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Thirty-third Biennial Report of The

STATE ENGINEER OF COLORADO

Hydrographic Data Less Discharge Tables For The Years - 1945-1946



PLATTE RIVER BASIN

SOUTH PLATTE RIVER ABOVE ELEVEN MILE CANYON RESERVOIR NEAR HARTSEL, COLORADO

Location - Water stage recorder and Parshall flume in Sec. 33, T. 12 N., R. 73 W., 250 feet downstream from highway bridge on road from Hartsel to Guffey, and 1 mile upstream from highwater line of Eleven Mile Canyon Reservoir and 13 miles southeast of Hartsel. A 20-foot Parshall flume was installed in October, 1940.

Drainage Area - 861 square miles.

Records Available - May 27, 1939 to September 30, 1946.

Maximum discharge during period 1939-1946 - 954 second feet August 2, 1945, from rating curve extended above 450 second feet. Gage height 4.88 feet.

Maximum Discharge - Year 1945 - 954 second feet, August 2. Gage height 4.88 feet.

Maximum Discharge - Year 1946 - 695 second feet, July 18. Gage height 3.98 feet.

Accuracy - Records considered good.

Diversions for storage and irrigation above station. Flow partly regulated by Antero Reservoir, capacity 33,000 acre feet.

SOUTH PLATTE RIVER BELOW ELEVEN MILE CANYON RESERVOIR NEAR LAKE GEORGE, COLORADO

Location - Water stage recorder and Parshall flume in SW¼ Sec. 20, T. 13 S., R. 72 W. 800 feet downstream from Eleven Mile Canyon Reservoir and 9 miles upstream from Lake George. Concrete 15-foot Parshall flume installed in October, 1940.

Drainage Area - 929 square miles. Zero of gage is 8,423.95 feet above mean sea level, adjustment of 1912.

Records Available - October 1, 1929 to September 30, 1946. Station located at Lake George, nine miles downstream, from October, 1910 to September, 1929, and one mile downstream from present site from October, 1929 to October, 1940.

Maximum discharge during period 1930-1946 - 990 second feet, August 15, 1930, from rating curve extended above 550 second feet. Gage height 4.80 feet, site and datum then in use.

Maximum Discharge - Year 1945 - 740 second feet, August 7, from rating curve extended above 300 second feet. Gage height 4.88 feet.

Maximum Discharge - Year 1946 - 508 second feet, June 11, from rating table extended above 300 second feet.

Accuracy - Records considered excellent.

Diversions for storage and irrigation above station. Flow regulated by Antero and Eleven Mile Canyon reservoirs. Capacities, 33,000 and 81,917 acre feet, respectively.

SOUTH PLATTE RIVER BELOW LAKE CHEESMAN, COLORADO

Location - Water stage recorder in Sec. 6, T. 10 S., R. 70 W., ¼ mile downstream from Lake Cheesman.

Drainage Area - 1,766 square miles. Zero of gage is 6,610.38 feet above mean sea level, adjustment of 1912.

Records Available - October 1, 1924 to September 30, 1946. Acre-foot estimates 1909 to 1924.

Maximum discharge during period 1924-1946 - 3,020 second feet, April 23, 1942, from rating curve extended above 1,200 second feet. Gage height 8.46 feet.

Maximum Discharge - Year 1945 - 1,110 second feet, August 11. Gage height 5.60 feet.

Maximum Discharge - Year 1946 - 782 second feet, July 16. Gage height 4.88 feet.

Accuracy - Records considered good.

Diversions for storage and irrigation above station. Flow regulated by three reservoirs, total capacity 194,000 acre feet.

SOUTH PLATTE RIVER AT SOUTH PLATTE, COLORADO

Location - Water stage recorder in Sec. 25, T. 7 S., R. 70 W., at South Platte, 375 feet downstream from mouth of North Fork of South Platte River.

Drainage Area - 2,550 square miles. Zero of gage is 6,078.43 feet above mean sea level, adjustment of 1912.

Records Available - March 28, 1902 to September 30, 1946.

Maximum discharge during period 1902-1946 - 6,320 second feet, June 8, 1921, from rating curve extended above 3,200 second feet. Gage height 8.95 feet.

Maximum Discharge - Year 1945 - 2,500 second feet, August 21. Gage height 5.48 feet.

Maximum Discharge - Year 1946 - 1,010 second feet, July 16. Gage height 3.72 feet.

Accuracy - Records considered good. Discharge for period of ice effect from November 29, 1944 to March 14, 1945 and December 16, 1945 to March 4, 1946, computed on basis of 7 discharge measurements, weather records, and comparison with North Fork and Waterton stations, and records for station below Cheesman Reservoir, plus estimated inflow.

Diversions for irrigation above station. Flow regulated by three reservoirs, capacity, 194,000 acre feet.

SOUTH PLATTE RIVER AT WATERTON, COLORADO

Location - Water stage recorder in Sec. 34, T. 6 S., R. 69 W., 200 feet east of highway bridge at pipe line crossing from Platte Canyon Reservoir to filter beds, and one-half mile south of Waterton. Waste from Platte Canyon Reservoir and Highline Canal enters river immediately upstream from station. Plum Creek enters 8 miles downstream.

Drainage Area - 2,620 square miles. Zero of gage is 5,484.43 feet above mean sea level, adjustment of 1912.

Records Available - May 21, 1926 to September 30, 1946.

Maximum discharge during period 1926-1946 - 5,700 second feet, April 23, 1942, from rating curve extended above 3,000 second feet. Gage height 5.68 feet.

Maximum Discharge - Year 1945 - 2,320 second feet, August 14. Gage height 3.35 feet.

Maximum Discharge - Year 1946 - 801 second feet, July 17. Gage height 2.09 feet.

Accuracy - Records good except those for period of ice effect, January 18 to February 10, 1945, December 16, 1945 to January 24, 1946, February 1, 2, 6, 9, 11-16, 1946, which were computed on basis of discharge measurements, weather records, and are fair.

Diversions for irrigation and by City of Denver above station. Flow regulated by three storage reservoirs above station, capacity 194,000 acre feet.

SOUTH PLATTE RIVER AT LITTLETON, COLORADO

Location - Wire-weight gage in Sec. 17, T. 5 S., R 68 W., on Hazard Street Bridge, at northwest edge of Littleton. Bear Creek enters 3.1 miles downstream.

Drainage Area - 3,090 square miles. Zero of gage is 5,305.34 feet above mean sea level, adjustment of 1912.

Records Available - July 21, 1941 to September 30, 1946.

Maximum discharge during period 1941-1946 - 9,720 second feet, April 23, 1942, from rating curve extended above 4,800 second feet. Gage height 8.55 feet, from flood marks.

Maximum Discharge - Year 1945 - 3,520 second feet, August 8. Gage height 5.45 feet.

Maximum Discharge - Year 1946 - 1,770 second feet, May 17. Gage height 3.84 feet.

Accuracy - Records considered fair with twice daily gage readings. Records during periods of ice effect computed on basis of discharge measurements, weather records, and comparison with records at Waterton and Denver stations.

Diversions for irrigation above station.

SOUTH PLATTE RIVER AT DENVER, COLORADO

Location - Water stage recorder at 19th Street Bridge in Denver, ½ mile downstream from mouth of Cherry Creek. Waste water from Farmers and Gardners Ditch enters river above station.

Drainage Area - 3,840 square miles. Zero of gage is 5,162.16 feet above mean sea level, datum of 1929.

Records Available - May 7, 1895 to September 30, 1946. Station maintained between 15th Street and 16th Street Bridges prior to August 29, 1931. Records comparable.

Maximum discharge during period 1902-1946 - 22,000 second feet, September 10, 1933. Gage height 10.98 feet.

Maximum Discharge - Year 1945 - 6,280 second feet, August 6. Gage he ght 6.14 feet.

Maximum Discharge - Year 1946 - 3,520 second feet, July 18. Gage height 4.86 feet.

Accuracy - Records considered good except those for periods of no gage-height record, October 18-20, 1944 April 19-20, May 21, June 15, 1945, April 19-25, May 23-25, 1946, which were computed on basis of records of South Platte River at Littleton and Henderson, and are fair.

Diversions for irrigation above station.

SOUTH PLATTE RIVER AT HENDERSON, COLORADO

Location - Water stage recorder in NE¼ Sec. 34, T. 1 S., R. 67 W., ½ mile west of Henderson, and just downstream from highway bridge.

Drainage Area - 4,740 square miles. Zero of gage is 5,005.12 feet above mean sea level.

Records Available - May 1, 1926 to September 30, 1946.

Maximum discharge during period 1926-1946 - 10,700 second feet, April 26, 1942. Gage height 8.40 feet, datum then in use.

Maximum Discharge - Year 1945 - 5,720 second feet, August 6. Gage height 5.89 feet.

Maximum Discharge - Year 1944 - 2,190 second feet, September 8. Gage height 3.90 feet.

Accuracy - Records considered good except those during period of no gage-height record, October 7-19, 1945 and May 27, 1946, September 14-18, 24-29, 1946, which are fair.

Diversions for irrigation above station.

SOUTH PLATTE RIVER AT FORT LUPTON, COLORADO

Location - Water stage recorder in Sec. 6, T. 1 N., R. 66 W., at the west edge of Fort Lupton ~~and 600 feet upstream from~~ highway bridge. ~~Prior to June 20, 1935, water stage recorder at site ½ mile downstream and at different datum.~~

Drainage Area - 5,070 square miles. Zero of gage is 4,888.68 feet above mean sea level, datum of 1929.

Records Available - May 10 to September 15, 1906, April 29, 1929 to September 30, 1946.

Maximum discharge during period 1906, 1929-1946 - 9,000 second feet, April 26, 1942, from rating curve extended above 6,700 second feet. Gage height 7.24 feet.

Maximum Discharge - Year 1945 - 4,240 second feet, August 6. Gage height 5.86 feet.

Maximum Discharge - Year 1946 - 1,970 second feet, September 8. Gage height 3.83 feet.

Accuracy - Records considered good except those for periods of no gage-height record, June 27 to July 5, August 19-21, August 27 to September 20, 1945, June 19 to July 25, August 4-17, 25 to September 7, 1946, which were computed on basis of weather records and comparison with records of nearby stations, and are fair.

Diversions for irrigation above station.

SOUTH PLATTE RIVER NEAR KERSEY, COLORADO

Location - Water stage recorder in Sec. 9, T. 5 N., R. 64 W., at highway bridge 1-3/4 miles north of Kersey. Cache la Poudre River enters 2½ miles upstream from station.

Drainage Area - 9,500 square miles. Zero of gage is 4,575.37 feet above mean sea level, datum of 1929.

Records Available - April 27, 1901 to October 31, 1903, March 1, 1905 to November 20, 1912, January 1, 1914 to September 30, 1946.

Maximum discharge during period 1901-1903, 1905-1946 - 31,000 second feet, June 7, 1921, from rating curve extended above 15,000 second feet.

Maximum Discharge - Year 1945 - 4,310 second feet, August 10. Gage height 6.13 feet.

Maximum Discharge - Year 1946 - 1,890 second feet, July 20. Gage height 4.99 feet.

Accuracy - Records considered good.

Diversions for irrigation above station.

SOUTH PLATTE RIVER AT SUBLETTE, COLORADO

Location - Water stage recorder in Sec. 14, T. 4 N., R. 61 W., at highway bridge and 1,000 feet south of Sublette.

Drainage Area - 12,900 square miles. Zero of gage is 4,420.48 feet above mean sea level, datum of 1929.

Records Available - April 19, 1926 to April 21, 1942, September 14, 1943 to September 30, 1946.

Maximum discharge during period 1926-1946 - 10,700 second feet, September 5, 1938, Gage height 8.78 feet. Highest discharge known about 30,000 second feet, June 7, 1921.

Maximum Discharge - Year 1945 - 3,090 second feet, August 11. Gage height 5.05 feet.
Maximum Discharge - Year 1946 - 1,510 second feet, July 21. Gage Height 3.43 feet.
Accuracy - Records considered good except those for period of no gage-height record, October 1-10, December 12-15, 23-29, 1944, August 22, September 11-13, 20-21, 28-30, October 1-5, December 17-21, 25-29, 1945, which were computed on basis of comparison with records for station at Kersey and are fair.

Diversions for storage and irrigation above station.

SOUTH PLATTE RIVER AT FORT MORGAN, COLORADO

Location - Water stage recorder in Sec. 31, T. 4 N., R. 57 W., 1 mile north of Fort Morgan at concrete highway bridge. Bijou Creek enters 3-3/4 miles upstream.

Drainage Area - 14,800 square miles.

Records Available - October 1, 1943 to September 30, 1946.

Maximum discharge during period 1943-1946 - 11,000 second feet, August 21, 1945. Gage height 9.33 feet. Maximum discharge occurred during Bijou Creek flood, May 31, 1935, discharge 84,000 second feet, by slope-area method.

Maximum Discharge - Year 1945 - 11,000 second feet, August 21, from rating curve extended above 2,500 second feet.

Maximum Discharge - Year 1946 - 2,710 second feet, September 8. Gage height 6.15 feet.

Accuracy - Records considered good except those for period of no-gage-height record, December 16, 1944, January 2, 1945, May 15, 16, June 18-22, July 26-28, August 14, 15, 18-20, 25, 1945, which were computed on basis of discharge measurements, diversion records, and comparison with record at Sublette, and are fair.

Diversions for irrigation and storage above station.

SOUTH PLATTE RIVER AT BALZAC, COLORADO

Location - Water stage recorder in Sec. 13, T. 5 N., R. 55 W., at Balzac Siding, 1½ miles northeast of Union. Two recording gages on two channels.

Drainage Area - 17,700 square miles. Zero of gage on main channel is 4,091.06 feet above mean sea level, datum of 1929.

Records Available - January, 1914 to September 30, 1946.

Maximum discharge during period 1917-1946 - May 31, 1935, discharge not determined. Gage height 11.43 feet.

Maximum Discharge - Year 1945 - 5,220 second feet, August 22, from rating curve extended above 3,100 second feet. Gage height 7.16 feet.

Maximum Discharge - Year 1946 - 2,080 second feet, September 8. Gage height 5.60 feet.

Accuracy - Records considered good. During period of no gage-height record, January 30-31, 1945, August 16-19, 23-31, December 18-31, 1945, discharges were computed by comparison with stations at Sublette, Fort Morgan, and Julesburg, and are fair.

Diversions for storage and irrigation above station.

SOUTH PLATTE RIVER AT JULESBURG, COLORADO

Location - Water stage recorder in Sec. 33, T. 12 N., R. 44 W., at highway bridge ½ mile east of Julesburg, Colorado, and 4 miles upstream from Colorado-Nebraska State line. (Three water stage recorders on three channels. At extreme highwater stages all channels merge into one.)

Drainage Area - 22,800 square miles. Zero of gage on main channel is 3,446.76 feet above mean sea level, datum of 1929. Other two gages at datum 1.00 foot higher.

Records Available - April 2, 1902 to November 16, 1906, May 12, 1908 to November 30, 1912, April 8, 1914 to September 30, 1946.

Maximum discharge during period 1902-1906, 1908-1912, 1914-1946, 31,300 second feet, June 2, 1935, from rating curve extended above 16,000 second feet.

Maximum Discharge - Year 1945 - 1,960 second feet, August 15.

Maximum Discharge - Year 1946 - not determined, occurred during ice period.

Accuracy - Records considered good. They represent the flow passing the Colorado-Nebraska state line.

Diversions for irrigation and storage above station.

TARRYALL CREEK NEAR LAKE GEORGE, COLORADO

Location - Water stage recorder in Sec. 22, T. 11 S., R. 72 W., at McLaughlin's Ranch eight miles northwest of Lake George, and approximately 5 miles upstream from the mouth. Prior to November 8, 1940, recorder located at site 250 feet downstream.

Drainage Area - 460 square miles.

Records Available - October, 1910 to June, 1912, June 19, to October 26, 1916, April 1, 1925 to September 30, 1946.

Maximum discharge during period 1910-1912, 1916, 1925-1946, that of August 5, 1945.

Maximum Discharge - Year 1945 - 685 second feet, August 5, from rating curve extended above 470 second feet. Gage height 5.12 feet.

Maximum Discharge - Year 1946 - 212 second feet, July 29. Gage height 2.89 feet.

Accuracy - Records considered good except those for periods of no gage-height record, November 21-30, 1945, April 1-18, 1946, May 13-15, July 15-24, which were computed on basis of discharge measurements, weather records, and are fair.

Diversions for irrigation above station.

COOSE CREEK ABOVE LAKE CHEESMAN, COLORADO
(KNOWN ALSO AS LOST PARK CREEK)

Location - Water stage recorder and compound rectangular weir in Sec. 3, T. 10 S., R. 71 W., 1 mile upstream from high-water line of Lake Cheesman.

Drainage Area - 86 square miles. Altitude 6,835 feet above mean sea level.

Records Available - October, 1924 to September 30, 1946. Acre foot estimates 1909 to date.

Maximum discharge during period 1924-1946 - 464 second feet, May 30, 1942, from rating curve extended above 75 second feet on basis of weir formula. Gage height 4.57 feet.

Maximum Discharge - Year 1945 - 331 second feet, August 3. Gage height 3.34 feet.

Maximum Discharge - Year 1946 - 74 second feet, August 24. Gage height 1.71 feet.

Accuracy - Records considered good except those for period of no gage-height record, October 20, 21, 27-28, November 3, 4, November 9, 1944 to April 21, 1945, July 14, September 13-15, October 2-5, 24-26, November 4, 1945 to March 29, 1946, June 17-19, September 18-21, 1946, computed on basis of record for Lake Cheesman, and are fair.

NORTH FORK OF SOUTH PLATTE RIVER AT GRANT, COLORADO

Location - Staff gage in NW¼ Sec. 9, T. 7 S., R. 74 W., 300 feet west of Grant (Oleva post office) and 400 feet downstream from Geneva Creek.

Drainage Area - 130 square miles.

Records Available - June 19, 1942 to September 30, 1946. July, 1908 to November, 1913 at site 2 miles downstream, published as North Fork South Platte River at Casselle.

Maximum discharge observed during period 1942-1946 - 515 second feet, June 9, 1944, from rating curve extended above 275 second feet.

Maximum Discharge Observed - Year 1945 - 465 second feet, June 25, from rating curve extended above 275 second feet. Gage height 2.40 feet.

Maximum Discharge Observed - Year 1946 - 261 second feet, June 6, 8. Gage height 1.98 feet.

Accuracy - Records considered fair. Staff gage read twice daily.

A few small diversions for irrigation above station. Flow somewhat regulated by reservoirs.

NORTH FORK OF SOUTH PLATTE RIVER AT PINE, COLORADO

Location - Staff gage in SE¼ Sec. 26, T. 7 S., R. 71 W., at Bryn Mawr Ranch, 600 feet downstream from Elk Creek and ½ mile east of Pine.

Drainage Area - 374 square miles.

Records Available - July 1, 1942 to September 30, 1946 (Discontinued).

Maximum discharge observed during period 1942-1946 - That of August 14, 1945.

Maximum Discharge Observed - Year 1945 - 1,040 second feet, August 14, from rating curve extended above 600 second feet. Gage height 3.30 feet.

Maximum Discharge Observed - Year 1946 - 293 second feet, June 7, 19. Gage height 2.02 feet.

Accuracy - Records considered fair. Staff gage read twice daily.

Diversions for irrigation above station.

NORTH FORK OF SOUTH PLATTE RIVER AT SOUTH PLATTE, COLORADO

Location - Water stage recorder in Sec. 25, T. 7 S., R. 70 W., 1/3 mile west of South Platte.

Drainage Area - 484 square miles. Zero of gage is 6,090.55 feet above mean sea level, adjustment of 1912.

Records Available - January 4, 1909 to September 30, 1910. April 1, 1913 to September 30, 1946.

Maximum discharge during period 1909-1910, 1913-1946 - 1,910 second feet, June 8, 1921, from rating curve extended above 1,400 second feet. Gage height 5.90 feet.

Maximum Discharge - Year 1945 - 1,360 second feet, August 31, from rating curve extended above 650 second feet. Gage height 4.66 feet.

Maximum Discharge - Year 1946 - 350 second feet, June 19. Gage height 2.93 feet.

Accuracy - Records considered good except those during periods of ice effect or no gage-height record, November 27, 1944 to March 21, 1945, June 22-28, July 20-27, August 28 to September 23, 1945, October 17-26, December 13, 1945 to March 20, 1946, May 25-28, 1946, which were computed on basis of discharge measurements, weather records, and are fair.

Diversions for irrigation above station.

DEER CREEK NEAR LITTLETON, COLORADO

Location - Staff gage in NE¼ Sec. 8, T. 6 S., R. 69 W., at Deer Creek Park 2½ miles downstream from Blue Jay Creek, and 7½ miles southwest of Littleton.

Drainage Area - 21.8 square miles. Zero of gage is 5683.00 feet above mean sea level, unadjusted.

Records Available - June 18, 1942 to September 30, 1946 (Discontinued).

Maximum discharge observed during period 1942-1946 - 162 second feet, May 9, 1944. Gage height 2.90 feet.

Maximum Discharge Observed - Year 1945 - 42 second feet, June 25. Gage height 2.00 feet.

Maximum Discharge Observed - Year 1946 - 33 second feet, September 7. Gage height 2.00 feet.

Accuracy - Records considered poor, gage read twice daily.

No diversions for irrigation above station.

PLUM CREEK NEAR SEDALIA, COLORADO

Location - Water stage recorder in SE¼ Sec. 15, T. 7 S., R. 68 W., 1 mile west of Sedalia, and 1 mile downstream from Jarre Creek, 150 feet upstream from Lambert Bridge on Indian Creek Road to Lehigh.

Drainage Area - 273 square miles. Zero of gage is 5,722.81 feet above mean sea level, datum of 1929.

Records Available - June 18, 1942 to September 30, 1946.

Maximum discharge during period 1942-1946 - 7,700 second feet, August 8, 1945, by slope area method. Gage height 6.52 feet.

Maximum Discharge - Year 1945 - 7,700 second feet, August 8, by slope area method. Gage height 6.52 feet.

Maximum Discharge - Year 1946 - 431 second feet, August 24. Gage height 3.33 feet.

Accuracy - Records considered fair.

Diversions for irrigation above station.

BEAR CREEK AT MORRISON, COLORADO

Location - Water stage recorder in SE¼ Sec. 35, T. 4 S., R. 70 W., just upstream from main Turkey Creek Canon highway bridge at Morrison. Mount Vernon Creek enters ½ mile downstream. During period October, 1919 to September, 1934, water stage recorder located at Idledale (Starbuck) 3 miles upstream, records comparable.

Drainage Area - 165 square miles. Zero of gage is 5,780.58 feet above mean sea level, adjustment of 1912.

Records Available - April, 1888 to September, 1891, May, 1895 to March, 1902, October, 1919 to September 30, 1946.

Maximum discharge during period 1888-1891, 1895-1902, 1919-1946 - 8,600 second feet, July 24, 1896 (estimated). Gage height 10.90 feet.

Maximum Discharge - Year 1945 - 375 second feet, August 20. Gage height 4.58 feet.

Maximum Discharge - Year 1946 - 152 second feet, August 24. Gage height 4.20 feet.

Accuracy - Records considered good above 20 second feet and fair below.

Small diversions for irrigation above station.

BEAR CREEK AT MOUTH, AT SHERIDAN, COLORADO

Location - Water stage recorder in NE¼ Sec. 5, T. 5 S., R. 68 W., ½ mile southwest of Sheridan and 3/4 mile upstream from mouth.

Drainage Area - 265 square miles. Zero of gage is 5,282.95 feet above mean sea level, adjustment of 1912.

Records Available - April 1 to November 30, 1914, February 23, 1927 to September 30, 1946.

Maximum discharge during period 1914, 1927-1946 - 3,000 second feet (slope area measurement), July 7, 1933. Gage height 6.95 feet.

Maximum Discharge - Year 1945 - 1,410 second feet, August 20, from rating curve extended above 500 second feet. Gage height 5.88 feet.

Maximum Discharge - Year 1946 - 1,580 second feet, August 24, from rating curve extended above 500 second feet.

Accuracy - Records considered good. During periods of ice effect and no gage-height records, November 25-December 2, December 9-16, December 24, 1944 to January 4, 1945, January 12, 13, 22, 23, January 30 to February 3, March 6-9, November 21-24, December 8-22, 1945, January 10-12, 31 to February 1, 1946, July 14-19, discharge computed on basis of discharge measurements, weather records, and are fair.

Diversions for storage and irrigation above station.

TURKEY CREEK NEAR MORRISON, COLORADO

Location - Staff gage in NE¼ Sec. 12, T. 5 S., R. 70 W., .2 miles upstream from mouth and 2 miles southeast of Morrison.

Drainage Area - 49.4 square miles. Zero of gage is 5,717.62 feet above mean sea level, unadjusted.

Records Available - June 19, 1942 to September 30, 1946.

Maximum discharge observed during period 1942-1946 - That of August 24, 1946. Gage height 2.46 feet.

Maximum Discharge Observed - Year 1945 - 18 second feet, June 8. Gage height 1.30 feet.

Maximum Discharge Observed - Year 1946 - 1,200 second feet, August 24, by slope area method. Gage height 5.79 feet.

Accuracy - Records considered poor, with daily staff gage readings.

Diversions for irrigation above station.

CHERRY CREEK NEAR FRANKTOWN, COLORADO

Location - Water stage recorder in Sec. 15, T. 8 S., R. 66 W., at mouth of Wild Cat Canyon, 1.9 miles upstream from Franktown. Russellville Gulch enters from right 1 mile downstream. Ruins of Castlewood Dam 1.5 miles upstream.

Drainage Area - 172 square miles. Zero of gage is 6,147.53 feet above mean sea level.

Records Available - November 21, 1939 to September 30, 1946.

Maximum discharge during period 1939-1946 - 9,170 second feet, August 5, 1945, by float measurement. Gage height 4.91 feet. Highest known flood occurred August 3, 1933 by failure of Castlewood Dam.

Maximum Discharge - Year 1945 - 9,170 second feet, August 5, by float measurement. Gage height 4.91 feet.

Maximum Discharge - Year 1946 - 1,470 second feet, August 24. Gage height 4.77 feet.

Accuracy - Records considered fair. Record for periods of ice effect, November 25-28, December 10-16, 23-31, 1944, January 1-3, 15, 16, 21-31, February 12, 22-28, March 1, 2, 5, 8, 1945, December 14-18, 28, 30, 31, 1945, January 1, 2, 5-14, 1946, February 8-17, 1946, computed on basis of weather records.

Diversions for irrigation above station.

CHERRY CREEK NEAR MELVIN, COLORADO

Location - Water stage recorder in NW¼ Sec. 19, T. 5 S., R. 66 W., 400 feet downstream from South Cherry or Piney Creek and 1½ miles southeast of Melvin. Kenwood flood control dam located 4 miles downstream.

Drainage Area - 369 square miles. Zero of gage is 5,608.96 feet above mean sea level (State Highway bench mark).

Records Available - November 23, 1939 to September 30, 1946.

Maximum discharge during period 1939-1946 - That of July 18, 1946.

Maximum Discharge - Year 1945 - 10,700 second feet, August 5, by float measurement. Gage height 6.50 feet.

Maximum Discharge - Year 1946 - 17,600 second feet, July 18, by extension of rating curve. Gage height 7.45 feet.

Accuracy - Records considered fair. Ice effect periods, November 25, 1944 to February 6, 1945, February 18-20, 27, 28, March 5, 6, December 11-31, 1945, January 1, 2, 13-19, 24, 25, 28, 29, 1946, computed on basis of discharge measurements and weather records.

Diversions for irrigation above station.

CHERRY CREEK AT DENVER, COLORADO

Location - Wire-weight gage in NE¼ Sec. 10, T. 4 S., R. 68 W., at Washington Street and Speer Boulevard in Denver, 3 miles upstream from mouth. Prior to January 23, 1945, site 3,200 feet downstream.

Drainage Area - 420 square miles. Zero of gage is 5,[illegible].65 feet above mean sea level,

Records Available - August 11, 1942 to September 30, 1946.

Maximum discharge recorded, 20,000 second feet, July 26, 1885, by float measurement.

Maximum discharge during period 1942-1946 - That of August 5, 1945.

Maximum Discharge - Year 1945 - 3,120 second feet, August 5. Gage height 5.25 feet.

Maximum Discharge - Year 1946 - 1,800 second feet, July 18. Gage height 3.69 feet.

Accuracy - Records considered fair. Gage read twice daily.

Diversions for irrigation above station. Flood flow regulated by Kenwood dam 7 miles upstream from station.

CLEAR CREEK NEAR LAWSON, COLORADO

Location - Water stage recorder in NE¼ Sec. 27, T. 3 S., R. 74 W., about 1 mile upstream from bridge on west side of Lawson and 0.3 mile downstream from junction of Clear Creek and the West Fork of Clear Creek.

Drainage Area - 144 square miles. Zero of gage is 8199.32 feet above mean sea level.
Records Available - March 29 to September 30, 1946.
Maximum Discharge - Year 1946 - 850 second feet, June 6. Gage height 4.70 feet.
Accuracy - Records considered good.
No diversions above station. Williams Fork Tunnel and Berthoud Pass Ditch discharge water from Williams Fork and Fraser River into basin above station.

CLEAR CREEK NEAR GOLDEN, COLORADO

Location - Water stage recorder in Sec. 32, T. 3 S., R. 70 W., 1½ miles upstream from Golden. Welch Ditch diverts water upstream from station. Beaver Creek enters from south approximately 3 miles upstream. ~~Prior to August 30, 1941, at datum 2.00 feet higher.~~
Drainage Area - 392 square miles. Zero of gage is 5,735.27 feet above mean sea level, adjustment of 1912. Prior to August 30, 1941, at datum 2.00 feet higher.
Records available - December 4, 1908 to December 31, 1909, June to September, 1911, January 26, 1912 to September 30, 1946. Williams Fork Tunnel diverts water from Williams Fork River, into Clear Creek above station. Records since May 10, 1940 equivalent to earlier records if flow through Williams Fork Tunnel is subtracted from flow past station.
Maximum discharge during period 1908-1909, 1911-1946 - 5,890 second feet, September 9,1933, by slope area method. Gage height 7.97 feet, datum then in use. Maximum discharge known - 8,700 second feet, August 1, 1888.
Maximum Discharge - Year 1945 - 1,200 second feet, August 2. Gage height 5.00 feet.
Maximum Discharge - Year 1946 - 1,010 second feet, July 15. Gage Height 4.67 feet.
Accuracy - Records considered good, except those for periods of ice effect and no gage-height record, November 25, 1944 to February 14, 1945, April 17-18, and December 2, 1945 to March 22, 1946, May 24-27, which were computed on basis of discharge measurements and weather records, and are fair.
Diversions from Williams Fork River into Clear Creek:

Water Year 1945	Acre Feet	Water Year 1946	Acre Feet
		May	1,110
June	2,300	June	5,910
July	5,550	July	2,800
August	2,560	August	842
September	641	September	337
Total	11,050		11,000

Diversions from Fraser River into Clear Creek

None During 1945		June	130
		July	235
		August	32
		Total	397

Diversions for irrigation above station.

CLEAR CREEK AT MOUTH NEAR ADAMS CITY, COLORADO

Location - Water stage recorder in SW¼ Sec. 36, T. 2 S., R. 68W., at highway bridge 0.6 miles south of Welby, ½ mile upstream from mouth and 1½ miles west of Adams City.

Drainage Area - 600 square miles.

Records Available - April 1, 1914 to November 30, 1914, February 25, 1927 to September 30, 1946.

Maximum discharge during period 1914, 1927-1946 - 3,650 second feet, September 3, 1938, from rating curve extended above 1,200 second feet. Gage height 4.04 feet, site and datum then in use.

Maximum Discharge - Year 1945 - 747 second feet, July 20. Gage height 4.02 feet.

Maximum Discharge - Year 1946 - 644 second feet, June 7. Gage height 3.53 feet.

Accuracy - Records good, except those for periods of ice effect or no gage-height record, November 25-30, 1944, December 1-4, 10-18, 29-31, January 1-4, 19, 20, 26, 27, February 2, 3, 10, 11, 16-18, 21-24, March 2, 3, 6, 7, 1945, December 9-31, January 6-24, 1946, January 27 to February 2, 9-13, 17-20, which were computed on basis of discharge measurements and weather records, and are fair.

Diversions above station for irrigation. Transmountain diversions into basin. Flow slightly regulated by storage for irrigation. Water diverted into stream from Moffat Tunnel, some of which, together with that from Williams Fork River, passes station into South Platte River.

WEST FORK OF CLEAR CREEK ABOVE EMPIRE, COLORADO

Location - Staff gage in Sec. 29, T. 3 S., R. 74 W., at Glen Arbor Resort, 200 feet downstream from mouth of Mad Creek and 1 mile west of Empire.

Drainage Area - 39.9 square miles. Zero of gage is 8,605.22 feet above mean sea level, adjustment of 1912.

Records Available - August 7, 1942 to September 30, 1946 (Discontinued).

Maximum discharge observed during period 1942-1946 - That of June 24, 1945.

Maximum Discharge Observed - Year 1945 - 755 second feet, June 24. Gage height 3.80 feet.

Maximum Discharge Observed - Year 1946 - 555 second feet, June 11, 12. Gage height 3.30 feet.

Accuracy - Records considered fair. Staff gage read twice daily.

Transmountain diversions into basin above station (see record under Clear Creek near Golden.)

NORTH ST. VRAIN CREEK AT LONGMONT DAM, NEAR LYONS, COLORADO

Location - Water stage recorder in Sec. 16, T. 3 N., R. 71 W., 3/4 mile upstream from Longmont Dam and 4 miles west of Lyons. City of Longmont diverts water below station.

Drainage Area - 109 square miles. Altitude 6,080 feet above mean sea level.

Records Available - 1913-1917 (partial records) October, 1922 to April, 1923, October, 1925 to September 30, 1946.

Maximum discharge during period 1925-1946 - 1,210 second feet, June 22, 1941 by computation of flow over dam. Gage height 6.09 feet.

Maximum Discharge - Year 1945 - 713 second feet, June 24. Gage height 4.42 feet.

Maximum Discharge - Year 1946 - 446 second feet, June 7. Gage height 3.89 feet.

Accuracy - Records considered good. Winter flow measured through Cippoletti weir.

Diversions for storage above station.

ST. VRAIN CREEK AT LYONS, COLORADO

Location - Water stage recorder in Sec. 17, T. 3 N., R. 70 W., 300 feet downstream from junction of North and South St. Vrain Creeks, and 3/4 mile east of Lyons.

Drainage Area - 226 square miles. Altitude 5,349 feet above mean sea level.

Records Available - August, 1887 to October 31, 1891, June 13, 1895 to September 30, 1946.

Maximum discharge during period 1887-1891, 1895-1946 - 10,500 second feet, June 22, 1941, from rating curve extended above 900 second feet on basis of slope area determination. Gage height 8.06 feet.

Maximum Discharge - Year 1945 - 1,000 second feet, June 25, from rating curve extended above 600 second feet. Gage height 3.30 feet.

Maximum Discharge - Year 1946 - 2,140 second feet, July 18, from rating curve extended above 600 second feet. Gage height 4.32 feet.

Accuracy - Records considered excellent above 20 second feet and good below, except those for periods of no gage-height record, which are fair, December 1-24, 1944, March 1, 2, 7-17, 21-23, August 1, 17, September 4-6, 18, 19, 1945, October 27-29, November 1, 7-10, 1945, and September 10, 11, 1946.

Diversions above station for irrigation and flow partly regulated by several reservoirs.

ST. VRAIN CREEK AT MOUTH NEAR PLATTEVILLE, COLORADO

Location - Water stage recorder in Sec. 3, T. 3 N., R. 67 W., at highway bridge 1 mile upstream from mouth, and 4 miles northwest of Platteville.

Drainage Area - 1,000 square miles.

Records Available - April 1 to December 31, 1915, February 24, 1927 to September 30, 1946.

Maximum discharge during period 1915, 1927-1946 - 11,300 second feet, September 3, 1938, from rating curve extended above 4,800 second feet. Gage height 8.93 feet.

Maximum Discharge - Year 1945 - 1,230 second feet June 26. Gage height 4.28 feet.

Maximum Discharge - Year 1946 - 1,820 second feet, July 18. Gage height 4.99 feet.

Accuracy - Records considered good except those for periods of ice effect or no gage-height record, November 16, 17, 1944, November 21 to December 7, December 9 to February 4, 1945, April 14-16, June 2, July 11, 12, 1945, which were computed on basis of discharge measurements, weather records, and comparison with records of nearby streams, and are fair.

Diversions for irrigation above station.

BOULDER CREEK NEAR ORODELL, COLORADO

Location - Water stage recorder in Sec. 34, T. 1 N., R. 71 W., ¼ mile downstream from Public Service power house, and 1 mile upstream from Fourmile Creek, and old Orodell.

Drainage Area - 105 square miles. Altitude 5,800 feet above mean sea level.

Records Available - August, 1887 to October, 1888, March 1907 to December, 1914, February, 1916 to September 30, 1946. Prior to 1917, station maintained at site 1 mile downstream.

Maximum discharge during period 1887-1888, 1907-1914, 1916-1946 - 2,500 second feet June 6, 1921. Gage height 4.31 feet.

Maximum Discharge - Year 1945 - 617 second feet, June 26. Gage height 3.32 feet.

Maximum Discharge - Year 1946 - 469 second feet, June 18. Gage height 3.12 feet.

Accuracy - Records considered excellent except those for periods of no gage height record, October 13, 14, 1944, December 18, 1944, January 13, February 3, March 24, May 5, June 29, 30, July 13, 14, December 14, 15, 19-21, 1945, August 10, September 20, 21, 1946, which were computed on basis of K.W.H. output of power plant and weather records, and are fair.

Diversions for storage and irrigation above station. Flow regulated by Barker Meadow Reservoir, capacity 11,500 acre feet. Low water flow regulated by operation of power plant ¼ mile above station.

BOULDER CREEK AT MOUTH NEAR LONGMONT, COLORADO

Location - Water stage recorder in NE¼, Sec. 17, T. 2 N., R. 68 W., 1½ miles upstream from mouth and 5 miles southeast of Longmont.

Drainage Area - 512 square miles.

Records Available - March 16, 1927 to September 30, 1946.

Maximum discharge during period 1927-1946 - 4,410 second feet, September 3, 1938, by slope-area method. Gage height 6.94 feet, site and datum then in use.

Maximum Discharge - Year 1945 - 702 second feet, May 30. Gage height 3.51 feet.

Maximum Discharge - Year 1946 - 178 second feet, July 19. Gage height 2.39 feet.

Accuracy - Records considered fair. Those for periods of ice effect or no gage-height record, December 1-19, 1944, December 27 to January 5, 1945, January 18, 19, 21, April 27-30, May 1-4, 21-25, December 17-20, 1945, January 24, 25, February 9-13, June 12, 14, 1946, were computed on basis of discharge measurements and weather records.

Diversions for storage and irrigation above station.

MIDDLE BOULDER CREEK AT NEDERLAND, COLORADO

Location - Water stage recorder and compound sharp crested weir in NE¼ SE¼ Sec. 13, T. 1 S., R. 73 W., at Nederland, just downstream from North Beaver Creek and immediately above high water line of Barker Meadow Reservoir.

Drainage Area - 35.5 square miles. Zero of gage is 8,183.50 feet above mean sea level.

Records Available - June, 1907 to September, 1940, May, 1945 to September 30, 1946.

Maximum discharge observed during period 1907-40, 1945-46 - 811 second feet June 2, 1914. Gage height 5.37 feet.

Maximum Discharge - Year 1945 - 491 second feet, June 25. Gage height 4.14 feet.

Maximum Discharge - Year 1946 - 346 second feet, June 17. Gage height 3.68 feet.

Accuracy - Records considered good except those for periods of no gage-height record, September 11-15, December 28, 1945, January 24, 27, 28, 30, 31, February 5, 6, 9, 13, 14, March 8, September 25-29, 1946, which were computed on basis of weather records and comparison with nearby stations, and which are fair.

No diversions for irrigation above station.

SOUTH BOULDER CREEK NEAR ROLLINSVILLE, COLORADO

Location - Water stage recorder in Sec. 36, T. 1 S., R. 73 W., at highway bridge, 500 feet downstream from Moon Gulch and ¼ mile south of Rollinsville.

Drainage Area - 43.1 square miles.

Records Available - September, 1910 to May, 1918 at site 3/4 mile upstream, May, 1945 to September 30, 1946.

Maximum Discharge - Year 1945 - 703 second feet, June 28. Gage height 4.90 feet.

Maximum Discharge - Year 1946 - 696 second feet, June 10. Gage height 4.78 feet.

Accuracy - Records considered good except for period of no gage-height record, May 6-8, 15-22, 29 to June 5, June 11, 26, 1945, October 25 to November 4, November 20, 1945 to March 31, 1946, April 23-30, May 2-5, August 15, 19, 1946, which were computed on basis of 5 discharge measurements, weather records, and comparison with nearby streams.

Transmountain diversion by Moffat Tunnel enters above station.

Moffat Tunnel Diversion into South Boulder Creek

Water Year 1945	Acre Feet	Water Year 1946	Acre Feet
October	869	October	1,310
November	165	April	1,410
May	3,580	May	5,500
June	12,680	June	13,640
July	9,800	July	6,000
August	6,930	August	2,890
September	2,580	September	1,870
Totals	36,600		32,620

SOUTH BOULDER CREEK NEAR ELDORADO SPRINGS, COLORADO

Location - Water stage recorder in Sec. 26, T. 1 S., R. 71 W., 1½ miles west of Eldorado Springs, and 1 mile upstream from Community Ditch dam.

Drainage Area - 114 square miles.

Records Available - April 6, 1888 to October, 1892, May, 1895 to September, 1901, July, 1904 to 1946. Station maintained at Marshall, 4 miles downstream, from 1888 to 1892, 1896 to 1901, 1904 to 1908, and at Eldorado Springs from 1909 to 1945. All records were corrected for diversions before publishing, making them comparable. The transmountain diversion of the Moffat Tunnel from the Colorado River enters the basin; however, most of the water is diverted approximately 1½ miles upstream from the station. Some of the water passes the gage.

Maximum discharge during period 1888-1892, 1895-1901, 1904-1946 - 7,390 second feet, September 2, 1938, by slope-area method. Gage height 9.24 feet from flood marks, site and datum then in use.

Maximum Discharge - Year 1945 - 558 second feet, June 25. Gage height 4.15 feet.

Maximum Discharge - Year 1946 - 568 second feet, June 15. Gage height 4.09 feet.

Accuracy - Records considered excellent above 50 second feet and good below, except those for periods of ice effect and no gage-height record, November 16, 1944 to April 21, 1945, November 9, 1945 to April 2, 1946, which were computed on basis of 10 discharge measurements, weather records, and are fair.

Diversions for irrigation and City of Denver also diverts Moffat Tunnel water above station.

BIG THOMPSON RIVER NEAR ESTES PARK, COLORADO

Location - Water stage recorder in Sec. 29, T. 5 N., R. 72 W., 1½ miles east of Estes Park at old highway bridge.

Drainage Area - 158 square miles. Zero of gage is 7,412.04 feet above mean sea level.

Records Available - June, 1930 to September 30, 1946. Prior to February, 1934, station was maintained 1½ miles downstream. Records are comparable.

Maximum discharge during period 1930-1946 - 1,590 second feet, June 16, 1935, from rating curve extended above 750 second feet. Gage height 5.54 feet.

Maximum Discharge - Year 1945 - 908 second feet, June 24. Gage height 4.18 feet.

Maximum Discharge - Year 1946 - 739 second feet, June 7. Gage height 3.87 feet.

Accuracy - Records considered excellent, except those for periods of ice effect or no gage height record, November 14, 1944 to April 25, 1945, November 8, 1945 to March 28, 1946, July 15 to August 13, 1946, which were computed on basis of discharge measurements, weather records, and comparison with record at lower station, and are fair.

Diversions for irrigation above station. One small transmountain diversion from Colorado River into basin, the Eureka Ditch diverted 186 acre feet in 1945 and 152 acre feet in 1946.

BIG THOMPSON RIVER BELOW POWER HOUSE NEAR DRAKE, COLORADO

Location - Water stage recorder in NW¼ Sec. 7, T. 5 N., R. 70 W., ½ mile below City of Loveland hydro-electric plant, and 4½ miles east of Drake. Cedar Creek enters 1/8 mile downstream.

Drainage Area - 277 square miles.

Records Available - October 1, 1928 to September 30, 1946. From September, 1917 to December, 1926, station at site 3 miles upstream. Records are comparable.

Maximum discharge during period 1917-1926, 1929-1946 - 8,000 second feet, July 31, 1919, from rating curve extended above 2,000 second feet. Gage height 9.5 feet, site and datum then in use.

Maximum Discharge - Year 1945 - 1,230 second feet, June 25, from rating curve extended above 950 second feet. Gage height 4.04 feet.

Maximum Discharge - Year 1946 - 882 second feet, June 18. Gage height 3.53 feet.

Accuracy - Records considered good except those for period of no gage-height record, December 30, 1944 to January 1, 1945, April 1-5, May 1, 4, 5, August 9, 1946 to September 30, 1946, which were computed on basis of discharge measurements and comparison with nearby records and which are fair.

Diversions for irrigation above station. Small reservoir above power plant, capacity, 30 acre feet.

BIG THOMPSON RIVER AT MOUTH OF CANYON NEAR DRAKE, COLORADO

Location - Water stage recorder in NW¼ Sec. 10, T. 5 N., R. 70 W., just upstream from mouth of canyon, 450 feet upstream from Handy Ditch diversion dam, and 6½ miles east of Drake. From 1926 to 1933 station was maintained at site ½ mile upstream, records are equivalent.

Drainage Area - 302 square miles. Zero of gage is 5,302.28 feet above mean sea level, U.S.B.R. bench mark.

Records Available - 1926 to 1933, April 19, 1938 to September 30, 1946.

Maximum discharge during period 1926-1933, 1938-1946 - That of July 19, 1945.

Maximum Discharge - Year 1945 - 7,600 second feet, July 19, from rating curve extended above 1,100 second feet. Gage height 7.55 feet.

Maximum Discharge - Year 1946 - 1,680 second feet, July 19. Gage height 4.00 feet.

Accuracy - Records considered excellent except those for periods of ice effect or no gage-height record, November 15, 1944 to March 16, 1945, April 2-5, 30, May 1, 2, September 27-30, October 8-11, 18, 19, November 8, 1945 to March 13, 1946, March 18-22, 1946, which were computed on basis of discharge measurements, weather records, and comparison with records for Big Thompson River below power house, and are fair.

Diversions for irrigation above station.

BIG THOMPSON RIVER AT MOUTH NEAR LA SALLE, COLORADO

Location - Water stage recorder in SW¼ Sec. 34, T. 5 N., R. 66 W., at first bridge across Big Thompson River 1 mile upstream from mouth and 4 miles west of LaSalle.

Drainage Area - 818 square miles.

Records Available - April 1 to November 30, 1914, March 1, 1927 to September 30, 1946.

Maximum discharge during period 1914, 1927-1946 - 3,000 second feet September 3, 1938, by slope area method. Gage height 7.31 feet.

Maximum Discharge - Year 1945 - 301 second feet, June 25. Gage height 3.30 feet.

Maximum Discharge - Year 1946 - 758 second feet, July 20. Gage height 5.58 feet.

Accuracy - Records cohsidered excellent above 40 second feet and good below. Those for periods of ice effect, December 22, 26, 1944, February 1-3, December 11, 1945, and for period of no gage-height record, November 27, 28, 1944, December 19-22, 1945, were computed on basis of discharge measurements, weather records, and comparison with record of nearby stations, and are fair.

Diversions for irrigation above station. Flow regulated by several reservoirs above station.

CACHE LA POUDRE RIVER BELOW ELKHORN CREEK, COLORADO

Location - Water stage recorder in SW¼ Sec. 35, T. 9 N., R. 72 W., and 0.6 mile downstream from Elkhorn Creek, 35 miles northwest of Fort Collins on State Highway 14.

Drainage Area - 1048 square miles.

Zero of gage is 6,447.09 feet above mean sea level.

Records Available - April 23 to September 30, 1946.

Maximum Discharge - Year 1946 - 3,020 second feet, June 7. Gage height 4.90 feet.

Accuracy - Records considered good.

Diversions for irrigation and storage above station. Transmountain diversions from Colorado, Laramie, and Michigan Rivers enter above station. Flow of stream controlled by several ~~small~~ reservoirs above station.

CACHE LA POUDRE RIVER AT MOUTH OF CANYON NEAR FT. COLLINS, COLORADO

Location - Water stage recorder in Sec. 15, T. 8. N., R. 70 W., at mount of canyon, 3/4 mile upstream from Lewstone Creek, 3 miles downstream from intake of Ft. Collins water works and 11 miles west of Fort Collins. North Fork enters 3 miles upstream from gage.

Drainage Area - 1,048 square miles. Altitude 5,070 feet above mean sea level.

Records Available - June 20, 1881 to August 5, 1881, March 15, 1884 to September 30, 1946.

Maximum discharge determined during period 1884-1946 - 10,200 second feet, May 31, 1930. Gage height 7.90 feet. Greatest maximum discharge known occurred May 20, 1904, discharge not determined. Flood of June 9, 1891, caused by failure of Chambers Lake dam, given in biennial report as 21,000 second feet.

Maximum Discharge - Year 1945 - 2,110 second feet, June 25. Gage height 4.10 feet.

Maximum Discharge - Year 1946 - 2,900 second feet, June 7. Gage height 4.64 feet.

Accuracy - Records considered excellent, except those for period of ice effect or no gage-height record, November 26, 1944 to March 8, 1945, September 9, 10, November 21, December 8, 1945 to February 24, 1946, which were computed on basis of discharge measurements and weather records, and are fair.

Diversions for irrigation above station. Transmountain diversions from the Colorado, Laramie, and Michigan Rivers and Sand Creek enter above station. Flow of the stream is controlled by several reservoirs above station.

Transmountain Diversions into Cache La Poudre River Basin
In Acre Feet

	April	May	June	July	August	September	Total
			Water Year 1945				
			From Colorado River Basin				
Grand River Ditch		545	8,850	10,360	3,310	229	23,300
			From North Platte River Basin				
Cameron Pass Ditch		0	116	181	0	0	297
Michigan Ditch		0	834	1,660	596	0	3,090
			From Laramie River Basin				
Bob Creek Ditch		No Diversion					0
Columbine Ditch		No Diversion					0
Deadman Ditch		0	712	60	0	0	772
Laramie-Poudre Tunnel		1,470	5,550	1,580	0	0	8,600
Lost Lake Ditch		No Diversion					0
Skyline Ditch		660	4,920	4,990	0	0	10,570
			From Sand Creek Basin (Into North Fork of Cache La Poudre)				
Divide Ditch		992	2,880	91	0	0	3,960
			Water Year 1946				
			From Colorado River Basin				
Grand River Ditch	93	1,930	10,440	4,520	1,600	239	18,820
			From North Platte River Basin				
Cameron Pass Ditch	0	0	226	36	0	0	262
Michigan Ditch	0	0	1,880	122	18	0	1,940
			From Laramie River Basin				
Bob Creek Ditch	0	77	273	0	0	0	350
Columbine Ditch	0	0	163	0	0	0	163
Deadman Ditch	0	12	921	7	0	0	940
Laramie-Poudre Tunnel	1,180	3,850	4,440	0	0	0	9,470
Lost Lake Ditch		No Diversion					
Skyline Ditch	0	1,290	6,960	841	0	0	9,090
			From Sand Creek Basin (Into North Fork of Cache La Poudre)				
Divide Ditch	320	1,180	2,130	18	0	0	3,650

CACHE LA POUDRE RIVER NEAR MOUTH NEAR GREELEY, COLORADO

Location - Water stage recorder in Sec. 2, T. 5 N., R. 65 W., at highway bridge 2½ miles upstream from mouth and 2 miles east of Greeley.

Drainage Area - 1,840 square miles.

Records Available - March 24, 1903 to November 30, 1940, February 1, 1914 to December 17, 1919, May 27, 1924 to September 30, 1946.

Maximum daily discharge during period 1903-1904, 1914-1919, 1924-1946 - 4,220 second feet, June 24 and 26, 1917. Gage height 7.30 feet, site and datum then in use.

Maximum Discharge - Year 1945 - 379 second feet, May 30. Gage height 4.22 feet.

Maximum Discharge - Year 1946 - 192 second feet, June 20. Gage height 3.47 feet.

Accuracy - Records considered good except those during periods of no gage-height record, April 4-8, August 29 to September 13, 1945, June 1-17, August 1-7, 1946, which are fair.

Diversions for irrigation above station.

NORTH FORK OF REPUBLICAN RIVER NEAR WRAY, COLORADO

Location - Water stage recorder in SE¼ of NW¼ Sec. 9, T. 1 N., R. 44 W., 2 miles upstream from Chief Creek and 3.3 miles west of Wray.

Records Available - March 23, 1937 to September 30, 1946 (Discontinued).

Maximum discharge during period 1937-1946 - 270 second feet, July 13, 1938, from rating curve extended above 150 second feet. Gage height 9.82 feet.

Maximum Discharge - Year 1945 - 80 second feet, September 28. Gage height 6.73 feet.

Maximum Discharge - Year 1946 - 234 second feet, July 7. Gage height 8.82 feet.

Accuracy - Records considered good except those for periods of no gage-height record, October 15, 16, December 1, 25, 1944, April 17, 1945 May 21, 29-to June 4, July 16-31, August 16-20, 27, 1945, and August 26-28, 1946, which were computed on basis of discharge measurements and weather records, and are fair.

Diversions for irrigation above station.

NORTH FORK OF REPUBLICAN RIVER AT COLORADO-NEBRASKA STATE LINE

Location - Water stage recorder in Sec. 10, T. 1 N., R. 42 W., 100 feet east of Colorado-Nebraska State line.

Zero of gage is 3,336.09 feet above mean sea level, datum of 1929.

Records Available - March, 1931 to September 30, 1946.

Maximum discharge during period 1931-1946 - 1,220 second feet, September 3, 1940, from rating curve extended above 340 second feet. Gage height 5.72 feet.

Maximum Discharge - Year 1945 - 245 second feet, September 27. Gage height 2.94 feet.

Maximum Discharge - Year 1946 - 210 second feet, July 8. Gage height 3.05 feet.

Accuracy - Records considered good except those for periods of no gage-height record, May 13-19, December 12-28, 1945, which are poor.

Diversions for irrigation above station.

GRIZZLY CREEK NEAR WALDEN, COLORADO

Location - Water stage recorder in Sec. 29, T. 8 N., R. 80 W., at bridge on State Highway 14, 10 miles southwest of Walden and ½ mile upstream from Little Grizzly Creek.

Drainage Area - 252 square miles.

Records Available - May, 1904 to October, 1905, May to September, 1923, October, 1926 to September 30, 1946.

Maximum discharge during period 1904-1905, 1923, 1926-1946 - 1,340 second feet, June 10, 1923, from rating curve extended above 500 second feet. Gage height 4.8 feet.

Maximum Discharge - Year 1945 - 716 second feet, May 10. Gage height 4.80 feet.

Maximum Discharge - Year 1946 - 392 second feet, April 29. Gage height 3.48 feet.

Accuracy - Records considered excellent except those below 60 second feet and for periods of ice effect and no gage-height record, April 20-23, October 25 to November 30, 1945, April 1-10, 1946, which were computed on basis of 3 discharge measurements and weather records, and are fair.

Diversions for irrigation above station.

LITTLE GRIZZLY CREEK AT MOUTH NEAR HEBRON, COLORADO

Location - Water stage recorder in Sec. 32, T. 8 N., R. 80 W., 1 mile upstream from junction with Grizzly Creek and 3 miles north of Hebron.

Drainage Area - 96 square miles.

Records Available - June1 1904 to October, 1905, June, 1931 to September 30, 1945 (Discontinued).

Maximum daily discharge during period 1904-1905, 1931-1945 - 592 second feet, June 11, 1905.

Maximum Discharge - Year 1945 - 416 second feet, June 24. Gage height 4.52 feet.

Accuracy - Records considered good except those for period of ice effect, April 20-22, 1945, which are fair.

Diversions for irrigation above station.

ROARING FORK NEAR WALDEN, COLORADO

Location - Water stage recorder in Sec. 11, T. 8 N., R. 81 W., at highway bridge 10 miles southwest of Walden, and 1½ miles upstream from mouth.

Drainage Area - 84 square miles. Zero of gage is 8,037.44 feet above mean sea level, adjustment of 1912.

Records Available - May, 1904 to October, 1905, October, 1923 to September 30, 1946.

Maximum discharge during period 1904-1905, 1923-1946 - 790 second feet, June 15, 1924. Gage height 3.73 feet.

Maximum Discharge - Year 1945 - 515 second feet, June 24. Gage height 3.29 feet.

Maximum Discharge - Year 1946 - 447 second feet, June 17. Gage height 3.00 feet.

Accuracy - Records considered good except for periods of ice effect and no gage-height record, November 9-30, 1945, April 1-20, 1946, which were computed on basis of weather records and records for nearby stations, and are fair.

Diversions for irrigation above station.

NORTH PLATTE RIVER NEAR WALDEN, COLORADO

Location - Water stage recorder in Sec. 6, T. 8 N., R. 80 W., at highway bridge 8 miles southwest of Walden. Roaring Fork enters upstream from station.

Drainage Area - 463 square miles.

Records Available - May 13, 1904 to October 31, 1905, October 1, 1923 to September 30, 1946.

Maximum discharge during period 1904-1905, 1923-1946 - 1,940 second feet, April 19, 1938. Gage height 5.74 feet.

Maximum Discharge - Year 1945 - 1,220 second feet, June 24.

Maximum Discharge - Year 1946 - 1,060 second feet, June 18. Gage height 4.21 feet.

Accuracy - Records considered excellent April 1 to September 30, remainder fair except those for periods of ice effect, April 20-22, 1945, November 9-30, 1945, April 1-5, 1946, and no gage-height record, May 27 to June 1, July 22-27, 1946.

Diversions for irrigation above station.

NORTH PLATTE RIVER NEAR NORTHGATE, COLORADO

Location - Water stage recorder in Sec. 11, T. 11 N., R. 80 W., at highway bridge 6 miles south of Colorado-Wyoming State line, and 6 miles northwest of Northgate.

Drainage Area - 1,440 square miles. Zero of gage 7,806.98 feet above mean sea level, adjustment of 1912.

Records Available - May to November, 1904, May, 1915 to September 30, 1946.

Maximum discharge during period 1904, 1915-1946 - 6,720 second feet, June 11, 1923, from rating curve extended above 4,500 second feet. Gage height 6.24 feet.

Maximum Discharge - Year 1945 - 3,140 second feet, April 23.

Maximum Discharge - Year 1946 - 2,220 second feet, June 19. Gage height 3.71 feet.

Accuracy - Records considered excellent except those for periods of ice effect and no gage-height record, October 1, 1944 to April 23, 1945, November 9, 1945 to April 6, 1946, which were computed on basis of discharge measurements, weather records, and comparison with lower station, and are fair.

Diversions for irrigation above station.

NORTH FORK OF NORTH PLATTE RIVER NEAR WALDEN, COLORADO

Location - Water stage recorder in Sec. 29, T. 9 N., R. 80 W., at Erickson Ranch, ½ mile upstream from mouth and 7 miles west of Walden.

Drainage Area - 168 square miles.

Records Available - October, 1923 to September, 1928, May, 1937 to September 30, 1945 (Discontinued).

Maximum discharge during period 1923-1928, 1937-1945 - 694 second feet, April 19, 1926, from rating curve extended above 220 second feet. Gage height 2.63 feet, former datum.

Maximum Discharge - Year 1945 - 512 second feet, May 2, from rating curve extended above 220 second feet. Gage height 2.99 feet.

Accuracy - Records considered excellent above 200 second feet and good below, except for period of no gage-height record, April 20 to May 1, 1945, which are fair.

Diversions for irrigation above station.

MICHIGAN RIVER AT WALDEN, COLORADO

Location - Water stage recorder in NW¼ Sec. 21, T. 9 N., R. 79 W., ½ mile north of Walden, and 1½ miles upstream from Illinois Creek at old highway bridge near State Highway 125.

Drainage Area - 185 square miles. Zero of gage 8,044.87 feet above mean sea level, adjustment of 1912.

Records Available - May, 1904 to October 31, 1905, June 1, 1908 to July 26, 1918, May 1, 1923 to September 30, 1946.

Maximum discharge during period 1904-1905, 1908-1918, 1923-1946 - 1,070 second feet, June 10, 1923, from rating curve extended above 700 second feet. Gage height 3.3 feet.

Maximum Discharge - Year 1945 - 480 second feet, April 21. Gage height 2.84 feet.

Maximum Discharge - Year 1946 - 318 second feet, June 19. Gage height 2.45 feet.

Accuracy - Records considered good except those for period of ice effect and no gage-height record, April 20-21, 1945, November 8-30, 1945, April 1-6, July 7-20, September 18, 29, 1946, which are fair and were computed on basis of records for nearby stations.

Diversions for irrigation above station.

MICHIGAN RIVER NEAR COWDREY, COLORADO

Location - Water stage recorder in NE¼ Sec. 11, T. 10 N., R. 80 W., 1 mile upstream from mouth and 1½ miles west of Cowdrey.

Drainage Area - 480 square miles. Zero of gage is 7,878.28 feet above mean sea level, adjustment of 1912.

Records Available - May, 1904 to October, 1905, May, 1937 to September 30, 1946.

Maximum discharge during period 1904-1905, 1937-1946 - 1,010 second feet, April 21, 1945, from rating curve extended above 600 second feet. Gage height 4.95 feet.

Maximum Discharge - Year 1945 - 1,010 second feet, April 21, from rating curve extended above 600 second feet. Gage height 4.95 feet.

Maximum Discharge - Year 1946 - 330 second feet, June 20. Gage height 2.74 feet.

Accuracy - Records considered good, except those for periods of ice effect and no gage-height record, April 20-21, November 9-30, 1945, April 1-7, 1946, which were computed on basis of discharge measurements, weather records, and comparison with nearby station records and are fair.

Diversions for irrigation above station.

ILLINOIS CREEK AT WALDEN, COLORADO

Location - Water stage recorder in NW¼ Sec. 29, T. 9 N., R. 79 W., ½ mile southwest of Walden. Prior to July 1, 1937, station located 350 feet upstream at different datum.

Drainage Area - 259 square miles. Zero of gage is 8,038.80 feet above mean sea level, adjustment of 1912.

Records Available - May 1, 1917 to August 31, 1918, May 1, 1923 to September 30, 1946.

Maximum discharge during period 1917-1918, 1923-1946 - 2,520 second feet, May 28, 1926, from rating curve extended above 500 second feet. Gage height 6.40 feet, former site and datum.

Maximum Discharge - Year 1945 - 458 second feet, April 21. Gage height 3.68 feet.

Maximum Discharge - Year 1946 - 170 second feet, June 20. Gage height 2.24 feet.

Accuracy - Records considered good except those for periods of ice effect or no gage-height record, November 13-19, 1944, April 20, November 11-30, 1945, April 1-5, August 4-20, 1946, which were computed on basis of discharge measurements, weather records, and are fair.

Diversions for irrigation above station.

CANADIAN RIVER AT COWDREY, COLORADO

Location - Water stage recorder in Sec. 6, T. 10 N., R. 79 W., 1,000 feet upstream from Government Creek, and ½ mile north of Cowdrey. Prior to November 15, 1931, recorder 600 feet upstream at different datum. One small diversion between these two sites.

Drainage Area - 174 square miles. Zero of gage is 7,869.54 feet above mean sea level, adjustment of 1912.

Records Available - May, 1904 to October, 1905, May, 1929 to November, 1931, May, 1937 to September 30, 1946.

Maximum discharge during period 1904-1905, 1929-1931, 1937-1946 - that of April 22, 1945.

Maximum Discharge - Year 1945 - 784 second feet, April 22. Gage height 5.21 feet.

Maximum Discharge - Year 1946 - 144 second feet, June 8. Gage height 2.60 feet.

Accuracy - Records considered good except for period of no gage-height record, April 20, 21, October 25-27, November 9-30, 1945, April 1-11, 1946, which were computed on basis of discharge measurement, weather records, and are fair.

Diversions for irrigation above station.

LARAMIE RIVER NEAR GLENDEVEY, COLORADO

Location - Water stage recorder in NW¼ Sec. 36, T. 10 N., R. 76 W., 250 feet downstream from Nunn Creek at Sholine Ranch, and 1½ miles north of present location of Glendevey postoffice.

Drainage Area - 101 square miles.

Records Available - June 24, 1904 to October 31, 1905, August 18, 1910 to September 30, 1946.

Maximum discharge during period 1904-1905, 1910-1946 - 2,240 second feet, June 9, 1923, from rating curve extended above 1,350 second feet. Gage height 4.55 feet, site and datum then in use.

Maximum Discharge - Year 1945 - 405 second feet, June 27. Gage height 3.00 feet.

Maximum Discharge - Year 1946 - 584 second feet, June 18. Gage height 3.43 feet.

Accuracy - Records considered excellent except those for period of ice effect and no gage-height record, November 8-9, 1945, November 19, 1945 to March 31, 1946, which were computed on basis of weather records, and are fair.

Diversions above station for irrigation include two large transmountain diversions into Cache la Poudre River. See under Station Record for Cache la Poudre River at Canon Mouth near Fort Collins for diversion records.

LARAMIE RIVER NEAR JELM, WYOMING

Location - Water stage recorder in Sec. 15, T. 12 N., R. 77 W., ½ mile north of Colorado-Wyoming State line, ½ mile upstream from Johnson Creek and 4 miles south of Jelm.

Drainage Area - 297 square miles. Zero of gage is 7,685.32 feet above mean sea level, adjustment of 1912.

Records Available - June, 1904 to October, 1905, May 7, 1911 to September 30, 1946.

Maximum discharge during period 1904-1905, 1911-1946 - 4,200 second feet, June 9, 1923. Gage height 4.15 feet.

Maximum Discharge - Year 1945 - 1,060 second feet, June 5. Gage height 3.29 feet.

Maximum Discharge - Year 1946 - 1,060 second feet, June 7. Gage height 3.29 feet.

Accuracy - Records considered excellent except those for periods of ice effect and no gage-height record, November 12-15, November 17, 1944 to April 20, 1945, and November 8, 1945 to April 4, 1946, which were computed on basis of discharge measurements and weather records, and are fair.

Diversions for irrigation above station.

ARKANSAS RIVER BASIN

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ARKANSAS RIVER AT GRANITE, COLORADO

Location - Water stage recorder in Sec. 31, T. 11 S., R. 79 W., at Granite, just upstream from Cache Creek.

Drainage Area - 431 square miles. Zero of gage is 8,914.86 feet above mean sea level, datum of 1929.

Records Available - April to October, 1895, May 1, 1897 to September 10, 1899, April 6, 1910 to September 30, 1946.

Maximum discharge during period 1895, 1897-1899, 1910-1946 - 2,900 second feet, June 16 1924. Gage height 4.57 feet.

Maximum Discharge - Year 1945 - 1,510 second feet, July 25. Gage height 5.11 feet.

Maximum Discharge - Year 1946 - 2,230 second feet, June 18. Gage height 5.87 feet.

Accuracy - Records considered excellent except those for period of ice effect, November 25, 1944 to March 31, 1945, December 1, 1945 to March 13, 1946, which were computed on basis of seven discharge measurements and comparison with records at Salida, and are fair.

Diversions for storage and irrigation above station. Sugar Loaf and Twin Lakes Reservoirs on tributaries above station, total capacities 72,120 acre feet. The Wurtz Ditch, Ewing Ditch, Busk-Ivanhoe Tunnel, Twin Lakes Tunnel, and Fremont Pass Ditch divert water from Colorado River basin into the Arkansas River basin above the station. The following records show diversions above station into the Arkansas River basin.

Ditch or Tunnel	Stream	Diversions in Acre Feet Water Year 1945	Water Year 1946
Busk-Ivanhoe Tunnel	Frying Pan River	4,900	4,580
Columbine Ditch	Eagle River	1,080	1,260
Ewing Ditch	Eagle River	608	1,020
Wurtz Ditch	Eagle River	2,030	2,200
Fremont Pass Ditch	Ten Mile Creek	0	0
Twin Lakes Tunnel	Roaring Fork	44,780	39,320
Total		53,400	48,450

ARKANSAS RIVER AT SALIDA, COLORADO

Location - Water stage recorder in Sec. 31, T. 50 N., R. 9 E., at Salida, 3 miles upstream from South Arkansas River. Prior to December 3, 1936, station located at site 1½ miles downstream. Records are comparable.

Drainage Area - 1,210 square miles. Zero of gage is 7,051.45 feet above mean sea level, datum of 1929.

Records Available - April 11, 1895 to October 31, 1903, November 3, 1909 to September 30, 1946.

Maximum discharge during period 1895-1903, 1909-1946 - 5,100 second feet June 16, 1924. Gage height 7.2 feet, site and datum then in use.

Maximum Discharge - Year 1945 - 2,580 second feet, July 25. Gage height 3.88 feet.

Maximum Discharge - Year 1946 - 3,160 second feet, June 17. Gage height 4.41 feet.

Accuracy - Records considered excellent.

Diversions for storage and irrigation above station. Flow regulated by Clear Creek Reservoir, capacity 11,440 acre feet, and as in description of station at Granite.

ARKANSAS RIVER AT PARKDALE, COLORADO

Location - Water stage recorder in NE¼ Sec. 18, T. 18 S., R. 71 W., at Parkdale, ½ mile upstream from Copper Gulch and ½ mile downstream from Tallahasee Creek.

Drainage Area - 2,470 square miles.

Records Available - June 1 to September 30, 1946.

Maximum Discharge - Year 1946 - 4,580 second feet, July 15, from rating curve extended above 300 second feet. Gage height 8.12 feet.

Accuracy - Records considered good except those for period of no gage-height record, August 24-26, August 31 to September 24, 28-30, which were computed on basis of records at Salida, and Canon City, and are fair.

Diversions for storage and irrigation above station.

ARKANSAS RIVER AT CANON CITY, COLORADO

Location - Water stage recorder in Sec. 32, T. 18 S., R. 70 W., in Canon City, just upstream from Sand Creek.

Drainage Area - 3,090 square miles. Zero of gage is 5,343.87 feet above mean sea level, datum of 1929.

Records Available - May 1, 1888 to September 30, 1946.

Maximum discharge during period 1888-1946 - 19,000 second feet August 2, 1921, from rating curve extended above 4,000 second feet. Gage height 10.7 feet.

Maximum Discharge - Year 1945 - 7,030 second feet, July 10, from rating curve extended above 5,000 second feet. Gage height 6.99 feet.

Maximum Discharge - Year 1946 - 3,440 second feet, July 15. Gage height 4.51 feet.

Accuracy - Records considered good.

Diversions for irrigation above station. Grape Creek enters from south one mile upstream.

ARKANSAS RIVER AT PORTLAND, COLORADO

Location - Water stage recorder in Sec. 21, T. 19 S., R. 68 W., at lower edge of Portland, 1 mile downstream from mouth of Hardscrabble Creek.

Drainage Area - 4,042 square miles. (Revised) Zero of gage is 5,021.56 feet above mean sea level, datum of 1929.

Records Available - June 1, 1939 to September 30, 1946.

Maximum discharge during period 1939-1946 - 15,980 second feet August 13, 1942, from rating curve extended above 5,000 second feet. Gage height 10.40 feet.

Maximum Discharge - Year 1945 - 7,710 second feet, August 7, from rating curve extended above 5,000 second feet. Gage height 6.86 feet.

Maximum Discharge - Year 1946 - 13,150 second feet, July 15, from rating curve extended above 5,000 second feet. Gage height 9.57 feet.

Accuracy - Records considered good except those during period of no gage-height record, September 1-7, 25-30, 1946, which were computed on basis of one discharge measurement, and comparison with record at upper station, and are fair.

Diversions above station for irrigation and regulation same as for stations at Salida and Granite.

ARKANSAS RIVER NEAR PUEBLO, COLORADO

Location - Water Stage recorder in Sec. 34, T. 20 S., R. 65 W., at intake of South Side water works, 4 miles west of center of Pueblo. Both South Side and North Side water works divert above station, but records include water diverted into North Side intake since October 1, 1934. Dry Creek enters a short distance downstream.

Drainage Area - 4,730 square miles. Zero of gage is 4,689.82 feet above mean sea level, datum of 1929.

Records Available - May 1, 1885 to September 30, 1887, September 19, 1894 to September 30, 1946. Station was maintained at site nine miles upstream from Pueblo in 1887 and 1889.

Maximum discharge during period 1885-1887, 1894-1946 - 103,000 second feet, slope-area measurement, including estimated discharge of Dry Creek 19,500 second feet, June 3, 1921. Gage height 24.66 feet from gage at Pueblo.

Maximum Discharge - Year 1945 - 9,290 second feet, August 14.

Maximum Discharge - Year 1946 - 7,050 second feet, August 27.

Accuracy - Records considered good except those during period of ice effect, December 10,11, 1944, January 20-23, 28 to February 1, December 9-15, 1945, January 11 to February 3, 1946, which were computed on basis of weather records and comparison with stations at Portland and Avondale, and are fair.

Diversions for irrigation above station. The North Side water works diverts considerable water around station, wasting the major portion back to river. Records include diversions above station by North Side water works intake since October 1, 1934, but do not include this diversion from May, 1925 to September, 1934.

ARKANSAS RIVER NEAR AVONDALE, COLORADO

Location - Water stage recorder in Sec. 1, T. 21 S., R. 63 W., 800 feet downstream from Nyberg Bridge, ½ mile upstream from Sixmile Creek, and 2½ miles west of Avondale.

Drainage Area - 6,350 square miles. Zero of gage is 4,508.16 feet above mean sea level, datum of 1929.

Records Available - May 1, 1939 to September 30, 1946.

Maximum discharge during period 1939-1946 - 18,900 second feet (Revised), April 24, 1942, from rating curve extended above 7,000 second feet. Gage height 7.79 feet.

Maximum Discharge - Year 1945 - 8,050 second feet, August 15, from rating curve extended above 2,500 second feet. Gage height 6.47 feet.

Maximum Discharge - Year 1946 - 6,720 second feet, August 27. Gage height 6.17 feet.

Accuracy - Records considered fair. Those for period of no gage-height record, September 7-14, 1945, were computed on the basis of comparison with Pueblo station.

Diversions for irrigation and storage above station.

ARKANSAS RIVER NEAR NEPESTA, COLORADO

Location - Water stage recorder in Sec. 31, T. 21 S., R. 60 W., above diversion dam of Oxford Farmers Company canal, 1½ miles west of Nepesta. Records corrected for Oxford Farmers canal waste 1918 to 1926, not corrected from 1927 to June, 1936. Since June, 1936, records include all river flow above Oxford Farmers canal dam.

Drainage Area - 9,130 square miles. Zero of gage is 4,378.66 feet above mean sea level, datum of 1929.

Records Available - September 8, 1897 to October 31, 1903, July 14, 1909 to November 12, 1912, January 1, 1914 to September 30, 1946. During period 1918 to June 4, 1921, station maintained at Nepesta.

Maximum discharge during period 1897-1903, 1909-1912, 1914-1946 - 180,000 second feet, by slope area measurement at point nine miles upstream, June 4, 1921.

Maximum Discharge - Year 1945 - 16,100 second feet, August 8, from rating curve extended above 5,000 second feet. Gage height 6.20 feet.

Maximum Discharge - Year 1946 - 15,800 second feet, August 27, from rating curve extended above 6,500 second feet. Gage height 6.00 feet.

Accuracy - Records considered fair.

Diversions for irrigation and storage above station.

ARKANSAS RIVER AT LA JUNTA, COLORADO

Location - Water stage recorder in Sec. 2, T. 24 S., R. 55 W., at East Bridge in La Junta just upstream from King Arroyo. This station has been maintained at several different sites in La Junta during period of record, but all records are equivalent.

Drainage Area - 12,200 square miles. Zero of gage is 4,039.60 feet above mean sea level, datum of 1929.

Records Available - May to August, 1889, December, 1893 to December, 1895, January to December, 1901, April to October, 1903, August to November, 1908, April, 1912 to September 30, 1946.

Maximum discharge during period 1889, 1893-1895, 1901, 1903, 1908, 1912-1946 - 200,000 second feet, by slope area method, June 4, 1921. Gage height 18.4 feet.

Maximum Discharge - Year 1945 - 12,900 second feet, August 15, from rating curve extended above 6,700 second feet. Gage height 8.17 feet.

Maximum Discharge - Year 1946 - 6,520 second feet August 24. Gage height 4.79 feet.

Accuracy - Records considered good. Discharge computed during periods of ice effect, December 10-26, 1945, January 14, 15, 28, 1946, on basis of discharge measurement and weather records, and are fair.

Diversions for storage and irrigation above station.

ARKANSAS RIVER AT LAS ANIMAS, COLORADO

Location - Water stage recorder in NW¼ Sec. 2, T. 23 S., R. 52 W., 1/3 mile downstream from highway bridge, and one mile north of Las Animas.

Drainage Area - 14,500 square miles. Zero of gage is 3,874.97 feet above mean sea level, datum of 1929.

Records Available - May 23, 1939 to September 30, 1946.

Maximum discharge during period 1939-1946 - 23,600 second feet April 25, 1942. Gage height 12.58 feet.

Maximum Discharge - Year 1945 - 8,840 second feet, August 16. Gage height 9.87 feet.

Maximum Discharge - Year 1946 - 4,670 second feet, August 28. Gage height 6.72 feet.

Accuracy - Records considered good except during periods of ice effect, December 11-29, 1945, which were computed on basis of weather records and comparison with record at La Junta station.

Diversions for storage and irrigation above station.

ARKANSAS RIVER AT CADDOA, COLORADO

Location - Water stage recorder in northwest corner of Sec. 4, T. 23 S., R. 49 W., just upstream from Caddoa Creek and 2 miles east of Caddoa.

Drainage Area - 19,000 square miles. Zero of gage is 3,737.40 feet above mean sea level, datum of 1929.

Records Available - February 7, 1938 to September 30, 1946.

Maximum discharge during period 1938-1946 - 50,000 second feet April 24, 1942, by slope-area method. Gage height 10.46 feet, site and datum then in use.

Maximum Discharge - Year 1945 - 1,920 second feet, August 9. Gage height 3.70 feet.

Maximum Discharge - Year 1946 - 2,600 second feet, August 25. Gage height 4.08 feet.

Accuracy - Records considered good.

Diversions for irrigation and storage above station. Flow controlled by Caddoa Reservoir, capacity 296,500 acre feet, up to lip of overflow section; capacity when gates are installed, 655,000 acre feet.

ARKANSAS RIVER AT LAMAR, COLORADO

Location - Water stage recorder in Sec. 30, T. 22 S., R. 46 W., 800 feet downstream from highway bridge and 1 mile north of Lamar. Prior to June 4, 1941, at site 800 feet upstream, and at datum one foot higher. Lamar Canal diverts 1 mile upstream and at times wastes water to the river ½ mile downstream from station.

Drainage Area - 19,800 square miles. Zero of gage is 3,605.02 feet above mean sea level, datum of 1929.

Records Available - May 11, 1913 to September 30, 1946.

Maximum discharge during period 1913-1946 - 165,000 second feet (slope-area measurement) June 5, 1921.

Maximum Discharge - Year 1945 - 2,690 second feet, July 10. Gage height 3.85 feet.

Maximum Discharge - Year 1946 - 2,240 second feet, May 11. Gage height 2.82 feet.

Accuracy - Records considered good except those for period of no gage-height record, June 5, 25, July 13-17, October 14, 21, November 4, 27, 28, 30, December 9, 25, 1945, January 14, 15, 18-22, March 3, 9-11, 13-18, 22-24, 28, 30, 1946, which were computed on basis of discharge measurements and daily reports by observer.

Diversions for irrigation and storage above station.

ARKANSAS RIVER AT HOLLY, COLORADO

Location - Water stage recorder in Sec. 14, T. 23 S., R. 42 W., at highway bridge ½ mile south of Holly. Wild Horse Creek enters river just downstream from gage.

Drainage Area - 25,000 square miles. Zero of gage is 3,377.95 feet above mean sea level, datum of 1929.

Records Available - October 15, 1907 to September 30, 1946.

Maximum discharge during period 1907-1946 - 136,000 second feet (slope-area method) October 20, 1908. Gage height 11.0 feet, former datum.

Maximum Discharge - Year 1945 - 1,570 second feet, August 15. Gage height 4.46 feet.

Maximum Discharge - Year 1946 - 2,100 second feet, August 29. Gage height 4.66 feet.

Accuracy - Records considered good except those during period of ice effect, December 16-23, 1945, which are fair.

Diversions for irrigation and storage above station.

LAKE FORK CREEK ABOVE SUGAR LOAF RESERVOIR, COLORADO

Location - Water stage recorder in SE¼ Sec. 13, T. 9 S., R. 81 W., 1,000 feet upstream from high water line of Sugar Loaf (Turquoise Lake) Reservoir.

Drainage Area - 22.4 square miles.

Records Available - August 28, 1945 to September 30, 1946.

Maximum discharge observed during period 1945-1946 - 402 second feet, June 7, 1946. Gage height 4.15 feet.

Accuracy - Records considered good except those for period of no gage-height record, May 16-20, which are fair.

Transmountain diversion from Fryingpan River through Busk-Ivanhoe Tunnel enters stream above station.

LAKE FORK CREEK AT OUTLET OF SUGAR LOAF RESERVOIR, COLORADO

Location - Water stage recorder in NE¼ Sec. 19, T. 9 S., R. 80 W., at 25 ft. sharp crested weir, 600 feet downstream from Sugar Loaf Reservoir.

Drainage Area - 25.3 square miles.

Records Available - May 1, 1946 to September 30, 1946.

Maximum discharge observed during period - 240 second feet, June 19, 1946. Gage height 2.05 feet.

Accuracy - Records considered excellent except those for periods of no gage-height record, May 29-31, June 6, 17, July 7, 13, 21-24, September 9-13, 18-28, 29, which were computed on basis of reports of releases of water from reservoir.

Flow controlled by Sugar Loaf Reservoir, capacity 17,400 acre feet. Busk-Ivanhoe Tunnel diverts water from Fryingpan Creek, which is stored in reservoir.

HALFMOON CREEK NEAR MALTA, COLORADO

Location - Water stage recorder in NW¼ Sec. 18, T. 10 S., R. 80 W., at first bridge 2 miles above mouth and 3.5 miles southwest of Malta.

Drainage Area - 25 square miles.

Records Available - July 15 to September 30, 1946.

Maximum discharge during period - 85 second feet, July 16, 1946. Gage height 2.94 feet.

Accuracy - Records considered good.

No diversions above station.

LAKE CREEK ABOVE TWIN LAKES RESERVOIR NEAR TWIN LAKES, COLORADO

Location - Water stage recorder in Sec. 26, T. 11 S., R. 81 W., at old highway bridge at mouth of canyon, 1.5 miles above high water line of Twin Lakes Reservoir.
Drainage Area - 74.1 square miles
Records Available - April 1 to September 30, 1946.

Maximum discharge observed during period - 2,490 second feet, June 10, 1946. Gage height 5.40 feet.

Accuracy - Records considered excellent except those for period of no gage-height April 1-5 and June 23-26, which are fair.

Transmountain diversion through Twin Lakes Tunnel from Roaring Fork enters above station.

LAKE CREEK BELOW TWIN LAKES RESERVOIR, COLORADO

Location - Water stage recorder in NE¼ Sec. 22, T. 11 S., R. 80 W., 100 feet downstream from Twin Lakes Reservoir dam at 25-foot Parshall flume.

Drainage Area - 105 square miles.

Records Available - April 30 to September 30, 1946.

Maximum discharge observed during period, 1,340 second feet, June 18, 1946. Gage height 5.26 feet.

Accuracy - Records considered excellent.

Flow entirely controlled by Twin Lakes Reservoir, capacity 53,260 acre feet. Transmountain diversion from Roaring Fork through Twin Lakes Tunnel enters above and is stored in reservoir.

CLEAR CREEK ABOVE CLEAR CREEK RESERVOIR, COLORADO

Location - Water stage recorder in S ½ Sec. 12, T. 12 S., R. ~~79~~ 80 W., 0.5 mile upstream from high water line of Clear Creek Reservoir.

Drainage Area - 63.0 square miles.

Records Available - May 7, to September 30, 1946.

Maximum discharge observed during period - 686 second feet, June 17, 1946. Gage height 3.61 feet.

Accuracy - Records considered good.

Two small diversions above station.

CLEAR CREEK BELOW CLEAR CREEK RESERVOIR, COLORADO

Location - Water stage recorder in SE¼ Sec. 8, T. 12 S., R. 79 W., at rating flume 1,000 feet downstream from Clear Creek Reservoir Dam.

Drainage Area - 65.4 square miles.

Records Available - May 1 to September 30, 1946.

Maximum discharge observed during period - 394 second feet, June 18, 1946. Gage height 3.70 feet.

Accuracy - Records considered excellent.

Flow entirely controlled by Clear Creek Reservoir. Capacity 9,280 acre feet.

GRAPE CREEK NEAR WESTCLIFFE, COLORADO

Location - Water stage recorder in Sec. 36, T. 21 S., R. 73 W., at concrete control 1 mile above DeWeese-Dye Reservoir and 3 miles northwest of Westcliffe.

Drainage Area - 346 square miles. Altitude 7,800 feet above mean sea level.

Records Available - December 1, 1924 to January 30, 1928, March 25, 1930 to September 30, 1946.

Maximum discharge during period 1924-1928, 1930-1946 - 1,960 second feet, April 23, 1942, computed by weir formula with overflow estimated. Gage height 5.26 feet.

Maximum Discharge - Year 1945 - 1,250 second feet, August 7, from rating curve extended above 300 second feet. Gage height 3.95 feet.

Maximum Discharge - Year 1946 - 142 second feet April 15. Gage height 1.33 feet.

Accuracy - Records considered good except those for period of ice effect or no gage-height record, November 9, 1944 to March 7, 1945, April 3, 4, October 11-17, November 21, 22, November 30, 1945 to February 28, 1946, which were computed on basis of discharge measurements and weather records, and are fair.

Diversions for irrigation above station.

FOUNTAIN CREEK NEAR FOUNTAIN, COLORADO

Location - Water stage recorder in Sec. 4, T. 17 S., R. 65 W., 1 mile downstream from Little Fountain Creek, and 6 miles south of Fountain, just upstream from railroad bridge.

Drainage Area - 676 square miles. Zero of gage is 5,341.74 feet above mean sea level, adjustment of 1929.

Records Available - October 1, 1938 to September 30, 1946.

Maximum discharge during period 1938-1946 - 22,100 second feet, by slope-area method, May 28, 1940. Gage height 9.19 feet.

Maximum Discharge - Year 1945 - 13,900 second feet, August 5 from rating curve extended above 900 second feet. Gage height 7.38 feet.

Maximum Discharge - Year 1946 - 9,550 second feet, August 26, from rating curve extended above 900 second feet. Gage height 6.65 feet.

Accuracy - Records considered fair.

Diversions for irrigation above station.

FOUNTAIN CREEK AT PUEBLO, COLORADO

Location - Water stage recorder in SW¼ Sec. 30, T. 20 S., R. 64 W., at 8th Street bridge in Pueblo, 2 miles upstream from mouth.

Drainage Area - 932 square miles. Zero of gage is 4,663.45 feet above mean sea level, datum of 1929.

Records Available - 1922-1925, October 1, 1941 to September 30, 1946.

Maximum discharge recorded, 35,000 second feet May 30, 1935, by slope-area method.

Maximum Discharge - Year 1945 - 17,800 second feet, July 10, from rating curve extended above 1,400 second feet. Gage height 9.50 feet.

Maximum Discharge - Year 1946 - 16,500 second feet, August 26, estimated by float method. Gage height 9.00 feet.

Accuracy - Records considered fair. During periods of ice effect, January 20-22, January 29 to February 2, December 11-26, 1945, January 12-24, January 28-30, February 2, 3, 1946, discharges were computed on basis of discharge measurement and weather records.

Diversions for irrigation above station.

MONUMENT CREEK AT PIKEVIEW, COLORADO

Location - Wire-weight gage in Sec. 18, T. 13 S., R. 66 W., at Pikeview, 1 mile downstream from Cottonwood Creek.

Drainage Area - 204 square miles. Zero of gage is 6,203.31 feet above mean sea level, adjustment of 1912.

Records Available - October 1, 1938 to September 30, 1946.

Maximum discharge observed during period 1938-1946 - 734 second feet April 23, 1942, from rating curve extended above 360 second feet. Gage height 3.86 feet.

Maximum Discharge Observed - Year 1945 - 560 second feet, August 5, from rating curve extended above 300 second feet. Gage height 3.49 feet.

Maximum Discharge Observed - Year 1946 - 319 second feet, August 27. Gage height 2.50 feet.

Accuracy - Records considered poor. Gage read twice daily.

Diversions above station for irrigation and storage.

ST. CHARLES RIVER NEAR PUEBLO, COLORADO

Location - Water stage recorder in Sec. 23, T. 21 S., R. 64 W., at highway bridge 500 feet downstream from Bessemer Ditch syphon, 7 miles southeast of Pueblo and 8 miles upstream from mouth.

Drainage Area - 464 square miles.

Records Available - April 1, 1942 to September 30, 1946.

Maximum discharge known - 56,000 second feet, June 3, 1921.

Maximum Discharge - Year 1945 - 7,720 second feet, August 5, from rating curve extended above 1,500 second feet, on basis of slope area determination. Gage height 6.84 feet.

Maximum Discharge - Year 1946 - 4,610 second feet, August 26, from rating curve extended above 1,500 second feet. Gage height 4.78 feet.

Accuracy - Records considered fair.

Diversions for irrigation and storage above station.

SIX MILE CREEK NEAR AVONDALE, COLORADO

Location - Water stage recorder in SE¼ Sec. 1, T. 21 S., R. 63 W., 1,000 feet upstream from mouth and 2½ miles west of Avondale.

Drainage Area - 50 square miles.

Records Available - August, 1941 to September 30, 1946 (Discontinued).

Maximum discharge observed during period 1941-1946 - That of June 25, 1945.

Maximum Discharge - Year 1945 - 1,180 second feet, June 25, from rating curve extended above 50 second feet, on basis of slope area determination. Gage height 5.10 feet.

Maximum Discharge - Year 1946 - 528 second feet, August 23. Gage height 3.90 feet.

Accuracy - Records considered fair.

No diversions above station. Flow is mostly return water from irrigated lands.

CHICO CREEK NEAR NORTH AVONDALE, COLORADO

Location - Water stage recorder in SE¼ Sec. 31, T. 20 S., R. 62 W., on state highway No. 96, 1 mile upstream from mouth and 1-1/2 miles west of North Avondale.

Drainage Area - 815 square miles.

Records Available - April 14, 1942 to September 30, 1946 (Discontinued).

Maximum discharge during period 1942-1946 - That of August 14, 1946.

Maximum discharge known - 28,600 second feet, June 3, 1921, by slope-area method.

Maximum Discharge - Year 1945 - 3,700 second feet, August 6, from rating curve extended above 2,000 second feet. Gage height 5.35 feet.

Maximum Discharge - Year 1946 - 6,820 second feet, August 24, from rating curve extended above 2,000 second feet. Gage height 5.77 feet.

Accuracy - Records considered fair.

No diversions above station.

HUERFANO RIVER AT MANZANARES CROSSING, NEAR REDWING, COLORADO

Location - Water stage recorder in Sec. 5, T. 27 S., R. 71 W., at Manzanares Crossing, 3½ miles southwest of Redwing.

Drainage Area - 76 square miles.

Records Available - July 14, 1923 to September 30, 1946. No winter records prior to 1936.

Maximum discharge during period 1923-1946 - maximum gage height 4.80 feet, July 27, 1934, discharge not determined.

Maximum Discharge - Year 1945 - 681 second feet, July 18, from rating curve extended above 200 second feet. Gage height 2.03 feet.

Maximum Discharge - Year 1946 - 1,260 second feet, July 19, from rating curve extended above 200 second feet. Gage height 3.00 feet.

Accuracy - Records considered good except those during period of no gage-height record, November 19-23, November 26, 1944 to March 31, 1945, August 22-October 19, October 30 - November 4, November 9, 10, 14, 1945, November 17, 1945 to March 18, 1946, April 15-20, 1946, which were computed on basis of discharge measurements, weather records and comparison with station at Badito, and are fair.

Diversions for irrigation above station.

HUERFANO RIVER NEAR BADITO, COLORADO

Location - Water stage recorder in Sec. 5, T. 27 S., R. 68 W., 250 feet upstream from South Oak Creek and 0.4 mile west of Badito, until September 10, 1946; Records then moved to highway bridge in Sec. 4, at Badito and ½ mile downstream from South Oak Creek.

Drainage Area - 513 square miles.(547 square miles at new site)

Records Available - August 28 to November 30, 1912, April 1, 1923 to September 30, 1925, March 6, 1938 to September 30, 1946.

Maximum discharge during period 1912, 1923-1925, 1938-1946 - 8,480 second feet, August 14, 1945, at gage he ght of 9.89 feet, from rating curve extended above slope-area determination at gage height 9.35 feet.

Maximum Discharge - Year 1945 - 8,480 second feet, August 14. Gage height 9.89 feet.

Maximum Discharge - Year 1946 - 4,080 second feet, from slope area determination, August 28. Gage height 7.60 feet.

Accuracy - Records considered poor.

Diversions for irrigation above station.

HUERFANO RIVER NEAR MUSTANG, COLORADO

Location - Water stage recorder in SW¼ Sec. 20, T. 25 S., R. 65 W., 2¼ miles downstream from Apache Creek, and 2½ miles south of Mustang.

Drainage Area - 800 square miles.

Records Available - February 4, 1942 to September 30, 1946 (Discontinued).

Maximum discharge during period 1942-1946 - 26,000 second feet, August 14, 1942, slope-area measurement. Gage height 9.60 feet.

Maximum Discharge - Year 1945 - 19,400 second feet, August 14, from rating curve extended above 800 second feet, on basis of slope-area determination. Gage height 7.85 feet.

Maximum Discharge - Year 1946 - 15,000 second feet, August 28, gage height 6.61 feet.

Accuracy - Records considered poor.

Diversions for irrigation and storage above station.

HUERFANO RIVER BELOW HUERFANO VALLEY DAM
NEAR UNDERCLIFFE, COLORADO

Location - Water stage recorder in NE¼ Sec. 32, T. 23 S., R. 63 W., at mouth of Canyon, ½ mile below diversion dam fof Huerfano Valley Ditch, 5 miles southwest of Undercliffe.

Drainage Area - 1,710 square miles. Zero of gage is 4,872.02 feet above mean sea level, datum of 1929.

Records Available - May 16, 1938 to September 30, 1939, at site 600 feet above diversion dam, one-half mile upstream; August to December, 1908, at site one and one-half miles downstream; October, 1939 to September 30, 1946, at present site. Records equivalent for high flows only.

Maximum discharge during period 1938-1946 - 15,000 second feet, August 14, 1942, by slope-area and weir methods. Gage height 7.00 feet. Flood of July 27-28, 1936, reached stage of 11.4 feet, gage datum of 1938. Discharge 26,600 second feet, by computation of flow over dam.

Maximum Discharge - Year 1945 - 3,700 second feet, August 14, discharge and gage height not determined.

Maximum Discharge - Year 1946 - 9,240 second feet, August 13. Gage height 4.38 feet.

Accuracy - Records considered poor.

Diversions for irrigation above station.

CUCHARAS RIVER AT BOYD RANCH NEAR LA VETA, COLORADO

Location - Water stage recorder in Sec. 24, T. 30 S., R. 69 W., at Boyd Ranch, 6 miles south of La Veta.

Drainage Area - 56 square miles.

Records Available - January 1, 1923 to September 30, 1946. Prior to October, 1934, station located two miles downstream. Records not comparable.

Maximum discharge during period 1935-1946 - 405 second feet, September 5, 1944, from rating curve extended above 70 second feet, on basis of parallel curve defined to 180 second feet. Gage height 3.77 feet.

Maximum Discharge - Year 1945 - 131 second feet, May 7. Gage height 2.01 feet.

Maximum Discharge - Year 1946 - 47 second feet, April 29. Gage height 1.25 feet.

Accuracy - Records considered good above 35 second feet and fair below. Ice effect periods, November 21, 22, 26 to December 1, December 4-15, December 26, 1944 to January 4, 1945, January 13, 15, 18-24, February 4-7, 10-13, 16-18, 22, 24, March 3-10, 17, 20, 21, 23, 25, 28, 29, April 4-6, November 20-22, December 8-21, 1945, January 26-29, 31, February 1, 11-15, 1946, were computed on basis of discharge measurements and weather records, and are fair.

Diversions for irrigation above station.

APISHAPA RIVER NEAR AGUILAR, COLORADO

Location - Water stage recorder in Sec. 4, T. 31 S., R. 65 W., 2 miles downstream from Mavricio Canyon Creek and 1.5 miles southwest of Aguilar.

Drainage Area - 126 square miles. Zero of gage is 6,408.11 feet above mean sea level, adjustment of 1929.

Records Available - April 1, 1938 to September 30, 1939, October 1, 1939 to September 30, 1946. Station at site at southwest edge of Aguilar March 3, 1938 to September 30, 1939. Moved to site 2 miles upstream October 1, 1939. Moved to site 0.2 miles farther upstream September 4, 1943. Station moved 0.6 miles downstream July 7, 1944. Records since October 1, 1939 are equivalent.

Maximum discharge during period 1939-1946 - 3,870 second feet, June 17, 1941, by slope-area method. Gage height 7.50 feet.

Maximum Discharge - Year 1945 - 3,120 second feet, August 15, from rating curve extended above 450 second feet. Gage height 6.20 feet.

Maximum Discharge - Year 1946 - 1,480 second feet, September 15, from extension of rating curve. Gage height 4.05 feet.

Accuracy - Records considered fair.

Diversions for irrigation above station.

APISHAPA RIVER NEAR WHITE ROCK, COLORADO

Location - Water stage recorder in SE¼ Sec. 20, T. 26 S., R. 60 W., 3 miles upstream from Buffalo Arroyo, and 6 miles south of White Rock.

Drainage Area - 792 square miles.

Records Available - May 6, 1942 to September 30, 1946 (~~discontinued~~).

Maximum discharge during period 1942-1946 - That of July 25, 1945.

Maximum Discharge - Year 1945 - 8,280 second feet, July 25, from rating curve extended above slope-area determinations at gage-heights of 3.46 and 3.90 feet. Gage he ght 3.42 feet.

Maximum Discharge - Year 1946 - 4,870 second feet, September 12. Gage height 3.62 feet.

Accuracy - Records considered poor.

Diversions for irrigation above station.

APISHAPA RIVER NEAR FOWLER, COLORADO

Location - Water stage recorder in Sec. 35, T. 22 S., R. 59 W., at concrete highway bridge 4 miles upstream from mouth and 4 miles southeast of Fowler.

Drainage Area - 1,130 square miles. Zero of gage is 4,317.05 feet above mean sea level, datum of 1929.

Records Available - April 1, 1922 to September 30, 1925, May, 1939 to September 30, 1946.

Maximum discharge during period 1922-1925, 1939-1946 - 50,000 second feet August 22, 1923, based on slope-area measurement. Gage height 24.70 feet, datum then in use.

Maximum Discharge - Year 1945 - 12,000 second feet, August 15, from rating curve extended above 5,000 second feet. Gage height 13.95 feet.

Maximum Discharge - Year 1946 - 6,910 second feet, August 29. Gage height 10.51 feet.

Accuracy - Records considered good.

Diversions for irrigation above station. Oxford Farmers and Rocky Ford Highline Canals waste water into stream above station.

TIMPAS CREEK NEAR ROCKY FORD, COLORADO

Location - Water stage recorder in NW¼ Sec. 19, T. 24 S., R. 56 W., at Catlin Ditch syphon, 8 miles south of Rocky Ford and 9 miles upstream from mouth.

Drainage Area - 465 square miles.

Records Available - October, 1924 to September, 1927, October, 1941 to September 30, 1946.

Maximum discharge during period 1923-1927, 1941-1946 - 14,000 second feet, June 8, 1923 (slope-area determination). Gage height 16.0 feet, datum then in use.

Maximum Discharge - Year 1945 - 4,580 second feet, August 15, from rating curve extended above 1,100 second feet. Gage height 8.80 feet.

Maximum Discharge - Year 1946 - 1,510 second feet, September 13. Gage height 4.34 feet.

Accuracy - Records considered fair. During period of no gage-height record, November 26-28, December 22-25, 1944, January 3-8, 19, January 24 to February 3, February 24 to March 8, August 10, 20-26, September 3-26, December 1, 9-31, 1945, January 1-2, 11-29, February 8-11, 13-17, 26-27, March 4-7, April 21, 22, August 36, 1946, records were computed on basis of discharge measurements and weather records, and are poor.

Diversions for irrigation above station.

HORSE CREEK NEAR SUGAR CITY, COLORADO

Location - Water stage recorder in NW¼ Sec. 12, T. 21 S., R. 56 W., at highway bridge 1½ mile east of Sugar City.

Drainage Area - About 1,000 square miles.

Records Available - April 13, 1940 to September 30, 1946 (Discontinued).

Maximum discharge during period 1940-1946 - 5,400 second feet October 23, 1941. Gage height 6.20 feet.

Maximum Discharge - Year 1945 - 2,500 second feet, August 8. Gage height 4.92 feet.

Maximum Discharge - Year 1946 - 2,960 second feet, August 28. Gage height 5.37 feet.

Accuracy - Records considered fair. Those during period of ice effect, January 21-30, 1945, December 10-20, 1945, were estimated.

Diversions for irrigation above station.

PURGATOIRE RIVER AT TRINIDAD, COLORADO

Location - Water stage recorder in Sec. 13, T. 33 S., R. 64 W., at foot of State Street in Trinidad. Station maintained at various sites but records are comparable.

Drainage Area - 742 square miles. Zero of gage is 5,987.17 feet above mean sea level.

Records Available - May, 1896 to July, 1899, August to December, 1905, November, 1906 to March, 1907, October, 1907 to November, 1912, April, 1916 to September 30, 1946.

Maximum discharge during period 1896-1899, 1905, 1906-1912, 1916-1946 - 45,400 second feet, September 30, 1904, by slope-area method. Gage height 16.6 feet, from gage at Commercial Street.

Maximum Discharge - Year 1945 - 7,100 second feet, July 13. Gage height 6.30 feet.

Maximum Discharge - Year 1946 - 2,740 second feet, August 28. Gage height 3.54 feet.

Accuracy - Records considered good except those during no gage-height record and ice effect, October 16-23, December 10-13, 28, 29, 1944, January 22-24, 28-31, February 17, 21-23, 25, August 18-22, September 16-19, 28, October 26, November 16, 22, December 10, 14-31, 1945, January 10-18, February 13-15, 1946, which were computed on basis of discharge measurements and weather records, and are fair.

Diversions for irrigation above station.

PURGATOIRE RIVER AT NINE MILE DAM NEAR HIGBEE, COLORADO

Location - Water stage recorder in NW¼ Sec. 7, T. 27 S., R. 54 W., 700 feet upstream from Nine Mile Diversion dam, 4 miles southwest of Higbee, 5½ miles upstream from Smith Canyon and 15 miles south of La Junta.

Drainage Area - 2,900 square miles. Zero of gage is 4,240.59 feet above mean sea level, datum of 1929.

Records Available - October, 1924 to September 30, 1946.

Maximum discharge during period 1924-1946 - 64,500 second feet September 15, 1934, by slope-area method. Gage height 12.60 feet.

Maximum Discharge - Year 1945 - 5,090 second feet, August 21. Gage height 5.28 feet.

Maximum Discharge - Year 1946 - 1,970 second feet, June 19. Gage height 4.59 feet.

Accuracy - Records considered good above 50 second feet and fair below. Discharges during periods October 16-18, November 3, 1944, February 10, 11, 23, 28, July 11, 12, 16-20, 27, August 1-11, 15-17, 25-31, 1945, were computed from twice daily gage readings. During period of ice effect, November 26, December 4-7, 10, 11, 16, 17, 28, 1944, January 7, 20-22, 28-31, February 22, 26, March 6, November 21-25, December 4, 9-10, December 14, 1945 to January 8, 1946, February 6-7, 1946, discharges computed on basis of weather records and comparison with Purgatoire River at Highland Dam.

Diversions for irrigation above station.

PURGATOIRE RIVER AT HIGHLAND (CARMEN) DAM, NEAR LAS ANIMAS, COLORADO

Location - Water stage recorder above diversion dam of Highland Ditch in Sec. 1, T. 25 S., R. 53 W., 11 miles southwest of Las Animas. Tarbox Arroya enters ¼ mile downstream.

Drainage Area - 3,320 square miles.

Records Available - October 1, 1931 to September 30, 1946.

Maximum discharge during period 1931-1946 - 60,500 second feet, April 24, 1942, by slope-area method. Gage height 13.29 feet.

Maximum Discharge - Year 1945 - 5,850 second feet, August 21. Gage height 5.78 feet.

Maximum Discharge - Year 1946 - 4,600 second feet, June 19. Gage height 5.50 feet.

Accuracy - Records considered fair. During period of ice effect, December 10-14, 1944, January 29-31, 1945, December 10, 1945 to January 7, 1946, discharges computed on basis of discharge measurements, weather records, and related stations.

Diversions for irrigation above station.

RULE CREEK NEAR CADDOA, COLORADO

Location - Water stage recorder on south line of SE¼ Sec. 36, T. 23 S., R. 51 W., at County highway bridge 9 miles southwest of (new) Caddoa and 5 miles upstream from mouth.

Drainage Area - 542 square miles.

Records Available - October 1, 1941 to September 30, 1946 (Discontinued).

Maximum discharge during period 1941-1946 - 1,720 second feet, June 28, 1943. Gage height 11.30 feet.

Maximum Discharge - Year 1945 - 1,110 second feet, August 15. Gage height 9.05 feet.

Maximum Discharge - Year 1946 - 1,220 second feet, August 28. Gage height 9.24 feet.

Accuracy - Records considered fair.

One small diversion above station.

BIG SANDY CREEK ABOVE AMITY CANAL DIVERSION NEAR KORNMAN, COLORADO

Location - Water stage recorder in NW¼ Sec. 21, T. 21 S., R. 45 W., just upstream from Amity Canal diversion from Big Sandy Creek, 7 miles upstream from mouth and 9 miles northeast of Kornman.

Drainage Area - 3,410 square miles.

Records Available - October 1, 1941 to September 30, 1946 (Discontinued).

Maximum discharge during period 1941-1946 - 2,900 second feet, September 3, 1942. Gage height 5.63 feet.

Maximum Discharge - Year 1945 - Discharge not determined, August 22.

Maximum Discharge - Year 1946 - 308 second feet, July 22. Gage height 2.97 feet.

Accuracy - Records considered poor.

TWO BUTTES CREEK NEAR HOLLY, COLORADO

Location - Water stage recorder in SE¼ on south line of Sec. 21, T. 23 S., R. 42 W., 1½ miles above mouth and 2½ miles south of Holly.

Drainage Area - 910 square miles.

Records Available - August 1, 1942 to September 30, 1946 (Discontinued).

Maximum discharge during period 1942-1946 - 1,800 second feet, May 2, 1944. Gage height 4.77 feet. Maximum discharge recorded was 35,000 second feet on October 20, 1908.

Maximum Discharge - Year 1945 - 470 second feet, August 16. Gage height 1.80 feet.

Maximum Discharge - Year 1946 - 1,520 second feet, August 27. Gage height 4.23 feet.

Accuracy - Records considered fair.

Diversions for storage by Two Buttes Reservoir about 40 miles above station.

WILD HORSE CREEK AT HOLLY, COLORADO

Location - Water stage recorder in Sec. 15, T. 23 S., R. 42 W., just upstream from mouth and ½ mile southeast of Holly.

Drainage Area - 212 square miles, of which 39 square miles is dead area. Zero of gage is 3,380.36 feet above mean sea level, datum of 1929.

Records Available - October 1, 1922 to August 28, 1935, November 17, 1938 to September 30, 1946.

Maximum discharge during period 1922-1935, 1938-1946 - 22,000 second feet August 28, 1935, by slope-area measurement at point 11 miles above station.

Maximum Discharge - Year 1945 - 360 second feet, June 26, from rating curve extended above 140 second feet. Gage height 5.01 feet.

Maximum Discharge - Year 1946 - 251 second feet, August 27. Gage height 4.80 feet.

Accuracy - Records considered fair. Flow is mostly waste water from Amity Canal.

Diversions for irrigation above station.

HOLLY DRAIN NEAR HOLLY, COLORADO

Location - Water stage recorder in Sec. 16, T. 23 S., R. 41 W., just downstream from Cheyenne Creek, 100 yards west of Colorado-Kansas state line, at Santa Fe railroad bridge, and 3½ miles east of Holly.

Zero of gage is 3,351.97 feet above mean sea level, datum of 1929.

Records Available - January 1, 1924 to September 30, 1946. Records from August 28, 1935 to November 10, 1938, include the flow of Wild Horse Creek. During same period flow of Holly Drain above crossing of Wild Horse Creek enters Arkansas River above station at Holly.

Maximum discharge during period 1924-1946 - 1,470 second feet, September 3, 1938, from rating curve extended above 900 second feet, on basis of slope-area determination. Gage height 10.29 feet.

Maximum Discharge - Year 1945 - 363 second feet, June 25. Gage height 10.68 feet.

Maximum Discharge - Year 1946 - Discharge not determined.

Accuracy - Records considered fair.

RIO GRANDE RIVER BASIN

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RIO GRANDE RIVER AT THIRTY MILE BRIDGE, NEAR CREEDE, COLORADO

Location - Water stage recorder in Sec. 13, T. 40 N., R. 4 W., 500 feet upstream from Squaw Creek, 3/4 mile downstream from Rio Grande Reservoir, and 20 miles southwest of Creede.

Drainage Area - 163 square miles. Altitude 9,380 feet above mean sea level.

Records Available - June 18, 1909 to September 30, 1923; May 16, 1925 to September 30, 1946.

Maximum discharge during period 1909-1923; 1925-1946 - 7,500 second feet June 28, 1927. Gage height 7.03 feet.

Maximum Discharge - Year 1945 - 1,500 second feet June 14. Gage height 4.07 feet.

Maximum Discharge - Year 1946 - 1,510 second feet June 12. Gage height 4.08 feet.

Accuracy - Records considered excellent except those for periods of no gage height record, November 3, 1944 to April 19, 1945 and from November 4, 1945 to April 1, 1946, which were computed on basis of 1 discharge measurement and reservoir gate openings, and are fair.

Diversions for storage above station. Flow regulated by Rio Grande Reservoir, capacity 51,110 acre feet, just above station.

RIO GRANDE RIVER AT WASON, BELOW CREEDE, COLORADO

Location - Water stage recorder in NE¼ Sec. 8, T. 41 N., R. 1 E., at Wason, 1½ miles downstream from Willow Creek, and 3 miles southeast of Creede.

Drainage Area - 705 square miles. Altitude 8,591 feet above mean sea level.

Records Available - April 24, 1907 to September 30, 1946. Maximum discharge during period 1907-1946 - 9,750 second feet June 28, 1927. Gage height 7.65 feet.

Maximum Discharge - Year 1945 - 2,770 second feet June 15. Gage height 3.63 feet.

Maximum Discharge - Year 1946 - 2,960 second feet June 7. Gage height 3.75 feet.

Accuracy - Records considered excellent except those for periods of ice effect, November 26, 1944 to December 15, 1944, February 17-19, 1945, November 20, 1945 to February 21, 1946, which were computed on basis of discharge measurements, weather reports, and comparison with record at Del Norte, and are fair.

Diversions for irrigation above station. Flow regulated by three reservoirs, total capacity 122,900 acre feet.

RIO GRANDE RIVER NEAR DEL NORTE, COLORADO

Location - Water stage recorder in NW¼ Sec. 29, T. 40 N., R. 5 E., 5 miles upstream from Pinos Creek, and 6 miles west of Del Norte, at State Bridge. From 1889 to September, 1907, station maintained at site four miles downstream, records are comparable.

Drainage Area - 1,320 square miles. Zero of gage is 7,982.21 feet above mean sea level, datum of 1929.

Records Available - October 11, 1889 to September 30, 1946.

Maximum discharge during period 1889-1946 - 18,000 second feet October 5, 1911, from rating curve extended above 6,000 second feet. Gage height 6.80 feet.

Maximum Discharge - year 1945 - 4,030 second feet June 15. Gage height 3.90 feet.

Maximum Discharge - Year 1946 - 3,860 second feet, June 7. Gage height 3.82 feet.

Accuracy - Records considered excellent except those for periods of ice effect, November 29, 1944 to March 14, 1945 and November 16, 1945 to March 31, 1946, which were computed on basis of seven and nine discharge measurements, weather records, and are fair.

Diversions for irrigation above station. Flow regulated by three reservoirs above station, total capacity 122,900 acre feet, and by several smaller ones.

RIO GRANDE RIVER NEAR MONTE VISTA, COLORADO

Location - Water stage recorder at west line of Sec. 19, T. 39 N., R. 8 E., where Gunbarrel Highway crosses river 2 miles north of Monte Vista.

Drainage Area - 1,590 square miles. Zero of gage is 7,654.54 feet above mean sea level, datum of 1929.

Records Available - May 1, 1926 to September 30, 1946.

Maximum discharge during period 1926-1946 - 18,500 second feet, June 30, 1927. Gage height 7.85 feet.

Maximum Discharge - Year 1945 - 1,600 second feet, June 14. Gage height 3.70 feet.

Maximum Discharge - Year 1946 - 1,420 second feet, June 6. Gage height 3.61 feet.

Accuracy - Records considered excellent except those for periods of ice effect and missing gage heights, March 18-20, 1944, December 10, 1944 to February 15, 1945, March 17-19 and November 4, 5, 14-19, 21, December 11, 1945 to January 2, 1946, which were computed on basis of discharge measurements, weather records, and are fair.

Diversions for irrigation above station. Flow regulated by three main reservoirs, total capacity 122,900 acre feet, and by several small reservoirs.

RIO GRANDE RIVER AT ALAMOSA, COLORADO

Location - Water stage recorder in SE¼ Sec. 4, T. 37 N., R. 10 E., ½ mile northwest of Alamosa, and 7 miles upstream from Alamosa Creek. Prior to November 6, 1935, at site at highway bridge in Alamosa.

Drainage Area - 1,710 square miles. Zero of gage is 7,532.66 feet above mean sea level, datum of 1929.

Records Available - May 15, 1912 to September 30, 1946.

Maximum discharge furing period 1912-1946 - 14,000 second feet July 1, 1927. Gage height 9.37 feet.

Maximum Discharge - Year 1945 - 341 second feet, June 15. Gage height 2.45 feet.

Maximum Discharge - Year 1946 - During ice effect period - not determined.

Accuracy - Records considered good except those for periods of ice effect, November 30, 1944 to March 13, 1945, November 21, 1945 to March 4, 1946, and during periods of missing gage heights, November 3-13, 1944, May 13, 27, 1945, June 10, July 22, 29, August 5, 12, 19, 26, September 2, 9, 16, 23, 30, 1945, October 7, 10, 12, 14-19, 21-25, November 12, 18, 19, 1945, which were computed on basis of discharge measurements, weather records, and are fair.

Diversions for irrigation above station.

RIO GRANDE RIVER ABOVE MOUTH OF TRINCHERA CREEK NEAR LA SAUSES, COLORADO

Location - Water stage recorder in Sec. 35, T. 36 N., R. 11 E., ½ mile upstream from Trinchera Creek and 5 miles north of La Sauses.

Drainage Area - 5,740 square miles (includes 2,940 square miles in closed basin).

Records Available - May, 1936 to September 30, 1946.

Maximum discharge during period 1936-1946 - 4,740 second feet, June 28, 1941, from rating table extended above 4,000 second feet. Gage height 8.77 feet.

Maximum Discharge - Year 1945 - 538 second feet, May 10. Gage height 3.37 feet.

Maximum Discharge - Year 1946 - Occurred during ice period, not determined.

Accuracy - Records considered good except those for periods of ice effect, November 28, 1944 to March 2, 1945, April 4, 14, 15, 1945 and November 21, 1945 to March 10, 1946, which were computed on basis of three and four discharge measurements, weather records, and are fair.

Diversions for irrigation above station.

RIO GRANDE RIVER NEAR LOBATOS, COLORADO

Location - Water stage recorder in Sec. 22, T. 33 N., R. 11 E., 6 miles north of Colorado-New Mexico State line, 7 miles downstream from Culebra Creek, at highway bridge 10 miles east of Lobatos.

Drainage Area - 7,700 square miles (includes 2,940 square miles in closed basin). Zero of gage is 7,426.79 feet above mean sea level, datum of 1929.

Records Available - June 28, 1899 to September 30, 1946.

Maximum discharge during period 1899-1946 - 13,100 second feet June 8, 1905, from rating curve extended above 8,000 second feet.

Maximum Discharge - Year 1945 - 2,880 second feet May 12. Gage height 4.08 feet.

Maximum Discharge - Year 1946 - 822 second feet November 12, 1945. Gage height 2.27 feet.

Accuracy - Records considered good except those for periods of ice effect, December 25, 1944 to February 28, 1945 and December 5, 1945 to March 17, 1946, which were computed on basis of 12 discharge measurements, weather records, and are fair.

Diversions for irrigation above station. Flow regulated by many reservoirs on headwaters.

CLEAR CREEK BELOW CONTINENTAL RESERVOIR, COLORADO

Location - Water stage recorder and Parshall flume in Sec. 22, T. 42 N., R. 3 W., 1000 feet downstream from Continental Reservoir, and 15 miles west of Creede.

Drainage Area - 51.7 square miles.

Records Available - May 1, 1929 to September 30, 1946.

Maximum discharge during period 1929-1946 - 313 second feet May 4, 1937. Gage height 3.41 feet.

Maximum Discharge - Year 1945 - 200 second feet June 5. Gage height 2.67 feet.

Maximum Discharge - Year 1946 - 276 second feet April 27. Gage height 3.34 feet.

Accuracy - Records considered good except those during winter period and period of missing gage heights, October 25, 1944 to April 26, 1945 and October 21, 1945 to April 23, 1946, which were computed on basis of gate openings at Continental Reservoir above station, and are fair.

Flow regulated by Continental Reservoir above station, capacity 26,700 acre feet.

GOOSE CREEK NEAR WAGON WHEEL GAP, COLORADO

Location - Water stage recorder in NW¼ Sec. 26, T. 40 N., R. 1 E., 2 miles downstream from Humphrey Reservoir 1½ miles downstream from Roaring Fork, and 6 miles south of Wagon Wheel Gap.

Drainage Area - 53.6 square miles.

Records Available - October 1, 1939 to September 30, 1946.

Maximum discharge during period 1939-1946 - 780 second feet, June 23, 1941, from rating curve extended above 500 second feet. Gage height 2.99 feet.

Maximum Discharge - Year 1945 - 303 second feet June 13. Gage height 2.04 feet.

Maximum Discharge - year 1946 - 303 second feet June 6. Gage height 2.04 feet.

Accuracy - Records considered excellent except those for periods of no gage height records, October 6-18, 1944, April 1-4, 14, 23-27, 1945, December 21, 1945 to April 12, 1946, May 15-22, August 8-11, which were computed on basis of discharge measurements, weather records, and are fair.

No diversions for irrigation above station. Flow is not regulated as Humphreys Reservoir, capacity 842 acre feet, is used for fish pond and is not regulated.

SOUTH FORK RIO GRANDE RIVER AT SOUTH FORK, COLORADO

Location - Water stage recorder in Sec. 4, T. 39 N., R. 3 E., 1½ miles upstream from Mouth, and 1½ miles southwest of South Fork. From 1910 to 1922 station maintained at site 1 mile downstream, records are comparable.

Drainage Area - 216 square miles. Zero of gage is 8,221.79 feet above mean sea level, datum of 1929.

Records Available - August, 1910 to September 30, 1922; May 4, 1936 to September 30, 1946.

Maximum discharge during period 1910-1922, 1936-1946 - 8,000 second feet October 5, 1911, from rating curve extended above 1,500 second feet. Gage height 9.70 feet from flood marks, present site and datum.

Maximum Discharge - Year 1945 - 1,250 second feet May 29. Gage height 4.68 feet.

Maximum Discharge - Year 1946 - 883 second feet June 5. Gage height 3.96 feet.

Accuracy - Records considered excellent except those for periods of ice effect, November 14, 1944 to March 26, 1945 and November 10, 1945 to March 25, 1946, which were computed on basis of discharge measurements, weather records, and are fair.

PINOS CREEK NEAR DEL NORTE, COLORADO

Location - Water stage recorder and Parshall flume in Sec. 29, T. 39 N., R. 5 E., just downstream from Bennett Creek, and 8 miles southwest of Del Norte.

Drainage Area - 53 square miles.

Records Available - May, 1919 to September, 1924, May, 1936 to September 30, 1946.

Maximum daily discharge during period 1919-1924, 1936-1946 - 2,400 second feet, June 3, 1922.

Maximum Discharge - Year 1945 - 330 second feet August 1. Gage height 3.07 feet.

Maximum Discharge - Year 1946 - 138 second feet, July 30. Gage height 1.66 feet.

Accuracy - Records considered good except those for periods of no gage height record, November 1, 1944 to March 25, 1945, November 8, 1945 to March 29, 1946, which were computed on basis of weath records, and are fair.

One small diversion for irrigation above station.

ROCK CREEK NEAR MONTE VISTA, COLORADO

Location - Water stage recorder and 8 foot Parshall flume in SE¼ Sec. 36, T. 38 N., R. 6 E., 3 miles downstream from North Fork and 9 miles southwest of Monte Vista. During period April, 1919 to September, 1924, water stage recorder at site 1½ miles downstream.

Drainage Area - 33.6 square miles.

Records Available - April, 1919 to September, 1924; May, 1935 to September 30, 1944.

Maximum discharge during period 1935-1944 - 178 second feet May 15, 1944. Gage height 2.88 feet.

Maximum Discharge - Year 1945 - 64 second feet May 13. Gage height 1.42 feet.

Maximum Discharge - Year 1946 - 81 second feet September 1. Gage height 1.64 feet.

Accuracy - Records considered excellent.

Diversions for irrigation above station.

ALAMOSA RIVER ABOVE TERRACE RESERVOIR, COLORADO

Location - Water stage recorder in Sec. 8, T. 36 N., R. 6 E., 3 miles upstream from Terrace Reservoir Dam, and 15 miles northwest of Capulin.

Drainage Area - 107 square miles.

Records Available - September, 1911 to June, 1912, April, 1914 to October, 1919, October, 1923 to September, 1927, October, 1934 to September 30, 1946.

Maximum discharge during period 1911-1912, 1914-1919, 1923-1927, 1934-1946 - 5,200 second feet, October 5, 1911, computed by weir formula. Gage height 11.0 feet, datum then in use, from flood marks.

Maximum Discharge - 1945 - 944 second feet, May 28. Gage height 3.33 feet.

Maximum Discharge - Year 1946 - 668 second feet June 6. Gage height 2.95 feet.

Accuracy - Records considered excellent except those for periods of no gage height record, November 12, 1944 to March 15, 1945, November 9, 1945 to March 11, 1946, which were computed on basis of discharge measurement and weather records, and are fair.

No diversions above station.

ALAMOSA RIVER BELOW TERRACE RESERVOIR, COLORADO

Location - Water stage recorder in Sec. 23, T. 36 N., R. 6 E., in canyon ½-mile downstream from Terrace Reservoir Dam and 11 miles northwest of Capulin.

Drainage Area - 116 square miles. Altitude 8,400 feet above mean sea level.

Records Available - April 18, 1909 to September 30, 1912, April 1, 1915 to October 31, 1915, February 1, 1917 to October 31, 1920, April 1, 1922 to September 30, 1946.

Maximum daily discharge during period 1909-1912, 1915, 1917-1920, 1922-1946 - 1,450 second feet, June 16-17-18, 1917.

Maximum Discharge - Year 1945 - 627 second feet June 6. Gage height 4.12 feet.

Maximum Discharge - Year 1946 - 483 second feet June 8. Gage height 3.84 feet.

Accuracy - Records considered good. Winter flows estimated on basis of discharge measurements and reservoir gate openings from November 13, 1944 to March 14, 1945, November 17, 1945 to March 11, 1946.

Diversions for storage above station. Flow regulated by Terrace Reservoir, capacity 17,700 acre feet.

LA JARA CREEK AT GALLEGOS RANCH, NEAR CAPULIN, COLORADO

Location - Water stage recorder in NE¼ Sec. 32, T. 34 N., R. 7 E., 2 miles upstream from old station called "La Jara Creek near Capulin" (records not comparable), 2¼ miles upstream from Canyon del Rancho, 11 miles southwest of Capulin, and 11½ miles downstream from La Jara Reservoir.

Drainage Area - 79 square miles.

Records Available - May 1, 1936 to September 30, 1946.

Maximum discharge during period 1936-1946 - 653 second feet April 15, 1937, from rating curve extended above 220 second feet. Gage height 5.94 feet.

Maximum Discharge - Year 1945 - 527 second feet July 31, from rating curve extended above 150 second feet. Gage height 5.21 feet.

Maximum Discharge - Year 1946 - 146 second feet April 22. Gage height 3.00 feet.

Accuracy - Records considered good, except those during periods of ice effect, March 12 to 22, 1946, wh ch were computed on basis of one discharge measurement and weather records, and are fair.

Diversions for storage and irrigation above station. Flow regulated by La Jara Reservoir, capacity 14,040 acre feet.

TRINCHERA CREEK ABOVE TURNER'S RANCH NEAR FORT GARLAND, COLORADO

Location - Water stage recorder in Sec. 2, T. 31 S., R. 71 W., upstream from Turner's Ranch and 7 miles southeast of Fort Garland. Station just downstream from confluence of North and South Forks.

Drainage Area - 45 square miles.

Records Available - April 1, 1923 to September 30, 1946.

Maximum discharge during period 1923-1946 - 689 second feet May 27, 1942, from rating curve extended above 220 second feet. Gage height 3.32 feet.

Maximum Discharge - Year 1945 - 138 second feet, May 13. Gage height 2.83 feet.

Maximum Discharge - Year 1946 - 44 second feet April 22. Gage height 2.27 feet.

Accuracy - Records considered good except those during period of ice effect and of missing gage heights, November 9, 10, 15-30, 1945, which were estimated, and are fair.

No diversions above station.

TRINCHERA CREEK ABOVE MOUNTAIN HOME RESERVOIR, NEAR FORT GARLAND, COLORADO

Location - Water stage recorder in Sec. 31, T. 30 S., R. 71 W., 1½ miles upstream from Mountain Home Reservoir dam and 4 miles southeast of Fort Garland.

Drainage Area - 61 square miles.

Records Available - May 1, 1923 to September 30, 1946.

Maximum discharge during period 1923-1946 - 391 second feet, May 27, 1942, from rating curve extended above 220 second feet. Gage height 3.83 feet.

Maximum Discharge - Year 1945 - 136 second feet, May 27. Gage height 1.63 feet.

Maximum Discharge - Year 1946 - 27 second feet April 24. Gage height 0.64 feet.

Accuracy - Records considered good except those during period of ice effect, November 15, 1944 to March 12, 1945 and November 15, 1945 to March 13, 1946, which were computed on basis of discharge measurements, weather records, and are fair.

Diversions for irrigation above station.

TRINCHERA CREEK BELOW SMITH RESERVOIR NEAR BLANCA, COLORADO

Location - Water stage recorder in Sec. 5, T. 31 S., R. 73 W., 1 mile downstream from Smith Reservoir, 5 miles southwest of Blanca, and just downstream from bridge on Blanca - San Acacia Highway.

Drainage Area - 396 square miles.

Records Available - October 1, 1929 to September 30, 1946.

Maximum daily discharge during period 1929-1946, 1,340 second feet May 11, 1942.

Maximum Discharge - Year 1945 - 245 second feet May 7. Gage height 3.33 feet.

Maximum Discharge - Year 1946 - 42 second feet March 8. Gage height 1.05 feet.

Accuracy - Records considered good except those for period of no gage height, November 23, 1944 to February 19, 1945, February 21-26, August 31 - September 8, November 16, 1945 to March 1, 1946, which were computed on the basis of 8 discharge measurements, and are fair.

Diversions for irrigation and storage above station. Flow regulated by Smith Reservoir, capacity 5,335 acre feet.

SANGRE DE CRISTO CREEK NEAR FORT GARLAND, COLORADO

Location - Water stage recorder in Sec. 23, T. 30 S., R. 72 W., 1½ miles east of Fort Garland, and 4 miles upstream from confluence of Ute Creek.

Drainage Area - 187 square miles.

Records Available - March 15 to October 9, 1916; May 1, 1923 to September 30, 1946.

Maximum discharge during period 1916, 1923-1946 - 1,520 second feet, by slope-area method, August 31, 1936. Gage height 6.10 feet.

Maximum Discharge - Year 1945 - 297 second feet May 5. Gage height 6.32 feet.

Maximum Discharge - Year 1946 - 65 second feet April 1. Gage height 4.90 feet.

Accuracy - Records considered good except those during periods of ice effect, November 15-30, 1944, March 1-12, 21, 22, April 3-5, 14, 1945 and November 8, 1945 to March 15, 1946, which were computed on basis of 10 discharge measurements, weather records, and are fair.

Diversions for irrigation above station.

UTE CREEK NEAR FORT GARLAND, COLORADO

Location - Water stage recorder in Sec. 2, T. 30 S., R. 72 W., 2½ miles north of Fort Garland, and 6 miles upstream from mouth.

Drainage Area - 32 square miles.

Records Available - March 16 to October 8, 1916, May 1, 1923 to September 30, 1946.

Maximum daily discharge during period 1918, 1923-1946, 630 second feet May 15, 1941.

Maximum Discharge - Year 1945 - 124 second feet May 5, 14. Gage height 2.03 feet.

Maximum Discharge - Year 1946 - 78 second feet, August 23. Gage height 1.57 feet.

Accuracy - Records considered excellent except those during period of missing gage heights and ice effect, November 22-30, 1944, March 1-22, 25-28, April 5, 1945, November 9-31, 1945 and March 1-22, 1946, which were computed on basis of discharge measurements and weather records, and are fair.

Diversions for irrigation above station.

CONEJOS RIVER AT PLATORO, COLORADO

Location - Water stage recorder in Sec. 22, T. 36 N., R. 4 E., ½ mile east of Platoro, and 5 miles downstream from Adams Fork.

Drainage Area - 44.4 square miles.

Records Available - April 1, 1937 to September 30, 1946.

Maximum discharge during period 1937-1946 - 1,310 second feet, June 25, 1941, from rating curve extended above 850 second feet. Gage height 3.15 feet.

Maximum Discharge - Year 1945 - 808 second feet, June 13. Gage height 2.70 feet.

Maximum Discharge - Year 1946 - 1,030 second feet, June 6. Gage height 2.93 feet.

Accuracy - Records considered good except those estimated during period of ice effect and missing gage heights, November 15-30, 1944, May 1-8, 15-22, 1945, November 8, 9, 17-30, 1945, which are fair.

No.diversions above station.

CONEJOS RIVER AT COUNSELLORS CABIN NEAR MOGOTE, COLORADO

Location - Water stage recorder in SE¼ Sec. 5, T. 33 N., R. 6 E., ½ mile downstream from Counsellors Cabin and 14 miles northwest of Mogote. Elk Creek enters 2 miles upstream.

Drainage Area - 211 square miles.

Zero of gage is 8,606.23 feet above mean sea level.

Records Available - October 1, 1943 to September 30, 1946.

Maximum Discharge during period 1943-1946 - 2,440 second feet June 1 and 2, 1944. Gage height 4.62 feet.

Maximum Discharge - Year 1945 - 2,020 second feet May 28, June 14. Gage height 4.15 feet.

Maximum Discharge - Year 1946 - 1,740 second feet June 7. Gage height 3.92 feet.

Accuracy - Records considered good except those for periods of ice effect or no gage heights, October 23 to November 30, 1944 and November 21 to December 31, 1945, which were computed on basis of weather records and comparison with record at Mogote, and are fair. Winter flow estimated , December, 1945 to March 29, 1946.

There are no diversions above station.

CONEJOS RIVER NEAR MOGOTE, COLORADO

Location - Water stage recorder in SE¼ Sec. 34, T. 33 N., R. 7 E., 3/4 mile downstream from Fox Creek, 5½ miles northwest of Mogote at Broyles Bridge, 12 miles west of Antonito.

Drainage Area - 282 square miles. Altitude 8,300 feet above mean sea level.

Records Available - September 1, 1899 to March 31, 1900, April 17, 1903 to October 31, 1905, at a point one mile downstream from present site; from March 21, 1907 to October 5, 1911, at site three miles upstream; from January 1, 1912 to September 30, 1946, at present site.

Maximum discharge during period 1899-1900, 1903-1905, 1907-1946 - 9,000 second feet October 5, 1911, from rating curve extended above 3,500 second feet. Gage height 8.50 feet, site and datum then in use.

Maximum Discharge - Year 1945 - 2,170 second feet May 29. Gage height 4.36 feet

Maximum Discharge - Year 1946 - 1,860 second feet June 7. Gage height 4.07 feet.

Accuracy - Records considered good except those during periods of ice effect, November 29, 1944 to March 10, 1945 and November 21, 1945 to March 10, 1946, which were computed on basis of 14 discharge measurements and weather records, and are fair.

No diversions or regulations above station.

CONEJOS RIVER NEAR LA SAUSES, COLORADO

Location - Two water stage recorders on two channels in Sec. 2, T. 35 N., R. 11 E., ½ mile upstream from mouth, and 2 miles north of La Sauses. Stream enters Rio Grande River through two channels and published record is combined flow.

Drainage Area - 887 square miles. Zero of gage (North Channel) is 7,495.02 feet above mean sea level, Colorado State Highway data.

Records Available - March 29, 1921 to September 30, 1946.

Maximum discharge during period 1921-1946 - 3,890 second feet, May 15, 1941.

Maximum Discharge - Year 1945 - 2,690 second feet, May 12.

Maximum Discharge - Year 1946 - 456 second feet, April 23.

Accuracy - Records considered good.

Diversions for irrigation above station.

SAN ANTONIO RIVER AT ORTIZ, COLORADO

Location - Water stage recorder in New Mexico, in Sec. 19, T. 32 N., R. 9 E., ¼ mile south of Colorado - New Mexico State line, ½ mile south of Ortiz, and ½ mile upstream from Los Pinos Creek.

Drainage Area - 110 square miles.

Records Available - January 1 to October 31, 1915, May 1, 1919 to October 31, 1920, October 1, 1924 to September 30, 1946.

Maximum discharge during period 1915, 1919-1920, 1924-1946 - 1,750 second feet, April 15, 1937, from rating curve extended above 1,100 second feet. Gage height 5.38 feet.

Maximum Discharge - Year 1945 - 1,070 second feet May 6. Gage height 4.11 feet.

Maximum Discharge - Year 1946 - 359 second feet April 22. Gage height 2.67 feet.

Accuracy - Records considered good except those during winter periods, November 18, 1944 to March 31, 1945, November 8, 1945 to April 3, 1946, which were computed on basis of 6 and 8 discharge measurements and weather records, and are fair.

Small diversions for irrigation above station.

SAN ANTONIO RIVER AT MOUTH NEAR MANASSA, COLORADO

Location - Water stage recorder in Sec. 21, T. 34 N., R. 10 E., near highway crossing, 1 mile upstream from mouth and 2½ miles east of Manassa.

Drainage Area - 348 square miles.

Records Available - April 1, 1923 to September 30, 1946.

Maximum discharge during period 1923-1946 - 2,620 second feet, May 14, 1941, from rating curve extended above 2,200 second feet. Gage height 6.26 feet.

Maximum Discharge - Year 1945 - 1,470 second feet, May 11. Gage height 5.89 feet.

Maximum Discharge - Year 1946 - 554 second feet, April 23. Gage height 3.93 feet.

Accuracy - Records considered good except those for periods of ice effect, November 19, 1944 to March 14, 1945, December 19, 1945 to March 11, 1946, which were based on discharge measurements and weather records, and are fair.

Diversions for irrigation above station.

LOS PINOS RIVER NEAR ORTIZ, COLORADO

Location - Water stage recorder in New Mexico in N½ Sec. 34, T. 32 N., R. 8 E., 1 mile south of Colorado - New Mexico State line, 2 miles southwest of Ortiz, and 2½ miles upstream from mouth.

Drainage Area - 167 square miles. Altitude 8,100 feet above mean sea level.

Records Available - January 1, 1915 to November 30, 1920, October 1, 1924 to September 30, 1946.

Maximum discharge during period 1914-1920, 1924-1946 - 3,160 second feet, May 12, 1941, from rating curve extended above 1,610 second feet. Gage height 5.77 feet.

Maximum Discharge - Year 1945 - 2,180 second feet May 10, from rating curve extended above 1,200 second feet. Gage height 5.13 feet.

Maximum Discharge - Year 1946 - 1,090 second feet April 24. Gage height 3.98 feet.

Accuracy - Records considered ~~good~~ excellent above 10 sec. ft and good below except those for periods of ice effect, November 20, 1944 to March 25, 1945 and December 9, 1945 to March 20, 1946, which were computed on basis of discharge measurements and weather records, and are fair.

Diversions for irrigation above station.

CULEBRA RIVER AT SAN LUIS, COLORADO

Location - Water stage recorder and 12-foot Parshall flume in Sec. 35, T. 3 N., R. 72 W.,(Beaubien Grant survey) 1 mile southeast of San Luis and 1½ miles upstream from Rito Seco.

Drainage Area - 220 square miles.

Records Available - May 1, 1909 to September 2, 1919, April 1, 1927 to September 30, 1946.

Maximum discharge during period 1909-1919, 1927-1946 - 595 second feet, May 30, 1942 from rating curve extended above 300 second feet. Gage height 4.84 feet.

Maximum Discharge - Year 1945 - 413 second feet August 6. Gage height 3.78 feet.

Maximum Discharge - Year 1946 - 299 second feet, August 9. Gage height 2.97 feet.

Accuracy - Records considered excellent except those for periods of no gage height and ice effect, December 26, 1944, January 29, 30, December 6-11, 13-20, 23-25, 1945, January 11-13, 15-21, January 30 to February 2, February 6, 1946, which were computed on basis of comparison with records of Culebra River below Mill, and are fair.

Diversions for irrigation and storage above station. Flow regulated by Sanchez Reservoir, capacity 103,000 acre feet.

CULEBRA RIVER BELOW SAN LUIS, COLORADO

Location - Water stage recorder in Sec. 27, T. 3 N., R. 72 W., (Beaubien Grant survey) 500 feet downstream from bridge on State Highway No. 159, 600 feet downstream from Rito Seco, and ½ mile southwest of San Luis. The tail-race from San Luis mill enters immediately upstream.

Drainage Area - 255 square miles.

Records Available - August 13, 1938 to September 30, 1946.

Maximum discharge during period 1938-1946 - 866 second feet, May 30, 1942, from rating curve extended above 400 second feet. Gage height 4.54 feet.

Maximum Discharge - Year 1945 - 426 second feet August 6. Gage height 3.18 feet.

Maximum Discharge - Year 1946 - 351 second feet, August 9. Gage height 2.93 feet.

Accuracy - Records considered good except those for periods of ice effect, January 21, 1945, and those for periods of missing gage heights, December 17, 1945 to March 22, 1946, May 20-22, 30 - June 21, August 11, 1946, which were computed on basis of discharge measurements, weather records, and comparison with record of Culebra River above San Luis, and are fair.

Diversions for irrigation and storage above station./

CLOSED BASIN IN SAN LUIS VALLEY, COLORADO

LA GARITA CREEK NEAR LA GARITA, COLORADO

Location - Water stage recorder in Sec. 10, T. 41 N., R. 6 E., at Curby Ranch, 4 miles southwest of La Garita post office.

Drainage Area - 61 square miles.

Records Available - April 1, 1919 to September 30, 1946.

Maximum discharge during period 1919-1946 - 457 second feet, May 16, 1941, from rating curve extended above 220 second feet. Gage height 5.11 feet.

Maximum Discharge - Year 1945 - 209 second feet, August 7, from rating curve extended above 50 second feet. Gage height 1,87?feet.

Maximum Discharge - Year 1946 - 88 second feet August 23. Gage height 1.25 feet.

Accuracy - Records considered fair.

Diversions for irrigation above station.

CARNERO CREEK NEAR LA GARITA, COLORADO

Location - Water stage recorder in Sec. 26, T. 42 N., R. 6 E., at O'Dell Ranch, 3 miles northwest of La Garita.

Drainage Area - 117 square miles.

Records Available - April 1, 1919 to September 30, 1946.

Maximum discharge during period 1919-1946 - 1,600 second feet July 21, 1945. Gage height 5.75 feet.

Maximum Discharge - Year 1945 - 1,600 second feet, July 21, from rating curve extended above 180 second feet. Gage height 5.75 feet.

Maximum Discharge - Year 1946 - 660 second feet August 12, from rating curve extended above 180 second feet. Gage height 3.44 feet.

Accuracy - Records considered fair.

Diversions for irrigation above station.

SAGUACHE CREEK NEAR SAGUACHE, COLORADO

Location - Water stage recorder in Sec. 11, T. 45 N., R. 6 E., at Ward's Ranch, 10 miles northwest of Saguache.

Drainage Area - 595 square miles.

Records Available - August 7, 1910 to September 23, 1912, June 1, 1914 to September 30, 1946.

Maximum discharge during period 1910-1912, 1914-1946 - 746 second feet, June 15, 1921. Gage height 3.45 feet, datum then in use.

Maximum Discharge - Year 1945 - 182 second feet August 6. Gage height 1.46 feet.

Maximum Discharge - Year 1946 - 152 second feet, April 18. Gage height 1.22 feet.

Accuracy - Records considered good except those for period of missing gage heights and during periods of ice effect, November 22, 1944 to March 14, 1945, November 7, 1945 to March 13, 1946, which were computed on basis of discharge measurements and weather records, and are fair.

Diversions for irrigation above station.

KERBER CREEK AT ASHLEY RANCH NEAR VILLA GROVE, COLORADO

Location - Water stage recorder in Sec. 7, T. 46 N., R. 8 E., at Ashley Ranch 10 miles west of Villa Grove.

Drainage Area - 38 square miles.

Records Available - June, 1923 to September, 1926; May, 1936 to September 30, 1946.

Maximum discharge during period 1923-1926, 1936-1946 - 407 second feet, May 14, 1941, from rating curve extended above 150 second feet. Gage height 3.88 feet.

Maximum Discharge - Year 1945 - 110 second feet, May 28. Gage height 3.18 feet.

Maximum Discharge - Year 1946 - not determined.

Accuracy - Records considered good except those during periods of missing gage heights, Oct. 21, 1944, May 1-3, August 27, 28, September 13, October 13-14, 18, 25, November 1, 6, 1945 and April 1-8, 15-17, June 19 to July 3, July 27-29, August 19-20, September 4, 9, 18-20, 25, 26, 30, 1946, which were computed on basis of discharge measurements and weather records, and are fair.

No diversions above station.

NORTH CRESTONE CREEK NEAR CRESTONE, COLORADO

Location - Water stage recorder in Sec. 5, T. 43 N., R. 12 E., 1½ miles upstream from Crestone and 3 miles upstream from South Crestone Creek.

Drainage Area - 10.7 square miles.

Records Available - 1915, May, 1936 to September 30, 1946.

Maximum discharge during period 1936-1946 - 735 second feet, by slope-area method, August 6, 1936. Gage height 4.33 feet.

Maximum Discharge - Year 1945 - 71 second feet May 26. Gage height 1.71 feet.

Maximum Discharge - Year 1946 - 56 second feet June 4. Gage height 1.58 feet.

Accuracy - Records considered good, except those during period of missing gage heights, November 18-30, 1944, March 1-29, 1945, March 13-15, 1946, April 20-29, 1946, which were computed on basis of discharge measurements, weather records, and comparison with records of nearby stations, and are fair.

No diversions above station.

COLORADO RIVER BASIN.

COLORADO RIVER BASIN

COLORADO RIVER NEAR GRAND LAKE, COLORADO

Location - Water stage recorder in Sec. 13, T. 3 N., R. 76 W., 3/4 mile upstream from Grand Lake outlet and 3 miles southwest of town of Grand Lake. Recorder moved 1,100 feet upstream September, 1944.

Drainage Area - 103 square miles (Revised).

Records Available - August, 1904 to September, 1909; October, 1910 to September 30, 1918; May 11, 1934 to September 30, 1946.

Maximum discharge during period 1904-1909, 1910-1918, 1934-1946 - 1,840 second feet June 15-16, 1918, site and datum then in use. Gage height 7.0 feet.

Maximum Discharge - Year 1945 - 452 second feet, June 25. Gage height 5.38 feet.

Maximum Discharge - Year 1946 - 470 second feet June 8. Gage height 5.24 feet.

Accuracy - Records considered excellent except those for periods of ice effect, November 16, 17, 20-24, 1944, November 26 to December 2, December 4, 5, 9-18, 28, 29, 1944, January 4, 5, 9-11, 15-30, February 5-7, February 17 to March 13, March 20-22, April 4, 5, November 9, 10, 14, 15, 19-30, December 1-10, 19-21, 31, 1945 and January 1-9, 12-17, 27-29, February 2, 3, 8, 9, 13, 14, 15, 17, 18, 26, 27, March 7-10, 18-20, 1946, and during period of missing gage heights, October 1-19, 1944, which were computed on basis of discharge measurements, weather records, and comparison with record for station near Granby, which are fair.

Diversions for irrigation above station. Grand River transmountain diversion from headwaters into Cache la Poudre River basin, through Poudre Pass.

Diversion by Grand River Ditch

Year 1945		Year 1946	
Month	Acre Feet	Month	Acre Feet
		April	93
May	546	May	1,930
June	8,850	June	10,440
July	10,360	July	4,520
August	3,310	August	1,600
September	229	September	239
Total	23,295	Total	18,822

COLORADO RIVER NEAR GRANBY, COLORADO

Location - Water stage recorder in Sec. 22, T. 2 N., R. 76 W., 4 miles northeast of Granby and 1½ miles upstream from Willow Creek.

Drainage Area - 322 square miles.

Records Available - June, 1908 to September, 1911; May 12, 1934 to September 30, 1946.

Maximum discharge during period 1908-1911, 1934-1946 - 4,100 second feet June 20, 1909. Gage height 5.5 feet, datum then in use.

Maximum Discharge - Year 1945 - 2,240 second feet June 25. Gage height 3.97 feet.

Maximum Discharge - Year 1946 - 2,070 second feet June 8. Gage height 3.82 feet.

Accuracy - Records considered good except those for periods of ice effect and periods of missing gage heights, November 16, 1944 to April 23, 1945, October 23, 1945 to April 16, 1946, which were computed on basis of discharge measurements, weather records, and are good.

Diversions for irrigation above station. Transmountain diversions above station by Grand River Ditch (see under preceding Station).

COLORADO RIVER AT HOT SULPHUR SPRINGS, COLORADO

Location - Water stage recorder in Sec. 1, T. 1 N., R. 78 W., 1 mile east of Hot Sulphur Springs at Thompson's Ranch, and 3 miles upstream from Beaver Creek.

Drainage Area - 782 square miles. Altitude 7,680 feet above mean sea level.

Records Available - July, 1904 to September, 1909; September, 1910 to September, 1924; October, 1925 to September 30, 1946.

Maximum discharge during period 1904-1909, 1910-1924, 1925-1946 - 10,300 second feet, June 15, 1921. Gage height 8.70 feet, site and datum then in use.

Maximum Discharge - Year 1945 - 3,360 second feet, June 25. Gage height 3.56 feet.

Maximum Discharge - Year 1946 - 3,060 second feet, June 8. Gage height 3.39 feet.

Accuracy - Records considered excellent except those for periods of ice effect, November 14, 1944 to April 10, 1945, November 9, 1945 to April 3, 1946, which were computed on basis of discharge measurements and weather records, and are fair.

Diversions for irrigation above station. Transmountain diversion through Moffat Tunnel and by Grand River Ditch, above station. These diversions tabulated in descriptions for Colorado River near Grand Lake and South Boulder Creek near Eldorado Springs.

COLORADO RIVER NEAR DOTSERO, COLORADO

Location - Water stage recorder in Sec. 6, T. 5 S., R. 86 W., 1½ miles west of Dotsero, and 1½ miles downstream from Eagle River.

Drainage Area - 4,390 square miles.

Records Available - December, 1940 to September 30, 1946.

Maximum discharge during period 1940-1946 - 15,400 second feet, June 7, 1942. Gage height 10.02 feet.

Maximum Discharge - Year 1945 - 9,520 second feet June 15. Gage height 8.00 feet.

Maximum Discharge - Year 1946 - 9,270 second feet June 9. Gage height 7.76 feet.

Accuracy - Records considered excellent except those for periods of ice effect and no gage height record, November 29, 1944 to February 4, 1945 and November 21, 1945 to March 10, 1946 - which were computed on basis of record for station at Glenwood Springs, and weather reports, and are fair.

Diversions for irrigation, storage, and transmountain diversions above station.

COLORADO RIVER AT GLENWOOD SPRINGS, COLORADO

Location - Water stage recorder in Sec. 9, T. 6 S., R. 89 W., at Glenwood Springs, Colorado, ½ mile upstream from Roaring Fork.

Drainage Area - 4,560 square miles. Zero of gage is 5,720.71 feet above mean sea level, adjustment of 1912.

Records Available - May 12, 1899 to September 30, 1946.

Maximum discharge during period 1899-1946 - 30,100 second feet, June 14-15, 1918. Gage height 12.55 feet.

Maximum Discharge - Year 1945 - 10,600 second feet, May 29. Gage height 7.87 feet.

Maximum Discharge - Year 1946 - 9,720 second feet June 9. Gage height 7.60 feet.

Accuracy - Records considered good.

Diversions for irrigation, storage, and transmountain diversions above station. During low water period, flow is regulated by Shoshone power plant 6 miles upstream.

COLORADO RIVER NEAR CAMEO, COLORADO

Location - Water stage recorder in Sec. 6, T. 10 S., R. 97 W., 6.7 miles northeast of Cameo and 3.4 miles upstream from mouth of Plateau Creek.

Drainage Area - 8,055 square miles.

Records Available - October, 1933 to September 30, 1946.

Maximum discharge during period 1933-1946 - 36,000 second feet June 16, 1935. Gage height 10.91 feet.

Maximum Discharge - Year 1945 - 18,800 second feet June 25. Gage height 8.19 feet.

Maximum Discharge - Year 1946 - 19,400 second feet June 18. Gage height 8.32 feet.

Accuracy - Records considered excellent except those for periods of ice effect, December 12, 1944 to January 18, 1945, December 10, 1945 to February 28, 1946, which were computed on basis of summation of records for Colorado River and Roaring Fork at Glenwood Springs, and are fair.

Diversions for irrigation and storage, including transmountain diversions, above station.

COLORADO RIVER NEAR CISCO, UTAH

Location - Water stage recorder in NW¼ Sec. 17, T. 23 S., R. 24 E., 1 mile downstream from Dolores River and 11 miles south of Cisco.

Drainage Area - 24,100 square miles. Altitude 4,088 feet above mean sea level.

Records Available - November, 1914 to September, 1917; October, 1922 to September 30, 1946.

Maximum discharge during period 1914-1917, 1922-1946 - 76,800 second feet June 19, 1917. Gage height 19.7 feet. Maximum discharge known, about 125,000 second feet, July 4, 1884, from flood record at Fruita.

Maximum Discharge - Year 1945 - 33,400 second feet May 13. Gage height 11.72 feet.

Maximum Discharge - Year 1946 - 27,100 second feet, June 10. Gage height ?

Accuracy - Records considered excellent except those for periods of ice effect, which are fair.

Diversions for irrigation above station, including transmountain diversions.

ARAPAHOE CREEK AT OUTLET OF MONARCH LAKE, COLORADO

Location - Water stage recorder in NE corner of Sec. 28, T. 2 N., R. 75 W., ¼ mile downstream from outlet of Monarch Lake and 10 miles east of Granby (Station relocated in October, 1944).

Drainage Area - 47.1 square miles.

Records Available - June, 1935 to September 30, 1946.

Maximum discharge during Period 1935-1946, 1,380 second feet June 22, 1938, from rating curve extended above 900 second feet. Gage height 4.31 feet (site and datum then in use).

Maximum Discharge - Year 1945 - 727 second feet June 25, from rating curve extended above 550 second feet. Gage height 3.81 feet.

Maximum Discharge - Year 1946 - 888 second feet June 7. Gage height 4.04 feet.

Accuracy - Records considered excellent except those for periods of ice effect, October 1, 1944 to May 19, 1945 and September 11-30, 1945 and November 19 to December 15, 1945, and March 31 to April 21, 1946, which were computed on basis of discharge measurements and weather records, and are fair.

Small diversions for irrigation above station. Flow partly regulated by Monarch Lake.

WILLOW CREEK NEAR GRANBY, COLORADO

Location - Water stage recorder in NW¼ Sec. 34, T. 3 N., R. 77 W., at highway bridge 7 miles northwest of Granby, and 100 feet downstream from Gold Run Creek.

Drainage Area - 105 miles. Zero of gage is 8,240.99 feet above mean sea level, datum of 1929.

Records Available - April, 1935 to September 30, 1946.

Maximum discharge during period 1935-1946 - 811 second feet May 16, 1938, from rating curve extended above 530 second feet. Gage height 4.49 feet.

Maximum Discharge - Year 1945 - 449 second feet May 19. Gage height 3.26 feet.

Maximum Discharge - Year 1946 - not recorded.

Accuracy - Records considered good except those for periods of ice effect or no gage height, November 11, 1944 to April 25, 1945, June 8-22, August 18 to September 19, 1945, October 24-26, November 8, 1945 to April 20, 1946, which were computed on basis of discharge measurements and weather records.

Diversions for irrigation of hay meadows above station.

FRASER RIVER NEAR WINTER PARK, COLORADO

Location - Water stage recorder in NE¼ Sec. 4, T. 2 S., R. 75 W., 1½ miles northwest of Winter Park and 2½ miles downstream from point of diversion for Moffat Tunnel. Winter Park formerly known as Arrow and West Portal.

Drainage Area - 27.6 square miles.

Records Available - September 23, 1910 to September 30, 1944.

Maximum discharge during period 1910-1946 - 820 second feet June 13, 1918. Gage height 2.9 feet.

Maximum Discharge - Year 1945 - 132 second feet June 25. Gage height 1.38 feet.

Maximum Discharge - Year 1946 - Undetermined.

Accuracy - Records considered good, except those for periods of ice effect or no gage height record, November 8-14, 16-18, 20, 1944 to December 5, 7-9, December 20, 1944 to January 9, 1945, January 9, 1945, January 20-25, February 1-14, 17-19, 22-24, 26 to March 2, March 4-14, 19-23, April 19 to May 1, 1945, and November 13-15, 19-25, December 3-5, 7-11, 19-31, 1945, January 3, 10, 12-18, 20-25, 27, February 11 to May 1, 1946, which were computed on basis of discharge measurements and weather records.

Transmountain diversions above station. Pioneer bore of the Moffat Tunnel has diverted water above this station since June 9, 1936. The combined flow of this diversion and Fraser River is comparable with records prior to June 9, 1936. The Berthoud Pass Ditch diverts small amounts from head waters into Clear Creek.

Diversions through Moffat Tunnel
from Fraser River above Winter Park Station

Water Year 1944-45		Water Year 1945-46	
Date	Acre Feet	Date	Acre-Feet
Oct.,1944	393	Oct., 1945	607
Nov.,1944	75	Apr., 1946	617
May, 1945	1,930	May, 1946	3,170
June, 1945	6,430	June, 1946	7,690
July, 1945	4,440	July, 1946	3,090
Aug., 1945	3,070	Aug., 1946	1,320
Sept., 1945	1,130	Sept., 1946	873
Total	17,468	Total	17,367

FRASER RIVER AT GRANBY, COLORADO

Location - Water stage recorder in Sec. 1, T. 1 N., R. 76½ W., just downstream from Tennile Creek, ½ mile southwest of Granby, and 2½ miles upstream from mouth.

Drainage Area - 285 square miles.

Records Available - August, 1904 to September, 1909; September 15, 1937 to September 30, 1946.

Maximum discharge during period 1904-1909, 1937-1946 - 1,860 second feet, June 14, 15, 1906.

Maximum Discharge - Year 1945 - 730 second feet, June 26. Gage height 2.10 feet.

Maximum Discharge - Year 1946 - 782 second feet, June 18. Gage height 2.15 feet.

Accuracy - Records considered excellent except those for periods of ice effect, November 10, 1944 to May 15, 1945, November 10, 1945 to April 3, 1946, which were computed on basis of discharge measurements and weather records, and are fair.

Transmountain diversions above station, as well as diversions for irrigation.

VASQUEZ CREEK NEAR WINTER PARK, COLORADO

Location - Water stage recorder in NW¼ Sec. 33, T. 1 S., R. 75 W., ½ mile upstream from mouth, 1½ miles downstream from Moffat Tunnel Diversion, and 2½ miles northwest of Winter Park. Present gage is 3/4 mile downstream from site used in 1907 to 1909.

Drainage Area - 27.8 square miles. Zero of gage is 8,768.48 feet above mean sea level, unadjusted.

Records Available - June, 1907 to October, 1909; August, 1934 to September 30, 1946.

Maximum discharge during period 1934-1946 - 396 second feet June 15, 1935. Gage height 2.64 feet.

Maximum Discharge - Year 1945 - 55 second feet May 11. Gage height 1.47 feet.

Maximum Discharge - Year 1946 - 37 second feet, April 25. Gage height 1.37 feet.

Accuracy - Records considered good above 8 second feet and fair below. Periods of ice effect, November 10-12, November 14 to December 28, 1944, April 1-26, November 8, 1945 to April 17, 1946, were computed on basis of discharge measurements and weather records.

The Pioneer bore of Moffat Tunnel started diverting water above this station May 26, 1937. Records of combined flow of this diversion and of Vasquez Creek are equivalent to records of flow of creek prior to May 26, 1937. See correction table published with run-off data for this station.

Diversions through Moffat Tunnel
from Vasquez Creek above Station near Winter Park

Date	Acre Feet	Date	Acre Feet
Oct., 1944	476	Oct., 1945	703
Nov., 1944	89	Apr., 1946	793
May, 1945	1,660	May, 1946	2,330
June, 1945	6,250	June, 1946	5,950
July, 1945	5,360	July, 1946	2,910
Aug., 1945	3,860	Aug., 1946	1,570
Sept., 1945	1,450	Sept., 1946	997
TOTAL	19,140	TOTAL	15,250

ST. LOUIS CREEK NEAR FRASER, COLORADO

Location - Water stage recorder in Sec. 34, T. 1 S., R. 76 W., 1/3 mile downstream from junction of East and West Branches, and 4½ miles southwest of Fraser. During 1907 and 1909 site maintained 2 miles upstream. Records not comparable.

Drainage Area - 32.8 square miles.

Records Available - June, 1907 to September, 1909; August, 1934 to September 30, 1946.

Maximum discharge during period 1934-1946 - 353 second feet June 15, 1935, from rating curve extended above 220 second feet. Gage height 2.58 feet.

Maximum Discharge - Year 1945 - 250 second feet June 24, from rating curve extended above 220 second feet. Gage height 2.28 feet.

Maximum Discharge - Year 1946 - 256 second feet June 17, from rating curve extended above 220 second feet. Gage height 2.30 feet.

Accuracy - Records considered excellent except those for period of ice effect and no gage height record, November 25, 1943 to May 1, 1945, November 8-18, 22-24, December 3-4, December 14, 1945 to April 11, 1946, which were computed on basis of discharge measurements and weather records, and are fair.

No diversions or regulation above station.

RANCH CREEK NEAR FRASER, COLORADO

Location - Water stage recorder in NW¼ Sec. 22, T. 1 S., R. 75 W., 150 yards downstream from South Fork and 3 miles east of Fraser at Arkall Ranch.

Drainage Area - 19.9 square miles.

Records Available - August, 1934 to September 30, 1946.

Maximum discharge during period 1934-1946 - 299 second feet June 15, 1935. Gage height 3.37 feet.

Maximum Discharge - Year 1945 - 178 second feet June 24. Gage height 2.72 feet.

Maximum Discharge - Year 1946 - 160 second feet June 6. Gage height 2.57 feet.

Accuracy - Records considered excellent except those for periods of ice effect, November 9-12, 16, 18, November 24, 1944 and February 27, 28, 1945, which were computed on basis of discharge measurements and weather records, and are fair.

No diversions above station.

RANCH CREEK NEAR TABERNASH, COLORADO

Location - Water stage recorder in Sec. 6, T. 1 S., R. 75 W., ½ mile upstream from Meadow Creek and 1½ miles east of Tabernash.

Drainage Area - 50.7 square miles. Zero of gage is 8,338.01 feet above mean sea level, unadjusted.

Records Available - September, 1934 to September 30, 1946.

Maximum discharge during period 1934-1946 - 506 second feet June 15, 1935, from rating curve extended above 250 second feet. Gage height 4.40 feet.

Maximum Discharge - Year 1945 - 270 second feet June 25. Gage height 3.47 feet.

Maximum Discharge - Year 1946 - 266 second feet June 6. Gage height 3.41 feet.

Accuracy - Records considered excellent except those for periods of ice effect, November 12, November 16, 1944 to May 6, 1945 and November 8, 1945 to April 19, 1946, which were computed on basis of discharge measurements and weather records, and are fair.

Diversions for irrigation above station.

MEADOW CREEK NEAR TABERNASH, COLORADO

Location - Water stage recorder in Sec. 15, T. 1 N., R. 75 W., 5 miles northeast of Tabernash.

Drainage Area - 7.0 square miles.

Records Available - May 27, 1936 to September 30, 1946.

Maximum discharge during period 1936-1946 - 267 second feet, June 13, 1945, from rating curve extended above 85 second feet. Gage height 3.88 feet.

Maximum Discharge - Year 1945 - 267 second feet June 13, from rating curve extended above 85 second feet. Gage height 3.88 feet.

Maximum Discharge - Year 1946 - 162 second feet June 6, from rating curve extended above 85 second feet. Gage height 3.29 feet.

Accuracy - Records considered good except those for periods of ice effect, November 9, 1944 to May 30, 1945 and November 2, 4, 5, November 7, 1945 to June 3, 1946, which were computed on basis of discharge measurements, weather records, and comparison with records of adjacent stations, and are fair.

No diversions above station.

STRAWBERRY CREEK NEAR GRANBY, COLORADO

Location - Water stage recorder in SW¼ SW¼ Sec. 32, T. 2 N., R. 75 W., 0.6 mile downstream from Little Strawberry Creek and 6 miles east of Granby.

Drainage Area - 12.6 square miles.

Records Available - May 28,1936 to September 30, 1945 (Discontinued).

Maximum discharge during period 1936-1945 - 132 second feet May 29, 1938, from rating curve extended above 110 second feet. Gage height 2.91 feet.

Maximum Discharge - Year 1945 - 51 second feet June 1. Gage height 1.91 feet.

Accuracy - Records considered good May 8 to August 22 - the remainder poor.

Two diversions for irrigation above station.

WILLIAMS FORK RIVER NEAR LEAL, COLORADO

Location - Water stage recorder in Sec. 31, T. 2 S., R. 77 W., just downstream from mouth of Kinney Creek and 2 miles north of Leal.

Drainage Area - 89.5 square miles (Revised).

Records Available - June 19, 1933 to September 30, 1946.

Maximum discharge during period 1933-1946 - 1,530 second feet June 21, 1938, from rating curve extended above 1,000 second feet. Gage height 3.81 feet.

Maximum Discharge - Year 1945 - 730 second feet June 26. Gage height 2.87 feet.

Maximum Discharge - Year 1946 - 868 second feet June 10. Gage height 3.08 feet.

Accuracy - Records considered good except those for periods of ice effect, January 20, 22, February 26-27, 1945, October 19-23, 25 to November 4, 1945, November 6-17, 19-24, 26-28 and December 8-20, 1945, January 10-13, 1946, which were computed on basis of weather records, and are fair.

Diversions for irrigation and transmountain diversion above station to South Platte River basin through Williams Fork Tunnel.

Diversions through Williams Fork Tunnel
from Williams Fork above Station near Leal

1945

Month	Acre Feet
July, 1945	5,550
August, 1945	2,560
September, 1945	641
Total	11.050

1946

Month	Acre Feet
May, 1946	1,110
June, 1946	5,910
July, 1946	2,800
August, 1946	840
September, 1946	340
Total	11,000

WILLIAMS FORK RIVER NEAR PARSHALL, COLORADO

Location - Water stage recorder in SE¼ Sec. 36, T. 1 N., R. 79 W., 2½ miles upstream from Battle Creek and 6 miles upstream from mouth of Williams Fork, and 4 miles south of Parshall.

Drainage Area - 186 square miles. Zero of gage is 7,805.00 feet above mean sea level, unadjusted.

Records Available - July, 1904 to September, 1924; June, 1933 to September 30, 1946.

Maximum discharge during period 1904-1924; 1933-1046 - 2,570 second feet June 14, 1918, from rating curve extended above 1,400 second feet. Gage height 6.0 feet, site and datum then in use.

Maximum Discharge - Year 1945 - 754 second feet June 26. Gage height 3.12 feet.

Maximum Discharge - Year 1946 - 1,050 second feet June 18. Gage height 3.50 feet.

Accuracy - Records considered excellent except those for periods of ice effect, November 22, 1944 to March 28, 1945, March 30, 31, April 5, October 14-17, November 10-13, November 24, 1945 to March 26, 1946, which were computed on basis of weather records, discharge measurements, and are fair.

Diversions for irrigation and transmountain diversion above station.

KEYSER CREEK NEAR LEAL, COLORADO

Location - Water stage recorder in SE¼ Sec. 33, T. 1 S., R. 77 W., 200 feet upstream from Simpson Creek and 7 miles northeast of Leal.

Drainage Area - 13.7 square miles.

Records Available - August, 1942 to September 30, 1946.

Maximum discharge during period 1942-1946 - 139 second feet, June 26, 1943 and June 17, 1946, from rating curve extended above 90 second feet. Gage height 2.71 feet, and 2.87 feet respectively.

Maximum Discharge - Year 1945 - 109 second feet June 24, from rating curve extended above 90 second feet. Gage height 2.60 feet.

Maximum Discharge - Year 1946 - 139 second feet June 17, from rating curve extended above 90 second feet. Gage height 2.87 feet.

Accuracy - Records considered good. During periods of ice effect, November 9, 1944 to May 16, 1945 and October 16, 1945 to April 29, 1946, discharge computed on basis of discharge measurements and comparison with records of nearby stations.

No diversions above station.

TROUBLESOME CREEK NEAR TROUBLESOME, COLORADO

Location - Water stage recorder in Sec. 12, T. 1 N., R. 80 W., at bridge 3/4 mile upstream from mouth and 1 mile northwest of old Troublesome postoffice.

Drainage Area - 178 square miles.

Records Available - 1904, 1905, 1922-1924, October 1, 1941 to September 30, 1946.

Maximum discharge during period 1922-1924, 1941-1946 - July 23, 1945, from rating curve extended above 370 feet.

Maximum Discharge - Year 1946 - 290 second feet April 30. Gage height 2.63 feet.

Accuracy - Records considered good except for period of ice effect, November 14, 1944 to April 23, 1945 and from November 8, 1945 to April 22, 1946, which were computed on basis of discharge measurements and weather records, and are fair.

Diversions for irrigation above station.

BLUE RIVER AT DILLON, COLORADO

Location - Water stage recorder in Sec. 18, T. 5 S., R. 77 W., at edge of Dillon, a short distance upstream from Snake River and Ten Mile Creek.

Drainage Area - 129 square miles. Zero of gage is 8,821.42 feet above mean sea level, unadjusted.

Records Available - October 15, 1910 to September 30, 1946.

Maximum discharge during period 1910-1946 - 1,180 second feet June 2 and June 14, 1924. Maximum gage height observed - 4.35 feet, June 2, 1914.

Maximum Discharge - Year 1945 - 610 second feet June 25, from rating curve extended above 450 second feet. Gage height 3.09 feet.

Maximum Discharge - Year 1946 - 585 second feet June 9. Gage height 3.00 feet.

Accuracy - Records considered excellent except those for periods of ice effect, November 9, 10, November 14, 1944 to April 19, 1945 and November 19, 1945 to April 24, 1946, which were computed on basis of discharge measurements, and weather records, and are fair.

Diversions above station, but practically all are returned to river above station.

BLUE RIVER ABOVE GREEN MOUNTAIN RESERVOIR NEAR KREMMLING, COLORADO

Location - Water stage recorder in NW¼ Sec. 34, T. 2 S., R. 79 W., at steel bridge just upstream from high water line of Green Mountain Reservoir, 1 mile downstream from Brush Creek and 18 miles southeast of Kremmling.

Drainage Area - 479 square miles. Zero of gage is 7,946.56 feet above mean sea level, unadjusted.

Records Available - May, 1944 to September 30, 1946.

Maximum discharge during period 1944-1946 - that of June 6, 1946.

Maximum Discharge - Year 1945 - 2,670 second feet June 25. Gage height 3.78 feet.

Maximum Discharge - Year 1946 - 2,820 second feet, June 6. Gage height 3.68 feet.

Accuracy - Records considered excellent except those for September, 1945 and those for period of ice effect, November 21, 1944 to April 8, 1945 and November 9, 1945 to April 22, 1946, which were computed on basis of discharge measurements and weather records, and are fair.

Diversions for irrigation above station, chiefly from tributaries.

BLUE RIVER BELOW GREEN MOUNTAIN RESERVOIR NEAR KREMMLING, COLORADO

Location - Water stage recorder in NE¼ Sec. 33, T. 1 S., R. 80 W., just downstream from Spring Creek, 4 miles downstream from Green Mountain Dam and 10 miles southeast of of Kremmling.

Drainage Area - 623 square miles.

Records Available - October, 1937 to September 30, 1944.

Maximum discharge during period 1937-1946 - 4,000 second feet June 4, 1938, from rating curve extended above 3,000 second feet. Gage height 5.93 feet.

Maximum Discharge - Year 1945 - 1,830 second feet August 7. Gage height 4.22 feet.

Maximum Discharge - Year 1946 - 1,860 second feet June 18. Gage height 4.25 feet.

Accuracy - Records considered excellent except those for periods of no gage height record, February 27, 1945 to March 6, April 4-8, December 9-10, 13-27, 1945, January 7-10, 17-31, 1946 and February 1-5, 11-13, 17, 1946, which were computed on basis of kilowatt hours generated by power plant.

Diversions for irrigation and storage above station. Green Mountain Reservoir capacity 280,500 acre feet, in operation in 1942.

SNAKE RIVER NEAR MONTEZUMA, COLORADO

Location - Water stage recorder in NW¼ Sec. 19, T. 5 S., R. 76 W., 200 feet downstream from mouth of North Fork, and 4½ miles northwest of Montezuma. Public Service power canal diverts water at point 500 feet downstream.

Drainage Area - 59 square miles.

Records Available - July 15, 1942 to September 30, 1946 (Discontinued).

Maximum discharge during period 1942-1946 - that of June 6, 1946.

Maximum Discharge - Year 1945 - 518 second feet June 24. Gage height 2.79 feet.

Maximum Discharge - Year 1946 - 567 second feet June 6. Gage height 2.90 feet.

Accuracy - Records considered good except those during period of ice effect, November 29, 1944 to April 4, 1945, November 9, 1945 to April 24, 1946, which were computed on basis of dischargemeasurements and weather records, and are fair.

Small diversions above station for irrigation purposes.

SNAKE RIVER AT DILLON, COLORADO

Location - Water stage recorder in Sec. 18, T. 5 S., R. 77 W., at private bridge at Dillon, 100 yards upstream from mouth.

Drainage Area - 92 square miles. Zero of gage is 8,820.54 feet above mean sea level, unadjusted.

Records Available - October 15, 1910 to September 30, 1919, December, 1929 to September 30, 1946.

Maximum discharge during period 1910-1919, 1929-1946 - 1,200 second feet June 13, 1935, from rating curve extended above 500 second feet. Gage height 4.25 feet.

Maximum Discharge - Year 1945 - 553 second feet June 25. Gage height 3.36 feet.

Maximum Discharge - Year 1946 - 575 second feet June 10. Gage height 3.40 feet.

Accuracy - Records considered excellent except those for periods of ice effect, November 9, 1944 to March 13, 1945, April 2-6, 1945, and October 18 to November 6, November 9, 1945 to March 13, 1946, which were computed on basis of discharge measurements and weather records, and are fair.

One diversion for power above station in Sec. 19, T. 5 S., R 76 W. Water is returned to Blue River just upstream from mouth of Straight Creek.

TENMILE CREEK AT FRISCO, COLORADO

Location - Water stage recorder in Sec. 34, T. 5 S., R. 78 W., 100 feet upstream from North Fork and ½ mile west of Frisco.

Drainage Area - 79 square miles. Zero of gage is 9,099.32 feet above mean sea level, unadjusted.

Records Available - July 17, 1942 to September 30, 1946.

Maximum discharge during period 1942-1946 - 643 second feet, June 9, 1944. Gage height 3.27 feet.

Maximum Discharge - Year 1945 - 567 second feet June 14. Gage height 3.09 feet.

Maximum Discharge - Year 1946 - 605 second feet, June 5. Gage height 3.17 feet.

Accuracy - Records considered good except those for period of ice effect and missing gage heights, November 23, 1944 to May 8, 1945 and November 8, 1945 to Sptil 25, 1946 and August 23 to September 5, 1946, which were computed on basis of discharge measurements, weather records, and comparison w th nearby station records, and are fair.

A few small diversions for irrigation above station. Flow partly regulated by Robinson Reservoir, capacity, 2,520 acre feet.

TENMILE CREEK AT DILLON, COLORADO

Location - Water stage recorder in Sec. 18, T. 5 S., R. 77 W., at Dillon, 250 feet downstream from highway bridge, and 200 yards upstream from mouth.

Drainage Area - 113 square miles. Zero of gage is 8,817.97 feet above mean sea level, unadjusted.

Records Available - October 15, 1910 to September 30, 1919; April, 1930 to September 30, 1946.

Maximum discharge during period 1910-1919, 1930-1946 - 2,010 second feet June 1, 1933, from rating curve extended above 1,000 second feet. Gage height 5.82 feet, site and datum then in use.

Maximum Discharge - Year 1945 - 776 second feet, June 13. Gage height 4.17 feet.

Maximum Discharge - Year 1946 - 870 second feet June 6. Gage height 4.34 feet.

Accuracy - Records considered excellent except those for October 1 to November 9, 1944 and those for periods of ice effect, November 10, 1944 to April 18, 1945 and November 8, 1945 to March 14, 1946, which were computed on basis of discharge measurements, weather records, and are fair.

Diversions for irrigation and mining above station. Robinson Reservoir, capacity 2,520 acre feet, partly regulates flow.

STRAIGHT CREEK NEAR DILLON, COLORADO

Location - Water stage recorder in NW¼ Sec. 4, T. 5 S., R. 77 W., 400 feet upstream from mouth of Laksey Creek, 1½ miles upstream from diversion for Public Service Company's power ditch, and 3½ miles northeast of Dillon.

Drainage Area - 12.8 square miles. Zero of gage is 9,392.69 feet above mean sea level, datum 1924, unadjusted.

Records Available - August 31, 1943 to September 30, 1946.

Maximum discharge during period 1943-1946 - 141 second feet, June 10, 1946, from rating curve extended above 70 second feet. Gage height 2.28 feet.

Maximum Discharge - Year 1945 - 128 second feet, from rating curve extended above 70 second feet. Gage height 2.19 feet.

Maximum Discharge - Year 1946 - 141 second feet, from rating curve extended above 70 second feet. Gage height 2.28 feet.

Accuracy - Records considered good except for periods of ice effect, from November 8-30, 1944, April 1 to May 8, 1945, and October 22-29, 1945, April 1-25, 1946, which are fair.

No diversions above station.

WILLOW CREEK NEAR DILLON, COLORADO

Location - Water stage recorder in NW¼ Sec. 1, T. 5 S., R. 78 W., near highway bridge on State Highway No. 9, 700 feet upstream from mouth and 3 miles northwest of Dillon.

Drainage Area - 13.5 square miles. Zero of gage is 8,691.59 feet above mean sea level, unadjusted.

Records Available - July 15, 1942 to September 30, 1946.

Maximum discharge during period 1942-1946 - 150 second feet June 2, 1943. Gage height 2.30 feet.

Maximum Discharge - Year 1945 - 102 second feet June 24. Gage height 2.10 feet.

Maximum Discharge - Year 1946 - 112 second feet June 18. Gage height 2.08 feet.

Accuracy - Records considered good except those during periods of ice effect and no gage height records, November 14, 1944 to April 6, 1945, April 12-15, 17-22, 24, 29, May 1-6, 8, and November 8, 1945 to April 26, 1946, which were computed on basis of discharge measurements and weather records, and are fair.

Diversions for irrigation above station.

ROCK CREEK NEAR DILLON, COLORADO

Location - Water stage recorder in NE¼ Sec. 9 T. 4 S., R. 78 W., at bridge on State Highway No. 9, ¼ mile upstream from mouth and 9 miles northwest of Dillon.

Drainage Area - 15.8 square miles. Zero of gage is 8,473.76 feet above mean sea level, unadjusted.

Records Available - July 16, 1942 to September 30, 1946.

Maximum discharge during period 1942 - 1946 - 199 second feet June 30, 1943 from rating curve extended above 140 second feet. Gage height 2.34 feet.

Maximum Discharge - Year 1945 - 188 second feet, June 14, from rating curve extended above 140 second feet. Gage height 2.24 feet.

Maximum Discharge - Year 1946 - 182 second feet June 6. Gage height 2.26 feet.

Accuracy - Records considered excellent above 5.0 second feet and good below, except those for periods of ice effect and no gage height record, which are fair. No gage height record December 1, 1944 to April 8, 1945 and October 28 - November 5, November 20, 1945 to May 4, 1946.

Numerous diversions for irrigation above station.

BOULDER CREEK NEAR DILLON, COLORADO

Location - Water stage recorder in NE¼ Sec. 4, T. 4 S., R. 78 W., at bridge on State Highway 9, 500 feet upstream from mouth and 10 miles northwest of Dillon.

Drainage Area - 9.7 Square miles. Zero of gage is 8456.79 feet above mean sea level, unadjusted.

Records Available - July, 1942 to September 30, 1946.

Maximum discharge during period 1942 to 1946 - 255 second feet June 21, 1943, from rating curve extended above 130 second feet. Gage height 2.97 feet.

Maximum Discharge - Year 1945 - 166 second feet June 24. Gage height 2.66 feet.

Maximum Discharge - Year 1946 - 159 second feet June 9. Gage height 2.82 feet.

Accuracy - Records considered good above 10 second feet and fair below.

Diversions for irrigation above station.

SLATE CREEK NEAR DILLON, COLORADO

Location - Water stage recorder in NE¼ Sec. 19, T. 3 S., R. 78 W., 2,000 feet upstream from mouth and 13 miles northwest of Dillon.

Drainage Area - 16.8 square miles. Zero of gage is 8227.70 feet above mean sea level.

Records Available - July 1942 to September 30, 1946.

Maximum discharge during period 1942-1946 - 288 second feet, May 22, 1945 from rating curve extended above 90 second feet. Gage height 2.66 feet.

Maximum Discharge - Year 1945 - 288 second feet May 22, from rating curve extended above 90 second feet. Gage height 2.66 feet.

Maximum Discharge - Year 1946 - 160 second feet June 18. Gage height 2.19 feet.

Accuracy - Records considered good above 5.0 second feet and fair below.

Diversions for irrigation above station.

BLACK CREEK BELOW BLACK LAKE NEAR DILLON, COLORADO

Location - Water stage recorder in Sec. 8, T. 3 S., R. 79 W., 3/4 mile downstream from Black Lake and 17 miles northwest of Dillon. Prior to May 28, 1943, staff gage at same site and datum.

Drainage Area - 15.2 square miles (Revised).

Records Available - July 17, 1942 to September 30, 1946.

Maximum discharge during period 1942-1946 - 384 second feet July 1, 1943, from rating curve extended above 170 second feet. Gage height 4.72 feet.

Maximum Discharge - Year 1945 - 257 second feet June 25. Gage height 3.93 feet.

Maximum Discharge - Year 1946 - 366 second feet, June 17. Gage height 4.51 feet.

Accuracy - Records considered excellent except those for September, 1945, and from December 15, 1944 to April 8, 1945 and January 6, 1946 to March 28, 1946, which were computed on basis of discharge measurements, weather records, and comparison with nearby stations, and are fair.

No diversions above station. Black Lake not regulated.

BLACK CREEK ABOVE GREEN MOUNTAIN RESERVOIR NEAR KREMMLING, COLORADO

Location - Water stage recorder in NE¼ Sec. 29, T. 2 S., R. 79 W., at highway bridge 16 miles southeast of Kremmling and just above high water line of Green Mountain Reservoir, and 16 miles southeast of Kremmling.

Drainage Area - 18.2 square miles.

Records Available - May 20, 1944 to September 30, 1946.

Maximum Discharge during period 1944-1946 - that of June 18, 1946.

Maximum Discharge - Year 1945 - 210 second feet June 23. Gage height 2.48 feet.

Maximum Discharge - Year 1946 - 230 second feet, June 18, Gage height 2.63 feet.

Accuracy - Records considered good above 50 second feet and fair below.

Several small diversions for irrigation above station.

OTTER CREEK ABOVE GREEN MOUNTAIN RESERVOIR NEAR KREMMLING, COLORADO

Location - Water stage recorder in NW¼ Sec. 29, T. 2 S., R. 79 W., a few hundred feet upstream from high water line of Green Mountain Reservoir, near the concrete conduit on State Highway No. 9, and 16 miles southeast of Kremmling.

Drainage Area - 9.4 square miles.

Records Available - May 20, 1944 to September 30, 1946.

Maximum discharge during period 1944-1946 - that of June 18, 1946.

Maximum Discharge - Year 1945 - 29 second feet June 25. Gage height 0.91 feet.

Maximum Discharge - Year 1946 - 49 second feet June 18. Gage height 1.13 feet.

Accuracy - Records considered good. Periods of ice effect, November 21, 1944 to April 9, 1945 and November 10, 1945 to April 22, 1946.

A few small diversions for irrigation above station.

CATARACT CREEK ABOVE GREEN MOUNTAIN RESERVOIR NEAR KREMMLING, COLORADO

Location - Water stage recorder in NE¼ Sec. 25, T. 2 S., R. 80 W., at Lawson Ranch 0.8 miles west of State Highway No. 9 and 16 miles southwest of Kremmling. Cataract Creek enters Green Mountain Reservoir, the high water line of which is 1 mile downstream.

Drainage Area - 15.5 square miles.

Records available - May 21, 1944 to September 30, 1946.

Maximum discharge during period 1944-1946 - That of June 8, 1946.

Maximum Discharge - Year 1945 - 291 second feet June 24, from rating curve extended above 110 second feet. Gage height 2.23 feet.

Maximum Discharge - Year 1946 - 333 second feet, June 8, from rating curve extended above 110 second feet. Gage height 2.45 feet.

Accuracy - Records considered good above 10 second feet and fair below, except for periods of no gage height and ice effect, November 2 , 1944 to April 9, 1945 and November 8, 1945 to April 22, 1946, which are poor.

A few diversions for irrigation above station.

ELLIOTT CREEK FEEDER CANAL TO GREEN MOUNTAIN RESERVOIR NEAR KREMMLING, COLORADO

Location - Water stage recorder in SE¼ Sec. 15, T. 2 S., R. 80 W., at lower end of canal section at entrance to concrete drop, 600 feet west of State Highway 9, 0.2 miles upstream from dam and 14 miles southeast of Kremmling. This feeder canal diverts practically all of the flow of Elliott Creek except during extreme high water.

Drainage Area of Elliott Creek above Feeder Canal headgate - 15.4 square miles.

Records Available - May 22, 1944 to September 30, 1946.

Maximum discharge during period 1944-1946 - that of June 25, 1945.

Maximum Discharge - Year 1945 - 212 second feet June 25. Gage height 3.33 feet.

Maximum Discharge - Year 1946 - 207 second feet June 10, Gage height 3.28 feet.

Accuracy - Records considered good except those for periods of no gage height record, November 15, 1944 to May 2, 1945, August 6, 1945 to April 23, 1946, which are poor.

PINEY RIVER NEAR STATE BRIDGE, COLORADO

Location - Water stage recorder in Sec. 16, T. 3 S., R. 82 W., at Perry Olsen Ranch just downstream from mouth of Rock Creek and 6 miles southeast of State Bridge.

Drainage Area - 82.6 square miles.

Records Available - May 30, 1944 to September 30, 1946.

Maximum discharge during period 1944-1946 - 576 second feet June 7, 1946. Gage height 2.39 feet.

Maximum Discharge - Year 1945 - 516 second feet May 26, from rating curve extended 350 second feet. Gage height 2.58 feet.

Maximum Discharge - Year 1946 - 576 second feet June 7. Gage height 2.39 feet.

Accuracy - Records considered good except those during ice effect periods, November 10, 1944 to April 1, 1945 and November 8, 1945 to April 10, 1946, computed on basis of discharge measurements and weather records.

A few small diversions for irrigation above station.

NORTH FORK OF PINEY RIVER NEAR STATE BRIDGE, COLORADO

Location - Water Stage recorder in NE Corner Sec. 29, T. 3 S., R. 81 W., 250 feet, upstream from mouth and 10 miles southeast of State Bridge.

Drainage Area - 14.8 square miles. Zero of gage is 7940.56 feet above mean sea level.

Records Available - August 11, 1944 to September 30, 1946. (Discontinued)

Maximum Discharge - Year 1945 - 360 second feet May 26. Gage height 2.25 feet.

Maximum Discharge - Year 1946. Not determined.

Accuracy - Records considered fair.

No diversions above station.

EAGLE RIVER AT REDCLIFF, COLORADO

Location - Water stage recorder in SW¼ Sec. 20, T. 6 S., R. 80 W., at upper end of Redcliff and 1/3 mile upstream from Turkey Creek.

Drainage Area - 72.2 square miles. Zero of gage is 8,652.02 feet above mean sea level, datum of 1929.

Records Available - October, 1910 to September, 1925, May 25, 1944 to September 30, 1946.

Maximum discharge during period 1910-1925, 1944-1946 - 1,010 second feet, June 5, 1912, from rating curve extended above 500 second feet. Gage height 4.0 feet, site and datum then in use.

Maximum Discharge - Year 1945 - 201 second feet May 28. Gage height 2.96 feet.

Maximum Discharge - Year 1946 - 262 second feet June 6. Gage height 3.14 feet.

Accuracy - Records considered good except those for periods of ice effect, November 14, 1944 to April 5, 1945 and November 4, 1945 to March 26, 1946, which were computed on basis of discharge measurements and weather records, and are fair.

Diversions for irrigation and transmountain diversions to Arkansas River and Tennile Creek above station. For record of transmountain diversions, Ewing, Wurts, and Columbine Ditches, refer to table in station description of Arkansas River at Granite.

TURKEY CREEK AT REDCLIFF, COLORADO

Location - Water stage recorder in Sec. 19, T. 6 S., R. 80 W., at highway bridge in Redcliff and 800 feet upstream from mouth.

Drainage Area - 28.6 square miles. Zero of gage is 8,639.42 feet above mean sea level, datum of 1929.

Records Available - June, 1913 to September, 1921, May 24, 1944 to September 30, 1946.

Maximum discharge during period 1913-1941, 1944-1946 - 670 second feet June 13, 1918. Gage height 4.7 feet, datum then in use.

Maximum Discharge - Year 1945 - 232 second feet June 14, from rating curve extended above 140 second feet.

M Maximum Discharge - Year 1946 - 281 second feet June 10, from rating curve extended above 140 second feet.

Accuracy - Records considered excellent except those below 8 second feet, which are fair.

A few small diversions for irrigation above station.

HOMESTAKE CREEK NEAR REDCLIFF, COLORADO

Location - Water stage recorder in Sec. 6, T. 7 S., R. 80 W., at Forest Service bridge 3 miles upstream from mouth and 3 miles south of Redcliff.

Drainage Area - 58.9 square miles.

Records Available - May 25, 1944 to September 30, 1946, October, 1910 to September, 1918, at sites near mouth, published as Homestake Creek at Redcliff, 1911-16 and near Redcliff 1917-18. Records are practically equivalent.

Maximum discharge during period - 1,300 second feet June 24, 1918. Gage height 6.2 feet site and datum then in use.

Maximum Discharge - Year 1945 - 708 second feet June 23, from rating curve extended above 370 second feet. Gage height 3.68 feet.

Maximum Discharge - Year 1946 - 822 second feet June 7, from rating curve extended above 370 second feet. Gage height 3.87 feet.

Accuracy - Records considered excellent except those for periods of no gage heights and ice effect, November 18, 1944 to May 1, 1945 and November 8, 1945 to April 5, 1946, which were computed on basis of discharge measurements and weather records, and are fair.

No diversions above station.

GORE CREEK NEAR MINTURN, COLORADO

Location - Water stage recorder in SW¼ Sec. 14, T. 5 S., R. 81 W., at private bridge 1 mile upstream from mouth and 2 miles north of Minturn. This station is close to U. S. Highway 6.

Drainage Area - 100 square miles.

Records Available - May 26, 1944 to September 30, 1946.

Maximum discharge during period 1944-1946 - that of June 24, 1945.

Maximum Discharge - Year 1945 - 1,140 second feet June 24, from rating curve extended above 760 second feet. Gage height 4.45 feet. Maximum

Maximum Discharge - Year 1946 - 1,010 second feet June 6, from rating curve extended above 760 second feet. Gage height 4.47 feet.

Accuracy - Records considered excellent except those during ice effect, October 1, 1944 to April 5, 1945.

A few small diversions for irrigation above station.

ROARING FORK RIVER AT ASPEN, COLORADO

Location - Water stage recorder in Sec. 7, T. 10 S., R. 84 W., at bridge near old Power Plant in Aspen, 3/4 mile upstream from Hunter Creek.

Drainage Area - 109 square miles. Zero of gage is 7,884.58 feet above mean sea level, datum of 1929.

Records Available - January 1, 1911 to September 30, 1921; April 24, 1932 to September 30, 1946.

Maximum discharge during period 1911-1921, 1932-1946 - 3,170 second feet June 18, 1917, from rating curve extended above 1,200 second feet. Gage height 7.2 feet, former site and datum.

Maximum Discharge - Year 1945 - 620 second feet, June 15. Gage height 3.52 feet.

Maximum Discharge - Year 1946 - 978 second feet, June 18. Gage height 4.18 feet.

Accuracy - Records considered good except those for periods of ice effect, November 16, 20-23, 1944, November 25 to January 10, 1945, January 22, 23, 28, 29, February 3-28, April 4, 5, 1945 and November 9-17, November 22, 1945 to February 24, 1946, which were computed on basis of discharge measurements and weather records, and are fair.

Transmountain diversion at point 15 miles upstream through Twin Lakes Tunnel to Arkansas River basin since May 24, 1935.

Twin Lakes Tunnel Diversion

Water Year 1944-45

Date	Acre Feet
Oct. 1944	80
Nov. 1944	182
Dec. 1944	154
Jan. 1945	123
Feb. 1945	100
Mar. 1945	111
Apr. 1945	275
May 1945	5520
June 1945	18980
July 1945	13220
Aug. 1945	4960
Sept. 1945	1070
Total	44780

Water Year 1945-46

Date	Acre Feet
Oct. 1945	661
Nov. 1945	234
Dec. 1945	188
Jan. 1946	125
Feb. 1946	95
Mar. 1946	95
Apr. 1946	1560
May 1946	5690
June 1946	21580
July 1946	7150
Aug. 1946	1390
Sept. 1946	553
	39320

ROARING FORK RIVER AT GLENWOOD SPRINGS, COLORADO

Location - Water stage recorder in Sec. 9, T. 6 S., R. 89 W., at Glenwood Springs 1,500 feet upstream from mouth.

Drainage Area - 1,460 square miles. Zero of gage is 5,720.73 feet above mean sea level, adjustment of 1912.

Records Available - April, 1906 to September, 1909, September,1910 to September 30, 1946.

Maximum discharge during period 1906-1909, 1910-1946, 17,600 second feet June 14, 1918, and June 14, 1921.

Maximum Discharge - Year 1945 - 7,520 second feet, June 25. Gage height 5.10 feet.

Maximum Discharge - Year 1946 - 9,580 second feet, June 18. Gage height 6.03 feet.

Accuracy - Records considered good except those during periods of ice effect, January 14 to February 4, 1946, which are fair.

Diversions for irrigation above station. Transmountain diversions by Twin Lakes and Busk-Ivanhoe Tunnels from head waters into Arkansas River Basin. Total flow diverted by Twin Lakes Tunnel during water years 1944-45 was 44,780 and 1945-46 was 39,320 acre feet and diversions by Busk-Ivanhoe Tunnel from Fryingpan River was 4,930 acre feet during water year 1944-1945 and 4,580 acre feet during water year 1945-46.

CRYSTAL RIVER NEAR REDSTONE, COLORADO

Location - Water stage recorder in NE¼ Sec. 9,T.9 S., R. 88 W., 75 feet downstream from Nettle Creek and 7 miles downstream from Redstone.

Drainage Area - 197 square miles. Zero of gage is 6,485.07 feet above mean sea level, unadjusted.

Records Available - May 12, 1935 to September 30, 1946.

Maximum discharge during period 1935-1946 - 4,400 second feet June 21, 1938, from rating curve extended above 2,400 second feet. Gage height 5.96 feet.

Maximum Discharge - Year 1945 - 1,930 second feet, June 25. Gage height 4.11 feet. Maximum gage height 5.00 feet, July 25 (discharge may have been greater than that of June 25).

Maximum Discharge - Year 1946 - 2,908 second feet, June 18. Gage height 6.02 feet.

Accuracy - Records considered good except those for periods of ice effect and no gage height, January ~~1945~~ 6-9, 1945, November 30, 1945 to February 22, 1946 and May 14-24, June 1-4, 1946, which were computed on basis of discharge measurements and weather records, and are fair.

Diversions for irrigation above station.

FOURMILE CREEK NEAR CARBONDALE, COLORADO

Location - Water stage recorder in SE¼ Sec. 38, T. 7 S., R. 90 W., at Holy Cross National Forest boundary, 9 miles west of Carbondale.

Drainage Area - 8.0 square miles.

Records Available - April, 1942 to September 30, 1946.

Maximum discharge during period 1942-1946 - 146 second feet, May 15, 1944. Gage height 2.86 feet.

Maximum Discharge - Year 1945 - 92 second feet, May 6, from rating curve extended above 24 second feet. Gage height 2.52 feet.

Maximum Discharge - Year 1946 - 74 second feet, April 24. Gage height 2.25 feet.

Accuracy - Records considered good except those during periods of ice effect, April 5 to May 4, 1945 and November 7, 1945 to April 22, 1946, which were computed on basis of discharge measurements and weather reports, and are fair.

No diversions or regulations above station.

WEST DIVIDE CREEK BELOW WILLOW CREEK NEAR RAVEN, COLORADO

Location - Water stage recorder in NE¼ Sec. 14, T. 9 S., R. 91 W., at Weatherly Ranch, ¼ mile downstream from Willow Creek and 15 miles south of Raven.

Drainage Area - 32.7 square miles.

Records Available - April 1, 1938 to September 30, 1946.

Maximum discharge during period 1938-1946 - 876 second feet, May 13, 1941, from rating curve extended above 320 second feet. Gage height 3.27 feet.

Maximum Discharge - Year 1945 - 338 second feet, May 13. Gage height 2.55 feet.

Maximum Discharge - Year 1946 - 698 second feet, May 15. Gage height 3.33 feet.

Accuracy - Records considered excellent above 15 second feet and good below, except those for periods of no gage heights and ice effect, December 1, 1944, April 15, 1945, November 7 to December 24, 1945 and January 3 to April 14, 1946, which were computed on basis of discharge measurements and weather records, and are fair.

Transmountain diversions into basin above station from Clear Fork of East Muddy Creek (Gunnison River Basin) and from Thompson Creek (Roaring Fork Basin). No diversion records during 1945 and 1946.

RIFLE CREEK NEAR RIFLE, COLORADO

Location - Water stage recorder in NE¼ Sec. 18, T. 5 S., R. 92 W., 1 mile downstream from West Rifle Creek and 6.2 miles northeast of Rifle.

Drainage Area - 140 square miles.

Records Available - October, 1940 to September 30, 1946. (Discontinued)

Maximum discharge during period 1940-1946 - 348 second feet, May 27, 1942, from rating curve extended above 140 second feet. Gage height 2.98 feet, site and datum then in use.

Maximum Discharge - Year 1945 - 343 second feet, August 5, from rating curve extended above 110 second feet. Gage height 3.91 feet.

Maximum Discharge - Year 1946 - 215 second feet, August 23. Gage height 2.85 feet.

Accuracy - Records considered fair. During ice effect period and periods of missing gage heights, records were computed on basis of weather reports.

Diversions for irrigation above station. Some regulation of low flows by power plant on East Rifle Creek.

PLATEAU CREEK NEAR COLLBRAN, COLORADO

Location - Water stage recorder in NE¼ Sec. 26, T. 9 S., R. 94 W., 7 miles east of Collbran.

Drainage Area - 88 square miles.

Records Available - August 20, 1921 to September 30, 1946.

Maximum discharge during period 1921-1946 - 2,800 second feet May 28, 1922, from rating curve extended above 1,300 second feet. Gage height 6.72 feet, site and datum then in use.

Maximum Discharge - Year 1945 - 1,610 second feet, June 13, from rating curve extended above 1,100 second feet. Gage height 5.09 feet.

Maximum Discharge - Year 1946 - 1,200 second feet, June 6. Gage height 4.78 feet.

Accuracy - Records considered good except those during periods of ice effect, November 10, 1944 to March 23, 1945, October 24-27, November 10-30, December 3-4, 17-25, 1945, January 7, to March 7, 1946, March 17, 18, 22, 23, 26, 1946, which were computed on basis of discharge measurements and weather records, and are fair.

Five small diversions for irrigation above station.

PLATEAU CREEK NEAR CAMEO, COLORADO

Location - Water stage recorder in SW¼ Sec. 18, T. 10 S., R. 97 W., 1.1 miles upstream from mouth, and 4 miles northeast of Cameo.

Drainage Area - 604 square miles.

Records Available - April 26, 1936 to September 30, 1946

Maximum discharge during period 1936-1946 - 3,920 second feet, May 27, 1942, from rating curve extended above 3,000 second feet. Gage height 7.73 feet.

Maximum Discharge - Year 1945 - 1,830 second feet, May 27. Gage height 5.15 feet.

Maximum Discharge - Year 1946 - 1,040 second feet, June 7. Gage height 4.04 feet.

Accuracy - Records considered good except those for periods of ice effect, November 27, 1944 to January 17, 1945, January 23, 24, 26-31, March 6, 7, 1945, December 10, 1945 to March 11, 1946 and March 24 to April 3, 1946, which were computed on basis of discharge measurements, weather records, and are fair. Period of no gage height record, July 28 to August 16, 1946 computed on basis of records for station near Collbran.

Diversions for irrigation above station.

BUZZARD CREEK NEAR COLLBRAN, COLORADO

Location - Water stage recorder in Sec. 14, T. 9 S., R. 94 W., ½ mile upstream from Brush Creek and 7 miles east of Collbran.

Drainage Area - 139 square miles.

Records Available - August 18, 1921 to September 30, 1946.

Maximum discharge during period 1921-1946 - 1,630 second feet, May 14, 1941, from rating curve extended above 900 second feet. Gage height 7.80 feet.

Maximum Discharge - Year 1945 - 678 second feet, May 12. Gage height 4.91 feet.

Maximum Discharge - Year 1946 - 450 second feet, April 29. Gage height 4.07 feet.

Accuracy - Records considered good except those for periods of ice effect, November 27, 1944 to April 17, 1945 and from November 7, 1945 to April 2, 1946, which were computed on basis of discharge measurements, weather records, and records for nearby stations, and are fair.

Diversions for irrigation above station.

BIG CREEK AT UPPER STATION NEAR COLLBRAN, COLORADO

Location - Water stage recorder in NE¼ Sec. 5, T. 11 S., R. 94 W., ½ mile downstream from Barter Creek and 8 miles south of Collbran.

Drainage Area - 17.3 square miles.

Records Available - June, 1945 to September 30, 1946.

Maximum discharge during period 1945-1946 - that of June 4, 1946.

Maximum Discharge - Year 1945 - 160 second feet, August 7. Gage height 3.89 feet.

Maximum Discharge - Year 1946 - 268 second feet, June 4. Gage height 4.35 feet.

Accuracy - Records considered good except for periods of no gage height record, October 23-25, 1945 and ice effect, November 7-10, 1945, January 13 to March 26, 1946, which were computed on basis of discharge measurements and weather records and are fair.

No diversions above station. Several small storage reservoirs above station for irrigation.

COTTONWOOD CREEK AT UPPER STATION NEAR MOLINA, COLORADO

Location - Water stage recorder and Parshall flume in SE¼ Sec. 3, T. 11 S., R. 95 W., 6 miles southeast of Molina.

Drainage Area - 16.3 square miles.

Records Available - May, 1945 to September 30, 1946.

Maximum discharge during period 1945-46 - 81 second feet, May 12, 1946. Gage height 2.80 feet.

Maximum Discharge - Year 1945 - 74 second feet, May 26. Gage height 2.70 feet.

Maximum Discharge - Year 1946 - 81 second feet, May 12. Gage height 2.80 feet.

Accuracy - Records considered excellent. Record for period of no gage height record, November 2, 1945 to April 9, 1946 computed on basis of 5 discharge measurements, weather records, and comparison with nearby stations.

No diversions above station. Several small reservoirs above station for irrigation.

BULL CREEK AT UPPER STATION NEAR MOLINA, COLORADO

Location - Water stage recorder in SW¼ Sec. 5, T. 11 S., R. 95 W., 6 miles south of Molina.

Drainage Area - 9.7 square miles.

Records Available - May, 1945 to September 30, 1946.

Maximum discharge during period 1945-1946 - 58 second feet, September 7, 1945. Gage height 2.07 feet.

Maximum Discharge - Year 1945 - 58 second feet, September 7. Gage height 2.07 feet.

Maximum Discharge - Year 1946 - 34 second feet, June 7. Gage height 1.84 feet.

Accuracy - Records considered excellent. During period of ice effect, October 24-26, 1945, November 8-22, December 7-9, 1945, February 26,27, 1946, March 1-2, 6, 8-9, 17-18, 22, 26, 1946, records were computed on basis of 2 discharge measurements and weather records.

One diversion for irrigation and several small storage reservoirs for irrigation above station.

COON CREEK AT UPPER STATION NEAR MESA, COLORADO

Location - Water stage recorder in NE¼ Sec. 16, T. 11 S., R. 96 W., 5 miles south of Mesa.

Drainage Area - 6.1 square miles. Altitude 7,230 feet above mean sea level (by barometer).

Records Available - May 1, 1945 to September 30, 1946.

Maximum discharge during period 1945-1946 - 35 second feet, May 12, 1945. Gage height 2.37 feet.

Maximum Discharge - Year 1945 - 35 second feet, May 12. Gage height 2.37 feet.

Maximum Discharge - Year 1946 - 20 second feet, April 28. Gage height 2.05 feet.

Accuracy - Records considered good. During periods of ice effect, November 8, 1945 to April 3, 1946, records computed on basis of discharge measurements and weather records, and are fair.

One small diversion for irrigation above station. Flow regulated by several small reservoirs on headwaters.

MESA CREEK NEAR MESA, COLORADO

Location - Water stage recorder in SW¼ Sec. 16, T. 11 S., R. 96 W., 1/8 mile upstream from unnamed stream and 5½ miles southeast of Mesa. Prior to April 29, 1943, staff gage at site ½ mile upstream, at different datum.

Records Available - April 1, 1941 to September 30, 1946.

Maximum discharge during period 1941-1946 - 140 second feet, May 12, 1941, from rating curve extended above 50 second feet. Gage height 2.00 feet, site and datum then in use.

Maximum Discharge - Year 1945 - 38 second feet, June 16. Gage height 1.43 feet.

Maximum Discharge - Year 1946 - 24 second feet, April 28. Gage height 1.30 feet.

Accuracy - Records considered good except those during periods of ice effect, November 15, 1944 to April 9, 1945, October 24, November 20-22, December 3, 4, 1945 and January 1, 7, 26-27, February 9, 13, 27-28, March 1-26, 1946, which were computed on basis of discharge measurements and weather records, and are fair.

Several small reservoirs above, and many diversions below station.

TAYLOR RIVER BELOW TAYLOR PARK RESERVOIR, COLORADO

Location - Water stage recorder in Sec. 24, T. 14 S., R. 83 W., ¼ mile downstream from Taylor Park Reservoir Dam, and 16 miles northeast of Almont.

Drainage Area - 245 square miles. Zero of gage is 9168.67 feet above mean sea level (Bureau of Reclamation B.M.).

Records Available - October 1, 1938 to September 30, 1946.

Maximum discharge during period 1938-1946 - 1,220 second feet, June 19, 1942. Gage height 4.25 feet.

Maximum Discharge--Year 1945; 653 second feet June 25. Gage height 3.25 feet.

Maximum Discharge--Year 1946; 1,060 second feet June 9. Gage height 4.03 feet.

Accuracy--Records considered excellent except those for periods of no gage height record, November 1, 1944 to June 8, 1945, November 10, 1945 to March 31, 1946. Discharge computed on basis of discharge measurements and records of release through needle valve from Taylor Park Reservoir, and are good. Flow regulated by Taylor Park Reservoir, capacity 111,260 acre feet (Capacity revised as decreed).

TAYLOR RIVER AT ALMONT, COLORADO

Location--Water stage recorder in Sec. 22, T. 51 N., R. 1 E., at highway bridge in Almont, 800 feet upstream from confluence with East River.

Drainage Area--440 square miles. Zero of gage is 8,010.76 feet above mean sea level, datum of 1929.

Records Available--July 27, 1910 to September 30, 1946.

Maximum discharge during period 1910-1946--3,760 second feet June 9, 1920, from rating curve extended above 2,300 second feet. Gage height 5.00 feet.

Maximum Discharge--Year 1945 - 864 second feet, June 25. Gage height 2.97 feet.

Maximum Discharge--Year 1946 - 1,440 second feet June 8. Gage height 3.64 feet.

Accuracy--Records considered excellent except those for periods of ice effect and no gage height record, November 11, 1944 to April 3, 1945, April 15 to May 23, 1945, and November 9, 1945 to March 12, 1946, which were computed on basis of discharge measurements and weather records, and are fair. Flow is controlled by Taylor Park Reservoir above station, capacity 111,260 acre feet.

Diversions for irrigation from tributaries above station.

GUNNISON RIVER NEAR GUNNISON, COLORADO

Location--Water stage recorder in Sec. 35, T. 50 N., R. 1 W., ½ mile downstream from Antelope Creek and 1 mile west of Gunnison. Former gage at site 1 mile downstream and at different datum.

Drainage Area--1,010 square miles.

Records Available--October, 1910 to November 1914, October, 1915 to December, 1928, October, 1944 to September 30, 1946.

Maximum discharge during period 1910-1914, 1915-1928, 1944-1946--11,400 second feet June 13, 1918, from rating curve extended above 5,000 second feet. Gage height 4.05 feet, site and datum then in use.

Maximum Discharge--Year 1945 - 2,620 second feet June 25. Gage height 4.32 feet.

Maximum Discharge--Year 1946 - 3,480 second feet June 8. Gage height 4.84 feet.

Accuracy--Records considered good except those during periods of no gage height record and ice effect, October 1, 1944 to April 10, 1945, November 10 to December 9, December 15, 1945 to April 4, 1946, which were computed on basis of discharge measurements and are fair.

Diversions above station for irrigation. Flow partly regulated by Taylor Park Reservoir.

GUNNISON RIVER AT IOLA, COLORADO

Location--Water stage recorder in NW¼ Sec. 28, T. 49 N., R. 2 W., 1,000 feet upstream from highway bridge and 3,000 feet northeast of Iola. During 1900-1903 station maintained 1,000 feet downstream at different datum. Records comparable.

Drainage Area--2,490 square miles. Zero of gage is 7,434.63 feet above mean sea level, datum of 1929.

Records Available--1900 to 1903, April 20, 1938 to September 30, 1946.

Maximum discharge during period 1900-1903, 1938-1946--6,130 second feet June 18, 1903. Gage height 6.00 feet, site and datum then in use.

Maximum Discharge--Year 1945 - 2,890 second feet June 23. Gage height 2.98 feet.

Maximum Discharge - Year 1946 - 3,920 second feet June 9. Gage height 3.60 feet.

Accuracy--Records considered good except those for periods of ice effect, November 17, 1944 to April 12, 1945, November 10, 1945 to April 5, 1946, which were computed on basis of three discharge measurements each period, weather records, and are fair.

Diversions for storage and irrigation above station. Flow partly regulated by Taylor Park Reservoir.

GUNNISON RIVER BELOW GUNNISON TUNNEL NEAR MONTROSE, COLORADO

Location - Water stage recorder in NW¼ Sec. 10 T. 49 N., R. 7 W., ½ mile downstream from East Portal of Gunnison Tunnel and 12 miles northeast of Montrose. Former station at site ½ mile upstream, just above East Portal.

Drainage Area--3,980 square miles. Zero of gage is 6,527.06 feet above mean sea level, datum of 1929.

Records Available--January 20, 1943 to September 30, 1946, April, 1905 to September, 1911, at site above East Portal. Records prior to 1943 include diversions by tunnel.

Maximum discharge during period 1905-1911, 1943-1946--15,000 second feet (discharge measurement) June 14, 1906.

Maximum Discharge--Year 1945 - 5,700 second feet June 15. Gage height 7.36 feet.

Maximum Discharge--Year 1946 - 6,740 second feet June 7. Gage height 7.81 feet.

Accuracy--Records considered excellent, except those for period of no gage height or ice effect, October 1-12, 1944, November 22, 1944 to March 24, 1945, December 6, 1945 to March 21, 1946, which were computed on basis of discharge measurements and weather records, and are fair.

Diversions for irrigation and also by the Gunnison Tunnel above station.

GUNNISON RIVER NEAR GRAND JUNCTION, COLORADO

Location - Water stage recorders on river and canal in NW¼ Sec. 35, T. 1 S., R. 1 W., Ute meridian, ⅝ mile downstream from point of diversion of Redlands Power Canal and 2 miles upstream from mouth and Grand Junction.

Drainage Area - 8,020 square miles. Zero of gage is 4,555.14 feet above mean sea level, datum of 1929.

Records Available - May, 1897 to September, 1899 (at site near mouth); April, 1917 to September, 1930, January, 1934 to September 30, 1946.

Maximum discharge during period 1917-1930, 1933-1946, 35,700 second feet May 23, 1920, from rating curve extended above 21,400 second feet. Gage height 14.95 feet.

Maximum Discharge - Year 1945 - 15,800 second feet, May 12.

Maximum Discharge - Year 1946 - 10,900 second feet, June 17.

Accuracy - Records considered excellent except those for periods of missing gage heights and of ice effect, December 31, 1944 to January 5, 1945, April 1-5, December 13-30, 1945, January 29 to February 19, 1946, which were computed on basis of discharge measurements and weather records, and are fair.

Diversions for irrigation above station. Discharges recorded are combination of river discharge and Redlands power canal diversion. Combined flow of river and power canal minus about 40 second feet diverted during irrigation season represents entire flow that enters Colorado River from Gunnison River Basin.

EAST RIVER NEAR CRESTED BUTTE, COLORADO

Location - Water stage recorder in NE¼ Sec. 5, T. 14 S., R. 85 W., at highway bridge, 1.2 miles downstream from Brush Creek and 4½ miles east of Crested Butte.

Drainage Area - 89.2 square miles.

Records Available - April 20, 1941 to September 30, 1946.

Maximum discharge during period 1941-1946 - 1,060 second feet, June 27, 1944, from rating curve extended above 700 second feet. Gage height 2.72 feet.

Maximum Discharge - Year 1945 - 870 second feet, June 14. Gage height 2.50 feet.

Maximum Discharge - Year 1946 - 918 second feet, June 18. Gage height 2.56 feet.

Accuracy - Records considered excellent except those of no gage height record and ice effect period, November 10, 1944 to April 29, 1945 and November 9-11, 14-16, November 18, 1945 to May 6, 1946, which were computed on basis of discharge measurements and weather records, and are fair.

Small diversions for irrigation above station.

EAST RIVER AT ALMONT, COLORADO

Location - Water stage recorder in Sec. 22, T. 51 N., R. 1 E., at Almont, 400 feet upstream from mouth.

Drainage Area - 296 square miles. Zero of gage is 8,008.29 feet above mean sea level, datum of 1929.

Records Available - April to October, 1905, July, 1910 to April, 1922, October, 1934 to September 30, 1946.

Maximum discharge during period 1905, 1910-1922, 1934-1946 - 6,500 second feet June 15, 1921, from rating curve extended above 3,000 second feet. Gage height 6.6 feet, site and datum then in use.

Maximum Discharge - Year 1945 - 1,840 second feet, June 15. Gage height 3.95 feet.

Maximum Discharge - Year 1946 - 1,960 second feet, June 18. Gage height 4.08 feet.

Accuracy - Records considered excellent except those for periods of ice effect, November 12, 1944 to February 13, 1945, April 15 to May 3, November 10-20, 22-30, December 3, 1945 to March 10, 1946, which were computed on basis of discharge measurements, weather records, and are fair.

Diversions for irrigation above station.

SLATE RIVER NEAR CRESTED BUTTE, COLORADO

Location - Water stage recorder in NW¼ Sec. 2, T. 14 S., R. 86 W., ½ mile downstream from Coal Creek and 1 mile east of Crested Butte.

Drainage Area - 69.0 square miles. Zero of gage is 8,826.83 feet above mean sea level, datum of 1929.

Records Available - April 18, 1941 to September 30, 1946.

Maximum discharge during period 1941-1946 - 1,240 second feet, May 13, 1941. Gage height 3.98 feet.

Maximum Discharge - Year 1945 - 930 second feet, June 15. Gage height 3.88 feet.

Maximum Discharge - Year 1946 - 1,040 second feet June 9. Gage height 3.78 feet.

Accuracy - Records considered good except those for periods of ice effect or no gage height record, November 16, 1944 to April 29, 1945 and November 9-10, 14, November 17, 1945 to April 9, 1946, which were computed on basis of discharge measurements and weather records and are fair.

Diversions for irrigation above station.

COAL CREEK NEAR CRESTED BUTTE, COLORADO

Location - Water stage recorder in Sec. 1, T. 14 S., R. 87 W., 0.2 mile downstream from Elk Creek and 4 miles west of Crested Butte on state highway 135. Station is located about 200 feet downhill from highway.

Drainage Area - 8.5 square miles. Zero of gage is 9,495.80 feet above mean sea level, datum of 1929.

Records Available - October 1, 1941 to September 30, 1946 (Discontinued).

Maximum discharge during period 1941-1946 - 246 second feet, June 14, 1945. Gage height 2.79 feet.

Maximum Discharge - Year 1945 - 246 second feet, June 14. Gage height 2.79 feet.

Maximum Discharge - Year 1946 - 204 second feet, June 8. Gage height 2.58 feet.

Accuracy - Records considered good except those during periods of no gage height record and ice effect periods, October 26, 1944 to March 31, 1945, November 8-10, December 23-24, 30, 31, 1945, January 1-3, 1946 January 11 to May 6, 1946, which were computed on basis of discharge measurements and weather records, and are poor.

No diversions above station. Some water released from Lake Brennan (Anthracite Creek Basin) for use of Town of Crested Butte.

CEMENT CREEK NEAR CRESTED BUTTE, COLORADO

Location - Water stage recorder in SE¼ Sec. 13, T. 14 S., R. 85 W., near Pioneer Resort, 1½ miles upstream from Ward Gulch and 9 miles southeast of Crested Butte.

Drainage Area - 27.7 square miles.

Records Available - November, 1910 to November, 1913, at site two miles downstream at different datum; April 18, 1941 to September 30, 1946.

Maximum discharge during period 1910-1913, 1941-1946 - 330 second feet June 7, 1912, from rating curve extended above 270 second feet. Gage height 1.9 feet, site and datum then in use.

Maximum Discharge - Year 1945 - 155 second feet, June 14. Gage height 2.43 feet.

Maximum Discharge - Year 1946 - 170 second feet, June 7. Gage height 2.59 feet.

Accuracy - Records considered good except those for period of ice effect or of no gage height record, November 16-27, 1944, December 1, 1944 to April 17, 1945, November 9-11, November 15, 1945 to April 10, 1946, which were computed on basis of discharge measurements and weather records, and are fair.

Diversions for irrigation above station.

OHIO CREEK NEAR BALDWIN, COLORADO

Location - Water stage recorder in SW¼ Sec. 34, T. 15 S., R. 86 W., 800 feet downstream from Mill Creek and 5½ miles southeast of Baldwin.

Drainage Area - 124 square miles.

Records Available - April 15, 1941 to September 30, 1946.

Maximum discharge during period 1941-1946 - 1,040 second feet, May 17, 1944, from rating curve extended above 700 second feet. Gage height 4.21 feet.

Maximum Discharge - Year 1945 - 620 second feet, May 12. Gage height 3.13 feet.

Maximum Discharge - Year 1946 - 432 second feet, June 18. Gage height 2.59 feet.

Accuracy - Records considered excellent except those during periods of ice effect or no gage height record, November 10, 1944 to April 15, 1945, and November 8, 1945 to April 8, 1946, which were computed on basis if discharge measurements and weather records, and are fair.

Many small diversions for irrigation above station.

OHIO CREEK NEAR GUNNISON, COLORADO

Location - Water stage recorder in Sec. 23, T. 50 N., R. 1 W., ½ mile upstream from mouth and 2 miles northwest of Gunnison.

Drainage Area - 150 square miles.

Records Available - October, 1944 to September 30, 1946.

Maximum discharge during period 1944-1946 - 498 second feet, May 14, 1945, from rating curve extended above 300 second feet. Gage height 4.98 feet.

Maximum Discharge - Year 1946 - 498 second feet May 14, from rating curve extended above 300 second feet. Gage height 4.98 feet.

Maximum Discharge - Year 1946 - 448 second feet, June 17. Gage height 4.71 feet.

Accuracy - Records considered good except those for periods of ice effect and no gage height record, November 9, 1944 to April 11, 1945 and November 8, 1945 to March 14, 1946, which were computed on basis of discharge measurements and weather records, and are fair.

Diversions for irrigation above station.

CASTLE CREEK NEAR BALDWIN, COLORADO

Location - Water stage recorder in Sec. 2, T. 15 S., R. 87 W., 1-3/4 miles upstream from mouth and 2 miles southeast of Baldwin.

Drainage Area - 17.5 square miles.

Records Available - October, 1944 to September, 1946.

Maximum discharge during period 1944-1946 - that of July 23, 1945.

Maximum Discharge - Year 1945 - 362 second feet, July 23, from rating curve extended above 100 second feet. Gage height 6.62 feet.

Maximum Discharge - Year 1946 - 264 second feet June 17, from rating curve extended above 120 second feet. Gage height 5.65 feet.

Accuracy - Records considered good above 20 second feet and fair below.

No diversions above station.

TOMICHI CREEK AT SARGENTS, COLORADO

Location - Water stage recorder in SW¼ Sec. 21, T. 48 N., R. 5 E., ½ mile downstream from Marshall Creek and 3/4 mile south of Sargents. Station maintained from 1917 to 1922 at site 1,000 feet upstream, at different datum.

Drainage Area - 155 square miles.

Records Available - May, 1917 to September, 1922, April, 1938 to September 30, 1946.

Maximum discharge during period 1917-1922, 1938-1946 - 792 second feet, June 9, 1921, from rating curve extended above 600 second feet. Gage height 4.05 feet, site and datum then in use.

Maximum Discharge - Year 1945 - 335 second feet, May 28. Gage height 2.11 feet.

Maximum Discharge - Year 1946 - 146 second feet, June 6. Gage height 1.35 feet.

Accuracy - Records considered excellent except those for periods of ice effect, November 10, 1944 to April 22, 1945, November 9, 1945 to April 3, 1946, which were computed on basis of discharge measurements and weather records, and are fair.

Diversions for irrigation above station.

TOMICHI CREEK NEAR DOYLEVILLE, COLORADO

Location - Water stage recorder in NE¼ Sec. 22, T. 48 N., R. 4 E., ¼ mile downstream from Tie Creek and 6 miles southeast of Doyleville, along U. S. Highway 50.

Drainage Area - 228 square miles.

Records Available - November, 1944 to September 30, 1946.

Maximum discharge during period 1944-1946 - That of May 28, 1945.

Maximum Discharge - Year 1945 - 336 second feet May 28, from rating curve extended above 210 second feet. Gage height 5.51 feet.

Maximum Discharge - Year 1946 - 153 second feet, May 11. Gage height 4.72 feet.

Accuracy - Records considered excellent except those for periods of ice effect or no gage height record, from November 1, 1944 to April 26, 1945, and November 9-11, November 27 to April 1, 1946, which were computed on basis of discharge measurements and weather records, and are fair.

Small diversions for irrigation above station.

TOMICHI CREEK AT PARLIN, COLORADO

Location - Water stage recorder in NW¼, Sec. 23, T. 49 N., R. 2 E., at Parlin and ½ mile downstream from Quartz Creek.

Drainage Area - 586 square miles.

Records Available - November, 1944 to September 30, 1946.

Maximum discharge during period 1944-1946 - That of May 16, 1945.

Maximum Discharge - Year 1945 - 354 second feet May 16, from rating curve extended above 220 second feet. Gage height 5.21 feet.

Maximum Discharge - Year 1946 - 161 second feet April 30. Gage height 4.59.

Accuracy - Records considered good except for periods of no gage height record and ice effect, November 1, 1944 to April 5, 1945, November 15-16, 21-23, December 14, 1945 to April 3, 1946, which were computed on basis of discharge measurements and weather records, and are fair.

Diversions for irrigation above station.

TOMICHI CREEK AT GUNNISON, COLORADO

Location - Water stage recorder in Sec. 11, T. 49 N., R. 1 W., ½ mile upstream from mouth and 1 mile south of Gunnison, on road to airport.

Drainage Area - 1,020 square miles. Zero of gage 7,628.58 feet above mean sea level, datum of 1929.

Records Available - April 20, 1938 to September 30, 1946.

Maximum discharge during period 1938-1946 - 1,530 second feet, March 24, 1939, from rating curve extended above 1,000 second feet. Gage height 3.93 feet.

Maximum Discharge - Year 1945 - 570 second feet, May 15. Gage height 2.63 feet.

Maximum Discharge - Year 1946 - 310 second feet, June 9. Gage height 2.11 feet.

Accuracy - Records considered good, except those for periods of ice effect or no gage height record, November 12, 1942 to April 10, 1945, and December 4, 1945 to April 14, 1946, which were computed on basis of discharge measurements, and weather records, and are fair.

Diversions for irrigation above station.

QUARTZ CREEK NEAR OHIO, COLORADO

Location - Water stage recorder in SW¼ Sec. 27, T. 50 N., R. 3 E., ½ mile downstream from Willow Creek and 1 mile southwest of Ohio.

Drainage Area - 101 square miles.

Records Available - April 29, 1938 to September 30, 1946.

Maximum discharge during period 1938-1946 - 640 second feet, May 26, 1942, from rating curve extended above 470 second feet. Gage height 2.90 feet.

Maximum Discharge - Year 1945 - 313 second feet, August 1.

Maximum Discharge - Year 1946 - 344 second feet, June 6. Gage height 2.97 feet.

Accuracy - Records considered good, except those during periods of ice effect or no gage height record, November 10, 1944 to April 10, 1945 and November 9-11, November 17, 1945 to April 3, 1946, which were computed on basis of discharge measurements and weather records, and are fair.

Diversions for irrigation above station.

COCHETOPA CREEK NEAR PARLIN, COLORADO

Location - Water stage recorder in NW¼ Sec. 28, T. 48 N., R. 2 E., at Timney Ranch, 1 mile downstream from Bead Creek and 8 miles southwest of Parlin.

Drainage Area - 346 square miles. Zero of gage is 8,131.76 feet above mean sea level, datum of 1929.

Records Available - April 1, 1941 to September 30, 1946.

Maximum discharge during period 1941-1946 - 594 second feet, May 14, 1944, from rating curve extended above 380 second feet. Gage height 5.02 feet.

Maximum Discharge - Year 1945 - 166 second feet, August 8. Gage height 2.44 feet.

Maximum Discharge - Year 1946 - 127 second feet, June 7. Gage height 2.21 feet.

Accuracy - Records considered excellent except those during periods of ice effect or no gage height record, November 11, 1944 to April 11, 1945 and November 9, 1945 to March 25, 1946, March 27 to April 1, 1946, which were computed on basis of discharge measurements, weather records, and are fair.

Diversions for irrigation above station.

CEBOLLA CREEK AT POWDERHORN, COLORADO

Location - Water stage recorder in SE¼ Sec. 29, T. 47 N., R. 2 W., 250 feet downstream from Powderhorn Creek and ½ mile north of Powderhorn.

Drainage Area - 334 square miles.

Records Available - April 21, 1938 to September 30, 1946.

Maximum discharge during period 1938-1946 - 2150 second feet, May 16, 1944, from rating curve extended above 710 second feet. Gage height 3.00 feet.

Maximum Discharge - Year 1945 - 458 second feet, May 27. Gage height 1.12 feet.

Maximum Discharge - Year 1946 - 970 second feet, July 18. Gage height 2.10 feet.

Accuracy - Records considered good, except those for periods of ice effect or no gage height record, November 13, 1944 to April 18, 1945, November 10, 1945 to April 6, 1946, which were computed on the basis of discharge measurements, weather records, and are poor.

Diversions for irrigation above station.

SAPINERO CREEK AT SAPINERO, COLORADO

Location - Water stage recorder in center of Sec. 28, T. 49 N., R. 4 W., 50 feet upstream from U. S. Highway 50 and 3/4 mile northeast of Sapinero.

Drainage Area - 85.5 square miles. Zero of gage is 7,226.84 feet above mean sea level, datum of 1929.

Records Available - October, 1910 to September, 1914; April 13, 1946 to September 30, 1946.

Maximum Discharge - Year 1946 - 290 second feet, June 7. Gage height 3.71 feet.

Accuracy - Records considered good.

Diversions for irrigation above station.

LAKE FORK RIVER AT GATEVIEW, COLORADO

Location - Water stage recorder in Sec. 29, T. 47 N., R. 3 W., at Carr Ranch (Old Gateview postoffice) ½ mile upstream from Indian Creek and approximately 15 miles upstream from mouth.

Drainage Area - 370 square miles (Revised). Zero of gage is 7,828.66 feet above mean sea level, datum of 1929.

Records Available - April 24, 1938 to September 30, 1946.

Maximum discharge during period 1938-1946 - 2,620 second feet, June 21, 1938, from rating curve extended above 1,800 second feet. Gage height 5.00 feet.

Maximum Discharge - Year 1945 - 1,460 second feet, June 15. Gage height 2.47 feet.

Maximum Discharge - Year 1946 - 1,790 second feet, June 7. Gage height 3.71 feet.

Accuracy - Records considered excellent except those for periods of no gage height record, or ice effect, November 10, 1944 to April 12, 1945 and October 1-5, November 9, 1945 to April 7, 1946, September 11-30, 1946, which were computed on basis of discharge measurements, weather records, and comparison with records of nearby streams, which are fair.

Diversions for irrigation above station.

CURACANTI CREEK NEAR SAPINERO, COLORADO

Location - Water stage recorder in SE¼ Sec. 29, T. 49 N., R. 5 W., 50 feet upstream from bridge on Colorado Highway 92 and 6 miles west of Sapinero.

Drainage Area - 31.8 square miles. Zero of gage is 7,696.55 feet above mean sea level.

Records Available - April 15 to September 30, 1946.

Maximum Discharge - Year 1946 - 248 second feet, June 7, from rating curve extended above 133 second feet.

Accuracy - Records considered good.

Diversions for irrigation above station.

CIMARRON CREEK BELOW SQUAW CREEK AT CIMARRON, COLORADO

Location - Water stage recorder in SW¼ Sec. 5, T. 48 N., R. 6 W., 850 feet downstream from Squaw Creek and ½ mile northeast of Cimarron.

Drainage Area - 232 square miles. Zero of gage is 6,864.10 feet above mean sea level, datum of 1929.

Records Available - April, 1943 to September 30, 1946.

Maximum discharge during period 1943-1946 - 1,290 second feet, May 16, 1944, from rating curve extended above 738 second feet. Gage height 6.17 feet.

Maximum Discharge - Year 1945 - 1,100 second feet, June 14, from rating curve extended above 750 second feet. Gage height 5.89 feet.

Maximum Discharge - Year 1946 - 1,040 second feet, June 11, from rating curve extended above 738 second feet. Gage height 5.75 feet.

Accuracy - Records considered excellent except for period of ice effect or no gage height record, November 15, 1944 to March 6, 1945, May 1-11, November 10-11, November 22, 1945 to April 16, 1946, which were computed on basis of discharge measurements, weather records, and are fair.

Diversions for irrigation above station. During water year 1944-1945, 26,880 acre feet were diverted above station to Uncompahgre River basin by Cimarron and Owl Creek ditches. No record of diversions during 1946.

CRYSTAL CREEK NEAR MAHER, COLORADO

Location - Water stage recorder in SE¼ Sec. 35, T. 50 N., R. 6 W., 1 mile downstream from North Fork and 7 miles southeast of Maher.

Drainage Area - 39.1 square miles.

Records Available - April, 1917 to September, 1919, at site ½ mile downstream, July, 1945 to September 30, 1946.

Maximum discharge during period 1917-1919, 1945-1946 - 419 second feet, June 13, 1917. Gage height 3.2 feet, site and datum then in use.

Maximum Discharge - Year 1945 - 75 second feet, August 12. Gage height 3.04 feet.

Maximum Discharge - Year 1946 - 194 second feet, April 25. Gage height 3.44 feet.

Accuracy - Records considered good, except for ice effect or no gage height record, November 9-10, 14-15, 17-19, 21-23, 1945, December 3, 1945 to March 6, 1946, which were computed on basis of 2 discharge measurements and weather records, and are fair.

One diversion for irrigation above station.

SMITH FORK NEAR CRAWFORD, COLORADO

Location - Water stage recorder in Sec. 24, T. 15 S., R. 91 W., just upstream from Second Creek, 6 miles northeast of Crawford.

Drainage Area - 42.3 square miles. Altitude - 7,200 feet above mean sea level (by barometer).

Records Available - February, 1941 to June 30, 1944, April 1, 1945 to September 30, 1946.

Maximum discharge during period 1941-1944, 1945-1946 - 513 second feet, May 13, 1941, from rating curve extended above 430 second feet. Gage height 3.80 feet.

Maximum Discharge - Year 1945 - 472 second feet, May 13. Gage height 3.98 feet.

Maximum Discharge - Year 1946 - 256 second feet, April 23. Gage height 2.90 feet.

Accuracy - Records considered good except those for period of no gage height, July 18 to September 30, 1945, November 9-10, 14, 19, 27, and period of ice effect, December 3, 1945 to March 10, 1946, which were computed on basis of discharge measurements and weather records, and are fair.

Diversions for irrigation above station.

EAST MUDDY CREEK NEAR BARDINE, COLORADO

Location - Water stage recorder in Sec. 17, T. 12 S., R. 89 W., ¼ mile downstream from Spring Creek and 6½ miles upstream from Bardine.

Drainage Area - 136 square miles. Zero of gage is at 6,654.78 feet above mean sea level, datum of 1929.

Records Available - May 18, 1935 to September 30, 1946.

Maximum discharge during period 1935-1946 -2190 second feet, May 13, 1941, from rating curve extended above 800 second feet. Gage height 3.41 feet.

Maximum Discharge - Year 1945 - 1,160 second feet, May 12. Gage height 2.40 feet.

Maximum Discharge - Year 1946 - 662 second feet, April 28. Gage height 1.69 feet.

Accuracy - Records considered poor. No gage height record and ice effect, November 15, 16, November 20, 1944 to April 6, 1945, August 26, 27, August 30 to September 30, 1945, October 1-12, 14-31, November 16, 1945 to February 28, 1946, March 6-28, August 26, September 18, 1946.

Diversions for irrigation above station.

NORTH FORK OF GUNNISON RIVER NEAR SOMERSET, COLORADO

Location - Water stage recorder in Sec. 10, T. 13 S., R. 90 W., 2 miles east of Somerset.

Drainage Area - 521 square miles. Zero of gage is 6,038.6 feet above mean sea level, datum of 1929.

Records Available - March 30, 1934 to September 30, 1946.

Maximum Discharge - Year 1945 - 3,770 second feet, May 13. Gage height 4.82 feet.

Maximum Discharge - Year 1946 - 2,330 second feet, April 25. Gage height 3.85 feet.

Accuracy - Records considered excellent except those for periods of ice effect or no gage height record, November 23-25, December 11-12, December 31, 1944 to January 5, 1945, January 9-12, 15, 23, 24, 30, 31, February 8-12, 23-25, 1945, July 6-9, November 5-30, 1945, and April 17, September 29-30, 1946, which were computed on basis of weather records, and are fair.

Diversions for irrigation above station.

MINNESOTA CREEK NEAR PAONIA, COLORADO

Location - Water stage recorder in Sec. 1, T. 14 S., R. 91 W., ½ mile downstream from East Fork and 4½ miles east of Paonia.

Drainage Area - 41.3 square miles.

Records Available - October 1, 1941 to September 30, 1946.

Maximum discharge during period 1941-1946 - 270 second feet, May 22, 1942, from rating curve extended above 150 second feet. Gage height 3.70 feet.

Maximum Discharge - Year 1945 - 207 second feet, May 13, from rating curve extended above 110 second feet. Gage height 2.66 feet.

Maximum Discharge - Year 1946 - 99 second feet, April 28. Gage height 1.99 feet.

Accuracy - Records considered good, except those for periods of no gage height record and ice effect, November 7, 8, 10, 11, 15-17, November 20 to December 2, December 4-23, 1944, January 1 to April 6, November 8-10, 14-15, 17-19, 21-29, December 3-7, 1 0-31, 1945, January 1 to February 5, February 23-24, March 1-2, 9-10, 17-18, 1946, which were computed on basis of discharge measurements and weather records.

Several small diversions for irrigation and storage above station. One small diversion from Little Gunnison Creek in Coal Creek basin to Minnesota Creek.

LEROUX CREEK NEAR CEDAREDGE, COLORADO

Location - Water stage recorder in Sec. 16, T. 13 S., R. 93 W., 200 feet upstream from headgate of Overland Ditch and 7.2 miles northeast of Cedaredge.

Drainage Area - 43.0 square miles.

Records Available - October, 1936 to September 30, 1946.

Maximum discharge during period 1936-1946 - 1,310 second feet, May 26, 1942, from rating curve extended above 650 second feet. Gage height 4.95 feet.

Maximum Discharge - Year 1945 - 785 second feet, May 27. Gage height 4.25 feet.

Maximum Discharge - Year 1946 - 245 second feet, May 5. Gage height 2.98 feet.

Accuracy - Records considered fair.

One small diversion and several small reservoirs above station for irrigation.

SURFACE CREEK NEAR CEDAREDGE, COLORADO

Location - Water stage recorder in NW¼ NW¼ Sec. 12, T. 12 S., R. 94 W., ½ mile east of highway at Buzzard Ranch, 1 mile downstream from Caesar Creek, and 8½ miles northeast of Cedaredge.

Drainage Area - 28.5 square miles.

Records Available - June 20, 1939 to September 30, 1946.

Maximum discharge during period 1939-1946 - 578 second feet, May 12, 1941, from rating curve extended above 300 second feet. Gage height 3.62 feet.

Maximum Discharge - Year 1945 - 269 second feet, May 11. Gage height 2.61 feet.

Maximum Discharge - Year 1946 - 156 second feet, April 24. Gage height 2.15 feet.

Accuracy - Records considered good except those for periods of ice effect or of no gage height record, November 14-17, 1944, May 1-9, 1945, October 16-25, 1945, and April 1-23, 1946, which were computed on basis of discharge measurements and weather records and comparison with nearby stations, and are fair.

Diversions for storage above station. Many small reservoirs regulate discharge.

SURFACE CREEK AT CEDAREDGE, COLORADO

Location - Water stage recorder and concrete control in Sec. 20, T. 13 S., R. 94 W., at Cedaredge.

Drainage Area - 43 square miles.

Records Available - May 16, 1917 to September 30, 1946.

Maximum discharge during period 1917-1946 - 1,190 second feet, May 13, 1941, from rating curve extended above 640 second feet. Gage height 2.50 feet.

Maximum Discharge - Year 1945 - 263 second feet, May 11. Gage height 1.42 feet.

Maximum Discharge - Year 1946 - 122 second feet, April 28. Gage height 1.09 feet.

Accuracy - Records considered good above 30 second feet and fair below. Periods of ice effect and no gage height record, October 20-26, November 18, 1944 to April 24, 1945, November 10, 1945 to April 14, 1946, which were computed on basis of discharge measurements and weather records, are fair.

Diversions for storage and irrigation above station. Flow regulated by numerous reservoirs. Water is diverted into Surface Creek Basin from adjacent streams.

SURFACE CREEK AT ECKERT, COLORADO

Location - Water stage recorder in SE¼ Sec. 14, T. 14 S., R. 95 W., at Ferguson Ranch 0.7 mile southwest of Eckert and 2½ miles upstream from mouth. Prior to September 25, 1946 gage maintained at site 1,000 feet upstream and at different datum.

Drainage Area - 55.2 square miles.

Records Available - April 1, 1942 to September 30, 1946.

Maximum discharge during period 1942-1946 - 466 second feet, May 15, 1944, from rating curve extended above 150 second feet. Gage height 4.06 feet.

Maximum Discharge - Year 1945 - 236 second feet, May 11. Gage height 3.29 feet.

Maximum Discharge - Year 1946 - 74 second feet, April 28. Gage height 2.31 feet.

Accuracy - Records considered fair.

TONGUE CREEK NEAR CEDAREDGE, COLORADO
(Locally Known as Dirty George Creek)

Location - Staff gage in SE¼ Sec. 15, T. 13 S., R 95 W., ½ mile downstream from Sara Creek and 4 miles southwest of Cedaredge.

Drainage Area - 11.2 square miles.

Records Available - October, 1944 to September 30, 1946 (Discontinued)

Maximum Discharge - Year 1945 - July 21, gage height 6.40 feet. Discharge not determined.

Maximum Discharge - Year 1946 - 9.5 second feet, April 18. Gage height 4.20 feet.

Accuracy - Records considered fair to poor. Staff gage read twice daily.

Diversions for storage and irrigation above station, also diversion by Town of Delta pipeline above station.

WARD CREEK NEAR CEDAREDGE, COLORADO

Location - Staff gage in NE¼ Sec. 14, T. 13 S., R. 95 W., 100 feet downstream from Sandstone Ditch diversion, 1-3/4 miles upstream from Kiser Creek, and 3½ miles northwest of Cedaredge.

Drainage Area - 19.0 square miles.

Records Available - April 1, 1942 to September 30, 1946 (Discontinued).

Maximum discharge during period 1942-1946 - 90 second feet, April 12, 1942, from rating curve extended above 30 second feet. Gage height 2.10 feet.

Maximum Discharge - Year 1945 - 70 second feet, April 22, from rating curve extended above 30 second feet. Gage height 1.56 feet.

Maximum Discharge - Year 1946 - 7.8 second feet, April 21. Gage height 0.78 feet.

Accuracy - Records considered fair. Gage read twice daily.

Many small diversions for irrigation and storage above station.

WARD CREEK BELOW KISER CREEK NEAR CEDAREDGE, COLORADO

Location - Water stage recorder in SE¼ Sec. 26, T. 13 S., R. 95 W., 1 mile downstream from Kiser Creek and 3 miles southwest of Cedaredge.

Drainage Area - 57.8 square miles.

Records Available - September, 1944 to September 30, 1946.

Maximum discharge during period 1944-1946 - 139 second feet May 11, 1945, from rating curve extended above 80 second feet. Gage height 3.34 feet.

Maximum Discharge - Year 1945 - 139 second feet, May 11, from rating curve extended above 80 second feet.

Maximum Discharge - Year 1946 - 109 second feet, July 19, from rating curve extended above 80 second feet. Gage height 3.05 feet.

Accuracy - Records considered fair.

Many small diversions for storage and irrigation above station.

KISER CREEK NEAR CEDAREDGE, COLORADO

Location - Staff gage in SE¼ Sec. 12, T. 13 S., R. 95 W., at States (Top) coal mine, 400 feet upstream from Cottonwood Creek and 3 miles northwest of Cedaredge.

Drainage Area - 12.9 square miles.

Records Available - April 1, 1942 to September 30, 1946 (Discontinued).

Maximum discharge during period 1944-1946 - 51 second feet, June 16, 1944, from rating curve extended above 3 second feet by paralleling curve defined to 40 second feet.

Maximum Discharge - Year 1945 - 30 second feet, May 3, from rating curve extended above 6 second feet. Gage height 5.94 feet.

Maximum Discharge - Year 1946 - 11 second feet, July 19. Gage height 5.60 feet.

Accuracy - Records considered poor. Gage read twice daily.

Many small diversions for irrigation and storage above station.

COTTONWOOD CREEK NEAR CEDAREDGE, COLORADO

Location - Staff gage in SE¼ Sec. 12, T. 13 S., R. 95 W., 400 feet upstream from mouth, at States coal mine and 3 miles northwest of Cedaredge.

Drainage Area - 5.0 square miles.

Records Available - April 1, 1942 to September 30, 1946 (Discontinued).

Maximum discharge during period 1942-1946 - that of July 19, 1946.

Maximum Discharge - Year 1945 - 32 second feet, February 7. Gage height 5.42 feet.

Maximum Discharge - Year 1946 - 93 second feet, July 19. Gage height 6.80 feet.

Accuracy - Records considered poor. Staff gage read twice daily.

Many small diversions for storage and irrigation above station.

YOUNGS CREEK NEAR CEDAREDGE, COLORADO

Location - Staff gage in SW¼ Sec. 18, T. 13 S., R. 94 W., 3/8 mile upstream from mouth, at K. F. Brandt Ranch, and 2 miles northwest of Cedaredge.

Drainage Area - 19 square miles.

Records Available - April 1, 1942 to September 30, 1946 (Discontinued).

Maximum discharge during period 1942-1946 - 83 second feet, May 15, 1944. Gage height 6.20 feet.

Maximum Discharge - Year 1945 - 63 second feet, May 3. Gage height 5.78 feet.

Maximum Discharge - Year 1946 - 10 second feet, May 6. Gage height 4.58 feet.

Accuracy - Records considered poor.

Diversions for irrigation above station and flow regulated by several small reservoirs.

UNCOMPAHGRE RIVER AT COLONA, COLORADO

Location - Water stage recorder in NW¼ Sec. 17, T. 47 N., R. 8 W., ¼ mile east of Colona at county bridge.

Drainage Area - 437 square miles. Zero of gage is 6,321.80 feet above mean sea level, adjustment of 1929.

Records Available - April, 1917 to September 30, 1946. From 1917 to November, 1934, at site three miles upstream. Records practically equivalent.

Maximum daily discharge during period 1917-1946 - 4,080 second feet, June 13, 14, 1921.

Maximum Discharge - Year 1945 - 1,840 second feet, June 22, from rating curve extended above 1,050 second feet. Gage height 3.44 feet.

Maximum Discharge - Year 1946 - 1,330 second feet, June 7. Gage height 2.70 feet.

Accuracy - Records considered good except those for periods of ice effect, October 1, 1944 to January 31, 1945, which were computed on basis of discharge measurements, weather records, and are fair.

Diversions for irrigation above station.

UNCOMPAHGRE RIVER AT DELTA, COLORADO

Location - Water stage recorder in NW¼ Sec. 24, T. 15 S., R. 96 W., at west edge of Delta, 1½ miles upstream from mouth.

Drainage Area - 1,110 square miles. Zero of gage is 4,929.92 feet above mean sea level, adjustment of 1929.

Records Available - April, 1903 to November, 1908, April, 1911 to 1913, 1915 to 1931, September 1, 1938 to September 30, 1946. During period 1903-1924 at site 3½ miles upstream.

Maximum discharge during period 1903-1931, 1938-1946 - 3,730 second feet, May 5, 1941, from rating curve extended above 1,900 second feet. Gage height 5.90 feet.

Maximum Discharge - Year 1945 - 1,920 second feet, May 8. Gage height 4.40 feet.

Maximum Discharge - Year 1946 - 1,430 second feet, August 24. Gage height 4.51 feet.

Accuracy - Records considered fair during 1945 and good in 1946. Automatic recorder installed April 26, 1946. During period of no gage height record, November 5-8, 10-13, 15, 16, 20-25, December 18-20, 23, 1944, January 18, 20, January 26 to February 4, February 6-8, 10-26, February 28 to March 29, 1945, May 20, July 16, 18, 19, August 26 to September 2, September 13-27, 29, 1945, discharge computed on basis of records for stations on nearby streams and are poor. During period of ice effect, December 15-17, 1945 and no gage height record, March 17-21, 23-31, April 4, 6, 16, 1946, discharge computed on basis of comparison with nearby records.

Diversions for irrigation above station.

ROUBIDEAU CREEK AT MOUTH NEAR DELTA, COLORADO

Location - Water stage recorder in Sec. 19, T. 15 S., R. 96 W., ½ mile upstream from mouth and 5 miles west of Delta.

Drainage Area - 245 square miles. Zero of gage is 4869.20 feet above mean sea level, datum of 1929.

Records Available - March 23, 1939 to September 30, 1946.

Maximum discharge during period 1939-1946 that of August 5, 1945.
Maximum Discharge - Year 1945 - 2,950 second feet, August 5, from rating curve extended above 1,300 second feet. Gage height 7.76 feet.

Maximum Discharge - Year 1946 - 966 second feet, September 15. Gage height 4.37 feet.

Accuracy - Records considered good , except those for periods of ice effect, December 13-15, 1945, January 13-15, 31, February 1, 1946, which were computed on basis of weather records, and are fair.

Diversions for irrigation above station. Part of discharge represents return flow from irrigated lands under lower Ironstone Canal.

KANNAH CREEK NEAR WHITEWATER, COLORADO

Location - Water stage recorder and concrete control in Sec. 34, T. 12 S., R. 97 W., ½ mile downstream from intake of pipeline for Grand Junction water supply and 17 miles east of Whitewater. Prior to October 14, 1935, station located at site 300 feet upstream.

Drainage Area - 55.0 square miles.

Records Available - October 15, 1917 to September 30, 1921, August 17, 1922 to September 30, 1946. Flow diverted by pipeline not included in records since 1930. Maximum discharges only are for combined flow of stream and pipeline.

Maximum discharge during period 1917-1921, 1922-1946 - 1,630 second feet, June 6, 1921, from rating curve extended above 700 second feet. Gage height 4.5 feet, site and datum then in use.

Maximum Discharge - Year 1945 - 720 second feet, May 26.

Maximum Discharge- Year 1946 - 491 second feet, May 5.

Accuracy - Records considered good except those for period of ice effect or no gage height record, November 16, 20-22, 26-December 2, December 5, 1944 to January 10, 1945, January 20 to April 15, November 7-11, 14-15, 19-28, December 2-7, December 9, 1945 to February 27, 1946, March 7-10, which were computed on basis of discharge measurements, weather records, and are fair.

Diversions for storage and domestic use above station. Flow regulated by small reservoirs above station.

Diversions above Station by Grand Junction Water Works and Haber Ditch

	Water Year 1944-1945 Acre Feet	Water Year 1945-1946 Acre Feet
October	460	410
November	297	312
December	293	295
January	285	325
February	[illegible]	325
March	302	337
April	385	490
May	708	730
June	641	610
July	553	610
August	532	578
September	561	516
Total	5,260	5,545

DOLORES RIVER AT DOLORES, COLORADO

Location - Water stage recorder in Sec. 9, T. 37 N., R. 15 W., at Dolores, 200 feet upstream from highway bridge and ½ mile upstream from Lost Canyon Creek.

Drainage Area - 556 square miles. Zero of gage is 6,924.91 feet above mean sea level, datum of 1929.

Records Available - June, 1895 to October, 1903, November, 1910 to November, 1912, April, 1922 to September 30, 1946. Prior to December 6, 1912, station maintained just downstream from Lost Canyon Creek.

Maximum discharge during period 1890-1903, 1910-1912, 1922-1946 - 10,000 second feet, October 5, 1911, from rating curve extended above 2,800 second feet. Gage height 10.20 feet, former site and datum.

Maximum Discharge - Year 1945 - 3,770 second feet, May 3. Gage height 6.03 feet.

Maximum Discharge - Year 1946 - 2,720 second feet, June 7. Gage height 5.27 feet.

Accuracy - Records considered excellent except those for periods of no gage height record and of ice effect, November 22, 1944 to March 11, 1945, December 3, 1945 to March 13, 1946, which were computed on basis of discharge measurements, records of diversions, weather records, and are fair.

Diversions for irrigation above station. Releases from Ground Hog Reservoir totaled 6,620 acre feet, July 5 to September 16, 1946.

DOLORES RIVER NEAR McPHEE, COLORADO

Location - Water stage recorder in [illegible] Sec. [illegible], T. 38 N., R. 16 W., 0.8 mile downstream from Beaver Creek and 4½ miles northwest of McPhee.

Drainage Area - 793 square miles. Zero of gage is 6,666.45 feet above mean sea level, unadjusted.

Records Available - October 1, 1938 to September 30, 1946.

Maximum discharge during period 1938-1946 - 8,650 second feet, October 13, 1941, from rating curve extended above 5,900 second feet. Gage height 7.58 feet.

Maximum Discharge - Year 1945 - 5,450 second feet, April 23. Gage height 6.09 feet.

Maximum Discharge - Year 1946 - 1,910 second feet, June 7. Gage height 3.85 feet.

Accuracy - Records considered good except those for periods of ice effect and no gage height record, October 1-28, 1944 October 30 to November 11, November 29, 1944 to March 11, 1945, October 10-17, November 16, 1945 to March 5, 1946, March 8-17, 1946, which were computed on basis of discharge measurements, weather records, and comparison with upper station, and are fair.

Diversions for irrigation above station, and three small diversions below station. Montezuma Irrigation District diverts water from basin just below station at Dolores for irrigation in Montezuma Valley.

DOLORES RIVER AT GATEWAY, COLORADO

Location - Water stage recorder in SW¼ Sec. 15, T. 51 N., R. 19 W., 0.3 mile northwest of Gateway, 0.3 mile downstream from West Creek, and 8 miles upstream from Colorado-Utah state line.

Drainage Area - 4,350 square miles. Zero of gage is 4,547.44 feet above mean sea level, unadjusted.

Records Available - March, 1937 to September 30, 1946.

Maximum discharge during per od 1937-1946 - 15,400 second feet, May 14, 1941. Gage height 11.33 feet, present site.

Maximum Discharge - Year 1945 - 10,200 second feet, May 9. Gage height 8.30 feet.

Maximum Discharge - Year 1946 - 2,510 second feet, August 12. Gage height 3.71 feet.

Accuracy - Records considered good except those for period of no gage height record, November 16 to December 7, 1944, January 13-15, 1945, April 25 to May 9, 1945, which were computed on basis of weather records and records for stations on nearby streams, and are fair.

Diversions for irrigation above station.

LOST CANYON CREEK AT DOLORES, COLORADO

Location - Water stage recorder in SE¼ Sec. 16, T. 37 N., R. 15 W., 3/4 mile upstream from mouth and 3/4 mile south of Dolores.

Drainage Area - 81.0 square miles. Zero of gage is 6,919.64 feet above mean sea level, datum of 1929.

Records Available - April 1, 1922 to September, 1927, October, 1941 to September 30, 1946.

Maximum discharge during period 1922-1927, 1941-1946 - 1,590 second feet October 14, 1941, from rating curve extended above 600 second feet. Gage height 4.97 feet.

Maximum Discharge - Year 1943 - 578 second feet April 24. Gage height 4.64 feet.

Maximum Discharge - Year 1944 - 695 second feet, May 13. Gage height 5.17 feet.

Maximum Discharge - Year 1945 - 699 second feet, May 3. Gage height 5.25 feet.

Maximum Discharge - Year 1946 - 194 second feet, April 22. Gage height 2.75 feet.

Accuracy - Records considered good except those for periods of no gage height record, which are poor.

Many diversions for storage and irrigation above station.

TWOMILE CREEK NEAR LA SAL, UTAH

Location - Water stage recorder in Sec. 24, T. 28 S., R. 25 E., just downstream from Pole Springs Canyon, 2 miles upstream from mouth, and 8½ miles northeast of La Sal.

Drainage Area - 21.9 square miles.

Records Available - August, 1944 to September 30, 1946.

Maximum discharge during period 1944-1946 - That of May 1, 1945.

Maximum Discharge - Year 1945 - 96 second feet, May 1, from rating curve extended above 57 second feet. Gage height 3.07 feet.

Maximum Discharge - Year 1946 - 6.7 second feet, April 16. Gage height 2.14 feet.

Accuracy - Records considered good except for those below 10 second feet and those for period of no gage height record, February 5, 1945 to April 30, November 16-29, December 3, December 9, 1945 to March 20, 1946, which are fair.

Diversions for irrigation above station.

WEST PARADOX CREEK NEAR PARADOX, COLORADO

Location - Water stage recorder at La Sal National Forest boundary, Sec. 30, T. 48 N., R. 19 W., 2 miles northwest of Paradox.

Records Available - August, 1944 to September 30, 1946.

Maximum discharge during period 1944-1946 - That of May 1, 1945.

Maximum Discharge - Year 1945 - 102 second feet, May 1. Gage height 3.15 feet.

Maximum Discharge - Year 1946 - 101 second feet, September 12. Gage height 3.21.

Accuracy - Records considered fair.

Diversions from Geyser and Deep Creeks in Roc Creek basin are stored in Buckeye Reservoir (capacity 3,000 acre feet) and released down West Paradox Creek for irrigation.

WEST PARADOX CREEK NEAR BEDROCK, COLORADO

Location - Water stage recorder in Sec. 16, T. 47 N., R. 18 W., ½ mile upstream from mouth and 2 miles northeast of Bedrock.

Records Available - August, 1944 to September 30, 1946.

Maximum discharge during period 1944-1946 - That of August 22, 1946.

Maximum Discharge - Year 1945 - Discharge not determined.

Maximum Discharge - Year 1946 - 258 second feet, August 22. Gage height 4.00 feet.

Accuracy - Records considered fair.

Diversions for irrigation above station use practically all of flow.

BUCKEYE RESERVOIR OUTLET NEAR PARADOX, COLORADO

Location - Water stage recorder in NW¼ Sec. 11, T. 48 N., R. 20 W., N. M. P. M. at 4-foot steel Parshall Flume, 700 feet downstream from Buckeye Dam and 6½ miles northwest of Paradox.

Drainage Area -

Records Available - September 1, 1945 to September 30, 1946.

Maximum Discharge - Year 1946 - 14 second feet.

Accuracy - Records considered fair.

Flow is all diverted water from tributaries of Roc Creek. Discharge flows in West Paradox Creek.

SAN MIGUEL RIVER NEAR PLACERVILLE, COLORADO

Location - Water stage recorder in SE¼ Sec. 30, T. 44 N., R. 11 W., 100 feet downstream from Specie Creek and 3 miles northwest of Placerville.

Drainage Area - 308 square miles.

Records Available - January to September, 1909 at Saltado Ranch 3 miles downstream; October, 1909 to November, 1912 at site 2⅔ miles upstream; April, 1930 to September, 1934, above Specie Creek; and March, 1942 to September 30, 1946.

Maximum discharge during period, 10,000 second feet, September 5, 1909 (Trout and Park Lake dam failures).

Maximum Discharge - Year 1945 - 1,210 second feet, June 14. Gage height 2.92 feet.

Maximum Discharge - Year 1946 - 1,220 second feet, June 11. Gage height 2.93 feet.

Accuracy - Records considered excellent above 300 second feet and good below, except those for period of no gage height record, December 30, 1944 to January 28, 1945, December 11-13, 17, 18, 20, 24, 28, 29, January 8, 9, 11, 12, 15-20, 22-26, 28-31, 1946, February 1-8, 10, 12-17, which were computed on basis of weather records, and are fair.

Diversions for irrigation above station. Flow slightly regulated by reservoirs of Western Colorado Power Company, Lake Hope, and Trout Lake, combined capacity of 5,040 acre feet, which release flow during winter.

SAN MIGUEL RIVER AT NATURITA, COLORADO

Location - Water stage recorder in SE¼ SW¼ Sec. 19, T. 46 N., R. 15 W., at highway bridge in Naturita, 1.2 miles downstream from Naturita Creek.

Drainage Area - 1,080 square miles. Zero of gage is 5,392.85 feet above mean sea level, datum of 1929.

Records Available - October, 1917 to September, 1929; October, 1940 to September 30, 1946.

Maximum discharge during period 1917-1929, 1940-1946 - 7,100 second feet, April 15, 1942, from rating curve extended above 3,800 second feet. Gage height 9.80 feet.

Maximum Discharge - Year 1945 - 4,530 second feet, May 4, from rating curve extended above 3,800 second feet. Gage height 7.68 feet.

Maximum Discharge - Year 1946 - 1,550 second feet, August 24. Gage height 4.50 feet.

Accuracy - Records considered good except those for periods of ice effect or no gage-height record, November 24, 1944 to December 3, December 10, 1944 to January 29, 1945, December 6, 1945 to February 28, 1946, which were computed on basis of discharge measurements, weather records, and comparison with upper station records.

Diversions for irrigation above station.

FALL CREEK NEAR FALL CREEK, COLORADO

Location - Water stage recorder in Sec. 24, T. 43 N., R. 11 W., 2.7 miles upstream from mouth and 2.8 miles south of Fall Creek.

Drainage Area - 33.5 square miles.

Records Available - October, 1942 to September 30, 1946.

Maximum discharge during period 1942-1946 - 476 second feet, May 14, 1944, from rating curve extended above 150 second feet, Gage height 2.36 feet, from flood marks.

Maximum Discharge - Year 1945 - 123 second feet, June 15. Gage height 1.18 feet.

Maximum Discharge - Year 1946 - 128 second feet, June 6. Gage height 1.18 feet.

Accuracy - Records considered good above 10 second feet and fair below.

No diversion or regulation above station.

BEAVER CREEK NEAR NORWOOD, COLORADO

Location - Water stage recorder in Sec. 28, T. 43 N., R. 12 W., (Revised) 500 feet upstream from Goat Creek and 16 miles southeast of Norwood.

Drainage Area - 35.2 square miles (Revised).

Records Available - October, 1942 to September 30, 1946.

Maximum discharge during period 1942-1946 - 576 second feet, May 23, 1944, from rating curve extended above 36 second feet. Gage height 2.76 feet.

Maximum Discharge - Year 1945 - 356 second feet, May 10. Gage height 2.13 feet.

Maximum Discharge - Year 1946 - 195 second feet, April 21. Gage height 1.54 feet.

Accuracy - Records considered fair.

One large diversion for irrigation above station.

HORSEFLY CREEK NEAR SAMS, COLORADO

Location - Water stage recorder in NW¼ Sec. 35, T. 46 N., R. 11 W., at boundary of Uncompahgre National Forest and 8 miles northwest of Sams.

Drainage Area - 23.3 square miles.

Records Available - May, 1942 to September 30, 1946.

Maximum discharge during period 1942-1946 - That of May 12, 1944.

Maximum Discharge - Year 1942 - 49 second feet, May 27. Gage height 2.34 feet.

Maximum Discharge - Year 1943 - 278 second feet, April 18. Gage height 3.95 feet.

Maximum Discharge - Year 1944 - 1,030 second feet, May 12, from rating curve extended above 500 second feet.

Maximum Discharge - Year 1945 - 980 second feet, May 2, from rating curve extended above 500 second feet.

Maximum Discharge - Year 1946 - 319 second feet, April 14, Gage height 4.18 feet.

Accuracy - Records considered good above 20 second feet and fair below, except those for period of no gage height record, which are poor.

A few small diversions for irrigation above station.

COTTONWOOD CREEK NEAR NUCLA, COLORADO

Location - Water stage recorder in Sec. 1, T. 46 N., R. 14 W., ⅛ mile upstream from North Fork and 10 miles east of Nucla.

Drainage Area - 43 square miles.

Records Available - May 6, 1942 to September 30, 1946.

Maximum discharge during period 1942-1946 - That of May 1, 1945.

Maximum Discharge - Year 1945 - 276 second feet, May 1, from rating curve extended above 130 second feet. Gage height 4.48 feet.

Maximum Discharge - Year 1946 - 169 second feet, August 23, from rating curve extended above 130 second feet. Gage height 3.60 feet.

Accuracy - Records considered fair.

Several small diversions for irrigation above station.

NATURITA CREEK NEAR NORWOOD, COLORADO

Location - Water stage recorder in SE¼ Sec. 20, T. 43 N., R. 13 W., 500 feet downstream from East Fork at Miramonte dam site, and 11 miles south of Norwood.

Drainage Area - 27.7 square miles.

Records Available - October 1, 1942 to September 30, 1946.

Maximum discharge during period 1942-1946 - That of July 24, 1945. 307 second feet. Gage height 3.81 feet.

Maximum Discharge - Year 1945 - 943 second feet, July 24, from rating curve extended above 850 second feet, on basis of slope area determination. Gage height 5.19 feet.

Maximum Discharge - Year 1946 - 727 second feet, August 22. Gage height 4.39 feet.

Accuracy - Records considered fair.

Diversions for irrigation above station.

TABEGUACHE CREEK NEAR NUCLA, COLORADO

Location - Water stage recorder in SE¼ Sec. 31, T. 48 N., R. 13 W., 50 feet downstream from bridge on Columbine Pass road and 13 miles northeast of Nucla.

Drainage Area - 20.7 square miles.

Records Available - April 14 to September 30, 1946.

Maximum Discharge - Year 1946 - 114 second feet May 5, from rating curve extended above 48 second feet. Gage height 2.90 feet.

Accuracy - Records considered fair.

Diversions for storage and irrigation above station and there is one diversion to another stream basin for irrigation.

ROC CREEK NEAR URANIUM, COLORADO

Location - Water stage recorder in NE¼ Sec. 11, T. 48 N., R. 19 W., N.M.P.M. at La Sal National Forest boundary 1 mile west of Uranium. Station 4½ miles upstream from mouth.

Drainage Area - 69.5 square miles.

Records Available - August, 1944 to September 30, 1946.

Maximum discharge during period 1944-1946 - That of August 6, 1945.

Maximum Discharge - Year 1945 - 146 second feet, August 6, from rating curve extended above 40 second feet. Gage height 4.69 feet.

Maximum Discharge - Year 1946 - 102 second feet, May 10, from rating curve extended above 40 second feet. Gage height 4.24 feet.

Accuracy - Records considered fair.

Two small diversions for irrigation above station. Most of flow of Geyser and Deep Creeks in Roc Creek Basin diverted to Buckeye Reservoir in West Paradox Basin.

GEYSER CREEK NEAR PARADOX, COLORADO

Location - Water stage recorder and wharp crested weir in NE¼ Sec. 15, T. 27 S., R. 25 E., in Utah at spillway of abandoned Geyser Creek Reservoir, 11 miles northwest of Paradox.

Records Available - August 18, 1944 to September 30, 1946.

No flow from August 18, 1944 to September 30, 1946. Flow diverted just above station to Buckeye Reservoir.

DEEP CREEK NEAR PARADOX, COLORADO

Location - Water stage recorder in NE¼ Sec. 3, T. 27 S., R. 25 E., in Utah, ½ mile downstream from diversion to Buckeye Reservoir and 13 miles northwest of Paradox.

Records Available - August, 1944 to September 30, 1946.

Maximum discharge during period 1944-1946 - That of May 3, 1945.

Maximum Discharge - Year 1945 - 5.3 second feet, May 3. Gage height 1.26 feet.

Maximum Discharge - Year 1946 - 4.6 second feet, May 4. Gage height 1.17 feet.

Accuracy - Records considered fair.

Most of flow diverted to West Paradox Creek at point ½ mile above station.

TAYLOR CREEK AT PACE RANCH NEAR GATEWAY, COLORADO

Location - Water stage recorder in Sec. 14, T. 26 S., R. 25 E., at Pace Ranch in Sallie's Hollow, about ½ mile downstream from mouth of South Taylor Creek and 12 miles southwest of Gateway.

~~Drainage Area~~

Records Available - October 1, 1944 to September 30, 1946.

Maximum Discharge - Year 1945 - 413 second feet, August 6, from rating curve extended above 26 second feet. Gage height 5.42 feet.

Maximum Discharge - Year 1946 - 40 second feet, April 15. Gage height 1.25 feet.

Accuracy - Records considered good except those during period of no gage height record, which are fair.

No diversions above station.

YAMPA & GREEN RIVER BASIN

GREEN RIVER BASIN

GREEN RIVER NEAR LINWOOD, UTAH

Location - Water stage recorder in SW¼ Sec. 29, T. 3 N., R. 21 E., ¼ mile upstream from Henrys Fork, 2 miles south of Wyoming-Utah State line, and 5 miles southeast of Linwood.

Drainage Area - 14,300 square miles. Zero of gage is 5,844.64 feet above mean sea level, unadjusted.

Records Available - October, 1928 to September 30, 1946.

Maximum discharge during period 1928-1946 - 15,400 second feet, April 3, 1944. Gage height 9.84 feet.

Maximum Discharge - Year 1945 - 9,740 second feet, June 27. Gage height 7.56 feet.

Maximum Discharge - Year 1946 - 9,360 second feet, June 21. Gage height 7.40 feet.

Accuracy - Records considered good except those for periods of ice effect or no gage-height record, November 18, 1944 to March 19, 1945, November 9, 1945 to March 12, 1946, which were computed on basis of discharge measurement and weather records, and are fair.

Diversions for irrigation above station.

YAMPA RIVER AT STEAMBOAT SPRINGS, COLORADO

Location - Water stage recorder in Sec. 17, T. 6 N., R. 84 W., at First Street Bridge in Steamboat Springs, ¼ mile upstream from Soda Creek.

Drainage Area - 604 square miles. Zero of gage is 6,696.23 feet above mean sea level, adjustment of 1912.

Records Available - May 3, 1904 to October 31, 1906, March 1, 1910 to September 30, 1946.

Maximum discharge during period 1904-1906, 1910-1946 - 6,820 second feet, June 14, 1921. Gage height 7.08 feet.

Maximum Discharge - Year 1945 - 2,830 second feet, June 6. Gage height 4.86 feet.

Maximum Discharge - Year 1946 - 3,190 second feet, June 7. Gage height 4.92 feet.

Accuracy - Records considered excellent except those during periods of ice effect and no gage-height record, December 10-18, 1944, December 24, 1944 to January 15, 1945, January 22-23, 26, 28, 30, February 16, 17, 21, 22, 26-28, August 12 to September 16, 27, 28, October 27-30, 1945, November 9, 1945 to February 19, 1946, which were computed on basis of discharge measurement, weather records, and are fair.

Diversions for irrigation above station.

YAMPA RIVER NEAR MAYBELL, COLORADO

Location - Water stage recorder in Sec. 2, T. 6 N., R. 95 W., at highway bridge 3 miles east of Maybell.

Drainage Area - 3,410 square miles. Zero of gage is 5,900.23 feet above mean sea level, datum of 1929.

Records Available - April, 1904 to October, 1905, June, 1910 to November, 1912, April 24, 1916 to September 30, 1946.

Maximum discharge during period 1904-1905, 1910-1912, 1916-1946 - 17,900 second feet May 19, 1917, from rating curve extended above 12,000 second feet. Gage height 10.4 feet, site and datum then in use, from flood marks.

Maximum Discharge - Year 1945 - 10,900 second feet, May 13. Gage height 8.20 feet.

Maximum Discharge - Year 1946 - 6,850 second feet, April 29. Gage height 6.41 feet.

Accuracy - Records considered excellent above 60 second feet and good below, except those for periods of ice effect or no gage-height record, December 1, 1944 to March 16, 1945, November 6, 1945 to March 15, 1946, which were computed on basis of discharge measurements and weather records, and are fair. Diversions for irrigation above station.

ELK RIVER AT CLARK, COLORADO

Location - Water stage recorder in Sec. 28, T. 9 N., R. 85 W., at Clark, 1 mile upstream from Cottonwood Gulch.

Drainage Area - 206 square miles. Zero of gage is 7,267.75 feet above mean sea level (state highway bench mark).

Records Available - May 1, 1910 to September 30, 1922, April 23, 1930 to September 30, 1946.

Maximum discharge during period 1910-1922, 1930-1946 - daily discharge 4,470 second feet, June 6, 9, 1912.

Maximum Discharge - Year 1945 - 2,860 second feet, June 5, from rating curve extended above 2,200 second feet. Gage height 4.81 feet.

Maximum Discharge - Year 1946 - 2,300 second feet, June 6. Gage height 4.28 feet.

Accuracy - Records considered good except those during periods of no gage-height and ice effect, December 7, 1944 to March 1, 1945, November 14, 1945 to January 9, 1946, February 16-22, August 20 to September 15, 1946, which were computed on basis of discharge measurements and weather records, and are fair.

Practically no diversions above station.

FORTIFICATION CREEK AT CRAIG, COLORADO

Location - Water stage recorder in SE¼ Sec. 31, T. 7 N., R. 90 W., at highway bridge at east edge of Craig, and 1 mile upstream from mouth.

Drainage Area - 258 square miles. Zero of gage is 6,178.24 feet above mean sea level, 1929 adjustment.

Records Available - June, 1905 to July, 1906, October, 1909 to September, 1918, September 1, 1943 to September 30, 1946.

Maximum discharge during period 1905-1906, 1909-1918, 1943-1946 - maximum daily discharge 750 second feet, March 27, 1914.

Maximum Discharge - Year 1945 - 722 second feet, May 7. Gage height 9.15 feet.

Maximum Discharge - Year 1946 - 333 second feet, April 26. Gage height 6.78 feet.

Accuracy - Records considered good except those for periods of ice effect or no gage-height record, January 11, 1945 to February 10, 1945, February 16 to March 10, March 19-21, April 5, November 7, 1945 to April 11, 1946, which were computed on basis of discharge measurements, weather records, and are poor.

Diversions for irrigation above station.

EAST FORK OF WILLIAMS FORK NEAR WILLOW CREEK, COLORADO

Location - Water stage recorder in NW¼ Sec. 22, T. 3 N., R. 88 W., 0.6 mile downstream from Poose Creek and 7 miles southeast of Willow Creek store.

Drainage Area - 96 square miles.

Records Available - September 1, 1943 to September 30, 1946.

Maximum discharge during period 1943-1946 - 895 second feet, May 23, 1944, from rating curve extended above 400 second feet. Gage height 2.82 feet.

Maximum Discharge - Year 1945 - 668 second feet, May 11, from rating curve extended above 300 second feet. Gage height 2.53 feet.

Maximum Discharge - Year 1946 - 635 second feet, June 7, from rating table extended above 300 second feet. Gage height 2.40 feet.

Accuracy - Records considered good except those for periods of ice effect or no gage-height record, October 8-17, November 6, 1944 to April 22, 1945, which were computed on basis of discharge measurements and weather records, and are fair.

Practically no diversions above station.

LITTLE SNAKE RIVER NEAR SLATER, COLORADO

Location - Water stage recorder in SW¼ Sec. 16, T. 12 N., R. 87 W., at Focus (Temple) Ranch ½ mile downstream from Willow Creek and 11 miles east of Slater.

Drainage Area - 285 square miles. Zero of gage is 6,829.57 feet above mean sea level, unadjusted.

Records Available - October 1, 1942 to September 30, 1946.

Maximum discharge during period 1942-1946 - 3,140 second feet, June 1, 1943, from rating curve extended above 1,400 second feet.

Maximum Discharge - Year 1945 - 2,620 second feet, June 5, from rating curve extended above 1,400 second feet. Gage height 7.78 feet.

Maximum Discharge - Year 1946 - 1,540 second feet, April 27. Gage height 6.81 feet.

Accuracy - Records considered excellent except those for periods of ice effect or no gage-height records, October 1-15, November 15-17, November 25, 1944 to April 6, 1945, November 9-14, November 19, 1945 to March 23, 1946, which were computed on basis of discharge measurements, and weather records, and are fair.

Diversions for irrigation above station.

LITTLE SNAKE RIVER NEAR DIXON, WYOMING

Location - Water stage recorder in Sec. 6, T. 12 N., R. 90 W., 600 feet upstream from Willow Creek and 1 mile west of Dixon.

Drainage Area - 988 square miles. Zero of gage is 6,332.81 feet above mean sea level, unadjusted.

Records Available - May, 1910 to September, 1923, March, 1938 to September 30, 1946.

Maximum discharge during period 1910-1923, 1938-1946 - 8,960 second feet, May 23, 1920, from rating curve extended above 6,000 second feet. Gage height 8.3 feet, datum then in use.

Maximum Discharge - Year 1945 - 4,980 second feet, May 12. Gage height 6.56 feet.

Maximum Discharge - Year 1946 - 3,060 second feet, April 27. Gage height 5.29 feet.

Accuracy - Records considered good except those for periods of ice effect, November 19-23, 25-28, December 6, 1944 to March 20, 1945, November 20, 1945 to March 17, 1946, which were computed on basis of discharge measurements and weather records, and are fair.

Diversions for irrigation above station.

LITTLE SNAKE RIVER NEAR LILY, COLORADO

Location - Water stage recorder in Sec. 20, T. 7 N., R. 98 W., 6 miles north of Lily at highway bridge and 10 miles upstream from mouth.

Drainage Area - 3,730 square miles.

Records Available - June to August, 1904, May 1, 1922 to September 30, 1946.

Maximum discharge during period 1904, 1922-1946 - 14,200 second feet, May 27, 1926, from rating curve extended above 3,600 second feet. Gage height 10.5 feet.

Maximum Discharge - Year 1945 - 5,680 second feet, June 7. Gage height 6.05 feet.

Maximum Discharge - Year 1946 - 3,310 second feet, May 1. Gage height 4.22 feet.

Accuracy - Records considered good except those during periods of ice effect or no gage-height record, November 28, 1944 to April 19, 1945 and November 22, 1945 to March 12, 1946, which were computed on basis of discharge measurements, weather records, and are fair.

Diversions for irrigation above station.

BATTLE CREEK NEAR SLATER, COLORADO

Location - Water stage recorder in NW¼ Sec. 14, T. 12 N., R. 88 W., (Colo.) at Colorado-Wyoming state line, ¼ mile upstream from mouth and 7 miles east of Slater.

Drainage Area - 85.3 square miles. Zero of gage is 6,696.10 feet above mean sea level, adjustment of 1912 (Prior to October 1, 1944 at datum 1 foot higher).

Records Available - October 1, 1942 to September 30, 1946.

Maximum discharge during period 1942-1946 - 967 second feet, June 1, 1943, from rating curve extended above 600 second feet. Gage height 5.64 feet.

Maximum Discharge - Year 1945 - 844 second feet, May 12, from rating curve extended above 400 second feet. Gage height 3.97 feet.

Maximum Discharge - Year 1946 - 717 second feet, June 6. Gage height 3.14 feet.

Accuracy - Records considered good except those for periods of ice effect or no gage-height record, October 21-November 5, November 17, 1944 to March 24, 1945, August 23 to November 14, 1945, December 3, 4, December 8, 1945 to April 4, 1946, which are fair.

Diversions for irrigation above station.

SLATER FORK NEAR SLATER, COLORADO

Location - Water stage recorder in SW¼ Sec. 21, T. 12 N., R. 89 W., 1 mile upstream from mouth and 1½ miles south of Slater.

Drainage Area - 161 square miles.

Records Available - May, 1910 to May, 1912, June, 1931 to September 30, 1946.

Maximum discharge during period 1910-1912, 1931-1946 - 1,700 second feet May 19, 1912. (Daily discharge).

Maximum Discharge - Year 1945 - 1,190 second feet, May 12, from rating curve extended above 800 second feet. Gage height 8.52 feet.

Maximum Discharge - Year 1946 - 620 second feet, April 27. Gage height 6.15 feet.

Accuracy - Records considered good above 100 second feet and fair below. Periods of ice effect or no gage-height record, December 7-12, December 26, 1944 to January 20, 1945, January 28 to March 10, and December 17, 1945 to March 14, 1946 were computed on basis of discharge measurements and weather records.

Diversions for irrigation above station.

SAVERY CREEK NEAR SAVERY, WYOMING

Location - Water stage recorder in SW¼ Sec. 14, T. 13 N., R. 89 W., 1¼ miles downstream from Loco Creek and 6½ miles northeast of Savery.

Drainage Area - 330 square miles.

Records Available - October, 1941 to September 30, 1946.

Maximum discharge during period 1943-1946 - 1,490 second feet, May 22, 1944, from rating curve extended above 850 second feet. Gage height 6.12 feet.

Maximum Discharge - Year 1945 - 1,380 second feet, May 11, from rating curve extended above 850 second feet. Gage height 6.14 feet.

Maximum Discharge - Year 1946 - 706 second feet, April 17. Gage height 4.69 feet.

Accuracy - Records considered good except those for periods of ice effect or no gage-height record, October 1-14, November 20, 21, 26, 29, December 8-10, December 14, 1944 to January 19, 1945, January 19 to April 6, and November 8-10, 14, 21-25, December 2-4, December 10, 1945 to March 31, 1946, which were computed on basis of discharge measurements, weather records, and are fair.

Diversions for irrigation above station.

WHITE RIVER NEAR MEEKER, COLORADO

Location - Water stage recorder in Sec. 30, T. 1 N., R. 93 W., 1 mile upstream from Curtis Creek and 3½ miles east of Meeker, at Russell Ranch bridge.

Drainage Area - 762 square miles.

Records Available - May, 1901 to October, 1906, May, 1910 to September 30, 1946. Station maintained 2½ miles downstream prior to October, 1913.

Maximum discharge during period 1901-1906, 1910-1946, 6,070 second feet, June 16, 1921.

Maximum Discharge - Year 1945 - 3,070 second feet, June 26. Gage height 3.58 feet.

Maximum Discharge - Year 1946 - 2,400 second feet, June 11. Gage height 3.30 feet.

Accuracy - Records considered excellent except those during periods of ice effect or no gage-height record, February 1 to April 20, 1945, November 21, 1945 to January 20, 1946, January 29 to March 12, 1946, which were computed on basis of weather records, and are fair.

Diversions for irrigation above station.

WHITE RIVER NEAR WATSON, UTAH

Location - Water stage recorder in Sec. 2, T. 10 S., R. 24 E., Salt Lake Meridian, just downstream from Evacuation Creek, and 7 miles north of Watson.

Drainage Area - 4,020 square miles. Zero of gage is 4,949.78 feet above mean sea level, datum of 1929.

Records Available - April 1 to October 31, 1906, April 1, 1923 to September 30, 1946.

Maximum daily discharge during period 1906, 1923-1946 - 8,160 second feet, July 15, 1929.

Maximum Discharge - Year 1945 - 2,820 second feet, May 13. Gage height 3.40 feet.

Maximum Discharge - Year 1946 - 3,650 second feet, August 13. Gage height 4.01 feet.

Accuracy - Records considered good except those for periods of ice effect and no gage-height record, December 10, 1944 to February 15, 1945 and November 23-25, December 17, 1945 to March 5, 1946, which were computed on basis of discharge measurements and weather records, and are fair.

Diversion for irrigation above station.

SOUTH FORK WHITE RIVER NEAR BUFORD, COLORADO

Location - Water stage recorder in SE¼ Sec. 36, T. 1 S., R. 91 W., 50 feet upstream from Peltier Creek, 100 feet upstream from highway bridge and 6 miles southeast of Buford.

Drainage Area - 156 square miles.

Records Available - July, 1903 to October, 1906, June, 1910 to November, 1915, October, 1942 to September 30, 1946. During period July, 1919 to November, 1920, at site 5 miles downstream, records not equivalent.

Maximum discharge during period 1903-1906, 1910, 1915, 1942-1946 - 3,230 second feet, from rating curve extended above 1,600 second feet, June 17, 1906. Gage height 8.2 feet, site and datum then in use.

Maximum Discharge - Year 1945 - 2,240 second feet, June 25, from rating curve extended above 1,350 second feet. Gage height 5.60 feet.

Maximum Discharge - Year 1946 - 1,800 second feet, June 8. Gage height 5.06 feet.

Accuracy - Records considered good except those for periods of ice effect or no gage-height record, October 1-11, November 17-28, December 3, 1944 to April 21, 1945, September 8-25, November 9-12, 17, 19, 21-22, December 4, and December 7, 1945 to February 22, 1946, February 27-28, March 1-2, 9-10, 1946, which were computed on basis of discharge measurements, weather reports, and are fair.

No diversions above station.

SAN JUAN RIVER BASIN.

SAN JUAN RIVER BASIN

SAN JUAN RIVER NEAR PAGOSA SPRINGS, COLORADO

Location - Water stage recorder in SE¼ Sec. 12, T. 36 N., R. 1 W., ¼ mile upstream from private highway bridge, ½ mile upstream from West Fork of San Juan River, and 9½ miles northeast of Pagosa Springs.

Drainage Area - 86.9 square miles. Zero of gage is 7,597.63 feet above mean sea level, datum of 1929.

Records Available - May, 1935 to September 30, 1946.

Maximum discharge during period 1 935-1946 - 2,070 second feet, May 12, 1941, from rating curve extended above 1,300 second feet. Gage height 4.84 feet. Greatest known flood occurred October 5, 1911 (Discharge not determined).

Maximum Discharge - Year 1945 - 1,130 second feet, June 14. Gage height 3.83 feet.

Maximum Discharge - Year 1946 - 590 second feet, June 7. Gage height 2.90 feet.

Accuracy - Records considered good. Ice effect periods occurred November 14-16, November 21, 1944 to January 16, 1945, January 22-24, 29-31, February 7, 8, 23, March 6-13, 21, November 10-11, 1945, Nov. 14-15, November 18, 1945 to March 13, 1946. Discharges computed on basis of discharge measurements and weather records, and are fair.

Diversions for irrigation above station.

SAN JUAN RIVER AT PAGOSA SPRINGS, COLORADO

Location - Water stage recorder in S½ Sec. 13, T. 35 N., R. 2 W., under lower highway bridge at Pagosa Springs.

Drainage Area - 298 square miles. Zero of gage is 7,052.04 feet above mean sea level, datum of 1929.

Records Available - January, 1911 to November, 1914, May, 1935 to September 30, 1946.

Maximum discharge during period 1911-1914, 1935-1946 - 5,790 second feet, May 13, 1941, from rating curve extended above 4,500 second feet. Gage height 7.92 feet. Maximum stage known, 17.8 feet, October 5, 1911, discharge about 25,000 second feet.

Maximum Discharge - Year 1945 - 2,750 second feet, May 28. Gage height 5.98 feet.

Maximum Discharge - Year 1944 - 1,500 second feet, June 4. Gage height 5.12 feet.

Accuracy - Records considered excellent, except those from November 4, 1944 to April 30, 1945 and those for January 13-17, 28-31, 1946, which are good.

Diversions for irrigation above station.

SAN JUAN RIVER AT ROSA, NEW MEXICO

Location - Water stage recorder in Sec. 20, T. 32 N., R. 5 W., 75 feet upstream from highway bridge, ½ mile downstream from Piedra River, and 1 mile north of Rosa. From 1895 to 1899, and August 21, 1910 to September 30, 1920, a station was maintained at Arboles. For this period, the San Juan River at Arboles plus the Piedra River at Arboles, gives the total flow of the San Juan at Rosa.

Drainage Area - 1,990 square miles.

Records Available - October 1, 1920 to September 30, 1946.

Maximum discharge during period 1930-1946 - 17,200 second feet, April 23, 1942, from rating curve extended above 10,200 second feet, by logarithmic plotting. Gage height 8.50 feet. Maximum flood known occurred October 5, 1911.

Maximum Discharge - Year 1945 - 6,480 second feet, May 4. Gage height 5.78 feet.

Maximum Discharge - Year 1946 - 3,360 second feet, June 6. Gage height 4.38 feet.

Accuracy - Records considered good except those for periods of ice effect, December 7-10, 13-22, December 28, 1944 to January 1, 1945, January 3 to February 1, February 3-7, November 22-26, December 4, 1945 to February 24, 1946, which were computed on basis of weather records, discharge measurements, and are fair.

Diversions for irrigation above station.

WEST FORK OF SAN JUAN RIVER ABOVE BORNS LAKE NEAR PAGOSA SPRINGS, COLORADO

Location - Water stage recorder in Sec. 36, T. 38 N., R. 1 W., ½ mile downstream from Beaver Creek, 1½ miles upstream from Borns Lake, and 16 miles northeast of Pagosa Springs.

Drainage Area - 41.2 square miles. Zero of gage is 7,605.57 feet above mean sea level, datum of 1929.

Records Available - April, 1937 to September 30, 1946.

Maximum discharge during period 1937-1946 - 1,100 second feet, June 3, 1938, from rating curve extended above 600 second feet, Gage height 4.43 feet. Maximum known flood occurred October 5, 1911. Discharge undetermined.

Maximum Discharge - Year 1945 - 662 second feet, June 14. Gage height 3.96 feet.

Maximum Discharge - Year 1946 - 655 second feet, June 4. Gage height 4.01 feet.

Accuracy - Records considered good except those above 25 second feet and for periods of no gage height record or ice effect, November 10-11, 1944, November 20-29, January 18-26, 1945, November 9-10, 21-22, December 1, 1945 to April 17, 1946, which were computed on basis of discharge measurements and weather records and are fair.

No diversions or regulations above station.

WEST FORK OF SAN JUAN RIVER NEAR PAGOSA SPRINGS, COLORADO

Location - Water stage recorder in the NE¼ Sec. 12, T. 36 N., R. 1 W., 30 feet downstream from highway bridge, 0.6 of a mile upstream from the mouth, and 10 miles northeast of Pagosa Springs.

Drainage Area - 87.9 square miles. Zero of gage is 7605.57 feet above mean sea level, adjustment of 1929.

Records Available - April 26, 1935 to September 30, 1946.

Maximum discharge during period 1935-1946 - 2,300 second feet, June 23, 1941, from rating curve extended above 1,300 second feet. Gage height 5.83 feet.

Maximum Discharge - Year 1945 - 1,280 second feet, June 14. Gage height 3.95 feet.

Maximum Discharge - Year 1946 - 901 second feet, June 5. Gage height 3.28 feet.

Accuracy - Records considered good except those for period of no gage height record and of ice effect, October 1, 4-15, October 21 to November 3, November 20, 1944 to April 19, 1945, November 21, 1945 to March 26, 1946, which were computed on basis of discharge measurements and weather records, and are fair.

Diversions for irrigation above station.

TURKEY CREEK NEAR PAGOSA SPRINGS, COLORADO

Location - Water stage recorder at west side of Sec. 10, T. 36 N., R. 1 W., 2½ miles upstream from mouth and 8 miles northeast of Pagosa Springs.

Drainage Area - 23.0 square miles.

Records Available - May 1, 1937 to September 30, 1946.

Maximum discharge during period 1937-1946 - 860 second feet, May 12, 1941, from rating curve extended above 550 second feet. Gage height 3.73 feet.

Maximum Discharge - Year 1945 - 262 second feet, May 27. Gage height 2.33 feet.

Maximum Discharge - Year 1946 - 157 second feet, June 5. Gage height 2.09 feet.

Accuracy - Records considered good except those for periods of ice effect or no gage height record, November 8, 1944 to April 28, 1945, November 21-22, 27-29, December 2, 1945 to March 26, 1946, April 11-17, which were computed on basis of discharge measurements, weather records, comparison of records of nearby stations, and are fair.

Diversions for irrigation above station. Most of water is diverted from drainage basin above station during the irrigation season.

RIO BLANCO NEAR PAGOSA SPRINGS, COLORADO

Location - Water stage recorder in center of Sec. 1, T. 34 N., R. 1 E., at highway bridge 0.4 mile upstream from White Creek and 12½ miles southeast of Pagosa Springs.

Drainage Area - 58.0 square miles.

Records Available - May 24, 1935 to September 30, 1946.

Maximum discharge during period 1935-1946 - 1,490 second feet, October 12, 1941, from rating curve extended above 450 second feet. Gage height 3.32 feet.

Maximum Discharge - Year 1944 - 906 second feet, May 23, from rating curve extended above 460 second feet. Gage height 3.92 feet.

Maximum Discharge- Year 1945 - 886 second feet, May 27, from rating curve extended above 470 second feet. Gage height 3.60 feet.

Maximum Discharge - Year 1946 - 772 second feet, September 18, from rating curve extended above 470 square feet. Gage height 3.35 feet.

Accuracy - Records considered fair. During periods of no gage height record and ice effect period, records are poor.

Diversions for irrigation above station.

RITO BLANCO NEAR PAGOSA SPRINGS, COLORADO

Location - Water stage recorder in SW¼ Sec. 12, T. 34 N., R. 1 W., at road crossing 600 feet upstream from Sheep Cabin Creek, and 7-3/4 miles southeast of Pagosa Springs.

Drainage Area - 23.3 square miles.

Records Available - May 1, 1935 to September 30, 1946.

Maximum discharge during period 1935-1946 - 475 second feet, May 13, 1941 from rating curve extended above 350 second feet. Gage height 3.21 feet, site and datum then in use.

Maximum Discharge - Year 1945 - 232 second feet, May 4. Gage height 2.63 feet.

Maximum Discharge - Year 1946 - 59 second feet, April 21. Gage height 1.98 feet.

Accuracy - Records considered poor.

Diversions for irrigation above station.

NAVAJO RIVER AT BANDED PEAK RANCH NEAR CHROMO, COLORADO

Location - Water stage recorder in NW¼ Sec. 24, T. 33 N., R. 2 E., on Banded Peak Ranch ½ mile downstream from Aspen Creek, and 9 miles northeast of Chromo.

Drainage Area - 69.8 square miles.

Records Available - April 1, 1937 to September 30, 1946.

Maximum discharge during period 1937-1946 - 1,340 second feet, May 13, 1941. Gage height 4.02 feet.

Maximum Discharge - Year 1945 - 665 second feet, June 13. Gage height 2.60 feet.

Maximum Discharge - Year 1946 - 530 second feet, June 5. Gage height 2.50 feet.

Accuracy - Records considered good except those for periods of ice effect or no gage height record, November 15, 1944 to November 23, November 29, 1944 to May 3, 1945, November 4, 1945 to March 27, 1946, which were computed on basis of discharge measurements, weather records, and records for nearby stations, and are fair.

No diversions or regulations above station.

NAVAJO RIVER AT EDITH, COLORADO

Location - Water stage recorder in NW¼ Sec. 24, T. 32 N., R. 1 W., 340 feet downstream from highway bridge at Colorado-New Mexico State line, ½ mile east of Edith, and 1 mile upstream from Coyote Creek.

Drainage Area - 165 square miles. Zero of gage is 7,033.00 feet above mean sea level (Bureau of Reclamation bench mark).

Records Available - September, 1912 to December, 1928, June, 1935 to September 30, 1946.

Maximum discharge during period 1935-1946 - 2,840 second feet, April 23, 1942, from rating curve extended above 1,100 second feet. Gage height 6.55 feet.

Maximum Discharge - Year 1945 - 1,150 second feet, May 5. Gage height 4.77 feet.

Maximum Discharge - Year 1946 - 585 second feet, June 6. Gage height 4.05 feet.

Accuracy - Records considered good except those for periods of ice effect or no gage height record, November 22, 1944 to March 10, 1945 and November 9-11, November 21, 1945 to March 17, 1946, which were computed on basis of discharge measurements, weather records, and are fair.

Diversions for irrigation above station.

LITTLE NAVAJO RIVER AT CHROMO, COLORADO

Location - Water stage recorder in SE¼ Sec. 4, T. 32 N., R. 1 E., at highway bridge at Chromo, ½ mile upstream from mouth.

Drainage Area - 21.9 square miles. Zero of gage is 7,288.52 feet above mean sea level, datum of 1929.

Records Available - May 28, 1935 to September 30, 1946.

Maximum discharge during period 1935-1946 - 399 second feet, May 14, 1941, from rating curve extended above 250 second feet. Gage height 4.32 feet, site then in use.

Maximum Discharge - Year 1945 - 160 second feet, May 5. Gage height 3.60 feet.

Maximum Discharge - Year 1946 - 36 second feet, April 17. Gage height 2.65 feet.

Accuracy - Records considered good. Discharge computed during periods of no gage height record and ice effect, November 18, 1944 to March 29, 1945, November 10-12, 14-15, November 17, 1945 to March 28, 1946, on basis of discharge measurements and weather records.

Diversions for irrigation above station.

PIEDRA RIVER AT BRIDGE RANGER STATION NEAR PAGOSA SPRINGS, COLORADO

Location - Water stage recorder in Sec. 22, T. 37 N., R. 3 W., 350 feet upstream from road bridge at Bridge Ranger Station, 15 miles northwest of Pagosa Springs, O'Neill Creek enters 1½ miles downstream and Middle Fork 1½ miles upstream.

Drainage Area - 82.3 square miles. Zero of gage is 7640.35 feet above mean sea level.

Records Available - April 1, 1937 to September 30, 1941, station maintained nearby, July 10, 1946 to September 30, 1946.

Maximum discharge during period 1937-1941, 1946, 1570 second feet, June 23, 1941 from rating curve extended above 800 second feet.

Maximum Discharge - Year 1946 - 633 second feet, August 12. Gage height 4.55 feet.

Accuracy - Records considered good.

Diversions for irrigation above station.

PIEDRA RIVER NEAR PIEDRA, COLORADO

Location - Water stage recorder in Sec. 8, T. 34 N., R. 4 W., at bridge on U. S. Highway 450, 3/4 mile upstream from Yellow Jacket Creek, and 1½ miles north of Piedra.

Drainage Area - 371 square miles.

Records Available - November, 1911 to July, 1912, October, 1939 to September 30, 1946.

Maximum discharge during period 1911-1912, 1939-1946 - 5,400 second feet, May 13, 1941 from rating curve extended above 3,040 second feet. Gage height 8.0 feet, from high water marks, site and datum then in use.

Maximum Discharge - Year 1945 - 2,360 second feet, May 28. Gage height 4.89 feet.

Maximum Discharge - Year 1946 - 1,400 second feet, June 8. Gage height 4.52 feet.

Accuracy - Records considered good, except those for periods of ice effect or no gage height record, November 15-18, November 28, to December 4, December 11-19, December 29, 1944 to January 9, 1945, January 17 to February 1, December 13-31, 1945, January 1-5, 1946, January 7-8, 12-18, 21-23, 27-28, 31, February 1-2, 1946, which were computed on basis of weather records, and are fair.

Diversions for irrigation above station.

WILLIAMS CREEK NEAR BRIDGE RANGER STATION NEAR PAGOSA SPRINGS, COLORADO

Location - Water stage recorder in Sec. 10, T. 37 N., R. 3 W., 10 feet downstream from highway bridge, and 2½ miles north of Ranger Station, 3½ miles above mouth and 17 miles northwest of Pagosa Springs.

Drainage Area - 43.7 square miles. Zero of gage is 7820.56 feet above mean sea level, from U.S.B.R.

Records Available - May 6, 1937 - September 30, 1941, May 24, 1946 to September 30, 1946.

Maximum discharge during period 1937-1941, 1946 - 940 second feet, May 11, 1941, from rating curve extended above 450 second feet. Gage height 3.68 feet.

Maximum Discharge - Year 1946 - 295 second feet, June 7. Gage height 275 feet.

Accuracy - Records considered good.

No diversions for irrigation above station.

WEMINUCHI CREEK NEAR BRIDGE RANGER STATION NEAR PAGOSA SPRINGS, COLORADO

Location - Water stage recorder in Sec. 5, T. 37 N., R. 3 W., ¾ miles downstream from Samuels Ranch house, 3½ miles northwest of Bridge Ranger Station, 5 miles above mouth and 19 miles northwest of Pagosa Springs.

Drainage Area - 53.4 square miles. Zero of gage is 7957.86 feet above mean sea level.

Records Available - April 24, 1937 - September 30, 1941, at nearby site, May 24, 1946 - September 30, 1946.

Maximum discharge during period 1937-1941, 1946 - 867 second feet, May 13, 1941, from rating curve extended above 500 second feet. Gage height 5.34 feet.

Maximum Discharge - Year 1946 - 325 second feet, June 6. Gage height 4.21 feet.

Accuracy - Records considered good.

A few diversions for irrigation above station.

LOS PINOS RIVER BELOW SNOWSLIDE CANYON NEAR WEMINUCHI PASS, COLORADO

Location - Water stage recorder in Sec. 5, T. 39 N., R. 4 W., 3½ miles south of Weminuchi Pass and 8 miles south of Rio Grande Reservoir.

Records Available - May 1, 1945 to September 30, 1946.

Maximum discharge during period - not determined.

Maximum Discharge - Year 1945 - not determined.

Maximum Discharge - Year 1946 - not determined.

Accuracy - Records considered fair.

PINE, OR LOS PINOS, RIVER NEAR BAYFIELD, COLORADO

Location - Water stage recorder in Sec. 26, T. 36 N., R. 7 W., ½ mile downstream from Red Creek, 3/4 mile downstream from Vallecitos Reservoir and 9 miles north of Bayfield.

Drainage Area - 284 square miles. Zero of gage is 7,415.08 feet above mean sea level, adjustment of 1912.

Records Available - October 26, 1927 to September 30, 1946.

Maximum mean daily discharge during period 1927-1946 - 5,070 second feet, May 26, 1926. (Greatest known flood occurred October 5, 1911, discharge not determined)

Maximum Discharge - Year 1945 - 1,290 second feet, June 16, 17. Gage height 3.77 feet.

Maximum Discharge - Year 1946 - 600 second feet, June 18 to July 1. Gage height 2.85 feet.

Accuracy - Records considered excellent.

Diversions for irrigation above station. Vallecitos Reservoir, three fourths mile upstream, capacity 129,700 acre feet, regulates discharge.

PINE, OR LOS PINOS, RIVER AT IGNACIO, COLORADO

Location - Water stage recorder in Sec. 5, T. 33 N., R. 7 W., 3/4 mile upstream from Ignacio and about 2 miles upstream from Rock Creek.

Drainage Area - 448 square miles.

Records Available - April 22, 1899 to October 31, 1903, September 1, 1910 to November 30, 1912, March 10, 1913 to September 30, 1946.

Maximum discharge during period 1910-1914, 1930-1946, 5,570 second feet, August 27, 1932, from rating curve extended above 2,600 second feet by logarithmic plotting. Gage height 6.19 feet. Maximum flood known occurred October 5, 1911, discharge not determined.

Maximum Discharge - Year 1945 - 668 second feet, June 18. Gage height 3.82 feet.

Maximum Discharge - Year 1946 - 557 second feet, August 22. Gage height 3.62 feet.

Accuracy - Records considered good except those for periods of ice effect, December 11-26, 28-30, 1944, January 1-22,24 to February 9, 1945, November 21, 1945 to February 25, 1946 which are poor, discharge computed on basis of discharge measurements and comparison with Pine at Bayfield and San Juan River.

Diversions for irrigation above station. Flow regulated by Vallecitos Reservoir.

ANIMAS RIVER AT HOWARDSVILLE, COLORADO

Location - Water stage recorder in Sec. 12, T. 41 N., R. 7 W., 0.4 mile southwest of Howardsville, and ½ mile downstream from Cunningham Creek.

Drainage Area - 55.9 square miles. Zero of gage is 9,616.98 feet above mean sea level, adjustment of 1912.

Records Available - May 1, 1936 to September 30, 1946.

Maximum discharge during period 1936-1946 - 1,700 second feet, June 21, 1938, from rating curve extended above 800 second feet. Gage height 4.50 feet.

Maximum Discharge - Year 1945 - 941 second feet, June 13. Gage height 3.43 feet.

Maximum Discharge - Year 1946 - 1,060 second feet, June 12. Gage height 3.60 feet.

Accuracy - Records considered excellent except those for periods of ice effect, November 9, 15, 19-23, November 27, 1944 to April 6, 1945, November 17-29, December 1, 1945 to January 22, 1946, January 26 to February 13, 1946, which are good.

No diversions above station.

ANIMAS RIVER ABOVE TACOMA, COLORADO

Location--Water stage recorder in Sec. 8, T. 38 N., R. 8 W., N.M.P.M., about 3.3 miles north of Tacoma post office.

Records Available--January 22 to September 30, 1946.

Maximum Discharge--Year 1946; 5,060 second feet, June 8. Gage height 6.73 feet.

Accuracy--Records considered good except for ice effect period, January 22 to March 26, which were computed on basis of two discharge measurements and weather records, and are fair.

Western Colorado Power Company diverts water from tributaries above station, stores it in Electra Lake and returns it through Tacoma Power Plant below station.

ANIMAS RIVER AT DURANGO, COLORADO

Location--Water stage recorder in Sec. 20, T. 35 N., R. 9 W., at Western Colorado Power Company's plant at Durango, ½ mile upstream from Lightner Creek.

Drainage Area - 692 square miles. Zero of gage is 6,501.57 (Revised) feet above mean sea level, datum of 1929.

Records Available--June 20, 1895 to December 31, 1905, January 1, 1910 to September 30, 1946.

Maximum discharge during period 1895-1905, 1910-1946--25,000 second feet October 5, 1911, from rating curve extended above 7,000 second feet. Gage height 11.0 feet.

Maximum Discharge--Year 1945; 4,370 second feet, June 15. Gage height 4.77 feet.

Maximum Discharge--Year 1946; 4,330 second feet, June 9. Gage height 4.84 feet.

Accuracy--Records considered good except those for periods of ice effect, January 31, to February 13, February 23 to March 11, 1946, and for periods of no gage height record, July 18-22, 1945, October 5-18, 1945, August 23 to September 4, 17-20, 1946, which are fair.

Diversions for irrigation above station. Regulation of flow for power and by numerous lakes.

CEMENT CREEK NEAR SILVERTON, COLORADO

Location--Water stage recorder in Sec. 31, T. 42 N., R. 7 W., at Yukon Mine, 3 miles northwest of Silverton.

Drainage Area--13.5 square miles.

Records Available--May 1, 1936 to September 30, 1937, July 25, 1946 to September 30, 1946.

Maximum discharge during period 1936-1937, 1946--547 second feet, date July 18, 1936. Gage height 4.45 feet.

Maximum Discharge--Year 1946; 39 second feet, July 25. Gage height 1.93 feet.

Accuracy--Records considered good.
No diversions to creek above station that are not returned.

MINERAL CREEK NEAR SILVERTON, COLORADO

Location--Water stage recorder in Sec. 13, T. 41 N., R. 8 W., 300 feet upstream from Bear Creek, and 2 miles west of Silverton.

Drainage Area--43.9 square miles. Zero of gage is 9,399.04 feet above mean sea level, datum of 1929.

Records Available--May 1, 1936 to September 30, 1946.

Maximum discharge during period 1936-1946--1,700 second feet, June 29, 1938, from rating curve extended above 550 second feet. Gage height 4.69 feet.

Maximum Discharge--Year 1945; 674 second feet, June 13. Gage height 3.16 feet.

Maximum Discharge--Year 1946; 798 second feet, June 11. Gage height 3.38 feet.

Accuracy--Records considered good except those during periods of ice effect or no gage-height record, December 13-18, 1945, January 16-22, 1946, January 28-31, February 1-13, 16-28, March 9-20, 1946, which were computed on basis of discharge measurements and weather records, and are fair.

No diversions above station.

HERMOSA CREEK NEAR HERMOSA, COLORADO

Location--Water stage recorder in NW¼ Sec. 3, T. 36 N., R. 9 W., 1 mile northwest of Hermosa and 2 miles upstream from mouth.

Drainage Area--172 square miles. Zero of gage is 6,705.88 feet above mean sea level, datum of 1929.

Records Available--November, 1911 to June, 1912, April, 1913 to September, 1914, April, 1920 to September, 1928, October, 1940 to September 30, 1946. During periods April, 1920 to September, 1928, water stage recorder, and prior to September, 1914, a staff gage, both at site one-half mile upstream at different datum.

Maximum discharge during period 1920-1928, 1940-1946--3,040 second feet, September 12, 1927, by slope area method. Gage height 8.50 feet from flood marks, site and datum then in use.

Maximum Discharge--Year 1945; 813 second feet, May 10. Gage height 2.53 feet.

Maximum Discharge--Year 1946; 348 second feet, June 6. Gage height 2.11 feet.

Accuracy--Records considered good except those for periods of ice effect or not gage-height record, November 19-23, November 25 to December 2, 5-9, 11-22, December 27, 1944 to January 13, 1945, January 21, 1945 to February 1, 1945, February 7, 8, 12, 13 21-28, March 6-10, December 5, 1945 to March 26, 1946, which were computed on basis of discharge measurements, weather records, and are fair.

Diversions for irrigation above station.

LIGHTNER CREEK NEAR DURANGO, COLORADO

Location--Water stage recorder in Sec. 30, T. 35 N., R. 9 W., ½ mile upstream from mouth and ½ mile west of Durango.

Drainage Area--66 square miles.

Records Available--July 1, 1927 to September 30, 1946, June, 1927 to September, 1939, at site 2 miles upstream. All records equivalent.

Maximum discharge during period 1927-1946--2,500 second feet, October 25, 1941, from rating curve extended above 690 second feet on basis of slope area determination at 1,800 second feet. Gage height 5.90 feet.

Maximum Discharge--Year 1945; 285 second feet, April 20. Gage height 2.90 feet.

Maximum Discharge--Year 1946; 1,800 second feet, July 20, by slope area method. Gage height 5.20 feet.

Accuracy--Records considered fair. Periods of ice effect and no gage-height record, November 15-26, 1944, December 12, 1944 to March 12, 1945, March 20-25, December 11, 1945 to March 8, 1946, March 18-24, June 22-29, August 8-11, 1946, are poor.

Diversions for irrigation above station.

FLORIDA RIVER NEAR DURANGO, COLORADO

Location--Water stage recorder in Sec. 4, T. 35 N., R. 8 W., just downstream from Red Creek and 9 miles northeast of Durango.

Drainage Area--96 square miles. Zero of gage is 7,301.88 (revised) feet above mean sea level, datum of 1929.

Records Available--May 21 to July 31, 1899, April 1, 1901 to October 5, 1903, September 8, 1910 to September 10, 1924, April 1, 1927 to September 30, 1946. During period of record this station has been located at several different sites in same vicinity. All records are comparable.

Maximum discharge during period 1899, 1901-1903, 1910-1924, 1927-1946 - 4,640 second feet, June 28, 1927. Gage height 4.50 feet, former site and datum. Greatest flood known occurred October 5, 1911, discharge not determined.

Maximum Discharge--Year 1945; 924 second feet, June 13. Gage height 3.55 feet.

Maximum Discharge--Year 1946; 873 second feet, June 7. Gage height 3.51 feet.

Accuracy--Records considered good above 40 second feet and fair below. Periods of ice effect, November 14, 1944 to March 25, 1945, November 9, 1945 to March 11, 1946, were computed on basis of discharge measurements and weather records.

Diversions for irrigation above station.

LA PLATA RIVER AT HESPERUS, COLORADO

Location--Water stage recorder in Sec. 14, T. 35 N., R. 11 W., at weir 1/8 mile west of Hesperus.

Drainage Area--37.0 square miles. Zero of gage is 8104.71 ~~8,106.65~~ feet above mean sea level, datum of 1929.

Records Available--June 15 to August 11, 1904, April 1, 1906 to August 11, 1906, August 24 to December 31, 1910, May 25, 1917 to September 30, 1946.

Maximum discharge during period 1904, 1906, 1910, 1917-1946--1,880 second feet, September 22, 1941, by slope area method. Gage height (3.30 feet) 4.30 feet, present datum.

Maximum Discharge--Year 1945; 451 second feet, May 4, from rating curve extended above 290 second feet. Gage height 1.97 feet.

Maximum Discharge--Year 1946; 177 second feet, June 4. Gage height 1.57 feet.

Accuracy--Records considered good except those for periods of no gage-height record and of ice effect, October 22-25, 1944, November 25, 1944 to April 6, 1945, December 6, 1945 to March 27, 1946, which were computed on basis of discharge measurements, weather records, and are fair.

Diversions for irrigation above station.

LA PLATA RIVER AT COLORADO-NEW MEXICO STATE LINE

Location--Water stage recorder at masonry control in Sec. 10, T. 32 N., R. 13 W., 300 feet south of Colorado-New Mexico state line at Hill Ranch, and 3 miles north of Pendleton, New Mexico.

Drainage Area--331 square miles. Zero of gage is 5,975.15 feet above mean sea level, datum of 1929.

Records Available--February 19, 1920 to September 30, 1946.

Maximum discharge during period 1920-1946--4,750 second feet, August 24, 1927. Gage height 11.36 feet.

Maximum Discharge--Year 1945; 500 second feet, July 31. Gage height 3.50 feet.

Maximum Discharge--Year 1946; 1,010 second feet, July 29. Gage height 4.75 feet.

Accuracy--Records considered good except those for period of ice effect or no gage-height record, November 30, December 31, 1944 to January 10, 1945, January 24, 25, 30, 31, February 3, April 7-17, July 7-13, August 4-10, November 9, 10, November 19, 1945 to February 18, 1946, which were computed on basis of discharge measurements, weather records, and comparsion with records at Hesperus, and are fair.

Diversions for irrigation above station.

CHERRY CREEK NEAR RED MESA, COLORADO

Location--Water stage recorder in Sec. 7, T. 33 N., R. 12 W., ½ mile upstream from mouth and 2 miles northwest of Red Mesa.

Drainage Area--66 square miles. Zero of gage is 6,466.46 feet above mean sea level, adjustment of 1912.

Records Available--March 21, 1928 to September 30, 1946.

Maximum discharge during period 1928-1946--1,480 second feet August 25, 1940, site and datum then in use, from rating curve extended above 800 second feet, on basis of slope area measurement. Gage height 5.90 feet.

Maximum Discharge--Year 1945; 409 second feet, July 31. Gage height 4.80 feet.

Maximum Discharge--Year 1946; 90 second feet, August 27. Gage height 3.10 feet.

Accuracy - Records considered fair except those for period of no gage height, which are poor.

Diversions for irrigation above station.

EAST MANCOS RIVER NEAR MANCOS, COLORADO

Location - Water stage recorder in NE¼ Sec. 24, T. 36 N., R. 13 W., 800 feet upstream from mouth and 4 miles northeast of Mancos.

Drainage Area - 11.1 square miles.

Records Available - March 1, 1938 to September 30, 1946.

Maximum discharge during period 1938-1946 - 642 second feet, May 8, 1941, from rating curve extended above 130 second feet. Gage height 2.67 feet.

Maximum Discharge - Year 1945 - 95 second feet, May 3. Gage height 1.20.

Maximum Discharge - Year 1944 - 49 second feet, April 24. Gage height 1.01 feet.

Accuracy - Records considered good, except those below 5 second feet, which are fair.

Diversions for irrigation above station.

MIDDLE MANCOS RIVER NEAR MANCOS, COLORADO

Location - Water stage recorder in SE¼ Sec. 13, T. 36 N., R. 13 W., 1,300 feet upstream from East Mancos River, and 4 miles northeast of Mancos on road to Red Arrow Mine.

Drainage Area - 13.7 square miles.

Records Available - March 1, 1938 to September 30, 1946.

Maximum discharge during period 1938-1946 - 297 second feet, May 15, 1944, from rating curve extended above 78 second feet. Gage height 2.38 feet.

Maximum Discharge - Year 1945 - 156 second feet, May 3, from rating curve extended above 88 second feet. Gage height 2.14 feet.

Maximum Discharge - Year 1946 - 31 second feet, April 23. Gage height 1.26 feet.

Accuracy - Records considered good above 10 second feet and fair below. No gage height records, November 20-30, 1944, October 3-8, 1945, November 19-30, 1945, April 1-3, 1946, September 20-22, which were computed on basis of discharge measurements and weather records.

Diversions for irrigation above station.

WEST MANCOS RIVER NEAR MANCOS, COLORADO

Location - Water stage recorder in Sec. 14, T. 36 N., R. 13 W., 1½ miles upstream from confluence with Middle Mancos River and 3½ miles northeast of Mancos.

Drainage Area - 42.1 square miles. Zero of gage is 7,458.54 feet above mean sea level.

Records Available - April 26, 1938 to September 30, 1946.

Maximum discharge during period 1938-1946 - 1,080 second feet, May 13, 1941, from rating curve extended above 260 second feet. Gage height 3.99 feet, present datum.

Maximum Discharge - Year 1945 - 365 second feet, May 3. Gage height 2.40 feet.

Maximum Discharge - Year 1946 - 149 second feet, April 23. Gage height 1.71 feet.

Accuracy - Records considered good, except those for periods of no gage height record or ice effect, November 26-30, 1944, November 21-30, 1945, April 1-9, 1946, which were computed on basis of discharge measurement and weather records, and are fair.

Diversions for irrigation above station.