 5,080 | 5,020 | 6,480 | 2,900 | 5,440 | 9,890 | 15,200 | 49,600 | 53,400 | 78,100 | 16,700 | 13,100 |
| 4 | 6,750 | 5,110 | 6,350 | 3,100 | 5,320 | 9,930 | 15,500 | 55,800 | 52,300 | 65,800 | 15,800 | 11,800 |
| 5 | 6,350 | 5,200 | 6,350 | 3,400 | 5,350 | 10,000 | 16,800 | 58,900 | 51,700 | 59,700 | 15,200 | 10,600 |
| 6 | 8,430 | 5,260 | 6,790 | 3,800 | 5,410 | 11,200 | 18,500 | 61,110 | 49,800 | 55,900 | 18,200 | 10,400 |
| 7 | 9,000 | 5,170 | 6,750 | 4,200 | 5,410 | 10,500 | 20,900 | 63,100 | 47,500 | 59,200 | 19,400 | 11,500 |
| 8 | 8,280 | 5,200 | 7,160 | 4,800 | 5,620 | 11,400 | 23,800 | 63,200 | 46,200 | 53,000 | 25,100 | 14,600 |
| 9 | 8,240 | 5,140 | 10,100 | 5,200 | 5,840 | 10,300 | 25,200 | 60,800 | 46,700 | 44,800 | 20,500 | 14,400 |
| 10 | 8,130 | 5,050 | 11,000 | 5,100 | 6,030 | 10,900 | 26,000 | 62,700 | 48,700 | 42,700 | 18,000 | 29,200 |
| 11 | 8,090 | 5,230 | 11,300 | 5,060 | 6,190 | 10,700 | 26,300 | 61,400 | 54,800 | 40,700 | 17,400 | 43,200 |
| 12 | 7,940 | 5,170 | 10,200 | 5,620 | 6,190 | 10,300 | 25,200 | 55,800 | 59,800 | 40,400 | 18,600 | 43,300 |
| 13 | 7,910 | 5,390 | 8,960 | 5,960 | 5,960 | 11,000 | 22,800 | 50,700 | 63,000 | 41,700 | 19,100 | 88,100 |
| 14 | 8,470 | 5,930 | 7,690 | 6,220 | 5,780 | 11,000 | 22,200 | 46,200 | 64,600 | 38,100 | 18,400 | 103,000 |
| 15 | 8,470 | 5,700 | 7,300 | 6,280 | 5,990 | 10,900 | 21,600 | 42,300 | 66,000 | 34,900 | 16,400 | 110,000 |
| 16 | 8,130 | 5,670 | 6,920 | 6,350 | 6,550 | 10,300 | 19,900 | 42,700 | 67,800 | 30,600 | 15,000 | 78,900 |
| 17 | 7,800 | 5,390 | 6,510 | 6,320 | 9,890 | 9,850 | 18,500 | 47,300 | 67,500 | 27,500 | 14,700 | 55,900 |
| 18 | 7,550 | 5,700 | 5,990 | 6,220 | 11,200 | 9,200 | 17,700 | 55,100 | 69,600 | 25,100 | 13,700 | 45,300 |
| 19 | 7,230 | 5,990 | 5,350 | 6,060 | 9,090 | 9,200 | 16,600 | 64,700 | 69,400 | 22,800 | 13,100 | 33,300 |
| 20 | 7,020 | 5,890 | 4,700 | 6,220 | 10,400 | 8,900 | 15,300 | 74,200 | 67,100 | 21,300 | 12,400 | 30,400 |
| 21 | 6,580 | 5,890 | 4,200 | 6,060 | 9,890 | 8,650 | 14,300 | 84,800 | 69,300 | 20,000 | 11,800 | 31,600 |
| 22 | 6,350 | 5,830 | 4,000 | 6,280 | 8,900 | 8,720 | 13,600 | 89,300 | 70,900 | 18,400 | 11,000 | 26,000 |
| 23 | 6,380 | 5,770 | 4,100 | 6,780 | 7,520 | 8,830 | 14,300 | 89,300 | 69,100 | 17,700 | 9,980 | 23,700 |
| 24 | 6,380 | 5,610 | 4,200 | 7,060 | 6,660 | 8,610 | 15,900 | 87,200 | 65,600 | 17,100 | 9,740 | 21,200 |
| 25 | 6,090 | 5,770 | 4,200 | 6,820 | 6,560 | 8,090 | 17,100 | 84,900 | 61,500 | 17,400 | 9,430 | 20,700 |
| 26 | 5,770 | 6,050 | 4,100 | 6,510 | 6,940 | 7,710 | 19,400 | 78,400 | 57,900 | 18,300 | 8,750 | 22,200 |
| 27 | 5,640 | 6,090 | 3,700 | 6,280 | 7,230 | 7,550 | 24,000 | 72,600 | 56,800 | 19,000 | 9,350 | 28,500 |
| 28 | 5,320 | 6,090 | 3,300 | 6,280 | 8,090 | 8,360 | 28,800 | 69,300 | 58,200 | 18,700 | 13,400 | 27,100 |
| 29 | 5,420 | 6,150 | 2,800 | 6,220 | ------- | 9,580 | 33,300 | 67,500 | 73,600 | 20,300 | 14,100 | 25,300 |
| 30 | 5,420 | 6,510 | 2,600 | 6,190 | ------- | 10,400 | 35,100 | 64,700 | 91,200 | 20,300 | 13,500 | 23,500 |
| 31 | 5,390 | ------- | 2,500 | 5,780 | ------- | 11,400 | ------- | 62,700 | ------- | 18,100 | 13,900 | ------- |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 9,000 | 5,080 | 6,950 | 427,000 |
| November | 6,510 | 5,020 | 5,580 | 332,000 |
| December | 11,300 | 2,500 | 6,130 | 377,000 |
| January | 7,060 | 2,700 | 5,440 | 334,000 |
| February | 11,200 | 5,320 | 6,950 | 386,000 |
| March | 11,400 | 7,550 | 9,780 | 601,000 |
| April | 35,100 | 13,100 | 20,400 | 1,210,000 |
| May | 89,300 | 38,200 | 62,800 | 3,860,000 |
| June | 91,200 | 46,200 | 61,200 | 3,640,000 |
| July | 119,000 | 17,100 | 39,100 | 2,400,000 |
| August | 25,100 | 8,750 | 15,100 | 928,000 |
| September | 110,000 | 10,400 | 34,200 | 2,040,000 |
| The year | 119,000 | 2,500 | 22,800 | 16,500,000 |

### COLORADO RIVER AT BRIGHT ANGEL CREEK, NEAR GRAND CANYON, ARIZ.

LOCATION.—Water-stage recorder at Kaibab Bridge, a quarter of a mile above Bright Angel Creek and 11 miles by trail northeast of Grand Canyon, Coconino County. Zero of gage is 2,420.3 feet above sea level.

RECORDS AVAILABLE.—October, 1922, to September, 1927.

EXTREMES.—Maximum discharge during year, 127,000 second-feet July 2 (gage height, 29.25 feet); minimum, 2,730 second-feet January 1 (gage height, 1.30 feet).

1922–1927: Maximum discharge, that of July 2, 1927; minimum, 700 second-feet December 28, 1924 (gage height, −0.70 foot).

REMARKS.—Records excellent. Diversions for about 1,500,000 acres of land above station.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 7,310 | 6,080 | 7,180 | 2,870 | 6,210 | 11,200 | 13,500 | 37,600 | 60,400 | 114,000 | 18,100 | 16,000 |
| 2 | 7,260 | 5,930 | 7,340 | 3,040 | 6,010 | 12,400 | 15,600 | 42,200 | 56,700 | 117,000 | 17,500 | 15,600 |
| 3 | 6,500 | 5,880 | 7,260 | 3,150 | 5,940 | 12,900 | 17,000 | 47,900 | 53,200 | 88,000 | 17,600 | 14,700 |
| 4 | 6,320 | 5,830 | 7,390 | 3,270 | 5,930 | 12,000 | 16,900 | 54,400 | 52,200 | 71,400 | 17,300 | 13,300 |
| 5 | 7,460 | 5,930 | 7,410 | 3,530 | 5,800 | 11,300 | 17,900 | 57,700 | 51,200 | 63,300 | 15,900 | 11,800 |
| 6 | 7,330 | 6,070 | 7,310 | 3,770 | 5,860 | 12,300 | 19,800 | 60,600 | 50,200 | 58,100 | 16,700 | 10,800 |
| 7 | 9,340 | 6,120 | 7,410 | 4,260 | 5,910 | 12,100 | 22,000 | 63,100 | 48,200 | 57,900 | 19,800 | 13,200 |
| 8 | 9,340 | 5,950 | 7,440 | 4,640 | 5,970 | 12,400 | 25,000 | 64,000 | 46,400 | 58,100 | 23,700 | 17,000 |
| 9 | 8,800 | 6,040 | 8,080 | 5,200 | 6,210 | 12,200 | 27,300 | 61,400 | 46,000 | 49,300 | 25,000 | 16,400 |
| 10 | 8,710 | 6,010 | 11,300 | 5,690 | 6,420 | 11,500 | 28,000 | 61,900 | 47,500 | 43,800 | 20,400 | 17,800 |
| 11 | 8,590 | 5,970 | 11,700 | 5,670 | 6,580 | 11,800 | 28,600 | 62,100 | 52,000 | 43,200 | 18,300 | 51,200 |
| 12 | 8,630 | 6,120 | 11,600 | 5,970 | 6,730 | 11,400 | 28,200 | 57,000 | 58,200 | 40,500 | 18,800 | 42,200 |
| 13 | 8,500 | 6,110 | 10,300 | 6,720 | 6,700 | 11,300 | 25,500 | 51,900 | 63,100 | 43,000 | 20,400 | 74,000 |
| 14 | 8,540 | 6,310 | 9,240 | 6,820 | 6,370 | 11,700 | 24,200 | 47,300 | 65,000 | 40,700 | 20,700 | 106,000 |
| 15 | 9,050 | 6,720 | 8,300 | 7,060 | 6,260 | 11,600 | 23,400 | 43,400 | 67,500 | 37,100 | 19,000 | 114,000 |
| 16 | 8,870 | 6,340 | 7,860 | 7,000 | 7,060 | 11,500 | 22,000 | 41,700 | 69,200 | 33,100 | 17,300 | 85,200 |
| 17 | 8,500 | 6,220 | 7,460 | 6,970 | 7,900 | 10,900 | 20,100 | 45,400 | 69,700 | 29,500 | 16,100 | 65,700 |
| 18 | 8,160 | 6,050 | 6,940 | 6,900 | 11,900 | 10,900 | 19,300 | 51,900 | 70,400 | 27,000 | 15,300 | 55,700 |
| 19 | 7,950 | 6,340 | 6,340 | 6,800 | 16,400 | 10,700 | 18,300 | 60,300 | 72,100 | 24,600 | 14,200 | 45,800 |
| 20 | 7,730 | 6,580 | 5,700 | 6,680 | 14,500 | 10,400 | 17,100 | 72,600 | 68,400 | 22,400 | 13,300 | 36,000 |
| 21 | 7,490 | 6,500 | 5,070 | 6,790 | 13,600 | 9,840 | 15,700 | 84,700 | 69,500 | 20,800 | 12,900 | 35,600 |
| 22 | 7,220 | 6,430 | 4,590 | 6,680 | 12,100 | 9,570 | 14,700 | 91,000 | 72,100 | 19,400 | 12,100 | 31,500 |
| 23 | 7,000 | 6,370 | 4,320 | 6,940 | 10,600 | 9,640 | 14,500 | 91,800 | 70,900 | 18,300 | 11,100 | 26,300 |
| 24 | 6,970 | 6,310 | 4,460 | 7,390 | 9,460 | 9,590 | 16,300 | 89,600 | 67,500 | 17,500 | 10,300 | 23,600 |
| 25 | 6,880 | 6,210 | 4,520 | 7,570 | 9,000 | 9,340 | 17,700 | 87,300 | 62,600 | 17,200 | 10,300 | 21,200 |
| 26 | 6,600 | 6,320 | 4,580 | 7,150 | 8,970 | 8,780 | 19,300 | 82,200 | 58,300 | 18,300 | 9,570 | 22,200 |
| 27 | 6,360 | 6,610 | 4,500 | 6,900 | 9,380 | 8,320 | 23,200 | 75,300 | 56,500 | 19,300 | 9,340 | 26,000 |
| 28 | 6,260 | 6,640 | 4,090 | 6,700 | 9,630 | 9,140 | 27,800 | 70,100 | 55,500 | 20,300 | 12,500 | 30,000 |
| 29 | 6,180 | 6,670 | 3,730 | 6,740 | ------- | 10,700 | 32,700 | 67,800 | 74,200 | 19,200 | 16,800 | 27,500 |
| 30 | 6,220 | 6,780 | 3,190 | 6,700 | ------- | 11,800 | 35,900 | 65,300 | 90,900 | 22,300 | 16,100 | 25,900 |
| 31 | 6,110 | ------- | 2,970 | 6,610 | ------- | 12,500 | ------- | 62,500 | ------- | 19,600 | 14,200 | ------- |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 9,340 | 6,110 | 7,620 | 469,000 |
| November | 6,780 | 5,830 | 6,250 | 372,000 |
| December | 11,700 | 2,970 | 6,760 | 416,000 |
| January | 7,570 | 2,870 | 5,880 | 362,000 |
| February | 16,400 | 5,800 | 8,340 | 463,000 |
| March | 12,900 | 8,320 | 11,000 | 676,000 |
| April | 35,900 | 13,500 | 21,600 | 1,290,000 |
| May | 91,800 | 37,600 | 63,000 | 3,870,000 |
| June | 90,900 | 46,000 | 61,500 | 3,660,000 |
| July | 117,000 | 17,200 | 41,100 | 2,530,000 |
| August | 25,000 | 9,340 | 16,100 | 990,000 |
| September | 114,000 | 10,800 | 36,400 | 2,170,000 |
| The year | 117,000 | 2,870 | 23,800 | 17,300,000 |

### COLORADO RIVER NEAR TOPOCK, ARIZ.

LOCATION.—Water-stage recorder at lower end of Mohave Canyon, 3 miles southeast of Topock, Mohave County. Zero of gage is 423.2 feet above mean sea level.

DRAINAGE AREA.—171,000 square miles.

RECORDS AVAILABLE.—February, 1917, to September, 1927.

EXTREMES.—Maximum discharge during year, 107,000 second-feet July 5 and September 17; maximum gage height, 22.2 feet July 5; minimum discharge, 3,350 second-feet January 6 (gage height, 6.12 feet).

1917–1927: Maximum discharge, 174,000 second-feet June 22, 1921; minimum, 1,800 second-feet January 4, 1925.

REMARKS.—Records excellent. Diversions for irrigation of about 1,500,000 acres above station.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 17,300 | 5,850 | 6,240 | 4,560 | 7,050 | 9,270 | 10,400 | 29,800 | 64,700 | 63,200 | 19,100 | 16,800 |
| 2 | 12,600 | 5,490 | 6,160 | 4,370 | 6,990 | 9,640 | 11,800 | 34,800 | 61,000 | 78,900 | 20,800 | 15,000 |
| 3 | 9,440 | 5,520 | 6,020 | 3,980 | 6,960 | 9,920 | 12,700 | 38,000 | 58,800 | 89,300 | 19,500 | 14,200 |
| 4 | 6,900 | 5,520 | 6,510 | 3,610 | 6,960 | 10,800 | 14,300 | 41,800 | 55,800 | 101,000 | 16,900 | 15,600 |
| 5 | 6,270 | 5,600 | 6,990 | 3,480 | 6,510 | 13,000 | 16,300 | 45,800 | 53,300 | 104,000 | 17,300 | 15,100 |
| 6 | 6,080 | 5,490 | 6,840 | 3,410 | 6,390 | 13,400 | 17,400 | 51,700 | 52,400 | 86,300 | 17,600 | 13,800 |
| 7 | 5,770 | 5,410 | 6,990 | 3,650 | 6,390 | 12,800 | 17,500 | 57,400 | 50,600 | 68,100 | 17,300 | 12,100 |
| 8 | 6,130 | 5,280 | 7,080 | 3,700 | 6,450 | 12,200 | 18,400 | 60,000 | 48,400 | 59,800 | 15,400 | 10,400 |
| 9 | 6,750 | 5,360 | 7,530 | 3,910 | 6,330 | 12,800 | 20,700 | 62,800 | 47,000 | 58,400 | 17,100 | 10,300 |
| 10 | 7,410 | 5,410 | 7,290 | 4,200 | 6,100 | 13,100 | 22,500 | 63,300 | 46,200 | 58,500 | 20,400 | 13,000 |
| 11 | 9,040 | 5,380 | 6,750 | 4,580 | 6,220 | 12,500 | 25,900 | 62,000 | 46,400 | 51,600 | 25,200 | 16,500 |
| 12 | 8,560 | 5,070 | 7,260 | 5,020 | 6,390 | 12,500 | 27,400 | 62,500 | 47,000 | 45,800 | 21,200 | 15,200 |
| 13 | 7,920 | 5,330 | 9,440 | 5,430 | 6,660 | 11,800 | 28,200 | 63,200 | 50,000 | 44,200 | 18,200 | 37,000 |
| 14 | 7,660 | 5,660 | 10,400 | 5,990 | 7,110 | 11,500 | 28,900 | 60,800 | 56,000 | 41,000 | 17,600 | 53,700 |
| 15 | 7,920 | 5,430 | 10,300 | 5,940 | 7,440 | 11,400 | 27,000 | 54,200 | 60,600 | 41,700 | 18,200 | 82,400 |
| 16 | 7,820 | 5,660 | 9,170 | 6,330 | 8,200 | 11,500 | 25,000 | 48,300 | 62,600 | 41,000 | 19,300 | 96,500 |
| 17 | 7,820 | 5,820 | 8,330 | 6,840 | 8,520 | 11,600 | 24,200 | 43,800 | 63,900 | 38,600 | 19,900 | 105,000 |
| 18 | 8,080 | 5,850 | 7,630 | 6,990 | 14,400 | 11,400 | 22,400 | 42,300 | 65,600 | 34,600 | 18,200 | 88,800 |
| 19 | 8,200 | 6,080 | 7,050 | 7,380 | 14,600 | 11,000 | 21,300 | 44,400 | 66,100 | 30,200 | 17,400 | 68,800 |
| 20 | 7,630 | 5,740 | 7,140 | 7,320 | 11,500 | 10,800 | 20,200 | 50,000 | 68,000 | 28,300 | 16,000 | 56,600 |
| 21 | 7,660 | 5,630 | 7,140 | 7,380 | 13,100 | 10,500 | 19,100 | 56,800 | 69,300 | 25,800 | 14,700 | 45,300 |
| 22 | 7,230 | 5,410 | 6,900 | 7,600 | 17,300 | 10,500 | 18,000 | 63,700 | 67,800 | 23,600 | 13,500 | 37,600 |
| 23 | 7,170 | 5,740 | 6,480 | 7,170 | 16,000 | 10,400 | 16,600 | 71,600 | 68,400 | 21,400 | 12,600 | 36,400 |
| 24 | 7,020 | 5,910 | 5,740 | 7,050 | 14,400 | 9,780 | 15,200 | 81,200 | 70,300 | 20,100 | 12,500 | 32,200 |
| 25 | 6,840 | 5,770 | 4,810 | 7,050 | 12,700 | 9,370 | 14,800 | 87,100 | 69,500 | 19,500 | 11,800 | 28,600 |
| 26 | 6,630 | 5,710 | 4,660 | 6,900 | 11,300 | 9,240 | 15,300 | 86,000 | 68,900 | 18,800 | 10,300 | 25,000 |
| 27 | 6,570 | 5,710 | 4,560 | 7,440 | 10,400 | 9,300 | 17,800 | 83,800 | 64,200 | 18,600 | 9,750 | 22,400 |
| 28 | 6,600 | 5,740 | 4,760 | 7,850 | 9,850 | 9,170 | 18,800 | 82,700 | 59,500 | 17,500 | 9,780 | 21,400 |
| 29 | 6,660 | 5,800 | 4,860 | 7,820 | ------- | 8,650 | 20,600 | 79,300 | 56,800 | 18,500 | 9,780 | 22,500 |
| 30 | 6,270 | 6,540 | 5,120 | 7,720 | ------- | 8,200 | 24,900 | 74,100 | 54,900 | 19,500 | 11,100 | 28,600 |
| 31 | 6,050 | ------- | 4,780 | 7,140 | ------- | 8,460 | ------- | 69,400 | ------- | 19,200 | 14,600 | ------- |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 17,300 | 5,770 | 7,740 | 476,000 |
| November | 6,540 | 5,070 | 5,630 | 335,000 |
| December | 10,400 | 4,560 | 6,800 | 418,000 |
| January | 7,850 | 3,410 | 5,860 | 360,000 |
| February | 17,300 | 6,100 | 9,360 | 520,000 |
| March | 13,400 | 8,200 | 10,900 | 670,000 |
| April | 28,900 | 10,400 | 19,800 | 1,180,000 |
| May | 87,100 | 29,800 | 59,800 | 3,680,000 |
| June | 70,300 | 46,200 | 59,100 | 3,520,000 |
| July | 104,000 | 17,500 | 44,700 | 2,750,000 |
| August | 25,200 | 9,750 | 16,200 | 996,000 |
| September | 105,000 | 10,300 | 35,200 | 2,090,000 |
| The year | 105,000 | 3,410 | 23,500 | 17,000,000 |

### COLORADO RIVER AT YUMA, ARIZ.

LOCATION.—Water-stage recorder 1,000 feet below highway bridge at Yuma and 5 miles below Gila River. Zero of gage is 102.79 feet above mean sea level.

DRAINAGE AREA.—242,000 square miles.

RECORDS AVAILABLE.—April, 1878, to September, 1927. Gage heights only prior to January 1, 1902.

EXTREMES.—Maximum discharge during year, 92,400 second-feet February 21 (gage height, 29.4 feet); minimum, 2,000 second-feet January 9 (gage height, 16.35 feet).

1902–1927: Maximum mean daily discharge, 240,000 second-feet January 22, 1916; minimum, 1,150 second-feet January 8, 1925.

REMARKS.—Diversions for irrigation above station. Records furnished by United States Bureau of Reclamation.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 8,640 | 4,960 | 4,800 | 4,460 | 5,680 | 12,700 | 7,000 | 18,400 | 74,000 | 58,000 | 17,000 | 9,460 |
| 2 | 22,600 | 4,650 | 4,440 | 3,730 | 5,820 | 12,100 | 6,720 | 22,700 | 74,100 | 54,800 | 17,400 | 13,200 |
| 3 | 17,000 | 4,380 | 5,460 | 4,270 | 4,890 | 13,300 | 7,900 | 26,500 | 73,500 | 55,700 | 18,400 | 14,900 |
| 4 | 11,400 | 3,730 | 8,170 | 4,070 | 5,260 | 14,600 | 8,950 | 29,900 | 70,000 | 61,700 | 19,300 | 13,600 |
| 5 | 8,600 | 4,130 | 6,970 | 3,760 | 5,590 | 14,200 | 10,200 | 31,300 | 63,800 | 66,400 | 17,900 | 13,700 |
| 6 | 7,450 | 4,480 | 7,960 | 2,940 | 4,760 | 13,300 | 11,800 | 34,800 | 58,100 | 69,800 | 16,800 | 13,900 |
| 7 | 5,900 | 4,020 | 8,040 | 3,160 | 4,760 | 14,800 | 12,400 | 39,000 | 54,100 | 72,700 | 16,500 | 12,200 |
| 8 | 5,930 | 4,290 | 8,460 | 3,060 | 4,480 | 16,000 | 13,900 | 42,800 | 50,200 | 75,500 | 15,800 | 10,600 |
| 9 | 5,650 | 4,020 | 9,460 | 2,620 | 4,650 | 15,700 | 15,100 | 45,800 | 48,300 | 77,200 | 14,500 | 9,560 |
| 10 | 4,940 | 3,920 | 11,600 | 2,800 | 3,920 | 13,600 | 16,000 | 49,200 | 47,500 | 74,700 | 13,700 | 8,550 |
| 11 | 5,140 | 3,420 | 10,200 | 2,920 | 4,480 | 12,900 | 18,000 | 52,700 | 47,500 | 67,500 | 14,700 | 7,960 |
| 12 | 5,570 | 3,790 | 9,460 | 3,010 | 4,650 | 13,200 | 20,400 | 53,800 | 45,000 | 59,800 | 18,400 | 10,100 |
| 13 | 7,370 | 3,870 | 8,510 | 2,620 | 3,940 | 13,600 | 23,400 | 56,800 | 44,600 | 52,000 | 23,700 | 15,200 |
| 14 | 6,550 | 3,790 | 8,460 | 3,410 | 4,380 | 13,600 | 23,900 | 58,000 | 45,100 | 45,100 | 20,000 | 18,000 |
| 15 | 6,330 | 3,660 | 8,910 | 4,350 | 5,700 | 11,900 | 24,400 | 58,700 | 47,100 | 43,200 | 16,500 | 43,200 |
| 16 | 6,720 | 3,940 | 11,100 | 3,970 | 12,000 | 13,100 | 25,100 | 57,100 | 49,200 | 40,900 | 15,000 | 53,100 |
| 17 | 6,140 | 4,360 | 11,200 | 4,710 | 35,500 | 12,500 | 24,200 | 54,100 | 51,000 | 41,900 | 17,000 | 60,300 |
| 18 | 6,330 | 3,700 | 10,500 | 4,800 | 55,300 | 12,200 | 22,200 | 47,000 | 54,700 | 38,600 | 17,100 | 65,800 |
| 19 | 6,080 | 4,310 | 9,660 | 5,490 | 63,800 | 13,000 | 20,900 | 41,300 | 57,100 | 34,200 | 16,100 | 71,200 |
| 20 | 6,260 | 4,670 | 8,340 | 6,900 | 81,200 | 12,300 | 19,300 | 40,400 | 58,000 | 32,100 | 15,600 | 72,800 |
| 21 | 5,960 | 4,160 | 7,370 | 5,310 | 78,900 | 11,300 | 18,400 | 43,000 | 59,600 | 28,700 | 14,500 | 70,100 |
| 22 | 6,360 | 4,780 | 7,150 | 6,230 | 29,700 | 10,200 | 17,300 | 47,500 | 62,500 | 26,300 | 12,700 | 60,800 |
| 23 | 6,390 | 4,540 | 6,230 | 5,460 | 24,100 | 9,560 | 17,100 | 49,100 | 63,200 | 24,000 | 11,600 | 44,700 |
| 24 | 5,700 | 4,400 | 6,230 | 5,900 | 21,900 | 9,510 | 15,900 | 52,400 | 63,300 | 22,100 | 11,000 | 36,400 |
| 25 | 5,820 | 3,860 | 6,050 | 5,520 | 20,300 | 9,370 | 14,000 | 55,500 | 65,100 | 20,800 | 10,200 | 35,400 |
| 26 | 5,410 | 4,740 | 5,100 | 5,490 | 18,600 | 9,320 | 12,600 | 57,200 | 64,600 | 19,000 | 9,750 | 30,700 |
| 27 | 5,310 | 5,360 | 4,820 | 6,420 | 16,700 | 8,080 | 12,700 | 62,300 | 63,500 | 17,800 | 10,400 | 25,800 |
| 28 | 4,650 | 5,460 | 4,590 | 6,230 | 14,900 | 8,000 | 12,700 | 64,800 | 62,100 | 16,400 | 10,900 | 22,600 |
| 29 | 4,960 | 4,460 | 4,500 | 5,790 | ------- | 7,760 | 14,400 | 69,100 | 62,100 | 16,500 | 9,510 | 20,300 |
| 30 | 5,100 | 4,560 | 3,680 | 5,990 | ------- | 8,080 | 16,500 | 71,900 | 61,200 | 16,000 | 8,380 | 21,000 |
| 31 | 4,610 | ------- | 4,130 | 5,930 | ------- | 6,930 | ------- | 73,200 | ------- | 16,800 | 9,950 | ------- |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 22,600 | 4,610 | 7,120 | 438,000 |
| November | 5,460 | 3,420 | 4,280 | 255,000 |
| December | 11,600 | 3,680 | 7,470 | 459,000 |
| January | 6,900 | 2,620 | 4,560 | 280,000 |
| February | 81,200 | 3,920 | 19,500 | 1,080,000 |
| March | 16,000 | 6,930 | 11,800 | 726,000 |
| April | 25,100 | 6,720 | 16,100 | 958,000 |
| May | 73,200 | 18,400 | 48,600 | 2,990,000 |
| June | 74,100 | 44,600 | 58,000 | 3,450,000 |
| July | 77,200 | 16,000 | 43,400 | 2,670,000 |
| August | 23,700 | 8,380 | 14,800 | 910,000 |
| September | 72,800 | 7,960 | 30,200 | 1,800,000 |
| The year | 81,200 | 2,620 | 22,100 | 16,000,000 |

### FRASER RIVER NEAR WEST PORTAL, COLO.

LOCATION.—Water-stage recorder in NE. ¼ sec. 4, T. 2 S., R. 75 W., 1½ miles northwest of West Portal and 7 miles below mouth of Buck Creek.

DRAINAGE AREA.—28 square miles.

RECORDS AVAILABLE.—September, 1910, to September, 1927.

EXTREMES.—Maximum discharge during year, 235 second-feet June 28 (gage height, 1.83 feet); minimum, 7 second-feet many days in January, February, and March.

1910–1927: Maximum discharge recorded, 820 second-feet June 13, 1918 (gage height, 2.9 feet); minimum, 2 second-feet March 30, 1912 (gage height, 0.60 foot).

REMARKS.—Diversions for irrigation above station. Complete records furnished by State engineer of Colorado.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 22 | 16 | 10 | 8 | 7 | 7 | 9 | 64 | 146 | 128 | 66 | 36 |
| 2 | 23 | 16 | 10 | 7 | 7 | 7 | 10 | 77 | 142 | 114 | 59 | 33 |
| 3 | 22 | 14 | 9 | 8 | 7 | 7 | 10 | 84 | 140 | 119 | 58 | 31 |
| 4 | 20 | 14 | 9 | 7 | 7 | 7 | 10 | 86 | 138 | 114 | 60 | 32 |
| 5 | 22 | 14 | 11 | 7 | 7 | 7 | 10 | 77 | 138 | 111 | 59 | 34 |
| 6 | 22 | 14 | 11 | 7 | 7 | 7 | 11 | 77 | 138 | 108 | 59 | 34 |
| 7 | 22 | 16 | 11 | 7 | 7 | 7 | 11 | 84 | 140 | 100 | 58 | 36 |
| 8 | 23 | 22 | 11 | 7 | 7 | 7 | 12 | 56 | 142 | 90 | 60 | 38 |
| 9 | 23 | 17 | 11 | 7 | 7 | 8 | 14 | 54 | 154 | 92 | 71 | 39 |
| 10 | 22 | 16 | 11 | 7 | 7 | 8 | 13 | 53 | 170 | 94 | 66 | 40 |
| 11 | 21 | 15 | 11 | 7 | 7 | 7 | 13 | 56 | 182 | 90 | 64 | 40 |
| 12 | 19 | 14 | 11 | 7 | 8 | 7 | 13 | 75 | 180 | 86 | 62 | 43 |
| 13 | 19 | 11 | 10 | 7 | 7 | 8 | 12 | 77 | 172 | 83 | 58 | 51 |
| 14 | 18 | 11 | 10 | 7 | 7 | 8 | 11 | 79 | 168 | 79 | 51 | 53 |
| 15 | 18 | 12 | 10 | 7 | 7 | 8 | 11 | 92 | 170 | 75 | 46 | 49 |
| 16 | 17 | 11 | 10 | 7 | 7 | 9 | 11 | 110 | 156 | 71 | 42 | 48 |
| 17 | 17 | 11 | 10 | 7 | 8 | 8 | 11 | 148 | 162 | 68 | 38 | 49 |
| 18 | 18 | 12 | 9 | 7 | 7 | 8 | 12 | 154 | 158 | 64 | 35 | 39 |
| 19 | 18 | 12 | 9 | 7 | 7 | 7 | 11 | 168 | 158 | 60 | 32 | 38 |
| 20 | 17 | 11 | 8 | 7 | 7 | 8 | 11 | 170 | 148 | 56 | 29 | 37 |
| 21 | 18 | 11 | 8 | 7 | 7 | 9 | 10 | 164 | 152 | 56 | 29 | 36 |
| 22 | 18 | 11 | 8 | 7 | 7 | 10 | 10 | 168 | 156 | 58 | 29 | 35 |
| 23 | 18 | 10 | 8 | 7 | 7 | 9 | 11 | 174 | 162 | 62 | 29 | 35 |
| 24 | 17 | 10 | 9 | 7 | 7 | 8 | 12 | 176 | 178 | 63 | 32 | 34 |
| 25 | 16 | 10 | 8 | 7 | 7 | 8 | 41 | 172 | 178 | 55 | 31 | 34 |
| 26 | 16 | 10 | 8 | 7 | 7 | 9 | 43 | 172 | 184 | 51 | 30 | 33 |
| 27 | 13 | 10 | 8 | 7 | 7 | 9 | 40 | 166 | 170 | 53 | 35 | 30 |
| 28 | 13 | 10 | 8 | 7 | 7 | 9 | 35 | 154 | 176 | 69 | 36 | 28 |
| 29 | 15 | 10 | 8 | 8 | ------ | 10 | 41 | 158 | 166 | 70 | 36 | 28 |
| 30 | 16 | 10 | 8 | 8 | ------ | 9 | 43 | 154 | 148 | 63 | 36 | 28 |
| 31 | 16 | ------ | 8 | 7 | ------ | 9 | ------ | 150 | ------ | 66 | 36 | ------ |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 23 | 13 | 18.7 | 1,150 |
| November | 22 | 10 | 12.7 | 756 |
| December | 11 | 8 | 9.39 | 577 |
| January | 8 | 7 | 7.13 | 438 |
| February | 8 | 7 | 7.07 | 393 |
| March | 10 | 7 | 8.03 | 494 |
| April | 43 | 9 | 17.1 | 1,020 |
| May | 176 | 53 | 118 | 7,260 |
| June | 184 | 138 | 159 | 9,460 |
| July | 128 | 51 | 79.6 | 4,890 |
| August | 71 | 29 | 46.2 | 2,840 |
| September | 53 | 28 | 37.4 | 2,230 |
| The year | 184 | 7 | 43.5 | 31,500 |

### BLUE RIVER AT DILLON, COLO.

LOCATION.—Water-stage recorder in sec. 18, T. 5 S., R. 77 W., at edge of Dillon, a short distance above mouths of Snake River and Tenmile Creek.

DRAINAGE AREA.—129 square miles.

RECORDS AVAILABLE.—October, 1910, to September, 1927.

EXTREMES.—Maximum discharge during year, 660 second-feet June 29 (gage height, 3.04 feet); minimum occurred during winter.

1910–1927: Maximum discharge, 1,180 second-feet June 14, 1924 (gage height, 3.6 feet); minimum, 14 second-feet January 30 and February 9, 1915 (gage height, 1.10 feet).

REMARKS.—Practically no diversions above station. Mean discharge for December, January, and February estimated. Complete records furnished by State engineer of Colorado.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 53 | 41 | | | | 28 | 151 | 405 | 410 | 176 | 91 |
| 2 | 53 | 39 | | | | 28 | 178 | 421 | 332 | 165 | 89 |
| 3 | 54 | 38 | | 21 | | 28 | 204 | 421 | 341 | 187 | 87 |
| 4 | 56 | 34 | | | | 28 | 214 | 389 | 341 | 190 | 83 |
| 5 | 54 | 35 | 32 | | | 28 | 212 | 346 | 337 | 165 | 82 |
| 6 | 54 | 36 | | | | 28 | 217 | 346 | 350 | 157 | 78 |
| 7 | 56 | 39 | | | | 28 | 259 | 350 | 324 | 155 | 74 |
| 8 | 57 | 34 | | | | 30 | 305 | 389 | 301 | 163 | 72 |
| 9 | 60 | 38 | | | | 30 | 262 | 421 | 305 | 204 | 72 |
| 10 | 61 | 39 | | | 27 | 30 | 209 | 438 | 312 | 214 | 72 |
| 11 | 58 | 39 | | | | 32 | 202 | 474 | 309 | 187 | 71 |
| 12 | 58 | 39 | | | | 32 | 202 | 462 | 273 | 172 | 71 |
| 13 | 57 | 40 | | | | 32 | 207 | 421 | 259 | 157 | 71 |
| 14 | 54 | 42 | | | | 32 | 222 | 416 | 253 | 148 | 75 |
| 15 | 53 | 42 | | | | 32 | 269 | 416 | 233 | 140 | 75 |
| 16 | 53 | 43 | | | | 36 | 332 | 416 | 214 | 137 | 72 |
| 17 | 53 | 44 | | | | 36 | 438 | 389 | 209 | 132 | 67 |
| 18 | 52 | 42 | | | | 36 | 571 | 410 | 199 | 126 | 67 |
| 19 | 51 | 42 | | | | 38 | 586 | 450 | 197 | 120 | 66 |
| 20 | 51 | 40 | | | | 38 | 579 | 438 | 192 | 117 | 65 |
| 21 | 51 | 39 | | | | 40 | 600 | 405 | 192 | 113 | 63 |
| 22 | 50 | 39 | | | | 38 | 615 | 383 | 214 | 109 | 65 |
| 23 | 48 | 39 | | | | 38 | 607 | 369 | 225 | 104 | 63 |
| 24 | 46 | 39 | | | | 44 | 538 | 373 | 207 | 101 | 62 |
| 25 | 46 | 37 | | | | 52 | 480 | 427 | 194 | 96 | 62 |
| 26 | 44 | 37 | | | | 70 | 480 | 505 | 180 | 95 | 65 |
| 27 | 43 | 37 | | | | 86 | 492 | 579 | 178 | 95 | 69 |
| 28 | 43 | 37 | | | | 102 | 486 | 538 | 199 | 96 | 72 |
| 29 | 43 | 37 | | | | 120 | 480 | 600 | 212 | 98 | 72 |
| 30 | 42 | 37 | | | | 132 | 444 | 505 | 209 | 95 | 71 |
| 31 | 42 | | | | | | 410 | | 202 | 92 | |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 61 | 42 | 51.5 | 3,170 |
| November | 44 | 34 | 38.8 | 2,310 |
| December | | | 35 | 2,150 |
| January | | | 28 | 1,720 |
| February | | | 24 | 1,330 |
| March | | | 27 | 1,660 |
| April | 132 | 28 | 45.1 | 2,680 |
| May | 615 | 151 | 369 | 22,700 |
| June | 600 | 346 | 430 | 25,600 |
| July | 410 | 178 | 255 | 15,700 |
| August | 214 | 92 | 139 | 8,550 |
| September | 91 | 62 | 72.1 | 4,290 |
| The year | 615 | | 127 | 91,900 |

### ROARING FORK AT GLENWOOD SPRINGS, COLO.

LOCATION.—Water-stage recorder in sec. 9, T. 6 S., R. 89 W., 1,500 feet above mouth of river at Glenwood Springs, Garfield County.

DRAINAGE AREA.—1,460 square miles.

RECORDS AVAILABLE.—April, 1906, to September, 1909; September, 1910, to September, 1927.

EXTREMES.—Maximum discharge during year, 9,230 second-feet June 28 (gage height, 6.07 feet); minimum, 336 second-feet February 10 (gage height, 0.80 foot).

1906–1909, 1910–1927: Maximum discharge, 17,600 second-feet June 14, 1918, and June 14, 1921; minimum, 225 second-feet December 16, 1906 (gage height, 1.15 feet).

REMARKS.—Record good except during periods October 7 to March 31 and June 7–30, for which they are fair. Discharge estimated October 1–23 and November 12 and 13. Diversions for irrigation above station.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 535 | 569 | 536 | 505 | 406 | 389 | 485 | 2,700 | 5,090 | 4,030 | 1,600 | 1,040 |
| 2 | 595 | 574 | 525 | 490 | 389 | 389 | 475 | 2,900 | 5,510 | 3,890 | 1,900 | 977 |
| 3 | 680 | 580 | 536 | 500 | 402 | 414 | 480 | 3,110 | 5,090 | 3,820 | 2,180 | 942 |
| 4 | 690 | 580 | 536 | 490 | 402 | 406 | 552 | 3,140 | 4,510 | 3,680 | 1,800 | 924 |
| 5 | 710 | 574 | 525 | 485 | 402 | 398 | 536 | 2,930 | 4,700 | 4,010 | 1,590 | 933 |
| 6 | 714 | 586 | 542 | 485 | 402 | 402 | 542 | 2,740 | 5,160 | 3,740 | 1,590 | 916 |
| 7 | 718 | 592 | 552 | 485 | 406 | 398 | 580 | 3,250 | 5,610 | 3,460 | 1,880 | 890 |
| 8 | 780 | 586 | 542 | 446 | 406 | 393 | 622 | 3,410 | 6,820 | 3,270 | 1,930 | 899 |
| 9 | 841 | 564 | 525 | 437 | 381 | 419 | 592 | 2,680 | 6,960 | 3,210 | 2,220 | 1,000 |
| 10 | 875 | 564 | 480 | 410 | 355 | 419 | 634 | 2,180 | 7,650 | 3,990 | 1,880 | 1,410 |
| 11 | 895 | 569 | 456 | 432 | 398 | 414 | 654 | 1,960 | 6,540 | 3,670 | 1,690 | 1,540 |
| 12 | 850 | 562 | 530 | 451 | 410 | 381 | 628 | 1,880 | 6,320 | 3,090 | 1,850 | 1,390 |
| 13 | 795 | 554 | 461 | 437 | 402 | 389 | 569 | 2,030 | 5,680 | 2,950 | 1,640 | 1,680 |
| 14 | 735 | 547 | 437 | 432 | 402 | 406 | 530 | 2,620 | 5,490 | 2,740 | 1,510 | 1,780 |
| 15 | 730 | 536 | 406 | 423 | 402 | 410 | 520 | 3,160 | 7,260 | 2,460 | 1,480 | 1,540 |
| 16 | 703 | 552 | 451 | 432 | 398 | 393 | 505 | 4,050 | 5,940 | 2,330 | 1,530 | 1,370 |
| 17 | 740 | 515 | 480 | 419 | 393 | 359 | 490 | 5,390 | 5,740 | 2,230 | 1,360 | 1,280 |
| 18 | 735 | 510 | 505 | 414 | 393 | 410 | 495 | 6,820 | 6,320 | 2,120 | 1,240 | 1,240 |
| 19 | 715 | 558 | 542 | 419 | 393 | 402 | 552 | 6,680 | 6,960 | 2,000 | 1,150 | 1,180 |
| 20 | 690 | 547 | 515 | 423 | 389 | 381 | 586 | 6,430 | 6,140 | 2,030 | 1,110 | 1,100 |
| 21 | 655 | 547 | 451 | 437 | 393 | 363 | 574 | 6,600 | 5,580 | 2,120 | 1,080 | 1,040 |
| 22 | 620 | 542 | 500 | 432 | 410 | 406 | 592 | 7,050 | 5,250 | 2,040 | 1,040 | 1,020 |
| 23 | 580 | 542 | 505 | 414 | 398 | 381 | 654 | 6,060 | 5,440 | 2,100 | 1,000 | 1,040 |
| 24 | 530 | 530 | 456 | 385 | 398 | 389 | 793 | 4,900 | 6,010 | 1,880 | 959 | 1,030 |
| 25 | 569 | 552 | 414 | 385 | 402 | 406 | 1,000 | 4,810 | 6,090 | 1,740 | 950 | 1,280 |
| 26 | 569 | 536 | 432 | 402 | 414 | 427 | 1,360 | 5,660 | 6,170 | 1,630 | 995 | 1,340 |
| 27 | 564 | 558 | 456 | 441 | 427 | 456 | 1,750 | 5,270 | 6,990 | 1,640 | 1,190 | 1,260 |
| 28 | 564 | 569 | 456 | 419 | 432 | 485 | 2,020 | 5,370 | 8,280 | 1,680 | 1,280 | 1,200 |
| 29 | 569 | 525 | 414 | 419 | ------ | 485 | 2,100 | 5,090 | 6,760 | 1,950 | 1,280 | 1,160 |
| 30 | 574 | 542 | 423 | 398 | ------ | 505 | 2,300 | 4,380 | 5,370 | 2,080 | 1,180 | 1,190 |
| 31 | 574 | ------ | 500 | 406 | ------ | 536 | ------ | 4,550 | ------ | 1,740 | 1,100 | ------ |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 895 | 530 | 680 | 41,800 |
| November | 592 | 510 | 555 | 33,000 |
| December | 552 | 406 | 487 | 29,900 |
| January | 505 | 385 | 437 | 26,900 |
| February | 432 | 355 | 400 | 22,200 |
| March | 536 | 359 | 413 | 25,400 |
| April | 2,300 | 475 | 806 | 48,000 |
| May | 7,050 | 1,880 | 4,190 | 258,000 |
| June | 8,280 | 4,510 | 6,050 | 360,000 |
| July | 4,030 | 1,630 | 2,690 | 165,000 |
| August | 2,220 | 950 | 1,460 | 89,800 |
| September | 1,780 | 890 | 1,190 | 70,800 |
| The year | 8,280 | 355 | 1,620 | 1,170,000 |

### PARACHUTE CREEK AT GRAND VALLEY, COLO.

LOCATION.—Staff gage in NW. ¼ sec. 12, T. 7 S., R. 96 W., half a mile northwest of Grand Valley and 1 mile above mouth.
DRAINAGE AREA.—196 square miles.
RECORDS AVAILABLE.—April, 1921, to September, 1927 (discontinued).
EXTREMES.—Maximum discharge during year, 360 second-feet May 2 and 3 (gage height, 2.6 feet); no flow August 2–5.
1921–1927: Maximum discharge, 790 second-feet May 9, 1922 (gage height 3.0 feet); no flow for short periods in 1926 and 1927.
REMARKS.—Diversions for irrigation above station. Complete records furnished by State engineer of Colorado.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 6 | 14 | 41 | 24 | 302 | 77 | 29 | 1 | 20 |
| 2 | 6 | 14 | 41 | 22 | 340 | 70 | 29 | 0 | 20 |
| 3 | 9 | 14 | 41 | 22 | 351 | 63 | 29 | 0 | 20 |
| 4 | 9 | 14 | 41 | 39 | 313 | 56 | 27 | 0 | 20 |
| 5 | 9 | 14 | 41 | 35 | 284 | 53 | 24 | 0 | 20 |
| 6 | 56 | 14 | 35 | 41 | 284 | 48 | 24 | 2 | 20 |
| 7 | 56 | 13 | 29 | 41 | 284 | 44 | 24 | 3 | 20 |
| 8 | 41 | 14 | 29 | 41 | 284 | 41 | 12 | 3 | 20 |
| 9 | 29 | 14 | 29 | 41 | 262 | 39 | 5 | 3 | 20 |
| 10 | 29 | 14 | 29 | 42 | 242 | 35 | 5 | 4 | 20 |
| 11 | 29 | 14 | 29 | 56 | 222 | 31 | 5 | 4 | 108 |
| 12 | 20 | 14 | 29 | 56 | 204 | 29 | 5 | 4 | 86 |
| 13 | 20 | 14 | 29 | 59 | 182 | 29 | 2 | 4 | 29 |
| 14 | 20 | 14 | 29 | 59 | 160 | 31 | 1 | 6 | 25 |
| 15 | 20 | 14 | 20 | 70 | 155 | 56 | 1 | 14 | 24 |
| 16 | 14 | 14 | 20 | 70 | 150 | 56 | 1 | 17 | 24 |
| 17 | 14 | 14 | 20 | 70 | 144 | 54 | 1 | 22 | 24 |
| 18 | 14 | 14 | 20 | 77 | 139 | 47 | 1 | 3 | 24 |
| 19 | 14 | 14 | 20 | 77 | 134 | 41 | 1 | 5 | 22 |
| 20 | 14 | 14 | 14 | 77 | 130 | 41 | 1 | 5 | 22 |
| 21 | 14 | 14 | 14 | 77 | 125 | 41 | 1 | 5 | 22 |
| 22 | 14 | 14 | 14 | 82 | 121 | 39 | 1 | 5 | 22 |
| 23 | 14 | 14 | 14 | 77 | 116 | 37 | 1 | 5 | 22 |
| 24 | 14 | 14 | 14 | 88 | 116 | 36 | 2 | 5 | 22 |
| 25 | 14 | 14 | 14 | 116 | 112 | 35 | 6 | 5 | 20 |
| 26 | 14 | 14 | 17 | 155 | 108 | 35 | 1 | 5 | 20 |
| 27 | 14 | 14 | 17 | 192 | 104 | 33 | 1 | 6 | 20 |
| 28 | 14 | 14 | 17 | 242 | 102 | 31 | 1 | 20 | 20 |
| 29 | 14 | 14 | 17 | 277 | 96 | 30 | 1 | 20 | 20 |
| 30 | 14 | 14 | 22 | 302 | 88 | 29 | 1 | 20 | 20 |
| 31 | 14 | ------- | 22 | ------- | 82 | ------- | 1 | 20 | ------- |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 56 | 6 | 18.8 | 1,160 |
| November | 14 | 13 | 14.0 | 833 |
| March | 41 | 14 | 24.8 | 1,520 |
| April | 302 | 22 | 87.6 | 5,210 |
| May | 351 | 82 | 185 | 11,400 |
| June | 77 | 29 | 42.9 | 2,550 |
| July | 29 | 1 | 7.87 | 484 |
| August | 22 | 0 | 6.97 | 429 |
| September | 108 | 20 | 26.5 | 1,580 |

### TAYLOR RIVER AT ALMONT, COLO.

LOCATION.—Water-stage recorder in sec. 22, T. 51 N., R. 1 E., in Almont, 300 feet above junction with East River.

DRAINAGE AREA.—440 square miles.

RECORDS AVAILABLE.—July, 1910, to September, 1927.

EXTREMES.—Maximum discharge during year, 2,080 second-feet May 22 (gage height, 3.84 feet); minimum, 74 second-feet December 15 (gage height, 1.50 feet).

1910–1927: Maximum discharge, 3,760 second-feet June 9, 1920 (gage height, 5.0 feet); minimum, 50 second-feet several days during August, 1913 (gage height, 1.2 feet).

REMARKS.—Records good except for periods affected by ice, December 1–4, 17–31, and January 1 to February 21, for which they are fair. Discharge estimated because of missing record, April 10–12 and August 30 to September 4. Diversions for irrigation above station.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 187 | 136 | 123 | | | 139 | 124 | 732 | 1,350 | 990 | 390 | 370 |
| 2 | 200 | 130 | 122 | | | 113 | 118 | 790 | 1,410 | 924 | 514 | 380 |
| 3 | 200 | 130 | 127 | | | 124 | 124 | 892 | 1,290 | 913 | 462 | 380 |
| 4 | 200 | 130 | 140 | | | 130 | 130 | 978 | 1,260 | 840 | 410 | 380 |
| 5 | 196 | 130 | 155 | 115 | 115 | 124 | 127 | 1,010 | 1,290 | 850 | 441 | 381 |
| 6 | 187 | 130 | 155 | | | 118 | 136 | 902 | 1,410 | 770 | 452 | 381 |
| 7 | 183 | 124 | 152 | | | 118 | 152 | 1,140 | 1,560 | 678 | 420 | 381 |
| 8 | 176 | 124 | 133 | | | 121 | 155 | 1,100 | 1,790 | 638 | 420 | 319 |
| 9 | 176 | 124 | 118 | | | 124 | 142 | 732 | 1,810 | 660 | 585 | 356 |
| 10 | 169 | 124 | 113 | | | 130 | 139 | 630 | 1,790 | 902 | 474 | 371 |
| 11 | 162 | 118 | 118 | | | 121 | 136 | 622 | 1,610 | 732 | 371 | 361 |
| 12 | 155 | 118 | 148 | | | 113 | 133 | 660 | 1,540 | 622 | 371 | 314 |
| 13 | 148 | 118 | 111 | | | 113 | 130 | 760 | 1,380 | 585 | 381 | 446 |
| 14 | 148 | 118 | 118 | | | 113 | 124 | 1,010 | 1,350 | 546 | 347 | 395 |
| 15 | 148 | 118 | 74 | 115 | 115 | 118 | 127 | 1,120 | 1,620 | 514 | 361 | 333 |
| 16 | 148 | 118 | 92 | | | 118 | 130 | 1,190 | 1,320 | 491 | 356 | 296 |
| 17 | 148 | 118 | 98 | | | 96 | 121 | 1,120 | 1,300 | 462 | 309 | 300 |
| 18 | 148 | 118 | 102 | | | 94 | 130 | 1,260 | 1,450 | 457 | 282 | 309 |
| 19 | 148 | 118 | 110 | | | 94 | 148 | 1,290 | 1,530 | 452 | 277 | 277 |
| 20 | 148 | 130 | 118 | | | 106 | 155 | 1,410 | 1,300 | 485 | 300 | 264 |
| 21 | 148 | 136 | | | 131 | 86 | 145 | 1,810 | 1,200 | 485 | 286 | 255 |
| 22 | 148 | 136 | | | 142 | 99 | 142 | 1,910 | 1,110 | 546 | 296 | 251 |
| 23 | 142 | 130 | | | 155 | 118 | 180 | 1,720 | 1,080 | 533 | 296 | 268 |
| 24 | 142 | 130 | | | 169 | 116 | 217 | 1,490 | 1,160 | 572 | 282 | 268 |
| 25 | 142 | 130 | | | 145 | 118 | 282 | 1,460 | 1,200 | 497 | 282 | 386 |
| 26 | 142 | 124 | 110 | 120 | 130 | 116 | 347 | 1,610 | 1,200 | 446 | 352 | 420 |
| 27 | 142 | 124 | | | 142 | 118 | 431 | 1,530 | 1,350 | 474 | 410 | 356 |
| 28 | 136 | 124 | | | 142 | 118 | 503 | 1,560 | 1,620 | 508 | 376 | 328 |
| 29 | 136 | 124 | | | ------- | 118 | 526 | 1,480 | 1,820 | 468 | 328 | 314 |
| 30 | 136 | 124 | | | ------- | 133 | 638 | 1,260 | 1,380 | 479 | 340 | 314 |
| 31 | 136 | ------- | | | ------- | 136 | ------- | 1,290 | ------- | 410 | 360 | ------- |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 200 | 136 | 159 | 9,780 |
| November | 136 | 118 | 125 | 7,440 |
| December | 155 | 74 | 117 | 7,190 |
| January | ---------- | ---------- | 117 | 7,190 |
| February | 169 | ---------- | 123 | 6,830 |
| March | 139 | 86 | 116 | 7,130 |
| April | 638 | 118 | 203 | 12,100 |
| May | 1,910 | 622 | 1,180 | 72,600 |
| June | 1,820 | 1,080 | 1,420 | 84,500 |
| July | 990 | 410 | 611 | 37,600 |
| August | 585 | 277 | 372 | 22,900 |
| September | 446 | 251 | 338 | 20,100 |
| The year | 1,910 | ---------- | 407 | 295,000 |

### GUNNISON RIVER NEAR GUNNISON, COLO.

LOCATION.—Chain gage in sec. 3, T. 49 N., R. 1 W., at highway bridge 2 miles southwest of Gunnison and 1 mile above mouth of Tomichi Creek.

DRAINAGE AREA.—1,010 square miles.

RECORDS AVAILABLE.—November, 1910, to November, 1914; April, 1916, to September, 1927.

EXTREMES.—Maximum discharge during year, 5,090 second-feet May 19 (gage height, 4.2 feet); minimum probably occurred during winter.

1910–1914, 1916–1927: Maximum discharge, 11,400 second-feet June 13, 1918; minimum, 126 second-feet January 8, 1919.

REMARKS.—Records good except for periods affected by ice, November 26, 28–30, December 1, 22–31, and January 1 to March 14, for which they are fair. Diversions for irrigation above station.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 296 | 315 | 265 | | | | 335 | 2,510 | 2,800 | 2,780 | 839 | 539 |
| 2 | 306 | 306 | 265 | | | | 371 | 2,720 | 2,800 | 2,400 | 839 | 487 |
| 3 | 325 | 306 | 257 | | | | 382 | 2,900 | 2,780 | 2,190 | 1,020 | 455 |
| 4 | 330 | 283 | 315 | | | | 487 | 2,900 | 2,720 | 2,170 | 954 | 487 |
| 5 | 335 | 292 | 310 | 227 | 219 | 185 | 455 | 2,780 | 2,840 | 2,200 | 850 | 494 |
| 6 | 325 | 296 | 310 | | | | 455 | 2,550 | 2,960 | 2,060 | 884 | 487 |
| 7 | 345 | 296 | 320 | | | | 466 | 3,030 | 3,400 | 1,910 | 1,160 | 466 |
| 8 | 325 | 257 | 306 | | | | 466 | 2,920 | 3,620 | 1,850 | 1,100 | 472 |
| 9 | 345 | 249 | 270 | | | | 460 | 2,380 | 3,770 | 1,880 | 1,460 | 650 |
| 10 | 382 | 229 | 265 | | | | 466 | 1,830 | 3,840 | 2,090 | 1,020 | 884 |
| 11 | 330 | 241 | 249 | | | | 455 | 1,620 | 3,550 | 1,980 | 930 | 862 |
| 12 | 335 | 335 | 245 | | | | 420 | 1,600 | 3,330 | 1,740 | 1,020 | 873 |
| 13 | 310 | 325 | 245 | | | 184 | 382 | 1,610 | 3,290 | 1,670 | 930 | 1,160 |
| 14 | 315 | 283 | 221 | | | | 387 | 2,740 | 3,180 | 1,620 | 930 | 990 |
| 15 | 315 | 315 | 214 | 220 | 198 | 203 | 376 | 3,030 | 3,550 | 1,450 | 919 | 795 |
| 16 | 310 | 310 | 225 | | | 214 | 365 | 3,510 | 3,330 | 1,270 | 908 | 740 |
| 17 | 310 | 261 | 214 | | | 221 | 376 | 4,060 | 3,010 | 1,140 | 795 | 621 |
| 18 | 315 | 237 | 218 | | | 229 | 387 | 4,500 | 3,050 | 1,160 | 730 | 621 |
| 19 | 325 | 325 | 218 | | | 233 | 414 | 4,740 | 3,470 | 1,120 | 680 | 584 |
| 20 | 310 | 310 | 203 | | | 229 | 455 | 4,500 | 3,200 | 1,140 | 641 | 531 |
| 21 | 306 | 306 | 221 | | | 203 | 426 | 4,800 | 2,780 | 1,220 | 640 | 502 |
| 22 | 301 | 301 | | | | 195 | 466 | 4,800 | 2,860 | 1,260 | 631 | 516 |
| 23 | 301 | 315 | | | | 229 | 555 | 3,950 | 2,780 | 1,280 | 640 | 516 |
| 24 | 296 | 301 | | | | 210 | 700 | 3,290 | 2,740 | 1,320 | 593 | 539 |
| 25 | 301 | 301 | | | 213 | 241 | 730 | 3,180 | 2,860 | 1,220 | 621 | 942 |
| 26 | 292 | 300 | 200 | 221 | | 237 | 1,030 | 3,510 | 2,900 | 1,160 | 751 | 817 |
| 27 | 296 | 296 | | | | 233 | 1,180 | 3,310 | 3,330 | 1,140 | 839 | 773 |
| 28 | 292 | 290 | | | | 237 | 1,500 | 3,290 | 3,840 | 1,130 | 740 | 720 |
| 29 | 274 | 280 | | | | 278 | 1,660 | 3,290 | 3,990 | 1,090 | 680 | 700 |
| 30 | 257 | 270 | | | | 296 | 2,020 | 2,740 | 3,290 | 1,130 | 612 | 710 |
| 31 | 283 | ------ | | | | 320 | ------ | 2,800 | ------ | 930 | 555 | ------ |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 382 | 257 | 313 | 19,200 |
| November | 335 | 229 | 291 | 17,300 |
| December | 320 | ------ | 237 | 14,600 |
| January | ------ | ------ | 223 | 13,700 |
| February | ------ | ------ | 210 | 11,700 |
| March | 320 | ------ | 213 | 13,100 |
| April | 2,020 | 335 | 621 | 37,000 |
| May | 4,800 | 1,600 | 3,140 | 193,000 |
| June | 3,990 | 2,720 | 3,200 | 190,000 |
| July | 2,780 | 930 | 1,570 | 96,500 |
| August | 1,460 | 555 | 836 | 51,400 |
| September | 1,160 | 455 | 664 | 39,500 |
| The year | 4,800 | ------ | 963 | 697,000 |

### GUNNISON RIVER NEAR GRAND JUNCTION, COLO.

LOCATION.—Staff gage in NW. ¼ sec. 35, T. 1 S., R. 1 W., in Grand Junction, half a mile below Redlands Co.'s canal and 2 miles above mouth.

DRAINAGE AREA.—8,020 square miles.

RECORDS AVAILABLE.—April, 1917, to September, 1927. From October, 1894, to December, 1895, and May, 1897, to September, 1899, at station near mouth.

EXTREMES.—Combined flow: Maximum discharge during year, 18,200 second-feet May 18 (gage height, 10.17 feet); minimum, 734 second-feet December 16. 1917–1927: Maximum discharge, 35,700 second-feet May 23, 1920 (gage height, 14.95 feet); minimum, 155 second-feet September 6, 1924.

REMARKS.—Records good. Discharge estimated because of ice effect December 26 to January 17, January 23–26, 28–31, February 1–4. Diversions for irrigation above stations. Combined flow of river and Redlands canal represents flow of river that enters Colorado River less about 25 second-feet diverted for irrigation. Gage-height record furnished by Redlands Irrigation Co.

*Daily and monthly discharge, in second-feet, of Gunnison River and Redlands power canal near Grand Junction, Colo., 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1,430 | 1,280 | 1,210 | | | 1,220 | 2,440 | 12,100 | 7,560 | 10,300 | 1,910 | 1,540 |
| 2 | 1,440 | 1,280 | 1,280 | | 944 | 946 | 2,080 | 12,700 | 7,720 | 9,700 | 2,020 | 1,300 |
| 3 | 1,460 | 1,340 | 1,180 | | | 994 | 2,340 | 13,100 | 7,980 | 9,120 | 2,070 | 1,230 |
| 4 | 1,510 | 1,210 | 1,210 | | | 1,180 | 2,460 | 13,000 | 7,440 | 8,600 | 2,120 | 1,100 |
| 5 | 1,390 | 1,250 | 1,210 | | 1,140 | 1,180 | 3,020 | 12,500 | 7,020 | 8,150 | 2,230 | 1,010 |
| 6 | 1,290 | 1,240 | 1,280 | | 1,210 | 1,160 | 3,030 | 11,300 | 7,100 | 7,190 | 2,290 | 1,030 |
| 7 | 1,280 | 1,200 | 1,280 | | 1,160 | 1,110 | 3,380 | 12,000 | 7,720 | 6,370 | 2,350 | 1,130 |
| 8 | 1,320 | 1,210 | 1,350 | | 1,080 | 1,070 | 3,670 | 12,500 | 8,420 | 5,180 | 2,470 | 1,430 |
| 9 | 1,430 | 1,180 | 1,300 | | 1,020 | 1,030 | 3,560 | 11,700 | 9,620 | 4,490 | 2,350 | 1,640 |
| 10 | 1,540 | 1,150 | 1,180 | 898 | 984 | 1,170 | 3,270 | 8,760 | 10,300 | 3,760 | 2,230 | 3,220 |
| 11 | 1,760 | 1,080 | 1,180 | | 908 | 1,240 | 3,080 | 7,340 | 10,400 | 2,940 | 2,180 | 5,050 |
| 12 | 1,680 | 1,130 | 1,190 | | 946 | 1,180 | 3,150 | 7,240 | 10,200 | 2,940 | 1,920 | 5,260 |
| 13 | 1,590 | 1,250 | 1,150 | | 984 | 1,090 | 2,530 | 7,880 | 10,300 | 2,590 | 1,820 | 4,640 |
| 14 | 1,490 | 1,360 | 1,090 | | 1,020 | 1,060 | 2,050 | 9,320 | 9,750 | 2,320 | 1,710 | 5,430 |
| 15 | 1,430 | 1,270 | 1,030 | | 1,000 | 1,080 | 1,840 | 11,500 | 10,100 | 2,320 | 1,630 | 4,880 |
| 16 | 1,420 | 1,210 | 858 | | 1,050 | 1,130 | 1,670 | 13,100 | 12,100 | 2,200 | 1,610 | 4,150 |
| 17 | 1,350 | 1,150 | 878 | | 1,160 | 1,150 | 1,580 | 15,600 | 10,600 | 2,090 | 1,630 | 3,070 |
| 18 | 1,360 | 1,150 | 878 | 1,050 | 1,150 | 1,030 | 1,490 | 17,400 | 10,300 | 1,950 | 1,570 | 3,500 |
| 19 | 1,340 | 1,180 | 878 | 1,120 | 1,000 | 1,150 | 1,470 | 17,700 | 10,700 | 1,850 | 1,410 | 3,320 |
| 20 | 1,280 | 1,250 | 878 | 1,140 | 1,000 | 1,050 | 2,000 | 16,700 | 10,400 | 2,210 | 1,410 | 3,000 |
| 21 | 1,280 | 1,340 | 954 | 1,140 | 1,020 | 1,080 | 2,200 | 15,600 | 9,610 | 2,280 | 1,370 | 2,690 |
| 22 | 1,180 | 1,280 | 954 | 1,140 | 1,060 | 968 | 2,300 | 14,700 | 8,600 | 2,130 | 1,300 | 2,450 |
| 23 | 1,200 | 1,360 | 1,110 | | 1,100 | 1,040 | 2,880 | 13,700 | 8,260 | 2,250 | 1,340 | 2,430 |
| 24 | 1,250 | 1,280 | 1,030 | | 1,080 | 1,170 | 3,790 | 11,700 | 7,710 | 2,130 | 1,370 | 2,530 |
| 25 | 1,180 | 1,250 | 954 | 1,060 | 1,060 | 1,200 | 5,020 | 10,100 | 7,290 | 1,910 | 1,430 | 3,050 |
| 26 | 1,160 | 1,360 | | | 1,080 | 1,300 | 6,800 | 10,300 | 7,190 | 1,760 | 1,540 | 3,710 |
| 27 | 1,150 | 1,320 | | 992 | 1,100 | 1,560 | 8,410 | 10,700 | 6,870 | 1,760 | 1,560 | 3,610 |
| 28 | 939 | 1,270 | 868 | | 1,150 | 1,760 | 9,410 | 10,500 | 7,930 | 1,910 | 1,580 | 3,310 |
| 29 | 1,150 | 1,320 | | 922 | | 1,840 | 10,300 | 9,940 | 14,300 | 2,190 | 1,600 | 3,110 |
| 30 | 1,180 | 1,270 | | | | 2,000 | 10,800 | 9,240 | 12,400 | 2,220 | 2,520 | 3,050 |
| 31 | 1,280 | | | | | 2,280 | | 7,880 | | 1,900 | 1,740 | |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 1,760 | 939 | 1,350 | 83,000 |
| November | 1,360 | 1,080 | 1,250 | 74,400 |
| December | 1,350 | | 1,050 | 64,600 |
| January | 1,140 | | 961 | 59,100 |
| February | 1,210 | | 1,040 | 57,800 |
| March | 2,280 | 946 | 1,240 | 76,200 |
| April | 10,800 | 1,470 | 3,730 | 222,000 |
| May | 17,700 | 7,240 | 11,900 | 732,000 |
| June | 14,300 | 6,870 | 9,200 | 547,000 |
| July | 10,300 | 1,760 | 3,830 | 236,000 |
| August | 2,520 | 1,300 | 1,820 | 112,000 |
| September | 5,430 | 1,010 | 2,900 | 173,000 |
| The year | 17,700 | | 3,360 | 2,440,000 |

### SURFACE CREEK AT CEDAREDGE, COLO.

LOCATION.—Water-stage recorder about sec. 29, T. 13 S., R. 94 W., at Cedaredge, 4 miles below mouth of Mill Creek.

DRAINAGE AREA.—43 square miles.

RECORDS AVAILABLE.—May, 1917, to September, 1927.

EXTREMES.—Maximum discharge during year, 535 second-feet May 2 (gage height, 1.76 feet); minimum, 2 second-feet October 15–22, April 1 and 2 (gage height, 0.12 foot).

1917–1927: Maximum discharge, 715 second-feet May 24, 1920; practically no flow during winter.

REMARKS.—Diversions for irrigation above station. Flow regulated by about 8,140 acre-feet of storage. Complete records furnished by State engineer of Colorado.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|
| 1 | 11 | | 2 | 409 | 76 | 48 | 26 | 14 |
| 2 | 19 | | 2 | 409 | 103 | 29 | 53 | 20 |
| 3 | 20 | | 3 | 382 | 86 | 16 | 48 | 16 |
| 4 | 19 | | 3 | 304 | 80 | 18 | 35 | 12 |
| 5 | 12 | | 3 | 176 | 62 | 23 | 26 | 11 |
| 6 | 8 | | 5 | 209 | 74 | 22 | 25 | 15 |
| 7 | 8 | | 9 | 233 | 83 | 28 | 39 | 18 |
| 8 | 8 | | 8 | 135 | 88 | 36 | 39 | 11 |
| 9 | 8 | | 5 | 56 | 112 | 36 | 36 | 32 |
| 10 | 6 | | 6 | 41 | 109 | 48 | 24 | 39 |
| 11 | 5 | | 6 | 34 | 106 | 34 | 16 | 24 |
| 12 | 5 | | 5 | 32 | 100 | 38 | 14 | 29 |
| 13 | 3 | | 4 | 62 | 115 | 35 | 15 | 56 |
| 14 | 3 | | 4 | 138 | 88 | 38 | 9 | 55 |
| 15 | 2 | | 4 | 233 | 126 | 31 | 12 | 29 |
| 16 | 2 | | 4 | 252 | 68 | 27 | 13 | 17 |
| 17 | 2 | | 4 | 258 | 62 | 24 | 12 | 20 |
| 18 | 2 | | 5 | 242 | 48 | 39 | 17 | 10 |
| 19 | 2 | | 9 | 214 | 41 | 38 | 17 | 6 |
| 20 | 2 | | 8 | 176 | 18 | 45 | 21 | 5 |
| 21 | 2 | | 8 | 138 | 15 | 53 | 20 | 5 |
| 22 | 2 | | 15 | 129 | 13 | 47 | 31 | 5 |
| 23 | 3 | | 41 | 62 | 10 | 38 | 34 | 5 |
| 24 | 3 | | 88 | 47 | 15 | 31 | 47 | 6 |
| 25 | 3 | | 132 | 118 | 45 | 31 | 45 | 11 |
| 26 | 3 | | 184 | 168 | 64 | 38 | 62 | 6 |
| 27 | 3 | | 218 | 118 | 78 | 42 | 66 | 5 |
| 28 | 3 | 3 | 200 | 92 | 223 | 34 | 42 | 4 |
| 29 | 3 | 3 | 306 | 60 | 132 | 28 | 56 | 4 |
| 30 | 3 | 3 | 318 | 93 | 83 | 29 | 52 | 4 |
| 31 | 3 | 3 | | 72 | | 31 | 39 | |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 20 | 2 | 5.71 | 351 |
| April | 318 | 2 | 53.6 | 3,190 |
| May | 409 | 32 | 164 | 10,100 |
| June | 223 | 10 | 77.4 | 4,610 |
| July | 53 | 16 | 34.0 | 2,090 |
| August | 66 | 9 | 32.0 | 1,970 |
| September | 56 | 4 | 16.5 | 982 |

### UNCOMPAHGRE RIVER BELOW OURAY, COLO.

LOCATION.—Water-stage recorder in sec. 30, T. 44 N., R. 7 W. New Mexico principal meridian, below all tributaries in Ouray.

DRAINAGE AREA.—76 square miles.

RECORDS AVAILABLE.—May, 1913, to September, 1927.

EXTREMES.—Maximum discharge, 2,150 second-feet June 28; maximum stage, 13.3 feet July 28; minimum discharge, 15 second-feet February 19 (gage height, 0.55 foot).

1913–1927: Maximum discharge, 2,530 second-feet June 14, 1918 (gage height, 5.5 feet); minimum, 10 second-feet February 5 and 6, 1915, March 18, 1922, and January 21, 1923.

REMARKS.—Records good to July 28, after which they are poor. Discharge estimated November 28 to December 3, July 10–15, 17–21, July 28 to August 8, and August 10–12, 21–26. Practically all diversions returned to river above station.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 60 | 49 | 44 | 31 | 25 | 26 | 57 | 394 | 500 | 500 | 200 | 135 |
| 2 | 85 | 48 | 44 | 30 | 26 | 27 | 63 | 391 | 492 | 453 | 230 | 124 |
| 3 | 98 | 46 | 44 | 30 | 26 | 26 | 69 | 400 | 450 | 425 | 300 | 115 |
| 4 | 117 | 44 | 44 | 30 | 26 | 26 | 86 | 410 | 446 | 391 | 250 | 115 |
| 5 | 114 | 41 | 40 | 31 | 26 | 26 | 105 | 403 | 446 | 368 | 220 | 115 |
| 6 | 112 | 37 | 41 | 31 | 25 | 28 | 126 | 382 | 468 | 357 | 220 | 197 |
| 7 | 102 | 34 | 38 | 30 | 24 | 29 | 131 | 382 | 548 | 337 | 340 | 193 |
| 8 | 103 | 36 | 36 | 29 | 25 | 31 | 108 | 326 | 620 | 332 | 520 | 308 |
| 9 | 185 | 34 | 30 | 29 | 22 | 32 | 85 | 267 | 645 | 310 | 422 | 1,130 |
| 10 | 127 | 36 | 24 | 28 | 24 | 30 | 78 | 244 | 528 | 400 | 340 | 790 |
| 11 | 110 | 36 | 32 | 28 | 24 | 27 | 76 | 255 | 439 | 430 | 280 | 605 |
| 12 | 103 | 36 | 34 | 28 | 24 | 27 | 63 | 276 | 403 | 400 | 340 | 770 |
| 13 | 96 | 39 | 26 | 28 | 24 | 34 | 58 | 326 | 348 | 340 | 210 | 595 |
| 14 | 93 | 37 | 27 | 28 | 24 | 36 | 53 | 400 | 315 | 300 | 216 | 428 |
| 15 | 85 | 37 | 26 | 28 | 23 | 32 | 48 | 442 | 374 | 260 | 212 | 321 |
| 16 | 79 | 37 | 30 | 28 | 22 | 29 | 47 | 568 | 329 | 240 | 183 | 262 |
| 17 | 74 | 29 | 32 | 27 | 20 | 28 | 48 | 670 | 374 | 220 | 162 | 242 |
| 18 | 73 | 36 | 34 | 26 | 22 | 29 | 69 | 675 | 442 | 210 | 149 | 222 |
| 19 | 69 | 40 | 34 | 27 | 18 | 27 | 78 | 610 | 460 | 200 | 151 | 255 |
| 20 | 65 | 46 | 33 | 28 | 30 | 26 | 72 | 590 | 397 | 200 | 169 | 238 |
| 21 | 64 | 52 | 31 | 26 | 30 | 26 | 78 | 580 | 410 | 200 | 140 | 222 |
| 22 | 63 | 51 | 32 | 27 | 26 | 28 | 110 | 580 | 413 | 201 | 130 | 218 |
| 23 | 59 | 47 | 32 | 26 | 24 | 30 | 144 | 520 | 432 | 225 | 120 | 199 |
| 24 | 55 | 43 | 27 | 24 | 26 | 40 | 187 | 508 | 456 | 269 | 120 | 208 |
| 25 | 53 | 42 | 30 | 26 | 27 | 52 | 238 | 568 | 468 | 225 | 120 | 222 |
| 26 | 51 | 41 | 29 | 26 | 29 | 54 | 267 | 630 | 476 | 208 | 160 | 201 |
| 27 | 48 | 41 | 28 | 26 | 29 | 56 | 298 | 548 | 660 | 203 | 222 | 199 |
| 28 | 49 | 41 | 28 | 26 | 26 | 66 | 337 | 512 | 1,620 | 600 | 205 | 185 |
| 29 | 49 | 42 | 28 | 25 | ------- | 78 | 371 | 460 | 920 | 360 | 185 | 171 |
| 30 | 52 | 42 | 28 | 24 | ------- | 69 | 382 | 453 | 620 | 240 | 160 | 183 |
| 31 | 51 | ------- | 30 | 26 | ------- | 54 | ------- | 472 | ------- | 210 | 144 | ------- |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 185 | 48 | 82.1 | 5,050 |
| November | 52 | 29 | 40.7 | 2,420 |
| December | 44 | 24 | 32.8 | 2,020 |
| January | 31 | 24 | 27.6 | 1,700 |
| February | 30 | 18 | 24.9 | 1,380 |
| March | 78 | 26 | 36.4 | 2,240 |
| April | 382 | 47 | 131 | 7,800 |
| May | 675 | 244 | 459 | 28,200 |
| June | 1,620 | 315 | 517 | 30,800 |
| July | 600 | 200 | 310 | 19,100 |
| August | 520 | 120 | 220 | 13,500 |
| September | 1,130 | 115 | 306 | 18,200 |
| The year | 1,620 | 18 | 183 | 132,000 |

### UNCOMPAHGRE RIVER NEAR COLONA, COLO.

LOCATION.—Water-stage recorder in NE. ¼ sec. 32, T. 47 N., R. 8 W., 3 miles south of Colona and a short distance below mouth of Billy Creek.

DRAINAGE AREA.—419 square miles.

RECORDS AVAILABLE.—April, 1917, to September, 1927.

EXTREMES.—Maximum discharge during year, 3,400 second-feet June 28 (gage height, 5.45 feet); minimum probably occurred during winter.

1917–1927: Maximum discharge, 4,080 second-feet June 13 and 14, 1921; minimum, 16 second-feet September 3, 1918.

REMARKS.—A few small diversions above station. Records of daily discharge furnished by Bureau of Reclamation.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 113 | 126 | 115 | ------ | 143 | 735 | 815 | 1,060 | 350 | 306 |
| 2 | 113 | 120 | 115 | ------ | 156 | 730 | 855 | 935 | 425 | 295 |
| 3 | 190 | 120 | 115 | ------ | 170 | 755 | 740 | 865 | 498 | 270 |
| 4 | 223 | 118 | 112 | ------ | 230 | 735 | 735 | 810 | 415 | 265 |
| 5 | 211 | 117 | 112 | ------ | 207 | 670 | 715 | 725 | 370 | 200 |
| 6 | 223 | 117 | 110 | ------ | 235 | 605 | 785 | 615 | 371 | 280 |
| 7 | 227 | 118 | 107 | ------ | 277 | 714 | 895 | 560 | 590 | 465 |
| 8 | 227 | 113 | 100 | ------ | 258 | 545 | 1,040 | 535 | 825 | 505 |
| 9 | 353 | 100 | 81 | ------ | 225 | 455 | 1,120 | 535 | 690 | 960 |
| 10 | 290 | 102 | ------ | ------ | 230 | 415 | 1,100 | 625 | 560 | 1,190 |
| 11 | 222 | 107 | ------ | ------ | 253 | 455 | 900 | 700 | 460 | 890 |
| 12 | 207 | 112 | ------ | ------ | 195 | 515 | 835 | 625 | 544 | 970 |
| 13 | 195 | 116 | ------ | ------ | 185 | 665 | 775 | 540 | 482 | 990 |
| 14 | 175 | 115 | ------ | ------ | 172 | 845 | 575 | 495 | 435 | 780 |
| 15 | 180 | 105 | ------ | ------ | 156 | 865 | 885 | 445 | 457 | 580 |
| 16 | 171 | 115 | ------ | ------ | 150 | 970 | 760 | 415 | 405 | 500 |
| 17 | 165 | 94 | ------ | ------ | 148 | 1,110 | 745 | 400 | 348 | 536 |
| 18 | 163 | 102 | ------ | ------ | 152 | 1,240 | 1,000 | 370 | 330 | 510 |
| 19 | 161 | 117 | ------ | ------ | 210 | 1,170 | 1,120 | 360 | 328 | 487 |
| 20 | 150 | 112 | ------ | ------ | 202 | 1,100 | 980 | 340 | 349 | 430 |
| 21 | 148 | 112 | ------ | ------ | 202 | 1,000 | 900 | 340 | 301 | 377 |
| 22 | 145 | 112 | ------ | ------ | 243 | 925 | 870 | 350 | 294 | 352 |
| 23 | 140 | 112 | ------ | ------ | 325 | 835 | 910 | 365 | 283 | 370 |
| 24 | 134 | 115 | ------ | ------ | 430 | 740 | 990 | 405 | 270 | 340 |
| 25 | 122 | 115 | ------ | ------ | 545 | 855 | 970 | 385 | 270 | 440 |
| 26 | 117 | 110 | ------ | 170 | 615 | 985 | 935 | 360 | 327 | 425 |
| 27 | 124 | 117 | ------ | 151 | 580 | 885 | 1,100 | 365 | 505 | 415 |
| 28 | 124 | 100 | ------ | 152 | 640 | 795 | 2,680 | 705 | 495 | 377 |
| 29 | 124 | 107 | ------ | 165 | 675 | 755 | 1,900 | 595 | 438 | 358 |
| 30 | 137 | 112 | ------ | 170 | 713 | 707 | 1,320 | 460 | 380 | 397 |
| 31 | 124 | ------ | ------ | 157 | ------ | 730 | ------ | 395 | 345 | ------ |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 353 | 113 | 174 | 10,700 |
| November | 126 | 94 | 112 | 6,660 |
| December 1–9 | 115 | 81 | 107 | 1,910 |
| March 26–31 | 170 | 151 | 161 | 1,920 |
| April | 713 | 143 | 297 | 17,700 |
| May | 1,240 | 415 | 791 | 48,600 |
| June | 2,680 | 575 | 1,000 | 59,500 |
| July | 1,060 | 340 | 538 | 33,100 |
| August | 825 | 270 | 424 | 26,100 |
| September | 1,190 | 200 | 509 | 30,300 |

### UNCOMPAHGRE RIVER AT DELTA, COLO.

LOCATION.—Water-stage recorder in NW. ¼ sec. 24, T. 15 S., R. 96 W., at railroad bridge half a mile west of Delta and 1½ miles above mouth.

DRAINAGE AREA.—1,110 square miles.

RECORDS AVAILABLE.—April, 1924, to September, 1927. From April, 1903, to October, 1923, at station 3½ miles upstream.

EXTREMES.—Maximum discharge during year, 2,880 second-feet June 29 (gage height, 5.9 feet); minimum, 40 second-feet April 21 (gage height, 1.41 feet).

1903–1927 Maximum discharge, that of June 29, 1927; minimum, 7 second-feet several days during July, 1910.

REMARKS. Records good except those for period June 29 to July 31, which are fair. Practically entire natural flow of river diverted above station. Field data furnished by United States Bureau of Reclamation.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 181 | 390 | | 108 | 459 | 202 | 770 | 284 | 357 |
| 2 | 215 | 373 | | 71 | 401 | 293 | 493 | 336 | 372 |
| 3 | 384 | | | 66 | 313 | 273 | 463 | 603 | 382 |
| 4 | 646 | | | 79 | 263 | 229 | 560 | 656 | 350 |
| 5 | 573 | | | 164 | 335 | 273 | 537 | 623 | 324 |
| 6 | 593 | | | 148 | 283 | 309 | 339 | 584 | 338 |
| 7 | 560 | | | 164 | 309 | 436 | 183 | 1,280 | 574 |
| 8 | 471 | | | 197 | 687 | 653 | 157 | 1,310 | 550 |
| 9 | 496 | | | 164 | 864 | 703 | 198 | 1,260 | 805 |
| 10 | 540 | | | 101 | 573 | 606 | 608 | 882 | 1,540 |
| 11 | 546 | | | 181 | 447 | 384 | 524 | 521 | 1,110 |
| 12 | 540 | | | 181 | 546 | 687 | 299 | 603 | 705 |
| 13 | 514 | | | 126 | 653 | 1,330 | 200 | 628 | 1,380 |
| 14 | 483 | | | 118 | 694 | 1,030 | 196 | 412 | 1,160 |
| 15 | 465 | | | 148 | 586 | 1,220 | 160 | 463 | 938 |
| 16 | 430 | | | 133 | 680 | 1,280 | 147 | 509 | 747 |
| 17 | 384 | | | 91 | 707 | 775 | 141 | 360 | 550 |
| 18 | 413 | | | 87 | 728 | 939 | 135 | 275 | 669 |
| 19 | 384 | | | 81 | 586 | 1,050 | 109 | 209 | 588 |
| 20 | 356 | | | 68 | 530 | 1,020 | 95 | 282 | 498 |
| 21 | 335 | | | 68 | 470 | 891 | 98 | 306 | 491 |
| 22 | 314 | | | 115 | 400 | 653 | 133 | 252 | 453 |
| 23 | 335 | | | 156 | 335 | 502 | 170 | 231 | 623 |
| 24 | 309 | | | 206 | 283 | 490 | 202 | 215 | 484 |
| 25 | 293 | | | 303 | 234 | 442 | 219 | 205 | 742 |
| 26 | 273 | | | 843 | 356 | 345 | 202 | 225 | 747 |
| 27 | 268 | | | 395 | 436 | 436 | 183 | 308 | 700 |
| 28 | 278 | | 197 | 367 | 243 | 1,280 | 501 | 396 | 638 |
| 29 | 303 | | 197 | 553 | 234 | 2,530 | 515 | 428 | 598 |
| 30 | 345 | | 164 | 390 | 229 | 1,690 | 378 | 398 | 684 |
| 31 | 390 | | 129 | | 234 | | 325 | 374 | |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 646 | 181 | 407 | 25,000 |
| April | 843 | 66 | 196 | 11,700 |
| May | 864 | 229 | 455 | 28,000 |
| June | 2,530 | 202 | 765 | 45,500 |
| July | 770 | 95 | 298 | 18,300 |
| August | 1,310 | 205 | 497 | 30,600 |
| September | 1,540 | 324 | 670 | 39,900 |

### SAN MIGUEL RIVER AT NATURITA, COLO.

LOCATION.—Water-stage recorder in T. 46 N., on line between Rs. 15 and 16 W., in Naturita, half a mile above mouth of Basin Creek.

DRAINAGE AREA.—1,080 square miles.

RECORDS AVAILABLE.—April, 1918, to September, 1927.

EXTREMES.—Maximum discharge during year, 1,980 second-feet June 28 (gage height, 6.44 feet); minimum, 49 second-feet November 23 (gage height, 0.29 foot).

1918–1927: Maximum discharge, 6,000 second-feet May 4, 1921 (gage height, 7.5 feet); minimum, 38 second-feet August 31, 1918 (gage height, 0.05 foot).

REMARKS.—Diversions for irrigation above station. Mean discharge for December, January, and February estimated. Complete records furnished by State engineer of Colorado.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 84 | 123 | 101 | 316 | 1,290 | 936 | 1,130 | 289 | 377 |
| 2 | 89 | 126 | 121 | 524 | 1,300 | 856 | 909 | 306 | 355 |
| 3 | 120 | 123 | 134 | 708 | 1,300 | 778 | 830 | 420 | 330 |
| 4 | 136 | 125 | 141 | 737 | 1,310 | 742 | 783 | 449 | 334 |
| 5 | 149 | 120 | 136 | 830 | 1,360 | 693 | 732 | 355 | 348 |
| 6 | 151 | 114 | 121 | 958 | 1,190 | 768 | 636 | 428 | 370 |
| 7 | 151 | 116 | 116 | 866 | 1,250 | 804 | 586 | 515 | 510 |
| 8 | 168 | 111 | 114 | 851 | 1,140 | 882 | 655 | 627 | 793 |
| 9 | 192 | 102 | 123 | 814 | 952 | 947 | 664 | 546 | 1,600 |
| 10 | 202 | 99 | 114 | 757 | 888 | 952 | 550 | 471 | 1,870 |
| 11 | 170 | 106 | 101 | 773 | 1,010 | 804 | 600 | 416 | 1,420 |
| 12 | 166 | 109 | 99 | 742 | 1,000 | 882 | 632 | 433 | 1,230 |
| 13 | 175 | 113 | 108 | 441 | 915 | 877 | 493 | 462 | 1,630 |
| 14 | 162 | 109 | 114 | 359 | 1,100 | 762 | 445 | 408 | 1,420 |
| 15 | 155 | 104 | 116 | 355 | 1,140 | 830 | 385 | 416 | 1,110 |
| 16 | 143 | 109 | 109 | 320 | 1,300 | 888 | 359 | 404 | 866 |
| 17 | 139 | 102 | 96 | 309 | 1,370 | 737 | 316 | 359 | 778 |
| 18 | 143 | 96 | 109 | 366 | 1,550 | 893 | 289 | 320 | 824 |
| 19 | 141 | 123 | 104 | 595 | 1,540 | 989 | 267 | 334 | 898 |
| 20 | 139 | 102 | 92 | 595 | 1,450 | 936 | 289 | 348 | 752 |
| 21 | 134 | 76 | 89 | 669 | 1,310 | 893 | 344 | 312 | 674 |
| 22 | 134 | 66 | 108 | 872 | 1,250 | 835 | 351 | 286 | 609 |
| 23 | 130 | 62 | 113 | 1,080 | 1,110 | 840 | 420 | 283 | 609 |
| 24 | 128 | 81 | 125 | 1,220 | 1,000 | 851 | 397 | 276 | 669 |
| 25 | 123 | 101 | 145 | 1,280 | 1,010 | 866 | 351 | 261 | 778 |
| 26 | 120 | 118 | 170 | 1,320 | 1,130 | 866 | 344 | 355 | 773 |
| 27 | 118 | 123 | 205 | 1,280 | 1,070 | 1,060 | 351 | 618 | 688 |
| 28 | 120 | 121 | 238 | 1,260 | 995 | 2,610 | 420 | 679 | 650 |
| 29 | 125 | 113 | 302 | 1,220 | 909 | 2,220 | 366 | 618 | 623 |
| 30 | 126 | 121 | 309 | 1,230 | 840 | 1,450 | 320 | 484 | 632 |
| 31 | 118 | ------- | 246 | ------- | 814 | ------- | 309 | 433 | ------- |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 202 | 84 | 140 | 8,610 |
| November | 126 | 62 | 107 | 6,370 |
| December | ------- | ------- | 105 | 6,460 |
| January | ------- | ------- | 100 | 6,150 |
| February | ------- | ------- | 105 | 5,830 |
| March | 309 | 89 | 139 | 8,550 |
| April | 1,320 | 309 | 788 | 46,900 |
| May | 1,550 | 814 | 1,150 | 70,700 |
| June | 2,610 | 693 | 982 | 58,400 |
| July | 1,130 | 267 | 501 | 30,800 |
| August | 679 | 261 | 416 | 25,600 |
| September | 1,870 | 330 | 817 | 48,600 |
| The year | 2,610 | ------- | 447 | 323,000 |

## GREEN RIVER BASIN

### GREEN RIVER NEAR DANIEL, WYO.

LOCATION.—Chain gage near line between Tps. 32 and 33 N., R. 110 W., 6 miles southeast of Daniel.
DRAINAGE AREA.—932 square miles.
RECORDS AVAILABLE.—April, 1915, to September, 1927.
EXTREMES.—Maximum discharge during year, 5,480 second-feet June 30 (gage height, 5.66 feet); minimum occurred during winter.
1915–1927: Maximum discharge, 8,750 second-feet June 16, 1918 (gage height, 7.0 feet); minimum occurred during winter.
REMARKS.—Records good except those for periods of missing gage heights, April 1–16, May 14–18, and 25–27, which are fair. Discharge estimated November 19–24 because of ice effect. Diversions for irrigation above station. Flow regulated by natural lakes in Green River Basin.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|
| 1 | 309 | 239 | | 1,080 | 1,340 | 4,310 | 1,040 | 509 |
| 2 | 309 | 236 | | 1,210 | 1,030 | 3,870 | 1,040 | 509 |
| 3 | 309 | 236 | | 1,550 | 1,100 | 3,250 | 1,000 | 509 |
| 4 | 309 | 236 | | 1,610 | 1,270 | 2,260 | 890 | 489 |
| 5 | 296 | 242 | | 1,570 | 1,580 | 1,700 | 796 | 453 |
| 6 | 287 | 249 | 330 | 1,410 | 1,580 | 1,140 | 780 | 405 |
| 7 | 287 | 236 | | 1,260 | 1,960 | 1,520 | 754 | 415 |
| 8 | 287 | 246 | | 1,230 | 2,440 | 1,850 | 737 | 425 |
| 9 | 287 | 274 | | 1,320 | 2,700 | 1,850 | 728 | 1,030 |
| 10 | 287 | 282 | | 1,260 | 2,940 | 1,880 | 754 | 1,180 |
| 11 | 287 | 287 | 320 | 1,230 | 3,470 | 1,850 | 771 | 1,380 |
| 12 | 287 | 287 | 280 | 1,120 | 3,610 | 1,850 | 796 | 1,250 |
| 13 | 249 | 249 | 270 | 1,160 | 3,960 | 1,850 | 737 | 1,210 |
| 14 | 249 | 246 | 240 | 1,320 | 4,310 | 1,780 | 780 | 1,050 |
| 15 | 264 | 242 | 200 | 1,500 | 4,400 | 1,620 | 737 | 920 |
| 16 | 264 | 236 | 210 | 1,760 | 4,570 | 1,440 | 712 | 796 |
| 17 | 264 | 236 | 242 | 2,040 | 4,180 | 1,340 | 632 | 648 |
| 18 | 256 | 233 | 242 | 2,420 | 3,530 | 1,230 | 580 | 632 |
| 19 | 264 | 230 | 215 | 3,060 | 3,490 | 1,170 | 523 | 618 |
| 20 | 264 | 230 | 207 | 3,040 | 3,290 | 1,170 | 509 | 565 |
| 21 | 249 | 230 | 175 | 2,750 | 3,000 | 1,170 | 530 | 509 |
| 22 | 249 | 232 | 230 | 3,430 | 2,440 | 1,170 | 625 | 509 |
| 23 | 246 | 235 | 233 | 2,940 | 2,870 | 1,170 | 648 | 558 |
| 24 | 256 | 240 | 256 | 2,660 | 3,530 | 1,170 | 632 | 688 |
| 25 | 246 | 242 | 313 | 2,120 | 3,740 | 1,200 | 618 | 910 |
| 26 | 249 | 236 | 380 | 1,800 | 3,490 | 1,230 | 610 | 900 |
| 27 | 253 | 236 | 434 | 1,560 | 2,620 | 1,160 | 580 | 824 |
| 28 | 264 | 236 | 612 | 1,440 | 3,130 | 1,100 | 565 | 780 |
| 29 | 249 | 239 | 754 | 1,400 | 4,570 | 1,070 | 544 | 771 |
| 30 | 242 | 242 | 940 | 1,400 | 5,060 | 1,030 | 509 | 771 |
| 31 | 236 | | | 1,400 | | 1,030 | 509 | |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 309 | 236 | 269 | 16,500 |
| November | 287 | 230 | 244 | 14,500 |
| April | 940 | 175 | 335 | 19,900 |
| May | 3,430 | 1,080 | 1,780 | 109,000 |
| June | 5,060 | 1,030 | 3,040 | 181,000 |
| July | 4,310 | 1,030 | 1,660 | 102,000 |
| August | 1,040 | 509 | 699 | 43,000 |
| September | 1,380 | 405 | 740 | 44,000 |

### GREEN RIVER AT GREEN RIVER, WYO.

LOCATION.—Chain gage in sec. 22, T. 18 N., R. 107 W., 100 feet below railroad bridge at Green River. Zero of gage is 6,071.06 feet above mean sea level.
DRAINAGE AREA.—7,670 square miles.
RECORDS AVAILABLE.—May, 1895, to October, 1906; March, 1915, to September, 1927.
EXTREMES.—Maximum discharge during year, 16,700 second-feet July 1 (gage height, 7 feet); minimum occurred during winter.
1895–1906, 1915–1927: Maximum discharge, 22,200 second-feet June 19, 1918 (gage height, 12.3 feet); minimum, 160 second-feet November 17, 1898.
REMARKS.—Records good except those for periods affected by ice, March 1–13 and 16–26, which are fair. Diversions for irrigation above station.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 774 | 624 | | 1,540 | 2,660 | 2,990 | 16,200 | 2,510 | 1,260 |
| 2 | 784 | 615 | | 1,850 | 2,910 | 2,700 | 15,200 | 2,420 | 1,260 |
| 3 | 812 | 615 | | 1,540 | 3,330 | 2,630 | 11,100 | 2,340 | 1,200 |
| 4 | 840 | 588 | | 1,330 | 3,370 | 2,610 | 8,200 | 2,290 | 1,200 |
| 5 | 802 | 606 | | 1,260 | 2,990 | 2,700 | 7,050 | 2,220 | 1,080 |
| 6 | 746 | 588 | 700 | 1,080 | 2,990 | 3,110 | 7,800 | 2,160 | 1,080 |
| 7 | 726 | 606 | | 1,020 | 2,970 | 3,330 | 7,800 | 2,110 | 1,020 |
| 8 | 688 | 588 | | 1,020 | 2,890 | 3,890 | 6,680 | 2,040 | 1,080 |
| 9 | 670 | 606 | | 1,080 | 2,930 | 4,930 | 5,590 | 1,990 | 1,020 |
| 10 | 670 | 606 | | 1,260 | 2,650 | 7,050 | 5,250 | 1,950 | 3,050 |
| 11 | 670 | 588 | 725 | 1,260 | 2,290 | 8,280 | 4,930 | 1,950 | 2,660 |
| 12 | 679 | 624 | 750 | 1,200 | 2,110 | 9,350 | 4,630 | 1,920 | 2,110 |
| 13 | 670 | 679 | 766 | 920 | 1,950 | 10,300 | 4,350 | 1,950 | 2,200 |
| 14 | 660 | 642 | 748 | 920 | 2,150 | 11,600 | 4,350 | 1,940 | 2,480 |
| 15 | 660 | 606 | 775 | 890 | 2,650 | 12,900 | 4,090 | 1,940 | 2,480 |
| 16 | 660 | 579 | 730 | 820 | 3,110 | 13,700 | 3,840 | 1,850 | 2,380 |
| 17 | 651 | 562 | 784 | 775 | 3,720 | 13,600 | 3,600 | 1,850 | 2,290 |
| 18 | 660 | 553 | 730 | 802 | 4,780 | 12,900 | 3,370 | 1,770 | 2,110 |
| 19 | 642 | 462 | 820 | 840 | 6,020 | 12,200 | 3,150 | 1,690 | 2,200 |
| 20 | 642 | 462 | 900 | 870 | 6,980 | 11,100 | 3,050 | 1,610 | 2,020 |
| 21 | 633 | 536 | 730 | 890 | 6,680 | 11,200 | 2,950 | 1,470 | 1,850 |
| 22 | 633 | 746 | 658 | 920 | 5,950 | 11,800 | 2,860 | 1,400 | 1,690 |
| 23 | 642 | 764 | 624 | 802 | 4,780 | 11,500 | 2,860 | 1,400 | 1,620 |
| 24 | 624 | 802 | 676 | 860 | 4,300 | 10,700 | 2,760 | 1,470 | 1,690 |
| 25 | 624 | 784 | 730 | 970 | 3,840 | 10,200 | 2,860 | 1,470 | 2,200 |
| 26 | 606 | 774 | 730 | 1,260 | 3,370 | 10,400 | 2,760 | 1,620 | 2,020 |
| 27 | 606 | 755 | 890 | 1,770 | 2,990 | 10,700 | 2,760 | 1,620 | 2,570 |
| 28 | 624 | 774 | 1,110 | 2,110 | 2,990 | 10,900 | 2,660 | 1,540 | 2,290 |
| 29 | 615 | 726 | 1,080 | 2,110 | 3,190 | 12,800 | 2,660 | 1,400 | 2,110 |
| 30 | 615 | 688 | 1,200 | 2,380 | 3,370 | 14,500 | 2,570 | 1,400 | 1,940 |
| 31 | 633 | ------- | 1,400 | ------- | 3,190 | ------- | 2,480 | 1,400 | ------- |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 840 | 606 | 676 | 41,600 |
| November | 802 | 462 | 638 | 38,000 |
| March | 1,400 | 624 | 792 | 48,700 |
| April | 2,380 | 775 | 1,210 | 72,000 |
| May | 6,980 | 1,950 | 3,550 | 218,000 |
| June | 14,500 | 2,610 | 8,890 | 529,000 |
| July | 16,200 | 2,480 | 5,170 | 318,000 |
| August | 2,510 | 1,400 | 1,830 | 113,000 |
| September | 3,050 | 1,020 | 1,870 | 111,000 |

### GREEN RIVER AT GREEN RIVER, UTAH

LOCATION.—Water-stage recorder in NW. ¼ SW. ¼ sec. 15, T. 21 S., R. 16 E., 1 mile southeast of Green River and 22 miles above San Rafael River.

DRAINAGE AREA.—40,600 square miles.

RECORDS AVAILABLE.—October, 1894, to October, 1899; February, 1905, to December, 1911; June, 1924, to September, 1927; December, 1910, to June, 1924, at Little Valley, 7 miles downstream.

EXTREMES.—Maximum discharge during year, 46,300 second-feet June 28 (gage height, 13.2 feet); minimum mean daily discharge (estimated), 875 second-feet December 18.

1894–1899, 1905–1927: Maximum discharge, 68,800 second-feet May 29, 1897; minimum, 510 second-feet December 1, 1919 (gage height, −0.95 foot).

REMARKS.—Records fair. Discharge estimated because of ice effect December 19 to February 6, and because of missing gage-height record November 13, December 16–18, February 9, 13, 15, 16, April 3, September 2, 3, and 5. Diversions for irrigation above station. Some discharge measurements furnished by Utah Power & Light Co.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1,570 | 1,550 | 2,230 | | 1,800 | 2,330 | 5,290 | 13,900 | 16,200 | 24,800 | 5,150 | 3,310 |
| 2 | 1,800 | 1,550 | 2,230 | | 1,850 | 2,420 | 5,740 | 16,800 | 14,900 | 24,200 | 4,890 | 3,090 |
| 3 | 2,370 | 1,560 | 2,220 | | 1,900 | 2,520 | 5,940 | 18,000 | 13,700 | 24,000 | 4,890 | 2,880 |
| 4 | 2,320 | 1,570 | 2,220 | | 1,860 | 2,840 | 6,130 | 19,500 | 13,000 | 24,300 | 4,720 | 2,660 |
| 5 | 2,840 | 1,590 | 2,200 | 1,400 | 1,830 | 3,520 | 6,620 | 21,600 | 12,500 | 26,300 | 5,020 | 2,560 |
| 6 | 2,440 | 1,630 | 2,230 | | 1,900 | 3,260 | 6,810 | 22,600 | 12,400 | 24,400 | 5,080 | 2,460 |
| 7 | 2,560 | 1,640 | 2,330 | | 2,080 | 3,440 | 6,780 | 21,900 | 12,200 | 18,800 | 4,660 | 3,110 |
| 8 | 2,440 | 1,630 | 2,300 | | 2,150 | 4,020 | 7,410 | 21,500 | 12,500 | 16,000 | 4,530 | 10,500 |
| 9 | 2,260 | 1,600 | 2,350 | 1,550 | 2,380 | 4,500 | 7,490 | 20,300 | 13,900 | 16,100 | 4,340 | 8,630 |
| 10 | 2,120 | 1,590 | 2,440 | 1,600 | 2,620 | 4,130 | 6,740 | 21,300 | 15,600 | 15,600 | 4,020 | 8,630 |
| 11 | 2,030 | 1,620 | 2,460 | 1,650 | 1,940 | 4,600 | 6,500 | 23,000 | 17,100 | 14,500 | 3,820 | 6,780 |
| 12 | 2,000 | 1,640 | 2,370 | 1,690 | 1,730 | 4,470 | 7,130 | 19,500 | 19,800 | 13,400 | 3,870 | 12,500 |
| 13 | 1,940 | 1,650 | 2,320 | 1,700 | 2,050 | 4,130 | 7,620 | 15,300 | 22,900 | 12,200 | 3,990 | 26,400 |
| 14 | 1,930 | 1,660 | 1,970 | 1,700 | 2,370 | 3,570 | 7,950 | 13,000 | 25,400 | 11,100 | 3,820 | 27,500 |
| 15 | 1,890 | 1,700 | 1,650 | 1,750 | 2,180 | 3,090 | 8,370 | 11,400 | 26,300 | 10,400 | 3,730 | 18,900 |
| 16 | 1,830 | 1,730 | 1,400 | 1,750 | 1,980 | 3,180 | 7,990 | 12,000 | 27,000 | 9,430 | 3,340 | 10,200 |
| 17 | 1,800 | 1,730 | 1,150 | 1,800 | 1,780 | 3,140 | 6,660 | 13,900 | 29,400 | 8,590 | 3,210 | 7,980 |
| 18 | 1,800 | 1,740 | 875 | 1,800 | 1,750 | 3,620 | 5,600 | 19,200 | 30,700 | 7,860 | 3,090 | 7,720 |
| 19 | 1,820 | 1,710 | 900 | 1,850 | 1,760 | 3,840 | 5,180 | 24,500 | 32,700 | 7,290 | 3,020 | 7,670 |
| 20 | 1,800 | 1,750 | | 1,850 | 1,790 | 3,460 | 4,820 | 29,200 | 30,900 | 6,890 | 2,970 | 7,500 |
| 21 | 1,750 | 1,820 | | 1,890 | 1,800 | 3,360 | 4,440 | 31,400 | 29,800 | 6,540 | 2,790 | 6,990 |
| 22 | 1,710 | 1,800 | | 1,700 | 1,820 | 3,140 | 4,690 | 31,000 | 29,000 | 7,050 | 2,750 | 6,580 |
| 23 | 1,690 | 1,760 | | 1,650 | 1,820 | 2,840 | 6,130 | 29,500 | 27,000 | 6,700 | 2,770 | 7,630 |
| 24 | 1,660 | 1,740 | | 1,750 | 1,890 | 2,790 | 6,130 | 28,100 | 25,100 | 5,770 | 2,770 | 6,580 |
| 25 | 1,640 | 1,790 | | 1,850 | 2,000 | 2,860 | 5,560 | 27,300 | 24,000 | 5,600 | 2,750 | 6,380 |
| 26 | 1,650 | 1,900 | 1,200 | 1,800 | 2,180 | 3,280 | 4,980 | 25,200 | 22,300 | 5,700 | 2,750 | 7,630 |
| 27 | 1,630 | 1,900 | | 1,800 | 2,330 | 3,620 | 4,950 | 21,300 | 21,000 | 5,980 | 2,930 | 10,200 |
| 28 | 1,620 | 2,040 | | 1,750 | 2,350 | 3,990 | 6,020 | 18,600 | 25,900 | 6,500 | 3,160 | 8,530 |
| 29 | 1,580 | 2,120 | | 1,750 | ------- | 4,410 | 7,820 | 17,900 | 30,500 | 5,420 | 3,760 | 6,870 |
| 30 | 1,580 | 2,150 | | 1,800 | ------- | 4,720 | 10,500 | 17,700 | 28,300 | 5,520 | 4,190 | 7,070 |
| 31 | 1,570 | ------- | | 1,800 | ------- | 4,820 | ------- | 16,800 | -------- | 5,390 | 3,620 | ------- |

| Month | Discharge in second-feet — Maximum | Minimum | Mean | Run-off in acre-feet |
|---|---|---|---|---|
| October | 2,840 | 1,570 | 1,920 | 118,000 |
| November | 2,150 | 1,550 | 1,730 | 103,000 |
| December | 2,460 | 875 | 1,690 | 104,000 |
| January | 1,850 | ---------- | 1,660 | 102,000 |
| February | 2,620 | 1,730 | 2,000 | 111,000 |
| March | 4,820 | 2,330 | 3,550 | 218,000 |
| April | 10,500 | 4,440 | 6,470 | 385,000 |
| May | 31,400 | 11,400 | 20,700 | 1,270,000 |
| June | 32,700 | 12,200 | 22,100 | 1,320,000 |
| July | 26,300 | 5,390 | 12,300 | 756,000 |
| August | 5,150 | 2,750 | 3,750 | 231,000 |
| September | 27,500 | 2,460 | 8,510 | 506,000 |
| The year | 32,700 | 875 | 7,220 | 5,220,000 |

### NEW FORK NEAR BOULDER, WYO.

LOCATION.—Staff gage about sec. 8, T. 32 N., R. 108 W., 1 mile west of Boulder and one-eighth mile above Boulder Creek.
DRAINAGE AREA.—578 square miles.
RECORDS AVAILABLE.—May, 1915, to September, 1927.
EXTREMES.—Maximum discharge during year, 5,320 second-feet June 30 (gage height, 7.35 feet); minimum probably occurred during winter.
1915–1927: Maximum discharge, 12,300 second-feet June 17, 1918 (gage height, 8.7 feet); minimum, 42 second-feet December 15–17, 1915.
REMARKS.—Records good. Discharge estimated because of missing gage-height record April 1, 2, and June 29, 30. Diversions for irrigation above station.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|
| 1 | 190 | 112 | 160 | 284 | 484 | 3,950 | 720 | 344 |
| 2 | 197 | 121 | 155 | 309 | 460 | 2,930 | 720 | 326 |
| 3 | 164 | 121 | 148 | 301 | 460 | 2,560 | 720 | 309 |
| 4 | 150 | 121 | 137 | 322 | 460 | 2,210 | 660 | 297 |
| 5 | 141 | 118 | 132 | 344 | 484 | 2,440 | 660 | 288 |
| 6 | 147 | 125 | 117 | 367 | 484 | 2,320 | 605 | 276 |
| 7 | 141 | 123 | 154 | 413 | 531 | 2,100 | 605 | 261 |
| 8 | 141 | 118 | 154 | 413 | 752 | 1,900 | 605 | 257 |
| 9 | 141 | 109 | 154 | 390 | 1,130 | 1,800 | 580 | 367 |
| 10 | 136 | 107 | 117 | 367 | 1,450 | 1,800 | 580 | 390 |
| 11 | 130 | 105 | 132 | 344 | 1,800 | 1,710 | 555 | 413 |
| 12 | 130 | 103 | 122 | 344 | 2,100 | 1,620 | 531 | 460 |
| 13 | 130 | 99 | 122 | 322 | 2,440 | 1,530 | 507 | 580 |
| 14 | 130 | 99 | 122 | 309 | 2,930 | 1,530 | 507 | 660 |
| 15 | 130 | 116 | 117 | 344 | 3,340 | 1,450 | 507 | 660 |
| 16 | 128 | 121 | 117 | 322 | 3,060 | 1,370 | 484 | 660 |
| 17 | 125 | 125 | 122 | 390 | 3,060 | 1,290 | 484 | 660 |
| 18 | 128 | 130 | 132 | 555 | 2,800 | 1,210 | 460 | 632 |
| 19 | 125 | 144 | 127 | 752 | 2,800 | 1,130 | 413 | 580 |
| 20 | 125 | 130 | 117 | 850 | 3,060 | 1,060 | 390 | 555 |
| 21 | 125 | 130 | 102 | 885 | 3,060 | 1,020 | 367 | 531 |
| 22 | 125 | 130 | 113 | 850 | 3,060 | 990 | 390 | 531 |
| 23 | 121 | 141 | 151 | 752 | 2,930 | 955 | 390 | 507 |
| 24 | 121 | 141 | 265 | 660 | 2,800 | 955 | 367 | 507 |
| 25 | 121 | 141 | 344 | 605 | 3,060 | 955 | 367 | 605 |
| 26 | 121 | 141 | 418 | 531 | 3,060 | 920 | 367 | 605 |
| 27 | 125 | 141 | 349 | 507 | 3,060 | 850 | 367 | 555 |
| 28 | 130 | 136 | 297 | 507 | 3,640 | 818 | 344 | 507 |
| 29 | 125 | 130 | 261 | 507 | 4,290 | 785 | 344 | 507 |
| 30 | 121 | 141 | 257 | 507 | 5,030 | 785 | 344 | 555 |
| 31 | 109 | | | 507 | | 752 | 367 | |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 197 | 109 | 135 | 8,300 |
| November | 144 | 99 | 124 | 7,380 |
| April | 418 | 102 | 174 | 10,400 |
| May | 885 | 284 | 479 | 29,500 |
| June | 5,030 | 460 | 2,270 | 135,000 |
| July | 3,950 | 752 | 1,540 | 94,700 |
| August | 720 | 344 | 494 | 30,400 |
| September | 660 | 257 | 480 | 28,600 |

### PINE CREEK AT PINEDALE, WYO.

LOCATION.—Water-stage recorder in sec. 4, T. 33 N., R. 109 W., at Pinedale, 3 miles above mouth. Zero of gage is 7,164.3 feet above mean sea level.
DRAINAGE AREA.—128 square miles.
RECORDS AVAILABLE.—May, 1915, to September, 1927.
EXTREMES.—Maximum discharge during year, 2,010 second-feet June 28 (gage height, 4.57 feet); minimum occurred during winter.
1915–1927: Maximum discharge, 2,310 second-feet June 17, 1918 (gage height, 5.0 feet); minimum, 4 second-feet November 14–17, 1921.
REMARKS.—Records good between 30 and 800 second-feet, beyond which they are fair. Discharge interpolated because of missing gage-height record November 23–25, 27–30, and April 1–3. Diversions for irrigation above station.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|
| 1 | 30 | 18 | 26 | 31 | 137 | 1,680 | 224 | 85 |
| 2 | 30 | 18 | 26 | 39 | 133 | 1,490 | 216 | 80 |
| 3 | 28 | 17 | 26 | 49 | 129 | 1,280 | 197 | 74 |
| 4 | 26 | 16 | 25 | 56 | 131 | 1,190 | 197 | 74 |
| 5 | 24 | 16 | 25 | 64 | 125 | 1,170 | 200 | 66 |
| 6 | 23 | 16 | 26 | 63 | 131 | 1,110 | 194 | 59 |
| 7 | 24 | 16 | 24 | 63 | 143 | 1,020 | 181 | 50 |
| 8 | 24 | 16 | 25 | 70 | 172 | 953 | 181 | 53 |
| 9 | 24 | 15 | 26 | 71 | 244 | 936 | 169 | 71 |
| 10 | 24 | 15 | 25 | 73 | 325 | 919 | 160 | 90 |
| 11 | 24 | 16 | 22 | 76 | 417 | 902 | 154 | 131 |
| 12 | 23 | 17 | 22 | 70 | 596 | 885 | 145 | 158 |
| 13 | 23 | 19 | 22 | 67 | 776 | 851 | 143 | 178 |
| 14 | 23 | 17 | 22 | 73 | 1,010 | 826 | 135 | 191 |
| 15 | 24 | 17 | 22 | 76 | 1,140 | 784 | 123 | 200 |
| 16 | 24 | 17 | 22 | 88 | 1,200 | 720 | 121 | 200 |
| 17 | 24 | 16 | 22 | 101 | 1,220 | 648 | 116 | 197 |
| 18 | 24 | 17 | 22 | 112 | 1,220 | 588 | 112 | 184 |
| 19 | 23 | 17 | 23 | 133 | 1,260 | 553 | 108 | 172 |
| 20 | 23 | 18 | 22 | 154 | 1,330 | 526 | 104 | 167 |
| 21 | 22 | 17 | 20 | 165 | 1,370 | 507 | 99 | 169 |
| 22 | 22 | 17 | 19 | 175 | 1,350 | 482 | 97 | 151 |
| 23 | 22 | 18 | 20 | 172 | 1,340 | 458 | 97 | 139 |
| 24 | 21 | 19 | 22 | 172 | 1,400 | 440 | 96 | 143 |
| 25 | 21 | 20 | 21 | 160 | 1,470 | 423 | 94 | 149 |
| 26 | 21 | 21 | 19 | 151 | 1,540 | 399 | 94 | 147 |
| 27 | 21 | 21 | 20 | 181 | 1,680 | 361 | 94 | 139 |
| 28 | 21 | 21 | 21 | 191 | 1,890 | 330 | 90 | 135 |
| 29 | 21 | 21 | 22 | 165 | 1,970 | 311 | 90 | 133 |
| 30 | 20 | 21 | 25 | 151 | 1,890 | 279 | 90 | 137 |
| 31 | 19 | ------- | ------- | 141 | ------- | 244 | 88 | ------- |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 30 | 19 | 23.3 | 1,430 |
| November | 21 | 15 | 17.7 | 1,050 |
| April | 26 | 19 | 22.8 | 1,360 |
| May | 191 | 31 | 108 | 6,640 |
| June | 1,970 | 125 | 925 | 55,000 |
| July | 1,680 | 244 | 750 | 46,100 |
| August | 224 | 88 | 136 | 8,360 |
| September | 200 | 50 | 131 | 7,800 |

### BIG SANDY CREEK NEAR FARSON, WYO.

LOCATION.—Water-stage recorder in sec. 18, T. 27 N., R. 106 W., half a mile above headgate of Eden Canal and 18 miles north of Farson.

DRAINAGE AREA.—322 square miles.

RECORDS AVAILABLE.—May, 1915, to September, 1917; April, 1921, to October, 1924; May to September, 1927.

EXTREMES.—Maximum discharge during year, 1,080 second-feet June 29 (gage height, 5.45 feet); minimum probably occurred during winter.

1915–1917, 1921–1924, 1927: Maximum discharge, 1,160 second-feet June 26, 1917 (gage height, 5.65 feet); minimum, 4 second-feet September 1, 1924 (gage height, 1.31 feet).

REMARKS.—Records good. Discharge estimated because of missing gage-height record May 1–9. Diversions for irrigation above station.

*Daily and monthly discharge, in second-feet, 1927*

| Day | May | June | July | Aug. | Sept. | Day | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 100 | 227 | 533 | 97 | 40 | 16 | 197 | 687 | 197 | 43 | 136 |
| 2 | 110 | 217 | 437 | 90 | 36 | 17 | 320 | 670 | 183 | 42 | 125 |
| 3 | 120 | 212 | 378 | 82 | 32 | 18 | 483 | 624 | 167 | 43 | 115 |
| 4 | 140 | 232 | 351 | 78 | 29 | 19 | 568 | 564 | 155 | 40 | 106 |
| 5 | 150 | 265 | 385 | 75 | 27 | 20 | 496 | 631 | 145 | 37 | 96 |
| 6 | 160 | 306 | 437 | 71 | 26 | 21 | 388 | 648 | 138 | 33 | 88 |
| 7 | 180 | 381 | 363 | 66 | 25 | 22 | 320 | 568 | 132 | 37 | 82 |
| 8 | 180 | 473 | 311 | 63 | 27 | 23 | 281 | 533 | 127 | 38 | 79 |
| 9 | 160 | 631 | 289 | 60 | 34 | 24 | 251 | 523 | 129 | 36 | 73 |
| 10 | 153 | 670 | 276 | 59 | 161 | 25 | 232 | 558 | 129 | 36 | 85 |
| 11 | 153 | 670 | 259 | 57 | 97 | 26 | 214 | 554 | 129 | 46 | 108 |
| 12 | 139 | 684 | 248 | 53 | 94 | 27 | 227 | 513 | 129 | 48 | 120 |
| 13 | 112 | 825 | 246 | 51 | 86 | 28 | 270 | 568 | 114 | 46 | 117 |
| 14 | 115 | 845 | 235 | 48 | 102 | 29 | 295 | 829 | 108 | 43 | 114 |
| 15 | 145 | 778 | 214 | 47 | 141 | 30 | 278 | 712 | 103 | 43 | 117 |
| | | | | | | 31 | 243 | ------- | 100 | 46 | ------ |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| May | 568 | 100 | 232 | 14,300 |
| June | 845 | 212 | 553 | 32,900 |
| July | 533 | 100 | 231 | 14,200 |
| August | 97 | 33 | 53.4 | 3,280 |
| September | 161 | 25 | 83.9 | 4,990 |
| The period | | | | 69,700 |

### HAMS FORK AT DIAMONDVILLE, WYO.

LOCATION.—Staff gage in SW. ¼ sec. 24, T. 21 N., R. 116 W., at Diamondville.
DRAINAGE AREA.—386 square miles.
RECORDS AVAILABLE.—May, 1918, to September, 1927.
EXTREMES.—Maximum discharge during year, 1,380 second-feet May 19 (gage height, 3.16 feet); minimum, 9 second-feet November 10 (gage height, 0.86 foot).

1918–1927: Maximum discharge, 3,250 second-feet May 11, 1923 (gage height, 4.55 feet); no flow August 29–31, 1919.

REMARKS.—Records good except those for periods of missing gage heights, April 1–9 and August 14 to September 4, which are fair. Discharge estimated because of ice effect November 15–17. Diversions for irrigation above station.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 22 | 100 | 1,090 | 538 | 354 | 57 | 28 |
| 2 | 19 | 22 | 110 | 1,120 | 530 | 348 | 54 | 24 |
| 3 | 25 | 18 | 120 | 887 | 554 | 330 | 51 | 23 |
| 4 | 25 | 19 | 115 | 770 | 530 | 319 | 53 | 21 |
| 5 | 27 | 17 | 110 | 750 | 530 | 297 | 54 | 18 |
| 6 | 30 | 16 | 100 | 629 | 546 | 275 | 54 | 18 |
| 7 | 28 | 17 | 100 | 612 | 620 | 243 | 62 | 18 |
| 8 | 30 | 15 | 95 | 620 | 710 | 213 | 54 | 24 |
| 9 | 28 | 17 | 90 | 554 | 800 | 191 | 56 | 37 |
| 10 | 29 | 9 | 82 | 507 | 832 | 150 | 56 | 39 |
| 11 | 30 | 16 | 74 | 483 | 821 | 140 | 51 | 36 |
| 12 | 26 | 22 | 60 | 439 | 821 | 117 | 50 | 36 |
| 13 | 27 | 26 | 57 | 522 | 810 | 107 | 50 | 37 |
| 14 | 25 | 31 | 53 | 629 | 865 | 92 | 45 | 37 |
| 15 | 30 | 28 | 54 | 898 | 832 | 80 | 45 | 37 |
| 16 | 27 | 27 | 51 | 992 | 750 | 70 | 40 | 37 |
| 17 | 26 | 28 | 65 | 1,210 | 740 | 68 | 40 | 36 |
| 18 | 24 | 28 | 68 | 1,290 | 740 | 65 | 35 | 35 |
| 19 | 25 | 27 | 84 | 1,370 | 710 | 65 | 30 | 34 |
| 20 | 25 | 27 | 84 | 1,130 | 683 | 57 | 25 | 31 |
| 21 | 25 | 30 | 65 | 932 | 595 | 56 | 28 | 27 |
| 22 | 26 | 27 | 90 | 865 | 515 | 57 | 30 | 31 |
| 23 | 24 | 32 | 150 | 821 | 460 | 56 | 32 | 39 |
| 24 | 25 | 34 | 264 | 710 | 453 | 56 | 35 | 44 |
| 25 | 25 | 35 | 314 | 692 | 439 | 51 | 34 | 46 |
| 26 | 23 | 31 | 546 | 701 | 432 | 56 | 33 | 43 |
| 27 | 22 | 35 | 647 | 579 | 426 | 57 | 32 | 47 |
| 28 | 26 | 27 | 909 | 563 | 426 | 57 | 30 | 50 |
| 29 | 26 | 32 | 992 | 587 | 379 | 57 | 28 | 48 |
| 30 | 27 | 36 | 1,00 | 563 | 348 | 60 | 27 | 51 |
| 31 | 24 | ------ | ------ | 571 | ------ | 59 | 26 | ------ |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 30 | 19 | 25.8 | 1,590 |
| November | 36 | 9 | 25.0 | 1,490 |
| April | 1,000 | 51 | 222 | 13,200 |
| May | 1,370 | 439 | 777 | 47,800 |
| June | 865 | 348 | 614 | 36,500 |
| July | 354 | 51 | 136 | 8,360 |
| August | 62 | 25 | 41.8 | 2,570 |
| September | 51 | 18 | 34.3 | 2,040 |

### LITTLE SNAKE RIVER NEAR LILY, COLO.

LOCATION.—Water-stage recorder in sec. 20, T. 7 N., R. 98 W., near mouth of canyon and 6 miles above mouth of river at Lily.

DRAINAGE AREA.—3,730 square miles.

RECORDS AVAILABLE.—June to August, 1904; May, 1922, to September, 1927.

EXTREMES.—Maximum discharge during year, 7,200 second-feet May 18 (gage height, 8.05 feet); minimum, 23 second-feet September 10 and 11 (gage height, 0.07 foot).

1904, 1922–1927: Maximum discharge, 14,200 second-feet May 27, 1926 (gage height, 10.5 feet); no flow August 7 to September 11, 1924.

REMARKS.—Diversions for irrigation above station. Complete records furnished by State engineer of Colorado.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|
| 1 | 270 | 1,600 | 3,200 | 2,390 | 447 | 80 | 48 |
| 2 | 430 | 1,550 | 3,580 | 2,290 | 499 | 98 | 38 |
| 3 | 210 | 1,550 | 3,990 | 1,900 | 586 | 64 | 36 |
| 4 | 146 | 1,500 | 4,050 | 2,140 | 650 | 80 | 28 |
| 5 | 174 | 1,500 | 3,470 | 2,140 | 716 | 80 | 26 |
| 6 | 178 | 1,440 | 3,030 | 2,090 | 750 | 98 | 26 |
| 7 | 136 | 1,380 | 2,810 | 2,140 | 920 | 67 | 25 |
| 8 | 152 | 1,440 | 3,250 | 2,140 | 990 | 44 | 25 |
| 9 | 126 | 1,460 | 3,580 | 2,290 | 1,060 | 36 | 25 |
| 10 | 132 | 1,500 | 2,810 | 2,540 | 990 | 38 | 23 |
| 11 | 144 | 1,540 | 2,590 | 2,700 | 886 | 36 | 23 |
| 12 | 156 | 1,590 | 2,440 | 2,860 | 852 | 36 | 24 |
| 13 | 191 | 1,630 | 2,590 | 2,540 | 886 | 36 | 25 |
| 14 | 136 | 1,680 | 3,580 | 2,920 | 818 | 36 | 64 |
| 15 | 126 | 1,720 | 3,930 | 2,700 | 818 | 38 | 44 |
| 16 | 112 | 1,750 | 4,710 | 2,810 | 818 | 40 | 28 |
| 17 | 156 | 1,810 | 5,490 | 2,590 | 886 | 44 | 26 |
| 18 | 106 | 1,860 | 5,850 | 1,860 | 920 | 44 | 26 |
| 19 | 112 | 1,900 | 4,770 | 1,990 | 1,020 | 50 | 38 |
| 20 | 126 | 1,960 | 5,730 | 1,810 | 1,060 | 50 | 40 |
| 21 | 116 | 1,990 | 5,130 | 1,680 | 650 | 61 | 26 |
| 22 | 178 | 2,040 | 5,430 | 1,500 | 214 | 80 | 25 |
| 23 | 92 | 2,090 | 5,490 | 1,300 | 142 | 32 | 25 |
| 25 | 110 | 2,090 | 5,130 | 1,180 | 142 | 32 | 25 |
| 25 | 106 | 2,090 | 4,050 | 818 | 118 | 33 | 25 |
| 26 | 87 | 2,140 | 3,360 | 683 | 108 | 36 | 44 |
| 27 | 78 | 2,190 | 3,810 | 618 | 98 | 44 | 422 |
| 28 | 74 | 2,240 | 3,690 | 526 | 118 | 50 | 499 |
| 29 | 78 | 2,700 | 3,810 | 556 | 118 | 57 | 338 |
| 30 | 91 | 3,140 | 3,030 | 556 | 142 | 64 | 230 |
| 31 | 78 | ------- | 2,490 | ------- | 98 | 60 | ------- |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 430 | 74 | 142 | 8,730 |
| April | 3,140 | 1,380 | 1,840 | 109,000 |
| May | 5,850 | 2,440 | 3,900 | 240,000 |
| June | 2,920 | 526 | 1,880 | 112,000 |
| July | 1,060 | 98 | 597 | 36,700 |
| August | 98 | 32 | 53.0 | 3,260 |
| September | 499 | 23 | 76.6 | 4,560 |

### ASHLEY CREEK NEAR VERNAL, UTAH

LOCATION.—Water-stage recorder in sec. 1, T. 3 S., R. 20 E., three-quarters of a mile above heading of Utah Power & Light Co.'s canal and 12 miles northwest of Vernal.

DRAINAGE AREA.—101 square miles.

RECORDS AVAILABLE.—June, 1914, to September, 1927. Fragmentary records October, 1911, to June, 1914, at power plant; March, 1900, to December, 1904, at station below mouth of Dry Fork.

EXTREMES.—Maximum discharge during year, 1,250 second-feet September 10 (gage height, 8.70 feet); minimum, 25 second-feet March 11 (gage height, 5.81 feet).

1911–1927: Maximum discharge, 2,050 second-feet May 29, 1921; minimum, that of March 11, 1927.

REMARKS.—Records good except those for estimated periods, December 7 to April 17, July 29–31, September 1–5, 7–12, 14, and 15, which are fair. No diversions above station.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 50 | 41 | 34 | 28 | 27 | 26 | 26 | 318 | 295 | 225 | 118 | 90 |
| 2 | 50 | 41 | 34 | 28 | 27 | 26 | 26 | 330 | 299 | 198 | 118 | 89 |
| 3 | 52 | 41 | 34 | 28 | 27 | 26 | 26 | 306 | 314 | 182 | 138 | 88 |
| 4 | 52 | 40 | 34 | 28 | 27 | 26 | 26 | 299 | 314 | 201 | 124 | 87 |
| 5 | 50 | 40 | 34 | 28 | 27 | 26 | 27 | 346 | 314 | 221 | 113 | 86 |
| 6 | 48 | 38 | 34 | 28 | 27 | 26 | 28 | 407 | 359 | 179 | 104 | 86 |
| 7 | 47 | 38 | 34 | 28 | 27 | 26 | 29 | 389 | 380 | 169 | 106 | |
| 8 | 47 | 38 | 34 | 28 | 27 | 25 | 30 | 269 | 371 | 160 | 106 | |
| 9 | 46 | 36 | 34 | 28 | 27 | 25 | 31 | 221 | 346 | 157 | 102 | |
| 10 | 44 | 36 | 34 | 28 | 27 | 25 | 30 | 198 | 314 | 153 | 104 | 500 |
| 11 | 44 | 36 | 34 | 28 | 27 | 25 | 30 | 186 | 283 | 142 | 117 | |
| 12 | 44 | 36 | 34 | 28 | 27 | 25 | 29 | 195 | 287 | 146 | 108 | |
| 13 | 46 | 36 | 34 | 28 | 27 | 25 | 29 | 310 | 273 | 140 | 104 | 306 |
| 14 | 46 | 35 | 33 | 27 | 27 | 25 | 28 | 528 | 251 | 138 | 100 | 280 |
| 15 | 46 | 34 | 32 | 27 | 27 | 25 | 28 | 653 | 291 | 128 | 100 | 250 |
| 16 | 44 | 34 | 32 | 27 | 27 | 26 | 28 | 852 | 326 | 122 | 100 | 218 |
| 17 | 42 | 34 | 31 | 27 | 27 | 26 | 28 | 954 | 291 | 117 | 99 | 201 |
| 18 | 42 | 34 | 31 | 27 | 27 | 26 | 28 | 877 | 248 | 115 | 97 | 184 |
| 19 | 42 | 34 | 31 | 27 | 27 | 26 | 28 | 729 | 248 | 111 | 99 | 172 |
| 20 | 42 | 34 | 31 | 27 | 27 | 26 | 30 | 554 | 221 | 113 | 100 | 160 |
| 21 | 42 | 34 | 30 | 27 | 27 | 26 | 28 | 430 | 198 | 113 | 99 | 151 |
| 22 | 41 | 34 | 30 | 27 | 27 | 26 | 30 | 371 | 184 | 113 | 97 | 151 |
| 23 | 40 | 34 | 30 | 27 | 27 | 26 | 30 | 310 | 174 | 117 | 102 | 153 |
| 24 | 41 | 34 | 30 | 27 | 26 | 26 | 32 | 306 | 166 | 120 | 100 | 155 |
| 25 | 41 | 34 | 30 | 27 | 26 | 26 | 34 | 402 | 160 | 128 | 99 | 184 |
| 26 | 41 | 33 | 30 | 27 | 26 | 26 | 41 | 528 | 155 | 144 | 95 | 172 |
| 27 | 41 | 33 | 29 | 27 | 26 | 26 | 50 | 533 | 192 | 149 | 95 | 157 |
| 28 | 41 | 33 | 29 | 27 | 26 | 26 | 95 | 449 | 533 | 151 | 93 | 164 |
| 29 | 40 | 33 | 29 | 27 | ------ | 26 | 136 | 322 | 449 | 175 | 93 | 151 |
| 30 | 40 | 33 | 28 | 27 | ------ | 26 | 228 | 295 | 276 | 150 | 92 | 153 |
| 31 | 40 | ------ | 28 | 27 | ------ | 26 | ------ | 283 | ------ | 125 | 91 | ------ |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 52 | 40 | 44.3 | 2,720 |
| November | 41 | 33 | 35.7 | 2,120 |
| December | 34 | 28 | 31.8 | 1,950 |
| January | 28 | 27 | 27.4 | 1,680 |
| February | 27 | 26 | 26.8 | 1,490 |
| March | 26 | 25 | 25.7 | 1,580 |
| April | 228 | 26 | 42.3 | 2,520 |
| May | 954 | 186 | 424 | 26,100 |
| June | 533 | 155 | 284 | 16,900 |
| July | 225 | 111 | 148 | 9,100 |
| August | 138 | 91 | 104 | 6,400 |
| September | ---------- | 86 | 230 | 13,700 |
| The year | ---------- | 25 | 119 | 86,300 |

### UTAH POWER & LIGHT CO.'S TAILRACE[1] NEAR VERNAL, UTAH

LOCATION.—Indicating gage in NW. ¼ sec. 18, T. 3 S., R. 21 E., at Vernal power plant of Utah Power & Light Co., 10 miles northwest of Vernal.

RECORDS AVAILABLE.—May to September, 1917; March, 1920, to September, 1927.

REMARKS.—Flow regulated by operation of power plant. Gage-height record furnished by Utah Power & Light Co.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 17 | 17 | 17 | 15 | 18 | 16 | 16 | 13 | 14 | 13 | 17 | 15 |
| 2 | 16 | 17 | 18 | 15 | 17 | 16 | 15 | 16 | 14 | 13 | 15 | 16 |
| 3 | 13 | 17 | 17 | 17 | 17 | 14 | 14 | 17 | 14 | 10 | 15 | 17 |
| 4 | 16 | 18 | 18 | 17 | 15 | 16 | 17 | 17 | 14 | 12 | 14 | 14 |
| 5 | 15 | 18 | 14 | 17 | 16 | 15 | 16 | 16 | 14 | 14 | 15 | 17 |
| 6 | 16 | 18 | 20 | 14 | 14 | 14 | 16 | 15 | 15 | 13 | 15 | 19 |
| 7 | 15 | 14 | 18 | 17 | 18 | 16 | 15 | 14 | 13 | 13 | 13 | 19 |
| 8 | 17 | 18 | 16 | 14 | 18 | 16 | 16 | 13 | 15 | 13 | 15 | 18 |
| 9 | 20 | 19 | 17 | 14 | 17 | 16 | 15 | 15 | 15 | 13 | 15 | 17 |
| 10 | 13 | 19 | 18 | 18 | 18 | 16 | 13 | 14 | 15 | 10 | 15 | 18 |
| 11 | 19 | 19 | 16 | 18 | 18 | 16 | 16 | 14 | 14 | 13 | 16 | 14 |
| 12 | 16 | 20 | 14 | 19 | 18 | 15 | 11 | 14 | 11 | 13 | 15 | 18 |
| 13 | 16 | 17 | 17 | 19 | 14 | 15 | 16 | 15 | 15 | 13 | 16 | 17 |
| 14 | 17 | 14 | 19 | 19 | 17 | 18 | 17 | 14 | 15 | 13 | 13 | 18 |
| 15 | 16 | 19 | 18 | 18 | 18 | 13 | 16 | 12 | 15 | 14 | 15 | 17 |
| 16 | 16 | 18 | 18 | 14 | 18 | 16 | 17 | 14 | 15 | 15 | 16 | 18 |
| 17 | 13 | 18 | 16 | 19 | 18 | 18 | 12 | 14 | 15 | 11 | 16 | 18 |
| 18 | 16 | 18 | 16 | 18 | 19 | 18 | 17 | 14 | 15 | 15 | 16 | 14 |
| 19 | 15 | 18 | 14 | 19 | 17 | 17 | 18 | 14 | 11 | 15 | 16 | 18 |
| 20 | 17 | 17 | 19 | 19 | 13 | 13 | 17 | 14 | 15 | 14 | 15 | 17 |
| 21 | 15 | 14 | 16 | 18 | 19 | 18 | 18 | 14 | 15 | 15 | 13 | 17 |
| 22 | 16 | 19 | 15 | 18 | 18 | 18 | 18 | 12 | 16 | 14 | 15 | 18 |
| 23 | 16 | 18 | 18 | 14 | 18 | 18 | 18 | 14 | 14 | 13 | 16 | 18 |
| 24 | 14 | 18 | 18 | 19 | 18 | 18 | 13 | 14 | 15 | 12 | 16 | 16 |
| 25 | 19 | 14 | 14 | 17 | 18 | 17 | 15 | 14 | 13 | 15 | 17 | 9 |
| 26 | 17 | 17 | 14 | 19 | 17 | 14 | 16 | 14 | 10 | 16 | 16 | 20 |
| 27 | 16 | 17 | 16 | 19 | 14 | 14 | 17 | 14 | 12 | 16 | 16 | 19 |
| 28 | 15 | 14 | 17 | 18 | 17 | 18 | 17 | 14 | 18 | 16 | 14 | 19 |
| 29 | 18 | 19 | 16 | 17 | ------ | 14 | 19 | 12 | 13 | 16 | 16 | 19 |
| 30 | 16 | 15 | 17 | 14 | ------ | 12 | 17 | 13 | 13 | 15 | 18 | 18 |
| 31 | 14 | ------ | 17 | 17 | ------ | 13 | ------ | 14 | ------ | 13 | 16 | ------ |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 20 | 13 | 16.0 | 984 |
| November | 20 | 14 | 17.3 | 1,030 |
| December | 20 | 14 | 16.7 | 1,030 |
| January | 19 | 14 | 17.1 | 1,050 |
| February | 19 | 13 | 17.0 | 944 |
| March | 18 | 12 | 15.7 | 965 |
| April | 19 | 11 | 15.9 | 946 |
| May | 17 | 12 | 14.1 | 867 |
| June | 18 | 10 | 14.1 | 839 |
| July | 16 | 10 | 13.6 | 836 |
| August | 18 | 13 | 15.4 | 947 |
| September | 20 | 9 | 17.1 | 1,020 |
| The year | 20 | 9 | 15.8 | 11,510 |

[1] Published prior to 1926 as Vernal Milling & Light Co.'s tailrace.

### DUCHESNE RIVER NEAR TABIONA, UTAH

LOCATION.—Tape gage in SW. ¼ sec. 17, T. 2 S., R. 6 W., Uinta base and meridian, 5½ miles above Rock Creek and 8 miles southeast of Tabiona.

DRAINAGE AREA.—352 square miles.

RECORDS AVAILABLE.—January, 1919, to September, 1927.

EXTREMES.—Maximum discharge during year, 1,530 second-feet June 9 (gage height, 13.07 feet); minimum not recorded.

1919–1927: Maximum discharge, about 2,500 second-feet June 13, 1921; minimum, 40 second-feet August 29–31, 1926.

REMARKS.—Records fair. Discharge estimated because of ice December 13 to February 13. Small diversions for irrigation above station.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 88 | 114 | 108 | | | 80 | 135 | 487 | 564 | 430 | 185 | 116 |
| 2 | 81 | 116 | 114 | | | 79 | 131 | 462 | 609 | 358 | 181 | 114 |
| 3 | 92 | 111 | 114 | | 80 | 84 | 138 | 484 | 645 | 325 | 164 | 114 |
| 4 | 94 | 116 | 112 | | | 90 | 140 | 491 | 654 | 458 | 157 | 117 |
| 5 | 91 | 114 | 112 | | | 87 | 135 | 534 | 695 | 440 | 153 | 119 |
| 6 | 95 | 117 | 112 | | 82 | 90 | 131 | 480 | 845 | 373 | 149 | 121 |
| 7 | 94 | 116 | 114 | | | 91 | 136 | 543 | 1,200 | 348 | 136 | 124 |
| 8 | 94 | 111 | 116 | | | 91 | 129 | 495 | 1,470 | 328 | 133 | 138 |
| 9 | 92 | 106 | 114 | | | 94 | 128 | 440 | 1,530 | 325 | 135 | 1,270 |
| 10 | 88 | 114 | 116 | | 85 | 91 | 121 | 336 | 1,520 | 296 | 129 | 119 |
| 11 | 98 | 111 | 111 | | | 90 | 116 | 328 | 1,490 | 220 | 131 | 122 |
| 12 | 94 | 112 | 110 | | | 92 | 114 | 440 | 1,420 | 220 | 123 | 232 |
| 13 | 97 | 116 | | | | 91 | 117 | 380 | 1,240 | 222 | 126 | 232 |
| 14 | 100 | 117 | | | 85 | 95 | 121 | 462 | 1,130 | 218 | 126 | 227 |
| 15 | 104 | 119 | | | 87 | 97 | 114 | 681 | 1,070 | 225 | 129 | 220 |
| 16 | 97 | 122 | | 80 | 90 | 94 | 112 | 1,100 | 955 | 227 | 123 | 207 |
| 17 | 108 | 119 | | | 88 | 91 | 117 | 1,230 | 925 | 211 | 122 | 200 |
| 18 | 104 | 114 | | | 92 | 87 | 116 | 1,450 | 905 | 196 | 111 | 202 |
| 19 | 108 | 114 | | | 90 | 78 | 114 | 1,460 | 920 | 187 | 119 | 198 |
| 20 | 104 | 109 | | | 92 | 72 | 121 | 1,100 | 765 | 181 | 116 | 209 |
| 21 | 101 | 116 | | | 92 | 91 | 117 | 875 | 775 | 178 | 114 | 198 |
| 22 | 112 | 111 | 80 | | 90 | 106 | 131 | 681 | 710 | 222 | 111 | 213 |
| 23 | 106 | 112 | | | 87 | 114 | 153 | 654 | 578 | 211 | 111 | 272 |
| 24 | 103 | 111 | | | 92 | 128 | 170 | 663 | 469 | 193 | 119 | 305 |
| 25 | 104 | 114 | | | 94 | 133 | 213 | 672 | 462 | 196 | 121 | 277 |
| 26 | 106 | 119 | | | 91 | 129 | 259 | 695 | 495 | 200 | 124 | 269 |
| 27 | 104 | 116 | | | 90 | 131 | 358 | 780 | 458 | 204 | 122 | 264 |
| 28 | 101 | 114 | | | 94 | 126 | 380 | 835 | 462 | 222 | 122 | 262 |
| 29 | 114 | 111 | | | ------ | 133 | 396 | 622 | 458 | 216 | 149 | 254 |
| 30 | 114 | 112 | | | ------ | 129 | 423 | 539 | 440 | 178 | 142 | 264 |
| 31 | 112 | ------ | | | ------ | 131 | ------ | 514 | ------ | 183 | 119 | ------ |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 114 | 81 | 100 | 6,150 |
| November | 122 | 106 | 114 | 6,780 |
| December | 116 | ---------- | 92.7 | 5,700 |
| January | ---------- | ---------- | 80.0 | 4,920 |
| February | 94 | ---------- | 86.8 | 4,820 |
| March | 133 | 72 | 100 | 6,150 |
| April | 423 | 112 | 170 | 10,100 |
| May | 1,460 | 328 | 675 | 41,500 |
| June | 1,530 | 440 | 862 | 51,300 |
| July | 458 | 178 | 258 | 15,900 |
| August | 185 | 111 | 133 | 8,180 |
| September | 1,270 | 114 | 233 | 13,900 |
| The year | 1,530 | ---------- | 242 | 175,000 |

### DUCHESNE RIVER AT DUCHESNE, UTAH

LOCATION.—Staff gage in NE. ¼ NW. ¼ sec. 1, T. 4 S., R. 5 W., Uinta base and meridian, in Duchesne, 1 mile above mouth of Strawberry River.

DRAINAGE AREA.—660 square miles.

RECORDS AVAILABLE.—December, 1917, to September, 1927.

EXTREMES.—Maximum discharge during year, 2,910 second-feet June 10 (gage height, 3.08 feet); minimum, 106 second-feet several days during October and November.

1917–1927: Maximum discharge, 4,420 second-feet June 10, 1922 (gage height, 8.65 feet); minimum, 50 second-feet August 4, 5, 7–14, 27–31, and September 1–4, 1924 (gage height, 0.6 foot).

REMARKS.—Records fair. Discharge estimated because of ice effect December 13 to March 6. Diversions for irrigation above and below station.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 114 | 114 | 162 | | | | 167 | 774 | 887 | 1,060 | 263 | 201 |
| 2 | 114 | 114 | 178 | | | | 178 | 814 | 887 | 931 | 212 | 184 |
| 3 | 158 | 106 | 178 | | | | 206 | 843 | 960 | 858 | 212 | 167 |
| 4 | 135 | 114 | 189 | | | 160 | 206 | 843 | 1,040 | 931 | 201 | 158 |
| 5 | 130 | 121 | 178 | | | | 178 | 843 | 1,200 | 1,410 | 184 | 158 |
| 6 | 130 | 130 | 178 | | 140 | | 206 | 774 | 1,650 | 931 | 184 | 158 |
| 7 | 135 | 130 | 189 | | | 167 | 206 | 843 | 2,190 | 788 | 201 | 158 |
| 8 | 135 | 139 | 189 | | | 178 | 206 | 774 | 2,500 | 722 | 178 | 658 |
| 9 | 130 | 139 | 178 | | | 178 | 206 | 708 | 2,700 | 722 | 167 | 722 |
| 10 | 130 | 139 | 162 | | | 178 | 189 | 647 | 2,870 | 658 | 184 | 1,250 |
| 11 | 130 | 139 | 149 | | 143 | 167 | 178 | 564 | 2,740 | 658 | 206 | 682 |
| 12 | 130 | 149 | 149 | | | 153 | 178 | 533 | 2,310 | 599 | 184 | 258 |
| 13 | 117 | 149 | | | | 153 | 178 | 588 | 2,480 | 543 | 184 | 1,170 |
| 14 | 117 | 139 | | | | 153 | 178 | 872 | 2,530 | 491 | 184 | 704 |
| 15 | 117 | 139 | | | | 167 | 178 | 1,200 | 2,260 | 442 | 167 | 682 |
| 16 | 117 | 162 | | 140 | | 149 | 178 | 1,650 | 2,310 | 424 | 158 | 940 |
| 17 | 106 | 149 | | | | 139 | 167 | 1,940 | 2,060 | 396 | 149 | 682 |
| 18 | 106 | 162 | | | | 130 | 167 | 2,260 | 2,400 | 396 | 135 | 682 |
| 19 | 114 | 162 | | | | 130 | 167 | 2,180 | 2,310 | 353 | 135 | 626 |
| 20 | 114 | 162 | | | 150 | 139 | 167 | 1,840 | 2,060 | 353 | 149 | 573 |
| 21 | 114 | 149 | 140 | | | 153 | 167 | 1,840 | 1,730 | 396 | 149 | 524 |
| 22 | 106 | 149 | | | | 167 | 178 | 1,280 | 1,570 | 543 | 135 | 478 |
| 23 | 106 | 149 | | | | 153 | 178 | 1,040 | 1,490 | 442 | 158 | 478 |
| 24 | 106 | 139 | | | | 167 | 236 | 887 | 1,440 | 396 | 135 | 573 |
| 25 | 114 | 139 | | | | 178 | 270 | 887 | 1,330 | 442 | 135 | 682 |
| 26 | 114 | 139 | | | | 178 | 345 | 1,200 | 1,250 | 396 | 158 | 626 |
| 27 | 106 | 178 | | | | 178 | 533 | 1,440 | 1,410 | 353 | 167 | 478 |
| 28 | 106 | 162 | | | | 178 | 533 | 1,520 | 1,730 | 491 | 158 | 478 |
| 29 | 106 | 178 | | | ------- | 178 | 708 | 1,200 | 1,250 | 442 | 277 | 435 |
| 30 | 114 | 162 | | | ------- | 178 | 774 | 1,120 | 1,170 | 353 | 243 | 435 |
| 31 | 114 | ------- | | | ------- | 167 | ------- | 1,040 | ------- | 353 | 212 | ------- |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 158 | 106 | 119 | 7,320 |
| November | 178 | 106 | 143 | 8,510 |
| December | 189 | ---------- | 153 | 9,410 |
| January | ---------- | ---------- | 140 | 8,610 |
| February | ---------- | ---------- | 146 | 8,110 |
| March | 178 | 130 | 162 | 9,960 |
| April | 774 | 167 | 254 | 15,100 |
| May | 2,260 | 533 | 1,130 | 69,500 |
| June | 2,870 | 887 | 1,820 | 108,000 |
| July | 1,410 | 353 | 590 | 36,300 |
| August | 277 | 135 | 178 | 11,000 |
| September | 1,250 | 158 | 533 | 31,700 |
| The year | 2,870 | 106 | 447 | 324,000 |

### DUCHESNE RIVER AT MYTON, UTAH

LOCATION.—Chain gage in NW. ¼ sec. 25, T. 3 S., R. 2 W., Uinta base and meridian, at Myton, 3 miles below mouth of Lake Fork.

DRAINAGE AREA.—2,750 square miles.

RECORDS AVAILABLE.—October, 1899, to November, 1910; July, 1911, to September, 1927.

EXTREMES.—Maximum discharge during year, 8,420 second-feet September 10 (gage height, 7.22 feet); minimum, 90 second-feet October 19 and 20 (gage height, 1.55 feet).

1899–1927: Maximum discharge, 12,800 second-feet June 10, 1922 (gage height, 7.94 feet); minimum, 6 second-feet September 4–9, 1924.

REMARKS.—Records fair. Discharge estimated or interpolated for days of missing gage heights, April 10–20, July 4, and August 12, 13, and for ice-affected period, December 15 to March 12. Diversions for irrigation above station. Flow regulated by United States Bureau of Reclamation reservoir on Strawberry River.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 120 | 130 | 252 | | | | 412 | 1,070 | 1,200 | 1,420 | 247 | 390 |
| 2 | 126 | 143 | 252 | | | | 395 | 1,120 | 1,110 | 1,210 | 238 | 299 |
| 3 | 120 | 143 | 243 | | | | 454 | 1,160 | 1,110 | 1,010 | 196 | 247 |
| 4 | 120 | 136 | 252 | | | | 430 | 1,260 | 1,100 | 2,000 | 184 | 238 |
| 5 | 117 | 126 | 256 | | | | 384 | 1,220 | 1,210 | 2,350 | 158 | 230 |
| 6 | 123 | 133 | 256 | | 250 | | 373 | 1,190 | 1,310 | 1,380 | 172 | 238 |
| 7 | 133 | 130 | 280 | | | 325 | 373 | 1,180 | 2,470 | 1,150 | 168 | 238 |
| 8 | 136 | 126 | 280 | | | | 356 | 1,310 | 2,990 | 1,040 | 161 | 2,470 |
| 9 | 133 | 136 | 280 | | | | 356 | 1,310 | 3,360 | 1,010 | 150 | 3,210 |
| 10 | 130 | 136 | 234 | | | | | 1,090 | 3,490 | 979 | 140 | 5,700 |
| 11 | 123 | 154 | 252 | | 257 | | | 856 | 3,060 | 874 | 230 | 3,010 |
| 12 | 120 | 158 | 243 | | | | | 726 | 2,770 | 803 | 220 | 2,390 |
| 13 | 117 | 165 | 243 | | | 356 | | 796 | 2,950 | 712 | 215 | 2,350 |
| 14 | 120 | 172 | 234 | | | 384 | | 874 | 3,080 | 574 | 204 | 2,350 |
| 15 | 117 | 172 | 136 | | | 442 | 280 | 1,520 | 3,050 | 497 | 225 | 2,050 |
| 16 | 110 | 172 | 192 | 250 | 275 | 373 | | 1,790 | 2,710 | 436 | 168 | 1,870 |
| 17 | 104 | 172 | 192 | | | 330 | | 2,720 | 2,390 | 378 | 158 | 2,110 |
| 18 | 96 | 172 | | | | 330 | | 3,640 | 2,650 | 325 | 158 | 1,870 |
| 19 | 90 | 172 | | | | 304 | | 3,640 | 2,770 | 238 | 140 | 1,580 |
| 20 | 90 | 184 | | | | 304 | | 3,320 | 2,410 | 238 | 140 | 1,440 |
| 21 | 93 | 184 | | | | 285 | 234 | 2,360 | 2,080 | 261 | 140 | 1,310 |
| 22 | 120 | 192 | | | | 340 | 234 | 2,120 | 1,750 | 362 | 158 | 1,260 |
| 23 | 130 | 192 | | | | 384 | 243 | 1,690 | 1,520 | 448 | 158 | 1,210 |
| 24 | 123 | 200 | 220 | | | 478 | 304 | 1,290 | 1,310 | 448 | 165 | 1,170 |
| 25 | 126 | 234 | | | 300 | 491 | 356 | 1,160 | 1,160 | 448 | 140 | 1,900 |
| 26 | 126 | 234 | | | | 504 | 485 | 1,230 | 1,110 | 436 | 196 | 1,640 |
| 27 | 130 | 225 | | | | 504 | 535 | 1,660 | 1,270 | 448 | 309 | 1,420 |
| 28 | 120 | 234 | | | | 504 | 600 | 1,690 | 2,900 | 460 | 390 | 1,310 |
| 29 | 114 | 234 | | | | 504 | 882 | 1,690 | 2,450 | 522 | 497 | 1,210 |
| 30 | 117 | 234 | | | | 472 | 914 | 1,360 | 1,730 | 418 | 448 | 1,210 |
| 31 | 120 | | | | | 448 | | 1,290 | | 285 | 478 | |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 136 | 90 | 118 | 7,260 |
| November | 234 | 126 | 173 | 10,300 |
| December | 280 | | 231 | 14,200 |
| January | | | 250 | 15,400 |
| February | | | 273 | 15,200 |
| March | 504 | | 375 | 23,100 |
| April | 914 | | 380 | 22,600 |
| May | 3,640 | 726 | 1,590 | 97,800 |
| June | 3,490 | 1,100 | 2,150 | 128,000 |
| July | 2,350 | 238 | 747 | 45,900 |
| August | 497 | 140 | 218 | 13,400 |
| September | 5,700 | 230 | 1,600 | 95,200 |
| The year | 5,700 | 90 | 674 | 488,000 |

### STRAWBERRY RIVER AT DUCHESNE, UTAH

LOCATION.—Staff gage in SW. ¼ NE. ¼ sec. 2, T. 4 S., R. 5 W., Uinta base and meridian, three-quarters of a mile west of Duchesne and 1½ miles above mouth.

DRAINAGE AREA.—1,040 square miles.

RECORDS AVAILABLE.—June, 1908, to November, 1910; March, 1914, to September, 1927.

EXTREMES.—Maximum discharge during year, 2,600 second-feet September 10 (gage height, 9.3 feet); minimum occurred during winter.

1908–1910, 1914–1927: Maximum discharge, 3,230 second-feet May 27, 1922 (gage height, 7.7 feet); minimum, 30 second-feet November 20, 1914.

REMARKS.—Records fair below and poor above 400 second-feet. Discharge estimated because of ice effect December 13 to March 18. Diversions for irrigation above station. Flow regulated by storage in Strawberry Valley Reservoir.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 47 | 45 | 68 | | | | 96 | 559 | 342 | 214 | 84 | 77 |
| 2 | 47 | 45 | 68 | | | | 86 | 663 | 350 | 198 | 80 | 64 |
| 3 | 47 | 46 | 60 | | | | 108 | 745 | 334 | 198 | 80 | 64 |
| 4 | 47 | 47 | 63 | | | | 96 | 789 | 334 | 223 | 80 | 64 |
| 5 | 47 | 43 | 60 | | 35 | | 86 | 756 | 334 | 738 | 77 | 64 |
| 6 | 47 | 43 | 60 | | | | 76 | 800 | 316 | 255 | 77 | 64 |
| 7 | 47 | 42 | 60 | | | | 86 | 866 | 316 | 201 | 80 | 67 |
| 8 | 47 | 42 | 73 | | | | 96 | 910 | 316 | 184 | 72 | 555 |
| 9 | 47 | 47 | 68 | | | | 108 | 844 | 316 | 192 | 67 | 630 |
| 10 | 47 | 54 | 50 | | | 50 | 108 | 647 | 304 | 175 | 72 | 1,690 |
| 11 | 47 | 54 | 45 | | 38 | | 96 | 524 | 297 | 175 | 290 | 141 |
| 12 | 47 | 57 | 45 | | | | 96 | 477 | 304 | 148 | 77 | 226 |
| 13 | 47 | 54 | | | | | 96 | 534 | 316 | 143 | 72 | 934 |
| 14 | 47 | 54 | | | | | 96 | 800 | 342 | 124 | 67 | 276 |
| 15 | 47 | 54 | | 35 | | | 86 | 982 | 354 | 119 | 64 | 129 |
| 16 | 47 | 60 | | | | | 86 | 1,060 | 334 | 108 | 64 | 129 |
| 17 | 47 | 60 | | | | | 76 | 1,160 | 327 | 98 | 64 | 117 |
| 18 | 47 | 63 | | | | | 76 | 1,220 | 297 | 94 | 64 | 117 |
| 19 | 47 | 73 | | | | 60 | 76 | 1,140 | 280 | 89 | 64 | 117 |
| 20 | 47 | 80 | | | 40 | 60 | 76 | 970 | 262 | 214 | 64 | 100 |
| 21 | 47 | 63 | | | | 60 | 76 | 832 | 246 | 115 | 64 | 96 |
| 22 | 47 | 60 | 35 | | | 86 | 86 | 699 | 226 | 102 | 64 | 117 |
| 23 | 47 | 60 | | | | 119 | 96 | 615 | 204 | 108 | 80 | 136 |
| 24 | 45 | 54 | | | | 132 | 119 | 545 | 192 | 115 | 67 | 402 |
| 25 | 45 | 54 | | | | 144 | 172 | 460 | 169 | 156 | 64 | 330 |
| 26 | 45 | 54 | | | | 119 | 203 | 451 | 169 | 630 | 198 | 232 |
| 27 | 45 | 73 | | | | 132 | 294 | 438 | 192 | 156 | 482 | 117 |
| 28 | 45 | 73 | | | | 108 | 354 | 460 | 365 | 482 | 143 | 117 |
| 29 | 45 | 63 | | | ------- | 96 | 440 | 424 | 373 | 354 | 505 | 117 |
| 30 | 45 | 57 | | | ------- | 119 | 559 | 407 | 255 | 124 | 169 | 117 |
| 31 | 45 | ------- | | | ------- | 103 | ------- | 373 | ------- | 102 | 94 | ------- |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 47 | 45 | 46.5 | 2,860 |
| November | 80 | 42 | 55.8 | 3,320 |
| December | 73 | ---------- | 44.7 | 2,750 |
| January | ---------- | ---------- | 35 | 2,150 |
| February | ---------- | ---------- | 38.1 | 2,120 |
| March | 144 | ---------- | 72.2 | 4,440 |
| April | 559 | 76 | 140 | 8,330 |
| May | 1,160 | 373 | 715 | 44,000 |
| June | 373 | 169 | 292 | 17,400 |
| July | 738 | 89 | 204 | 12,500 |
| August | 505 | 64 | 116 | 7,130 |
| September | 1,690 | 64 | 247 | 14,700 |
| The year | 1,690 | ---------- | 168 | 122,000 |

### WEST FORK OF LAKE FORK NEAR MOUNTAIN HOME, UTAH

LOCATION.—Water-stage recorder in NE. ¼ sec. 19, T. 2 N., R. 5 W., Uinta base and meridian, half a mile below Moon Lake and 13 miles northwest of Mountain Home.

DRAINAGE AREA.—108 square miles.

RECORDS AVAILABLE.—September, 1921, to September, 1927; fragmentary.

EXTREMES.—Maximum discharge during year, 2,000 second-feet September 9 (gage height, 3.85 feet); minimum not determined.

1921–1927: Maximum discharge, that of September 9, 1927; minimum not determined.

REMARKS.—Records good. No diversions above station. Flow regulated by storage in Brown Duck Lake Reservoir.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|
| 1 | | 32 | | 315 | 346 | 128 | 106 |
| 2 | | 32 | | 307 | 307 | 116 | 98 |
| 3 | | 31 | | 318 | 284 | 114 | 91 |
| 4 | | 31 | 206 | 346 | 318 | 130 | 88 |
| 5 | | 30 | 206 | 385 | 371 | 140 | 86 |
| 6 | | 30 | 215 | 557 | 311 | 145 | 88 |
| 7 | | 31 | 231 | 781 | 270 | 153 | 114 |
| 8 | | 32 | 218 | 922 | 256 | 158 | 155 |
| 9 | | 32 | 194 | 922 | 250 | 160 | 425 |
| 10 | | 32 | 171 | 873 | 256 | 160 | 670 |
| 11 | | 31 | 155 | 724 | 243 | 166 | |
| 12 | | 27 | 147 | 677 | 224 | 166 | |
| 13 | | 25 | 166 | 744 | 206 | 160 | |
| 14 | | 26 | 137 | 697 | 191 | 155 | |
| 15 | | 27 | 376 | 620 | 177 | 150 | |
| 16 | | 27 | 603 | 540 | 166 | 137 | |
| 17 | | 28 | 881 | 562 | 158 | 132 | |
| 18 | | 29 | 999 | 697 | 147 | 128 | |
| 19 | | | 939 | 652 | 142 | 126 | |
| 20 | 38 | | 751 | 579 | 142 | 126 | |
| 21 | 38 | | 597 | 493 | 169 | 121 | |
| 22 | 38 | | 483 | 449 | 185 | 119 | |
| 23 | 37 | | 407 | 444 | 185 | 116 | |
| 24 | 35 | | 351 | 473 | 180 | 110 | |
| 25 | 35 | | 359 | 430 | 174 | 106 | |
| 26 | 34 | | 453 | 416 | 171 | 110 | |
| 27 | 34 | | 535 | 483 | 166 | 114 | |
| 28 | 33 | | 551 | 664 | 169 | 112 | |
| 29 | 34 | | 463 | 540 | 169 | 112 | |
| 30 | 34 | | 389 | 420 | 155 | 112 | |
| 31 | 33 | | 342 | | 140 | 112 | |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October 20–31 | 38 | 33 | 35.2 | 838 |
| November 1–18 | 32 | 25 | 29.6 | 1,060 |
| May 4–31 | 999 | 147 | 412 | 22,900 |
| June | 922 | 307 | 568 | 33,800 |
| July | 371 | 140 | 214 | 13,200 |
| August | 166 | 106 | 132 | 8,120 |

### LAKE FORK NEAR MYTON, UTAH

LOCATION.—Water-stage recorder in sec. 21, T. 3 S., R. 2 W., Uinta base and meridian, half a mile above mouth and 3½ miles northwest of Myton.

DRAINAGE AREA.—468 square miles.

RECORDS AVAILABLE.—July, 1900, to December, 1903; June, 1907, to November, 1910; July, 1911, to September, 1927.

EXTREMES.—Maximum discharge during year, 4,600 second-feet September 10 (gage height, 9.7 feet); minimum, 6 second-feet November 11 and 12.

1900–1903, 1907–1927: Maximum discharge, that of September 10, 1927; probably no flow July 24, 1916.

REMARKS.—Records fair except those for estimated periods, which are poor. Diversions for irrigation above station.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 25 | 19 | 56 | | | | 203 | 24 | 56 | a 225 | 23 | a 40 |
| 2 | 14 | 18 | 50 | | | | 177 | 20 | 44 | 208 | 22 | a 40 |
| 3 | 14 | 14 | 43 | | | | 152 | 19 | 43 | 124 | 21 | 39 |
| 4 | 14 | 12 | 50 | | | | | 19 | 44 | 203 | 26 | 35 |
| 5 | | 14 | 57 | | a 75 | | | 19 | 55 | 484 | 28 | 36 |
| 6 | | 14 | 54 | | | | a 100 | 34 | 180 | 346 | 32 | 38 |
| 7 | | 13 | 70 | | | | | 57 | 476 | a 240 | 34 | 47 |
| 8 | | 11 | 87 | | | | | 38 | 760 | a 230 | 35 | 557 |
| 9 | | 8 | 78 | | a 77 | | 66 | 50 | 875 | 221 | 30 | a 60 |
| 10 | a 15 | 8 | 60 | | | | 61 | 61 | 895 | 208 | 26 | 2,700 |
| 11 | | 6 | | | | | 62 | 50 | 652 | 187 | 28 | 2,500 |
| 12 | | 6 | | | | | 76 | 45 | 562 | | 33 | 1,650 |
| 13 | | 7 | | | | | 70 | 39 | 706 | a 75 | 37 | 1,810 |
| 14 | | 10 | | | | | 64 | 49 | 706 | | 47 | 1,260 |
| 15 | | 8 | | | | | 60 | 85 | 730 | 38 | 57 | a 1,000 |
| 16 | 16 | 9 | | a 70 | | a 150 | 64 | 210 | 620 | 26 | 50 | a 1,000 |
| 17 | 16 | 9 | | | | | 53 | 501 | 527 | 24 | 42 | 1,200 |
| 18 | 18 | 9 | | | | | | 870 | 696 | 27 | 37 | a 1,100 |
| 19 | a 16 | 9 | | | a 80 | | | 845 | 755 | 24 | 36 | a 1,000 |
| 20 | a 14 | 18 | | | | | a 25 | 540 | 611 | 26 | 42 | a 900 |
| 21 | 12 | 28 | a 50 | | | | | 277 | 435 | 46 | 39 | a 800 |
| 22 | 21 | 30 | | | | | | 131 | a 200 | 96 | 37 | a 750 |
| 23 | 20 | 30 | | | | | 11 | 120 | 104 | 104 | 36 | a 700 |
| 24 | 16 | 28 | | | | | 15 | | 60 | 72 | 35 | 665 |
| 25 | 18 | 46 | | | | | 12 | | 48 | 59 | 34 | 710 |
| 26 | 16 | 44 | | | | | 9 | a 75 | 38 | 47 | 36 | 683 |
| 27 | 17 | 51 | | | | | 10 | | 64 | 38 | 56 | 602 |
| 28 | 18 | 56 | | | | | 9 | 143 | 1,470 | 30 | 50 | a 52 5 |
| 29 | 21 | 47 | | | ------ | | 14 | 109 | a 400 | 27 | a 50 | a 500 |
| 30 | 20 | 48 | | | ------ | | 26 | 80 | a 300 | 23 | a 45 | a 475 |
| 31 | 21 | ------ | | | ------ | | ------ | 89 | ------ | 24 | a 60 | ------ |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 25 | ------ | 16.5 | 1,010 |
| November | 56 | 6 | 21.0 | 1,250 |
| December | ------ | ------ | 53.4 | 3,280 |
| January | ------ | ------ | 70.0 | 4,300 |
| February | ------ | ------ | 78.5 | 4,360 |
| March | ------ | ------ | 150 | 9,220 |
| April | 203 | 9 | 61.3 | 3,650 |
| May | 870 | 19 | 156 | 9,590 |
| June | 1,470 | 38 | 437 | 26,000 |
| July | 484 | 23 | 117 | 7,190 |
| August | 60 | 21 | 37.5 | 2,310 |
| September | 2,700 | 35 | 799 | 47,500 |
| The year | 2,700 | 6 | 165 | 120,000 |

a Estimated.

### UINTA RIVER NEAR NEOLA, UTAH

LOCATION.—Chain gage in SE. ¼ sec. 26, T. 2 N., R. 2 W., Uinta base and meridian, 800 feet above tailrace of Pole Creek power plant and 9 miles north of Neola.
DRAINAGE AREA.—181 square miles.
RECORDS AVAILABLE.—July, 1921, to September, 1927; fragmentary.
REMARKS.—Records fair. Discharge estimated March 23–31 and June 13–16. No diversions above station.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 106 | 81 | 78 | 78 | 71 | 215 | 332 | 461 | 285 | 191 |
| 2 | 96 | 77 | 78 | 65 | 76 | 242 | 332 | 422 | 254 | 170 |
| 3 | 117 | 84 | 80 | 66 | 84 | 263 | 339 | 414 | 260 | 160 |
| 4 | 106 | 78 | 81 | 71 | 71 | 298 | 398 | 515 | 279 | 170 |
| 5 | 103 | 81 | 81 | 66 | 76 | 312 | 414 | 615 | 260 | 170 |
| 6 | 103 | 78 | 81 | 66 | 81 | 346 | 433 | 449 | 248 | 170 |
| 7 | 99 | 81 | 81 | 60 | 90 | 325 | 678 | 395 | 242 | 242 |
| 8 | 94 | 73 | 80 | 66 | 93 | 305 | 678 | 437 | 242 | 714 |
| 9 | 93 | 78 | 78 | 62 | 81 | 266 | 597 | 410 | 292 | 1,240 |
| 10 | 99 | 80 | 76 | 58 | 66 | 219 | 714 | 406 | 272 | ------- |
| 11 | 99 | 81 | 71 | 56 | 71 | 224 | 589 | 398 | 395 | ------- |
| 12 | 93 | 81 | 68 | 59 | 67 | 207 | 589 | 339 | 339 | ------- |
| 13 | 88 | 80 | 56 | 62 | 60 | 227 | | 325 | 318 | ------- |
| 14 | 84 | 76 | ------- | 64 | 62 | 402 | | 305 | 269 | ------- |
| 15 | 86 | 78 | ------- | 60 | 64 | 682 | 550 | 285 | 254 | ------- |
| 16 | 84 | 80 | ------- | 63 | 66 | 980 | | 265 | 228 | ------- |
| 17 | 84 | 78 | ------- | 58 | 71 | 1,090 | 470 | 245 | 196 | ------- |
| 18 | 82 | 78 | ------- | 58 | 76 | 1,090 | 606 | 236 | 185 | ------- |
| 19 | 81 | 78 | ------- | 52 | 76 | 860 | 589 | 232 | 207 | ------- |
| 20 | 80 | 78 | ------- | 46 | 76 | 687 | 535 | 236 | 254 | ------- |
| 21 | 82 | 78 | ------- | 68 | 68 | 511 | 461 | 308 | 224 | ------- |
| 22 | 81 | 78 | ------- | 62 | 78 | 412 | 429 | 325 | 242 | ------- |
| 23 | 78 | 78 | ------- | | 90 | 312 | 376 | 445 | 214 | ------- |
| 24 | 87 | 78 | ------- | | 103 | 315 | 478 | 461 | 185 | ------- |
| 25 | 87 | 81 | ------- | | 121 | 368 | 429 | 368 | 170 | ------- |
| 26 | 86 | 72 | ------- | | 146 | 545 | 437 | 410 | 196 | ------- |
| 27 | 86 | 76 | ------- | 65 | 142 | 520 | 562 | 398 | 196 | ------- |
| 28 | 84 | 78 | ------- | | 165 | 494 | 1,060 | 437 | 191 | ------- |
| 29 | 82 | 81 | ------- | | 165 | 445 | 746 | 376 | 196 | ------- |
| 30 | 81 | 81 | ------- | | 180 | 391 | 550 | 325 | 196 | ------- |
| 31 | 78 | ------- | ------- | | ------- | 391 | ------- | 305 | 202 | ------- |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 117 | 78 | 90.0 | 5,530 |
| November | 84 | 72 | 78.7 | 4,680 |
| March | 78 | 46 | 62.9 | 3,870 |
| April | 180 | 60 | 91.2 | 5,430 |
| May | 1,090 | 207 | 450 | 27,700 |
| June | 1,060 | 332 | 534 | 31,800 |
| July | 615 | 232 | 373 | 22,900 |
| August | 395 | 170 | 242 | 14,900 |

### WHITEROCKS RIVER NEAR WHITEROCKS, UTAH

LOCATION.—Water-stage recorder in sec. 18, T. 2 N., R. 1 E., Uinta base and meridian, 8 miles north of Whiterocks and 2 miles below heading of United States Whiterocks and Farm Creek Canals.

DRAINAGE AREA.—118 square miles.

RECORDS AVAILABLE.—August, 1921, to September, 1927; fragmentary. November, 1917, to June, 1921, below diversion of United States Whiterocks Canal and above Farm Creek Canal. 1899 to 1904 and 1907 to 1910 near present site. All records comparable.

EXTREMES.—1917–1927: Maximum discharge, 2,750 second-feet June 21, 1922 (gage height, 5.40 feet); minimum, less than 14 second-feet during winter of 1920–21.

REMARKS.—Records fair. Discharge estimated October 10–21, August, 4–12, August 30 to September 7, and September 30. No diversions above station.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|
| 1 | 78 | 35 | | 377 | 331 | 182 | |
| 2 | 75 | 34 | | 353 | 308 | 163 | |
| 3 | 75 | 35 | | 371 | 300 | 202 | |
| 4 | 69 | 34 | | 377 | 336 | 220 | |
| 5 | 66 | 34 | | 371 | 347 | | 120 |
| 6 | 66 | 34 | | 446 | 300 | | |
| 7 | 61 | 35 | | 516 | 285 | | |
| 8 | 57 | 32 | | 516 | 267 | 180 | 308 |
| 9 | 53 | | | 495 | 267 | | 700 |
| 10 | | | | 474 | 245 | | 700 |
| 11 | | | | 432 | 229 | | 425 |
| 12 | | | | 502 | 211 | | 347 |
| 13 | | | | 439 | 192 | 138 | 530 |
| 14 | | | | 397 | 182 | 119 | 495 |
| 15 | | | | 474 | 163 | 114 | 460 |
| 16 | 45 | | | 383 | 154 | 109 | 495 |
| 17 | | | | 353 | 138 | 105 | 586 |
| 18 | | | | 359 | 131 | 101 | 546 |
| 19 | | | | 353 | 125 | 109 | 460 |
| 20 | | | | 326 | 125 | 119 | 404 |
| 21 | | | | 295 | 172 | 105 | 371 |
| 22 | 39 | | | 279 | 172 | 119 | 353 |
| 23 | 38 | | | 267 | 172 | 109 | 347 |
| 24 | 35 | | 331 | 260 | 182 | 97 | 336 |
| 25 | 35 | | 460 | 253 | 146 | 94 | 377 |
| 26 | 35 | | 710 | 245 | 192 | 114 | 359 |
| 27 | 35 | | 691 | 316 | 163 | 114 | 336 |
| 28 | 34 | | 586 | 800 | 182 | 138 | 331 |
| 29 | 34 | | 460 | 610 | 202 | 131 | 331 |
| 30 | 31 | | 439 | 425 | 192 | 130 | 330 |
| 31 | 34 | | 411 | | 192 | 130 | |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 78 | 31 | 48.1 | 2,960 |
| June | 800 | 245 | 402 | 23,900 |
| July | 347 | 125 | 213 | 13,100 |
| August | | 94 | 142 | 8,730 |
| September | 700 | | 359 | 21,400 |

### FISH CREEK NEAR SCOFIELD, UTAH

LOCATION.—Staff gage in sec. 10, T. 12 S., R. 7 E., below Horsley Dam, 5 miles northeast of Scofield, and 10 miles above mouth.
DRAINAGE AREA.—163 square miles.
RECORDS AVAILABLE.—November, 1917, to September, 1921; June, 1925, to September, 1927, fragmentary.
REMARKS.—Records good. Discharge estimated December 1 to May 18 and September 8–30. Small diversions for irrigation above station. Flow completely regulated by Horsley Dam. Gage-height record and two discharge measurements furnished by Price River Water Conservation District.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|
| 1 | 13 | 14 | | 107 | 9 | 142 | 85 |
| 2 | 13 | 14 | | 107 | 9 | 165 | 85 |
| 3 | 13 | 14 | | 116 | 9 | 170 | 85 |
| 4 | 13 | 14 | | 116 | 9 | 170 | 85 |
| 5 | 13 | 14 | | 116 | 9 | 170 | 85 |
| 6 | 13 | 14 | | 116 | 9 | 170 | 85 |
| 7 | 13 | 14 | | 116 | 9 | 170 | 46 |
| 8 | 14 | 14 | | 116 | 9 | 142 | |
| 9 | 14 | 14 | | 124 | 9 | 142 | |
| 10 | 14 | 14 | 7 | 133 | 9 | 142 | |
| 11 | 14 | 14 | | 152 | 9 | 142 | |
| 12 | 14 | 14 | | 152 | 9 | 161 | |
| 13 | 14 | 7 | | 100 | 9 | 142 | |
| 14 | 14 | | | 100 | 9 | 142 | |
| 15 | 14 | | | 85 | 38 | 142 | |
| 16 | 14 | | | 85 | 50 | 142 | |
| 17 | 14 | | | 100 | 200 | 142 | |
| 18 | 14 | | | 66 | 200 | 161 | |
| 19 | 14 | | 7 | 92 | 200 | 161 | 2 |
| 20 | 14 | | 16 | 107 | 200 | 161 | |
| 21 | 14 | 0 | 25 | 124 | 180 | 161 | |
| 22 | 14 | | 38 | 146 | 161 | 161 | |
| 23 | 14 | | 50 | 142 | 161 | 161 | |
| 24 | 14 | | 72 | 142 | 161 | 161 | |
| 25 | 14 | | 85 | 170 | 161 | 142 | |
| 26 | 14 | | 100 | 170 | 116 | 142 | |
| 27 | 14 | | 100 | 78 | 116 | 100 | |
| 28 | 14 | | 100 | 9 | 116 | 100 | |
| 29 | 14 | | 100 | 9 | 116 | 100 | |
| 30 | 14 | | 100 | 9 | 116 | 85 | |
| 31 | 14 | ------- | 104 | ------- | 142 | 85 | ------- |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 14 | 13 | 13.8 | 848 |
| November | 14 | 0 | 5.8 | 347 |
| December | ---------- | ---------- | 1 | 61 |
| January | ---------- | ---------- | 2 | 123 |
| February | ---------- | ---------- | 2 | 111 |
| March | ---------- | ---------- | 4 | 246 |
| April | ---------- | ---------- | 6 | 357 |
| May | 104 | ---------- | 33.0 | 2,030 |
| June | 170 | 9 | 107 | 6,370 |
| July | 200 | 9 | 82.6 | 5,080 |
| August | 170 | 85 | 144 | 8,850 |
| September | 85 | ---------- | 20.1 | 1,200 |
| The year | 200 | 0 | 35.4 | 25,600 |

### PRICE RIVER NEAR HELPER, UTAH

LOCATION.—Chain gage in SE. ¼ sec. 36, T. 13 S., R. 9 E., three-quarters of a mile above diversion dam of Price River Irrigation Co. and 2 miles south of Helper.

DRAINAGE AREA.—530 square miles.

RECORDS AVAILABLE.—February, 1904, to September, 1927.

EXTREMES.—Maximum discharge during year, probably between 9,000 and 10,000 second-feet during floods early in September (gage height, about 10.3 feet); minimum, 8 second-feet November 18 and December 10–12.

1904–1927: Maximum discharge, that of 1927; minimum, 4 second-feet during December, 1905, January, 1906, and August 8, 1925.

REMARKS.—Records fair. Discharge estimated December 13 to January 31. Discharge indeterminate June 27 to September 13 because of extreme floods. Main irrigation diversions are below station. Flow regulated by storage in reservoir on Fish Creek.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 14 | 14 | 12 | | 13 | 9 | 60 | 288 | 171 | ------- |
| 2 | 15 | 15 | 12 | | 15 | 22 | 64 | 288 | 171 | ------- |
| 3 | 22 | 15 | 14 | | 15 | 25 | 72 | 288 | 171 | ------- |
| 4 | 22 | 15 | 15 | | 15 | 31 | 68 | 281 | 166 | ------- |
| 5 | 22 | 15 | 11 | | 15 | 22 | 64 | 288 | 166 | ------- |
| 6 | 15 | 14 | 11 | | 15 | 22 | 79 | 288 | 194 | ------- |
| 7 | 13 | 14 | 11 | | 10 | 22 | 83 | 296 | 166 | ------- |
| 8 | 12 | 14 | 11 | | 11 | 24 | 90 | 296 | 160 | ------- |
| 9 | 13 | 9 | 7 | | 15 | 31 | 83 | 277 | 144 | ------- |
| 10 | 15 | 15 | 8 | | 12 | 24 | 72 | 259 | 194 | ------- |
| 11 | 14 | 15 | 8 | | 22 | 16 | 59 | 224 | 194 | ------- |
| 12 | 10 | 15 | 8 | | 15 | 22 | 64 | 191 | 227 | ------- |
| 13 | 11 | 15 | | | 15 | 29 | 56 | 174 | 262 | ------- |
| 14 | 11 | 17 | | | 15 | 33 | 56 | 155 | 139 | 93 |
| 15 | 11 | 10 | | | 15 | 37 | 56 | 180 | 124 | 50 |
| 16 | 11 | 10 | | 12 | 15 | 31 | 64 | 204 | 134 | 50 |
| 17 | 11 | 10 | | | 15 | 29 | 72 | 198 | 134 | 35 |
| 18 | 11 | 8 | | | 15 | 22 | 65 | 204 | 127 | 35 |
| 19 | 15 | 10 | | | 15 | 18 | 60 | 224 | 126 | 31 |
| 20 | 15 | 11 | | | 15 | 15 | 68 | 217 | 124 | 28 |
| 21 | 15 | 11 | | | 18 | 10 | 68 | 191 | 138 | 26 |
| 22 | 13 | 10 | 10 | | 20 | 22 | 86 | 164 | 152 | 24 |
| 23 | 12 | 10 | | | 27 | 37 | 112 | 142 | 224 | 59 |
| 24 | 13 | 11 | | | 21 | 37 | 137 | 137 | 180 | 38 |
| 25 | 15 | 11 | | | 24 | 75 | 163 | 129 | 155 | 39 |
| 26 | 16 | 11 | | | 26 | 83 | 191 | 155 | 166 | 44 |
| 27 | 15 | 11 | | | 30 | 86 | 217 | 191 | ------- | 42 |
| 28 | 15 | 11 | | | 20 | 90 | 288 | 191 | ------- | 38 |
| 29 | 14 | 10 | | | ------- | 90 | 277 | 188 | ------- | 38 |
| 30 | 13 | 11 | | | ------- | 90 | 296 | 185 | ------- | 38 |
| 31 | 13 | ------- | | | ------- | 90 | ------- | 174 | ------- | ------- |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 22 | 10 | 14.1 | 867 |
| November | 17 | 8 | 12.3 | 732 |
| December | ------- | ------- | 10.3 | 633 |
| January | ------- | ------- | 12 | 738 |
| February | 30 | 10 | 17.1 | 950 |
| March | 90 | 9 | 38.5 | 2,370 |
| April | 296 | 56 | 106 | 6,310 |
| May | 296 | 129 | 215 | 13,200 |
| June 1–26 | 262 | 124 | 166 | 8,560 |

### HUNTINGTON CREEK NEAR HUNTINGTON, UTAH

LOCATION.—Water-stage recorder in SE. ¼ sec. 6, T. 17 S., R. 8 E., 7 miles northwest of Huntington and above mouth of Fish Creek.

DRAINAGE AREA.—188 square miles.

RECORDS AVAILABLE.—May, 1909, to September, 1927; fragmentary.

EXTREMES.—Maximum discharge during year, about 2,000 second-feet September 10 (gage height, 6.9 feet); minimum not determined.

1909–1927: Maximum discharge, that of September 10, 1927; probably no flow November 5, 1925 (gage height, 1.24 feet).

REMARKS.—Records good except those for estimated periods, which are fair. Diversions for irrigation above station. Flow slightly regulated by storage reservoir above station.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 38 | 28 | 29 | | | | a45 | 306 | 230 | 132 | 108 | |
| 2 | 42 | 28 | 29 | | | a34 | a48 | 356 | 239 | 124 | 108 | a56 |
| 3 | 39 | 28 | 34 | | | | 52 | 430 | 230 | 121 | 108 | |
| 4 | 38 | 28 | 33 | | | 34 | | 411 | 253 | 124 | 108 | |
| 5 | 36 | 27 | 32 | | | | | 450 | 312 | 111 | 106 | 54 |
| 6 | 36 | 28 | 33 | | | | | 450 | 349 | 102 | 115 | |
| 7 | 37 | 29 | 33 | | | a34 | a40 | 356 | 353 | 95 | 110 | |
| 8 | 37 | 25 | 32 | | | | | 290 | 370 | 101 | 111 | a50 |
| 9 | 36 | 25 | 23 | | | | | 230 | 349 | 110 | 111 | |
| 10 | 35 | 28 | 22 | | | 27 | | 203 | 319 | 102 | 106 | a500 |
| 11 | 36 | 30 | 34 | | | | 30 | 203 | 296 | 87 | 108 | a250 |
| 12 | 35 | 30 | | | | | | 259 | 296 | 81 | 106 | a100 |
| 13 | 34 | 28 | | | | | | 339 | 312 | 74 | 102 | a300 |
| 14 | 33 | 29 | | | | | | 411 | 329 | 87 | 77 | a50 |
| 15 | 33 | 26 | | | a34 | | a32 | 574 | 367 | 108 | 74 | a40 |
| 16 | 32 | 33 | | a32 | | | | 730 | 300 | 104 | 67 | 38 |
| 17 | 32 | 26 | | | | a34 | 34 | 780 | 306 | 102 | 64 | 41 |
| 18 | 31 | 32 | | | | | 43 | 685 | 281 | 111 | 62 | 36 |
| 19 | 31 | 33 | | | | | 38 | 553 | 259 | 121 | a64 | 34 |
| 20 | 31 | 30 | | | | | 34 | 450 | 244 | 124 | 67 | 33 |
| 21 | 31 | 31 | a30 | | | | 38 | 381 | 219 | 132 | | 34 |
| 22 | 31 | 30 | | | | | 54 | 332 | 200 | 119 | | 55 |
| 23 | 31 | 30 | | | | 34 | 67 | 278 | 190 | 117 | a75 | 45 |
| 24 | 30 | 30 | | | | | a75 | 244 | 180 | 119 | | 47 |
| 25 | 29 | 29 | | | | | 89 | 271 | 164 | 123 | | 46 |
| 26 | 29 | 28 | | | | a36 | 124 | 322 | 166 | 126 | a100 | 53 |
| 27 | 29 | 36 | | | | | 155 | 363 | 176 | 132 | a150 | 51 |
| 28 | 29 | 31 | | | | | 190 | 356 | 183 | 126 | a70 | 42 |
| 29 | 27 | 29 | | | ------- | | 244 | 265 | 169 | 126 | | 42 |
| 30 | 25 | 31 | | | ------- | 39 | 259 | 250 | 155 | 113 | a60 | 43 |
| 31 | 27 | ------- | | | ------- | a42 | ------- | 244 | ------- | 110 | | ------ |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 42 | 25 | 32.9 | 2,020 |
| November | 36 | 25 | 29.2 | 1,740 |
| December | ---------- | ---------- | 30.1 | 1,850 |
| January | ---------- | ---------- | 32 | 1,970 |
| February | ---------- | ---------- | 34 | 1,890 |
| March | ---------- | ---------- | 34.6 | 2,130 |
| April | 259 | ---------- | 68.6 | 4,080 |
| May | 780 | 203 | 380 | 23,400 |
| June | 370 | 155 | 260 | 15,500 |
| July | 132 | 74 | 112 | 6,890 |
| August | ---------- | ---------- | 88.9 | 5,470 |
| September | ---------- | 33 | 78.6 | 4,680 |
| The year | ---------- | ---------- | 98.8 | 71,600 |

a Estimated.

### COTTONWOOD CREEK NEAR ORANGEVILLE, UTAH

LOCATION.—Water-stage recorder in SW. ¼ sec. 10, T. 18 S., R. 7 E., 2 miles upstream from Grimes Wash and 5 miles northwest of Orangeville.

DRAINAGE AREA.—200 square miles.

RECORDS AVAILABLE.—May, 1909, to September, 1927 (discontinued); fragmentary.

EXTREMES.—Maximum discharge during year, 2,500 second-feet September 9 (gage height, 9.2 feet); minimum, less than 8 second-feet during winter. 1909–1927: Maximum discharge, about 2,500 second-feet August 22, 1922, and September 9, 1927; maximum gage height, that of September 9, 1927; minimum discharge, 5 second-feet September 21, 1910.

REMARKS.—Records poor. Discharge interpolated or estimated October 1–5, 20–26, December 3–7, and December 10 to March 23. Small diversions for irrigation above station.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 14 | 18 | | 10 | | 32 | 246 | 324 | 170 | 77 | 37 |
| 2 | | 14 | 20 | | 10 | | 44 | 258 | 321 | 160 | 75 | 36 |
| 3 | 27 | 14 | | | | | 49 | 276 | 308 | 158 | 72 | 33 |
| 4 | | 14 | | | | | 42 | 282 | 334 | 155 | 81 | 33 |
| 5 | | 14 | 16 | | | | 34 | 301 | 389 | 153 | 72 | 33 |
| 6 | 24 | 15 | | | | | 43 | 327 | 433 | 146 | 90 | 33 |
| 7 | 23 | 13 | | | | | 54 | 321 | 452 | 141 | 81 | 63 |
| 8 | 21 | 12 | 13 | | | 15 | 55 | 288 | 476 | 153 | 81 | 54 |
| 9 | 20 | 13 | 8 | | | | 42 | 252 | 452 | 190 | 72 | 364 |
| 10 | 17 | 21 | | | | | 36 | 224 | 422 | 153 | 73 | 79 |
| 11 | 16 | 16 | | | | | 34 | 210 | 393 | 141 | 99 | 42 |
| 12 | 14 | 15 | | | | | 28 | 238 | 396 | 135 | 99 | 52 |
| 13 | 13 | 14 | | | | | 29 | 324 | 396 | 128 | 68 | 241 |
| 14 | 13 | 15 | | | | | 29 | 437 | 386 | 120 | 65 | 97 |
| 15 | 14 | 25 | | | | | 32 | 503 | 375 | 113 | 63 | 43 |
| 16 | 15 | 23 | | 9 | 10 | | 34 | 583 | 347 | 109 | 62 | 33 |
| 17 | 16 | 25 | | | | | 29 | 800 | 330 | 103 | 62 | 34 |
| 18 | 17 | 25 | | | | | 37 | 750 | 324 | 103 | 63 | 24 |
| 19 | 17 | 27 | | | | | 44 | 600 | 304 | 107 | 63 | 22 |
| 20 | | 21 | 9 | | | 30 | 38 | 475 | 292 | 116 | 62 | 22 |
| 21 | | 21 | | | | | 36 | 418 | 279 | 118 | 90 | 22 |
| 22 | | 15 | | | | | 52 | 378 | 264 | 148 | 60 | 44 |
| 23 | 17 | 15 | | | | | 63 | 334 | 252 | 190 | 55 | 33 |
| 24 | | 15 | | | | 60 | 84 | 324 | 249 | 113 | 52 | 40 |
| 25 | | 15 | | | | 70 | 111 | 350 | 235 | 111 | 62 | 38 |
| 26 | | 17 | | | | 82 | 133 | 411 | 224 | 120 | 99 | 46 |
| 27 | 17 | 21 | | | | 70 | 172 | 429 | 232 | 141 | 109 | 32 |
| 28 | 17 | 18 | | | | 62 | 197 | 426 | 249 | 190 | 81 | 21 |
| 29 | 15 | 14 | | | ------- | 54 | 219 | 372 | 205 | 109 | 81 | 18 |
| 30 | 12 | 17 | | | ------- | 44 | 232 | 350 | 190 | 88 | 48 | 18 |
| 31 | 14 | ------- | | | ------- | 32 | ------- | 344 | ------- | 81 | 40 | ------- |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | ---------- | 12 | 18.4 | 1,130 |
| November | 27 | 12 | 17.3 | 1,030 |
| December | ---------- | ---------- | 10.9 | 670 |
| January | ---------- | ---------- | 9 | 553 |
| February | ---------- | ---------- | 10 | 555 |
| March | 82 | ---------- | 30.3 | 1,860 |
| April | 232 | 28 | 68.8 | 4,090 |
| May | 800 | 210 | 382 | 23,500 |
| June | 476 | 190 | 328 | 19,500 |
| July | 190 | 81 | 134 | 8,240 |
| August | 109 | 40 | 72.8 | 4,480 |
| September | 364 | 18 | 56.2 | 3,340 |
| The year | 800 | ---------- | 95.2 | 68,900 |

## SAN JUAN RIVER BASIN

### SAN JUAN RIVER NEAR BLUFF, UTAH

LOCATION.—Water-stage recorder in SE. ¼ sec. 7, T. 42 S., R. 19 E., 2,000 feet below Gypsum Wash and 20 miles southwest of Bluff.

DRAINAGE AREA.—24,000 square miles.

RECORDS AVAILABLE.—October, 1914, to September, 1917; March to September, 1927.

EXTREMES.—Maximum discharge during year, about 70,000 second-feet September 10 (gage height, 32 feet); minimum not recorded.

1914–1917, 1927: Maximum discharge, that of September 10, 1927; minimum, 199 second-feet December 10, 1916.

REMARKS.—Records for discharge between 1,000 and 15,000 second-feet good; others fair. Diversions for irrigation above station.

*Daily and monthly discharge, in second-feet, 1927*

| Day | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|
| 1 | | 5,120 | 11,700 | 7,540 | 36,400 | 1,850 | 1,500 |
| 2 | | 4,690 | 12,100 | 7,520 | 20,400 | 1,670 | 1,440 |
| 3 | | 4,400 | 12,600 | 7,820 | 14,300 | 1,530 | 1,230 |
| 4 | | 5,410 | 12,900 | 7,860 | 11,400 | 1,840 | 1,110 |
| 5 | | 6,800 | 13,200 | 7,350 | 9,530 | 1,790 | 1,110 |
| 6 | | 8,670 | 13,200 | 7,120 | 9,150 | 1,980 | 1,040 |
| 7 | | 8,550 | 12,600 | 7,080 | 7,980 | 3,310 | 4,850 |
| 8 | | 8,950 | 11,500 | 7,270 | 6,650 | 2,530 | 7,500 |
| 9 | | 9,030 | 11,700 | 7,690 | 6,170 | 2,540 | 15,800 |
| 10 | | 7,690 | 9,880 | 8,930 | 6,310 | 2,010 | 32,900 |
| 11 | | 6,170 | 7,350 | 9,270 | 7,880 | 2,140 | 28,900 |
| 12 | | 5,580 | 5,920 | 9,050 | 8,070 | 3,210 | 29,400 |
| 13 | | 5,210 | 5,240 | 8,470 | 5,960 | 2,320 | 25,500 |
| 14 | | 4,310 | 5,190 | 8,610 | 5,620 | 2,020 | 36,400 |
| 15 | | 3,600 | 6,830 | 7,840 | 4,370 | 1,880 | 26,000 |
| 16 | 1,190 | 3,030 | 9,820 | 7,200 | 3,780 | 1,580 | 17,400 |
| 17 | 1,820 | 2,730 | 11,600 | 8,650 | 3,280 | 1,530 | 14,400 |
| 18 | 1,590 | 2,500 | 13,800 | 7,670 | 2,840 | 1,390 | 10,300 |
| 19 | 1,340 | 2,710 | 15,200 | 7,180 | 2,550 | 1,190 | 11,600 |
| 20 | 1,210 | 2,710 | 16,000 | 8,210 | 2,280 | 1,100 | 14,600 |
| 21 | 1,250 | 3,110 | 14,900 | 8,670 | 2,110 | 1,000 | 8,670 |
| 22 | 1,290 | 3,630 | 13,200 | 7,500 | 1,910 | 1,110 | 6,620 |
| 23 | 1,050 | 4,530 | 12,700 | 6,740 | 1,840 | 1,270 | 5,780 |
| 24 | 1,000 | 5,190 | 12,400 | 6,310 | 2,000 | 900 | 5,530 |
| 25 | 1,120 | 6,580 | 11,000 | 5,970 | 2,080 | 870 | 6,580 |
| 26 | 1,620 | 8,470 | 10,100 | 5,990 | 2,820 | 1,720 | 9,980 |
| 27 | 2,660 | 10,300 | 10,400 | 6,130 | 2,800 | 3,820 | 9,980 |
| 28 | 3,250 | 11,000 | 10,800 | 20,500 | 4,690 | 3,380 | 7,400 |
| 29 | 3,680 | 10,900 | 10,100 | 24,000 | 2,960 | 3,750 | 6,490 |
| 30 | 4,040 | 11,200 | 9,310 | 52,000 | 2,790 | 2,500 | 6,040 |
| 31 | 4,500 | | 8,290 | | 2,380 | 2,000 | |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| March 16–31 | 4,500 | 1,000 | 2,040 | 64,700 |
| April | 11,200 | 2,500 | 6,090 | 362,000 |
| May | 16,000 | 5,190 | 11,000 | 676,000 |
| June | 52,000 | 5,970 | 10,100 | 601,000 |
| July | 36,400 | 1,840 | 6,560 | 403,000 |
| August | 3,820 | 870 | 2,000 | 123,000 |
| September | 32,900 | 1,040 | 11,900 | 708,000 |
| The period | | | | 2,940,000 |

## PARIA RIVER BASIN

### PARIA RIVER AT LEES FERRY, ARIZ.

LOCATION.—Staff gage half a mile above mouth and 1 mile northwest of Lees Ferry, Coconino County.

DRAINAGE AREA.—1,520 square miles.

RECORDS AVAILABLE.—November, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, 13,800 second-feet September 13 (gage height, 16.0 feet); no flow during night from December 16 to January 10.

1923–1927: Maximum discharge, 16,100 second-feet October 5, 1925 (gage height, 17.5 feet); no flow on several nights in December and January of most years.

REMARKS.—Records good. Discharge interpolated or estimated because of ice or missing gage-height record December 16 to January 10, January 19, 20, March 24, 26, 27, and July 1 and 15–25. Diversions for irrigation above station.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 39 | 21 | 19 | 11 | 16 | 103 | 12 | 3 | 2 | 19 | 34 | 16 |
| 2 | 14 | 23 | 19 | 11 | 15 | 64 | 12 | 2 | 2 | 14 | 38 | 12 |
| 3 | 14 | 22 | 20 | 9 | 21 | 59 | 13 | 2 | 2 | 10 | 410 | 10 |
| 4 | 14 | 20 | 18 | 9 | 22 | 192 | 15 | 2 | 2 | 8 | 209 | 19 |
| 5 | 13 | 22 | 19 | 10 | 20 | 114 | 16 | 2 | 2 | 6 | 38 | 19 |
| 6 | 12 | 20 | 21 | 11 | 19 | 75 | 10 | 2 | 2 | 6 | 145 | 19 |
| 7 | 12 | 16 | 23 | 10 | 16 | 75 | 9 | 1 | 2 | 4 | 680 | 256 |
| 8 | 12 | 15 | 34 | 9 | 16 | 73 | 7 | 2 | 2 | 4 | 163 | 24 |
| 9 | 12 | 15 | 28 | 10 | 15 | 80 | 5 | 2 | 2 | 3 | 176 | 12 |
| 10 | 12 | 15 | 26 | 10 | 14 | 71 | 5 | 2 | 3 | 55 | 38 | 10 |
| 11 | 12 | 14 | 27 | 25 | 15 | 71 | 5 | 2 | 3 | 8 | 27 | 8 |
| 12 | 14 | 15 | 19 | 30 | 14 | 67 | 5 | 2 | 4 | 6 | 25 | 2,490 |
| 13 | 14 | 236 | 26 | 36 | 13 | 66 | 4 | 2 | 5 | 310 | 20 | 6,750 |
| 14 | 14 | 114 | 24 | 34 | 12 | 59 | 5 | 2 | 25 | 11 | 18 | 1,590 |
| 15 | 15 | 24 | 25 | 32 | 27 | 62 | 4 | 2 | 6 | 2 | 13 | 420 |
| 16 | 14 | 21 | 25 | 30 | 247 | 54 | 5 | 2 | 4 | 1 | 10 | 44 |
| 17 | 14 | 20 | 26 | 33 | 406 | 50 | 5 | 2 | 4 | 1 | 10 | 272 |
| 18 | 16 | 14 | 13 | 32 | 89 | 45 | 6 | 2 | 4 | 1 | 9 | 157 |
| 19 | 16 | 15 | 17 | 31 | 32 | 28 | 5 | 2 | 5 | 1 | 11 | 55 |
| 20 | 14 | 14 | 12 | 31 | 25 | 20 | 5 | 3 | 3 | 1 | 6 | 12 |
| 21 | 15 | 14 | 14 | 30 | 17 | 32 | 5 | 2 | 3 | 1 | 8 | 6 |
| 22 | 15 | 14 | 12 | 27 | 20 | 26 | 5 | 2 | 2 | 1 | 9 | 1 |
| 23 | 16 | 14 | 1 | 30 | 89 | 26 | 5 | 2 | 2 | 1 | 8 | 272 |
| 24 | 16 | 13 | 9 | 18 | 44 | 26 | 4 | 2 | 2 | 1 | 8 | 54 |
| 25 | 16 | 12 | 11 | 15 | 44 | 26 | 4 | 2 | 1 | 1 | 7 | 40 |
| 26 | 16 | 12 | 12 | 22 | 66 | 24 | 4 | 2 | 2 | 490 | 2 | 40 |
| 27 | 17 | 12 | 14 | 21 | 69 | 21 | 4 | 2 | 189 | 247 | 1 | 38 |
| 28 | 17 | 195 | 14 | 21 | 119 | 19 | 3 | 2 | 26 | 114 | 1 | 25 |
| 29 | 18 | 73 | 12 | 21 | ------ | 18 | 3 | 2 | 201 | 48 | 15 | 23 |
| 30 | 18 | 33 | 12 | 18 | ------ | 18 | 3 | 2 | 24 | 38 | 80 | 19 |
| 31 | 19 | ------ | 10 | 17 | ------ | 13 | ------ | 2 | ------ | 39 | 19 | ------ |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 39 | 12 | 15.5 | 953 |
| November | 236 | 12 | 35.6 | 2,120 |
| December | 34 | 1 | 18.1 | 1,110 |
| January | 36 | 9 | 21.1 | 1,300 |
| February | 406 | 12 | 54.4 | 3,020 |
| March | 192 | 13 | 54.1 | 3,330 |
| April | 16 | 3 | 6.4 | 381 |
| May | 3 | 1 | 2.0 | 123 |
| June | 201 | 1 | 17.9 | 1,070 |
| July | 490 | 1 | 46.8 | 2,880 |
| August | 680 | 1 | 72.2 | 4,440 |
| September | 6,750 | 1 | 424 | 25,200 |
| The year | 6,750 | 1 | 63.4 | 45,900 |

## LITTLE COLORADO RIVER BASIN

### LITTLE COLORADO RIVER AT GRAND FALLS, ARIZ.

LOCATION.—Water-stage recorder in T. 24 N., R. 11 E., unsurveyed, on Navajo Indian Reservation at Grand Falls, 38 miles northeast of Flagstaff. Zero of gage is about 4,440 feet above mean sea level.

DRAINAGE AREA.—22,100 square miles.

RECORDS AVAILABLE.—November, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 28,800 second-feet June 28 (gage height, 22.9 feet); no flow several days during January, May, and June.

1925–1927: Maximum discharge, that of June 28, 1927; no flow during periods of each year.

REMARKS.—Records good. Discharge estimated November 28–30, March 7–16, April 9–13, 27–30, May 1, 7–19, and August 25–26. Diversions for irrigation above station.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 210 | 10 | 17 | 3 | 20 | 2,560 | 1,890 | 450 | 0 | .868 | 135 | 355 |
| 2 | 135 | 13 | 18 | 2 | 19 | 2,410 | 1,290 | 391 | 0 | 545 | 125 | 743 |
| 3 | 100 | 18 | 17 | 1 | 20 | 1,700 | 1,110 | 314 | 0 | 355 | 125 | 235 |
| 4 | 85 | 28 | 19 | 0 | 19 | 1,410 | 1,040 | 256 | 0 | 270 | 380 | 75 |
| 5 | 80 | 38 | 20 | 0 | 18 | 1,290 | 1,250 | 194 | 0 | 678 | 355 | 60 |
| 6 | 80 | 31 | 20 | 0 | 21 | 1,350 | 1,810 | 170 | 0 | 655 | 185 | 1,600 |
| 7 | 63 | 28 | 18 | 0 | 28 | 1,300 | 1,800 | 155 | 0 | 420 | 207 | 2,960 |
| 8 | 47 | 23 | 18 | 7 | 28 | 1,200 | 1,550 | 145 | 0 | 310 | 320 | 1,120 |
| 9 | 41 | 20 | 23 | 34 | 25 | 1,100 | 1,370 | 135 | 0 | 250 | 179 | 1,730 |
| 10 | 34 | 18 | 23 | 319 | 23 | 1,000 | 1,190 | 125 | 0 | 220 | 150 | 1,330 |
| 11 | 26 | 17 | 22 | 242 | 38 | 1,100 | 1,010 | 115 | 0 | 766 | 113 | 1,370 |
| 12 | 23 | 16 | 18 | 150 | 46 | 1,100 | 840 | 105 | 0 | 655 | 96 | 4,670 |
| 13 | 22 | 16 | 18 | 102 | 42 | 1,000 | 670 | 95 | 0 | 330 | 1,360 | 8,190 |
| 14 | 22 | 18 | 21 | 80 | 38 | 900 | 495 | 85 | 35 | 210 | 270 | 4,870 |
| 15 | 21 | 20 | 14 | 65 | 35 | 900 | 355 | 75 | 12 | 179 | 185 | 2,620 |
| 16 | 21 | 18 | 9 | 56 | 31 | 900 | 249 | 65 | 0 | 168 | 256 | 1,390 |
| 17 | 20 | 17 | 11 | 55 | 35 | 1,450 | 210 | 55 | 0 | 150 | 115 | 3,220 |
| 18 | 17 | 18 | 13 | 44 | 5,400 | 1,230 | 145 | 45 | 0 | 145 | 226 | 5,540 |
| 19 | 15 | 18 | 18 | 35 | 5,480 | 880 | 170 | 35 | 0 | 143 | 200 | 5,680 |
| 20 | 15 | 18 | 20 | 28 | 3,280 | 715 | 270 | 26 | 0 | 137 | 152 | 4,030 |
| 21 | 13 | 17 | 24 | 26 | 2,340 | 630 | 414 | 15 | 0 | 137 | 93 | 1,910 |
| 22 | 12 | 17 | 42 | 22 | 1,910 | 655 | 674 | 0 | 0 | 139 | 70 | 1,220 |
| 23 | 12 | 17 | 16 | 22 | 1,930 | 545 | 775 | 0 | 0 | 137 | 55 | 830 |
| 24 | 12 | 16 | 12 | 20 | 2,020 | 515 | 775 | 0 | 0 | 134 | 50 | 650 |
| 25 | 12 | 16 | 7 | 25 | 1,980 | 495 | 805 | 0 | 0 | 124 | 50 | 490 |
| 26 | 11 | 15 | 9 | 28 | 1,970 | 733 | 805 | 0 | 0 | 126 | 75 | 400 |
| 27 | 10 | 14 | 10 | 32 | 1,720 | 1,430 | 730 | 0 | 0 | 220 | 1,190 | 310 |
| 28 | 10 | 15 | 9 | 33 | 2,230 | 1,840 | 660 | 0 | 3,730 | 751 | 1,120 | 230 |
| 29 | 9 | 16 | 8 | 32 | ------- | 1,860 | 590 | 0 | 12,700 | 400 | 956 | 170 |
| 30 | 8 | 17 | 6 | 28 | ------- | 1,840 | 520 | 0 | 2,170 | 545 | 565 | 120 |
| 31 | 9 | ------- | 4 | 22 | ------- | 1,750 | ------- | 0 | ------- | 250 | 1,150 | ------- |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 210 | 8 | 38.5 | 2,370 |
| November | 38 | 10 | 18.8 | 1,120 |
| December | 42 | 4 | 16.3 | 1,000 |
| January | 319 | 0 | 48.8 | 3,000 |
| February | 5,480 | 18 | 1,100 | 61,000 |
| March | 2,560 | 495 | 1,220 | 75,000 |
| April | 1,890 | 145 | 849 | 50,500 |
| May | 450 | 0 | 98.4 | 6,050 |
| June | 12,700 | 0 | 622 | 37,000 |
| July | 868 | 124 | 336 | 20,700 |
| August | 1,360 | 50 | 339 | 20,800 |
| September | 8,190 | 60 | 1,940 | 115,000 |
| The year | 12,700 | 0 | 544 | 394,000 |

### ZUNI RIVER AT BLACKROCK, N. MEX.

LOCATION.—At reservoir on Zuni Indian Reservation at Blackrock, McKinley County, and 4 miles below mouth of Rio de Los Nutrias.
DRAINAGE AREA.—660 square miles.
RECORDS AVAILABLE.—Yearly discharge July, 1903, to June, 1905; July, 1908, to June, 1910. Monthly discharge October, 1910, to September, 1927.
REMARKS.—No flow during part of year, but river is subject to sudden floods of considerable volume and usually of short duration. Diversions for irrigation above station. Record furnished by United States Indian Service.

*Monthly run-off, 1926–27*

| | Acre-feet | | Acre-feet | | Acre-feet |
|---|---|---|---|---|---|
| October | 0 | March | 7,310 | August | 950 |
| November | 0 | April | 0 | September | 4,200 |
| December | 60 | May | 410 | | |
| January | 524 | June | 0 | The year | 16,100 |
| February | 1,840 | July | 788 | | |

### MOENKOPI WASH NEAR TUBA CITY, ARIZ.

LOCATION.—Staff gage in T. 31 N., R. 10 E., unsurveyed, on Navajo Indian Reservation at highway bridge 5 miles southwest of Tuba City and 17 miles above mouth.
DRAINAGE AREA.—2,280 square miles.
RECORDS AVAILABLE.—July, 1926, to September, 1927.
EXTREMES.—Maximum discharge during period of record, 12,900 second-feet September 17, 1927 (gage height, 24.0 feet); no flow several days.
REMARKS.—Records fair. Diversions for irrigation above station, none below.

*Daily and monthly discharge, in second-feet, of Moenkopi Wash near Tuba City, Ariz., 1926–27*

| Day | July | Aug. | Sept. | Day | July | Aug. | Sept. | Day | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1926 | | | | 1926 | | | | 1926 | | | |
| 1 | a 0 | a 8 | a 0 | 11 | a 0 | 7 | 6 | 21 | a 0 | a 0 | 5 |
| 2 | a 0 | 7 | a 0 | 12 | a 0 | 7 | 62 | 22 | a 0 | a 2 | a 6 |
| 3 | a 0 | 5 | 1 | 13 | 0 | 5 | 5 | 23 | a 0 | 4 | a 6 |
| 4 | a 0 | 20 | 1 | 14 | a 0 | 6 | 5 | 24 | a 0 | 5 | 7 |
| 5 | a 0 | 20 | a 3 | 15 | a 0 | a 3 | 5 | 25 | a 0 | a 4 | 7 |
| 6 | a 10 | 62 | 5 | 16 | a 0 | 0 | 5 | 26 | a 0 | a 2 | 760 |
| 7 | a 0 | 40 | 5 | 17 | a 0 | 0 | 3 | 27 | 7 | 1 | 13 |
| 8 | a 0 | 13 | 5 | 18 | a 0 | a 0 | 5 | 28 | 13 | 1 | 10 |
| 9 | a 0 | 10 | 5 | 19 | a 0 | a 0 | a 5 | 29 | 13 | a 1 | a 7 |
| 10 | a 0 | 7 | 5 | 20 | a 0 | a 0 | 5 | 30 | 10 | 1 | a 6 |
| | | | | | | | | 31 | 10 | 1 | |

a Interpolated or estimated.

*Daily and monthly discharge, in second-feet, of Moenkopi Wash near Tuba City, Ariz., 1926–27*—Continued

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1926-27 | | | | | | | | | | | | |
| 1 | 5 | 5 | a 6 | 5 | 5 | 7 | 1 | a 0 | a 0 | 10 | 0 | a 10 |
| 2 | 5 | 5 | 5 | a 5 | a 5 | a 7 | 1 | 0 | a 0 | 5 | 20 | 10 |
| 3 | a 5 | a 5 | 7 | 5 | a 5 | a 7 | a 0 | 0 | 0 | a 8 | a 15 | 10 |
| 4 | 5 | a 5 | 7 | 5 | 5 | 7 | 0 | a 0 | 0 | 10 | a 10 | a 10 |
| 5 | 5 | 5 | 13 | a 6 | 5 | 7 | 0 | a 0 | a 0 | 16 | 10 | 10 |
| 6 | a 5 | 5 | 10 | a 6 | a 5 | a 6 | a 0 | a 0 | 0 | a 10 | 27 | 10 |
| 7 | a 5 | a 6 | 10 | 7 | 5 | 5 | a 0 | a 0 | 0 | a 5 | a 10 | 248 |
| 8 | 5 | 7 | 5 | 10 | 5 | 5 | 0 | a 0 | a 0 | 1 | 10 | 10 |
| 9 | 5 | 7 | 5 | a 8 | a 5 | a 5 | 0 | 0 | a 0 | 1 | 7 | 27 |
| 10 | a 5 | a 6 | 5 | 7 | a 5 | a 5 | a 0 | 0 | 0 | a 5 | a 7 | 20 |
| 11 | 5 | a 6 | 5 | 7 | 5 | 5 | 0 | a 0 | 0 | 10 | a 7 | a 10 |
| 12 | 5 | 5 | a 6 | a 7 | 5 | 5 | 0 | a 0 | 13 | 10 | 62 | 155 |
| 13 | a 4 | 5 | 7 | a 7 | 5 | a 5 | a 0 | 0 | 10 | 4 | 36 | 98 |
| 14 | 4 | a 6 | 7 | 7 | 5 | 5 | a 0 | 0 | 0 | a 2 | a 10 | a 20 |
| 15 | 5 | 7 | a 6 | 7 | 5 | 5 | 0 | a 0 | a 0 | 0 | 10 | a 10 |
| 16 | 5 | 7 | a 6 | a 7 | a 5 | a 5 | 0 | 0 | a 0 | 0 | 16 | 10 |
| 17 | a 5 | a 7 | 5 | 7 | a 10 | a 5 | a 0 | 0 | 0 | a 0 | a 10 | 1,770 |
| 18 | 5 | a 7 | 5 | 10 | 13 | 5 | 0 | a 0 | 0 | 0 | a 0 | 35 |
| 19 | 5 | 7 | a 5 | a 8 | 10 | 5 | 0 | a 0 | a 0 | 0 | 0 | 10 |
| 20 | 5 | 7 | 5 | a 7 | a 8 | a 4 | a 0 | 0 | 0 | a 0 | 0 | 10 |
| 21 | 5 | a 7 | 5 | 6 | 5 | 3 | a 0 | 0 | 0 | a 0 | a 0 | 7 |
| 22 | 5 | 7 | a 5 | 7 | 5 | a 3 | 0 | a 0 | 0 | 0 | 0 | a 7 |
| 23 | 5 | 7 | a 5 | a 7 | a 5 | a 3 | 0 | 0 | a 0 | 0 | 0 | 7 |
| 24 | a 5 | a 7 | 5 | 7 | a 5 | a 3 | a 0 | 0 | 0 | a 0 | a 0 | 7 |
| 25 | 5 | a 7 | 5 | 6 | 5 | a 3 | 0 | a 0 | 0 | 0 | 52 | a 7 |
| 26 | 5 | 7 | a 5 | a 6 | 5 | a 3 | 0 | a 0 | a 0 | 0 | 1 | 7 |
| 27 | a 5 | 7 | 5 | a 5 | a 6 | 3 | a 0 | 0 | 0 | a 0 | 20 | 7 |
| 28 | a 5 | a 7 | 5 | 5 | 7 | 5 | a 0 | 0 | 760 | a 0 | a 10 | a 7 |
| 29 | 5 | 7 | a 5 | 5 | ------ | 5 | 0 | a 0 | a 20 | 10 | 10 | a 7 |
| 30 | 5 | 7 | a 5 | a 5 | ------ | a 4 | 0 | 0 | a 10 | 7 | 10 | 7 |
| 31 | a 5 | ------ | 5 | 5 | ------ | a 2 | ------ | 0 | ------ | a 5 | a 10 | ------ |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| 1926 | | | | |
| July | 13 | 0 | 2.0 | 123 |
| August | 62 | 0 | 7.8 | 480 |
| September | 760 | 0 | 32.1 | 1,910 |
| The period | | | | 2,510 |
| 1926-27 | | | | |
| October | 5 | 4 | 4.9 | 301 |
| November | 7 | 5 | 6.3 | 375 |
| December | 13 | 5 | 6.0 | 369 |
| January | 10 | 5 | 6.5 | 400 |
| February | 13 | 5 | 5.9 | 328 |
| March | 7 | 2 | 4.7 | 289 |
| April | 1 | 0 | .1 | 4 |
| May | 0 | 0 | 0 | 0 |
| June | 760 | 0 | 27.1 | 1,610 |
| July | 16 | 0 | 3.8 | 234 |
| August | 62 | 0 | 12.3 | 756 |
| September | 1,770 | 7 | 85.4 | 5,080 |
| The year | 1,770 | 0 | 13.5 | 9,750 |

a Interpolated or estimated.

## BRIGHT ANGEL CREEK BASIN

### BRIGHT ANGEL CREEK NEAR GRAND CANYON, ARIZ.

LOCATION.—Staff gage in Grand Canyon of Arizona, 11 miles by trail from Grand Canyon, Coconino County, and a quarter of a mile above mouth.
DRAINAGE AREA.—102 square miles.
RECORDS AVAILABLE.—October, 1923, to September, 1927.
EXTREMES.—Maximum discharge during year, about 1,000 second-feet September 16 (gage height, 6.0 feet); minimum, 19 second-feet October 24 and 25 (gage height, 0.69 foot).

1923–1927: Maximum discharge, about 1,000 second-feet July 27, 1926, and September 16, 1927; minimum discharge, 16 second-feet October 26, 1925.
REMARKS.—Records good. Diversions for irrigation above station.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 23 | 22 | 23 | 22 | 23 | 37 | 35 | 341 | 53 | 32 | 30 | 23 |
| 2 | 24 | 22 | 24 | 22 | 23 | 43 | 39 | 311 | 51 | 29 | 26 | 24 |
| 3 | 22 | 22 | 25 | 22 | 23 | 28 | 37 | 309 | 50 | 29 | 23 | 23 |
| 4 | 22 | 21 | 25 | 22 | 23 | 30 | 45 | 327 | 46 | 33 | 68 | 24 |
| 5 | 22 | 21 | 27 | 22 | 23 | 29 | 53 | 295 | 43 | 29 | 22 | 24 |
| 6 | 21 | 21 | 26 | 22 | 23 | 31 | 57 | 297 | 40 | 29 | 21 | 25 |
| 7 | 22 | 21 | 26 | 22 | 23 | 34 | 63 | 285 | 41 | 28 | 20 | 24 |
| 8 | 29 | 21 | 29 | 23 | 23 | 31 | 76 | 243 | 38 | 28 | 21 | 24 |
| 9 | 26 | 21 | 26 | 23 | 23 | 27 | 85 | 193 | 37 | 28 | 20 | 24 |
| 10 | 22 | 20 | 25 | 22 | 23 | 32 | 80 | 153 | 36 | 29 | 20 | 24 |
| 11 | 22 | 22 | 25 | 23 | 24 | 36 | 70 | 132 | 37 | 27 | 20 | 23 |
| 12 | 22 | 23 | 26 | 24 | 24 | 29 | 54 | 125 | 38 | 28 | 21 | 34 |
| 13 | 22 | 29 | 25 | 24 | 23 | 26 | 45 | 131 | 37 | 28 | 20 | 32 |
| 14 | 21 | 23 | 25 | 23 | 24 | 26 | 43 | 159 | 50 | 27 | 22 | 28 |
| 15 | 22 | 23 | 24 | 22 | 29 | 25 | 41 | 173 | 36 | 27 | 22 | 25 |
| 16 | 21 | 22 | 24 | 23 | 254 | 26 | 38 | 173 | 35 | 26 | 22 | 127 |
| 17 | 21 | 22 | 25 | 23 | 90 | 24 | 39 | 172 | 33 | 25 | 22 | 35 |
| 18 | 20 | 21 | 24 | 22 | 45 | 24 | 37 | 169 | 33 | 25 | 22 | 29 |
| 19 | 22 | 20 | 23 | 22 | 29 | 23 | 38 | 164 | 33 | 25 | 22 | 29 |
| 20 | 21 | 21 | 25 | 21 | 23 | 23 | 50 | 156 | 32 | 25 | 22 | 27 |
| 21 | 20 | 20 | 25 | 21 | 27 | 23 | 71 | 128 | 30 | 25 | 22 | 26 |
| 22 | 21 | 21 | 25 | 21 | 28 | 24 | 100 | 117 | 31 | 25 | 23 | 25 |
| 23 | 21 | 22 | 26 | 21 | 34 | 23 | 143 | 101 | 31 | 25 | 23 | 25 |
| 24 | 20 | 23 | 25 | 20 | 30 | 28 | 183 | 87 | 31 | 25 | 23 | 26 |
| 25 | 20 | 23 | 26 | 21 | 27 | 30 | 183 | 81 | 31 | 26 | 25 | 26 |
| 26 | 20 | 23 | 25 | 21 | 33 | 31 | 203 | 77 | 31 | 25 | 24 | 26 |
| 27 | 20 | 29 | 24 | 23 | 90 | 36 | 254 | 74 | 32 | 25 | 72 | 26 |
| 28 | 22 | 24 | 23 | 23 | 121 | 33 | 270 | 72 | 39 | 25 | 25 | 26 |
| 29 | 21 | 23 | 22 | 22 | ------- | 34 | 417 | 67 | 33 | 25 | 26 | 26 |
| 30 | 22 | 23 | 22 | 23 | ------- | 37 | 389 | 63 | 33 | 23 | 23 | 26 |
| 31 | 22 | ------- | 22 | 23 | ------- | 37 | ------- | 56 | ------- | 23 | 23 | ------- |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 29 | 20 | 21.8 | 1,340 |
| November | 29 | 20 | 22.3 | 1,330 |
| December | 29 | 22 | 24.7 | 1,520 |
| January | 24 | 20 | 22.2 | 1,360 |
| February | 254 | 23 | 42.3 | 2,350 |
| March | 43 | 23 | 29.7 | 1,830 |
| April | 417 | 35 | 108 | 6,430 |
| May | 341 | 56 | 169 | 10,400 |
| June | 53 | 30 | 37.4 | 2,230 |
| July | 33 | 23 | 26.7 | 1,640 |
| August | 72 | 20 | 25.6 | 1,570 |
| September | 127 | 23 | 29.5 | 1,760 |
| The year | 417 | 20 | 46.6 | 33,800 |

## VIRGIN RIVER BASIN

### VIRGIN RIVER AT VIRGIN, UTAH

LOCATION.—Chain gage in NW. ¼ sec. 27 or NE. ¼ sec. 28, T. 41 S., R. 12 W., three-quarters of a mile west of Virgin.
DRAINAGE AREA.—1,010 square miles.
RECORDS AVAILABLE.—April, 1909, to September, 1927; fragmentary.
EXTREMES.—1909–1927: Maximum discharge (estimated), 12,000 second-feet October 27, 1912 (gage height, 11.6 feet); minimum, 24 second-feet July 1, 2, 4, and 5, 1909.
REMARKS.—Records poor. Mean discharge estimated November, December, February, and March. Diversions for irrigation above station.

*Daily and monthly discharge, in second-feet, 1926–27.*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 102 | | | | | | 433 | 184 | 73 | 95 | 109 |
| 2 | 109 | | 123 | | 165 | | 330 | 406 | 165 | 68 | 184 | 102 |
| 3 | 116 | | | | | 293 | | 572 | 165 | 73 | 95 | 130 |
| 4 | | 84 | 130 | 148 | 174 | | | 601 | 174 | 95 | 95 | 123 |
| 5 | | | | | | 247 | 446 | 419 | 123 | 73 | 84 | 116 |
| 6 | 102 | 79 | | 156 | | | 515 | 616 | 109 | 55 | 293 | 205 |
| 7 | | | 380 | | | | | 380 | 102 | 73 | 165 | 148 |
| 8 | | 84 | 123 | 148 | 165 | 225 | | 558 | 95 | 73 | 259 | 165 |
| 9 | 90 | | | | | | 473 | 406 | 109 | 156 | 116 | 130 |
| 10 | | 90 | | 130 | 156 | 174 | | 529 | 84 | 148 | 109 | 123 |
| 11 | 84 | | 148 | | | | 342 | 368 | 116 | 116 | 109 | 139 |
| 12 | | | | | 215 | 165 | | 342 | 165 | 84 | 174 | 1,000 |
| 13 | | 669 | | 156 | | | | 460 | 215 | 90 | 102 | 3,500 |
| 14 | | | 148 | | 236 | | 281 | 419 | 174 | 68 | 60 | 406 |
| 15 | 95 | 123 | | 165 | 342 | 225 | | 406 | 236 | 79 | 95 | 368 |
| 16 | 73 | | | | | | 305 | 473 | 130 | 73 | 102 | 400 |
| 17 | | | 156 | | 754 | 194 | | 460 | 109 | 73 | 123 | 270 |
| 18 | 95 | 116 | 156 | | | | 259 | 355 | 102 | 79 | 90 | 259 |
| 19 | | | 156 | 156 | 236 | 184 | 270 | 368 | 90 | 79 | 95 | 184 |
| 20 | | 130 | | | | | | 342 | 84 | 79 | 79 | 174 |
| 21 | 90 | | | 259 | 205 | 184 | 305 | 259 | 79 | 84 | 84 | 225 |
| 22 | | 116 | | 194 | | | 393 | 247 | 79 | 90 | 79 | 355 |
| 23 | 79 | | | | | 194 | 558 | 259 | 79 | 68 | 90 | 473 |
| 24 | | | | 156 | 165 | | 387 | 225 | 73 | 90 | 84 | 305 |
| 25 | 90 | 318 | 148 | | | | 1,000 | 194 | 79 | 281 | 95 | 236 |
| 26 | | | 205 | | 236 | 330 | 646 | 165 | 79 | 305 | 393 | 194 |
| 27 | | 1,560 | | 225 | | | 515 | 184 | 79 | 393 | 616 | 225 |
| 28 | 84 | | | | 225 | | 529 | 215 | 84 | 95 | 1,200 | 236 |
| 29 | | 123 | 130 | 156 | | 355 | 677 | 194 | 79 | 84 | 616 | 247 |
| 30 | 84 | | | 165 | | | 419 | 194 | 68 | 73 | 205 | 236 |
| 31 | 84 | | 165 | | | 342 | | 184 | | 68 | 139 | |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | | | 92.2 | 5,670 |
| November | | | 200 | 11,900 |
| December | | | 155 | 9,530 |
| January | | | 165 | 10,100 |
| February | | | 240 | 13,300 |
| March | | | 240 | 14,800 |
| April | 1,000 | 259 | 421 | 25,100 |
| May | 616 | 165 | 362 | 22,300 |
| June | 236 | 68 | 117 | 6,960 |
| July | 393 | 55 | 108 | 6,640 |
| August | 1,200 | 60 | 198 | 12,200 |
| September | 3,500 | 102 | 359 | 21,400 |
| The year | 3,500 | 55 | 220 | 160,000 |

### MUKUNTUWEAP RIVER NEAR SPRINGDALE, UTAH

LOCATION.—Staff gage near center of sec. 15, T. 41 S., R. 10 W., half a mile inside south entrance to Zion National Park and 3 miles northeast of Springdale.

RECORDS AVAILABLE.—June to November, 1923; April, 1925, to September, 1927.

REMARKS.—Records fair. Daily discharge April 27 and July 9 and mean discharge for November, December, February, March, May, and September estimated. About 4 second-feet diverted above station.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 52 | | | | | | | | 109 | 62 | 67 | |
| 2 | 52 | 49 | | | | | | 421 | 108 | 60 | 51 | |
| 3 | 52 | | | 74 | | | | | 108 | 60 | 50 | |
| 4 | | 48 | 186 | | | | 174 | | 108 | 58 | 48 | 46 |
| 5 | 51 | | | | 67 | | | | 106 | 57 | 47 | 44 |
| 6 | | | 211 | | | | | | 101 | 56 | 92 | 43 |
| 7 | 51 | | | | | | | 384 | 98 | 55 | 100 | 42 |
| 8 | | | | 67 | 63 | | 224 | | 93 | 56 | 63 | 42 |
| 9 | | 50 | | | | | | 284 | 88 | 200 | 55 | 41 |
| 10 | | | 163 | 65 | | | | | 92 | 70 | 52 | 41 |
| 11 | 52 | | | | | | 224 | | 93 | 63 | 191 | |
| 12 | | 211 | | | 70 | | | | 106 | 61 | 57 | |
| 13 | | | 136 | | | | | 255 | 103 | 57 | 49 | |
| 14 | | | | | 142 | | | | 120 | 51 | 48 | |
| 15 | | 68 | | 62 | | | | | 114 | 49 | 46 | |
| 16 | | 68 | | 62 | 650 | | 198 | 214 | 103 | 46 | 43 | |
| 17 | | 66 | 114 | | | | | | 90 | 46 | 41 | |
| 18 | | 67 | | | | | 211 | | 87 | 46 | 40 | |
| 19 | 50 | 63 | | | 497 | 123 | | | 80 | 47 | 42 | |
| 20 | | 62 | | | | | | | 76 | 48 | 42 | |
| 21 | | | 90 | | | 111 | 198 | 177 | 72 | 47 | 42 | |
| 22 | | 61 | | 62 | 98 | | 272 | | 70 | 47 | 41 | |
| 23 | | 60 | | | | | | 165 | 66 | 48 | 41 | |
| 24 | | 60 | | 62 | | | | | 63 | 50 | 41 | |
| 25 | 52 | 216 | 62 | | | 142 | | | 61 | 460 | 41 | 98 |
| 26 | | 152 | | | 90 | | 510 | | 66 | 57 | 49 | 92 |
| 27 | | 302 | 67 | | | | 700 | 144 | 72 | 70 | 52 | 88 |
| 28 | 49 | | | | 82 | 114 | 680 | | 70 | 63 | 155 | 88 |
| 29 | | | | 62 | | | 501 | 121 | 66 | 61 | 70 | 87 |
| 30 | | 68 | | | | 186 | 543 | | 62 | 58 | 60 | 86 |
| 31 | | | 72 | 62 | | | | | | 55 | 50 | |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | | | 50.9 | 3,130 |
| November | | | 85 | 5,060 |
| December | | | 110 | 6,760 |
| January | | | 64.7 | 3,980 |
| February | | | 175 | 9,720 |
| March | | | 130 | 7,990 |
| April | 700 | | 280 | 16,700 |
| May | | | 245 | 15,000 |
| June | 120 | 61 | 88.4 | 5,260 |
| July | 460 | 46 | 73.0 | 4,490 |
| August | 191 | 40 | 60.2 | 3,700 |
| September | | | 115 | 6,840 |
| The year | | | 125 | 88,600 |

### SANTA CLARA CREEK NEAR CENTRAL, UTAH

LOCATION.—Staff gage in sec. 11, T. 39 S., R. 16 W., 1 mile southeast of Central on road to Pine Valley and 40 feet above Hunts Spring.
DRAINAGE AREA.—84 square miles.
RECORDS AVAILABLE.—April, 1909, to September, 1927.
EXTREMES.—Maximum discharge during year, 65 second-feet February 26 (gage height, 1.78 feet); minimum, 6 second-feet August 22 (gage height, 1.02 feet).

1909–1927: Maximum discharge, 1, 450 second-feet October 6, 1916 (gage height, 5.00 feet); minimum, 4 second-feet January 8, 1920, and January 6–11 and 19, 1926.

REMARKS.—Records fair. Diversions for irrigation above station.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 8 | 10 | 11 | 8 | e 9 | 20 | e 13 | 21 | e 20 | 11 | 8 | e 8 |
| 2 | e 8 | e 10 | e 11 | e 8 | e 9 | 14 | 13 | 14 | 21 | 11 | 7 | 8 |
| 3 | e 8 | 9 | 11 | 9 | 9 | 17 | e 18 | 27 | e 19 | 11 | e 7 | 8 |
| 4 | 8 | e 9 | e 11 | 9 | e 9 | 27 | 24 | 29 | 17 | 11 | 7 | 7 |
| 5 | e 8 | 9 | e 10 | 11 | 9 | e 24 | 23 | 32 | 15 | e 11 | e 7 | e 7 |
| 6 | 8 | e 9 | 10 | 9 | e 9 | 20 | e 23 | 34 | 13 | 11 | 7 | 7 |
| 7 | 8 | e 9 | e 10 | e 9 | 9 | 13 | 24 | 32 | 15 | 11 | e 7 | 7 |
| 8 | e 8 | 9 | 11 | 9 | e 9 | e 13 | e 25 | 24 | 15 | e 11 | 7 | e 7 |
| 9 | 8 | e 9 | e 11 | e 9 | 9 | 12 | 26 | 21 | 17 | 11 | e 7 | 7 |
| 10 | e 8 | 10 | 10 | 9 | 9 | 12 | 21 | 17 | 17 | e 11 | 7 | 7 |
| 11 | 9 | e 10 | e 10 | e 9 | 8 | 11 | e 19 | 14 | e 17 | 11 | 7 | 7 |
| 12 | 9 | 10 | 10 | 9 | e 9 | 11 | 17 | 11 | 18 | 11 | e 7 | 7 |
| 13 | 9 | 9 | 9 | e 9 | e 9 | e 11 | e 17 | 18 | 23 | e 11 | 7 | 10 |
| 14 | 10 | e 9 | 9 | e 9 | 10 | 12 | 17 | e 22 | 17 | 11 | 6 | 8 |
| 15 | 10 | 9 | e 9 | 9 | e 10 | 14 | 16 | 25 | 24 | e 11 | 6 | e 8 |
| 16 | 10 | 9 | 9 | e 9 | 28 | 11 | 16 | 29 | 18 | 11 | 6 | 7 |
| 17 | e 10 | e 9 | e 9 | 9 | 29 | e 11 | 15 | 32 | e 17 | 10 | 6 | 7 |
| 18 | 10 | 10 | 9 | e 9 | 23 | 11 | 14 | e 33 | 16 | e 8 | e 6 | 7 |
| 19 | e 10 | 11 | e 9 | e 9 | 19 | e 11 | e 14 | 34 | e 16 | 7 | 7 | e 7 |
| 20 | 9 | e 11 | 8 | 9 | 17 | 10 | 14 | 32 | 16 | 7 | 6 | 7 |
| 21 | 9 | e 11 | 8 | e 9 | 16 | e 11 | 15 | 26 | 15 | e 7 | e 6 | e 7 |
| 22 | e 10 | 11 | 8 | 9 | 28 | 12 | e 16 | e 21 | 14 | 7 | 6 | 7 |
| 23 | 11 | e 11 | e 8 | e 9 | 41 | 13 | 18 | 16 | 14 | 8 | e 6 | 7 |
| 24 | e 12 | e 11 | e 9 | e 9 | 41 | 17 | 24 | 15 | e 14 | e 8 | 6 | e 7 |
| 25 | 12 | 11 | 9 | 9 | 29 | 18 | 32 | 13 | 13 | 9 | e 6 | e 7 |
| 26 | 12 | e 11 | e 9 | 9 | 65 | e 22 | e 32 | 21 | e 12 | 8 | 6 | 7 |
| 27 | e 11 | 11 | 9 | e 9 | 45 | 26 | e 32 | e 21 | 11 | e 8 | 6 | 7 |
| 28 | 11 | e 11 | e 9 | 9 | e 30 | e 20 | 32 | 21 | 11 | 8 | 7 | e 7 |
| 29 | e 10 | 11 | 9 | e 9 | ------ | 15 | 21 | 20 | e 11 | e 8 | 7 | e 7 |
| 30 | 10 | e 11 | e 9 | e 9 | ------ | e 14 | 15 | 20 | 11 | 8 | 7 | 7 |
| 31 | e 10 | ------ | 9 | 9 | ------ | 13 | ------ | 20 | ------ | e 8 | 8 | ------ |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 12 | 8 | 9.5 | 584 |
| November | 11 | 9 | 10.0 | 595 |
| December | 11 | 8 | 9.5 | 584 |
| January | 11 | 8 | 9.0 | 553 |
| February | 65 | 8 | 19.5 | 1,080 |
| March | 27 | 10 | 15.0 | 922 |
| April | 32 | 13 | 20.2 | 1,200 |
| May | 34 | 11 | 23.1 | 1,420 |
| June | 24 | 11 | 15.9 | 946 |
| July | 11 | 7 | 9.5 | 584 |
| August | 8 | 6 | 6.6 | 406 |
| September | 10 | 7 | 7.3 | 434 |
| The year | 65 | 6 | 12.9 | 9,310 |

e Estimated.

## GILA RIVER BASIN

### GILA RIVER AT VIRDEN BRIDGE, NEAR DUNCAN, ARIZ.

LOCATION.—Water-stage recorder in SE. ¼ NE. ¼ sec. 13, T. 19 S., R. 21 W., at Virden Bridge, N. Mex., 12 miles east of Duncan, Ariz.

DRAINAGE AREA.—3,280 square miles.

RECORDS AVAILABLE.—October, 1926, to September, 1927, at present site; January, 1923, to September, 1926, at a point 2 miles upstream, published as "Gila River near Duncan, Ariz." May, 1914, to September, 1915, at station 4 miles upstream and one-fourth mile above intake of Sunset Canal

EXTREMES—Maximum discharge during year, 1,800 second-feet July 4 (gage height, 5.9 feet); no flow June 19 to July 3.

REMARKS—Records good. Discharge estimated June 25 to July 9. Diversions for irrigation above station. Station is above all diversions for Duncan Valley except Sunset Canal.

*Daily and monthly discharge, in second-feet; 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | 26 | 0 | 195 | 26 |
| 2 | | 207 | | | | | | | | 0 | 132 | 33 |
| 3 | | | | | | 476 | | | | 0 | 115 | 24 |
| 4 | | | | | | | | | | | 128 | 18 |
| 5 | | | | | | | | | | | 172 | 13 |
| 6 | | | | | | | | | | 280 | 141 | 22 |
| 7 | | | | | 112 | | | | | | 111 | 13 |
| 8 | | | | | | | | | | | 93 | 55 |
| 9 | | | | | | | | | | | 70 | 60 |
| 10 | | | | | | | | 125 | | 115 | 164 | 66 |
| 11 | | | | | | | | | | 126 | 111 | 54 |
| 12 | | | | | | | | | | 115 | 71 | 233 |
| 13 | 98 | | | | | | | | | 191 | 56 | 581 |
| 14 | | | | 217 | | | | | | 133 | 38 | 678 |
| 15 | | | | | | | | | 1 | 73 | 32 | 573 |
| 16 | | | 250 | | | | | | 2 | 58 | 123 | 466 |
| 17 | | | | | | | | | 1 | 47 | 141 | 359 |
| 18 | | | | | | | | | 1 | 38 | 70 | 365 |
| 19 | | | | | | | | | 0 | 28 | 585 | 687 |
| 20 | | | | | | | 164 | | 0 | 16 | 346 | 765 |
| 21 | | | | | | | | | 0 | 5 | 304 | 642 |
| 22 | | | | | | | | | 0 | 2 | 339 | 499 |
| 23 | | | | | | | | | 0 | 1 | 192 | 393 |
| 24 | | | | | | | | | 0 | 3 | 166 | 278 |
| 25 | | | | | | | | | 0 | 32 | 159 | 264 |
| 26 | | 66 | | | | | | | 0 | 59 | 109 | 207 |
| 27 | | | | | | | | | 0 | 74 | 73 | 162 |
| 28 | | | | | | 196 | | | 0 | 191 | 53 | 128 |
| 29 | | | | | | | | | 0 | 359 | 43 | 113 |
| 30 | | | | | | | | | 0 | 482 | 35 | 101 |
| 31 | | | | | | | | | | 297 | 28 | |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| June 15–30 | 2 | 0 | 0.3 | 10 |
| July | | 0 | 133 | 8,180 |
| August | 585 | 28 | 142 | 8,730 |
| September | 765 | 13 | 263 | 15,600 |
| The period | | | | 32,500 |

### GILA RIVER BELOW DUNCAN, ARIZ.

LOCATION.—In NE. ¼ sec. 14, T. 8 S., R. 31 E., half a mile upstream from heading of Colmonero Canal and 2½ miles northwest of Duncan.
RECORDS AVAILABLE.—September, 1926, to September, 1927; discharge measurements only.
REMARKS.—Below all diversions in Duncan Valley except Colmonero Canal.

*Discharge measurements of Gila River below Duncan, Ariz., 1926–27*

| | Sec.-ft. | | Sec.-ft. | | Sec.-ft. |
|---|---|---|---|---|---|
| Sept. 23 | 19.4 | Feb. 7 | 124 | June 16 | 16.5 |
| Oct. 12 | 89 | Mar. 29 | 155 | July 22 | 10.7 |
| Nov. 3 | 200 | Apr. 19 | 165 | Aug. 9 | 60 |
| Nov. 27 | 73 | May 9 | 132 | Sept. 1 | 14.8 |
| Dec. 17 | 269 | May 31 | 42.1 | Sept. 29 | 137 |
| Jan. 13 | 202 | | | | |

### GILA RIVER AT YORK, ARIZ.

LOCATION.—In SE. ¼ sec. 19, T. 6 S., R. 31 E., at York, below all diversions from Gila River above San Francisco River.
DRAINAGE AREA.—3,920 square miles.
RECORDS AVAILABLE.—May, 1923, to September, 1927; discharge measurements only.
REMARKS.—Diversion for irrigation above station.

*Discharge measurements of Gila River at York, Ariz., 1926–27*

| | Sec.-ft. | | Sec.-ft. | | Sec.-ft. |
|---|---|---|---|---|---|
| Oct. 12 | 87 | Mar. 4 | 444 | June 17 | 10.8 |
| Nov. 3 | 222 | Mar. 29 | 113 | July 22 | 13.8 |
| Nov. 26 | 55 | Apr. 19 | 159 | Aug. 9 | 66 |
| Dec. 17 | 242 | May 9 | 73 | Sept. 1 | 16.6 |
| Jan. 13 | 184 | May 31 | 12.5 | Sept. 30 | [a]112 |
| Feb. 8 | 99 | | | | |

[a] Made 300 feet above York Canal intake.

### GILA RIVER NEAR SOLOMONSVILLE, ARIZ.

LOCATION.—Water-stage recorder in NE. ¼ sec. 31, T. 6 S., R. 28 E., 10 miles east of Solomonsville and 11 miles below mouth of San Francisco River.
DRAINAGE AREA.—7,910 square miles.
RECORDS AVAILABLE.—April, 1914, to September, 1927.
EXTREMES.—Maximum discharge during year, 10,700 second-feet September 13 (gage height, 6.08 feet); minimum, 43 second-feet June 26 (gage height, 0.99 foot).

1914–1927: Maximum discharge, about 100,000 second-feet January 19, 1916 (gage height, 14.0 feet); minimum, 26 second-feet July 4, 1923.

REMARKS.—Records good. Diversions for irrigation above station. Above all diversions for Safford Valley except Brown Canal. Brown Canal waterway returns water to river below station. Discharge interpolated October 11–24 and July 15–21.

*Daily and monthly discharge, in second-feet, of Gila River near Solomonsville, Ariz., 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 233 | 549 | 172 | 190 | 228 | 1,140 | 412 | 420 | 82 | 64 | 367 | 125 |
| 2 | 403 | 540 | 164 | 200 | 233 | 1,020 | 469 | 390 | 78 | 57 | 314 | 125 |
| 3 | 328 | 420 | 164 | 204 | 238 | 1,090 | 503 | 375 | 74 | 54 | 289 | 98 |
| 4 | 347 | 360 | 172 | 214 | 255 | 1,040 | 512 | 340 | 73 | 56 | 431 | 93 |
| 5 | 308 | 314 | 204 | 224 | 249 | 958 | 520 | 308 | 71 | 259 | 555 | 87 |
| 6 | 238 | 284 | 347 | 233 | 233 | 847 | 486 | 289 | 71 | 474 | 550 | 91 |
| 7 | 195 | 272 | 302 | 238 | 233 | 769 | 444 | 278 | 67 | 417 | 402 | 87 |
| 8 | 252 | 266 | 382 | 255 | 238 | 653 | 428 | 284 | 65 | 375 | 566 | 133 |
| 9 | 249 | 249 | 570 | 238 | 238 | 570 | 420 | 295 | 60 | 368 | 401 | 184 |
| 10 | 244 | 244 | 590 | 302 | 233 | 600 | 420 | 295 | 58 | 244 | 618 | 270 |
| 11 | 237 | 224 | 503 | 321 | 219 | 834 | 452 | 284 | 65 | 183 | 398 | 254 |
| 12 | 231 | 219 | 444 | 321 | 228 | 697 | 478 | 255 | 100 | 312 | 238 | 2,160 |
| 13 | 224 | 219 | 405 | 314 | 255 | 610 | 469 | 244 | 112 | 735 | 168 | 5,320 |
| 14 | 218 | 219 | 452 | 321 | 295 | 620 | 420 | 224 | 98 | 255 | 125 | 1,840 |
| 15 | 211 | 214 | 560 | 295 | 308 | 730 | 390 | 195 | 85 | 224 | 110 | 1,370 |
| 16 | 204 | 204 | 469 | 302 | 665 | 902 | 347 | 190 | 76 | 200 | 207 | 916 |
| 17 | 198 | 200 | 375 | 302 | 1,870 | 1,030 | 314 | 179 | 71 | 176 | 906 | 1,070 |
| 18 | 191 | 195 | 302 | 295 | 2,840 | 972 | 314 | 175 | 65 | 152 | 804 | 1,040 |
| 19 | 185 | 200 | 284 | 284 | 2,050 | 874 | 405 | 164 | 60 | 129 | 849 | 1,580 |
| 20 | 178 | 195 | 289 | 278 | 1,380 | 782 | 375 | 160 | 57 | 105 | 1,230 | 1,610 |
| 21 | 171 | 190 | 340 | 261 | 1,150 | 697 | 412 | 153 | 54 | 81 | 1,580 | 1,090 |
| 22 | 165 | 183 | 340 | 249 | 1,080 | 631 | 428 | 145 | 52 | 57 | 660 | 930 |
| 23 | 158 | 175 | 354 | 238 | 1,040 | 580 | 444 | 131 | 51 | 54 | 470 | 675 |
| 24 | 152 | 168 | 368 | 224 | 1,030 | 520 | 428 | 128 | 48 | 67 | 940 | 512 |
| 25 | 145 | 164 | 340 | 238 | 1,120 | 469 | 444 | 122 | 46 | 85 | 330 | 428 |
| 26 | 139 | 164 | 302 | 244 | 1,140 | 460 | 460 | 115 | 44 | 150 | 295 | 412 |
| 27 | 133 | 157 | 255 | 219 | 1,180 | 428 | 452 | 105 | 56 | 305 | 322 | 334 |
| 28 | 131 | 164 | 249 | 219 | 1,180 | 428 | 452 | 100 | 57 | 570 | 343 | 278 |
| 29 | 128 | 164 | 228 | 219 | ------ | 412 | 435 | 93 | 58 | 417 | 183 | 249 |
| 30 | 189 | 172 | 214 | 214 | ------ | 390 | 452 | 91 | 71 | 1,100 | 153 | 224 |
| 31 | 328 | ------ | 190 | 219 | ------ | 390 | ------ | 89 | ------ | 614 | 131 | ------ |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 403 | 128 | 217 | 13,300 |
| November | 549 | 157 | 243 | 14,500 |
| December | 590 | 164 | 333 | 20,500 |
| January | 321 | 190 | 254 | 15,600 |
| February | 2,840 | 219 | 765 | 42,500 |
| March | 1,140 | 390 | 714 | 43,900 |
| April | 520 | 314 | 433 | 25,800 |
| May | 420 | 89 | 213 | 13,100 |
| June | 112 | 44 | 67.5 | 4,020 |
| July | 1,100 | 54 | 269 | 16,500 |
| August | 1,580 | 110 | 482 | 29,600 |
| September | 5,320 | 87 | 786 | 46,800 |
| The year | 5,320 | 44 | 395 | 286,000 |

### GILA RIVER NEAR ASHURST, ARIZ.

LOCATION.—In sec. 30, T. 5 S., R. 24 E., at Eden crossing ford, 1½ miles southeast of Ashurst.

DRAINAGE AREA.—10,900 square miles.

RECORDS AVAILABLE.—December, 1920, to September, 1927; discharge measurements only.

REMARKS.—Below all diversions in Safford Valley.

*Discharge measurements of Gila River near Ashurst, Ariz., 1926–27*

| | Sec.-ft. | | Sec.-ft. | | Sec.-ft. |
|---|---|---|---|---|---|
| Oct. 14 | 76 | Feb. 4 | 98 | June 9 | 6.1 |
| Oct. 29 | 9.7 | Mar. 23 | 238 | June 29 | 4.9 |
| Nov. 20 | 84 | Apr. 14 | 35.1 | July 26 | 44.6 |
| Dec. 11 | 414 | May 4 | 22.0 | Aug. 24 | 49.5 |
| Jan. 11 | 178 | May 23 | 10.9 | Sept. 27 | 270 |

### GILA RIVER AT COOLIDGE DAM, ARIZ.[1]

LOCATION.—Water-stage recorder in SW. ¼ sec. 17, T. 3. S., R. 18 E., unsurveyed, 600 feet below Coolidge Dam and 8½ miles below San Carlos River. Zero of gage is 2,309.5 feet above mean sea level.

DRAINAGE AREA.—12,900 square miles.

RECORDS AVAILABLE.—April, 1914, to September, 1927. July, 1899, to November, 1905, at point 8 miles uspstream. August, 1910, to February, 1911, at point 9 miles upstream.

EXTREMES.—Maximum discharge during year, 9,100 second-feet February 17 (gage height, 11.9 feet); minimum, 0.4 second-foot June 24 and 25.

1914–1927: Maximum discharge (estimated), 130,000 second-feet January 20, 1916 (gage height, 25.5 feet); no flow June 28 to July 1, 1919, and July 8–10, August 31, and September 3–10, 1926.

REMARKS.—Records good. Discharge estimated or partly estimated February 2–11 and September 29, 30. Diversions for irrigation above station. Flow not yet regulated at Coolidge Dam.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 185 | 311 | 118 | 287 | 150 | 952 | 112 | 118 | 7 | 3 | 223 | 112 |
| 2 | 162 | 400 | 126 | 275 | 150 | 890 | 103 | 113 | 6 | 4 | 112 | 75 |
| 3 | 164 | 389 | 139 | 293 | 150 | 815 | 98 | 102 | 5 | 4 | 79 | 53 |
| 4 | 276 | 332 | 158 | 293 | 155 | 746 | 92 | 100 | 5 | 3 | 71 | 95 |
| 5 | 217 | 319 | 191 | 278 | 155 | 655 | 91 | 89 | 4 | 4 | 205 | 57 |
| 6 | 195 | 306 | 207 | 296 | 155 | 595 | 97 | 79 | 4 | 61 | 73 | 180 |
| 7 | 161 | 290 | 241 | 293 | 160 | 557 | 87 | 68 | 3 | 90 | 69 | 109 |
| 8 | 156 | 283 | 319 | 281 | 160 | 503 | 82 | 62 | 3 | 478 | 79 | 36 |
| 9 | 151 | 261 | 298 | 278 | 160 | 417 | 67 | 68 | 2 | 306 | 77 | 26 |
| 10 | 134 | 239 | 383 | 287 | 160 | 907 | 64 | 61 | 2 | 95 | 88 | 52 |
| 11 | 139 | 234 | 454 | 270 | 160 | 1,520 | 60 | 65 | 30 | 83 | 81 | 127 |
| 12 | 144 | 222 | 442 | 278 | 172 | 1,480 | 66 | 63 | 101 | 65 | 376 | 2,300 |
| 13 | 124 | 217 | 763 | 284 | 191 | 1,030 | 76 | 56 | 52 | 40 | 112 | 3,010 |
| 14 | 109 | 201 | 816 | 265 | 896 | 884 | 88 | 48 | 27 | 172 | 152 | 2,450 |
| 15 | 105 | 176 | 398 | 250 | 5,520 | 724 | 102 | 43 | 18 | 112 | 102 | 1,260 |
| 16 | 99 | 170 | 409 | 223 | 3,290 | 580 | 98 | 33 | 12 | 44 | 112 | 1,010 |
| 17 | 90 | 154 | 374 | 227 | 4,910 | 562 | 97 | 30 | 8 | 14 | 73 | 930 |
| 18 | 76 | 146 | 335 | 202 | 3,270 | 590 | 117 | 28 | 6 | 9 | 271 | 1,030 |
| 19 | 69 | 147 | 314 | 180 | 3,360 | 539 | 127 | 22 | 4 | 8 | 432 | 1,120 |
| 20 | 68 | 151 | 293 | 167 | 2,290 | 485 | 140 | 18 | 3 | 5 | 720 | 1,330 |
| 21 | 57 | 159 | 305 | 162 | 1,600 | 437 | 140 | 17 | 2 | 2 | 570 | 1,330 |
| 22 | 54 | 154 | 320 | 147 | 1,430 | 388 | 147 | 16 | 1 | 1 | 376 | 990 |
| 23 | 55 | 149 | 349 | 132 | 1,250 | 326 | 145 | 16 | 1 | 8 | 570 | 850 |
| 24 | 50 | 140 | 388 | 124 | 1,090 | 270 | 158 | 15 | 1 | 2 | 340 | 714 |
| 25 | 51 | 135 | 346 | 132 | 1,030 | 243 | 178 | 14 | 1 | 4 | 260 | 558 |
| 26 | 50 | 132 | 332 | 134 | 1,020 | 196 | 196 | 12 | 1 | 6 | 226 | 460 |
| 27 | 56 | 129 | 329 | 132 | 959 | 170 | 173 | 10 | 1 | 27 | 235 | 412 |
| 28 | 55 | 121 | 311 | 126 | 1,020 | 152 | 162 | 8 | 2 | 500 | 288 | 364 |
| 29 | 56 | 118 | 308 | 124 | ------- | 141 | 138 | 8 | 2 | 302 | 360 | 300 |
| 30 | 81 | 120 | 299 | 118 | ------- | 128 | 134 | 7 | 1 | 140 | 211 | 255 |
| 31 | 280 | ------- | 287 | 115 | ------- | 122 | ------- | 7 | ------- | 316 | 158 | ------ |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 280 | 50 | 118 | 7,260 |
| November | 400 | 118 | 210 | 12,500 |
| December | 816 | 118 | 334 | 20,500 |
| January | 296 | 115 | 215 | 13,200 |
| February | 5,520 | 150 | 1,250 | 69,400 |
| March | 1,520 | 122 | 581 | 35,700 |
| April | 196 | 60 | 114 | 6,780 |
| May | 118 | 7 | 45.0 | 2,770 |
| June | 101 | 1 | 10.5 | 625 |
| July | 500 | 1 | 93.8 | 5,770 |
| August | 720 | 69 | 229 | 14,100 |
| September | 3,010 | 26 | 720 | 42,800 |
| The year | 5,520 | 1 | 320 | 231,000 |

[1] Previously published as "Gila River near San Carlos, Ariz."

### GILA RIVER AT KELVIN, ARIZ.

LOCATION.—Water-stage recorder in sec. 12, T. 4 S., R. 13 E., at Kelvin, 15 miles downstream from mouth of San Pedro River.

DRAINAGE AREA.—18,100 square miles.

RECORDS AVAILABLE.—January, 1911, to September, 1927.

EXTREMES.—Maximum discharge during year, 8,350 second-feet February 18 (gage height, 6.09 feet); minimum, 5 second-feet July 5 (gage height, 2.18 feet).

1911–1927: Maximum discharge, about 132,000 second-feet January 20, 1916 (gage height, 19.5 feet); flow less than 1 second-foot during summers of several years.

REMARKS.—Records good. Diversions for irrigation above station.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1,220 | 315 | 201 | 311 | 154 | 1,350 | 183 | 144 | 16 | 7 | 392 | 232 |
| 2 | 824 | 325 | 201 | 297 | 207 | 1,090 | 160 | 123 | 17 | 6 | 264 | 177 |
| 3 | 470 | 476 | 195 | 311 | 251 | 1,060 | 149 | 112 | 15 | 6 | 304 | 133 |
| 4 | 521 | 408 | 225 | 360 | 304 | 1,020 | 144 | 95 | 15 | 6 | 213 | 99 |
| 5 | 512 | 384 | 290 | 360 | 304 | 938 | 133 | 95 | 15 | 33 | 756 | 123 |
| 6 | 424 | 376 | 353 | 339 | 270 | 873 | 123 | 87 | 12 | 170 | 244 | 173 |
| 7 | 368 | 368 | 384 | 325 | 284 | 812 | 138 | 83 | 10 | 708 | 91 | 408 |
| 8 | 384 | 346 | 503 | 318 | 264 | 764 | 144 | 78 | 10 | 893 | 463 | 571 |
| 9 | 360 | 332 | 416 | 346 | 270 | 696 | 133 | 78 | 9 | 1,250 | 446 | 408 |
| 10 | 1,660 | 339 | 376 | 332 | 232 | 1,440 | 128 | 70 | 9 | 600 | 260 | 384 |
| 11 | 641 | 284 | 424 | 353 | 219 | 3,030 | 123 | 67 | 20 | 408 | 200 | 424 |
| 12 | 416 | 277 | 449 | 368 | 264 | 1,380 | 128 | 60 | 133 | 213 | 360 | 3,350 |
| 13 | 332 | 258 | 824 | 332 | 800 | 873 | 117 | 62 | 112 | 112 | 368 | 3,960 |
| 14 | 325 | 264 | 1,090 | 339 | 1,400 | 977 | 112 | 60 | 78 | 70 | 332 | 3,930 |
| 15 | 304 | 251 | 467 | 311 | 4,590 | 1,000 | 123 | 52 | 65 | 144 | 677 | 1,350 |
| 16 | 284 | 225 | 353 | 304 | 4,600 | 912 | 133 | 49 | 60 | 123 | 366 | 951 |
| 17 | 264 | 219 | 332 | 304 | 4,770 | 740 | 144 | 47 | 47 | 78 | 280 | 860 |
| 18 | 238 | 183 | 311 | 325 | 4,600 | 740 | 201 | 44 | 37 | 49 | 596 | 1,180 |
| 19 | 213 | 165 | 290 | 290 | 3,810 | 740 | 213 | 42 | 30 | 37 | 705 | 1,160 |
| 20 | 183 | 189 | 304 | 290 | 2,770 | 685 | 189 | 37 | 26 | 57 | 422 | 1,120 |
| 21 | 165 | 195 | 332 | 258 | 1,960 | 641 | 207 | 27 | 22 | 26 | 672 | 1,190 |
| 22 | 154 | 207 | 392 | 238 | 1,720 | 600 | 183 | 22 | 18 | 16 | 353 | 990 |
| 23 | 144 | 207 | 560 | 213 | 1,700 | 521 | 201 | 19 | 15 | 12 | 357 | 729 |
| 24 | 144 | 213 | 512 | 177 | 1,570 | 440 | 177 | 19 | 15 | 28 | 512 | 718 |
| 25 | 138 | 201 | 292 | 177 | 1,610 | 416 | 183 | 20 | 15 | 75 | 332 | 641 |
| 26 | 133 | 171 | 346 | 189 | 1,550 | 368 | 201 | 16 | 17 | 177 | 325 | 503 |
| 27 | 133 | 189 | 332 | 195 | 1,530 | 332 | 219 | 15 | 18 | 83 | 339 | 503 |
| 28 | 144 | 189 | 297 | 177 | 1,400 | 284 | 207 | 13 | 30 | 83 | 508 | 408 |
| 29 | 149 | 177 | 297 | 171 | ------ | 258 | 189 | 14 | 11 | 376 | 1,020 | 408 |
| 30 | 592 | 177 | 290 | 171 | ------ | 213 | 154 | 15 | 8 | 189 | 346 | 360 |
| 31 | 265 | ------ | 311 | 154 | ------ | 195 | ------ | 16 | ------ | 201 | 297 | ------ |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 1,660 | 133 | 394 | 24,200 |
| November | 476 | 165 | 264 | 15,700 |
| December | 1,090 | 195 | 389 | 23,900 |
| January | 368 | 154 | 279 | 17,200 |
| February | 4,770 | 154 | 1,550 | 86,100 |
| March | 3,030 | 195 | 819 | 50,400 |
| April | 219 | 112 | 161 | 9,580 |
| May | 144 | 13 | 54.2 | 3,330 |
| June | 133 | 8 | 30.2 | 1,800 |
| July | 1,250 | 6 | 201 | 12,400 |
| August | 1,020 | 91 | 413 | 25,400 |
| September | 3,960 | 99 | 915 | 54,400 |
| The year | 4,770 | 6 | 448 | 324,000 |

### GILA RIVER AT ASHURST-HAYDEN DAM, NEAR FLORENCE, ARIZ.

LOCATION.—Chain gage in sec. 8, T. 4 S., R. 11 E., at Ashurst-Hayden Dam, 10 miles northeast of Florence.
DRAINAGE AREA.—18,400 square miles.
RECORDS AVAILABLE.—July, 1923, to September, 1927.
EXTREMES.—Maximum stage during year, 2.4 feet September 12; no flow over dam several days.
1923–1927: Maximum stage, 8.0 feet September 28, 1926; no flow over dam several days each year.
REMARKS.—Diversions for irrigation above station. Gage-height record furnished by United States Indian Service.

*Daily height, in feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Feb. | Mar. | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.67 | 0.15 | ------ | ------ | 0.86 | ------ | ------ | 0.15 | ------ |
| 2 | .00 | .33 | ------ | ------ | .86 | ------ | ------ | ------ | ------ |
| 3 | ------ | .44 | ------ | ------ | .80 | ------ | ------ | ------ | ------ |
| 4 | ------ | .52 | ------ | ------ | .77 | ------ | ------ | ------ | ------ |
| 5 | ------ | .59 | ------ | ------ | .69 | ------ | ------ | 1.08 | ------ |
| 6 | ------ | .56 | [a]0.00 | ------ | .61 | ------ | [a]0.00 | [a].20 | ------ |
| 7 | .35 | .53 | ------ | ------ | .57 | ------ | ------ | ------ | 0.30 |
| 8 | .35 | .52 | [a].00 | ------ | .54 | ------ | .95 | [a].70 | .30 |
| 9 | .10 | .50 | .21 | ------ | .45 | ------ | 1.25 | .33 | .28 |
| 10 | .23 | .50 | .00 | ------ | .93 | ------ | .50 | ------ | [a].20 |
| 11 | .65 | .47 | .15 | ------ | 1.70 | ------ | .10 | ------ | [a].30 |
| 12 | .37 | .00 | .30 | [a]0.00 | 1.50 | [a]0.00 | ------ | ------ | 2.00 |
| 13 | .28 | .00 | .80 | .58 | 1.00 | ------ | ------ | [a].10 | 2.05 |
| 14 | .18 | .00 | .99 | 1.05 | .87 | ------ | ------ | ------ | 1.80 |
| 15 | ------ | .00 | .67 | 1.50 | .89 | ------ | ------ | [a]1.00 | 1.15 |
| 16 | [a].00 | [a].00 | .47 | 1.75 | .86 | ------ | ------ | [a].30 | .90 |
| 17 | ------ | ------ | .38 | 1.60 | .76 | ------ | ------ | [a].00 | .80 |
| 18 | ------ | ------ | .34 | 1.80 | .68 | ------ | ------ | .45 | .95 |
| 19 | ------ | ------ | .30 | 1.55 | .69 | ------ | ------ | .85 | 1.10 |
| 20 | ------ | ------ | .10 | 1.30 | .64 | ------ | ------ | .65 | .82 |
| 21 | ------ | ------ | .00 | .98 | .57 | ------ | ------ | .80 | .95 |
| 22 | ------ | ------ | .25 | .85 | .52 | ------ | ------ | .50 | .86 |
| 23 | ------ | ------ | .32 | .83 | .46 | ------ | ------ | .20 | .73 |
| 24 | ------ | ------ | .32 | .85 | .33 | ------ | ------ | .45 | .71 |
| 25 | ------ | ------ | .25 | .89 | .10 | ------ | ------ | .25 | .70 |
| 26 | ------ | ------ | .15 | .89 | .10 | ------ | ------ | .10 | .60 |
| 27 | ------ | ------ | .00 | .88 | [a].10 | ------ | ------ | .10 | .54 |
| 28 | ------ | ------ | .00 | .90 | ------ | ------ | ------ | [a].20 | .50 |
| 29 | ------ | ------ | [a].00 | ------ | ------ | ------ | .22 | 1.18 | .28 |
| 30 | [a].90 | ------ | ------ | ------ | ------ | ------ | ------ | .42 | .20 |
| 31 | .38 | ------ | ------ | ------ | ------ | ------ | [a].00 | .10 | ------ |

[a] Water over crest for part of day only.

NOTE.—Figures show height of water on crest of dam. Water below crest on days for which no gage height is shown.

### GILA RIVER AT GILLESPIE DAM, ARIZ.

LOCATION.—Water-stage recorder in SE. ¼ NE. ¼ sec. 28, T. 2 S., R. 5 W., at Gillespie Dam, 8 miles below mouth of Hassayampa River. Zero of gage is at crest of dam and is 753.8 feet above mean sea level.

DRAINAGE AREA.—48,100 square miles.

RECORDS AVAILABLE.—August, 1921, to September, 1927.

EXTREMES.—Maximum discharge during year, 67,300 second-feet February 18 (gage height, 5.45 feet); no flow several days during year.

1921–1927: Maximum discharge, 70,000 second-feet December 28, 1923 (gage height, 6.0 feet); no flow several days each year.

REMARKS.—Records good. During periods when water level is below crest of dam a small quantity is released through gate. Diversions for irrigation above station. Flow partly regulated by storage reservoirs.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 3,970 | 0 | 90 | 1,550 | 60 | 4,490 | 0 | 0 | 0 | 0 | 0 | 210 |
| 2 | 2,920 | 70 | 90 | 1,500 | 40 | 4,430 | 0 | 0 | 0 | 0 | 0 | 2 |
| 3 | 2,580 | 90 | 90 | 1,400 | 30 | 2,900 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | 1,740 | 110 | 130 | 1,080 | 30 | 2,290 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5 | 1,220 | 130 | 285 | 1,000 | 30 | 2,000 | 0 | 0 | 0 | 28 | 0 | 0 |
| 6 | 920 | 110 | 440 | 960 | 66 | 2,000 | 0 | 0 | 0 | 16 | 0 | 0 |
| 7 | 880 | 150 | 3,240 | 1,000 | 126 | 1,700 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 | 765 | 210 | 5,060 | 960 | 20 | 1,320 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9 | 660 | 190 | 1,650 | 840 | 3 | 1,000 | 0 | 0 | 0 | 0 | 0 | 4 |
| 10 | 560 | 150 | 1,240 | 840 | 4 | 840 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11 | 635 | 190 | 1,200 | 765 | 49 | 695 | 0 | 0 | 0 | 122 | 0 | 0 |
| 12 | 1,280 | 210 | 1,000 | 765 | 170 | 2,780 | 0 | 0 | 0 | 51 | 0 | 0 |
| 13 | 765 | 190 | 960 | 590 | 285 | 3,700 | 0 | 0 | 0 | 0 | 0 | 22,100 |
| 14 | 695 | 210 | 1,260 | 500 | 730 | 2,950 | 0 | 0 | 0 | 0 | 0 | 11,500 |
| 15 | 440 | 235 | 2,350 | 440 | 7,410 | 2,250 | 0 | 0 | 0 | 0 | 0 | 6,120 |
| 16 | 385 | 130 | 2,200 | 410 | 23,700 | 2,350 | 9 | 0 | 0 | 0 | 0 | 3,010 |
| 17 | 310 | 110 | 1,850 | 360 | 51,200 | 2,700 | 170 | 0 | 0 | 0 | 0 | 1,620 |
| 18 | 285 | 110 | 1,550 | 260 | 60,000 | 1,550 | 282 | 0 | 0 | 0 | 0 | 1,750 |
| 19 | 170 | 90 | 1,360 | 260 | 38,700 | 1,040 | 360 | 0 | 0 | 0 | 0 | 1,450 |
| 20 | 150 | 110 | 1,360 | 235 | 20,200 | 695 | 310 | 0 | 0 | 0 | 0 | 1,200 |
| 21 | 90 | 90 | 1,400 | 235 | 10,900 | 560 | 260 | 0 | 0 | 0 | 6 | 1,000 |
| 22 | 90 | 90 | 1,360 | 210 | 7,780 | 500 | 92 | 0 | 0 | 0 | 45 | 840 |
| 23 | 75 | 90 | 1,280 | 235 | 6,440 | 410 | 28 | 0 | 0 | 0 | 46 | 920 |
| 24 | 110 | 75 | 1,500 | 210 | 5,970 | 335 | 0 | 0 | 0 | 0 | 49 | 880 |
| 25 | 175 | 75 | 1,800 | 170 | 5,460 | 260 | 0 | 0 | 0 | 0 | 0 | 625 |
| 26 | 75 | 75 | 1,550 | 110 | 5,060 | 210 | 0 | 0 | 0 | 0 | 0 | 440 |
| 27 | 45 | 75 | 1,500 | 75 | 4,200 | 206 | 0 | 0 | 0 | 0 | 0 | 293 |
| 28 | 30 | 90 | 1,360 | 60 | 4,770 | 274 | 0 | 0 | 0 | 0 | 0 | 190 |
| 29 | 4 | 150 | 1,550 | 60 | ------ | 75 | 0 | 0 | 0 | 0 | 0 | 130 |
| 30 | 0 | 110 | 1,650 | 60 | ------ | 45 | 0 | 0 | 0 | 0 | 0 | 75 |
| 31 | 0 | ------ | 1,600 | 75 | ------ | 30 | ------ | 0 | ------ | 0 | 71 | ------ |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 3,970 | 0 | 710 | 43,700 |
| November | 235 | 0 | 124 | 7,380 |
| December | 5,060 | 90 | 1,420 | 87,300 |
| January | 1,550 | 60 | 555 | 34,100 |
| February | 60,000 | 3 | 9,050 | 503,000 |
| March | 4,490 | 30 | 1,500 | 92,200 |
| April | 360 | 0 | 50.4 | 3,000 |
| July | 122 | 0 | 7.0 | 430 |
| August | 71 | 0 | 7.0 | 430 |
| September | 22,100 | 0 | 1,810 | 108,000 |
| The year | 60,000 | 0 | 1,210 | 880,000 |

### SUNSET CANAL NEAR DUNCAN, ARIZ.

LOCATION.—Staff gage in NE. ¼ sec. 18, T. 19 S., R. 20 W., in New Mexico, 2 miles below intake and 14 miles east of Duncan, Ariz.

RECORDS AVAILABLE.—October, 1914, to September, 1915; July, 1922, to September, 1927.

REMARKS.—Records good. Discharge interpolated March 31, April 1 and 28. Intake on right side of Gila River in NW. ¼ sec. 21, T. 19 S., R. 20 W., New Mexico, on Gila River. Water used for irrigation near Virden. Diversions from canal above station.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 40 | 33 | 33 | 22 | 29 | 35 | 42 | 45 | 44 | 25 | 47 | 44 |
| 2 | 41 | 31 | 33 | 22 | 29 | 35 | 42 | 45 | 45 | 29 | 40 | 44 |
| 3 | 40 | 37 | 35 | 16 | 29 | 2 | 42 | 45 | 50 | 32 | 38 | 45 |
| 4 | 36 | 39 | 35 | 11 | 29 | 0 | 40 | 44 | 51 | 33 | 36 | 44 |
| 5 | 34 | 31 | 34 | 11 | 29 | 0 | 40 | 40 | 48 | 38 | 36 | 42 |
| 6 | 34 | 25 | 28 | 22 | 30 | 6 | 40 | 38 | 42 | 46 | 36 | 39 |
| 7 | 34 | 26 | 27 | 22 | 30 | 0 | 40 | 37 | 35 | 33 | 36 | 38 |
| 8 | 33 | 26 | 25 | 22 | 30 | 30 | 41 | 39 | 37 | 46 | 36 | 36 |
| 9 | 33 | 28 | 21 | 21 | 30 | 30 | 40 | 43 | 33 | 46 | 40 | 37 |
| 10 | 33 | 34 | 7 | 21 | 30 | 29 | 41 | 42 | 30 | 47 | 44 | 36 |
| 11 | 16 | 34 | 24 | 21 | 18 | 30 | 41 | 45 | 28 | 46 | 42 | 38 |
| 12 | 0 | 35 | 26 | 21 | 30 | 30 | 42 | 45 | 28 | 47 | 41 | 21 |
| 13 | 0 | 35 | 25 | 21 | 30 | 39 | 42 | 39 | 26 | 47 | 30 | 0 |
| 14 | 0 | 35 | 24 | 22 | 30 | 29 | 43 | 45 | 25 | 41 | 33 | 0 |
| 15 | 0 | 35 | 22 | 17 | 30 | 29 | 45 | 46 | 32 | 44 | 37 | 0 |
| 16 | 0 | 29 | 19 | 20 | 30 | 29 | 44 | 44 | 35 | 39 | 39 | 8 |
| 17 | 0 | 27 | 19 | 31 | 30 | 29 | 46 | 43 | 31 | 40 | 40 | 12 |
| 18 | 2 | 29 | 20 | 34 | 30 | 29 | 46 | 42 | 25 | 39 | 20 | 10 |
| 19 | 0 | 29 | 20 | 33 | 30 | 29 | 46 | 42 | 23 | 41 | 11 | 21 |
| 20 | 0 | 26 | 20 | 34 | 29 | 29 | 43 | 44 | 22 | 43 | 16 | 41 |
| 21 | 0 | 24 | 19 | 35 | 30 | 29 | 44 | 47 | 21 | 40 | 35 | 44 |
| 22 | 0 | 12 | 19 | 35 | 30 | 32 | 45 | 50 | 22 | 29 | 39 | 42 |
| 23 | 0 | 10 | 13 | 35 | 30 | 34 | 45 | 41 | 18 | 15 | 33 | 41 |
| 24 | 0 | 26 | 22 | 35 | 30 | 35 | 44 | 41 | 18 | 18 | 28 | 40 |
| 25 | 0 | 28 | 21 | 35 | 34 | 38 | 42 | 49 | 17 | 43 | 26 | 39 |
| 26 | 0 | 28 | 21 | 35 | 35 | 40 | 41 | 46 | 18 | 50 | 33 | 37 |
| 27 | 9 | 24 | 21 | 27 | 35 | 41 | 43 | 47 | 19 | 50 | 36 | 36 |
| 28 | 22 | 23 | 22 | 27 | 35 | 41 | 44 | 49 | 19 | 52 | 38 | 28 |
| 29 | 27 | 20 | 22 | 28 | ------ | 42 | 45 | 49 | 17 | 49 | 42 | 26 |
| 30 | 36 | 27 | 23 | 30 | ------ | 41 | 46 | 49 | 21 | 48 | 44 | 19 |
| 31 | 35 | ------ | 23 | 29 | ------ | 41 | ------ | 46 | ------ | 50 | 43 | ------ |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 41 | 0 | 16.3 | 1,000 |
| November | 39 | 10 | 28.2 | 1,680 |
| December | 36 | 7 | 23.4 | 1,440 |
| January | 35 | 11 | 25.6 | 1,570 |
| February | 35 | 18 | 30.0 | 1,670 |
| March | 42 | 0 | 28.5 | 1,750 |
| April | 46 | 40 | 42.8 | 2,550 |
| May | 50 | 37 | 44.1 | 2,710 |
| June | 51 | 17 | 29.3 | 1,740 |
| July | 52 | 15 | 40.2 | 2,470 |
| August | 47 | 11 | 35.3 | 2,170 |
| September | 45 | 0 | 30.3 | 1,800 |
| The year | 52 | 0 | 31.2 | 22,600 |

### COSPER-WINDHAM CANAL NEAR DUNCAN, ARIZ.

LOCATION.—Staff gage in NW. ¼ sec. 11, T. 19 S., R. 21 W., in New Mexico, three-quarters of a mile below intake and 9 miles east of Duncan, Ariz.

RECORDS AVAILABLE.—October, 1914, to September, 1915; July, 1922, to September, 1927 (discontinued).

REMARKS.—Records good. Discharge interpolated April 4–6 and July 17. Intake on right side of Gila River in SW. ¼ sec. 11, T. 19 S., R. 21 W., New Mexico. Water used for irrigation near Virden. Diversions from canal above station.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 14 | 0 | 12 | 5.2 | 17 | 13 | 24 | 0 | 7.6 | 0 | 0 | 3.6 |
| 2 | 17 | 0 | 12 | 5.2 | 17 | 11 | 23 | 12 | 7.0 | 0 | 0 | 4.3 |
| 3 | 17 | 0 | 12 | 5.1 | 16 | 10 | 18 | 26 | 2.4 | 0 | 7.4 | 4.7 |
| 4 | 17 | 0 | 11 | 4.8 | 18 | 9.1 | 19 | 26 | 2.4 | 4.0 | 6.1 | 11 |
| 5 | 16 | 0 | 11 | 4.8 | 18 | 4.2 | 20 | 27 | 4.2 | 12 | 7.1 | 4.9 |
| 6 | 16 | 0 | 11 | 5.1 | 20 | 0 | 20 | 28 | 3.0 | 14 | 6.2 | 5.1 |
| 7 | 16 | 0 | 12 | 5.5 | 18 | 0 | 21 | 28 | 3.8 | 8.2 | 4.7 | .1 |
| 8 | 16 | 0 | 11 | 5.2 | 9.6 | 0 | 18 | 28 | 2.1 | 14 | 2.4 | 17 |
| 9 | 14 | 0 | 11 | 4.8 | 0 | 0 | 20 | 29 | 1.8 | 12 | 4.0 | 19 |
| 10 | 11 | 0 | 9.9 | 6.2 | 0 | 0 | 7.7 | 26 | 1.8 | 12 | 8.1 | 13 |
| 11 | 11 | 0 | 9.5 | 9.3 | 0 | 0 | .9 | 22 | .8 | 13 | 10 | 12 |
| 12 | 11 | 0 | 9.0 | 9.3 | 0 | 0 | 0 | 23 | .9 | 11 | 6.6 | 0 |
| 13 | 10 | 0 | 4.4 | 9.5 | 0 | 0 | 0 | 21 | 0 | 11 | 4.3 | 0 |
| 14 | 10 | 0 | 0 | 9.5 | 3.2 | 3.0 | 1.6 | 23 | 0 | 19 | 3.7 | 0 |
| 15 | 10 | 7.2 | 3.6 | 9.5 | 9.0 | 14 | 3.1 | 26 | 0 | 17 | 3.6 | 0 |
| 16 | 10 | 15 | 8.1 | 9.5 | 8.8 | 19 | 7.6 | 22 | 2.0 | 17 | 16 | 0 |
| 17 | 10 | 15 | 8.6 | 9.1 | 20 | 18 | 13 | 23 | 3.5 | 14 | 17 | 0 |
| 18 | 10 | 15 | 9.0 | 9.0 | 14 | 20 | 18 | 22 | 4.4 | 11 | 5.6 | 0 |
| 19 | 10 | 14 | 9.5 | 8.2 | 2.3 | 19 | 20 | 24 | 1.0 | 9.1 | 0 | 0 |
| 20 | 7.9 | 14 | 9.3 | 8.4 | 2.5 | 18 | 17 | 23 | .4 | 5.8 | 0 | 0 |
| 21 | 5.9 | 15 | 7.2 | 12 | 1.2 | 18 | 15 | 23 | 0 | .9 | 0 | 0 |
| 22 | 5.8 | 14 | 5.8 | 18 | 6.5 | 18 | 16 | 22 | 0 | 0 | 0 | 0 |
| 23 | 5.8 | 13 | 5.9 | 17 | 16 | 18 | 18 | 21 | 0 | 0 | .3 | 0 |
| 24 | 5.6 | 13 | 6.2 | 12 | 14 | 24 | 18 | 19 | 0 | 0 | 6.8 | 0 |
| 25 | 8.8 | 13 | 6.1 | 9.5 | 12 | 22 | 20 | 23 | 0 | 20 | 6.8 | 0 |
| 26 | 13 | 13 | 5.6 | 11 | 12 | 25 | 20 | 23 | 2.6 | 11 | 4.8 | 0 |
| 27 | 12 | 13 | 5.5 | 11 | 12 | 27 | 23 | 18 | .9 | 12 | .8 | 0 |
| 28 | 11 | 13 | 5.8 | 12 | 11 | 26 | 24 | 20 | .4 | 16 | 1.7 | 3.5 |
| 29 | 11 | 12 | 5.1 | 13 | ------- | 1.0 | 13 | 17 | 4.6 | 8.1 | 5.5 | 4.4 |
| 30 | 12 | 12 | 5.1 | 15 | ------- | 14 | 0 | 17 | .4 | 0 | 9.3 | 1.6 |
| 31 | 6.4 | ------- | 5.5 | 15 | ------- | 22 | ------- | 9.7 | ------- | 0 | 4.1 | ------- |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 17 | 5.6 | 11.3 | 695 |
| November | 15 | 0 | 7.04 | 419 |
| December | 12 | 0 | 7.99 | 491 |
| January | 18 | 4.8 | 9.31 | 572 |
| February | 20 | 0 | 9.93 | 551 |
| March | 27 | 0 | 12.0 | 738 |
| April | 24 | 0 | 14.6 | 869 |
| May | 29 | 0 | 21.7 | 1,330 |
| June | 7.6 | 0 | 1.93 | 115 |
| July | 20 | 0 | 8.78 | 540 |
| August | 17 | 0 | 4.93 | 303 |
| September | 19 | 0 | 3.47 | 206 |
| The year | 29 | 0 | 9.45 | 6,830 |

### MODDLE CANAL NEAR DUNCAN, ARIZ.

LOCATION.—Water-stage recorder in NW. ¼ sec. 10, T. 19 S., R. 21 W., New Mexico, half a mile below intake and 9 miles east of Duncan, Ariz.

RECORDS AVAILABLE.—October, 1914, to September, 1915; July, 1922, to September, 1927.

REMARKS.—Records good. Discharge interpolated or estimated October 1–31, November 2–23, January 12–14, June 29, July 23, 30, 31, and September 22–28. Intake in NW. ¼ sec. 11, T. 19 S., R. 21 W., New Mexico, on left side of Gila River. Water used for irrigation near Franklin.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 30 | 22 | 17 | 33 | 63 | 69 | 50 | 20 | 2.1 | 18 | 28 |
| 2 | | | 19 | 17 | 24 | 55 | 62 | 55 | 20 | 1.7 | 39 | 32 |
| 3 | | | 20 | 17 | 3.0 | 54 | 60 | 55 | 18 | 1.5 | 48 | 24 |
| 4 | | | 21 | 17 | 8.2 | 53 | 41 | 51 | 17 | 11 | 50 | 15 |
| 5 | | | 24 | 18 | 24 | 33 | 50 | 47 | 15 | 57 | 38 | 14 |
| 6 | | | 33 | 20 | 40 | 0 | 52 | 38 | 13 | 49 | 36 | 18 |
| 7 | | | 50 | 22 | 42 | 0 | 58 | 34 | 13 | 17 | 30 | 17 |
| 8 | | | 53 | 22 | 40 | 0 | 54 | 34 | 10 | 46 | 36 | 25 |
| 9 | | | 48 | 24 | 39 | 0 | 52 | 47 | 7.7 | 43 | 42 | 37 |
| 10 | | | 27 | 28 | 39 | 0 | 48 | 36 | 6.8 | 40 | 46 | 36 |
| 11 | | | 18 | 31 | 42 | 2.6 | 44 | 34 | 7.3 | 40 | 37 | 31 |
| 12 | | | 11 | 31 | 36 | 3.3 | 36 | 32 | 7.9 | 41 | 31 | 24 |
| 13 | | 20 | 8 | 33 | 47 | 0 | 39 | 30 | 8.2 | 62 | 26 | 0 |
| 14 | | | 12 | 34 | 41 | 0 | 32 | 26 | 8.6 | 39 | 19 | 0 |
| 15 | | | 13 | 34 | 21 | 5.0 | 28 | 25 | 8.4 | 23 | 16 | 5 |
| 16 | 12 | | 22 | 33 | 26 | 23 | 26 | 24 | 6.8 | 21 | 43 | 29 |
| 17 | | | 27 | 31 | 44 | 52 | 23 | 24 | 5.6 | 17 | 31 | 22 |
| 18 | | | 24 | 29 | 38 | 54 | 28 | 25 | 4.1 | 15 | 25 | 32 |
| 19 | | | 23 | 28 | 34 | 54 | 31 | 20 | 3.3 | 11 | 45 | 52 |
| 20 | | | 22 | 18 | 24 | 53 | 29 | 27 | 2.9 | 7.5 | 24 | 0 |
| 21 | | | 22 | 11 | 3.8 | 53 | 30 | 27 | 3.1 | 4.0 | 20 | 15 |
| 22 | | | 23 | 15 | 0 | 44 | 39 | 27 | 2.7 | 3.6 | 37 | |
| 23 | | | 24 | 16 | 16 | 30 | 50 | 28 | 2.3 | 2.8 | 38 | |
| 24 | | 0 | 25 | 15 | 54 | 40 | 54 | 28 | 2.0 | 1.9 | 51 | |
| 25 | | 5 | 24 | 8 | 53 | 29 | 58 | 29 | 1.7 | 11 | 49 | 20 |
| 26 | | 19 | 22 | 11 | 65 | 48 | 61 | 28 | 1.6 | 13 | 58 | |
| 27 | | 24 | 20 | 10 | 66 | 64 | 58 | 26 | 2.4 | 43 | 55 | |
| 28 | | 26 | 20 | 17 | 68 | 63 | 47 | 24 | 2.9 | 55 | 53 | |
| 29 | | 26 | 19 | 32 | ------ | 64 | 49 | 24 | 3.0 | 40 | 43 | 22 |
| 30 | | 25 | 18 | 32 | ------ | 64 | 48 | 24 | 3.0 | 15 | 33 | 22 |
| 31 | | ------ | 18 | 34 | ------ | 66 | ------ | 22 | ------ | 20 | 32 | ------ |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | ------ | ------ | 12 | 738 |
| November | ------ | 0 | 19.8 | 1,180 |
| December | 53 | 8 | 23.6 | 1,450 |
| January | 34 | 8 | 22.7 | 1,400 |
| February | 66 | 0 | 34.9 | 1,940 |
| March | 66 | 0 | 34.5 | 2,120 |
| April | 69 | 23 | 45.2 | 2,690 |
| May | 55 | 20 | 32.3 | 1,990 |
| June | 20 | 1.6 | 7.61 | 453 |
| July | 57 | 1.5 | 24.3 | 1,490 |
| August | 58 | 16 | 37.1 | 2,280 |
| September | ------ | 0 | 21.3 | 1,270 |
| The year | 69 | 0 | 26.2 | 19,000 |

### VALLEY CANAL NEAR DUNCAN, ARIZ.

LOCATION.—Staff gage in SW. ¼ sec. 32, T. 18 S., R. 21 W., New Mexico, half a mile below intake and 6 miles east of Duncan.

RECORDS AVAILABLE.—October, 1914, to September, 1915; July, 1923, to September, 1927.

REMARKS.—Records good. Intake on right side of Gila River in NW. ¼ sec. 4, T. 19 S., R. 21 W., New Mexico. Water used for irrigation near Duncan.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 22 | 36 | 19 | 10 | 0.3 | 0 | 34 | 31 | 11 | 3.6 | 32 | 18 |
| 2 | 24 | 34 | 20 | 10 | 0 | 6.5 | 28 | 31 | 10 | 3.9 | 31 | 20 |
| 3 | 28 | 34 | 20 | 10 | 0 | 6.5 | 28 | 32 | 10 | 3.6 | 30 | 14 |
| 4 | 29 | 33 | 21 | 10 | .3 | 17 | 13 | 32 | 10 | 3.2 | 27 | 13 |
| 5 | 29 | 33 | 21 | 4.9 | .7 | 29 | 17 | 31 | 9.8 | 19 | 36 | 10 |
| 6 | 28 | 32 | 22 | 0 | 1.9 | 28 | 34 | 31 | 10 | 26 | 31 | 9.2 |
| 7 | 27 | 32 | 28 | 0 | 1.9 | 28 | 34 | 32 | 10 | 9.5 | 27 | 25 |
| 8 | 24 | 22 | 25 | 0 | .5 | 25 | 34 | 31 | 10 | 19 | 28 | 37 |
| 9 | 23 | 24 | 27 | 10 | .3 | 28 | 34 | 30 | 10 | 19 | 28 | 36 |
| 10 | 22 | 21 | 26 | 24 | 0 | 29 | 34 | 30 | 9.2 | 15 | 19 | 36 |
| 11 | 22 | 20 | 20 | 26 | 11 | 26 | 34 | 30 | 11 | 19 | 29 | 36 |
| 12 | 16 | 21 | 18 | 25 | 23 | 26 | 34 | 30 | 12 | 21 | 28 | 21 |
| 13 | 25 | 22 | 18 | 25 | 23 | 25 | 34 | 28 | 12 | 25 | 26 | 0 |
| 14 | 20 | 22 | 18 | 30 | 24 | 26 | 33 | 27 | 7.0 | 9.2 | 23 | 0 |
| 15 | 16 | 21 | 17 | 38 | 20 | 26 | 34 | 26 | 5.8 | 7.8 | 19 | 0 |
| 16 | 24 | 22 | 17 | 28 | 18 | 27 | 33 | 24 | 5.8 | 8.0 | 28 | 0 |
| 17 | 22 | 23 | 16 | 25 | 24 | 26 | 33 | 26 | 5.6 | 11 | 28 | 0 |
| 18 | 22 | 22 | 14 | 23 | 16 | 26 | 32 | 33 | 6.1 | 8.0 | 40 | 10 |
| 19 | 23 | 22 | 14 | 21 | 12 | 26 | 33 | 35 | 6.5 | 7.2 | 22 | 20 |
| 20 | 25 | 24 | 12 | 18 | 19 | 26 | 33 | 34 | 6.1 | 7.2 | 21 | 20 |
| 21 | 26 | 24 | 12 | 17 | 18 | 25 | 32 | 31 | 5.6 | 9.8 | 24 | 19 |
| 22 | 26 | 23 | 10 | 14 | 18 | 24 | 32 | 28 | 5.8 | 6.8 | 24 | 15 |
| 23 | 26 | 23 | 11 | 13 | 16 | 25 | 32 | 24 | 5.6 | 3.4 | 28 | 11 |
| 24 | 25 | 23 | 11 | 11 | 15 | 27 | 32 | 21 | 4.1 | 9.2 | 26 | 8.8 |
| 25 | 23 | 23 | 10 | 8.8 | 19 | 25 | 30 | 22 | 3.4 | 8.5 | 27 | 7.8 |
| 26 | 21 | 22 | 10 | 7.8 | 16 | 23 | 29 | 21 | 3.9 | 31 | 28 | 6.3 |
| 27 | 18 | 22 | 10 | 6.3 | 0 | 21 | 30 | 16 | 3.6 | 16 | 30 | 9.8 |
| 28 | 14 | 22 | 11 | 4.1 | 0 | 24 | 34 | 15 | 3.6 | 16 | 28 | 16 |
| 29 | 10 | 22 | 10 | 1.1 | ------ | 34 | 30 | 14 | 3.2 | 41 | 26 | 18 |
| 30 | 13 | 21 | 10 | .5 | ------ | 38 | 31 | 14 | 3.2 | 35 | 20 | 16 |
| 31 | 36 | ------ | 10 | .4 | ------ | 39 | ------ | 12 | ------ | 32 | 19 | ------ |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 36 | 10 | 22.9 | 1,410 |
| November | 36 | 20 | 24.8 | 1,480 |
| December | 28 | 10 | 16.4 | 1,010 |
| January | 38 | 0 | 13.6 | 836 |
| February | 24 | 0 | 10.6 | 589 |
| March | 39 | 0 | 24.6 | 1,510 |
| April | 34 | 13 | 31.2 | 1,860 |
| May | 35 | 12 | 26.5 | 1,630 |
| June | 12 | 3.2 | 7.33 | 436 |
| July | 41 | 3.2 | 14.6 | 898 |
| August | 40 | 19 | 26.9 | 1,650 |
| September | 37 | 0 | 15.1 | 898 |
| The year | 41 | 0 | 19.6 | 14,200 |

### DUNCAN CANAL NEAR DUNCAN, ARIZ.

LOCATION.—Staff gage in NE. ¼ sec. 29, T. 8 S., R. 32 E., 1 mile below intake and 2 miles east of Duncan.
RECORDS AVAILABLE.—July, 1923, to September, 1927.
REMARKS.—Records good. Diversions from canal for irrigation above station. Intake on left side of Gila River in SW. ¼ sec. 28, T. 8 S., R. 32 E. Water used for irrigation near Duncan.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | 0.3 | 0 | 0.7 | 0.1 | 0 | 6.6 | 3.3 | 6.4 | 4.7 | 0 | 0.2 |
| 2 | 0 | .3 | 0 | .7 | 0 | 0 | 7.4 | 3.4 | 5.5 | 4.8 | 0.2 | 1.5 |
| 3 | 0 | 0 | 0 | .5 | 0 | 0 | 6.8 | 4.2 | 5.6 | 5.0 | 0 | .9 |
| 4 | 0 | 0 | 0 | .5 | 0 | 0 | 6.1 | 4.6 | 5.2 | 4.4 | 0 | .5 |
| 5 | 0 | 0 | 0 | .5 | 0 | 0 | 5.6 | 4.6 | 4.1 | 3.3 | 1.9 | .4 |
| 6 | 0 | 0 | 0 | .4 | 0 | 0 | 3.1 | 3.3 | 4.0 | 5.6 | 6.4 | .8 |
| 7 | 0 | 0 | 0 | .2 | 0 | 0 | 5.5 | 5.2 | 3.8 | .3 | 6.2 | 6.4 |
| 8 | 0 | 0 | 0 | 0 | 0 | 0 | 3.9 | 9.8 | 4.1 | 1.6 | 4.3 | 3.6 |
| 9 | 0 | 0 | 0 | .2 | 0 | 0 | 2.1 | 9.1 | 3.4 | 1.4 | 5.9 | 2.4 |
| 10 | 0 | 0 | 0 | .2 | 0 | 0 | 2.3 | 9.1 | 3.5 | 1.1 | 1.4 | 1.8 |
| 11 | 0 | 0 | 0 | 0 | 0 | 0 | 1.4 | 8.6 | 4.5 | 1.3 | .3 | 3.3 |
| 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7.7 | 3.5 | 1.9 | 1.4 | 4.6 |
| 13 | 0 | 0 | 0 | .4 | 0 | 0 | 0 | 7.2 | 2.9 | 2.3 | 4.0 | 0 |
| 14 | 0 | 0 | 0 | .4 | 0 | 0 | .8 | 5.1 | 3.1 | 2.6 | 4.3 | 0 |
| 15 | 0 | 0 | 0 | .3 | 0 | 0 | 2.8 | 3.4 | 4.0 | 3.4 | 4.4 | 0 |
| 16 | 0 | 0 | 0 | .2 | 0 | 0 | 4.4 | 6.0 | 3.6 | 1.7 | 8.9 | 0 |
| 17 | 0 | 0 | 0 | .2 | .6 | 1.8 | 5.3 | 7.5 | 3.3 | 1.1 | 0 | .3 |
| 18 | 0 | 0 | 0 | .2 | .5 | 3.5 | 3.7 | 4.0 | 3.9 | 2.5 | .1 | .8 |
| 19 | 0 | 0 | 0 | .1 | .2 | 3.6 | 1.4 | 4.5 | 3.3 | 4.2 | .3 | .6 |
| 20 | 0 | 1.5 | 0 | .1 | 0 | 3.6 | 1.2 | 3.7 | 3.9 | 4.7 | 0 | .6 |
| 21 | 0 | .3 | 0 | .1 | 0 | 3.8 | 1.4 | 4.1 | 4.4 | 4.0 | 0 | .1 |
| 22 | 0 | 0 | 0 | 0 | 0 | 4.1 | 2.6 | 4.9 | 4.7 | 3.3 | 0 | 0 |
| 23 | 0 | 0 | 0 | .2 | 0 | 2.9 | 4.2 | 8.4 | 3.7 | 5.2 | 0 | 0 |
| 24 | 0.4 | 0 | 0 | .1 | 0 | 4.1 | 4.6 | 12 | 6.5 | 8.2 | 0 | 0 |
| 25 | .7 | 0 | 0 | 0 | .7 | 2.9 | 4.3 | 12 | 6.3 | 8.2 | 0 | 0 |
| 26 | .6 | 0 | 0 | .7 | 2.2 | 5.4 | 4.2 | 13 | 6.3 | 7.0 | .1 | .1 |
| 27 | .2 | 0 | 0 | .7 | .3 | 6.2 | 2.7 | 13 | 6.8 | 5.0 | 6.8 | .1 |
| 28 | 0 | 0 | 0 | 0 | 0 | 6.2 | 2.4 | 14 | 6.0 | 6.6 | 5.4 | 0 |
| 29 | 0 | 0 | .8 | 0 | ------ | 6.5 | 2.7 | 15 | 3.6 | 6.6 | 1.7 | 1.3 |
| 30 | 0 | 0 | 0 | 0 | ------ | 5.6 | 3.4 | 8.7 | 4.9 | 0 | 2.1 | .2 |
| 31 | 0 | ------ | 0 | .2 | ------ | 5.3 | ------ | 4.0 | ------ | 0 | .9 | ------ |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 0.7 | 0 | 0.06 | 3.69 |
| November | 1.5 | 0 | .08 | 4.76 |
| December | .8 | 0 | .03 | 1.84 |
| January | .7 | 0 | .25 | 15.4 |
| February | 2.2 | 0 | .16 | 8.89 |
| March | 6.5 | 0 | 2.11 | 130 |
| April | 7.4 | 0 | 3.43 | 204 |
| May | 15 | 3.3 | 7.21 | 443 |
| June | 6.8 | 2.9 | 4.49 | 267 |
| July | 8.2 | 0 | 3.61 | 222 |
| August | 8.9 | 0 | 2.16 | 133 |
| September | 6.4 | 0 | 1.02 | 60.7 |
| The year | 15 | 0 | 2.06 | 1,490 |

### BLACK-McCLESKY CANAL AT DUNCAN, ARIZ.

LOCATION.—Staff gage in SE. ¼ sec. 19, T. 8 S., R. 32 E., at Duncan, a quarter of a mile below intake.
RECORDS AVAILABLE.—April to September, 1915; July, 1923, to September, 1927.
REMARKS.—Records fair. Intake on left side of Gila River in SE. ¼ sec. 19, T. 8 S., R. 32 E. Water used for irrigation near Duncan.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 11 | 25 | 6.9 | 6.2 | 5.8 | 6.3 | 24 | 25 | 13 | 7.1 | 0 | 0.8 |
| 2 | 11 | 20 | 8.7 | 5.5 | 5.3 | 2.8 | 25 | 25 | 13 | 7.5 | 0 | 0 |
| 3 | 14 | 19 | 9.1 | 6.3 | 5.7 | 0 | 23 | 23 | 11 | 7.6 | 0 | 5.7 |
| 4 | 17 | 18 | 9.5 | 6.2 | 4.9 | 0 | 22 | 22 | 13 | 10 | 5.7 | 5.9 |
| 5 | 13 | 18 | 14 | 6.4 | 4.2 | 6.9 | 20 | 24 | 11 | 19 | 25 | 8.1 |
| 6 | 13 | 18 | 13 | 8.9 | 4.7 | 20 | 21 | 25 | 19 | 13 | 22 | 19 |
| 7 | 16 | 19 | 21 | 9.5 | 4.5 | 26 | 21 | 18 | 8.7 | 13 | 22 | 8.4 |
| 8 | 13 | 18 | 22 | 9.0 | 4.4 | 28 | 21 | 20 | 13 | 9.0 | 22 | 9.2 |
| 9 | 10 | 18 | 25 | 9.1 | 4.5 | 27 | 19 | 26 | 8.5 | 7.6 | 18 | 14 |
| 10 | 11 | 16 | 17 | 9.7 | 3.7 | 26 | 19 | 29 | 3.7 | 0 | 16 | 9.2 |
| 11 | 10 | 15 | 18 | 12 | 3.6 | 26 | 19 | 31 | 12 | 0 | 16 | 8.3 |
| 12 | 10 | 15 | 18 | 12 | 4.3 | 26 | 18 | 30 | 9.8 | 0 | 16 | 31 |
| 13 | 13 | 14 | 18 | 11 | 5.1 | 26 | 18 | 29 | 10 | 0 | 11 | 19 |
| 14 | 12 | 14 | 21 | 11 | 5.5 | 26 | 18 | 27 | 9.0 | 0 | 14 | 0 |
| 15 | 13 | 13 | 20 | 11 | 6.0 | 24 | 16 | 26 | 3.5 | 0 | 15 | 0 |
| 16 | 11 | 13 | 17 | 10 | 6.2 | 24 | 16 | 20 | 9.3 | 0 | 12 | 0 |
| 17 | 4.9 | 10 | 14 | 9.9 | 8.1 | 25 | 14 | 17 | 8.5 | 0 | 27 | 0 |
| 18 | 3.9 | 10 | 13 | 9.9 | 23 | 25 | 16 | 17 | 6.3 | 0 | 32 | 0 |
| 19 | 3.1 | 11 | 11 | 9.5 | 9.8 | 25 | 16 | 17 | 6.3 | 5.9 | 32 | 0 |
| 20 | 2.7 | 11 | 11 | 9.0 | 7.2 | 24 | 16 | 17 | 6.3 | 3.8 | 25 | 0 |
| 21 | 2.1 | 10 | 13 | 7.8 | 6.0 | 24 | 18 | 15 | 7.1 | 3.3 | 21 | 0 |
| 22 | 2.3 | 9.3 | 14 | 7.4 | 4.9 | 24 | 17 | 13 | 4.8 | 2.2 | 22 | 0 |
| 23 | 3.5 | 10 | 15 | 9.2 | 4.3 | 23 | 15 | 14 | 3.4 | 3.3 | 15 | 8.7 |
| 24 | 3.5 | 11 | 14 | 8.6 | 4.1 | 21 | 16 | 11 | 4.5 | 4.3 | 13 | 6.4 |
| 25 | 10 | 8.1 | 12 | 8.1 | 4.2 | 22 | 15 | 10 | 4.5 | 3.0 | 10 | 5.8 |
| 26 | 12 | 6.7 | 9.6 | 6.4 | 5.3 | 19 | 13 | 18 | 3.8 | 16 | 7.9 | 7.2 |
| 27 | 11 | 7.5 | 9.3 | 5.6 | 6.9 | 20 | 13 | 20 | 8.8 | 17 | 4.8 | 3.8 |
| 28 | 11 | 8.5 | 8.9 | 6.4 | 6.7 | 19 | 18 | 16 | 5.7 | 18 | 3.4 | 5.7 |
| 29 | 12 | 10 | 8.0 | 6.3 | ------- | 18 | 24 | 15 | 21 | 26 | 2.5 | 4.5 |
| 30 | 16 | 9.1 | 5.7 | 6.3 | ------- | 19 | 25 | 12 | 2.1 | 15 | .5 | 2.5 |
| 31 | 28 | ------- | 5.2 | 5.7 | ------- | 20 | ------- | 19 | ------- | 2.3 | 0 | ------- |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 28 | 2.1 | 10.5 | 646 |
| November | 25 | 6.7 | 13.5 | 803 |
| December | 25 | 5.2 | 13.6 | 836 |
| January | 12 | 5.5 | 8.38 | 515 |
| February | 23 | 3.6 | 6.03 | 335 |
| March | 28 | 0 | 20.1 | 1,240 |
| April | 25 | 13 | 18.5 | 1,100 |
| May | 31 | 10 | 20.4 | 1,250 |
| June | 21 | 2.1 | 8.69 | 517 |
| July | 26 | 0 | 6.90 | 424 |
| August | 32 | 0 | 13.9 | 855 |
| September | 31 | 0 | 5.54 | 330 |
| The year | 32 | 0 | 12.2 | 8,850 |

### COLMONERO CANAL NEAR DUNCAN, ARIZ.

LOCATION.—Staff gage in SE. ¼ sec. 33, T. 7 S., R. 31 E., 3 miles below intake and 6 miles northwest of Duncan.

RECORDS AVAILABLE.—September, 1914, to September, 1915; July, 1923, to September, 1927.

REMARKS.—Records good. Diversions from canal for irrigation above station. Intake on right side of Gila River in SE. ¼ sec. 11, T. 8 S., R. 31 E. Water used for irrigation near Sheldon.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.4 | 2.6 | 1.1 | 0.9 | 2.5 | 4.5 | 0 | 7.6 | 2.4 | 4.2 | 0 | 4.3 |
| 2 | 5.4 | 2.6 | 1.1 | .9 | 2.2 | 3.9 | 3.2 | 7.2 | 3.4 | 2.7 | 2.6 | 4.2 |
| 3 | 2.5 | 2.3 | 1.1 | .7 | 1.3 | 3.5 | 8.1 | 6.7 | 5.8 | 1.7 | 2.9 | 3.2 |
| 4 | 1.5 | 2.4 | 1.1 | .6 | 1.9 | 3.2 | 7.7 | 6.1 | 6.0 | 1.1 | 2.5 | 3.4 |
| 5 | 4.1 | 2.3 | 2.2 | .6 | 1.8 | 3.6 | 7.6 | 6.4 | 5.5 | 5.6 | 2.0 | 3.5 |
| 6 | 3.5 | 2.3 | 0 | .8 | 2.0 | 3.0 | 7.5 | 6.6 | 6.3 | 2.8 | 2.5 | 2.4 |
| 7 | 3.5 | 2.3 | 0 | .8 | 1.3 | 3.3 | 6.8 | 5.1 | 2.1 | 0 | 5.4 | 1.5 |
| 8 | 3.5 | 2.3 | 0 | 1.3 | 1.5 | 1.4 | 7.7 | 7.0 | 5.1 | 0 | 5.0 | 4.2 |
| 9 | 3.5 | 2.2 | 0 | 1.7 | 1.4 | .8 | 7.1 | 7.9 | 5.0 | 0 | 5.6 | 3.1 |
| 10 | 3.4 | 2.0 | .4 | 1.9 | 2.5 | 2.4 | 5.2 | 7.5 | 2.6 | 0 | 4.0 | 4.8 |
| 11 | 3.5 | 2.0 | 1.2 | 2.1 | 2.9 | 1.2 | 0 | 7.5 | 3.3 | 0 | 4.4 | 4.5 |
| 12 | 4.0 | 1.8 | 3.2 | 1.9 | 3.5 | .3 | 1.0 | 7.0 | 5.0 | 3.1 | 1.6 | 2.5 |
| 13 | 0 | 1.6 | 3.6 | 1.8 | 4.6 | .5 | 2.4 | 7.0 | 3.8 | 1.4 | 1.7 | 0 |
| 14 | 2.1 | 1.7 | 3.6 | 1.1 | 3.4 | 1.4 | 4.3 | 5.2 | 5.4 | 2.5 | 4.9 | 0 |
| 15 | 4.4 | 1.7 | 3.5 | 2.0 | 3.2 | 1.4 | 5.2 | 5.6 | 5.1 | 3.3 | 4.6 | 0 |
| 16 | 4.4 | 2.2 | 1.8 | 1.3 | 2.0 | 3.1 | 3.0 | 5.2 | 5.0 | 1.5 | 1.4 | .9 |
| 17 | 3.0 | 1.7 | 1.7 | 1.7 | 3.0 | 1.7 | 2.8 | 6.1 | 5.4 | .2 | 0 | 1.0 |
| 18 | 2.6 | 1.6 | 1.7 | 1.2 | 4.2 | .5 | 6.1 | 5.7 | 3.9 | .1 | 0 | 1.6 |
| 19 | 2.7 | 1.6 | 1.0 | .7 | 2.3 | .3 | 7.1 | 5.2 | 3.2 | 1.6 | 0 | 4.8 |
| 20 | 2.7 | 1.5 | .8 | .6 | 0 | .8 | 7.1 | 5.4 | 5.4 | 2.2 | 0 | 4.7 |
| 21 | 3.1 | 1.5 | .7 | .5 | 1.2 | 0 | 7.1 | 4.8 | 4.7 | 4.1 | 1.6 | 3.8 |
| 22 | 2.7 | 1.5 | 1.1 | .2 | 5.0 | 0 | 6.5 | 1.2 | 5.3 | 4.6 | 0 | 4.4 |
| 23 | 3.0 | 1.4 | 3.0 | 0 | 4.3 | 0 | 6.0 | 5.3 | 0 | 4.6 | 0 | 3.9 |
| 24 | 3.0 | 1.4 | 2.9 | 0 | 4.3 | 0 | 7.5 | 6.1 | .9 | 0 | 1.0 | 3.4 |
| 25 | 3.0 | 1.3 | 2.8 | 1.3 | 4.3 | 0 | 7.3 | 6.2 | .9 | .6 | 2.5 | 3.3 |
| 26 | 3.0 | 1.2 | 1.8 | 2.2 | 2.0 | 0 | 7.3 | 7.2 | .8 | 1.5 | 3.3 | 3.3 |
| 27 | 3.1 | 1.2 | 1.3 | 2.5 | 1.2 | 0 | 7.3 | 7.3 | 4.2 | 0 | 4.1 | 3.0 |
| 28 | 3.0 | 1.2 | 1.3 | 2.6 | 4.6 | 0 | 7.3 | 7.8 | 5.2 | 0 | 3.7 | 3.1 |
| 29 | 2.9 | 1.3 | 1.3 | 2.6 | ------ | 0 | 7.8 | 7.3 | 5.3 | 3.1 | 3.4 | 3.2 |
| 30 | 3.0 | 1.1 | 1.1 | 2.6 | ------ | 0 | 7.8 | 7.3 | 4.1 | .4 | 3.0 | 1.9 |
| 31 | 3.0 | ------ | 1.1 | 2.7 | ------ | 0 | ------ | 7.6 | ------ | 0 | 1.6 | ------ |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 5.4 | 0 | 3.18 | 196 |
| November | 2.6 | 1.1 | 1.79 | 107 |
| December | 3.6 | 0 | 1.53 | 94.1 |
| January | 2.7 | 0 | 1.35 | 83.0 |
| February | 5.0 | 0 | 2.66 | 148 |
| March | 4.5 | 0 | 1.32 | 81.2 |
| April | 8.1 | 0 | 5.73 | 341 |
| May | 7.9 | 1.2 | 6.33 | 389 |
| June | 6.3 | 0 | 4.04 | 240 |
| July | 5.6 | 0 | 1.71 | 105 |
| August | 5.6 | 0 | 2.43 | 149 |
| September | 4.8 | 0 | 2.93 | 174 |
| The year | 8.1 | 0 | 2.91 | 2,110 |

### YORK CANAL AT YORK, ARIZ.

LOCATION.—In SE. ¼ sec. 19, T. 6 S., R. 31 E., at York, half a mile below intake.
RECORDS AVAILABLE.—September, 1914, to September, 1915, gage heights and discharge measurements. May, 1923, to September, 1927, discharge measurements only.
REMARKS.—Intake on right side of Gila River in SW. ¼ sec. 29, T. 6 S., R. 31 E. Water used for irrigation near York.

*Discharge measurements, 1926–27*

| | Second-feet | | Second-feet | | Second-feet |
|---|---|---|---|---|---|
| Oct. 12 | 3.8 | Feb. 8 | 2.3 | June 17 | 5.0 |
| Nov. 3 | 1.6 | Mar. 29 | 3.9 | July 22 | 3.0 |
| Nov. 26 | 2.9 | Apr. 19 | 4.3 | Aug. 9 | 3.3 |
| Dec. 17 | 2.5 | May 9 | 6.4 | Sept. 1 | 2.3 |
| Jan. 13 | 2.4 | May 31 | 5.6 | Sept. 30 | 1.2 |

### SAN FRANCISCO RIVER AT CLIFTON, ARIZ.

LOCATION.—Water-stage recorder in SW. ¼ SE. ¼ sec. 30, T. 4 S., R. 30 E., at Clifton. Zero of gage is 3,432.3 feet above mean sea level.
DRAINAGE AREA.—2,750 square miles.
RECORDS AVAILABLE.—July to September, 1927. Fragmentary record, October 1910, to July, 1918, at several different points within 2 miles upstream.
EXTREMES.—Maximum discharge during period, 5,760 second-feet September 12 (gage height, 9.4 feet); minimum, 33 second-feet July 22 (gage height, 3.10 feet).
Minimum known discharge, 2 second-feet June 29, 1917.
REMARKS.—Records good. Discharge estimated September 11–30. Diversions for irrigation and municipal supply above station.

*Daily and monthly discharge, in second-feet, 1927*

| Day | July | Aug. | Sept. | Day | July | Aug. | Sept. | Day | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 96 | 91 | 11 | | 171 | | 21 | 38 | 144 | |
| 2 | | 79 | 74 | 12 | | 130 | | 22 | 38 | 118 | 950 |
| 3 | | 63 | 66 | 13 | | 104 | | 23 | 39 | 114 | |
| 4 | | 222 | 59 | 14 | | 91 | | 24 | 44 | 342 | |
| 5 | | 367 | 56 | 15 | | 84 | | 25 | 74 | 160 | |
| 6 | | 263 | 62 | 16 | | 107 | 950 | 26 | 112 | 118 | |
| 7 | | 234 | 80 | 17 | | 118 | | 27 | 254 | 114 | 160 |
| 8 | | 361 | 95 | 18 | | 150 | | 28 | 356 | 110 | |
| 9 | | 252 | 215 | 19 | | 199 | | 29 | 174 | 95 | |
| 10 | | 420 | 166 | 20 | 40 | 219 | | 30 | 207 | 87 | |
| | | | | | | | | 31 | 116 | 76 | |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| July 20–31 | 356 | 38 | 124 | 2,950 |
| August | 420 | 63 | 168 | 10,300 |
| September | | 56 | 455 | 27,100 |
| The period | | | | 40,400 |

### BROWN CANAL NEAR SOLOMONSVILLE, ARIZ.

LOCATION.—Water-stage recorder in SE. ¼ SE. ¼ sec. 30, T. 6 S., R. 28 E., a quarter of a mile below intake and 10 miles east of Solomonsville.

RECORDS AVAILABLE.—June, 1914, to September, 1915; December, 1920, to September, 1927.

REMARKS.—Records good. Discharge estimated July 17–26. Intake on right side of Gila River in SE. ¼ sec. 30, T. 6 S., R. 28 E. Water used for irrigation east of Solomonsville. Water is frequently returned to river below gage through Brown Canal wasteway, records for which are published in this report.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 11 | 8.9 | 11 | 5.8 | 8.2 | 0 | 36 | 20 | 20 | 16 | 14 | 21 |
| 2 | 10 | 11 | 11 | 4.7 | 7.8 | 11 | 34 | 23 | 19 | 13 | 14 | 21 |
| 3 | 8.3 | 8.9 | 11 | 4.5 | 7.8 | 23 | 34 | 24 | 19 | 12 | 20 | 16 |
| 4 | 7.6 | 8.7 | 11 | 3.5 | 8.7 | 23 | 36 | 24 | 18 | 14 | 25 | 13 |
| 5 | 5.8 | 9.1 | 11 | 2.6 | 6.7 | 23 | 36 | 22 | 18 | 25 | 28 | 12 |
| 6 | 5.6 | 8.3 | 10 | 2.8 | 7.3 | 22 | 34 | 20 | 18 | 22 | 28 | 13 |
| 7 | 10 | 17 | 12 | 3.1 | 7.1 | 23 | 35 | 17 | 17 | 10 | 25 | 13 |
| 8 | 9.5 | 23 | 12 | 4.3 | 3.4 | 23 | 35 | 7.6 | 17 | 14 | 12 | 22 |
| 9 | 11 | 12 | 12 | 5.5 | 0 | 23 | 35 | 18 | 17 | 14 | 19 | 26 |
| 10 | 11 | 16 | 14 | 6.6 | 0 | 23 | 34 | 23 | 15 | 8.9 | 27 | 36 |
| 11 | 13 | 15 | 14 | 7.4 | 0 | 11 | 34 | 26 | 18 | 7.3 | 26 | 29 |
| 12 | 14 | 15 | 11 | 8.0 | 0 | 20 | 33 | 18 | 23 | 13 | 25 | 18 |
| 13 | 13 | 16 | 12 | 7.1 | 0 | 20 | 35 | 9.3 | 24 | 9.2 | 15 | 1.8 |
| 14 | 11 | 17 | 14 | 8.7 | 3.8 | 20 | 23 | 13 | 23 | 6.4 | 19 | .7 |
| 15 | 13 | 16 | 14 | 9.5 | 6.6 | 21 | 23 | 24 | 22 | 14 | 17 | 0 |
| 16 | 12 | 15 | 13 | 7.6 | 3.1 | 20 | 23 | 25 | 20 | 17 | 17 | 0 |
| 17 | 10 | 16 | 11 | 8.0 | 0 | 21 | 23 | 25 | 19 | 16 | 28 | 0 |
| 18 | 9.5 | 17 | 9.9 | 7.1 | 0 | 21 | 23 | 25 | 17 | 15 | 23 | 0 |
| 19 | 9.3 | 16 | 10 | 6.7 | 0 | 23 | 24 | 25 | 17 | 14 | 22 | 0 |
| 20 | 9.7 | 17 | 9.7 | 6.7 | 0 | 23 | 23 | 25 | 16 | 13 | 7.3 | 0 |
| 21 | 6.1 | 17 | 9.9 | 6.6 | 0 | 23 | 23 | 25 | 14 | 12 | 6.9 | 0 |
| 22 | 4.3 | 12 | 11 | 7.1 | 0 | 18 | 23 | 25 | 14 | 11 | 5.6 | 1.9 |
| 23 | 5.9 | 13 | 12 | 6.1 | 0 | 14 | 24 | 24 | 12 | 10 | 15 | 4.8 |
| 24 | 5.2 | 11 | 12 | 6.6 | 0 | 14 | 24 | 24 | 12 | 14 | 23 | 2.8 |
| 25 | 5.2 | 15 | 10 | 6.5 | 0 | 22 | 23 | 24 | 11 | 19 | 19 | 1.8 |
| 26 | 5.2 | 14 | 12 | 7.8 | 0 | 21 | 23 | 23 | 10 | 23 | 13 | 1.5 |
| 27 | 5.5 | 14 | 12 | 7.3 | 0 | 23 | 22 | 22 | 12 | 27 | 14 | 1.0 |
| 28 | 5.0 | 14 | 12 | 6.3 | 0 | 28 | 22 | 22 | 14 | 38 | 14 | .9 |
| 29 | 5.0 | 9.1 | 12 | 8.0 | ------- | 34 | 21 | 21 | 14 | 29 | 16 | .8 |
| 30 | 6.4 | 12 | 10 | 6.7 | ------- | 33 | 21 | 21 | 17 | 29 | 25 | .8 |
| 31 | 9.9 | ------- | 8.0 | 7.1 | ------- | 34 | ------- | 21 | ------- | 20 | 22 | ------ |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 14 | 4.3 | 8.65 | 532 |
| November | 23 | 8.3 | 13.8 | 821 |
| December | 14 | 8.0 | 11.4 | 701 |
| January | 9.5 | 2.6 | 6.33 | 389 |
| February | 8.7 | 0 | 2.52 | 140 |
| March | 34 | 0 | 21.2 | 1,300 |
| April | 36 | 21 | 28.0 | 1,670 |
| May | 26 | 7.6 | 21.5 | 1,320 |
| June | 24 | 10 | 16.9 | 1,010 |
| July | 38 | 6.4 | 16.3 | 1,000 |
| August | 28 | 5.6 | 18.9 | 1,160 |
| September | 36 | 0 | 8.63 | 514 |
| The year | 38 | 0 | 14.6 | 10,600 |

### BROWN CANAL WASTEWAY NEAR SOLOMONSVILLE, ARIZ.

LOCATION.—Staff gage in SE. ¼ NE. ¼ sec. 31, T. 6 S., R. 28 E., 10 miles east of Solomonsville.

RECORDS AVAILABLE.—December, 1920, to September, 1927.

REMARKS.—Records good. Wasteway returns water from Brown Canal to Gila River half a mile below gaging station of "Gila River near Solomonsville, Ariz."

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 3.4 | 6.9 | 6.2 | 2.3 | 3.4 | 0 | 6.4 | 18 | 11 | 6.2 | 9.3 | 3.3 |
| 2 | 5.3 | 7.7 | 6.1 | 2.9 | 2.7 | 3.7 | 3.8 | 16 | 11 | 7.2 | 9.9 | 7.2 |
| 3 | 5.9 | 8.0 | 6.2 | 2.8 | 3.0 | 7.4 | 4.0 | 14 | 11 | 8.0 | 13 | 7.2 |
| 4 | 6.0 | 8.3 | 6.2 | 3.0 | 2.8 | 7.2 | 6.3 | 15 | 13 | 8.3 | 9.5 | 10 |
| 5 | 5.8 | 8.0 | 6.1 | 1.2 | 2.8 | 7.5 | 9.2 | 14 | 12 | 13 | 12 | 5.7 |
| 6 | 5.6 | 8.2 | 5.9 | 1.2 | 2.8 | 7.0 | 15 | 2.2 | 12 | 7.1 | 13 | 3.6 |
| 7 | 6.2 | 7.8 | 6.0 | 2.7 | 2.8 | 7.4 | 16 | 1.8 | 11 | 6.5 | 5.5 | 3.0 |
| 8 | 8.3 | 7.7 | 6.9 | 2.8 | 1.3 | 7.4 | 15 | 1.2 | 12 | 8.7 | 0 | 3.7 |
| 9 | 8.9 | 7.8 | 6.9 | 2.6 | 0 | 7.0 | 15 | 2.5 | 8.6 | 5.0 | 5.8 | 7.2 |
| 10 | 9.3 | 8.1 | 6.9 | 3.4 | 0 | 7.4 | 16 | .4 | 9.8 | 2.5 | 11 | 9.3 |
| 11 | 8.6 | 6.7 | 6.7 | 3.4 | 0 | 7.1 | 15 | .4 | 10 | 0 | 13 | 9.5 |
| 12 | 7.8 | 6.6 | 7.8 | 3.4 | 0 | 7.5 | 16 | 1.0 | 15 | 2.6 | 5.0 | 2.0 |
| 13 | 9.0 | 6.7 | 7.8 | 3.5 | 0 | 7.2 | 16 | 1.3 | 15 | 2.4 | .9 | 0 |
| 14 | 7.5 | 6.6 | 8.1 | 2.8 | 1.4 | 7.5 | 12 | 6.4 | 14 | 0 | 5.6 | 0 |
| 15 | 8.1 | 7.2 | 7.8 | 3.3 | 2.6 | 7.2 | 12 | 13 | 14 | .8 | 11 | 0 |
| 16 | 4.3 | 6.6 | 7.1 | 2.7 | 1.3 | 7.4 | 13 | 13 | 14 | .7 | .4 | 0 |
| 17 | 3.7 | 6.8 | 6.7 | 2.8 | 0 | 7.2 | 14 | 13 | 14 | .6 | 5.0 | 0 |
| 18 | 6.8 | 6.8 | 6.9 | 2.6 | 0 | 7.2 | 13 | 12 | 13 | 1.1 | 5.2 | 0 |
| 19 | 6.0 | 6.6 | 6.7 | 2.4 | 0 | 7.4 | 13 | 12 | 12 | 1.4 | 5.4 | 0 |
| 20 | 6.0 | 6.8 | 7.2 | 2.5 | 0 | 7.1 | 12 | 13 | 11 | 1.4 | 0 | 0 |
| 21 | 5.6 | 6.6 | 8.0 | 2.5 | 0 | 7.2 | 12 | 13 | 11 | 1.5 | 0 | 0 |
| 22 | 4.3 | 6.8 | 8.0 | 2.8 | 0 | 3.8 | 12 | 13 | 9.8 | 2.0 | 2.9 | 0 |
| 23 | 4.9 | 6.7 | 7.7 | 2.8 | 0 | 1.0 | 13 | 13 | 11 | 2.7 | 2.1 | 1.0 |
| 24 | 4.9 | 6.4 | 8.0 | 2.7 | 0 | 3.6 | 13 | 13 | 8.1 | 1.9 | 1.8 | 2.0 |
| 25 | 4.9 | 6.9 | 7.7 | 2.6 | 0 | 8.2 | 14 | 13 | 7.4 | 1.3 | 4.0 | 1.8 |
| 26 | 4.5 | 6.6 | 7.7 | 2.8 | 0 | 6.2 | 14 | 12 | 7.0 | 1.3 | .2 | 1.1 |
| 27 | 4.3 | 6.4 | 7.7 | 2.9 | 0 | 5.7 | 16 | 12 | 7.1 | 11 | 1.0 | 0 |
| 28 | 4.2 | 6.4 | 7.8 | 2.8 | 0 | 4.3 | 16 | 12 | 7.2 | 10 | 8.7 | 0 |
| 29 | 4.3 | 6.2 | 7.6 | 2.8 | ------- | 4.4 | 17 | 11 | 8.2 | 13 | 11 | 0 |
| 30 | 3.9 | 6.4 | 7.6 | 2.5 | ------- | 5.7 | 17 | 11 | 6.4 | 12 | 6.1 | 0 |
| 31 | 7.5 | ------- | 3.7 | 2.7 | ------- | 6.4 | ------- | 11 | ------- | 11 | 4.6 | ------- |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 9.3 | 3.4 | 5.99 | 368 |
| November | 8.3 | 6.2 | 7.04 | 419 |
| December | 8.1 | 3.7 | 7.02 | 432 |
| January | 3.5 | 1.2 | 2.72 | 167 |
| February | 3.4 | 0 | .96 | 53.3 |
| March | 8.2 | 0 | 6.17 | 379 |
| April | 17 | 3.8 | 12.9 | 768 |
| May | 18 | .4 | 9.81 | 603 |
| June | 15 | 6.4 | 10.9 | 649 |
| July | 13 | 0 | 4.88 | 300 |
| August | 13 | 0 | 5.90 | 363 |
| September | 10 | 0 | 2.59 | 154 |
| The year | 18 | 0 | 6.43 | 4,660 |

### MICHELENA CANAL NEAR SOLOMONSVILLE, ARIZ.

LOCATION.—Staff gage in NE. ¼ SW. ¼ sec. 3, T. 7 S., R. 27 E., a quarter of a mile below head gate, 4 miles below intake, and 4 miles northeast of Solomonsville.

RECORDS AVAILABLE.—October, 1914, to September, 1915; December, 1920, to September, 1927.

REMARKS.—Records good. Discharge estimated September 4–10. Intake on right side of Gila River in SW. ¼ sec. 31, T. 6 S., R. 28 E. Water used for irrigation near Solomonsville.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.6 | 5.9 | 0 | 0 | 5.0 | 5.5 | 12 | 10 | 4.5 | 3.7 | 8.1 | 10 |
| 2 | .4 | 5.1 | 0 | 0 | 2.5 | 5.0 | 13 | 10 | 4.1 | 2.4 | 6.5 | 10 |
| 3 | 5.8 | 4.7 | 0 | 0 | 0 | 4.2 | 13 | 10 | 4.1 | 3.3 | 6.8 | 10 |
| 4 | 5.9 | 3.9 | 0 | 0 | 0 | 4.2 | 12 | 10 | 4.0 | 8.5 | 7.8 | |
| 5 | 5.5 | 5.5 | 0 | 0 | 0 | 4.3 | 11 | 12 | 3.3 | 14 | 10 | |
| 6 | 3.6 | 6.0 | 0 | 0 | 0 | 4.8 | 11 | 10 | 3.1 | 16 | 11 | 12 |
| 7 | .6 | 5.5 | 0 | 0 | 0 | 5.4 | 11 | 10 | 3.0 | 0 | 8.1 | |
| 8 | 0 | 5.0 | 0 | 0 | 0 | 4.0 | 11 | 9.0 | 3.0 | 3.6 | 7.6 | |
| 9 | 0 | 5.0 | 0 | 0 | 0 | 3.1 | 11 | 8.2 | 2.9 | 3.7 | 6.9 | |
| 10 | 0 | 4.6 | 0 | .2 | 0 | 3.2 | 12 | 7.6 | 2.7 | 13 | 6.6 | |
| 11 | 0 | 4.1 | 0 | 0 | 0 | 2.8 | 12 | 6.6 | 5.9 | 8.5 | 6.3 | 12 |
| 12 | .2 | 3.9 | 0 | 0 | 0 | 2.6 | 12 | 5.3 | 9.4 | 9.5 | 5.9 | 9.0 |
| 13 | 0 | 4.6 | 0 | 0 | 0 | 2.6 | 12 | 4.7 | 8.8 | 8.6 | 5.3 | 12 |
| 14 | 1.8 | 4.6 | 0 | 0 | 0 | 3.0 | 12 | 4.7 | 10 | 5.4 | 4.5 | 10 |
| 15 | 3.1 | 4.3 | 0 | 0 | 0 | 3.0 | 12 | 4.9 | 7.3 | 3.1 | 7.3 | 9.5 |
| 16 | 3.1 | 4.3 | 0 | 0 | 0 | 3.1 | 11 | 5.2 | 5.4 | 3.2 | 6.8 | 8.6 |
| 17 | 3.0 | 4.2 | 0 | 0 | 0 | 3.6 | 9.8 | 5.5 | 3.6 | 3.6 | 6.7 | 8.1 |
| 18 | 2.7 | 4.2 | 0 | 0 | 0 | 3.8 | 9.1 | 4.9 | 2.2 | 2.3 | 10 | 0 |
| 19 | 2.5 | 4.0 | 0 | 0 | 0 | 4.0 | 12 | 5.1 | 1.8 | .6 | 9.6 | 0 |
| 20 | 2.2 | 4.2 | 0 | 0 | 0 | 3.6 | 13 | 4.9 | 1.8 | .6 | 8.1 | 0 |
| 21 | 1.2 | 4.7 | 0 | 0 | 0 | 3.0 | 12 | 5.0 | 3.0 | 3.5 | 6.9 | 0 |
| 22 | .6 | 4.4 | 0 | 0 | 0 | 5.7 | 12 | 5.5 | 2.1 | 8.1 | 13 | 0 |
| 23 | .2 | 4.6 | 0 | 3.0 | 0 | 7.5 | 12 | 9.1 | .4 | 8.5 | 13 | 0 |
| 24 | 0 | 4.7 | 0 | 6.1 | 0 | 8.6 | 14 | 7.3 | .1 | 9.2 | 13 | 0 |
| 25 | 0 | 4.7 | 0 | 6.2 | 0 | 9.2 | 13 | 6.9 | 0 | 11 | 11 | 0 |
| 26 | 0 | 5.0 | 0 | 5.0 | 0 | 10 | 12 | 7.5 | 2.2 | 12 | 11 | 0 |
| 27 | 0 | 5.2 | 0 | 4.8 | 4.5 | 11 | 12 | 6.8 | 6.1 | 10 | 11 | 0 |
| 28 | 0 | 5.2 | 0 | 4.9 | 3.6 | 12 | 11 | 6.0 | 3.7 | 10 | 10 | 3.4 |
| 29 | 0 | 2.6 | 0 | 4.6 | ------ | 12 | 11 | 5.9 | 2.8 | 10 | 10 | 6.8 |
| 30 | 3.7 | 0 | 0 | 4.6 | ------ | 12 | 11 | 8.5 | 4.4 | 10 | 9.8 | 7.3 |
| 31 | 4.5 | ------ | 0 | 4.8 | ------ | 12 | ------ | 5.3 | ------ | 7.6 | 9.8 | ------ |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 5.9 | 0 | 1.65 | 101 |
| November | 6.0 | 0 | 4.49 | 267 |
| December | 0 | 0 | 0 | 0 |
| January | 6.2 | 0 | 1.43 | 87.9 |
| February | 5.0 | 0 | .56 | 31.1 |
| March | 12 | 2.6 | 5.77 | 355 |
| April | 14 | 9.1 | 11.7 | 696 |
| May | 12 | 4.7 | 7.17 | 441 |
| June | 10 | 0 | 3.86 | 230 |
| July | 16 | 0 | 6.89 | 424 |
| August | 13 | 4.5 | 8.66 | 532 |
| September | ---------- | 0 | 6.99 | 398 |
| The year | 16 | 0 | 4.92 | 3,560 |

### FOURNESS CANAL NEAR SOLOMONSVILLE, ARIZ.

LOCATION.—Staff gage in SE. ¼ SE. ¼ sec. 35, T. 6 S., R. 27 E., three-quarters of a mile below intake and 8 miles east of Solomonsville.

RECORDS AVAILABLE.—October, 1914, to September, 1915; December, 1920, to September, 1927.

REMARKS.—Records good. Intake on left side of Gila River in NE. ¼ sec. 1, T. 7 S., R. 27 E. Water used for irrigation near Solomonsville.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.2 | 1.9 | 1.0 | 0 | 0 | 5.4 | 7.2 | 1.5 | 0.5 | 0 | 0 | 0 |
| 2 | .3 | 1.9 | 1.5 | 0 | 0 | 6.2 | .2 | .2 | 1.1 | .2 | 0 | 0 |
| 3 | 0 | 0 | 1.1 | 0 | 0 | 7.3 | .2 | .5 | 1.0 | .3 | 2.4 | 0 |
| 4 | 0 | 0 | 6.6 | 0 | 0 | 6.3 | 10 | 1.1 | .6 | .2 | 9.2 | 8.2 |
| 5 | 0 | 0 | 3.8 | 0 | 0 | 6.3 | 11 | .7 | .7 | 1.6 | 6.7 | 3.9 |
| 6 | 0 | 2.1 | 6.1 | 0 | 0 | 8.6 | 12 | .7 | .7 | 8.4 | 5.2 | 8.9 |
| 7 | 0 | 3.3 | 3.5 | 0 | 0 | 9.4 | 11 | 1.6 | .7 | 0 | .1 | 3.9 |
| 8 | 0 | 3.8 | 3.5 | 0 | .3 | 8.4 | 11 | 6.3 | .2 | 0 | 0 | 3.2 |
| 9 | 0 | 3.3 | 6.9 | 0 | 3.5 | 11 | 11 | 7.2 | .1 | 0 | 0 | 0 |
| 10 | 0 | 4.2 | 7.2 | 0 | 8.0 | 10 | 3.1 | 7.9 | .2 | 0 | 4.0 | 0 |
| 11 | 0 | 3.6 | 0 | 0 | 8.0 | 6.9 | 7.5 | 6.2 | .2 | 0 | 3.0 | 6.4 |
| 12 | 0 | 3.6 | 0 | 0 | 2.0 | 5.2 | 3.2 | 5.4 | .2 | 0 | 4.3 | 6.3 |
| 13 | 0 | 4.5 | 0 | 0 | 0 | 4.8 | 2.8 | 4.8 | 6.0 | 0 | 2.8 | 1.3 |
| 14 | 0 | 4.0 | 0 | 0 | 0 | 6.6 | 2.2 | 5.0 | 4.6 | 0 | .1 | 0 |
| 15 | 0 | 2.6 | 0 | 0 | 0 | 9.4 | 6.8 | 5.0 | 5.1 | 0 | 2.6 | 0 |
| 16 | 0 | 4.1 | 0 | 0 | 0 | 10 | 3.2 | 4.8 | 6.2 | 0 | 15 | 0 |
| 17 | 0 | 1.0 | 0 | 0 | 0 | 6.6 | 0 | 7.2 | 2.0 | 0 | 1.8 | 0 |
| 18 | 4.5 | 1.0 | 0 | 0 | 3.3 | 1.0 | 0 | 9.6 | .9 | 0 | 8.2 | 0 |
| 19 | 5.2 | 1.5 | 0 | 0 | 3.1 | 1.9 | 0 | 9.5 | .5 | 0 | 0 | 0 |
| 20 | 3.9 | 1.7 | 0 | 0 | 2.8 | 6.1 | 0 | 5.6 | .1 | 0 | 0 | 0 |
| 21 | 5.6 | 1.7 | 0 | 0 | 2.1 | 7.5 | 0 | 4.7 | .2 | 3.1 | 0 | 0 |
| 22 | 4.2 | 1.1 | 0 | 0 | 2.1 | 8.6 | 0 | 3.1 | 0 | .6 | 0 | 0 |
| 23 | 4.2 | 1.0 | 0 | 0 | 4.9 | 2.5 | 0 | 2.1 | .6 | .3 | 0 | 0 |
| 24 | 4.5 | 1.5 | 0 | 0 | 3.8 | 8.2 | 0 | 4.8 | .6 | 0 | 0 | 1.1 |
| 25 | 3.9 | 1.1 | 0 | 0 | 4.0 | 5.5 | 1.0 | 1.4 | 0 | 1.1 | 0 | 1.1 |
| 26 | 5.0 | 1.6 | 0 | 0 | 2.6 | 7.2 | 3.2 | .6 | 0 | 6.7 | 0 | 1.0 |
| 27 | 4.5 | .7 | 0 | 0 | 2.3 | 8.4 | 4.6 | .5 | 0 | 7.6 | 0 | .4 |
| 28 | 5.4 | 1.0 | 0 | .8 | 6.9 | 7.2 | 2.5 | .5 | 0 | 13 | 0 | 0 |
| 29 | 7.5 | 1.1 | 0 | 2.0 | ------- | 6.7 | 3.4 | .6 | 0 | 9.5 | 0 | 0 |
| 30 | 4.6 | .6 | 0 | 0 | ------- | 7.0 | .1 | .2 | 0 | 6.8 | 0 | 0 |
| 31 | 1.5 | ------- | 0 | 0 | ------- | 6.6 | ------- | .2 | ------- | 4.2 | 0 | ------- |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 7.5 | 0 | 2.13 | 131 |
| November | 4.5 | 0 | 1.98 | 118 |
| December | 7.2 | 0 | 1.33 | 81.8 |
| January | 2.0 | 0 | .09 | 5.5 |
| February | 8.0 | 0 | 2.13 | 118 |
| March | 11 | 1.0 | 6.86 | 422 |
| April | 12 | 0 | 3.91 | 233 |
| May | 9.6 | .2 | 3.53 | 217 |
| June | 6.2 | 0 | 1.10 | 65.5 |
| July | 13 | 0 | 2.05 | 126 |
| August | 15 | 0 | 2.11 | 130 |
| September | 8.9 | 0 | 1.52 | 90.4 |
| The year | 15 | 0 | 2.40 | 1,740 |

### SAN JOSE CANAL NEAR SOLOMONSVILLE, ARIZ.

LOCATION.—Water-stage recorder in NW. ¼ NE. ¼ sec. 10, T. 7 S., R. 27 E., 2 miles below intake and 4 miles east of Solomonsville.

RECORDS AVAILABLE.—April, 1914, to September, 1915; December, 1920, to September, 1927.

REMARKS.—Records good. Diversions from canal above station. Intake on left side of Gila River in SW. ¼ sec. 36, T. 6 S., R. 27 E. Water used for irrigation near Solomonsville and Safford.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | 22 | 36 | 28 | 0 | 70 | 91 | 90 | 24 | 28 | 90 | 51 |
| 2 | 8.5 | 12 | 33 | 30 | 0 | 64 | 91 | 91 | 26 | 25 | 82 | 40 |
| 3 | 16 | 28 | 33 | 31 | 0 | 63 | 96 | 91 | 26 | 22 | 87 | 31 |
| 4 | 25 | 42 | 37 | 31 | 25 | 57 | 96 | 87 | 24 | 27 | 76 | 36 |
| 5 | 37 | 40 | 38 | 31 | 40 | 61 | 104 | 78 | 23 | 48 | 65 | 32 |
| 6 | 39 | 34 | 28 | 32 | 35 | 62 | 101 | 79 | 24 | 49 | 91 | 33 |
| 7 | 39 | 32 | 16 | 41 | 44 | 61 | 104 | 82 | 25 | 16 | 82 | 33 |
| 8 | 45 | 28 | 20 | 48 | 52 | 67 | 103 | 85 | 25 | 71 | 72 | 39 |
| 9 | 45 | 24 | 30 | 51 | 58 | 75 | 98 | 85 | 24 | 78 | 81 | 37 |
| 10 | 44 | 23 | 34 | 52 | 62 | 66 | 101 | 76 | 27 | 79 | 68 | 48 |
| 11 | 36 | 22 | 31 | 48 | 59 | 51 | 95 | 67 | 26 | 72 | 70 | 48 |
| 12 | 38 | 21 | 26 | 45 | 62 | 42 | 95 | 58 | 34 | 66 | 76 | 33 |
| 13 | 41 | 20 | 23 | 46 | 66 | 47 | 99 | 55 | 28 | 12 | 76 | 0 |
| 14 | 41 | 19 | 24 | 46 | 64 | 51 | 93 | 50 | 29 | 13 | 62 | 0 |
| 15 | 36 | 19 | 31 | 52 | 62 | 53 | 90 | 52 | 31 | 53 | 52 | 20 |
| 16 | 33 | 17 | 29 | 53 | 61 | 62 | 88 | 52 | 29 | 58 | 56 | 36 |
| 17 | 33 | 17 | 24 | 52 | 55 | 78 | 85 | 49 | 27 | 51 | 71 | 39 |
| 18 | 31 | 16 | 21 | 58 | 55 | 81 | 91 | 47 | 27 | 45 | 79 | 29 |
| 19 | 30 | 15 | 19 | 61 | 55 | 88 | 95 | 46 | 24 | 34 | 54 | 40 |
| 20 | 27 | 15 | 18 | 71 | 49 | 88 | 82 | 45 | 27 | 30 | 0 | 38 |
| 21 | 26 | 14 | 19 | 78 | 49 | 88 | 84 | 39 | 27 | 27 | 0 | 40 |
| 22 | 25 | 12 | 18 | 76 | 50 | 85 | 78 | 36 | 19 | 27 | 0 | 46 |
| 23 | 24 | 12 | 19 | 62 | 50 | 88 | 76 | 36 | 29 | 32 | 0 | 42 |
| 24 | 25 | 11 | 19 | 61 | 49 | 90 | 71 | 34 | 27 | 32 | 19 | 42 |
| 25 | 25 | 18 | 17 | 78 | 57 | 91 | 75 | 33 | 26 | 40 | 81 | 45 |
| 26 | 22 | 29 | 16 | 84 | 56 | 91 | 78 | 28 | 27 | 51 | 84 | 46 |
| 27 | 20 | 28 | 14 | 74 | 50 | 90 | 88 | 23 | 27 | 62 | 69 | 51 |
| 28 | 20 | 33 | 13 | 64 | 63 | 88 | 88 | 24 | 24 | 88 | 44 | 62 |
| 29 | 27 | 34 | 12 | 48 | ------- | 91 | 90 | 24 | 27 | 96 | 64 | 55 |
| 30 | 36 | 35 | 10 | 0 | ------- | 82 | 91 | 24 | 31 | 96 | 72 | 48 |
| 31 | 31 | ------- | 17 | 0 | ------- | 88 | ------- | 25 | ------- | 85 | 66 | ------- |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 45 | 0 | 29.9 | 1,840 |
| November | 42 | 11 | 23.1 | 1,370 |
| December | 38 | 10 | 23.4 | 1,440 |
| January | 84 | 0 | 49.4 | 3,040 |
| February | 66 | 0 | 47.4 | 2,630 |
| March | 91 | 42 | 72.9 | 4,480 |
| April | 104 | 71 | 90.6 | 5,390 |
| May | 91 | 23 | 54.5 | 3,350 |
| June | 34 | 19 | 26.5 | 1,580 |
| July | 96 | 12 | 48.8 | 3,000 |
| August | 91 | 0 | 60.9 | 3,740 |
| September | 62 | 0 | 38.0 | 2,260 |
| The year | 104 | 0 | 47.1 | 34,100 |

### MONTEZUMA CANAL NEAR SOLOMONSVILLE, ARIZ.

LOCATION.—Water-stage recorder in SE. ¼ NW. ¼ sec. 17, T. 7 S., R. 27 E., 1 mile below intake and 2 miles east of Solomonsville.

RECORDS AVAILABLE.—April, 1914, to September, 1915; December, 1920, to September, 1927.

REMARKS.—Records good. Intake on left side of Gila River in NE. ¼ sec. 17, T. 7 S., R. 27 E. Water used for irrigation near Solomonsville and Safford.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 46 | 46 | 37 | 52 | 30 | 94 | 101 | 115 | 33 | 28 | 110 | 50 |
| 2 | 47 | 44 | 37 | 52 | 71 | 92 | 106 | 117 | 33 | 29 | 100 | 43 |
| 3 | 50 | 41 | 36 | 52 | 83 | 84 | 117 | 119 | 35 | 26 | 87 | 40 |
| 4 | 47 | 40 | 36 | 52 | 83 | 80 | 120 | 114 | 31 | 26 | 77 | 34 |
| 5 | 46 | 40 | 38 | 52 | 80 | 81 | 119 | 109 | 31 | 56 | 105 | 36 |
| 6 | 45 | 40 | 42 | 52 | 79 | 79 | 118 | 110 | 33 | 67 | 108 | 30 |
| 7 | 43 | 40 | 42 | 54 | 78 | 76 | 116 | 118 | 33 | 74 | 90 | 25 |
| 8 | 43 | 40 | 51 | 55 | 76 | 71 | 118 | 124 | 31 | 84 | 98 | 28 |
| 9 | 44 | 39 | 60 | 54 | 75 | 64 | 119 | 122 | 30 | 92 | 109 | 40 |
| 10 | 43 | 39 | 61 | 53 | 74 | 63 | 115 | 120 | 31 | 81 | 114 | 66 |
| 11 | 41 | 39 | 59 | 53 | 73 | 77 | 114 | 110 | 34 | 71 | 109 | 61 |
| 12 | 53 | 40 | 58 | 53 | 74 | 84 | 113 | 87 | 40 | 75 | 119 | 60 |
| 13 | 64 | 38 | 56 | 53 | 77 | 85 | 115 | 74 | 40 | 42 | 98 | 40 |
| 14 | 65 | 38 | 56 | 52 | 84 | 83 | 111 | 68 | 42 | 0 | 67 | 95 |
| 15 | 63 | 38 | 59 | 52 | 87 | 90 | 110 | 67 | 37 | 40 | 58 | 77 |
| 16 | 63 | 37 | 59 | 51 | 102 | 99 | 111 | 69 | 34 | 71 | 61 | 43 |
| 17 | 63 | 37 | 57 | 50 | 101 | 107 | 114 | 63 | 30 | 56 | 90 | 115 |
| 18 | 63 | 37 | 55 | 68 | 49 | 109 | 118 | 64 | 31 | 38 | 70 | 136 |
| 19 | 63 | 37 | 55 | 78 | 72 | 107 | 127 | 59 | 32 | 37 | 88 | 113 |
| 20 | 55 | 39 | 55 | 78 | 77 | 102 | 121 | 55 | 28 | 32 | 103 | 113 |
| 21 | 48 | 41 | 58 | 77 | 77 | 97 | 117 | 50 | 26 | 24 | 96 | 74 |
| 22 | 48 | 40 | 57 | 76 | 71 | 97 | 118 | 45 | 24 | 14 | 108 | 16 |
| 23 | 47 | 40 | 57 | 32 | 67 | 100 | 116 | 41 | 22 | 17 | 88 | 13 |
| 24 | 49 | 40 | 57 | 0 | 80 | 92 | 116 | 41 | 23 | 28 | 88 | 74 |
| 25 | 56 | 40 | 55 | 0 | 94 | 90 | 115 | 38 | 21 | 52 | 113 | 114 |
| 26 | 55 | 38 | 55 | 0 | 95 | 106 | 115 | 37 | 23 | 59 | 83 | 115 |
| 27 | 54 | 37 | 54 | 0 | 96 | 116 | 114 | 36 | 35 | 97 | 74 | 101 |
| 28 | 43 | 37 | 54 | 0 | 96 | 120 | 115 | 33 | 30 | 127 | 82 | 80 |
| 29 | 33 | 37 | 53 | 0 | ------- | 98 | 118 | 30 | 25 | 115 | 65 | 59 |
| 30 | 37 | 37 | 53 | 0 | ------- | 104 | 118 | 30 | 27 | 117 | 60 | 50 |
| 31 | 41 | ------- | 53 | 0 | ------- | 96 | ------- | 30 | ------- | 109 | 57 | ------ |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 65 | 33 | 50.3 | 3,090 |
| November | 46 | 37 | 39.2 | 2,330 |
| December | 61 | 36 | 52.1 | 3,200 |
| January | 78 | 0 | 42.0 | 2,580 |
| February | 102 | 30 | 78.6 | 4,370 |
| March | 120 | 63 | 91.7 | 5,640 |
| April | 127 | 101 | 116 | 6,900 |
| May | 124 | 30 | 74.0 | 4,550 |
| June | 42 | 21 | 30.8 | 1,830 |
| July | 127 | 0 | 57.5 | 3,540 |
| August | 119 | 57 | 89.5 | 5,500 |
| September | 136 | 13 | 64.7 | 3,850 |
| The year | 136 | 0 | 65.4 | 47,400 |

### UNION CANAL NEAR SOLOMONSVILLE, ARIZ.

LOCATION.—Water-stage recorder in SE. ¼ NE. ¼ sec. 14, T. 7 S., R. 26 E., 1¾ miles below intake and 1½ miles northwest of Solomonsville.

RECORDS AVAILABLE.—April, 1914, to September, 1915; January, 1921, to September, 1927.

REMARKS.—Records good. Discharge interpolated or estimated October 1–4, 7, December 7, January 27–29, May 2, 3, June 27, July 7–9, 22, August 14, 15, 30, 31, and September 1, 8–17. Intake on left side of Gila River in NW. ¼ sec. 18, T. 7 S., R. 27 E. Water used for irrigation near Safford and Thatcher.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 73 | 57 | 48 | 0 | 73 | 167 | 136 | 28 | 18 | 128 | 55 |
| 2 | | 70 | 56 | 47 | 0 | 73 | 169 | 137 | 20 | 4.8 | 117 | 59 |
| 3 | 50 | 68 | 55 | 48 | 14 | 77 | 174 | 148 | 18 | 1.6 | 74 | 38 |
| 4 | | 65 | 59 | 50 | 61 | 88 | 172 | 146 | 21 | 1.4 | 87 | 33 |
| 5 | 78 | 61 | 64 | 50 | 93 | 104 | 169 | 137 | 22 | 47 | 128 | 27 |
| 6 | 75 | 61 | 64 | 52 | 105 | 108 | 158 | 123 | 19 | 132 | 122 | 25 |
| 7 | 68 | 61 | 37 | 55 | 102 | 127 | 154 | 125 | 16 | 124 | 107 | 33 |
| 8 | 85 | 61 | 39 | 55 | 100 | 133 | 152 | 124 | 13 | 115 | 124 | 35 |
| 9 | 74 | 61 | 42 | 58 | 102 | 127 | 149 | 122 | 12 | 107 | 97 | 50 |
| 10 | 75 | 63 | 43 | 60 | 95 | 128 | 152 | 114 | 9.6 | 98 | 126 | 50 |
| 11 | 66 | 61 | 41 | 65 | 86 | 122 | 154 | 97 | 18 | 69 | 103 | 50 |
| 12 | 52 | 60 | 31 | 68 | 91 | 132 | 154 | 92 | 40 | 68 | 97 | 0 |
| 13 | 53 | 62 | 19 | 69 | 98 | 134 | 159 | 94 | 66 | 126 | 77 | 0 |
| 14 | 75 | 75 | 50 | 70 | 108 | 138 | 160 | 95 | 56 | 124 | 60 | 0 |
| 15 | 61 | 78 | 53 | 69 | 99 | 142 | 150 | 84 | 42 | 122 | 35 | 0 |
| 16 | 54 | 73 | 51 | 68 | 102 | 135 | 145 | 75 | 33 | 72 | 65 | 0 |
| 17 | 57 | 73 | 48 | 78 | 89 | 138 | 145 | 73 | 28 | 42 | 120 | 0 |
| 18 | 60 | 70 | 52 | 85 | 82 | 132 | 151 | 69 | 20 | 35 | 113 | 0 |
| 19 | 75 | 70 | 56 | 88 | 98 | 129 | 158 | 65 | 15 | 29 | 119 | 0 |
| 20 | 77 | 69 | 57 | 95 | 66 | 135 | 142 | 66 | 11 | 28 | 121 | 25 |
| 21 | 81 | 68 | 57 | 101 | 48 | 132 | 137 | 70 | 11 | 19 | 123 | 36 |
| 22 | 80 | 66 | 55 | 100 | 42 | 150 | 135 | 63 | 7.1 | 15 | 87 | 5 |
| 23 | 73 | 66 | 53 | 97 | 41 | 156 | 135 | 55 | 3.0 | 11 | 59 | 0 |
| 24 | 61 | 61 | 53 | 96 | 48 | 146 | 137 | 49 | .7 | 11 | 62 | 17 |
| 25 | 62 | 57 | 50 | 91 | 57 | 146 | 132 | 48 | 1.4 | 31 | 80 | 53 |
| 26 | 65 | 51 | 47 | 90 | 61 | 158 | 137 | 48 | .3 | 29 | 94 | 39 |
| 27 | 62 | 50 | 47 | 94 | 67 | 148 | 141 | 44 | 4.0 | 66 | 115 | 33 |
| 28 | 66 | 55 | 40 | 98 | 74 | 145 | 137 | 40 | 9.3 | 120 | 106 | 52 |
| 29 | 65 | 55 | 39 | 102 | ------- | 157 | 135 | 35 | 12 | 122 | 78 | 66 |
| 30 | 85 | 57 | 44 | 40 | ------- | 160 | 136 | 31 | 14 | 148 | 60 | 78 |
| 31 | 70 | ------- | 51 | 0 | ------- | 162 | ------- | 34 | ------- | 140 | 50 | ------- |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 85 | ---------- | 66.3 | 4,080 |
| November | 78 | 50 | 64.0 | 3,810 |
| December | 64 | 19 | 48.7 | 2,990 |
| January | 102 | 0 | 70.5 | 4,330 |
| February | 108 | 0 | 72.5 | 4,030 |
| March | 162 | 73 | 130 | 7,990 |
| April | 174 | 132 | 150 | 8,930 |
| May | 148 | 31 | 85.1 | 5,230 |
| June | 66 | .3 | 19.0 | 1,130 |
| July | 148 | 1.4 | 67.0 | 4,120 |
| August | 128 | 35 | 94.6 | 5,820 |
| September | 78 | 0 | 28.6 | 1,700 |
| The year | 174 | 0 | 76.6 | 54,200 |

### GRAHAM CANAL NEAR SAFFORD, ARIZ.

LOCATION.—Staff gage in NE. ¼ SW. ¼ sec. 5, T. 7 S., R. 26 E., 1 mile below intake and 2 miles north of Safford.

RECORDS AVAILABLE.—October, 1914, to September, 1915; December, 1920, to September, 1927.

REMARKS.—Records good. One diversion from canal above gage. Intake on right side of Gila River in NW. ¼ sec. 9, T. 7 S., R. 26 E. Water used for irrigation near Safford.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 31 | 46 | 31 | 53 | 58 | 67 | 60 | 16 | 13 | 18 | 35 |
| 2 | 20 | 26 | 46 | 31 | 24 | 53 | 74 | 57 | 14 | 10 | 18 | 35 |
| 3 | 0 | 35 | 44 | 31 | 0 | 42 | 69 | 55 | 11 | 9.5 | 19 | 35 |
| 4 | 0 | 43 | 45 | 32 | 0 | 33 | 63 | 55 | 8.2 | 10 | 33 | 33 |
| 5 | 11 | 46 | 47 | 32 | 42 | 21 | 60 | 51 | 9.0 | 11 | 43 | 32 |
| 6 | 43 | 44 | 48 | 32 | 56 | 22 | 61 | 48 | 9.0 | 41 | 64 | 32 |
| 7 | 39 | 45 | 43 | 32 | 49 | 34 | 61 | 43 | 9.5 | 53 | 65 | 32 |
| 8 | 28 | 45 | 42 | 32 | 49 | 61 | 55 | 42 | 9.8 | 60 | 67 | 31 |
| 9 | 30 | 45 | 40 | 32 | 52 | 58 | 58 | 38 | 9.8 | 52 | 55 | 43 |
| 10 | 52 | 45 | 37 | 31 | 45 | 46 | 60 | 32 | 11 | 16 | 68 | 98 |
| 11 | 46 | 44 | 37 | 30 | 43 | 48 | 60 | 30 | 20 | 11 | 56 | 66 |
| 12 | 37 | 44 | 37 | 29 | 45 | 48 | 62 | 27 | 17 | 10 | 54 | 65 |
| 13 | 26 | 37 | 39 | 31 | 51 | 45 | 62 | 25 | 14 | 54 | 44 | 84 |
| 14 | 31 | 30 | 38 | 32 | 69 | 50 | 63 | 23 | 12 | 51 | 34 | 0 |
| 15 | 30 | 32 | 38 | 33 | 76 | 68 | 63 | 18 | 11 | 41 | 29 | 16 |
| 16 | 41 | 33 | 34 | 33 | 74 | 66 | 53 | 17 | 12 | 17 | 0 | 43 |
| 17 | 43 | 36 | 32 | 33 | 61 | 59 | 53 | 16 | 13 | 14 | 0 | 36 |
| 18 | 44 | 42 | 30 | 33 | 53 | 58 | 56 | 8.3 | 12 | 17 | 0 | 28 |
| 19 | 27 | 41 | 32 | 33 | 49 | 57 | 61 | 0 | 9.3 | 13 | 0 | 40 |
| 20 | 25 | 42 | 35 | 33 | 40 | 57 | 65 | 18 | 8.8 | 10 | 30 | 32 |
| 21 | 25 | 42 | 35 | 33 | 45 | 57 | 63 | 18 | 6.7 | 8.0 | 45 | 23 |
| 22 | 23 | 42 | 34 | 33 | 61 | 51 | 64 | 18 | 6.2 | 11 | 65 | 8.4 |
| 23 | 25 | 41 | 33 | 39 | 61 | 36 | 67 | 16 | 8.0 | 11 | 30 | 0 |
| 24 | 26 | 40 | 33 | 45 | 59 | 50 | 70 | 16 | 9.5 | 8.5 | 94 | 0 |
| 25 | 23 | 43 | 34 | 48 | 42 | 62 | 69 | 16 | 4.6 | 13 | 73 | 0 |
| 26 | 18 | 42 | 32 | 51 | 55 | 57 | 67 | 16 | 11 | 18 | 45 | 21 |
| 27 | 16 | 44 | 31 | 49 | 58 | 56 | 63 | 17 | 12 | 49 | 70 | 43 |
| 28 | 18 | 46 | 30 | 48 | 62 | 53 | 63 | 15 | 12 | 35 | 42 | 41 |
| 29 | 22 | 44 | 30 | 52 | ------ | 49 | 63 | 23 | 12 | 17 | 33 | 40 |
| 30 | 53 | 45 | 30 | 55 | ------ | 48 | 63 | 22 | 13 | 48 | 39 | 39 |
| 31 | 32 | ------ | 30 | 55 | ------ | 63 | ------ | 18 | ------ | 48 | 36 | ------ |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 53 | 0 | 28.2 | 1,730 |
| November | 46 | 26 | 40.5 | 2,410 |
| December | 48 | 30 | 36.8 | 2,260 |
| January | 55 | 29 | 36.9 | 2,270 |
| February | 76 | 0 | 19.1 | 2,730 |
| March | 68 | 21 | 50.5 | 3,110 |
| April | 74 | 53 | 62.6 | 3,720 |
| May | 60 | 0 | 27.7 | 1,700 |
| June | 20 | 4.6 | 11.0 | 655 |
| July | 60 | 8.0 | 25.2 | 1,550 |
| August | 94 | 0 | 40.9 | 2,510 |
| September | 98 | 0 | 34.4 | 2,050 |
| The year | 98 | 0 | 36.9 | 26,700 |

### SMITHVILLE CANAL NEAR THATCHER, ARIZ.

LOCATION.—Staff gage in NW. ¼ sec. 35, T. 6 S., R. 25 E., three-quarters of a mile below intake and 1½ miles north of Thatcher.

RECORDS AVAILABLE.—October, 1914, to September, 1915; December, 1920, to September, 1927.

REMARKS.—Records good. Intake on left side of Gila River in NE. ¼ sec. 35, T. 6 S., R. 25 E. Water used for irrigation near Pima.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | 42 | 25 | 20 | 47 | 35 | 45 | 46 | 15 | 8.1 | 26 | 2.8 |
| 2 | 4.5 | 44 | 22 | 21 | 48 | 34 | 52 | 46 | 16 | 7.7 | 19 | 9.5 |
| 3 | 14 | 42 | 22 | 27 | 47 | 34 | 54 | 46 | 13 | 8.5 | 12 | 5.3 |
| 4 | 0 | 40 | 24 | 34 | 47 | 32 | 55 | 47 | 13 | 10 | 10 | 11 |
| 5 | 0 | 39 | 33 | 35 | 46 | 33 | 56 | 42 | 6.0 | 38 | 20 | 11 |
| 6 | 0 | 43 | 34 | 34 | 44 | 34 | 55 | 27 | 5.5 | 37 | 18 | 12 |
| 7 | 2.7 | 49 | 34 | 33 | 45 | 31 | 61 | 27 | 5.5 | 38 | 22 | 12 |
| 8 | 3.0 | 48 | 34 | 35 | 39 | 32 | 54 | 39 | 12 | 26 | 22 | 9.7 |
| 9 | 1.1 | 47 | 37 | 36 | 40 | 31 | 52 | 48 | 5.9 | 10 | 26 | 17 |
| 10 | 1.5 | 48 | 42 | 36 | 33 | 25 | 55 | 49 | 5.5 | 2.7 | 22 | 17 |
| 11 | .2 | 49 | 28 | 38 | 35 | 28 | 56 | 41 | 28 | 13 | 25 | 31 |
| 12 | 1.0 | 47 | 27 | 41 | 37 | 20 | 53 | 27 | 19 | 23 | 21 | 0 |
| 13 | 11 | 49 | 26 | 27 | 43 | 20 | 51 | 32 | 19 | 44 | 12 | 0 |
| 14 | 41 | 46 | 26 | 46 | 44 | 21 | 45 | 39 | 20 | 26 | 11 | 0 |
| 15 | 44 | 43 | 30 | 27 | 44 | 22 | 46 | 41 | 18 | 27 | 13 | 0 |
| 16 | 30 | 41 | 29 | 38 | 50 | 33 | 32 | 34 | 13 | 21 | 25 | 0 |
| 17 | 28 | 39 | 34 | 39 | 41 | 36 | 41 | 35 | 14 | 17 | 26 | 0 |
| 18 | 26 | 36 | 32 | 36 | 27 | 31 | 28 | 33 | 5.1 | 25 | 26 | 0 |
| 19 | 22 | 36 | 30 | 31 | 22 | 31 | 28 | 24 | 15 | 17 | 20 | 0 |
| 20 | 36 | 35 | 29 | 32 | 21 | 31 | 29 | 24 | 13 | 0 | 20 | 0 |
| 21 | 36 | 35 | 23 | 19 | 21 | 31 | 34 | 25 | 13 | 2.5 | 21 | 27 |
| 22 | 40 | 35 | 23 | 16 | 27 | 28 | 34 | 27 | 5.4 | 10 | 23 | 22 |
| 23 | 34 | 33 | 23 | 32 | 38 | 24 | 36 | 27 | 3.8 | 10 | 16 | 20 |
| 24 | 35 | 33 | 23 | 33 | 35 | 26 | 39 | 24 | 5.0 | 11 | 3.0 | 20 |
| 25 | 35 | 31 | 23 | 24 | 36 | 31 | 41 | 21 | 3.9 | 9.5 | 1.8 | 15 |
| 26 | 34 | 31 | 23 | 41 | 40 | 30 | 41 | 21 | 7.3 | 19 | 2.3 | 11 |
| 27 | 36 | 25 | 24 | 43 | 55 | 27 | 39 | 24 | 7.7 | 39 | 2.3 | 6.5 |
| 28 | 36 | 19 | 22 | 44 | 39 | 28 | 43 | 22 | 8.5 | 41 | 2.5 | 2.2 |
| 29 | 33 | 25 | 22 | 41 | ------ | 27 | 45 | 17 | 11 | 19 | 4.3 | 3.0 |
| 30 | 54 | 24 | 22 | 46 | ------ | 32 | 44 | 16 | 9.7 | 34 | 4.8 | .7 |
| 31 | 46 | ------ | 20 | 48 | ------ | 32 | ------ | 15 | ------ | 33 | 3.4 | ------ |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 54 | 0 | 22.1 | 1,360 |
| November | 49 | 19 | 38.5 | 2,290 |
| December | 42 | 20 | 27.3 | 1,680 |
| January | 48 | 16 | 33.8 | 2,080 |
| February | 55 | 21 | 39.0 | 2,170 |
| March | 36 | 20 | 29.4 | 1,810 |
| April | 61 | 28 | 44.8 | 2,670 |
| May | 49 | 15 | 31.8 | 1,960 |
| June | 28 | 3.8 | 11.2 | 666 |
| July | 44 | 0 | 20.2 | 1,240 |
| August | 26 | 1.8 | 15.5 | 953 |
| September | 31 | 0 | 8.86 | 527 |
| The year | 61 | 0 | 26.8 | 19,400 |

### DODGE-NEVADA CANAL NEAR PIMA, ARIZ.

LOCATION.—Staff gage in NW. ¼ SE. ¼ sec. 18, T. 6 S., R. 25 E., 1 mile below intake and 1½ miles north of Pima.

RECORDS AVAILABLE.—December, 1920, to September, 1927.

REMARKS.—Records good. One diversion from canal above gage. Intake on left side of Gila River in NW. ¼ sec. 20, T. 6 S., R. 25 E. Water used for irrigation near Pima.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.1 | 27 | 22 | 20 | 29 | 26 | 47 | 32 | 15 | 9.3 | 29 | 27 |
| 2 | 17 | 24 | 23 | 17 | 28 | 29 | 55 | 30 | 15 | 7.7 | 23 | 23 |
| 3 | 12 | 16 | 25 | 18 | 29 | 26 | 32 | 30 | 16 | 8.6 | 30 | 23 |
| 4 | 1.6 | 16 | 26 | 18 | 32 | 24 | 0 | 27 | 16 | 11 | 27 | 19 |
| 5 | .8 | 9.3 | 22 | 19 | 33 | 24 | 13 | 28 | 15 | 21 | 42 | 19 |
| 6 | .6 | 7.1 | 19 | 18 | 30 | 21 | 36 | 31 | 13 | 44 | 50 | 17 |
| 7 | 2.0 | 5.9 | 23 | 20 | 26 | 20 | 47 | 35 | 13 | 52 | 39 | 17 |
| 8 | 9.9 | 3.6 | 32 | 19 | 20 | 23 | 36 | 46 | 14 | 17 | 38 | 17 |
| 9 | 5.6 | 3.3 | 34 | 19 | 17 | 17 | 34 | 28 | 14 | 1.2 | 42 | 17 |
| 10 | 7.7 | 2.4 | 35 | 20 | 17 | 15 | 39 | 24 | 14 | .6 | 47 | 30 |
| 11 | 8.3 | 2.6 | 34 | 20 | 15 | 20 | 35 | 23 | 16 | .2 | 36 | 31 |
| 12 | 12 | 3.3 | 34 | 20 | 17 | 15 | 38 | 30 | 15 | 0 | 40 | 12 |
| 13 | 0 | 17 | 34 | 23 | 20 | 17 | 22 | 24 | 14 | .9 | 30 | 3.8 |
| 14 | 11 | 28 | 33 | 21 | 12 | 16 | 24 | 24 | 17 | 15 | 0 | .7 |
| 15 | 18 | 18 | 32 | 20 | 0 | 18 | 41 | 34 | 14 | 20 | 0 | .1 |
| 16 | 17 | 25 | 33 | 22 | .8 | 33 | 43 | 25 | 11 | 9.3 | 17 | 0 |
| 17 | 16 | 29 | 32 | 22 | 0 | 46 | 46 | 31 | 12 | 9.3 | 48 | 3.0 |
| 18 | 14 | 30 | 29 | 22 | 2.8 | 45 | 35 | 25 | 11 | 9.9 | 63 | 6.8 |
| 19 | 14 | 29 | 26 | 20 | 1.2 | 37 | 23 | 22 | 8.3 | 5.6 | 32 | 25 |
| 20 | 17 | 29 | 24 | 21 | 0 | 35 | 30 | 20 | 11 | 5.3 | 14 | 21 |
| 21 | 16 | 29 | 26 | 20 | 7.7 | 20 | 32 | 19 | 9.9 | 4.8 | 13 | 16 |
| 22 | 15 | 29 | 29 | 21 | 15 | 24 | 35 | 19 | 11 | 5.0 | 16 | 11 |
| 23 | 12 | 29 | 24 | 22 | 17 | 23 | 34 | 19 | 9.3 | 5.0 | 14 | 12 |
| 24 | 11 | 28 | 22 | 21 | 24 | 12 | 36 | 21 | 9.3 | 5.9 | 5.0 | 6.2 |
| 25 | 10 | 26 | 22 | 22 | 35 | 12 | 39 | 17 | 10 | 7.4 | 3.3 | 0 |
| 26 | 10 | 25 | 27 | 21 | 29 | 11 | 45 | 20 | 9.3 | 9.0 | 39 | 0 |
| 27 | 9.6 | 23 | 26 | 21 | 25 | 8.6 | 39 | 18 | 9.6 | 71 | 32 | .5 |
| 28 | 8.6 | 22 | 22 | 20 | 22 | 5.0 | 41 | 19 | 11 | 57 | 27 | 0 |
| 29 | 7.7 | 21 | 19 | 21 | ------ | 1.0 | 27 | 21 | 10 | 30 | 18 | 0 |
| 30 | 21 | 22 | 19 | 28 | ------ | 4.3 | 13 | 15 | 7.7 | 33 | 17 | 0 |
| 31 | 21 | ------ | 17 | 26 | ------ | 42 | ------ | 15 | ------ | 30 | 23 | ------ |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 21 | 0 | 10.6 | 652 |
| November | 30 | 2.4 | 19.3 | 1,150 |
| December | 35 | 17 | 26.6 | 1,640 |
| January | 28 | 17 | 20.7 | 1,270 |
| February | 35 | 0 | 18.0 | 1,000 |
| March | 46 | 1.0 | 21.6 | 1,330 |
| April | 55 | 0 | 33.9 | 2,020 |
| May | 46 | 15 | 24.9 | 1,530 |
| June | 17 | 7.7 | 12.4 | 738 |
| July | 71 | 0 | 17.6 | 1,080 |
| August | 63 | 0 | 27.6 | 1,700 |
| September | 31 | 0 | 11.9 | 708 |
| The year | 71 | 0 | 20.5 | 14,800 |

### CURTIS-KEMPTON CANAL NEAR EDEN, ARIZ.

LOCATION.—Staff gage in SE. ¼ NE. ¼ sec. 4, T. 6 S., R. 24 E., 2 miles below intake and 1½ miles southeast of Eden.

RECORDS AVAILABLE.—December, 1920, to September, 1927.

REMARKS.—Records good. Diversions from canal above gage. Intake on right side of Gila River in NW. ¼ sec. 12, T. 6 S., R. 24 E. Water used for irrigation near Eden.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | 19 | 30 | 3.4 | 34 | 0 | 35 | 52 | 16 | 6.6 | 1.8 | 0 |
| 2 | 0 | 17 | 28 | 0 | 35 | 5.4 | 34 | 53 | 13 | 7.7 | 0 | 0 |
| 3 | 18 | 16 | 33 | 22 | 34 | 0 | 39 | 53 | 12 | 7.8 | 0 | 0 |
| 4 | 11 | 19 | 24 | 19 | 30 | 0 | 44 | 51 | 14 | 7.1 | 16 | 0 |
| 5 | 15 | 22 | 13 | 22 | 14 | 7.2 | 29 | 53 | 13 | 9.0 | 32 | 2.0 |
| 6 | 8.3 | 14 | 27 | 23 | 0 | 11 | 0 | 43 | 13 | 36 | 33 | 2.7 |
| 7 | 0 | 24 | 21 | 14 | 0 | 6.4 | 38 | 44 | 15 | 36 | 33 | 2.8 |
| 8 | 0 | 24 | 26 | 17 | 0 | 7.8 | 47 | 53 | 9.1 | 31 | 36 | 4.4 |
| 9 | 0 | 25 | 24 | 19 | 0 | 7.4 | 47 | 55 | 13 | 14 | 36 | 6.6 |
| 10 | 0 | 16 | 36 | 22 | 0 | 33 | 48 | 49 | 15 | 18 | 36 | 5.8 |
| 11 | .5 | 16 | 27 | 26 | 0 | 42 | 49 | 30 | 17 | 13 | 31 | 0 |
| 12 | 7.6 | 15 | 27 | 22 | 0 | 0 | 47 | 29 | 27 | 6.3 | 33 | 0 |
| 13 | 27 | 18 | 23 | 22 | 0 | 0 | 47 | 33 | 16 | 22 | 38 | 0 |
| 14 | 24 | 25 | 23 | 20 | 0 | 0 | 49 | 32 | 22 | 0 | 16 | 0 |
| 15 | 22 | 24 | 23 | 21 | 0 | 2.3 | 45 | 30 | 17 | 13 | 15 | 0 |
| 16 | 19 | 30 | 25 | 22 | 0 | 46 | 39 | 26 | 15 | 14 | 9.4 | 0 |
| 17 | 21 | 33 | 19 | 14 | 0 | 45 | 38 | 24 | 14 | 8.4 | 18 | 0 |
| 18 | 18 | 39 | 20 | 2.4 | 0 | 43 | 39 | 22 | 21 | 7.8 | 0 | 0 |
| 19 | 18 | 39 | 32 | 0 | 0 | 38 | 34 | 22 | 7.7 | 8.0 | 0 | 0 |
| 20 | 18 | 37 | 25 | 30 | 0 | 41 | 35 | 20 | 8.0 | 10 | 0 | 0 |
| 21 | 22 | 37 | 23 | 27 | 0 | 41 | 39 | 18 | 3.5 | 9.0 | 0 | 0 |
| 22 | 21 | 38 | 24 | 30 | 0 | 36 | 36 | 19 | 0 | 8.9 | 11 | 0 |
| 23 | 22 | 33 | 22 | 31 | 0 | 28 | 36 | 17 | 6.2 | 8.6 | 6.6 | 0 |
| 24 | 19 | 33 | 23 | 37 | 0 | 36 | 37 | 15 | 8.7 | 7.7 | .3 | 0 |
| 25 | 22 | 32 | 23 | 37 | 0 | 42 | 40 | 13 | 6.8 | 8.3 | 0 | 0 |
| 26 | 18 | 34 | 23 | 35 | 0 | 41 | 43 | 11 | 8.7 | 17 | 0 | 0 |
| 27 | 21 | 33 | 22 | 34 | 0 | 44 | 44 | 14 | 10 | 36 | 0 | 0 |
| 28 | 22 | 39 | 21 | 35 | 0 | 40 | 52 | 16 | 10 | 30 | 4.8 | 0 |
| 29 | 28 | 35 | 20 | 38 | ------ | 35 | 53 | 18 | 10 | 2.1 | 4.5 | 0 |
| 30 | 35 | 29 | 20 | 41 | ------ | 40 | 52 | 19 | 9.7 | 22 | 2.3 | 0 |
| 31 | 23 | ------ | 12 | 37 | ------ | 25 | ------ | 18 | ------ | 17 | 0 | ------ |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 35 | 0 | 15.5 | 953 |
| November | 39 | 14 | 27.2 | 1,620 |
| December | 36 | 12 | 23.8 | 1,400 |
| January | 41 | 0 | 23.3 | 1,430 |
| February | 35 | 0 | 5.2 | 289 |
| March | 46 | 0 | 24.0 | 1,480 |
| April | 53 | 0 | 40.5 | 2,410 |
| May | 55 | 11 | 30.7 | 1,890 |
| June | 27 | 0 | 12.4 | 738 |
| July | 36 | 0 | 14.3 | 879 |
| August | 38 | 0 | 13.3 | 818 |
| September | 6.6 | 0 | .81 | 48.2 |
| The year | 55 | 0 | 19.4 | 14,000 |

### FORT THOMAS CONSOLIDATED CANAL AT ASHURST, ARIZ.

LOCATION.—Staff gage in NE. ¼ SE. ¼ sec. 30, T. 5 S., R. 24 E., 2 miles below intake and 1 mile southeast of Ashurst.
RECORDS AVAILABLE.—December, 1920, to September, 1927.
REMARKS.—Records good. Discharge estimated April 27–29. Intake on left side of Gila River in NW. ¼ sec. 4, T. 6 S., R. 24 E. Water used for irrigation near Fort Thomas.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 30 | 4.0 | 36 | 65 | 51 | 59 | 35 | 92 | 8.0 | 3.2 | 67 | 19 |
| 2 | 39 | 0 | 41 | 63 | 60 | 57 | 39 | 87 | 7.6 | 5.8 | 51 | 22 |
| 3 | 43 | 0 | 47 | 64 | 66 | 57 | 41 | 74 | 7.8 | 6.6 | 34 | 22 |
| 4 | 34 | 0 | 50 | 64 | 68 | 73 | 39 | 65 | 7.8 | 18 | 29 | 23 |
| 5 | 22 | 0 | 58 | 65 | 71 | 68 | 37 | 43 | 8.0 | 10 | 48 | 21 |
| 6 | 19 | 0 | 73 | 62 | 72 | 63 | 35 | 26 | 8.0 | 73 | 69 | 18 |
| 7 | 8.4 | 0 | 69 | 61 | 72 | 51 | 27 | 29 | 8.2 | 69 | 74 | 16 |
| 8 | 13 | 0 | 57 | 62 | 70 | 28 | 24 | 42 | 8.0 | 0 | 77 | 13 |
| 9 | 12 | 0 | 47 | 62 | 68 | 32 | 24 | 49 | 8.7 | 0 | 77 | 60 |
| 10 | 12 | 0 | 46 | 61 | 65 | 36 | 24 | 42 | 9.1 | 0 | 90 | 75 |
| 11 | 12 | 36 | 46 | 61 | 65 | 44 | 24 | 27 | 14 | 20 | 88 | 60 |
| 12 | 14 | 38 | 47 | 62 | 60 | 46 | 39 | 22 | 21 | 29 | 83 | 92 |
| 13 | 51 | 28 | 49 | 60 | 73 | 43 | 72 | 19 | 10 | 47 | 64 | 0 |
| 14 | 64 | 24 | 53 | 58 | 36 | 53 | 83 | 18 | 9.8 | 50 | 40 | 0 |
| 15 | 68 | 17 | 55 | 60 | 0 | 72 | 84 | 17 | 8.4 | 20 | 35 | 0 |
| 16 | 68 | 17 | 66 | 66 | 0 | 74 | 79 | 16 | 7.8 | 14 | 47 | 0 |
| 17 | 49 | 17 | 70 | 54 | 0 | 76 | 72 | 15 | 7.2 | 16 | 84 | 0 |
| 18 | 46 | 54 | 71 | 64 | 0 | 78 | 77 | 15 | 7.2 | 12 | 77 | 0 |
| 19 | 40 | 63 | 71 | 64 | 0 | 69 | 85 | 14 | 7.4 | 9.5 | 80 | 0 |
| 20 | 47 | 66 | 60 | 58 | 0 | 67 | 87 | 7.8 | 7.0 | 6.2 | 109 | 0 |
| 21 | 58 | 56 | 71 | 38 | 0 | 65 | 89 | 7.8 | 10 | 5.4 | 84 | 25 |
| 22 | 53 | 51 | 80 | 25 | 23 | 67 | 88 | 7.8 | 16 | 4.1 | 65 | 33 |
| 23 | 51 | 52 | 78 | 39 | 47 | 68 | 90 | 9.3 | 4.3 | 44 | 65 | 25 |
| 24 | 51 | 45 | 77 | 42 | 54 | 71 | 90 | 8.0 | 3.9 | 0 | 56 | 0 |
| 25 | 51 | 41 | 76 | 52 | 62 | 70 | 90 | 8.0 | 2.5 | 0 | 56 | 0 |
| 26 | 51 | 41 | 69 | 46 | 66 | 58 | 88 | 8.0 | 2.3 | 0 | 70 | 0 |
| 27 | 50 | 40 | 70 | 41 | 66 | 50 | } | 8.2 | 6.6 | 0 | 71 | 0 |
| 28 | 36 | 36 | 69 | 41 | 62 | 56 | 90 | 8.2 | 3.5 | 0 | 74 | 0 |
| 29 | 47 | 34 | 72 | 42 | ------- | 51 | } | 8.0 | 6.6 | 0 | 77 | 0 |
| 30 | 64 | 37 | 66 | 45 | ------- | 41 | 93 | 8.0 | 2.9 | 68 | 23 | 0 |
| 31 | 64 | ------- | 66 | 48 | ------- | 34 | ------- | 8.0 | ------- | 73 | 16 | ------- |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 68 | 8.4 | 40.9 | 2,510 |
| November | 66 | 0 | 26.6 | 1,580 |
| December | 80 | 36 | 61.5 | 3,780 |
| January | 66 | 25 | 54.7 | 3,360 |
| February | 73 | 0 | 45.6 | 2,530 |
| March | 78 | 28 | 57.3 | 3,520 |
| April | 93 | 24 | 64.2 | 3,820 |
| May | 92 | 7.8 | 26.1 | 1,600 |
| June | 21 | 2.3 | 7.99 | 475 |
| July | 73 | 0 | 19.5 | 1,200 |
| August | 109 | 16 | 63.9 | 3,930 |
| September | 92 | 0 | 17.5 | 1,040 |
| The year | 109 | 0 | 40.6 | 29,300 |

### SAN PEDRO RIVER AT FAIRBANK, ARIZ.

LOCATION.—Staff gage in NW. ¼ sec. 3, T. 20 S., R. 21 E., unsurveyed, half a mile west of Fairbank and immediately below mouth of Babocomari River.
DRAINAGE AREA.—1,500 square miles.
RECORDS AVAILABLE.—October, 1926, to September, 1927. Numerous stations have been maintained in the past at various locations upstream.
EXTREMES.—Maximum discharge during year, 5,120 second-feet October 9 (gage height, 8.5 feet); minimum, 10 second-feet June 22 (gage height, 0.96 foot).
REMARKS.—Records fair. Discharge estimated or interpolated October 1–8 and 13–16. Diversions for irrigation above station.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 275 | 55 | 37 | 38 | 30 | 24 | 28 | 22 | 14 | 13 | 865 | 50 |
| 2 | 200 | 60 | 39 | 37 | 30 | 25 | 25 | 20 | 14 | 12 | 191 | 35 |
| 3 | 160 | 55 | 38 | 39 | 32 | 25 | 26 | 23 | 13 | 10 | 85 | 33 |
| 4 | 135 | 54 | 37 | 37 | 32 | 26 | 24 | 19 | 13 | 11 | 315 | 25 |
| 5 | 110 | 52 | 46 | 36 | 30 | 24 | 26 | 19 | 12 | 98 | 100 | 24 |
| 6 | 100 | 51 | 48 | 37 | 31 | 26 | 27 | 19 | 12 | 98 | 62 | 24 |
| 7 | 90 | 51 | 47 | 35 | 31 | 26 | 26 | 18 | 12 | 348 | 2,050 | 67 |
| 8 | 140 | 51 | 47 | 34 | 31 | 24 | 26 | 18 | 13 | 1,540 | 668 | 409 |
| 9 | 2,100 | 49 | 46 | 34 | 30 | 24 | 26 | 19 | 12 | 354 | 95 | 65 |
| 10 | 629 | 47 | 47 | 34 | 30 | 24 | 26 | 18 | 12 | 211 | 55 | 77 |
| 11 | 302 | 51 | 45 | 33 | 30 | 26 | 26 | 18 | 12 | 109 | 85 | 37 |
| 12 | 207 | 49 | 44 | 33 | 31 | 27 | 27 | 17 | 12 | 72 | 76 | 42 |
| 13 | 190 | 46 | 44 | 33 | 30 | 28 | 28 | 17 | 12 | 76 | 121 | 44 |
| 14 | 160 | 45 | 43 | 33 | 30 | 28 | 28 | 16 | 11 | 65 | 220 | 91 |
| 15 | 140 | 44 | 42 | 33 | 30 | 26 | 29 | 16 | 12 | 69 | 116 | 44 |
| 16 | 110 | 44 | 41 | 34 | 30 | 26 | 29 | 17 | 11 | 60 | 613 | 37 |
| 17 | 87 | 39 | 42 | 31 | 28 | 24 | 27 | 15 | 11 | 41 | 233 | 69 |
| 18 | 85 | 44 | 40 | 34 | 30 | 26 | 27 | 16 | 11 | 42 | 168 | 41 |
| 19 | 83 | 42 | 40 | 33 | 30 | 24 | 28 | 16 | 11 | 59 | 93 | 76 |
| 20 | 77 | 42 | 41 | 33 | 27 | 24 | 27 | 16 | 10 | 60 | 83 | 53 |
| 21 | 72 | 42 | 40 | 33 | 28 | 27 | 26 | 15 | 10 | 65 | 48 | 38 |
| 22 | 69 | 41 | 40 | 32 | 28 | 27 | 26 | 14 | 10 | 68 | 59 | 34 |
| 23 | 67 | 40 | 41 | 32 | 28 | 26 | 27 | 14 | 11 | 67 | 80 | 31 |
| 24 | 64 | 41 | 39 | 32 | 26 | 26 | 26 | 15 | 11 | 55 | 46 | 41 |
| 25 | 64 | 35 | 39 | 32 | 28 | 24 | 26 | 14 | 10 | 55 | 42 | 29 |
| 26 | 64 | 38 | 40 | 31 | 28 | 27 | 24 | 13 | 11 | 54 | 59 | 28 |
| 27 | 62 | 37 | 39 | 33 | 26 | 27 | 23 | 13 | 14 | 80 | 165 | 27 |
| 28 | 58 | 36 | 40 | 32 | 26 | 27 | 24 | 14 | 14 | 220 | 49 | 25 |
| 29 | 57 | 36 | 37 | 31 | ------ | 26 | 23 | 14 | 18 | 87 | 42 | 24 |
| 30 | 58 | 37 | 38 | 30 | ------ | 28 | 22 | 14 | 14 | 241 | 35 | 24 |
| 31 | 56 | ------ | 37 | 30 | ------ | 27 | ------ | 14 | ------ | 79 | 37 | ------ |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 2,100 | 56 | 196 | 12,100 |
| November | 60 | 35 | 45.1 | 2,680 |
| December | 48 | 37 | 41.4 | 2,550 |
| January | 39 | 30 | 33.5 | 2,060 |
| February | 32 | 26 | 29.3 | 1,630 |
| March | 28 | 24 | 25.8 | 1,590 |
| April | 29 | 22 | 26.1 | 1,550 |
| May | 23 | 13 | 16.5 | 1,010 |
| June | 18 | 10 | 12.1 | 720 |
| July | 1,540 | 10 | 143 | 8,790 |
| August | 2,050 | 35 | 224 | 13,800 |
| September | 409 | 24 | 54.8 | 3,260 |
| The year | 2,100 | 10 | 71.4 | 51,700 |

### SANTA CRUZ RIVER AT TUCSON, ARIZ.

LOCATION.—Staff gage in sec. 14, T. 14 S., R. 13 E., at Congress Street Bridge at Tucson, 7 miles above mouth of Rillito Creek.

DRAINAGE AREA.—2,260 square miles.

RECORDS AVAILABLE.—October, 1905, to September, 1927.

EXTREMES.—Maximum discharge during year, 1,950 second-feet September 7 (gage height, 15.5 feet); no flow during greater part of year.

1905–1927: Maximum discharge, 11,400 second-feet September 28, 1926 (gage height, 19.5 feet); no flow during greater part of each year.

REMARKS.—Records good. Discharge estimated or interpolated December 4–7, 12, 19, 25, 26, 31, January 1, 2, February 13, July 10, 11, 24–26, August 21, 28, 29, and September 11, 15, and 17. Diversions for irrigation above station.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | 55 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 31 | 0 |
| 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | 0 | 0 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 177 | 0 |
| 6 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7 | 59 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 378 |
| 8 | 53 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 26 |
| 9 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 56 | 0 | 0 |
| 10 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 0 | 0 |
| 11 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 2 |
| 12 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 67 |
| 13 | 0 | 0 | 3 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 135 | 44 |
| 14 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 15 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 16 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 0 |
| 17 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 18 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 |
| 19 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 35 | 26 |
| 20 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 10 |
| 21 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 22 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 46 | 0 |
| 23 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 |
| 24 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 |
| 25 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 66 | 0 |
| 26 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 36 | 0 |
| 27 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 0 |
| 28 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 |
| 29 | 0 | 0 | 2 | 0 | ------ | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 30 | 0 | 0 | 2 | 0 | ------ | 0 | 0 | 0 | 0 | 0 | 5 | 0 |
| 31 | 0 | ------ | 2 | 0 | ------ | 0 | ------ | 0 | ------ | 0 | 0 | ------ |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 59 | 0 | 3.6 | 221 |
| November | 55 | 0 | 1.8 | 107 |
| December | 5 | 0 | 3.3 | 203 |
| January | 2 | 0 | .3 | 16 |
| February | 5 | 0 | .2 | 10 |
| July | 56 | 0 | 4.5 | 274 |
| August | 177 | 0 | 19.3 | 1,190 |
| September | 378 | 0 | 18.9 | 1,120 |
| The year | 378 | 0 | 4.3 | 3,140 |

### RILLITO CREEK NEAR TUCSON, ARIZ.

LOCATION.—Staff gage in sec. 23, T. 13 S., R. 13 E., at Oracle Road Bridge 4 miles above confluence with Santa Cruz River and 4 miles north of Tucson.
DRAINAGE AREA.—897 square miles.
RECORDS AVAILABLE.—January, 1911, to September, 1927.
EXTREMES.—Maximum discharge during year, 2,200 second-feet September 12 (gage height, 18.2 feet); no flow during greater part of year.
1911–1927: Maximum discharge, greater than 16,000 second-feet December 23, 1914; no flow during greater part of each year.
REMARKS.—Records fair. Discharge estimated December 16 and 25. Diversions for irrigation above station.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | 0 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5 | 0 | 0 | 0 | 33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 6 | 0 | 0 | 0 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 46 |
| 8 | 5 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| 9 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 19 | 5 | 0 |
| 11 | 0 | 0 | 0 | 0 | 0 | 158 | 0 | 0 | 0 | 0 | 0 | 78 |
| 12 | 0 | 0 | 6 | 0 | 0 | 46 | 0 | 0 | 0 | 0 | 0 | 487 |
| 13 | 0 | 0 | 1 | 0 | 0 | 38 | 0 | 0 | 0 | 0 | 0 | 4 |
| 14 | 0 | 0 | 12 | 0 | 0 | 55 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15 | 0 | 0 | 6 | 0 | 33 | 90 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16 | 0 | 0 | 1 | 0 | 138 | 77 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17 | 0 | 0 | 0 | 0 | 212 | 55 | 0 | 0 | 0 | 0 | 23 | 0 |
| 18 | 0 | 0 | 0 | 0 | 101 | 46 | 0 | 0 | 0 | 0 | 4 | 15 |
| 19 | 0 | 0 | 0 | 0 | 70 | 46 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20 | 0 | 0 | 0 | 0 | 36 | 24 | 0 | 0 | 0 | 0 | 0 | 0 |
| 21 | 0 | 0 | 0 | 0 | 31 | 0 | 0 | 0 | 0 | 0 | 8 | 0 |
| 22 | 0 | 0 | 0 | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 23 | 0 | 0 | 7 | 0 | 38 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 24 | 0 | 0 | 2 | 0 | 33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 25 | 0 | 0 | 1 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 26 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 27 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 36 | 0 |
| 28 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 29 | 0 | 0 | 0 | 0 | ------ | 0 | 0 | 0 | 0 | 0 | 24 | 0 |
| 30 | 6 | 0 | 0 | 0 | ------ | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 31 | 5 | ------ | 0 | 0 | ------ | 0 | ------ | 0 | ------ | 0 | 0 | ------ |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 6 | 0 | 0.5 | 31 |
| December | 12 | 0 | 1.2 | 71 |
| January | 33 | 0 | 3.2 | 194 |
| February | 212 | 0 | 26.9 | 1,490 |
| March | 158 | 0 | 20.5 | 1,260 |
| July | 19 | 0 | .6 | 37 |
| August | 36 | 0 | 3.2 | 197 |
| September | 487 | 0 | 21.8 | 1,300 |
| The year | 487 | 0 | 6.3 | 4,580 |

### SALT RIVER NEAR CHRYSOTILE, ARIZ.

LOCATION.—Water-stage recorder in SE. ¼ sec. 5, T. 5 N., R. 18 E., on San Carlos Indian Reservation, near Chrysotile and 8 miles above Cibecue Creek. Zero of gage about 3,250 feet above mean sea level.

DRAINAGE AREA.—3,050 square miles.

RECORDS AVAILABLE.—September, 1924, to September, 1927.

EXTREMES.—Maximum discharge during year, 14,600 second-feet February 17 (gage height, 9.9 feet); minimum, 114 second-feet December 26 (gage height, 1.52 feet.)

1924–1927: Maximum discharge, that of February 17, 1927. Minimum, that of December 26, 1926.

REMARKS.—Records good. Only minor diversions above station.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 260 | 198 | 178 | 175 | 219 | 2,220 | 1,770 | 2,360 | 540 | 382 | 314 | 286 |
| 2 | 250 | 198 | 178 | 182 | 223 | 1,800 | 1,640 | 2,170 | 504 | 340 | 290 | 272 |
| 3 | 230 | 194 | 178 | 202 | 223 | 1,560 | 1,740 | 2,080 | 486 | 309 | 272 | 267 |
| 4 | 220 | 182 | 178 | 227 | 254 | 1,440 | 2,090 | 1,940 | 462 | 290 | 300 | 254 |
| 5 | 205 | 178 | 198 | 281 | 281 | 1,390 | 2,480 | 1,770 | 438 | 286 | 387 | 249 |
| 6 | 195 | 178 | 198 | 309 | 324 | 1,310 | 2,580 | 1,630 | 426 | 319 | 426 | 263 |
| 7 | 182 | 171 | 215 | 345 | 309 | 1,250 | 2,400 | 1,500 | 409 | 345 | 376 | 324 |
| 8 | 175 | 171 | 245 | 340 | 295 | 1,200 | 2,300 | 1,410 | 398 | 392 | 350 | 309 |
| 9 | 175 | 171 | 236 | 340 | 281 | 1,170 | 2,170 | 1,390 | 398 | 492 | 329 | 290 |
| 10 | 175 | 168 | 223 | 340 | 272 | 1,520 | 2,020 | 1,370 | 398 | 370 | 305 | 309 |
| 11 | 175 | 168 | 215 | 334 | 258 | 1,870 | 1,750 | 1,380 | 420 | 329 | 281 | 360 |
| 12 | 175 | 168 | 223 | 324 | 267 | 1,740 | 1,540 | 1,310 | 510 | 305 | 272 | 504 |
| 13 | 175 | 175 | 627 | 345 | 305 | 1,730 | 1,380 | 1,240 | 522 | 286 | 272 | 682 |
| 14 | 219 | 178 | 592 | 345 | 409 | 2,600 | 1,340 | 1,210 | 498 | 267 | 254 | 862 |
| 15 | 190 | 190 | 426 | 319 | 3,800 | 3,260 | 1,220 | 1,220 | 450 | 236 | 268 | 750 |
| 16 | 175 | 186 | 305 | 305 | 7,960 | 2,850 | 1,180 | 1,250 | 409 | 223 | 475 | 612 |
| 17 | 171 | 186 | 227 | 295 | 12,700 | 2,290 | 1,290 | 1,220 | 376 | 202 | 309 | 1,820 |
| 18 | 168 | 186 | 211 | 286 | 6,530 | 1,870 | 1,360 | 1,190 | 355 | 194 | 263 | 742 |
| 19 | 164 | 178 | 202 | 272 | 2,670 | 1,730 | 1,400 | 1,200 | 345 | 190 | 295 | 566 |
| 20 | 164 | 178 | 219 | 258 | 2,020 | 1,630 | 1,810 | 1,180 | 329 | 186 | 324 | 492 |
| 21 | 164 | 178 | 223 | 254 | 1,990 | 1,390 | 2,220 | 1,090 | 319 | 182 | 345 | 426 |
| 22 | 164 | 178 | 241 | 249 | 1,960 | 1,280 | 2,660 | 999 | 309 | 178 | 324 | 392 |
| 23 | 160 | 178 | 258 | 245 | 1,940 | 1,210 | 2,900 | 934 | 300 | 178 | 329 | 38 7 |
| 24 | 160 | 178 | 223 | 236 | 1,910 | 1,220 | 2,860 | 854 | 281 | 219 | 263 | 376 |
| 25 | 160 | 182 | 175 | 227 | 1,880 | 1,370 | 2,740 | 790 | 272 | 267 | 398 | 370 |
| 26 | 160 | 182 | 171 | 219 | 1,850 | 1,590 | 2,800 | 735 | 272 | 456 | 329 | 334 |
| 27 | 157 | 182 | 164 | 215 | 2,080 | 1,790 | 2,840 | 690 | 276 | 488 | 370 | 319 |
| 28 | 157 | 182 | 175 | 215 | 2,240 | 1,800 | 2,760 | 654 | 489 | 504 | 535 | 300 |
| 29 | 157 | 182 | 164 | 215 | ------ | 1,760 | 2,680 | 633 | 742 | 462 | 498 | 281 |
| 30 | 168 | 178 | 160 | 215 | ------ | 1,890 | 2,580 | 586 | 456 | 432 | 387 | 267 |
| 31 | 198 | ------ | 168 | 215 | ------ | 1,850 | ------ | 566 | ------ | 355 | 319 | ------ |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 260 | 157 | 182 | 11,200 |
| November | 198 | 168 | 180 | 10,700 |
| December | 627 | 160 | 239 | 14,700 |
| January | 345 | 175 | 269 | 16,500 |
| February | 12,700 | 219 | 1,980 | 110,000 |
| March | 3,260 | 1,170 | 1,730 | 106,000 |
| April | 2,900 | 1,180 | 2,080 | 124,000 |
| May | 2,360 | 566 | 1,240 | 76,200 |
| June | 742 | 272 | 413 | 24,600 |
| July | 504 | 178 | 312 | 19,200 |
| August | 535 | 254 | 337 | 20,700 |
| September | 1,820 | 249 | 456 | 27,100 |
| The year | 12,700 | 157 | 775 | 561,000 |

### SALT RIVER NEAR ROOSEVELT, ARIZ.

LOCATION.—Staff gage near diversion dam for power canal, 10 miles above upper end of Roosevelt Reservoir and 20 miles east of Roosevelt, Gila County.
DRAINAGE AREA.—4,222 square miles.
RECORDS AVAILABLE.—October, 1913, to September, 1927.
EXTREMES.—Maximum mean daily discharge during year, 31,600 second-feet February 18; minimum, 165 second-feet July 23.
1913–1927: Maximum mean daily discharge, 79,200 second-feet January 19, 1916; minimum, 135 second-feet July 12, 1926.
REMARKS.—Only minor diversions above station. Daily-discharge record furnished by Salt River Valley Water Users' Association.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 409 | 248 | 239 | 239 | 280 | 3,380 | 2,540 | 2,340 | 583 | 630 | 335 | 315 |
| 2 | 234 | 273 | 235 | 244 | 280 | 3,050 | 2,220 | 2,120 | 542 | 480 | 305 | 295 |
| 3 | 322 | 266 | 232 | 270 | 284 | 2,520 | 2,170 | 1,910 | 518 | 398 | 253 | 278 |
| 4 | 295 | 266 | 238 | 293 | 303 | 2,100 | 2,040 | 1,810 | 504 | 347 | 330 | 250 |
| 5 | 285 | 257 | 250 | 315 | 313 | 2,000 | 2,500 | 1,810 | 485 | 310 | 595 | 242 |
| 6 | 279 | 248 | 294 | 365 | 339 | 1,960 | 2,710 | 1,740 | 468 | 420 | 688 | 235 |
| 7 | 271 | 244 | 294 | 389 | 377 | 1,890 | 2,980 | 1,620 | 447 | 355 | 518 | 375 |
| 8 | 252 | 242 | 395 | 448 | 387 | 1,790 | 2,560 | 1,570 | 438 | 398 | 387 | 385 |
| 9 | 250 | 239 | 390 | 436 | 376 | 1,700 | 2,380 | 1,530 | 425 | 400 | 340 | 338 |
| 10 | 246 | 230 | 353 | 475 | 352 | 1,550 | 2,380 | 1,520 | 413 | 568 | 435 | 345 |
| 11 | 244 | 227 | 320 | 436 | 350 | 2,750 | 2,100 | 1,500 | 530 | 393 | 408 | 307 |
| 12 | 234 | 226 | 313 | 432 | 350 | 3,000 | 2,080 | 1,520 | 496 | 335 | 398 | 850 |
| 13 | 234 | 226 | 636 | 436 | 396 | 2,550 | 1,860 | 1,490 | 575 | 277 | 278 | 1,590 |
| 14 | 246 | 227 | 1,080 | 431 | 691 | 2,450 | 1,590 | 1,260 | 600 | 258 | 405 | 988 |
| 15 | 260 | 230 | 875 | 433 | 3,010 | 3,450 | 1,310 | 1,240 | 565 | 250 | 287 | 1,030 |
| 16 | 267 | 277 | 680 | 432 | 19,300 | 3,880 | 1,260 | 1,260 | 492 | 195 | 355 | 990 |
| 17 | 240 | 277 | 441 | 397 | 28,300 | 3,120 | 1,420 | 1,260 | 435 | 184 | 648 | 730 |
| 18 | 233 | 277 | 372 | 377 | 31,600 | 2,460 | 1,320 | 1,240 | 390 | 175 | 360 | 2,320 |
| 19 | 226 | 278 | 291 | 359 | 9,650 | 2,060 | 1,340 | 1,210 | 347 | 173 | 320 | 1,070 |
| 20 | 225 | 272 | 280 | 350 | 4,950 | 1,800 | 1,440 | 1,230 | 322 | 178 | 365 | 768 |
| 21 | 224 | 268 | 293 | 336 | 3,520 | 1,850 | 1,810 | 1,160 | 300 | 169 | 370 | 740 |
| 22 | 223 | 270 | 306 | 314 | 3,250 | 1,790 | 2,100 | 1,100 | 280 | 171 | 490 | 550 |
| 23 | 220 | 275 | 482 | 320 | 3,050 | 1,720 | 2,550 | 1,050 | 268 | 165 | 375 | 588 |
| 24 | 220 | 257 | 436 | 313 | 3,000 | 1,640 | 2,690 | 975 | 262 | 166 | 370 | 520 |
| 25 | 220 | 260 | 373 | 312 | 3,080 | 1,690 | 2,660 | 888 | 247 | 196 | 498 | 453 |
| 26 | 219 | 270 | 296 | 302 | 3,050 | 1,860 | 2,550 | 787 | 239 | 215 | 395 | 445 |
| 27 | 218 | 265 | 240 | 289 | 3,150 | 2,250 | 2,620 | 723 | 237 | 527 | 435 | 402 |
| 28 | 218 | 265 | 250 | 280 | 3,320 | 2,300 | 2,620 | 690 | 370 | 618 | 440 | 385 |
| 29 | 218 | 236 | 275 | 278 | ------- | 2,300 | 2,550 | 665 | 2,990 | 605 | 963 | 350 |
| 30 | 219 | 240 | 252 | 280 | ------- | 2,220 | 2,410 | 648 | 1,080 | 500 | 695 | 335 |
| 31 | 227 | ------- | 237 | 280 | ------- | 2,220 | ------- | 625 | ------- | 422 | 450 | ------- |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 409 | 218 | 251 | 15,400 |
| November | 278 | 226 | 255 | 15,200 |
| December | 1,080 | 232 | 376 | 23,100 |
| January | 475 | 239 | 350 | 21,500 |
| February | 31,600 | 280 | 4,550 | 253,000 |
| March | 3,880 | 1,550 | 2,300 | 141,000 |
| April | 2,980 | 1,260 | 2,160 | 129,000 |
| May | 2,340 | 625 | 1,310 | 80,600 |
| June | 2,990 | 237 | 528 | 31,400 |
| July | 630 | 165 | 338 | 20,800 |
| August | 963 | 253 | 435 | 26,700 |
| September | 2,320 | 235 | 616 | 36,700 |
| The year | 31,600 | 165 | 1,100 | 794,000 |

### TONTO CREEK NEAR ROOSEVELT, ARIZ.

LOCATION.—Staff gage in sec. 14, T. 6 N., R. 10 E., 6 miles above upper end of Roosevelt Reservoir and 15 miles northwest of Roosevelt.
DRAINAGE AREA.—1,004 square miles.
RECORDS AVAILABLE.—October, 1913, to September, 1927.
EXTREMES.—Maximum mean daily discharge during year, 12,600 second-feet February 17; minimum, 2 second-feet October 25–28.
1913–1927: Maximum mean daily discharge, 20,000 second-feet December 28, 1923; no flow September 4–10, 1924.
REMARKS.—No diversions of importance above station. Daily-discharge record furnished by Salt River Valley Water Users' Association.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 75 | 7 | 4 | 15 | 3 | 90 | 10 | 170 | 30 | 315 | 15 | 10 |
| 2 | 50 | 5 | 4 | 18 | 3 | 90 | 8 | 165 | 30 | 110 | 15 | 10 |
| 3 | 160 | 5 | 4 | 15 | 3 | 90 | 8 | 165 | 30 | 50 | 10 | 10 |
| 4 | 70 | 5 | 6 | 15 | 5 | 85 | 6 | 165 | 15 | 50 | 10 | 10 |
| 5 | 50 | 4 | 15 | 15 | 5 | 85 | 6 | 56 | 15 | 50 | 10 | 5 |
| 6 | 15 | 4 | 100 | 15 | 10 | 350 | 6 | 56 | 15 | 10 | 25 | 5 |
| 7 | 10 | 3 | 125 | 15 | 3 | 125 | 15 | 56 | 15 | 10 | 15 | 25 |
| 8 | 10 | 3 | 300 | 50 | 3 | 100 | 15 | 56 | 15 | 500 | 15 | 25 |
| 9 | 145 | 3 | 250 | 45 | 3 | 90 | 175 | 56 | 15 | 115 | 15 | 25 |
| 10 | 100 | 3 | 150 | 45 | 5 | 200 | 175 | 56 | 15 | 100 | 10 | 15 |
| 11 | 15 | 3 | 100 | 45 | 5 | 700 | 175 | 56 | 150 | 75 | 7 | 15 |
| 12 | 5 | 3 | 90 | 40 | 40 | 650 | 175 | 56 | 100 | 25 | 7 | 725 |
| 13 | 6 | 4 | 1,250 | 40 | 300 | 640 | 175 | 56 | 75 | 15 | 30 | 3,500 |
| 14 | 6 | 7 | 1,000 | 40 | 575 | 640 | 195 | 56 | 70 | 15 | 25 | 900 |
| 15 | 6 | 4 | 500 | 25 | 5,200 | 640 | 195 | 56 | 70 | 10 | 25 | 300 |
| 16 | 4 | 5 | 250 | 25 | 9,910 | 500 | 195 | 56 | 45 | 10 | 850 | 275 |
| 17 | 4 | 4 | 200 | 18 | 12,600 | 500 | 195 | 45 | 45 | 10 | 250 | 400 |
| 18 | 4 | 4 | 125 | 12 | 7,500 | 480 | 200 | 45 | 45 | 10 | 125 | 2,000 |
| 19 | 4 | 4 | 115 | 12 | 4,000 | 480 | 350 | 40 | 45 | 5 | 25 | 150 |
| 20 | 4 | 4 | 100 | 18 | 900 | 450 | 360 | 40 | 45 | 5 | 25 | 200 |
| 21 | 3 | 4 | 75 | 18 | 425 | 350 | 350 | 40 | 25 | 5 | 25 | 200 |
| 22 | 3 | 4 | 70 | 12 | 325 | 300 | 350 | 40 | 25 | 5 | 25 | 90 |
| 23 | 3 | 4 | 400 | 12 | 325 | 75 | 350 | 40 | 25 | 5 | 25 | 50 |
| 24 | 3 | 4 | 300 | 12 | 200 | 35 | 175 | 40 | 25 | 5 | 10 | 50 |
| 25 | 2 | 4 | 250 | 10 | 100 | 25 | 175 | 40 | 15 | 5 | 35 | 25 |
| 26 | 2 | 4 | 175 | 10 | 95 | 20 | 175 | 40 | 15 | 7 | 28 | 10 |
| 27 | 2 | 4 | 60 | 10 | 90 | 18 | 170 | 30 | 15 | 25 | 350 | 10 |
| 28 | 2 | 4 | 50 | 10 | 90 | 15 | 170 | 30 | 1,000 | 25 | 250 | 10 |
| 29 | 3 | 5 | 25 | 5 | ------- | 15 | 170 | 30 | 2,400 | 15 | 250 | 10 |
| 30 | 5 | 5 | 20 | 5 | ------- | 15 | 170 | 30 | 475 | 15 | 200 | 10 |
| 31 | 7 | ------- | 20 | 5 | ------- | 10 | ------- | 30 | ------- | 15 | 50 | ------- |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 160 | 2 | 25.1 | 1,540 |
| November | 7 | 3 | 4.2 | 250 |
| December | 1,250 | 4 | 198 | 12,200 |
| January | 50 | 5 | 20.4 | 1,250 |
| February | 12,600 | 3 | 1,530 | 85,000 |
| March | 700 | 10 | 254 | 15,600 |
| April | 360 | 6 | 163 | 9,700 |
| May | 170 | 30 | 61.2 | 3,760 |
| June | 2,400 | 15 | 164 | 9,700 |
| July | 500 | 5 | 52.2 | 3,210 |
| August | 850 | 7 | 88.9 | 5,470 |
| September | 3,500 | 5 | 302 | 18,000 |
| The year | 12,600 | 2 | 228 | 166,000 |

### VERDE RIVER ABOVE CAMP CREEK, NEAR McDOWELL, ARIZ.

LOCATION.—Water-stage recorder in sec. 17, T. 5 N., R. 7 E., 500 feet above mouth of Camp Creek and 10 miles north of McDowell.

DRAINAGE AREA.—5,550 square miles.

RECORDS AVAILABLE.—February, 1925, to September, 1927. August to September, 1889; April, 1897, to November, 1899; January, 1901, to February, 1925, at a point three-quarters of a mile above mouth.

EXTREMES.—Maximum mean daily discharge during year, 48,200 second-feet February 17; minimum, 108 second-feet July 19.

1897–1899, 1901–1927: Maximum mean daily discharge, 61,500 second-feet November 27, 1905; minimum, 32 second-feet July 19 and 20, 1904.

REMARKS.—Only minor diversions above station. Daily-discharge record furnished by Salt River Valley Water Users' Association.

*Daily and monthly discharge, in second-feet, 1926–27*

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 438 | 230 | 271 | 308 | 375 | 5,410 | 1,380 | 278 | 169 | 1,250 | 174 | 980 |
| 2 | 385 | 217 | 275 | 311 | 361 | 3,590 | 1,260 | 267 | 163 | 770 | 153 | 589 |
| 3 | 396 | 228 | 285 | 304 | 333 | 2,200 | 1,020 | 223 | 148 | 435 | 150 | 410 |
| 4 | 435 | 225 | 268 | 351 | 328 | 1,980 | 1,140 | 215 | 140 | 323 | 270 | 417 |
| 5 | 320 | 220 | 284 | 357 | 323 | 2,020 | 1,220 | 208 | 152 | 255 | 495 | 511 |
| 6 | 326 | 243 | 308 | 367 | 309 | 2,060 | 1,300 | 212 | 155 | 235 | 270 | 343 |
| 7 | 311 | 215 | 316 | 366 | 308 | 1,690 | 1,280 | 202 | 147 | 208 | 249 | 255 |
| 8 | 288 | 214 | 624 | 353 | 309 | 1,720 | 1,040 | 193 | 140 | 318 | 227 | 715 |
| 9 | 410 | 206 | 716 | 359 | 341 | 1,900 | 887 | 193 | 152 | 317 | 223 | 815 |
| 10 | 317 | 209 | 730 | 361 | 355 | 1,680 | 765 | 205 | 155 | 277 | 202 | 510 |
| 11 | 339 | 228 | 495 | 375 | 350 | 2,220 | 703 | 217 | 239 | 280 | 195 | 375 |
| 12 | 320 | 226 | 409 | 378 | 363 | 2,400 | 601 | 223 | 188 | 244 | 193 | 3,650 |
| 13 | 305 | 230 | 524 | 357 | 394 | 2,320 | 573 | 202 | 194 | 195 | 260 | 18,200 |
| 14 | 270 | 227 | 1,380 | 370 | 573 | 2,260 | 525 | 214 | 177 | 180 | 345 | 5,350 |
| 15 | 254 | 222 | 967 | 372 | 6,420 | 3,150 | 542 | 193 | 200 | 163 | 410 | 2,980 |
| 16 | 254 | 217 | 505 | 358 | 30,700 | 4,340 | 581 | 192 | 222 | 152 | 2,050 | 1,690 |
| 17 | 245 | 222 | 447 | 360 | 48,200 | 2,880 | 707 | 187 | 230 | 139 | 525 | 2,000 |
| 18 | 238 | 239 | 366 | 346 | 43,200 | 2,140 | 1,300 | 189 | 220 | 122 | 287 | 2,250 |
| 19 | 217 | 229 | 358 | 341 | 18,800 | 1,740 | 1,180 | 199 | 217 | 108 | 277 | 3,020 |
| 20 | 254 | 246 | 346 | 325 | 9,150 | 1,550 | 995 | 189 | 179 | 109 | 257 | 2,360 |
| 21 | 213 | 242 | 315 | 312 | 5,200 | 1,460 | 870 | 183 | 168 | 116 | 239 | 1,380 |
| 22 | 205 | 245 | 329 | 308 | 4,220 | 1,160 | 663 | 180 | 172 | 131 | 216 | 960 |
| 23 | 214 | 225 | 497 | 324 | 5,330 | 949 | 625 | 174 | 183 | 230 | 200 | 667 |
| 24 | 217 | 246 | 443 | 318 | 4,710 | 851 | 565 | 158 | 185 | 185 | 318 | 518 |
| 25 | 217 | 246 | 384 | 297 | 4,540 | 826 | 545 | 166 | 176 | 152 | 228 | 770 |
| 26 | 195 | 238 | 352 | 386 | 4,120 | 1,340 | 488 | 159 | 165 | 136 | 208 | 925 |
| 27 | 207 | 234 | 353 | 342 | 4,170 | 1,980 | 468 | 165 | 157 | 181 | 763 | 698 |
| 38 | 222 | 237 | 330 | 334 | 4,400 | 2,060 | 448 | 174 | 142 | 190 | 682 | 610 |
| 29 | 218 | 240 | 338 | 318 | ------- | 1,840 | 308 | 166 | 216 | 202 | 845 | 482 |
| 30 | 248 | 244 | 328 | 308 | ------- | 1,550 | 284 | 163 | 910 | 220 | 2,040 | 435 |
| 31 | 228 | ------- | 315 | 390 | ------- | 1,270 | ------- | 151 | ------- | 221 | 1,740 | ------- |

| Month | Discharge in second-feet | | | Run-off in acre-feet |
|---|---|---|---|---|
| | Maximum | Minimum | Mean | |
| October | 438 | 195 | 281 | 17,300 |
| November | 246 | 206 | 230 | 13,700 |
| December | 1,380 | 268 | 447 | 27,500 |
| January | 390 | 304 | 344 | 21,200 |
| February | 48,200 | 308 | 7,080 | 393,000 |
| March | 5,410 | 826 | 2,080 | 128,000 |
| April | 1,380 | 284 | 809 | 48,100 |
| May | 278 | 151 | 195 | 12,000 |
| June | 910 | 140 | 202 | 12,000 |
| July | 1,250 | 108 | 259 | 15,900 |
| August | 2,050 | 150 | 474 | 29,100 |
| September | 18,200 | 255 | 1,830 | 109,000 |
| The year | 48,200 | 108 | 1,140 | 827,000 |

## MISCELLANEOUS DISCHARGE MEASUREMENTS

In addition to records of flow obtained at gaging stations and reported in the preceding pages, measurements were made at other points, as shown by the following table:

*Miscellaneous discharge measurements in Colorado River drainage basin during the year ending September 30, 1927*

| Date | Stream | Tributary to or diverting from— | Locality | Gage height | Discharge |
|---|---|---|---|---|---|
| | | | | *Feet* | *Sec.-ft.* |
| Oct. 18 | North Fork of Duchesne River. | Duchesne River | SE. ¼ sec. 19, T. 1 N., R. 8 W., Uinta base and meridian, 25 feet upstream from confluence with West Fork of Duchesne River and 6 miles northwest of Hanna, Utah. | | 28.4 |
| 18 | West Fork of Duchesne River. | do | NE. ¼ sec. 25, T. 1 N., R. 9 W., Uinta base and meridian, 1¼ miles upstream from confluence with North Fork of Duchesne River and 7 miles northwest of Hanna, Utah. | | 20.2 |
| Aug. 10 | Brown Duck Creek. | West Fork of Lake Fork. | NE. ¼ sec. 13, T. 2 N., R. 6 W., Uinta base and meridian, at water commissioner's gage about 600 feet upstream from confluence with Moon Lake and 14 miles northwest of Mountain Home, Utah. | 1.12 | 57.2 |
| 4 | Uinta River | Duchesne River | SE. ¼ sec. 7, T. 3 S., R. 2 E., Uinta base and meridian, at Randlett, Utah, 1½ miles upstream from from confluence with Duchesne River. | | 42.9 |
| Feb. 10 | Uintah Power & Light Co.'s tailrace. | Uinta River | SW. ¼ sec. 25, T. 2 N., R. 2 W., Uinta base and meridian, at plant 9 miles northwest of Neola, Utah. | | 2.9 |
| Oct. 28 | Fish Creek | Price River | NW. ¼ sec. 26, T. 11 S., R. 8 E., 100 feet above confluence with White River and ½ mile southeast of Colton, Utah. | | 14.6 |
| Feb. 5 | Price River | Green River | SE. ¼ sec. 9, T. 13 S., R. 14 E., at highway bridge at Woodside, Utah. | | 25.2 |
| May 30 | Gooseberry Creek. | Fish Creek | NW. ¼ sec. 19, T. 13 S., at proposed dam site 8 miles southwest of Scofield, Utah. | | 59.6 |
| June 8 | do | do | do | | 39.6 |
| July 28 | do | do | do | | 6.2 |
| Oct. 28 | White River | Price River | NW. ¼ sec. 26, T. 11 S., R. 8 E., 100 feet above confluence with Fish Creek and ½ mile southeast of Colton, Utah. | | 2.6 |
| May 30 | Boulger Creek | Huntington Creek. | SE. ¼ sec. 33, T. 13 S., R. 6 E., 8 miles southwest of Scofield, Utah. | | 22.0 |
| June 8 | do | do | do | | 32.7 |
| July 28 | do | do | do | | 2.5 |
| May 30 | Flat Canyon Creek. | Boulger Creek | NE. ¼ sec. 33, T. 1 S., R. 6 E., 8 miles southwest of Scofield, Utah. | | 3 |
| June 8 | do | do | do | | 5 |
| July 28 | do | do | do | | 1.2 |
| Sept. 22 | North Montezuma Creek. | Montezuma Creek. | SE. ¼ sec. 36, T. 33 S., R 23 E., at highway bridge ½ mile south of Monticello, Utah. | | 8.2 |
| 22 | North Fork of North Montezuma Creek. | North Montezuma Creek. | NE. ¼ sec. 35, T. 33 S., R. 23 E., at forest-ranger station 1 mile west of Monticello, Utah. | | 4.8 |
| June 13 | East Fork of Virgin River. | Virgin River | SW. ¼ sec. 5, T. 42 S., R. 10 W., ½ mile above confluence with Mukuntuweap River and 2 miles east of Rockville, Utah. | | 41.6 |
| 14 | St. George & Washington Canal. | do | SE. ¼ sec. 20, T. 42 S., R. 14 W., a quarter of a mile from head of canal and 4 miles east of Washington, Utah. | | 106 |
| Feb. 18 | Mineral Creek | Gila River | Kelvin, Ariz | | 179 |

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