Compilation of Hydrologic Data, Green Creek, Brazos River Basin, Texas 1966

U.S. GEOLOGICAL SURVEY - WATER RESOURCES DIVISION
Texas District
TRIGG TWICHELL, District Chief

Prepared in cooperation with Texas Water Development Board and Soil Conservation Service

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UNITED STATES DEPARTMENT OF THE INTERIOR
U.S. Geological Survey - Water Resources Division

COMPILATION OF HYDROLOGIC DATA, GREEN CREEK, BRAZOS RIVER BASIN, TEXAS 1966

A PROGRESS REPORT ON HYDROLOGIC STUDIES OF SMALL WATERSHEDS IN TEXAS

Prepared in cooperation with the Texas Water Development Board and the Soil Conservation Service

Copies of this report may be obtained at
U. S. Geological Survey
Water Resources Division
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INTRODUCTION

History and Development of the Small Watershed Project in Texas

In 1950 the U. S. Soil Conservation Service began construction of floodwater-retarding structures in Texas under authorities granted by the Congress. These authorities provide, where economically feasible, that the program be applied to tributary watersheds of 240,000 acres or less. The usual practice has been to control flood runoff from approximately 50 percent of the watershed by a system of floodwater-retarding structures located on headwater subwatersheds of generally less than 10 square miles.

Reports by the U. S. Study Commission-Texas in 1962 and the Soil Conservation Service in 1963 show a total of 3,438 structures to be economically feasible for installation in Texas. As of September 30, 1966, 1,081 structures had been completed.

Because of the need to determine the effect of these systems of floodwater-retarding structures on downstream runoff, the concerned cities, river authorities, and other water-management agencies requested cooperative data collection programs with the Geological Survey. The Geological Survey acknowledged the need for these programs and also recognized the opportunity for collecting much needed basic hydrologic data for small watersheds.

The floodwater-retarding pools probably afford the most accurate and economical methods available for gaging the rate, distribution, and volume of runoff from a small watershed. Therefore, during the period 1951-56, the Geological Survey began hydrologic investigations of eleven small-watershed areas that had been developed, were being developed, or would be developed with floodwater-retarding structures.

Detailed information on each of the eleven study areas within the statewide small-watershed project is given in table 1. The locations are shown on figure 1. The areas were chosen to collect data on watersheds having different climate, topography, geology, and soils.

On four of the watersheds (Little Elm, Mukewater, North, and Pin Oak Creeks) collection of rainfall and downstream runoff records was started with the anticipation of getting at least six years of record before construction of the floodwater-retarding structures. With

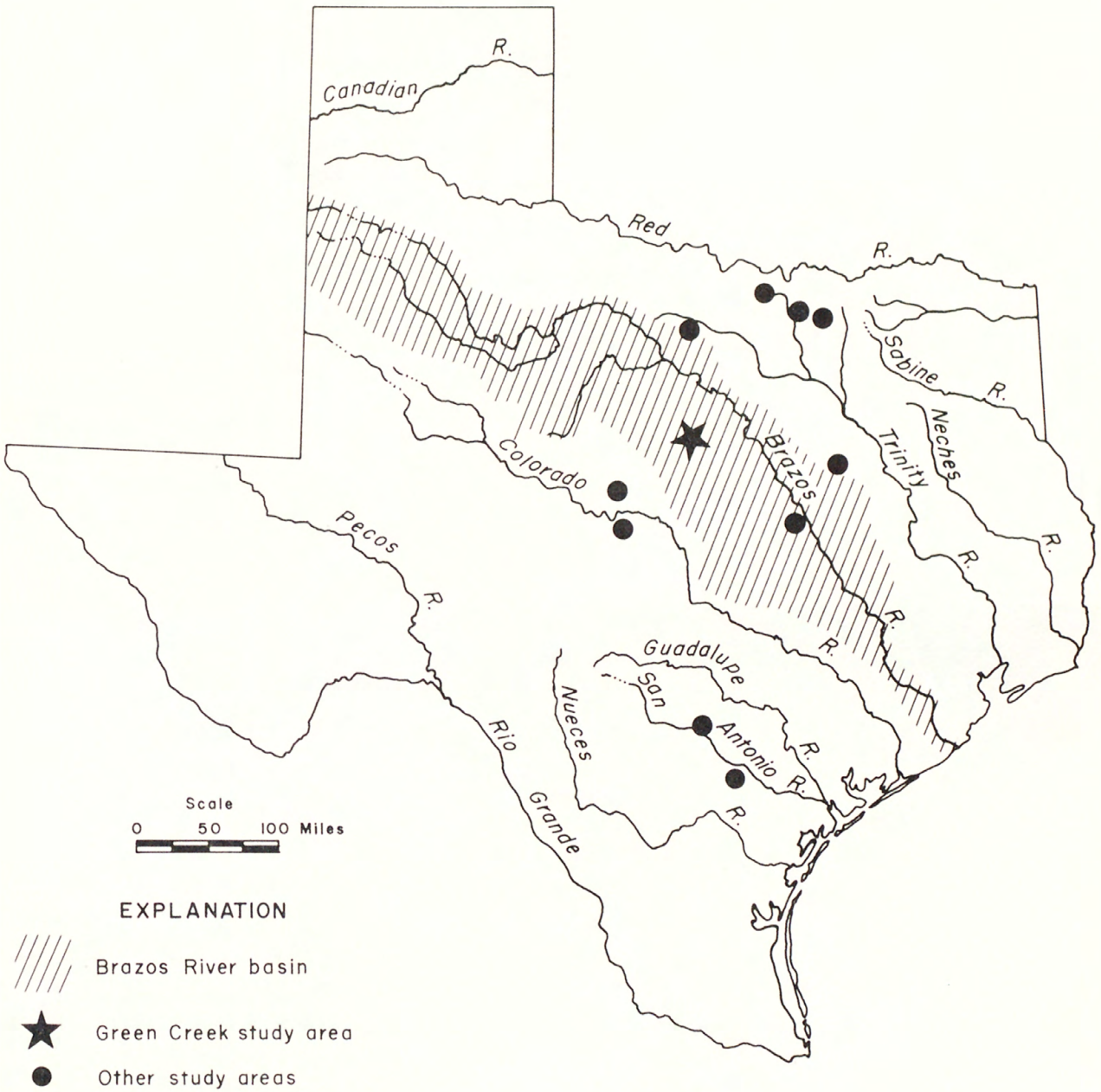

Figure 1.—Map of Texas showing the location of Green Creek study area.

Table 1.--Small watershed study areas in Texas as of Sept. 30, 1966

Watershed	Drainage area above stream-gaging station (sq mi)	Hydrologic data collection began	Floodwater-retarding structures above stream-gaging station	Period the structure were built
Trinity River basin:				
North Creek near Jacksboro	21.6	Aug. 1956	None	-
Elm Fork Trinity River near Muenster	46.0	July 1956	14	1954-57, 63
Little Elm Creek near Aubrey	75.5	June 1956	8	1966
Honey Creek near McKinney	39.0	July 1951	12	1951-57
Pin Oak Creek near Hubbard	17.6	Sept. 1956	6	1962-63, 65
Brazos River basin:				
Green Creek near Alexander	45.5	Oct. 1954	8	1954-56
Cow Bayou near Mooreville	79.6	Sept. 1954	26	1955-58, 64-65
Colorado River basin:				
Deep Creek near Mercury	*43.9	June 1951	5	1951-53
Mukewater Creek near Trickham	70.0	Aug. 1951	6	1961-62, 65
San Antonio River basin:				
Calaveras Creek near Elmendorf	77.2	Aug. 1954	9	1954-58
Escondido Creek at Kenedy	**72.4	July 1954	10	1954-58

* 8.31 sq mi above Dry Prong Deep Creek near Mercury not included in this total.
** 8.43 sq mi above Escondido Creek subwatershed No. 11 (Dry Escondido Creek) near Kenedy not included in this total.

records of rainfall and runoff under drought, flood, and average conditions after construction, hydrologic investigations on these four study areas are expected to define the downstream effects of the system of structures more accurately than investigations in those areas that were developed throughout the data collection periods. Structures have now been built on three of these four study areas--Little Elm, Mukewater, and Pin Oak Creeks. A summary of the progress of construction in each area, to September 30, 1966, is given in table 1.

Objectives of the Project

The broad purpose of these investigations is to collect sufficient data to make the needed interpretations, as presently recognized, and to record the data that will be necessary for future analyses.

In 1961, a committee of engineers and hydrologists representing the Geological Survey, the Texas Water Commission (now the Texas Water Development Board), the city of Dallas, the San Antonio River Authority, and the Soil Conservation Service, reviewed the District small-watersheds project and determined the desirable specific objectives to be as follows:

1. To obtain basic data which will aid in determining the net effect of systems of floodwater-retarding structures on the regimen of streamflow at downstream points, and to publish annually a compilation of the data collected at each of the eleven study areas within the data collection network.

2. To determine, where possible, the effect of the structures on the underlying ground-water reservoir.

3. To determine the effect of the structures on the sediment yield of the basin and to determine the trap efficiency of the structures.

4. To develop computation techniques that will give more accurate estimates of runoff resulting from a given amount of rainfall on small watersheds.

5. To develop relationships between maximum rates of runoff and rainfall in small watersheds that will enable more accurate design of small storm-drainage structures.

6. To check the applicability of flood-routing procedures and techniques for small watersheds.

7. To determine the mimimum instrumentation necessary for making reliable estimates of total storm inflow to the structures.

8. To determine the chemical quality of the water as to its suitability for possible uses and its flocculating characteristics as they affect the sediment-trap efficiency of the pools.

9. To prepare, as data becomes sufficient for the purpose, interpretive reports on individual areas that will fulfill as many of the stated objectives as possible.

These are the objectives of the statewide project. They do not apply, as a whole, to each particular site within the study.

Purpose of the Basic-Data Reports

The purpose of the annual basic-data reports is to present a compilation of the basic hydrologic data collected and analyzed during the preceding water year. Annual compilation and reporting not only provides the needed data for small watersheds, but affords opportunity for appraisal of the adequacy of the data-collection program for attainment of the project objectives.

Purpose of this Report

The U. S. Geological Survey, in cooperation with the Texas Water Development Board, and the Soil Conservation Service, began the investigation of the Green Creek area in October 1954. The study involves the collection of rainfall, runoff, and storage data in the 45.5 square-mile area above the stream-gaging station, Green Creek near Alexander, Texas.

This report contains the basic data collected by the Geological Survey during the water year ending September 30, 1966. Figure 2 shows the location of floodwater-retarding structures and hydrologic instruments in the study area as of September 30, 1966.

DESCRIPTION OF WATERSHED

Location and General Features

The headwaters of Green Creek are near the west-central part of Erath County. The creek flows southeasterly for about 26 miles, where it empties into the Bosque River. The major tributaries of Green Creek above the stream-gaging station are Buck Branch, Cat Branch, and Bell Branch. Green Creek drains a triangular shaped basin of 105 square miles. This report is concerned only with 45.5 square miles of the watershed above the Geological Survey stream-gaging station at the bridge on State Highway 6, 1.7 miles northwest of Alexander.

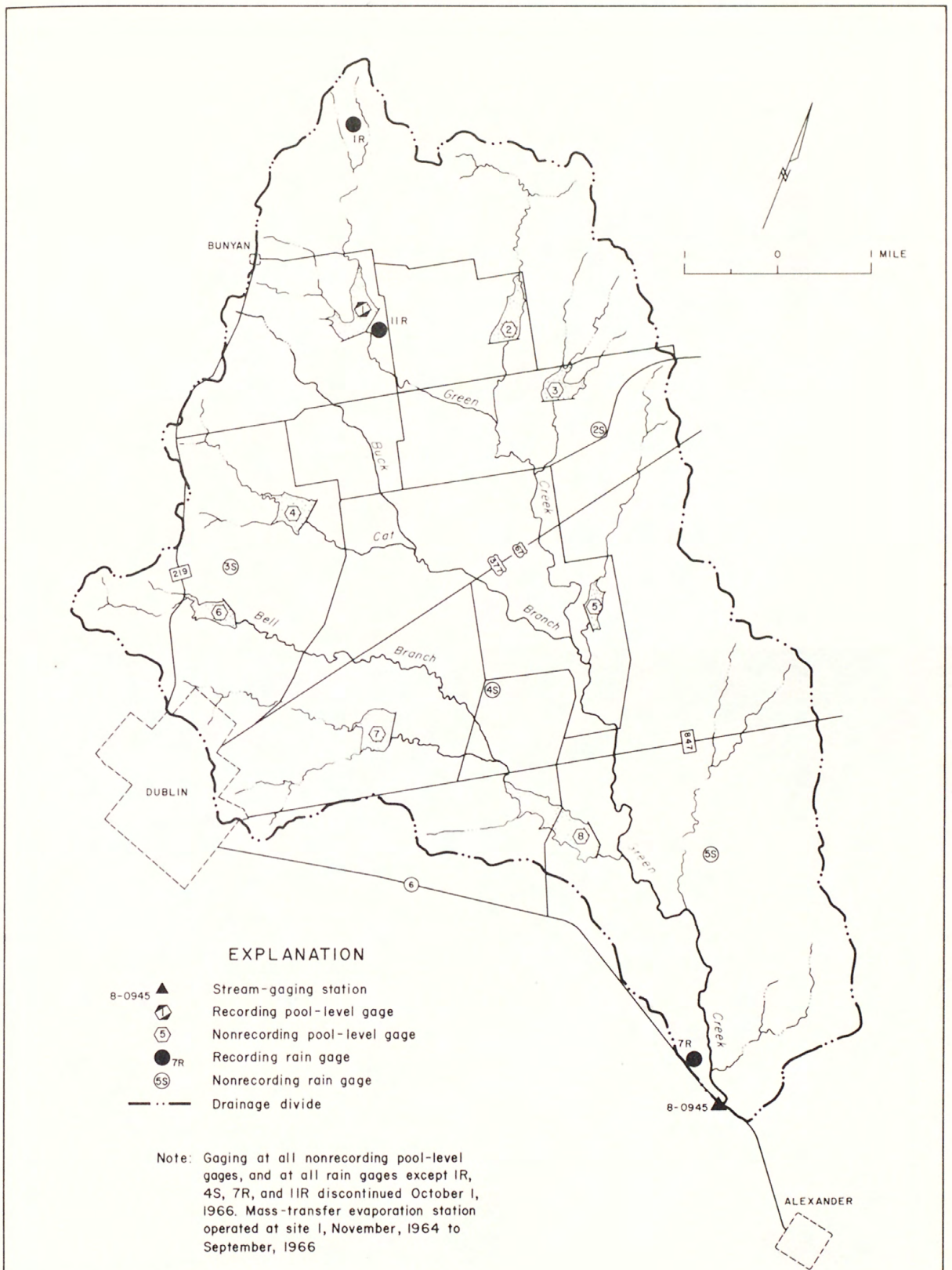

FIGURE 2.—Green Creek study area showing locations of floodwater-retarding structures and hydrologic instrument installations

Elevations in the study area range from 1,500 feet above mean sea level, at the headwater divide, to 1,180 feet above mean sea level, at the stream-gaging station. The total length of Green Creek from the headwater to the stream-gaging station is about 13.5 miles, with an average gradient of about 23.7 feet per mile. An escarpment rises to a gently rolling plain about 100 feet above the flood plain in the reach near the stream-gaging station. The main valley of Green Creek ranges in width from 1,300 feet in the lower reaches to 300 feet near the headwaters.

According to the U. S. Department of Agriculture, land in the watershed consists of about 51 percent Cross Timbers, and about 49 percent in Grand Prairie. The soils of the Cross Timbers area are mostly deep and medium textured, with some coarse textured surface soils overlying crumbly sub-soils. These soils were developed from unconsolidated gray or brown sands. In the Grand Prairie portion of the watershed the soils are dark colored, fine textured and were developed from limestone and shale formations. Most of these soils are shallow to very shallow. Approximately 54 percent of the soils in the watershed are deep, 34 percent are shallow, and 12 percent are very shallow.

Land use for the watershed is as follows:

Land use	Percent
Cultivation	32
Pasture	61
Formerly cultivated	5
Miscellaneous	2

Climate

Climate of the study area is temperate and subhumid with a prevailing south wind. Rainfall over the watershed is produced from different types of storms. Low intensity, low-duration storms are common in the fall and winter from continental polar fronts which become stationary. The same type of general storm occurs when the remnants of hurricanes, which are large, low-pressure, maritime tropical air masses, move inland. However, the most common type of storm is the squall-line thunderstorm, during the spring and summer.

The normal annual rainfall at the U. S. Weather Bureau station at Dublin is 31.67 inches, based on the period 1930-61. During the period 1956-65, the weighted-mean water year rainfall on the study area ranged from 21.03 inches in 1956, to 34.26 inches in 1958, with an 11-year weighted average of 28.56 inches.

FLOODWATER-RETARDING STRUCTURES

There are eight floodwater-retarding structures in the Green Creek watershed above the stream-gaging station (fig. 2). These eight structures have a total combined capacity of 7,840 acre-feet below flood-spillway crests, and control 22.8 square miles, or approximately 50 percent of the drainage area. Table 2 is a summary of physical data at each of the eight floodwater-retarding sites.

HYDROLOGIC INSTRUMENTS

Instruments to collect rainfall, runoff, and storage data in the study area consist of a network of rain gages, staff gages, or water-stage recorder at each of the eight floodwater-retarding structures, and a stream-gaging station on Green Creek downstream from the eight structures. Location of instruments is shown on figure 2.

Rainfall

Two recording and eight nonrecording rain gages are located at points throughout the study area to define the total rainfall and rainfall intensities. Measurements of rainfall at all rain gages are made at weekly intervals by Soil Conservation Service personnel. A summary of rainfall from data collected at these gages is included in the appendix. All rain gages were discontinued September 30, 1966, except sites 1-R, 4-S, 2-R, and 11-R.

Runoff and Pool Contents

A continuous water-stage recording gage is operated on one representative floodwater-retarding pool (site 1), at which data are collected to measure the contents, and compute the surface area, inflow, and outflow. Records at site 1 began May 12, 1955. Monthly and annual summary of the water budget for the 1966 water year at site 1 is shown in the appendix.

Weekly readings of staff gages are obtained on each of the other seven floodwater-retarding pools by Soil Conservation Service personnel. These readings will provide data to determine the quantity of water retained or released from the structures in the study area. The weekly reading of staff gages on the seven floodwater-retarding structures were discontinued on September 30, 1966.

Table 2.--Floodwater-retarding structure data, Green Creek study area.

Site Number	Drainage Area (sq mi)	Date Dam Completed	Date Gage Established	Datum of Gage above Mean Sea Level	Emergency Spillway			Drop Outlet		Portholes			Controlled Opening		Pipe through Dam (in.)	Range of Staff Gages
					Number and Width (ft)	Gage Height (ft)	Content (ac-ft)	Gage Height (ft)	Pool Content (ac-ft)	Number and Size (in.)	Gage Height at Bottom (ft)	Pool Content (ac-ft)	Gage Height at Bottom (ft)	Pool Content (ac-ft)		
1	3.18	4-25-55	5-12-55	1,408.0	1 (250)	21.8	1,063 1,131	11.0	194	-	-	-	3.76	34	14	3.4-26.6
2	2.65	2-27-55	10-18-55	1,381.0	1 (200)	25.0	726	15.0	111	1 12"x24"	10.67 plugged	28	7.33	6.0	14	6.7-30.5
3	1.53	9- 5-54	10-18-55	1,369.8	1 (150)	24.6	540	15.0	108	-	-	-	7.00	.4	14	10.2-27.1
4	1.74	6- 5-55	10-18-55	1,401.5	1 (175)	26.5	642	15.0	48	-	-	-	8.00	0	a/22	6.8-33.9
5	2.09	9-29-55	4-12-56	1,306.4	1 (200)	26.4	692	15.0	147	-	-	-	1.00	4	b/22	3.4-30.5
6	1.50	10- 5-55	10-18-55	1,422.4	1 (100)	29.9	647	15.0	68	-	-	-	7.00	6.2	c/17	0 - 33.9
7	3.25	3-28-56	4-12-56	1,347.0	1 (200)	28.3	1,166	15.0	148	-	-	-	5.00	16.6	d/17	0 - 33.9
8	6.03	9-24-56	12-10-56	1,256.0	2 (100), (300)	37.0	1,906	18.0	294	2 8"x8" 2 8"x10"	15.0	188	0	40	17	0 - 43.7

a/ 10-inch baffle.
b/ 9-inch baffle.
c/ 11-inch baffle.
d/ 12-inch baffle.

A continuous, water-stage recorder at the stream-gaging station on Green Creek near Alexander records the stage, which is used with measurements of streamflow in the computation of the total runoff from the study area. Streamflow records at this gage began May 27, 1958.

SUMMARY OF DATA FOR 1966 WATER YEAR

Annual

The weighted-mean rainfall over the study area during the 1966 water year was 30.35 inches, which is 96 percent of the 1931-60 long-term mean annual rainfall of 31.67 inches at Dublin, Texas. Rainfall was scattered throughout the year with every month receiving some rainfall. The months of August and September had the greatest rainfall with 4.82 and 4.33 inches respectively. The month of March had the smallest rainfall with only 0.26 inch. Mean daily discharge for the water year at the stream-gaging station was 2.23 cfs (cubic feet per second). Total runoff for the year at the stream-gaging station was 1,620 acre-feet or 0.67 inch.

The weighted-mean rainfall at subwatershed No. 1 was 30.04 inches or 95 percent of average for the area. Inflow was 264 acre-feet, outflow totaled 50.4 acre-feet and the net change in pool content for the year was +76 acre-feet.

Individual Storms

A storm event is defined as a period of rainfall, separated by at least 6 hours from other rainfall. Storms are generally selected for detailed rainfall-runoff computations on the basis of rainfall totals and distribution, the peak discharge produced from the rainfall at the stream-gaging station, and the assurance of good rainfall and runoff record for the storm periods selected.

For the 1966 water year two storm periods were selected for detailed computations. These computations include detailed time-breakdown of rainfall and discharge. Hydrograph and mass curves are drawn for illustration. The storms selected occurred on April 29 and June 13, 1966. A summary of rainfall-runoff data for each storm is shown in table 3. Computations and curves for each storm are shown in the appendix.

Table 3.--Storm rainfall-runoff data, water year 1966

Date of storm	Duration (hours)	Total	Rainfall (inches) Maximum increment			Runoff (inches)	Ratio runoff to rainfall
			15-minutes	30-minutes	60-minutes		
Green Creek near Alexander, Tex. (Drainage area 45.5 sq. mi., of which 22.0 sq. mi. is above floodwater-retarding structures)							
Apr. 29, 30, 1966	14	0.68	0.24	0.31	0.31	0.01	0.01
June 13	5	1.42	.71	.85	.90	.13	.09
Green Creek subwatershed no. 1 near Dublin, Tex. (Drainage area 3.18 sq. mi.)							
Apr. 30, 1966	6	2.17	*.73	*1.46	*1.73	.49	.23
June 13	6	3.55	*.76	*1.12	*2.05	.46	.13

* From rain gage 1-R.

Water Quality and Use

During the 1966 water year, one water sample was collected at each of the floodwater-retarding structures (table 4). Dissolved-solids concentration ranged from 155 ppm (parts per million) at site 5, to 320 ppm at site 7.

On the basis of the samples collected during the 1966 water year and samples collected in previous years, the water in the Green Creek study area should be satisfactory for municipal, domestic, and most industrial uses, and would range from excellent to satisfactory for irrigation.

Calcium and bicarbonate ions in water aid in the flocculation of clay particles, whereas sodium ions aid in the dispersion of clay particles. In the waters of the Green Creek study area, the concentration of the calcium ions is about equal to the concentration of the sodium ions. Therefore, the effect of the dissolved materials on the deposition of fine sediments in the pools should be small.

Table 4.--Chemical analyses of surface water in the Green Creek study area, 1966 water year
(Chemical analyses, in parts per million, except as indicated)

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Boron (B)	Dissolved solids (calculated)			Hardness as $CaCO_3$		Percent sodium	Sodium adsorption ratio	Specific conductance (micromhos at 25° C)	pH
														Parts per million	Tons per acre-foot	Tons per day	Calcium, magnesium	Noncarbonate				
8-0940. GREEN CREEK SUBWATERSHED NO. 1 NEAR DUBLIN																						
June 8, 1966.....		3.0		36	4.4	16	5.6	120	12	24	0.2	2.0		162			108	10			296	7.1
GREEN CREEK SUBWATERSHED NO. 2 NEAR DUBLIN																						
June 8, 1966.....		4.8		46	7.2	27	5.9	129	28	53	0.2	0.8		236			144	39			442	7.2
GREEN CREEK SUBWATERSHED NO. 3 NEAR DUBLIN																						
June 8, 1966.....		1.6		30	6.2	28	7.9	96	21	50	0.3	0.2		192			100	22			373	7.0
GREEN CREEK SUBWATERSHED NO. 4 NEAR DUBLIN																						
June 8, 1966.....		2.8		32	7.3	34	6.5	75	32	70	0.2	1.2		223			110	48			433	7.0
GREEN CREEK SUBWATERSHED NO. 5 NEAR DUBLIN																						
June 8, 1966.....		10		28	7.8	13	5.0	92	14	29	0.3	0.2		155			102	27			280	7.2
GREEN CREEK SUBWATERSHED NO. 6 NEAR DUBLIN																						
June 8, 1966.....		1.4		46	4.1	18	12	130	34	27	0.4	3.0		210			132	25			380	7.0
GREEN CREEK SUBWATERSHED NO. 7 NEAR DUBLIN																						
June 8, 1966.....		1.4		39	14	56	7.5	140	58	74	0.4	0.5		320			155	40			594	7.2
GREEN CREEK SUBWATERSHED NO. 8 NEAR DUBLIN																						
June 8, 1966.....		1.2		27	14	43	6.0	137	35	50	0.4	1.8		245			125	13			456	7.2

A P P E N D I X

8-0940. Green Creek subwatershed No. 1 near Dublin, Tex.

Location.--Lat 32°10'00", long 98°20'30", near center of dam on main headwater channel of Green Creek, three-fourths of a mile downstream from county road, 1.0 mile east of Farm Road 219, and 4.0 miles north of Dublin, Erath County.

Drainage area.--3.18 sq mi.

Records available.--May 1955 to September 1966.

Gage.--Water-stage recorder. Datum of gage is 1,408.00 ft above mean sea level, datum of 1929 (levels by Soil Conservation Service).

Average outflow.--11 years, 376 acre-ft per year.

Extremes.--Maximum outflow during year, 13.5 cfs June 13 (gage height, 11.94 ft); no outflow for most of year. Maximum inflow, 645 cfs (average for 5-minute interval) Apr. 30, computed from change in pool contents, adjusted for rainfall on pool surface during time of peak inflow; no inflow for many days.
1955-66: Maximum outflow, 709 cfs May 1, 1955 (gage height, 23.21 ft); no outflow for many days. Maximum inflow, 11,500 cfs (averaged for 5-minute interval) May 1, 1956, revised, computed from outflow and change in pool contents, unadjusted for rainfall on pool surface during time of peak inflow (no rainfall record at time of peak inflow); no inflow for many days each year.

Remarks.--Records good. Pool is formed by earth-fill dam, completed Apr. 25, 1955. Outlet structure is 30-inch square concrete drop inlet connected to 14-inch concrete outlet pipe. Top of drop inlet is at gage height 11.0 ft, emergency spillway at gage height 21.8 ft. There is a clean-out gage valve at end of 8-inch pipe which connects to lower end of drop inlet box at gage height 3.76 ft. Pool capacity at emergency spillway level, 1,131 acre-ft; at top of drop inlet, 240 acre-ft; and at controlled outlet pipe, 57.4 acre-ft. Dam built by Soil Conservation Service for flood control. Rainfall record obtained by a recording rain gage located in basin above station. No known diversions this year. Permit calls for 181 acre-ft per year, for irrigation. Capacity and surface area based on Soil Conservation Service sedimentation survey Apr. 9, 1962.

Pool water budget, in acre-feet, water year October 1965 to September 1966

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
Inflow 1/	10.3	2.1	1.2	2.6	1.7	0.9	87.3	25.2	79.5	3.1	6.6	43.7
Outflow	0	0	0	0	0	0	0	0.6	49.5	0	0	0
(††)	3.01	1.96	1.74	0.96	1.25	0.04	6.24	0.82	3.82	0.85	4.00	5.35

Calendar year 1965: Inflow 387 Outflow 297 †† 26.65
Water year 1965-66: Inflow 264 Outflow 50.4 †† 30.04

Peak inflow (base, 100 cfs)

Date	Time	Discharge
4-30	1415	345 (5-min)
5- 1	0540	113 (5-min)
9-13	0300	285 (5-min)

1/ Inflow adjusted for rainfall on pool and pool losses.
†† Weighted mean rainfall, in inches.

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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY - TEXAS DISTRICT

WATER BUDGET OF POOLS

ANNUAL SUMMARY

1955 WATER YEAR

8-940. Green Creek subwatershed No. 1 near Dublin, Tex., Tex. Drainage Area 3.18 sq. mi.

Continuous water-stage recorder: ratio 1:6. Date of last sediment survey 4-25-55.

Maxima: gage height, 20.06 ft; outflow, 16 c.f.s.; surface area, 111.1 acres; contents, 859 acre-feet; on May 19.

Minima: gage height, 2.33 ft; surface area, 12.0 acres; contents, 42.9 acre-feet; on May 15.

Maximum inflow, 3,630 c.f.s. (averaged for 5-min. interval and adjusted for rainfall on pool surface) on May 18, 1955.

Averages: ____ water years, (———); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year.

Pool water budget, in acre-feet, water year October ____ to September 1955.

	Oct	Nov.	Dec.	Calendar year ____	Jan.	Feb.	Mar.	Apr.	May.	June	July	Aug.	Sept.	Water year 1955
Total Inflow 1/									783	23.6	1.98	2.9	32.8	
Total Outflow									414	243	0	17.3	13.1	
Total Consumption									19.4	30.5	33.8	30.9	15.5	
†									+399	-236	-30.4	-43.5	+10.0	
‡									29.9	41.2	33.8	27.6	23.9	
††									7.70	3.88	.50	.78	2.94	

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, 100 c.f.s.)

Date	Time	Discharge	Date	Time	Discharge
May 18, 1955	2120	3,630			

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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY - TEXAS DISTRICT

WATER BUDGET OF POOLS

ANNUAL SUMMARY

1956 WATER YEAR

8-940. Green Creek subwatershed No. 1 near Dublin, Tex. Drainage Area 3.18 sq. mi.

Continuous water-stage recorder: ratio 1:6. Date of last sediment survey 4-25-55.

Maxima: gage height, 23.21 ft; outflow, 209 c.f.s.; surface area, 141 acres; contents, 4,330 acre-feet; on May 1.

Minima: gage height, 5.61 ft; surface area, 18.5 acres; contents, 93.8 acre-feet; on Sept. 30.

Maximum inflow, 11,500 c.f.s. (averaged for 5-min. interval and adjusted for rainfall on pool surface) on May 1, 1956.

Averages: ____ water years, (____); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year.

Pool water budget, in acre-feet, water year October 1955 to September 1956.

	Oct.	Nov.	Dec.	Calendar year 1955	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water year 1956
Total Inflow 1/	21.3	4.2	0.2	———	21.1	9.4	0	1,020	95.6	1.1	0.1	0.3	0	1,170
Total Outflow	6.0	6.0	0	———	17.9	0	0	5.8	984	14.7	21.4	12.9	12.3	1,080
Total Consumption	19.1	16.1	10.1	———	11.7	6.2	15.9	12.8	59.6	32.5	26.8	22.9	15.1	249
†	-1.1	-17.1	-9.7	———	-6.5	+3.8	-15.9	+1,050	-907	-44.4	-47.7	-34.1	-27.4	-53.1
‡	27.3	24.8	23.0	———	21.7	22.3	209	21.4	85.2	38.2	30.4	24.1	20.5	30.0
††	1.17	.40	.11	———	1.11	1.46	0	11.54	4.61	.50	.16	.75	0	21.81

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, 100 c.f.s.)

Date	Time	Discharge	Date	Time	Discharge
May 1, 1956	2,030	11,500			

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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY - TEXAS DISTRICT

WATER BUDGET OF POOLS

ANNUAL SUMMARY

1956 WATER YEAR

_____ Green Creek subwatershed No. 2 near Dublin, Tex. Drainage Area 2.65 sq. mi.

~~Continuous water stage recorder~~ staff gage ratio ____. Date of last sediment survey none.

Maxima: gage height, 26.9 ft; outflow, ~~1,000~~ 1,000* c.f.s.; surface area, 107 acres; contents, 916 acre-feet; on May 1.

Minima: gage height, 7.0 ft; surface area, 3.5 acres; contents, 0.4 acre-feet; on Sept. 30.

Maximum inflow, ____ c.f.s. (averaged for 5-min. interval and adjusted for rainfall on pool surface) on ____.

Averages: ___ water years, (____); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year.

Pool water budget, in acre-feet, water year October 1955 to September 1956.

	Oct	Nov.	Dec.	Calendar year 1955	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water year 1956
Total Inflow 1/	—	0	0	—	0.8	9.4	0	7.3	3.28	9.4	0.6	0.4	0	1,060
Total Outflow	—	0	0	—	0	0	0	69.6	96.8	10.1	2.8	0	0	1,050
Total Consumption	—	2.7	1.3	—	1.6	2.3	3.5	6.0	41.0	8.9	8.8	5.0	2.9	84.0
†	—	-2.5	-1.3	—	-0.4	+7.7	-3.5	+66.9	-64.9	-9.2	-10.8	-4.3	-2.9	-7.2
‡	—	4.8	4.4	—	4.2	5.7	5.7	10.9	54.7	10.5	7.3	4.7	3.8	10.2
††	1.08	.39	.12	—	1.19	1.49	.02	11.08	4.62	.48	.26	.80	0	21.53

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.
* Estimated on basis of SCS design discharge for earth spillways.

Peak inflow - (base, ____ cfs)

Date	Time	Discharge	Date	Time	Discharge

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GEOLOGICAL SURVEY - TEXAS DISTRICT

WATER BUDGET OF POOLS

ANNUAL SUMMARY

1956 WATER YEAR

____ . Green Creek subwatershed No. 3 near Dublin, Tex. Drainage Area 1.53 sq. mi.

~~Continuous water-stage recorder~~ Staff gage ratio ____. Date of last sediment survey none.

Maxima: gage height, 25.2 ft; outflow, 120* c.f.s.; surface area, 78.0 acres; contents, 636 acre-feet; on May 1.

Minima: gage height, 7.1 ft; surface area, 1.3 acres; contents, 0.6 acre-feet; on Sept. 30.

Maximum inflow, ____ c.f.s. (averaged for 5-min. interval and adjusted for rainfall on pool surface) on ____.

Averages: ____ water years, (____); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year.

Pool water budget, in acre-feet, water year October 1955 to September 1956.

	Oct.	Nov.	Dec.	Calendar year 1955	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water year 1956
Total Inflow 1/	——	0	0	——	0.3	1.7	0	432	196	7.5	0	0.6	0	638
Total Outflow	——	0	0	——	0	0	2.0	89	618	25.2	20.8	7.9	0	684
Total Consumption	——	4.1	2.8	——	3.0	2.0	.35	5.7	37.3	32.8	20.5	9.0	3.4	124
†	——	-3.8	-2.7	——	-1.7	+0.8	-5.5	+439	-435	-99.5	-90.7	-16.0	-3.4	-118
‡	——	9.9	8.8	——	8.2	8.5	6.8	11.2	41.4	25.2	14.5	7.6	4.1	12.2
††	.90	.38	.13	——	1.38	1.55	.07	10.20	4.64	.42	.49	.89	0	21.05

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.
* Estimated on basis of SCS design discharge for earth spillways

Peak inflow - (base, ____ c.f.s.)

Date	Time	Discharge	Date	Time	Discharge

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1956 WATER YEAR

_____ Green Creek subwatershed No. 4 near Dublin, Tex. Drainage Area 1.74 sq. mi.

~~Continuous water stage recorder~~ Staff gage ratio _____. Date of last sediment survey none.

Maxima: gage height, 27.3 ft; outflow, 230* c.f.s.; surface area, 97.6 acres; contents, 718 acre-feet; on May 1.

Minima: gage height, 7.2 ft; surface area, 0 acres; contents, 0 acre-feet; on Jan. 17.

Maximum inflow, _____ c.f.s. (averaged for 5-min. interval and adjusted for rainfall on pool surface) on _____.

Averages: ____ water years, (_____); inflow, _____ acre-feet/year; outflow, _____ acre-feet/year; rainfall, _____ inches/year.

Pool water budget, in acre-feet, water year October 1955 to September 1956.

	Oct.	Nov.	Dec.	Calendar year 1955	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water year 1956
Total Inflow 1/	———	0	0	———	0	0	0	5.12	281	0.3	0	0.9	0	794
Total Outflow	———	0	0	———	0	0	0	9.9	746	9.7	0	0	1.4	767
Total Consumption	———	0	0	———	0	0	0	2.7	36.6	14.8	9.6	6.1	3.4	73.2
†	———	0	0	———	0	0	0	+5.12	-466	-23.7	-9.5	-5.0	-4.8	+3.0
‡	———	0	0	———	0	0	0	3.6	43.0	12.9	7.9	5.3	4.2	6.4
††	2.18	.33	.11	———	1.09	.66	.06	12.43	5.33	.37	.16	.40	0	23.12

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

* Estimated on basis of SCS design discharge for earth spillway.

Peak inflow - (base, _____ cfs)

Date	Time	Discharge	Date	Time	Discharge

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WATER BUDGET OF POOLS

ANNUAL SUMMARY

1956 WATER YEAR

Green Creek subwatershed No. 5 near Dublin, Tex. Drainage Area 2.09 sq. mi.

~~Continuous water stage recorder~~ Staff gage ratio ——. Date of last sediment survey none.

Maxima: gage height, 27.3 ft; outflow, *300 c.f.s.; surface area, 78.6 acres; contents, 762 acre-feet; on May 1.

Minima: gage height, 5.5 ft; surface area, 4.2 acres; contents, 13.2 acre-feet; on May 28.

Maximum inflow, —— c.f.s. (averaged for 5-min. interval and adjusted for rainfall on pool surface) on ——.

Averages: —— water years, (——); inflow, —— acre-feet/year; outflow, —— acre-feet/year; rainfall, —— inches/year.

Pool water budget, in acre-feet, water year October 1955 to September 1956.

	Oct.	Nov.	Dec.	Calendar year 1955	Jan.	Feb.	Mar.	Apr	May	June	July	Aug.	Sept.	Water year 1956
Total Inflow 1/	——	——	——	——	——	——	——	632	154	0.6	0.7	1.2	0	——
Total Outflow	——	——	——	——	——	——	——	9.9	639	0	0	4.2	5.5	——
Total Consumption	——	——	——	——	——	——	——	3.7	40.9	25.0	23.6	22.4	14.6	——
†	——	——	——	——	——	——	——	+630	-500	-23.5	-22.0	-24.0	-20.1	——
‡	——	——	——	——	——	——	——	44	45.4	22.7	21.5	20.4	18.4	——
††	——	——	——	——	——	——	——	10.16	4.63	.44	.50	.86	0	——

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.
* Estimated on basis of SCS design discharge for earth spillways.

Peak inflow - (base, —— cfs)

Date	Time	Discharge	Date	Time	Discharge

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WATER BUDGET OF POOLS

ANNUAL SUMMARY

1956 WATER YEAR

Green Creek subwatershed No. 6 near Dublin, Tex. Drainage Area 1.50 sq. mi.

~~Continuous water-stage recorder~~ Staff Gage; ratio ____. Date of last sediment survey none.

Maxima: gage height, 27.8 ft; outflow, 15 c.f.s.; surface area, 57.1 acres; contents, 523 acre-feet; on May 1.

Minima: gage height, 0 ft; surface area, 0 acres; contents, 0 acre-feet; on many days

Maximum inflow, ____ c.f.s. (averaged for 5-min. interval and adjusted for rainfall on pool surface) on ____.

Averages: ____ water years, (____); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year.

Pool water budget, in acre-feet, water year October 1955 to September 1956

	Oct.	Nov.	Dec.	Calendar year 1955	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water year 1956
Total Inflow 1/	____	____	____	____	____	____	____	____	29.3	0.4	0.1	0.3	0	____
Total Outflow	____	____	____	____	____	____	____	____	40.5	0	0	0	0	____
Total Consumption	____	____	____	____	____	____	____	____	25.8	21.8	16.5	9.0	6.5	____
†	____	____	____	____	____	____	____	____	-38.0	-21.0	-16.3	-8.5	-6.5	____
‡	____	____	____	____	____	____	____	____	25.8	13.3	9.0	6.2	4.4	____
††	____	____	____	____	____	____	____	12.43	5.33	.37	.16	.40	0	____

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, ____ c.f.s)

Date	Time	Discharge	Date	Time	Discharge
2			2		

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WATER BUDGET OF POOLS

ANNUAL SUMMARY

1956 WATER YEAR

Green Creek subwatershed No. 7 near Dublin, Tex. Drainage Area 3.25 sq. mi.

~~Continuous water stage recorder~~ Staff Gage; ratio ____. Date of last sediment survey none.

Maxima: gage height, 25.3 ft; outflow, 16.3 c.f.s.; surface area, 104 acres; contents, 810 acre-feet; on May 1.

Minima: gage height, 0 ft; surface area, 0 acres; contents, 0 acre-feet; on Apr. 11.

Maximum inflow, ____ c.f.s. (averaged for 5-min. interval and adjusted for rainfall on pool surface) on ____.

Averages: ____ water years, (____); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year.

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Pool water budget, in acre-feet, water year October 1955 to September 1956.

	Oct.	Nov.	Dec.	Calendar year 1955	Jan.	Feb.	Mar.	Apr.	May.	June	July	Aug.	Sept.	Water year 1956
Total Inflow 1/	—	—	—	—	—	—	—	—	58.7	19.7	0.6	1.7	0	—
Total Outflow	—	—	—	—	—	—	—	—	586	19.8	5.6	27.8	19.8	—
Total Consumption	—	—	—	—	—	—	—	—	37.8	26.9	22.1	19.1	7.0	—
†	—	—	—	—	—	—	—	—	-523	-26.0	-26.3	-44.9	-26.8	—
‡	—	—	—	—	—	—	—	—	50.9	29.0	18.9	13.2	7.0	—
††	—	—	—	—	—	—	—	10.31	4.79	.89	.57	.37	0	—

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† ~~Weighted~~ mean rainfall, in inches.

Peak inflow - (base, ____ cfs)

Date	Time	Discharge	Date	Time	Discharge

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WATER BUDGET OF POOLS

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1957 WATER YEAR

8-940. Green Creek subwatershed No. 1 near Dublin, Tex. Drainage Area 3.18 sq. mi.

Continuous water-stage recorder: ratio 1:6. Date of last sediment survey 4-25-55.

Maxima: gage height, 14.92 ft; outflow, 15.4 c.f.s.; surface area, 71.0 acres; contents, 466 acre-feet; on May 25.

Minima: gage height, 9.97 ft; surface area, 15.6 acres; contents, 78.7 acre-feet; on Dec. 16.

Maximum inflow, 882 c.f.s. (averaged for 5-min. interval and adjusted for rainfall on pool surface) on April 26, 1957.

Averages: ___ water years, (_____); inflow, _____ acre-feet/year; outflow, _____ acre-feet/year; rainfall, _____ inches/year.

Pool water budget, in acre-feet, water year October 1956 to September 1957.

	Oct.	Nov.	Dec.	Calendar year 1956	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water year 1957
Total Inflow 1/	0.7	3.3	63.3	1,210	5.1	6.0	10.5	358	619	0	20.5	0.1	1.7	1,090
Total Outflow	0	0	0	4,070	0	0	0	128	684	57	0	0	0	869
Total Consumption	13.6	10.1	11.6	239	11.8	10.5	14.9	19.1	30.9	27.4	50.8	43.2	24.4	268
†	-10.3	-5.0	+55.6	+ 11.1	-5.6	-2.4	0	+236	-55.4	-80.0	-25.7	-42.2	-16.0	+ 49.0
‡	17.4	16.9	19.3	28.3	23.6	23.3	22.9	27.3	47.6	40.0	35.8	30.4	26.5	27.6
††	1.82	1.26	3.01	26.22	.56	1.11	2.30	8.10	9.82	1.29	1.64	.36	3.00	34.27

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, 100 cfs)

Date	Time	Discharge	Date	Time	Discharge
April 26, 1957	1550	882			

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WATER BUDGET OF POOLS

ANNUAL SUMMARY

1957 WATER YEAR

____. Green Creek subwatershed No. 2 near Dublin, Tex. Drainage Area 2.65 sq. mi.

~~Continuous water stage recorder~~ staff gage ratio ____. Date of last sediment survey none.

Maxima: gage height, 16.6 ft; outflow, 14.2 c.f.s.; surface area, 41.2 acres; contents, 168 acre-feet; on May 25.

Minima: gage height, 6.0 ft; surface area, 2.5 acres; contents, 2.0 acre-feet; on Nov. 1.

Maximum inflow, ____ c.f.s. (averaged for 5-min. interval and adjusted for rainfall on pool surface) on ____.

Averages: ____ water years, (____); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year.

Pool water budget, in acre-feet, water year October 1956 to September 1957.

	Oct.	Nov.	Dec.	Calendar year 1956	Jan.	Feb.	Mar.	Apr.	May.	June	July	Aug.	Sept.	Water year 1957
Total Inflow 1/	4.4	3.3	85.0	1,150	21.3	0	10.5	263	243	344	2.5	0	0.7	668
Total Outflow	5.0	0	51.0	1,110	22.2	0	0	149	352	41.1	0	0	0	620
Total Consumption	2.8	2.1	4.0	88.9	6.7	3.6	11.2	5.5	12.3	10.0	9.7	7.9	4.9	80.7
†	-3.0	+1.5	+30.9	+26.0	-6.8	-2.8	+1.0	+123	-106	-15.0	-6.6	-7.8	-2.7	+5.7
‡	2.9	3.2	5.0	9.9	11.2	7.3	9.2	12.7	20.5	11.1	9.2	7.0	5.2	8.7
††	1.76	1.30	3.00	26.00	.65	1.08	2.25	7.83	9.46	1.53	1.18	.26	3.22	33.52

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, ____ c.f.s.)

Date	Time	Discharge	Date	Time	Discharge

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WATER BUDGET OF POOLS

ANNUAL SUMMARY

1957 WATER YEAR

____ Green ____ Creek subwatershed No. 3 near Dublin, Tex. Drainage Area 1.53 sq. mi.

~~Continuous water stage recorder~~ Staff gage: ratio —. Date of last sediment survey none

Maxima: gage height, 17.5 ft; outflow, 22 c.f.s.; surface area, 38.5 acres; contents, 190 acre-feet; on Apr. 26.

Minima: gage height, 6.0 ft; surface area, 0 acres; contents, 0 acre-feet; on Oct 25 to Nov. 1, Dec. 17

Maximum inflow, — c.f.s. (averaged for 5-min. interval and adjusted for rainfall on pool surface) on —.

Averages: — water years, ( ); inflow, — acre-feet/year; outflow, — acre-feet/year; rainfall, — inches/year.

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Pool water budget, in acre-feet, water year October 1956 to September 1957.

	Oct	Nov.	Dec.	Calendar year 1956	Jan.	Feb.	Mar.	Apr.	May.	June	July	Aug.	Sept.	Water year 1957
Total Inflow 1/	0	.1	2.4	646	0	1.3	1.9	260	351	6.0	0	0	0.3	628
Total Outflow	0	0	0	684	0	0	0	134	376	2.6	9.8	7.5	0	530
Total Consumption	1.0	.1	1.1	119	1.3	2.1	2.3	5.0	23.7	24.5	30.1	24.3	7.8	123
†	-1.0	0	+6.3	-107	-1.1	-.4	+0.2	+133	-27.0	-16.6	-39.5	-31.7	-4.2	18.0
‡	1.0	.2	1.6	10.9	5.6	5.2	4.8	7.0	29.6	27.2	22.8	14.8	11.2	10.9
††	1.64	1.37	3.01	25.44	7.0	1.01	2.16	7.27	8.73	2.02	0.25	.07	3.66	31.89

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, — cfs)

Date	Time	Discharge	Date	Time	Discharge

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WATER BUDGET OF POOLS

ANNUAL SUMMARY

1957 WATER YEAR

____ Green Creek subwatershed No. 4 near Dublin, Tex. Drainage Area 1.74 sq. mi.

~~Continuous water stage recorder~~ staff gage: ratio ____. Date of last sediment survey none.

Maxima: gage height, 18.5 ft; outflow, 10 c.f.s.; surface area, 35.5 acres; contents, 137 acre-feet; on Apr. 26.

Minima: gage height, 8.4 ft; surface area, 0 acres; contents, 0 acre-feet; on Oct. 14.

Maximum inflow, ____ c.f.s. (averaged for 5-min. interval and adjusted for rainfall on pool surface) on ____.

Averages: ____ water years, ( ); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year.

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Pool water budget, in acre-feet, water year October 1956 to September 1957.

	Oct.	Nov.	Dec.	Calendar year 1956	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water year 1957
Total Inflow 1/	8.2	0.2	7.0	810	0.6	1.3	0.5	160	304	11.5	0.7	0	.3	494
Total Outflow	8.3	0	0	775	0	0	0	95.6	326	12.1	0	0	0	149
Total Consumption	1.4	1.0	1.3	76.9	1.6	2.1	1.5	3.3	12.4	12.4	12.4	9.0	6.4	64.8
†	-1.2	-.6	+6.1	7.3	-.7	-.4	-.4	+67.3	-22.3	-12.4	-11.2	-9.0	-3.8	11.6
‡	2.3	2.6	3.4	7.1	4.7	4.6	4.6	6.0	19.0	15.5	12.4	9.5	7.6	7.7
††	1.86	1.31	3.03	26.70	.70	.96	.96	7.95	8.35	.44	.51	0	3.66	30.91

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, ____ cfs)

Date	Time	Discharge	Date	Time	Discharge

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GEOLOGICAL SURVEY - TEXAS DISTRICT

WATER BUDGET OF POOLS

ANNUAL SUMMARY

1957 WATER YEAR

Green Creek subwatershed No. 5 near Dublin, Tex. Drainage Area _____ sq. mi.

~~Continuous water stage recorder~~ Staff gage: ratio _____. Date of last sediment survey none.

Maxima: gage height, 18.5 ft; outflow, 8.8 c.f.s; surface area, 37.0 acres; contents, 256 acre-feet; on May 25.

Minima: gage height, 9.8 ft; surface area, 13.7 acres; contents, 42.3 acre-feet; on Dec. 17.

Maximum inflow, _____ c.f.s (averaged for 5-min. interval and adjusted for rainfall on pool surface) on _____.

Averages: ____ water years, ( ); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year.

Pool water budget, in acre-feet, water year October 1956 to September 1957.

	Oct	Nov	Dec	Calendar year 1956	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Water year 1957
Total Inflow 1/	3.6	2.0	34.0	———	2.2	2.8	0.7	183	375	61.7	0.1	0	2.7	668
Total Outflow	5.6	0	0	———	0	0	0	66.4	372	90.6	8.0	0	0	543
Total Consumption	8.0	6.8	6.6	———	5.8	5.8	9.4	11.9	20.7	18.8	19.6	15.2	13.2	142
†	-7.9	-3.0	+31.0	———	-2.8	-1.6	-5.3	+118	+3.6	-43.6	-27.0	-15.0	-4.0	+42.4
‡	15.4	15.1	16.4	———	19.4	19.2	18.7	20.1	29.6	25.1	22.3	21.4	21.0	20.3
††	1.66	1.37	2.98	———	.70	1.01	2.17	7.24	8.31	1.98	.25	.09	3.71	31.47

1/ Inflow adjusted for rainfall on pool and pool losses
† Change in contents, in acre-feet
‡ Mean surface area, in acres
†† Weighted mean rainfall, in inches

Peak inflow - (base, ____ c.f.s)

Date	Time	Discharge	Date	Time	Discharge

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ANNUAL SUMMARY

1957 WATER YEAR

____ Green Creek subwatershed No. 6 near Dublin, Tex. Drainage Area 1.50 sq. mi.

~~Continuous water stage recorder~~ staff gage: ratio ____. Date of last sediment survey none.

Maxima: gage height, 15.1 ft; outflow, 1.0 c.f.s; surface area, 16.2 acres; contents, 70 acre-feet; on May 22.

Minima: gage height, 3.9 ft; surface area, .5 acres; contents, .5 acre-feet; on Apr. 23.

Maximum inflow, ____ c.f.s. (averaged for 5-min. interval and adjusted for rainfall on pool surface) on ____.

Averages: ___ water years, ( ); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year.

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Pool water budget, in acre-feet, water year October 1956 to September 1957.

	Oct	Nov.	Dec.	Calendar year 1956	Jan.	Feb.	Mar	Apr	May	June	July	Aug.	Sept.	Water year 1957
Total Inflow 1/	2.2	0.1	0.9		1.8	.1	0	34.0	35.3	0	0.2	0	0.6	75.2
Total Outflow	1.5	0	0		0	.6	.7	0	0	0	0	0	0	2.8
Total Consumption	4.6	1.7	1.4		1.2	.6	.6	.8	13.1	16.4	17.7	12.9	6.6	77.6
†	-3.5	-1.4	-.3		+.7	-1.0	-1.2	+34.0	+32.8	-15.8	-12.0	-12.9	-4.3	10.1
‡	2.7	1.8	1.6		1.8	1.3	.8	.9	15.4	14.8	12.2	8.4	6.6	5.7
††	1.86	1.31	3.03		.70	.96	2.14	7.95	8.35	.44	.51	0	3.01	30.26

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, ___ c.f.s)

Date	Time	Discharge	Date	Time	Discharge
—	2	—		2	—

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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY - TEXAS DISTRICT

WATER BUDGET OF POOLS

ANNUAL SUMMARY

1957 WATER YEAR

____ Green Creek subwatershed No 7 near Dublin, Tex. Drainage Area 3.25 sq. mi.

staff gage
~~Continuous water-stage recorder~~: ratio ____. Date of last sediment survey none.

Maxima: gage height, 15.3 ft; outflow, 5.4 c.f.s; surface area, 28.2 acres; contents, 156 acre-feet; on May 22.

Minima: gage height, 4.3 ft; surface area, 4.3 acres; contents, 14.1 acre-feet; on Dec. 18.

Maximum inflow, ____ c.f.s (averaged for 5-min. interval and adjusted for rainfall on pool surface) on ____.

Averages: ____ water years, ( ); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year.

Pool water budget, in acre-feet, water year October 1956 to September 1957.

	Oct	Nov.	Dec.	Calendar year 1956	Jan.	Feb.	Mar	Apr	May	June	July	Aug.	Sept.	Water year 1957
Total Inflow 1/	4.2	1.5	10.6	———	0	1.6	2.4	74.1	164	0.1	0	0	4.6	263
Total Outflow	3.0	0	0	———	0	0	1.8	0	113	.6	0	32.7	0	151
Total Consumption	4.0	2.0	2.2	———	2.6	2.1	2.3	4.3	17.2	20.0	28.5	23.4	9.8	118
†	-2.0	-.3	+9.6	———	-2.3	0	-.6	+74.2	+53.7	-18.3	28.0	-56.0	-2.2	27.8
‡	5.0	4.7	5.4	———	6.4	6.1	5.8	6.6	24.5	24.4	21.6	14.6	10.9	11.3
††	1.94	1.30	2.92	———	.75	.99	2.33	7.54	9.02	1.03	.30	.09	3.27	31.48

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, ____ c.f.s)

Date	Time	Discharge	Date	Time	Discharge

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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY - TEXAS DISTRICT

WATER BUDGET OF POOLS

ANNUAL SUMMARY

1957 WATER YEAR

Green Creek subwatershed No 8 near Dublin, Tex. Drainage Area 6.03 sq. mi.

~~Continuous water stage recorder~~ staff gage; ratio ——. Date of last sediment survey none.

Maxima: gage height, 21.9 ft; outflow, 34 c.f.s; surface area, 53.8 acres; contents, 483 acre-feet; on May 22.

Minima: gage height, 1.7 ft; surface area, .8 acres; contents, 64.4 acre-feet; on Dec. 17.

Maximum inflow, —— c.f.s. (averaged for 5-min. interval and adjusted for rainfall on pool surface) on ——.

Averages: —— water years, ( ); inflow, —— acre-feet/year; outflow, —— acre-feet/year; rainfall, —— inches/year.

Pool water budget, in acre-feet, water year October 1956 to September 1957.

	Oct	Nov	Dec.	Calendar year 1956	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water year 1957
Total Inflow 1/	——	——	4.9	——	1.0	0	1.3	145	1,190	24.2	0.6	0	0	——
Total Outflow	——	——	0	——	0	0	0	12.9	1,170	54.0	0	0	0	——
Total Consumption	——	——	1.0	——	.7	.9	1.1	2.1	26.9	18.6	21.0	19.4	11.1	——
†	——	——	+4.2	——	+.4	-.7	+.7	+135	+27.6	-45.6	-20.0	-19.0	-6.0	——
‡	——	——	2.6	——	2.7	2.7	2.7	4.9	44.9	26.6	22.1	17.6	15.4	——
††	——	——	2.89	——	.73	1.00	2.27	7.27	9.11	1.21	.26	.24	2.97	——

1/ Inflow adjusted for rainfall on pool and pool losses
† Change in contents, in acre-feet
‡ Mean surface area, in acres
†† Weighted mean rainfall, in inches

Peak inflow - (base, —— c.f.s)

Date	Time	Discharge	Date	Time	Discharge

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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY - TEXAS DISTRICT

WATER BUDGET OF POOLS

ANNUAL SUMMARY

1958 WATER YEAR

8-940 Green Creek subwatershed No 1 near Dublin, Tex. Drainage Area 3.18 sq mi.

Continuous water-stage recorder: ratio 1.6. Date of last sediment survey 4-25-55.

Maxima: gage height, 12.27 ft; outflow, 139 c.f.s.; surface area, 49.9 acres; contents, 306 acre-feet; on July 22.

Minima: gage height, 7.50 ft; surface area, 24.2 acres; contents, 128 acre-feet; on Oct. 12.

Maximum inflow, 748 c.f.s. (averaged for 5-min. interval and adjusted for rainfall on pool surface) on July 22, 1958.

Averages: ——— water years, (———); inflow, ——— acre-feet/year; outflow, ——— acre-feet/year; rainfall, ——— inches/year.

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Pool water budget, in acre-feet, water year October 1957 to September 1958.

	Oct	Nov.	Dec.	Calendar year 1957	Jan.	Feb.	Mar	Apr	May	June	July	Aug	Sept	Water year 1958
Total Inflow 1/	55.7	107	3.3	1,190	5.2	.5	20.7	53.2	59.9	.4	115	.3	9.6	431
Total Outflow	0	46.2	3.1	918	3.1	44	3.1	17.9	75.2	0	58.1	0	0	211
Total Consumption	20.8	24.2	16.8	295	9.8	7.7	14.4	22.2	23.1	35.3	41.9	41.4	31.0	288
†	+45.5	+55.3	-11.2	98.3	- .8	-6.9	+11.7	+30.2	-31.0	-28.0	+32.0	-37.3	- 9.4	50.1
‡	28.9	40.3	40.0	387	39.1	38.6	40.0	40.4	40.5	37.2	38.1	37.2	34.4	38.6
††	4.82	5.65	1.64	40.29	2.09	1.47	2.56	5.04	2.11	2.23	5.34	1.09	4.17	38.21

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, 100 c.f.s.)

Date	Time	Discharge	Date	Time	Discharge
July 22, 1958	0330	748			

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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY - TEXAS DISTRICT

WATER BUDGET OF POOLS

ANNUAL SUMMARY

1958 WATER YEAR

Green Creek subwatershed No 2 near Dublin, Tex. Drainage Area 2.65 sq. mi.

staff gage
~~Continuous water-stage recorder~~: ratio ____. Date of last sediment survey none.

Maxima: gage height, 12.2 ft; outflow, 0* c.f.s.; surface area, 16.3 acres; contents, 47.5 acre-feet; on July 22.

Minima: gage height, 6.4 ft; surface area, 2.9 acres; contents, 3.2 acre-feet; on Sept 7.

Maximum inflow, ____ c.f.s. (averaged for 5-min. interval and adjusted for rainfall on pool surface) on ____.

Averages: ____ water years, (____); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year.

Pool water budget, in acre-feet, water year October 1957 to September 1958.

	Oct	Nov.	Dec.	Calendar year 1957	Jan.	Feb.	Mar	Apr	May	June	July	Aug.	Sept	Water year 1958
Total Inflow 1/	43.5	81.3	21.4	700	36.2	17.7	35.9	30.4	4	1.0	31.9	2.3	9.0	311
Total Outflow	24.8	78.1	22.4	690	34.5	16.3	56.1	1.8	6.2	0	8.9	24.6	2.8	276
Total Consumption	4.3	5.6	2.7	84.4	2.8	2.7	3.0	3.8	6.9	9.2	12.5	8.1	2.5	64.1
†	+18.1	+ 3.4	-2.3	-5.5	+1.1	0	-20.8	+28.3	-10.7	-6.6	+14.7	-30.0	+5.3	+ 0.5
‡	8.6	12.5	11.3	10.5	11.7	11.2	8.5	7.6	11.5	9.4	12.3	6.6	4.6	9.6
††	4.77	5.52	1.57	39.32	2.13	1.47	2.46	4.75	2.00	2.16	4.73	.92	4.09	36.57

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.
* Maxima outflow 3.9 cfs Nov. 3 at gage height 11.8 ft, from flow through window. Window closed March 27, 1958.

Peak inflow - (base, ____ cfs)

Date	Time	Discharge	Date	Time	Discharge
2			2		

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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY - TEXAS DISTRICT

WATER BUDGET OF POOLS

ANNUAL SUMMARY

1958 WATER YEAR

____ . Green Creek subwatershed No 3 near Dublin, Tex. Drainage Area 1.53 sq. mi.

Staff gage
~~Continuous water-stage recorder~~ ratio ____. Date of last sediment survey none.

Maxima: gage height, 15.4 ft; outflow, 5.2 c.f.s.; surface area, 29.6 acres; contents, 119 acre-feet; on Apr. 27.

Minima: gage height, 10.0 ft; surface area, 10.0 acres; contents, 17.0 acre-feet; on Oct. 12.

Maximum inflow, ____ c.f.s. (averaged for 5-min. interval and adjusted for rainfall on pool surface) on ____.

Averages: ____ water years, (____); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year.

Pool water budget, in acre-feet, water year October 1957 to September 1958.

	Oct	Nov.	Dec.	Calendar year 1957	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept	Water year 1958
Total Inflow 1/	26.8	61.1	2.7	711	7.6	1.7	10.8	49.7	18.6	.1	47.3	2.1	7.3	236
Total Outflow	0	.8	0	521	0	0	11.5	34.3	22.8	0	7.1	0	0	76.5
Total Consumption	6.7	9.5	9.3	147	9.4	6.8	6.1	12.6	16.4	21.7	28.4	27.5	17.0	17.
†	+25.6	+62.1	-3.3	+97.1	+3.3	-1.7	-1.6	+12.6	-16.4	-17.4	+19.6	-24.2	-2.2	+ 50.7
‡	15.0	27.2	27.4	16.4	27.7	27.4	27.9	28.1	27.8	25.2	27.0	25.0	23.0	25.7
††	4.68	5.26	1.44	37.25	2.21	1.48	2.25	4.15	1.77	2.03	3.48	.57	3.93	33.25

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, ____ c.f.s.)

Date	Time	Discharge	Date	Time	Discharge

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GEOLOGICAL SURVEY - TEXAS DISTRICT

WATER BUDGET OF POOLS

ANNUAL SUMMARY

1958 WATER YEAR

____ . Green Creek subwatershed No 4 near Dublin, Tex. Drainage Area 1.74 sq. mi.

staff gage
~~Continuous water-stage recorder~~: ratio ____. Date of last sediment survey none.

Maxima: gage height, 15.1 ft; outflow, 1.1 c.f.s.; surface area, 17.0 acres; contents, 49.3 acre-feet; on Nov. 4, May 1.

Minima: gage height, 8.8 ft; surface area, 1.6 acres; contents, .6 acre-feet; on Sept. 11.

Maximum inflow, ____ c.f.s. (averaged for 5-min. interval and adjusted for rainfall on pool surface) on ____.

Averages: ____ water years, (____); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year.

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Pool water budget, in acre-feet, water year October 1957 to September 1958.

	Oct	Nov.	Dec.	Calendar year 1957	Jan.	Feb.	Mar.	Apr	May	June	July	Aug.	Sept.	Water year 1958
Total Inflow 1/	8.2	30.0	1.7	538	4.1	.4	5.8	7.3	.1	.6	8.8	.3	.5	67.8
Total Outflow	0	4.8	0	484	0	0	0	.6	4.6	.7	0	1.6	1.4	52.7
Total Consumption	4.3	6.8	7.2	79.4	5.8	3.6	8.4	8.3	4.3	2.8	4.2	4.8	.8	6.3
†	+6.8	+25.4	-3.4	+36.1	+1.0	-1.0	+0.3	+4.3	-44.2	-2.4	+5.9	-5.7	-1.1	-14.1
‡	8.2	15.9	15.9	10.3	15.7	15.7	16.1	15.9	6.2	3.8	4.2	4.4	2.1	12.4
††	4.26	5.66	1.61	36.24	2.03	1.68	2.21	4.39	1.54	1.66	3.76	1.09	3.00	33.55

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, — cfs)

Date	Time	Discharge	Date	Time	Discharge
2			2		

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GEOLOGICAL SURVEY - TEXAS DISTRICT

WATER BUDGET OF POOLS

ANNUAL SUMMARY

1958 WATER YEAR

____ Green Creek subwatershed No 5 near Dublin, Tex. Drainage Area 2.09 sq. mi.

staff gage
~~Continuous water-stage recorder~~: ratio —. Date of last sediment survey none.

Maxima: gage height, 15.8 ft; outflow, 6.8 c.f.s.; surface area, 28.4 acres; contents, 168 acre-feet; on May 1.

Minima: gage height, 12.6 ft; surface area, 20.6 acres; contents, 92.0 acre-feet; on Oct. 12.

Maximum inflow, ____ c.f.s. (averaged for 5-min. interval and adjusted for rainfall on pool surface) on ____.

Averages: ____ water years, (____); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year.

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Pool water budget, in acre-feet, water year October 1957 to September 1958.

	Oct	Nov.	Dec.	Calendar year 1957	Jan.	Feb.	Mar.	Apr	May	June	July	Aug.	Sept.	Water year 1958
Total Inflow 1/	14.9	33.8	7.4	684	4.8	5.2	7.1	34.2	25.2	1.3	5.6	0	4.8	142
Total Outflow	0	.8	0	538	0	0	1.2	12.3	38.7	0	0	0	0	53.1
Total Consumption	8.1	10.5	12.1	151	7.7	6.7	13.0	12.0	13.2	22.3	21.9	15.0	15.2	131
†	+5.0	+32.8	- 1.8	+ 68.3	+1.5	+1.5	- 3.0	+18.0	-22.8	-12.2	-10.0	-14.7	- 3.6	- 46
‡	21.3	23.8	23.8	22.1	24.1	23.9	24.3	24.0	24.5	22.3	21.9	21.2	22.8	23.0
††	4.68	5.33	1.45	36.92	2.21	1.79	2.24	4.26	1.78	2.24	3.39	.62	3.92	33.32

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, — cfs)

Date	Time	Discharge	Date	Time	Discharge
?			?		

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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY - TEXAS DISTRICT

WATER BUDGET OF POOLS

ANNUAL SUMMARY

1958 WATER YEAR

Green Creek subwatershed No 6 near Dublin, Tex. Drainage Area 1.50 sq. mi.

Staff gage ~~Continuous water stage recorder~~: ratio ____. Date of last sediment survey none.

Maxima: gage height, 14.2 ft; outflow, 0 c.f.s.; surface area, 14.4 acres; contents, 56.0 acre-feet; on May 3.

Minima: gage height, 9.8 ft; surface area, 5.8 acres; contents, 15.8 acre-feet; on Nov. 2.

Maximum inflow, ____ c.f.s. (averaged for 5-min. interval and adjusted for rainfall on pool surface) on ____.

Averages: ____ water years, (____); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year.

Pool water budget, in acre-feet, water year October 1957 to September 1958.

	Oct.	Nov.	Dec.	Calendar year 1957	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water year 1958
Total Inflow 1/	1.4	7.5	.9	81.8	1.2	1.2	7.1	20.4	19.1	1.1	1.8	1.8	3.4	66.7
Total Outflow	0	0	0	1.3	0	0	0	0	0	0	0	0	0	0
Total Consumption	5.4	5.2	4.5	85.0	2.8	2.5	8.4	9.0	4.8	15.9	12.8	9.9	7.7	69.7
†	-1.8	+5.5	-2.7	16.3	-0.5	-0.5	-0.1	+13.8	+16.0	-13.2	-8.0	-7.1	-2.5	-1.1
‡	6.0	6.9	6.6	6.8	6.4	6.2	6.4	6.2	6.9	11.8	9.0	7.1	6.1	7.7
††	4.26	5.66	1.61	35.59	2.03	1.68	2.21	4.39	1.54	1.66	3.76	1.67	3.66	31.13

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, ____ c.f.s.)

Date	Time	Discharge	Date	Time	Discharge

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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY - TEXAS DISTRICT

WATER BUDGET OF POOLS

ANNUAL SUMMARY

1958 WATER YEAR

____ Green Creek subwatershed No 7 near Dublin, Tex. Drainage Area 3.25 sq. mi.

~~Continuous water-stage recorder~~ Staff gage: ratio ____. Date of last sediment survey none.

Maxima: gage height, 15.2 ft; outflow, 2.9 c.f.s.; surface area, 27.8 acres; contents, 153 acre-feet; on May 1.

Minima: gage height, 8.7 ft; surface area, 10.4 acres; contents, 42.8 acre-feet; on Oct. 12.

Maximum inflow, ____ c.f.s. (averaged for 5-min. interval and adjusted for rainfall on pool surface) on ____.

Averages: ____ water years, (____); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year.

Pool water budget, in acre-feet, water year October 1957 to September 1958.

	Oct	Nov.	Dec.	Calendar year 1957	Jan.	Feb.	Mar	Apr	May	June	July	Aug.	Sept	Water year 1958
Total Inflow 1/	15.4	47.6	2.0	312	9.7	7.2	7.2	29.8	13.4	2.5	5.4	.2	5.6	146
Total Outflow	0	0	0	148	0	0	0	0	8.5	10.9	3.6	25.2	6.6	54.8
Total Consumption	5.0	6.3	8.0	130	7.6	11.2	7.5	8.2	15.8	19.1	24.1	15.8	9.8	35
†	+15.1	+49.9	- 3.4	82.1	+ 5.6	- 1.0	+ 3.7	+ 30.3	- 7.0	-23.0	-14.7	-39.1	- 7.4	+ 9.4
‡	12.2	19.0	19.9	14.3	20.5	20.4	21.4	21.6	26.4	23.0	20.3	14.8	12.3	19.3
††	4.77	5.25	1.56	37.40	1.99	1.77	2.24	4.68	1.71	2.43	2.68	1.50	3.36	34.47

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, ____ c.f.s.)

Date	Time	Discharge	Date	Time	Discharge

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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY - TEXAS DISTRICT

WATER BUDGET OF POOLS

ANNUAL SUMMARY

1958 WATER YEAR

____ Green Creek subwatershed No. 8 near Dublin, Tex. Drainage Area 6.03 sq. mi.

staff gage
~~Continuous water stage recorder~~: ratio ____. Date of last sediment survey none.

Maxima: gage height, 17.9 ft; outflow, 21 c.f.s; surface area, 43.5 acres; contents, 290 acre-feet; on May 1.

Minima: gage height, 12.3 ft; surface area, 14.6 acres; contents, 138 acre-feet; on Oct. 12.

Maximum inflow, ____ c.f.s (averaged for 5-min. interval and adjusted for rainfall on pool surface) on ____.

Averages: ____ water years, (____); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year.

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Pool water budget, in acre-feet, water year October 1957 to September 1958.

	Oct	Nov.	Dec.	Calendar year 1957	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water year 1958
Total Inflow 1/	40.8	11.6	6.5	1,530	16.2	10.0	23.9	15.8	15.7	22.4	6.4	1.3	6.2	56.5
Total Outflow	0	10.8	1.2	1,350	9.5	3.2	20.8	8.27	2.20	2.7	0	1.8	3.2	45.3
Total Consumption	6.4	12.0	12.8	133	10.4	7.9	10.6	11.5	20.4	24.1	25.7	19.5	12.1	17.7
†	+40.0	+1.0	-4.0	+1.9	+1.0	+2.5	-2.7	+7.52	-7.80	0	-1.40	-1.80	-8.0	+5.6
‡	19.8	21.8	20.7	17.7	26.1	26.2	26.8	27.4	29.2	24.8	23.8	18.9	16.4	24.3
††	4.62	6.04	1.57	37.29	2.11	1.64	2.12	4.71	.83	2.0	2.58	.36	3.70	34.38

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, ____ c.f.s)

Date	Time	Discharge	Date	Time	Discharge

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GEOLOGICAL SURVEY - TEXAS DISTRICT

WATER BUDGET OF POOLS

ANNUAL SUMMARY

1959 WATER YEAR

8-940. Green Creek subwatershed No. 1 near Dublin, Tex. Drainage Area 3.18 sq. mi.

Continuous water-stage recorder: ratio 1:6. Date of last sediment survey April 9, 1962.

Maxima: gage height, 11.88 ft; outflow, 135 c.f.s.; surface area, 45.7 acres; contents, 278 acre-feet; on June 26.

Minima: gage height, 5.81 ft; surface area, 19.0 acres; contents, 91.1 acre-feet; on June 21.

Maximum inflow, 498 c.f.s. (averaged for 5-min. interval and adjusted for rainfall on pool surface) on June 26, 1959.

Averages: ——— water years, (———); inflow, ——— acre-feet/year; outflow, ——— acre-feet/year; rainfall, ——— inches/year.

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Pool water budget, in acre-feet, water year October 1958 to September 1959.

	Oct	Nov.	Dec.	Calendar year 1958	Jan.	Feb.	Mar.	Apr	May	June	July	Aug.	Sept.	Water year 1959
Total Inflow 1/	.1	3.6	.2	269	0	1.2	.1	12.1	.1	1.9	14.4	.6	17.1	240
Total Outflow	0	3.0	0	165	0	0	0	7.2	0	46.2	0	0	0	56.4
Total Consumption	14.2	14.2	8.8	264	7.1	6.9	20.2	18.4	20.6	24.2	29.8	39.0	30.4	244
†	-8.7	-10.2	-6.2	-64.6	-7.1	-3.8	-19.3	-9.5	-16.9	+13.8	-9.7	-31.0	-3.9	+1.7
‡	32.3	30.9	29.4	36.5	28.3	27.6	25.6	23.6	21.7	22.6	29.8	37.2	33.8	29.4
††	1.98	1.34	0.97	30.39	0	.82	.35	2.01	1.98	8.12	4.80	2.46	3.34	28.1

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, 100 c.f.s.)

Date	Time	Discharge	Date	Time	Discharge
June 26, 1959	0930	498			

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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY - TEXAS DISTRICT

WATER BUDGET OF POOLS

ANNUAL SUMMARY

1959 WATER YEAR

Green Creek subwatershed No. 2 near Dublin, Tex. Drainage Area 2.65 sq. mi.

~~Continuous water-stage recorder~~ Staff gage; ratio ____. Date of last sediment survey none.

Maxima: gage height, 11.3 ft; outflow, 0 c.f.s.; surface area, 12.7 acres; contents, 346 acre-feet; on June 27.

Minima: gage height, 6.1 ft; surface area, 2.6 acres; contents, 2.3 acre-feet; on June 22.

Maximum inflow, ____ c.f.s. (averaged for 5-min. interval and adjusted for rainfall on pool surface) on ____.

Averages: ____ water years, (____); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year.

Pool water budget, in acre-feet, water year October 1958 to September 1959.

	Oct	Nov.	Dec.	Calendar year 1958	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water year 1959
Total Inflow 1/	1.6	0	0	166	0	.5	.2	.5	.9	29.8	13.3	.1	2.4	49.3
Total Outflow	0	0	0	151	0	0	0	0	0	5.6	16.0	4.8	0	26.4
Total Consumption	1.3	2.1	1.9	56.8	1.3	1.6	2.1	1.9	2.1	3.1	10.7	4.4	3.0	35.5
†	+1.0	-1.5	-1.5	-20.7	-1.3	-.8	-1.8	-.9	-.6	+23.2	-11.1	-8.4	+.4	-3.3
‡	5.2	5.2	4.8	8.2	4.4	4.1	3.9	3.5	3.1	3.5	6.8	4.4	3.8	4.4
††	1.80	1.39	1.04	28.94	0	.83	.36	1.92	2.10	7.28	4.72	2.22	3.47	27.13

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, ____ cfs)

Date	Time	Discharge	Date	Time	Discharge

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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY - TEXAS DISTRICT

WATER BUDGET OF POOLS

ANNUAL SUMMARY

1959 WATER YEAR

_____ . Green Creek subwatershed No. 3 near Dublin, Tex. Drainage Area 1.53 sq. mi.

staff gage
~~Continuous water stage recorder~~: ratio _____. Date of last sediment survey none.

Maxima: gage height, 13.7 ft; outflow, 0 c.f.s.; surface area, 22.8 acres; contents, 75.4 acre-feet; on Oct. 1.

Minima: gage height, 11.1 ft; surface area, 13.3 acres; contents, 29.5 acre-feet; on June 22.

Maximum inflow, _____ c.f.s. (averaged for 5-min. interval and adjusted for rainfall on pool surface) on _____.

Averages: ____ water years, (_____); inflow, _____ acre-feet/year; outflow, _____ acre-feet/year; rainfall, _____ inches/year.

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Pool water budget, in acre-feet, water year October 1958 to September 1959.

	Oct	Nov.	Dec.	Calendar year 1958	Jan.	Feb.	Mar.	Apr.	May.	June	July	Aug.	Sept	Water year 1959
Total Inflow 1/	2.6	0	3.3	151	0	.1	1.0	.6	1.7	20.9	19.2	27.2	9.7	80.4
Total Outflow	0	0	0	75.7	0	0	0	0	0	3.9	0	0	0	3.9
Total Consumption	11.3	6.6	9.3	173	4.0	3.5	10.6	8.0	7.6	9.1	22.2	16.5	12.2	93.7
†	-6.0	-4.0	-4.6	-42.6	-4.6	-2.0	-9.0	-5.0	-3.0	+5.0	+4.0	+3.6	+2.6	-3.6
‡	22.2	21.2	20.7	25.3	19.8	19.2	19.0	16.4	15.3	15.2	18.1	17.4	15.3	18.2
††	1.45	1.48	1.17	25.97	0	.84	.39	1.74	2.34	5.59	4.57	1.74	3.72	25.43

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, — c.f.s.)

Date	Time	Discharge	Date	Time	Discharge

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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY - TEXAS DISTRICT

WATER BUDGET OF POOLS

ANNUAL SUMMARY

1959 WATER YEAR

_____ Green Creek subwatershed No 4 near Dublin, Tex. Drainage Area 1.74 sq. mi.

Staff gage
~~Continuous water stage recorder~~: ratio _____. Date of last sediment survey none.

Maxima: gage height, 12.9 ft; outflow, 0 c.f.s; surface area, 9.2 acres; contents, 21.4 acre-feet; on Jul 4 27.

Minima: gage height, 6.6 ft; surface area, 0 acres; contents, 0 acre-feet; on June 21.

Maximum inflow, _____ c.f.s. (averaged for 5-min. interval and adjusted for rainfall on pool surface) on _____.

Averages: ____ water years, (_____); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year.

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Pool water budget, in acre-feet, water year October 1958 to September 1959.

	Oct	Nov	Dec	Calendar year 1958	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Water year 1959
Total Inflow 1/	0	3.0	.7	31.6	0	0	0	0	0	14.7	13.8	.1	1.7	34.0
Total Outflow	0	1.3	.6	47.8	0	0	0	0	0	0	0	0	1.6	3.5
Total Consumption	1.3	.8	.8	45.9	0	0	0	0	0	0	11.7	6.5	3.5	27.6
†	-1.1	+1.1	-.5	-43.4	0	0	0	0	0	+5.6	+5.8	-5.0	-2.2	+3.7
‡	1.8	1.8	1.6	7.4	0	0	0	0	0	0	13.9	7.8	7.5	33.7
††	1.20	1.49	1.33	25.94	0	.94	.40	1.75	1.99	6.79	5.67	2.23	2.10	25.77

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, — c.f.s)

Date	Time	Discharge	Date	Time	Discharge

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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY - TEXAS DISTRICT

WATER BUDGET OF POOLS

ANNUAL SUMMARY

1959 WATER YEAR

Green Creek subwatershed No. 5 near Dublin, Tex. Drainage Area 2.09 sq. mi.

~~Continuous water-stage recorder~~ staff gage: ratio ____. Date of last sediment survey none.

Maxima: gage height, 12.7 ft; outflow, 0 c.f.s; surface area, 20.7 acres; contents, 94.0 acre-feet; on Oct. 1.

Minima: gage height, 9.8 ft; surface area, 13.2 acres; contents, 42.2 acre-feet; on Sept. 30.

Maximum inflow, ____ c.f.s. (averaged for 5-min. interval and adjusted for rainfall on pool surface) on ____.

Averages: ____ water years, (____); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year.

Pool water budget, in acre-feet, water year October 1958 to September 1959.

	Oct.	Nov.	Dec.	Calendar year 1958	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water year 1959
Total Inflow 1/	0	0	1.8	90.0	0	.1	1.2	1.2	2.7	3.7	5.1	1.7	1.9	17.4
Total Outflow	0	0	0	52.2	0	0	0	0	0	0	1.2	0	2.1	3.3
Total Consumption	8.4	6.5	8.0	152	4.0	3.5	9.6	8.8	9.1	10.3	10.2	11.9	9.0	79.3
†	-6.0	-4.0	-4.0	-64.0	-4.0	-2.0	-8.0	-5.0	-3.0	+1.0	0	-8.0	-4.0	-42.2
‡	20.5	20.3	20.1	20.3	19.8	19.5	18.8	17.6	16.6	16.2	16.4	15.9	14.5	18.1
††	1.41	1.47	1.17	25.94	0	.86	.39	1.77	2.31	5.56	4.59	1.74	3.67	24.94

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, ____ c.f.s)

Date	Time	Discharge	Date	Time	Discharge

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GEOLOGICAL SURVEY - TEXAS DISTRICT

WATER BUDGET OF POOLS

ANNUAL SUMMARY

1959 WATER YEAR

_____ : Green Creek subwatershed No. 6 near Dublin, Tex. Drainage Area 1.50 sq. mi.

~~Continuous water-stage recorder~~ staff gage: ratio _____. Date of last sediment survey none.

Maxima: gage height, 9.9 ft; outflow, 0 c.f.s; surface area, 5.9 acres; contents, 16.3 acre-feet; on Oct. 1.

Minima: gage height, 3.4 ft; surface area, .3 acres; contents, .2 acre-feet; on June 22.

Maximum inflow, _____ c.f.s (averaged for 5-min. interval and adjusted for rainfall on pool surface) on _____.

Averages: ___ water years, (____); inflow, ___ acre-feet/year; outflow, ___ acre-feet/year; rainfall, ___ inches/year.

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Pool water budget, in acre-feet, water year October 1958 to September 1959.

	Oct	Nov.	Dec.	Calendar year 1958	Jan.	Feb.	Mar.	Apr	May	June	July	Aug.	Sept.	Water year 1959
Total Inflow 1/	.3	.3	.5	58.2	0	0	0	.2	.2	8.5	5.3	.6	.6	16.5
Total Outflow	1.6	0	0	1.6	.4	0	0	.6	1.0	0	0	0	0	3.6
Total Consumption	2.6	3.6	3.3	83.3	1.9	1.0	1.9	1.2	.7	.8	6.8	4.9	2.9	31.6
†	-3.3	-2.7	-2.4	-10.5	-2.3	-.8	-1.8	-1.4	-1.4	+8.3	+.3	-3.8	-2.0	-13.3
‡	5.6	4.8	4.1	6.7	3.4	2.7	2.1	1.3	.8	.6	3.8	3.2	2.0	2.9
††	1.20	1.49	1.23	26.52	0	.94	.40	1.75	1.89	6.79	5.67	2.23	2.18	25.77

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, ___ c.f.s)

Date	Time	Discharge	Date	Time	Discharge

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GEOLOGICAL SURVEY - TEXAS DISTRICT

WATER BUDGET OF POOLS

ANNUAL SUMMARY

1959 WATER YEAR

Green Creek subwatershed No 7 near Dublin, Tex. Drainage Area 3.25 sq mi.
Staff gage
~~Continuous water-stage recorder~~: ratio ____. Date of last sediment survey none.

Maxima: gage height, 11.5 ft; outflow, 0 c.f.s; surface area, 15.0 acres; contents, 27.8 acre-feet; on July 27.

Minima: gage height, 6.3 ft; surface area, 6.3 acres; contents, 23.2 acre-feet; on June 22.

Maximum inflow, ____ c.f.s (averaged for 5-min. interval and adjusted for rainfall on pool surface) on ____.

Averages: ____ water years, (____); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year.

Pool water budget, in acre-feet, water year October 1958 to September 1959.

	Oct	Nov	Dec	Calendar year 1958	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Water year 1959
Total Inflow 1/	0	.1	.3	84.4	0	1.3	0	.7	0	6.9	49.8	1.9	2.0	63.0
Total Outflow	0	0	0	54.8	0	0	0	0	0	0	0	24.8	0	24.9
Total Consumption	6.9	4.8	4.4	132	3.0	3.1	6.3	4.3	3.8	5.9	10.4	14.5	9.8	76.2
†	-5.7	-3.3	-3.0	-64.6	-3.0	-.9	-6.1	-2.4	-2.9	+45.5	+45.3	-32.5	-5.0	15.0
‡	14.9	11.1	10.5	17.8	10.2	9.5	8.7	7.6	6.9	6.8	11.2	12.6	9.9	9.7
††	1.21	1.48	1.26	26.31	0	1.11	.31	1.94	1.02	5.89	5.92	2.08	2.28	27.74

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, ____ c.f.s)

Date	Time	Discharge	Date	Time	Discharge

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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY - TEXAS DISTRICT

WATER BUDGET OF POOLS

ANNUAL SUMMARY

1959 WATER YEAR

____ : Green Creek subwatershed No 8 near Dublin, Tex. Drainage Area 6.03 sq. mi.

~~Continuous water-stage recorder~~ Staff gage: ratio ____. Date of last sediment survey none.

Maxima: gage height, 12.8 ft; outflow, 0 c.f.s; surface area, 15.6 acres; contents, 146 acre-feet; on Oct. 1.

Minima: gage height, 9.8 ft; surface area, 9.7 acres; contents, 108 acre-feet; on June 22, July 16

Maximum inflow, ____ c.f.s (averaged for 5-min. interval and adjusted for rainfall on pool surface) on ____.

Averages: ____ water years, (____); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year.

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Pool water budget, in acre-feet, water year October 1958 to September 1959.

	Oct	Nov.	Dec.	Calendar year 1958	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water year 1959
Total Inflow 1/	1.3	.5	.1	4.03	0	.8	.4	0	0	5.5	32.2	.3	.0	4.1
Total Outflow	0	0	6.4	3.50	1.4	0	0	0	0	0	4.2	5.4	0	17.7
Total Consumption	7.5	3.3	4.2	16.1	2.6	2.6	5.7	6.0	5.1	8.3	8.5	10.7	8.3	73.0
†	-5.0	-6.0	-9.0	-57.0	-4.0	-.2	-5.0	-4.0	-4.0	+2.0	+25.2	-14.6	-5.0	-25.2
‡	15.3	14.9	14.6	22.0	13.2	13.0	12.4	11.7	11.0	10.4	12.1	13.5	12.2	12.0
††	1.03	1.45	1.22	25.85	0	1.07	.4	2.02	1.96	5.20	5.07	1.92	2.72	21.5

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, — c.f.s)

Date	Time	Discharge	Date	Time	Discharge

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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY - TEXAS DISTRICT

WATER BUDGET OF POOLS

ANNUAL SUMMARY

1960 WATER YEAR

8-940. Green Creek subwatershed No. 1 near Dublin, Tex. Drainage Area 3.18 sq. mi.

Continuous water-stage recorder: ratio 1:6. Date of last sediment survey April 9, 1962.

Maxima: gage height, 18.33 ft; outflow, 16.2 c.f.s.; surface area, 98.0 acres; contents, 743 acre-feet; on Oct. 4.

Minima: gage height, 7.86 ft; surface area, 25.5 acres; contents, 137 acre-feet; on Sept. 30.

Maximum inflow, 4,540 c.f.s. (averaged for 5-min. interval and adjusted for rainfall on pool surface) on October 3, 1959.

Averages: 5 water years, (1955-60); inflow, 739 acre-feet/year; outflow, 584 acre-feet/year; rainfall, 30.95 inches/year.

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Pool water budget, in acre-feet, water year October 1959 to September 1960.

	Oct.	Nov.	Dec.	Calendar year 1959	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water year 1960
Total Inflow 1/	50.1	52.9	17.7	808	71.1	13.6	10.0	.1	55.0	2.0	19.9	.2	0	76.3
Total Outflow	50.2	59.5	.2	1,150	73.0	7.3	0	0	26.0	15.2	13.7	3.1	2.0	71.2
Total Consumption	24.8	8.9	18.0	258	10.4	17.2	19.0	20.5	26.0	30.2	34.7	29.0	20.1	262
†	+47.1	-10.6	+8.9	+82.2	-4.1	-3.2	-5.2	-15.5	+2.3	-22.7	-21.6	-27.3	-17.7	-59.0
‡	51.8	40.6	40.1	33.2	41.2	40.5	39.6	38.6	40.0	39.1	34.7	29.9	26.8	39.0
††	10.28	1.40	2.80	38.36	2.15	1.39	1.45	1.55	2.77	2.38	2.56	1.85	2.03	32.36

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, 100 cfs)

Date	Time	Discharge	Date	Time	Discharge
Oct. 3, 1959	2230	4,540			

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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY - TEXAS DISTRICT

WATER BUDGET OF POOLS

ANNUAL SUMMARY

1960 WATER YEAR

____ Green Creek subwatershed No. 2 near Dublin, Tex. Drainage Area 2.65 sq. mi.

Staff gage
~~Continuous water stage recorder~~: ratio ____. Date of last sediment survey none.

Maxima: gage height, 19.7 ft; outflow, 16 cfs; surface area, 60.7 acres; contents, 326 acre-feet; on Oct. 4.

Minima: gage height, 7.7 ft; surface area, 4.2 acres; contents, 7.5 acre-feet; on Sept. 30.

Maximum inflow, ____ c.f.s. (averaged for 5-min. interval and adjusted for rainfall on pool surface) on ____.

Averages: ____ water years, (____); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year.

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Pool water budget, in acre-feet, water year October 1959 to September 1960.

	Oct	Nov	Dec	Calendar year 1959	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Water year 1960
Total Inflow 1/	346	0	17.7	411	123	11.2	.2	5.4	75.8	2.9	5.1	4.3	1.3	593
Total Outflow	240	.4	0	267	142	15.6	0	6	44.6	15.9	19.7	15.3	8.0	506
Total Consumption	22.5	14.7	11.0	79.4	13.5	6.2	7.2	12.3	17.2	17.2	15.5	9.6	2.9	156
†	+103	-12.6	+12.0	+102	-27.6	-7.0	-5.0	-4.6	+26.0	-26.5	-27.6	-19.0	-8.5	-.5
‡	30.0	29.4	27.6	16.+	35.0	25.6	22.5	26.5	30.5	23.2	16.3	9.1	4.9	22.
††	10.02	1.30	3.08	37.30	2.20	1.39	1.1	1.68	2.73	2.23	2.38	1.71	1.76	31.35

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, ____ cfs)

Date	Time	Discharge	Date	Time	Discharge

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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY - TEXAS DISTRICT

WATER BUDGET OF POOLS

ANNUAL SUMMARY

1960 WATER YEAR

_____ Green Creek subwatershed No. 3 near Dublin, Tex. Drainage Area 1.53 sq. mi.

staff gage
~~Continuous water-stage recorder~~: ratio _____. Date of last sediment survey none

Maxima: gage height, 20.8 ft; outflow, 26 c.f.s.; surface area, 54.5 acres; contents, 344 acre-feet; on Oct. 4

Minima: gage height, 12.3 ft; surface area, 17.2 acres; contents, 97.7 acre-feet; on Oct. 1, Sept. 30

Maximum inflow, _____ c.f.s. (averaged for 5-min. interval and adjusted for rainfall on pool surface) on _____

Averages: ___ water years, (_____); inflow, _____ acre-feet/year; outflow, _____ acre-feet/year; rainfall, _____ inches/year.

Pool water budget, in acre-feet, water year October 1959 to September 1960.

	Oct	Nov.	Dec.	Calendar year 1959	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water year 1960
Total Inflow 1/	39.0	3.0	5.1	47.9	42.0	4.1	4.4	.2	10.3	0	5.9	5.9	6.0	58.5
Total Outflow	34.1	0	0	34.5	39.9	2.0	0	0	8.25	0	0	0	0	50.3
Total Consumption	16.1	10.5	6.0	12.6	7.3	8.3	8.7	15.0	18.2	22.2	23.7	19.5	14.4	8.9
†	+5.9.0	-5.6	+5.0	+20.6	0	-3.2	-2.0	-11.6	+1.6	-5.2	-3.2	-11.6	-11.0	2.0
‡	30.4	27.6	27.2	26.6	28.4	27.6	27.2	26.0	27.0	25.0	24.7	24.2	18.0	26.1
††	9.48	1.09	3.65	35.15	2.31	1.46	1.05	1.73	2.83	1.72	2.22	2.07	1.22	35.15

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, — c.f.s.)

Date	Time	Discharge	Date	Time	Discharge

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GEOLOGICAL SURVEY - TEXAS DISTRICT

WATER BUDGET OF POOLS

ANNUAL SUMMARY

1960 WATER YEAR

Green. Creek subwatershed No. 4 near Dublin, Tex. Drainage Area 1.74 sq. mi.

Staff gage
~~Continuous water-stage recorder~~: ratio ____. Date of last sediment survey none.

Maxima: gage height, 19.7 ft; outflow, 11 c.f.s; surface area, 42.7 acres; contents, 184 acre-feet; on Oct. 4.

Minima: gage height, 10.3 ft; surface area, 4.3 acres; contents, 5.2 acre-feet; on Sept 30.

Maximum inflow, ____ c.f.s (averaged for 5-min. interval and adjusted for rainfall on pool surface) on ____.

Averages: ____ water years, (____); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year.

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Pool water budget, in acre-feet, water year October 1959 to September 1960.

	Oct	Nov.	Dec.	Calendar year 1959	Jan.	Feb	Mar.	Apr	May	June	July	Aug.	Sept.	Water year 1960
Total Inflow 1/	232	3.9	47	271	20.7	3.3	1.3	0	17.1	6.4	0	1.3	.6	29.3
Total Outflow	203	.6	0	203	18.3	12.9	4.6	0	2.0	2	0	0	0	20.8
Total Consumption	11.0	6.1	5.7	44.8	3.7	3.4	4.9	6.0	5.2	5.5	6.4	4.9	3.1	6.0.7
†	+29.8	-1.6	+3.6	76.6	+2.6	-11.6	-7.0	-5.0	+2.6	+2.0	-5.6	-2.7	-2.1	-7.6
‡	20.6	16.1	15.3	6.8	16.1	15.7	12.5	11.6	8.6	7.2	6.6	5.4	4.5	11.5
††	9.45	1.35	2.90	35.50	2.08	1.79	1.14	1.09	3.17	2.35	2.09	2.09	1.08	36.73

1/ Inflow adjusted for rainfall on pool and pool losses
† Change in contents, in acre-feet
‡ Mean surface area, in acres
†† Weighted mean rainfall, in inches

Peak inflow - (base, — cfs)

Date	Time	Discharge	Date	Time	Discharge

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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY - TEXAS DISTRICT

WATER BUDGET OF POOLS

ANNUAL SUMMARY

1960 WATER YEAR

Green Creek subwatershed No. 5 near Dublin, Tex. Drainage Area 2.09 sq. mi.

Staff gage ~~Continuous water-stage recorder~~: ratio ______. Date of last sediment survey none.

Maxima: gage height, 20.4 ft; outflow, 9.4 c.f.s.; surface area, 43.6 acres; contents, 333 acre-feet; on Oct. 4.

Minima: gage height, 10.3 ft; surface area, 15.4 acres; contents, 42.5 acre-feet; on Oct. 1.

Maximum inflow, ______ c.f.s. (averaged for 5-min. interval and adjusted for rainfall on pool surface) on ______.

Averages: ____ water years, (______); inflow, ______ acre-feet/year; outflow, ______ acre-feet/year; rainfall, ______ inches/year.

Pool water budget, in acre-feet, water year October 1959 to September 1960.

	Oct	Nov.	Dec.	Calendar year 1959	Jan.	Feb.	Mar.	Apr	May	June	July	Aug.	Sept.	Water year 1960
Total Inflow 1/	259	2.0	9.8	288	64.4	0	6.8	2.6	14.7	9.8	.1	1.5	1.2	371
Total Outflow	167	0	2.2	172	55.2	2.0	0	0	2.6	0	0	0	0	229
Total Consumption	[illegible]	8.2	5.7	109	10.8	8.8	8.9	11.5	14.5	23.6	22.0	19.0	5.3	168
†	+94.2	-4.0	+2.0	+60.0	+3.0	-8.0	0	-5.0	+3.2	-10.0	-20.0	-14.0	-12.0	[illegible]
‡	22.7	23.4	23.0	19.1	25.7	23.9	23.4	23.2	23.4	22.5	22.0	21.1	20.4	23.3
††	9.47	1.10	3.65	35.11	2.29	1.41	1.06	1.91	2.84	1.99	2.04	1.98	1.24	30.95

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, — c.f.s.)

Date	Time	Discharge	Date	Time	Discharge

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WATER BUDGET OF POOLS

ANNUAL SUMMARY

1960 WATER YEAR

____ Green Creek subwatershed No. 6 near Dublin, Tex. Drainage Area 1.50 sq. mi.

Staff gage
~~Continuous water-stage recorder~~: ratio ____. Date of last sediment survey none.

Maxima: gage height, 15.9 ft; outflow, 9.8 c.f.s; surface area, 17.8 acres; contents, 83.0 acre-feet; on Oct. 4.

Minima: gage height, 8.4 ft; surface area, 4.4 acres; contents, 10.4 acre-feet; on Sept. 30.

Maximum inflow, ____ c.f.s (averaged for 5-min. interval and adjusted for rainfall on pool surface) on ____.

Averages: ____ water years, (____); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year.

Pool water budget, in acre-feet, water year October 1959 to September 1960.

	Oct	Nov.	Dec.	Calendar year 1959	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water year 1960
Total Inflow 1/	86.1	.9	.7	103	30.2	1.9	4.6	0	1.1	.1	.3	1.4	1.0	135
Total Outflow	25.2	0	0	27.3	7.3	2.2	0	0	0	0	0	0	0	34.7
Total Consumption	16.3	10.5	7.7	56.6	8.3	6.6	9.0	9.9	12.5	13.7	7.8	2.0	2.1	122
†	+52.6	-8.0	-4.0	35.7	+23.0	-5.0	-3.0	-3.0	-8.0	-3.1	-8.0	-4.0	-2.0	+0.3
‡	13.6	14.0	12.9	5.0	15.4	15.6	15.0	14.0	13.2	11.7	9.0	6.3	5.0	12.2
††	9.75	1.30	2.96	35.50	2.28	1.49	1.17	1.09	3.27	2.32	2.03	2.04	1.9	36.13

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, — c.f.s)

Date	Time	Discharge	Date	Time	Discharge
	2			2	

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WATER BUDGET OF POOLS

ANNUAL SUMMARY

1960 WATER YEAR

____ . Green Creek subwatershed No. 7 near Dublin, Tex. Drainage Area 3.25 sq. mi.

Staff gage ~~Continuous water-stage recorder~~: ratio ____. Date of last sediment survey none.

Maxima: gage height, 17.5 ft; outflow, 13 c.f.s; surface area, 46.0 acres; contents, 236 acre-feet; on Oct. 4.

Minima: gage height, 8.3 ft; surface area, 9.6 acres; contents, 38.8 acre-feet; on Oct. 1.

Maximum inflow, ____ c.f.s. (averaged for 5-min. interval and adjusted for rainfall on pool surface) on ____.

Averages: ____ water years, (____); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year.

Pool water budget, in acre-feet, water year October 1959 to September 1960.

	Oct	Nov.	Dec.	Calendar year 1959	Jan.	Feb.	Mar.	Apr	May	June	July	Aug.	Sept	Water year 1960
Total Inflow 1/	2.15	3.0	13.9	294	67.2	3.9	13.6	7.4	6.8	4.9	7.1	.8	2.3	34.6
Total Outflow	1.08	0	0	1.30	60.3	2.8	4.2	11.9	0	0	7.	1.1	2.1	2.2
Total Consumption	12.0	12.4	12.4	102	8.1	9.3	11.8	10.7	16.6	20.7	8.2	17.7	12.8	1.07
†	+1.07	-7.0	+9.0	+1.03	+3.0	-5.0	0	+2.1	-3.0	-11.6	+14.6	-23.2	-16.0	- 25.2
‡	25.0	25.8	25.8	13.2	27.0	26.6	26.2	23.8	24.6	23.0	21.1	16.3	14.2	23.3
††	9.07	1.12	3.47	34.50	2.02	1.41	1.16	1.61	3.67	2.47	2.21	1.40	1.42	35.2

1/ Inflow adjusted for rainfall on pool and pool losses
† Change in contents, in acre-feet
‡ Mean surface area, in acres
†† Weighted mean rainfall, in inches

Peak inflow - (base, — c.f.s)

Date	Time	Discharge	Date	Time	Discharge

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WATER BUDGET OF POOLS

ANNUAL SUMMARY

1960 WATER YEAR

Green Creek subwatershed No. 8 near Dublin, Tex. Drainage Area 6.03 sq. mi.

Staff gage ~~Continuous water-stage recorder~~: ratio ____. Date of last sediment survey none.

Maxima: gage height, 24.5 ft; outflow, 42 c.f.s; surface area, 66.0 acres; contents, 641 acre-feet; on Oct. 4.

Minima: gage height, 10.8 ft; surface area, 11.6 acres; contents, 118 acre-feet; on Oct. 2.

Maximum inflow, ____ c.f.s. (averaged for 5-min. interval and adjusted for rainfall on pool surface) on ____.

Averages: ____ water years, (____); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year.

Pool water budget, in acre-feet, water year October 1959 to September 1960.

	Oct	Nov.	Dec.	Calendar year 1959	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug	Sept.	Water year 1960
Total Inflow 1/	666	20.5	56.3	783	230	67.4	27.2	13.2	28.3	21.7	16.0	2.3	1.0	1160
Total Outflow	580	12.5	62.8	682	206	58.5	18.4	2.8	.9	11.3	22.5	8.2	2.2	132
Total Consumption	23.8	10.7	10.2	103	11.2	12.3	3.4	16.9	14.2	22.9	15.3	16.2	1.7	152
†	+20.0	-5.0	-16.0	32	+23.0	0	-2.6	-3.0	-2.0	-7.6	-17.6	-21.2	-11.2	+1.2
‡	36.6	26.7	25.7	16.5	28.1	27.4	26.7	26.0	26.0	25.7	2.9	16.2	4.2	25.2
††	9.31	1.18	3.46	34.45	2.03	1.50	1.15	1.67	3.01	2.68	2.31	1.40	1.48	31.2

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, ____ c.f.s)

Date	Time	Discharge	Date	Time	Discharge

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GEOLOGICAL SURVEY - TEXAS DISTRICT

WATER BUDGET OF POOLS

ANNUAL SUMMARY

1961 WATER YEAR

8-940. GREEN Creek subwatershed No. 1 near DUBLIN, Tex. Drainage Area 3.18 sq. mi.

Continuous water-stage recorder: ratio 1:6. Date of last sediment survey April 9, 1962.

Maxima: gage height, 10.52 ft; outflow, 0 c.f.s.; surface area, 38.7 acres; contents, 221 acre-feet; on July 24.

Minima: gage height, 6.78 ft; surface area, 21.9 acres; contents, 111 acre-feet; on Dec. 3.

Maximum inflow, 261 c.f.s. (averaged for 5-min. interval and adjusted for rainfall on pool surface) on July 9, 1961.

Averages: 6 water years, (1955-61); inflow, 647 acre-feet/year; outflow, 484 acre-feet/year; rainfall, 31.23 inches/year.

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Pool water budget, in acre-feet, water year October 1960 to September 1961.

	Oct	Nov	Dec.	Calendar year 1960	Jan.	Feb.	Mar	Apr	May	June	July	Aug.	Sept.	Water year 1961
Total Inflow 1/	.2	.3	6.3	197	53.6	44.9	1.1	.9	5.8	3.3	65.4	.4	3.5	186
Total Outflow	0	0	0	140	0	0	0	0	0	0	0	0	0	0
Total Consumption	14.5	12.9	11.2	248	8.7	11.1	15.7	29.0	23.4	23.1	28.2	30.2	28.4	236
†	−11.4	−12.2	+ 1.1	− 127	+ 56.0	+ 44.3	− 9.7	− 26.2	− 9.7	− 8.9	+ 53.8	− 29.5	− 16.2	+ 31.4
‡	24.6	23.0	22.3	33.3	28.9	36.9	36.6	34.1	31.6	29.6	36.1	35.5	31.6	30.9
††	1.43	.20	3.34	22.79	5.40	3.53	1.60	0.68	2.96	4.35	5.69	0.10	3.33	32.61

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, 100 cfs)

Date	Time	Discharge	Date	Time	Discharge
July 9, 1961	1640	261			

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GEOLOGICAL SURVEY - TEXAS DISTRICT

WATER BUDGET OF POOLS

ANNUAL SUMMARY

1961 WATER YEAR

GREEN Creek subwatershed No. 2 near DUBLIN, Tex. Drainage Area _____ sq. mi.

Staff gage
~~Continuous water-stage recorder~~: ratio _____. Date of last sediment survey none.

Maxima: gage height, 16.9 ft; outflow, 14 c.f.s; surface area, 43.3 acres; contents, 181 acre-feet; on July 10.

Minima: gage height, 6.8 ft; surface area, 3.3 acres; contents, 4.4 acre-feet; on Dec. 3.

Maximum inflow, _____ c.f.s (averaged for 5-min. interval and adjusted for rainfall on pool surface) on _____.

Averages: _____ water years, (_____); inflow, _____ acre-feet/year; outflow, _____ acre-feet/year; rainfall, _____ inches/year.

Pool water budget, in acre-feet, water year October 1960 to September 1961.

	Oct	Nov.	Dec.	Calendar year 1960	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water year 1961
Total Inflow 1/	.5	0	2.1	231	44.8	49.4	.9	4.5	12.0	10.5	166	.1	1.3	292
Total Outflow	0	0	0	260	0	0	0	0	0	0	133	32.0	6.0	171
Total Consumption	2.6	1.6	1.8	108	5.5	11.0	14.3	15.3	15.2	17.0	24.5	20.0	11.9	141
†	-1.6	-1.5	+1.2	-105	+43.6	+44.6	-10.2	-9.2	+2.2	+2.3	+20.4	-51.8	-12.9	+27.1
‡	4.0	3.6	3.6	15.0	12.3	24.5	25.5	23.7	23.4	23.0	28.8	22.5	14.0	17.4
††	1.44	.20	3.51	22.60	5.34	3.38	1.53	0.77	2.83	4.38	5.04	0.08	3.17	31.67

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, _____ c.f.s)

Date	Time	Discharge	Date	Time	Discharge

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WATER BUDGET OF POOLS

ANNUAL SUMMARY

1961 WATER YEAR

GREEN Creek subwatershed No 3 near DUBLIN, Tex Drainage Area 1.53 sq mi.

Staff gage
~~Continuous water-stage recorder~~: ratio ____. Date of last sediment survey none

Maxima: gage height, 16.2 ft; outflow, 21 c f s; surface area, 32.8 acres; contents, 144 acre-feet; on July 10.

Minima: gage height, 11.4 ft; surface area, 14.2 acres; contents, 33.7 acre-feet; on Dec. 3.

Maximum inflow, ____ c.f.s (averaged for 5-min interval and adjusted for rainfall on pool surface) on ____.

Averages: ____ water years, (____); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year.

Pool water budget, in acre-feet, water year October 1960 to September 1961.

	Oct	Nov	Dec	Calendar year 1960	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Water year 1961
Total Inflow 1/	.3	.1	5.3	181	52.3	24.7	.6	6.4	8.2	18.6	94.9	.2	4.0	216
Total Outflow	0	0	0	122	0	10.5	0	0	0	0	69.4	0	0	79.9
Total Consumption	9.1	6.5	5.6	168	7.0	8.3	11.7	18.4	18.3	20.5	21.8	20.1	18.7	166
†	- 6.8	- 6.1	+ 4.5	- 65.4	+ 52.3	+ 13.1	- 8.0	- 10.0	- 4.8	+ 7.2	+ 12.6	- 19.8	- 9.0	+ 25.2
‡	16.0	15.1	15.1	22.9	23.2	27.7	27.2	25.6	24.4	24.4	27.2	25.5	23.4	22.9
††	1.45	0.21	3.85	22.21	5.23	3.08	1.40	0.96	2.58	4.43	3.75	.04	2.86	29.84

1/ Inflow adjusted for rainfall on pool and pool losses
† Change in contents, in acre-feet
‡ Mean surface area, in acres
†† Weighted mean rainfall, in inches

Peak inflow - (base, ____ cfs)

Date	Time	Discharge	Date	Time	Discharge
2			2		

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WATER BUDGET OF POOLS

ANNUAL SUMMARY

1961 WATER YEAR

GREEN Creek subwatershed No 4 near DUBLIN, Tex. Drainage Area 1.74 sq. mi.

staff gage
~~Continuous water-stage recorder~~: ratio ____. Date of last sediment survey none.

Maxima: gage height, 14.2 ft; outflow, 0 c.f.s; surface area, 13.3 acres; contents, 35.8 acre-feet; on Feb. 16.

Minima: gage height, 9.3 ft; surface area, 2.6 acres; contents, 1.8 acre-feet; on Dec. 5.

Maximum inflow, ____ c.f.s. (averaged for 5-min. interval and adjusted for rainfall on pool surface) on ____.

Averages: ____ water years, (____); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year.

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Pool water budget, in acre-feet, water year October 1960 to September 1961.

	Oct	Nov	Dec	Calendar year 1960	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Water year 1961
Total Inflow 1/	.5	0	2.1	51.9	12.9	18.3	.4	4.0	2.4	4.0	.2	0	.9	45.7
Total Outflow	0	0	0	64.4	0	0	0	0	0	0	0	0	0	0
Total Consumption	2.3	2.0	1.9	44.9	3.5	3.8	5.8	7.9	7.4	6.7	7.0	6.0	4.3	58.6
†	-1.2	-1.9	+1.5	-42.4	+12.0	+17.6	-3.6	-3.3	-3.0	+1.0	-4.7	-6.0	-1.6	+5.3
‡	4.1	3.4	3.6	8.2	8.4	11.2	12.0	11.3	10.3	9.8	9.4	7.6	6.6	8.1
††	1.70	.19	3.97	22.94	5.35	3.46	1.81	.62	2.34	4.85	2.59	0	3.08	29.96

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, — c.f.s.)

Date	Time	Discharge	Date	Time	Discharge

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WATER BUDGET OF POOLS

ANNUAL SUMMARY

1961 WATER YEAR

GREEN Creek subwatershed No 5 near DUBLIN, Tex. Drainage Area 2.09 sq. mi.

staff gage
~~Continuous water-stage recorder~~: ratio ____. Date of last sediment survey none.

Maxima: gage height, 15.5 ft; outflow, 3.5 c.f.s; surface area, 27.3 acres; contents, 160 acre-feet; on Feb. 6.

Minima: gage height, 11.5 ft; surface area, 18.8 acres; contents, 70.0 acre-feet; on Dec. 5.

Maximum inflow, ____ c.f.s (averaged for 5-min. interval and adjusted for rainfall on pool surface) on ____.

Averages: ____ water years, (____); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year.

Pool water budget, in acre-feet, water year October 1960 to September 1961.

	Oct	Nov.	Dec.	Calendar year 1960	Jan.	Feb.	Mar	Apr	May	June	July	Aug.	Sept	Water year 1961
Total Inflow 1/	3.2	1.0	7.1	112	520	24.6	4.5	.8	.7	18.1	0	0	.4	112
Total Outflow	0	0	0	59.8	0	9.9	0	8.3	0	0	0	4.2	0	22.4
Total Consumption	11.7	7.4	9.3	163	4.4	6.0	11.2	12.3	15.3	14.2	18.7	17.9	11.2	140
†	-6.0	-6.0	+4.0	-71.0	+56.0	+12.0	-4.0	-18.0	-10.0	+12.0	-12.0	-22.0	-6.0	0
‡	20.1	19.4	19.4	22.1	21.8	24.3	23.4	22.4	21.9	21.8	21.9	21.0	20.4	21.5
††	1.50	.22	3.87	22.30	5.27	3.07	1.39	.96	2.54	4.46	3.67	.05	2.86	29.86

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, ____ c.f.s)

Date	Time	Discharge	Date	Time	Discharge

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WATER BUDGET OF POOLS

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1961 WATER YEAR

GREEN Creek subwatershed No 6 near DUBLIN, Tex Drainage Area 1.50 sq mi

Staff gage
~~Continuous water-stage recorder~~: ratio ____. Date of last sediment survey none

Maxima: gage height, 11.4 ft; outflow, 0 cfs; surface area, 7.8 acres; contents, 29.6 acre-feet; on Feb. 16

Minima: gage height, 5.6 ft; surface area, 1.6 acres; contents, 3.4 acre-feet; on Sept. 30

Maximum inflow, ____ cfs (averaged for 5-min. interval and adjusted for rainfall on pool surface) on ____

Averages: ____ water years, (____); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year

Pool water budget, in acre-feet, water year October 1960 to September 1961.

	Oct	Nov	Dec	Calendar year 1960	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Water year 1961
Total Inflow 1/	1.8	0	.2	47.2	3.6	9.9	.7	.0	.5	1.0	2.6	0	.2	20.5
Total Outflow	0	0	0	9.5	0	0	0	0	0	0	0	0	0	0
Total Consumption	4.7	2.7	1.2	96.1	1.3	1.8	4.1	4.0	5.2	4.7	7.0	4.2	2.5	43.4
†	−2.3	−2.7	−.2	−46.3	+3.8	+9.7	−2.4	−3.7	−3.6	−1.6	−3.4	−4.2	−1.6	−12.2
‡	3.9	2.8	2.4	104	3.5	6.0	7.1	6.6	5.8	5.2	4.5	3.2	2.1	4.4
††	1.70	.19	3.97	22.94	5.35	3.46	1.81	.62	2.34	4.85	2.59	0	3.08	29.96

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, ____ cfs)

Date	Time	Discharge	Date	Time	Discharge

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1961 WATER YEAR

GREEN Creek subwatershed No 7 near DUBLIN, Tex Drainage Area 3.25 sq mi

~~Continuous water stage recorder~~ staff gage: ratio ____. Date of last sediment survey none.

Maxima: gage height, 15.2 ft; outflow, 2.9 cfs; surface area, 27.8 acres; contents, 153 acre-feet; on Feb. 6.

Minima: gage height, 9.7 ft; surface area, 12.2 acres; contents, 53.8 acre-feet; on Dec. 1.

Maximum inflow, ____ cfs (averaged for 5-min interval and adjusted for rainfall on pool surface) on ____.

Averages: ____ water years, (____); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year.

Pool water budget, in acre-feet, water year October 1960 to September 1961.

	Oct	Nov	Dec	Calendar year 1960	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Water year 1961
Total Inflow 1/	2.9	.2	4.0	142	54.5	35.8	1.6	.8	0	13.2	1.5	0	4.5	119
Total Outflow	0	3.2	0	105	0	0	0	0	0	0	0	11.9	3.0	18.1
Total Consumption	6.5	5.9	2.5	139	3.7	7.7	10.4	15.5	23.1	12.2	17.3	21.2	11.8	138
†	-2.5	-8.7	+3.6	-88.6	+55.6	+32.0	-7.0	-14.0	-21.0	+6.0	-13.4	-33.1	-8.7	-11.2
‡	13.0	12.6	12.5	20.1	18.4	25.8	26.0	24.4	21.0	19.4	18.8	15.2	12.5	18.3
††	2.33	0.36	4.18	23.32	5.57	3.21	1.39	0.62	1.91	4.78	2.43	.06	3.00	29.74

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, ____ cfs)

Date	Time	Discharge	Date	Time	Discharge

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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY - TEXAS DISTRICT

WATER BUDGET OF POOLS

ANNUAL SUMMARY

1961 WATER YEAR

GREEN Creek subwatershed No 8 near DUBLIN, Tex Drainage Area 6.03 sq mi

~~Continuous water-stage recorder~~ staff gage: ratio ____. Date of last sediment survey none.

Maxima: gage height, 15.7 ft; outflow, 4.8 c.f.s; surface area, 30.9 acres; contents, 207 acre-feet; on Jan 8, Feb. 6.

Minima: gage height, 11.1 ft; surface area, 12.2 acres; contents, 122 acre-feet; on Dec. 6.

Maximum inflow, ____ c.f.s (averaged for 5-min. interval and adjusted for rainfall on pool surface) on ____.

Averages: ____ water years, (____); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year.

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Pool water budget, in acre-feet, water year October 1960 to September 1961.

	Oct	Nov	Dec	Calendar year 1960	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Water year 1961
Total Inflow 1/	1.8	.1	4.5	419	114	102	16.3	5.9	1.8	10.2	1.5	0	1.7	260
Total Outflow	0	0	0	348	52.8	98.0	14.7	2.8	4.4	1.4	0	0	0	174
Total Consumption	9.0	4.4	3.9	155	6.7	8.4	13.4	12.8	16.1	13.4	15.6	14.2	11.6	130
†	-5.0	-4.0	+5.0	42.9	+ 64.0	+ 2.0	- 2.0	- 8.0	-15.0	-14.0	-11.0	-14.0	-6.0	+ 10.0
‡	13.3	12.5	12.9	279	22.4	28.0	26.7	25.7	22.4	20.7	20.0	17.2	15.5	19.8
††	2.00	.34	4.10	23.70	5.69	3.11	1.35	.83	2.06	4.80	2.59	.12	2.95	29.94

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, ____ c.f.s)

Date	Time	Discharge	Date	Time	Discharge

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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY - TEXAS DISTRICT

WATER BUDGET OF POOLS

ANNUAL SUMMARY

1962 WATER YEAR

A-940 Green Creek subwatershed No. 1 near Dublin, Tex. Drainage Area 3.18 sq. mi.

Continuous water-stage recorder: ratio 1:6. Date of last sediment survey April 9, 1962.

Maxima: gage height, 11.68 ft; outflow, 13.2 c.f.s; surface area, 44.6 acres; contents, 262 acre-feet; on Oct. 10.

Minima: gage height, 7.44 ft; surface area, 24.0 acres; contents, 126 acre-feet; on Sept. 5.

Maximum inflow, 516 c.f.s (averaged for 5-min. interval and adjusted for rainfall on pool surface) on September 7, 1962

Averages: 7 water years, (1955-62); inflow, 613 acre-feet/year; outflow, 446 acre-feet/year; rainfall, 30.76 inches/year.

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Pool water budget, in acre-feet, water year October 1961 to September 1962.

	Oct	Nov.	Dec.	Calendar year 1961	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water year 1962
Total Inflow 1/	229	2.6	2.1	413	0.2	0.8	0.4	7.3	0.3	5.4	7.2	10.3	148	414
Total Outflow	158	0	0	158	0	0	0	0	2.0	0	0	0	44.6	205
Total Consumption	19.8	12.8	9.9	240	8.6	12.1	14.8	18.5	30.0	25.9	28.3	24.2	25.1	230
†	+66.0	-2.8	-4.4	113	-7.8	-7.6	-12.1	-2.8	-29.7	-12.5	-14.3	-11.1	+97.6	+58.5
‡	39.5	40.0	39.8	35.0	39.0	37.9	36.9	35.6	32.6	29.4	26.2	25.8	35.8	34.9
††	4.59	2.20	1.04	35.47	.18	1.17	.78	2.85	.80	3.30	3.21	1.28	6.54	27.94

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, 100 c.f.s)

Date	Time	Discharge	Date	Time	Discharge
Sept. 7, 1962	1015	516			

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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY - TEXAS DISTRICT

WATER BUDGET OF POOLS

ANNUAL SUMMARY

1962 WATER YEAR

Green Creek subwatershed No. 2 near Dublin, Tex. Drainage Area 2.65 sq. mi.

Staff gage
~~Continuous water stage recorder~~: ratio ____. Date of last sediment survey none.

Maxima: gage height, 14.4 ft; outflow, 0 c.f.s; surface area, 26.5 acres; contents, 93.8 acre-feet; on Oct. 9.

Minima: gage height, 7.9 ft; surface area, 4.4 acres; contents, 8.3 acre-feet; on Sept. 6.

Maximum inflow, ____ c.f.s (averaged for 5-min. interval and adjusted for rainfall on pool surface) on ____.

Averages: ____ water years, (____); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year.

Pool water budget, in acre-feet, water year October 1961 to September 1962.

	Oct	Nov	Dec	Calendar year 1961	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Water year 1962
Total Inflow 1/	54.3	7.2	3.2	354	0	0.5	1.0	4.0	2.0	0.4	4.1	3.4	68.9	149
Total Outflow	3.2	0	0	174	0	0	0	0	1.8	0	0	6.0	1.2	12.2
Total Consumption	13.7	9.3	5.3	163	7.0	7.0	10.2	10.0	20.6	14.4	12.5	13.0	18.3	141
†	+44.3	+2.3	0	75.6	-6.8	-4.3	-8.1	0	-19.2	-10.6	-6.4	-14.1	+58.4	+35.5
‡	21.5	23.2	24.1	22.2	23.2	21.7	20.5	20.0	17.5	13.6	10.6	8.2	18.3	18.5
††	4.62	2.29	1.05	34.48	.15	1.21	.71	3.27	.87	3.15	2.81	1.50	6.25	27.88

1/ Inflow adjusted for rainfall on pool and pool losses
† Change in contents, in acre-feet
‡ Mean surface area, in acres
†† Weighted mean rainfall, in inches

Peak inflow - (base, ____ c.f.s)

Date	Time	Discharge	Date	Time	Discharge

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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY - TEXAS DISTRICT

WATER BUDGET OF POOLS

ANNUAL SUMMARY

1962 WATER YEAR

Green Creek subwatershed No 3 near Dublin, Tex. Drainage Area 1.53 sq. mi.

Staff gage
~~Continuous water-stage recorder~~: ratio ____. Date of last sediment survey none.

Maxima: gage height, 16.2 ft; outflow, 21 c f s; surface area, 32.8 acres; contents, 144 acre-feet; on Sept. 7

Minima: gage height, 11.7 ft; surface area, 15.1 acres; contents, 38.1 acre-feet; on Sept. 6

Maximum inflow, ____ c f s (averaged for 5-min. interval and adjusted for rainfall on pool surface) on ____

Averages: ____ water years, (____); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year.

Pool water budget, in acre-feet, water year October 1961 to September 1962.

	Oct	Nov	Dec	Calendar year 1961	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Water year 1962
Total Inflow 1/	36.0	8.3	5.3	260	0.1	0.4	2.3	7.3	2.2	3.2	3.5	8.8	83.1	160
Total Outflow	4.8	0	0	84.7	0	0	0	0	0	4.4	0	0	23.2	32.4
Total Consumption	12.0	10.8	7.7	175	5.7	8.4	9.0	11.2	22.8	16.3	17.8	21.5	20.2	163
†	+28.8	+3.0	0	65.4	-5.4	-5.2	-5.5	+2.0	-18.7	-12.5	-11.3	-9.8	+47.4	+12.8
‡	26.6	27.0	27.6	25.8	27.1	26.4	25.6	25.4	24.0	21.4	18.7	17.2	25.2	24.4
††	4.72	2.48	1.06	32.59	.08	1.29	.56	4.13	1.00	2.84	2.01	1.95	5.67	27.79

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, ____ cfs)

Date	Time	Discharge	Date	Time	Discharge

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GEOLOGICAL SURVEY - TEXAS DISTRICT

WATER BUDGET OF POOLS

ANNUAL SUMMARY

1962 WATER YEAR

Green Creek subwatershed No 4 near Dublin, Tex Drainage Area 1.74 sq mi

Staff gage
~~Continuous water-stage recorder~~: ratio ____ Date of last sediment survey none

Maxima: gage height, 15.2 ft; outflow, 3.0 c f s; surface area, 17.5 acres; contents, 51.0 acre-feet; on Sept. 7

Minima: gage height, 10.7 ft; surface area, 4.7 acres; contents, 6.8 acre-feet; on Sept. 6

Maximum inflow, ____ c f s (averaged for 5-min interval and adjusted for rainfall on pool surface) on ____

Averages ____ water years, (____); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year

Pool water budget, in acre-feet, water year October 1961 to September 1962

	Oct	Nov	Dec	Calendar year 1961	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Water year 1962
Total Inflow 1/	29.3	0.6	2.0	75.0	0	0.1	0.2	1.9	1.8	1.7	2.7	0	55.1	95.4
Total Outflow	0	0	0	0	0	0	0	0	0	0	1.8	0	16.1	17.9
Total Consumption	8.3	5.9	4.4	71.0	3.7	4.6	3.6	5.0	7.7	6.6	5.3	5.0	10.0	70.1
†	+25.2	-2.7	-1.3	+29.6	-3.6	-3.3	-3.0	0	-5.3	-2.4	-3.4	-4.4	+33.6	+29.4
‡	12.7	13.1	12.7	10.4	12.0	11.3	10.4	10.1	8.8	7.7	6.8	5.6	12.9	10.3
††	4.92	2.36	1.05	32.43	.07	1.28	.50	3.75	.94	3.99	1.88	1.02	6.67	28.43

1/ Inflow adjusted for rainfall on pool and pool losses
† Change in contents, in acre-feet
‡ Mean surface area, in acres
†† Weighted mean rainfall, in inches

Peak inflow - (base, — c f s)

Date	Time	Discharge	Date	Time	Discharge
	2			2	

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WATER BUDGET OF POOLS

ANNUAL SUMMARY

1962 WATER YEAR

Green Creek subwatershed No 5 near Dublin, Tex. Drainage Area 2.09 sq. mi.

staff gage
~~Continuous water-stage recorder~~; ratio _____. Date of last sediment survey none.

Maxima: gage height, 16.2 ft; outflow, 8.2 c.f.s; surface area, 29.6 acres; contents, 180 acre-feet; on Sept. 7.

Minima: gage height, 11.7 ft; surface area, 19.4 acres; contents, 24.0 acre-feet; on Sept. 6.

Maximum inflow, _____ c.f.s (averaged for 5-min. interval and adjusted for rainfall on pool surface) on _____.

Averages: _____ water years, (_____); inflow, _____ acre-feet/year; outflow, _____ acre-feet/year; rainfall, _____ inches/year.

Pool water budget, in acre-feet, water year October 1961 to September 1962.

	Oct	Nov.	Dec.	Calendar year 1961	Jan.	Feb	Mar	Apr	May	June	July	Aug	Sept	Water year 1962
Total Inflow 1/	57.7	6.5	3.0	168	0	2.3	0.1	19.6	1.4	2.4	0.3	0	169	262
Total Outflow	0	0	0	22.4	0	0	0	0	0	0	4.8	0	101	106
Total Consumption	10.0	9.3	7.0	13.8	6.2	6.7	9.1	11.3	21.2	17.4	18.9	17.2	14.7	149
†	+56.0	+2.0	-2.0	+64.0	-6.0	-2.0	-8.0	+16.0	-18.0	-10.0	-20.0	-14.0	+64.0	+58.0
‡	22.2	23.1	23.4	22.3	22.7	22.2	22.2	22.3	22.3	21.8	21.0	20.2	22.6	22.2
††	4.77	2.51	1.04	32.59	.08	1.27	.53	4.15	.98	2.78	1.98	1.85	5.72	27.66

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, _____ c.f.s)

Date	Time	Discharge	Date	Time	Discharge

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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY - TEXAS DISTRICT

WATER BUDGET OF POOLS

ANNUAL SUMMARY

1962 WATER YEAR

Green Creek subwatershed No. 6 near Dublin, Tex. Drainage Area 1.50 sq. mi.

staff gage
~~Continuous water-stage recorder~~: ratio ____. Date of last sediment survey none.

Maxima: gage height, 2.0 ft; outflow, 0 c.f.s; surface area, 5.0 acres; contents, 13.6 acre-feet; on Oct. 10.

Minima: gage height, 1.1 ft; surface area, 0 acres; contents, 0 acre-feet; on Sept. 6.

Maximum inflow, ____ c.f.s (averaged for 5-min. interval and adjusted for rainfall on pool surface) on ____.

Averages: ____ water years, (____); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year.

Pool water budget, in acre-feet, water year October 1961 to September 1962.

	Oct	Nov	Dec	Calendar year 1961	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Water year 1962
Total Inflow 1/	9.1	0.6	0.3	28.5	0	0.4	0.1	0.7	0	0	0.4	0.2	9.6	21.4
Total Outflow	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Consumption	4.4	3.2	2.1	44.5	1.5	1.4	1.4	1.3	1.8	1.0	.6	.2	4.2	23.1
†	+6.4	-2.8	-1.5	-3.9	-1.5	-.8	1.2	-.2	-1.8	-.8	-.2	0	+5.8	+2.4
‡	4.4	3.8	3.3	4.6	2.8	2.2	1.7	1.3	.9	.6	.3	.1	2.2	2.0
††	4.92	1.05	1.05	32.43	.07	1.28	.50	3.75	.94	3.99	.88	1.02	6.67	28.43

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, ____ c.f.s)

Date	Time	Discharge	Date	Time	Discharge

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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY - TEXAS DISTRICT

WATER BUDGET OF POOLS

ANNUAL SUMMARY

1962 WATER YEAR

____ Green Creek subwatershed No 1 near Dublin, Tex Drainage Area 3.25 sq mi

Staff gage
~~Continuous water-stage recorder~~: ratio ____. Date of last sediment survey none

Maxima: gage height, 15.3 ft; outflow, 5.4 cfs; surface area, 28.2 acres; contents, 156 acre-feet; on Oct. 10

Minima: gage height, 7.4 ft; surface area, 7.8 acres; contents, 31.0 acre-feet; on Sept 6

Maximum inflow, ____ cfs (averaged for 5-min interval and adjusted for rainfall on pool surface) on ____

Averages: ____ water years, (____); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year

Pool water budget, in acre-feet, water year October 1961 to September 1962.

	Oct	Nov	Dec	Calendar year 1961	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Water year 1962
Total Inflow 1/	94.7	3.4	4.1	214	0	0.3	0	.5	0	3.3	3.2	1.2	56.4	168
Total Outflow	0	0	0	14.9	0	0	0	0	0	0	2.2	3.0	0	5.2
Total Consumption	19.5	11.8	10.6	165	9.2	8.2	10.5	9.8	16.9	16.2	23.8	20.0	12.9	169
†	+82.2	-3.0	-5.0	+20.6	-9.0	-6.0	-10.0	-2.0	-16.1	-9.1	-21.0	-21.2	+48.2	+28.0
‡	23.0	24.6	24.2	21.1	23.0	21.6	19.9	18.8	17.2	15.4	13.2	10.5	14.3	18.8
††	5.31	2.64	.90	31.82	.09	.08	.29	4.01	.79	3.12	1.67	.63	6.48	27.01

1/ Inflow adjusted for rainfall on pool and pool losses
† Change in contents, in acre-feet
‡ Mean surface area, in acres
†† Weighted mean rainfall, in inches

Peak inflow - (base, ____ cfs)

Date	Time	Discharge	Date	Time	Discharge

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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY - TEXAS DISTRICT

WATER BUDGET OF POOLS

ANNUAL SUMMARY

1962 WATER YEAR

Green Creek subwatershed No. 8 near Dublin, Tex. Drainage Area 6.03 sq. mi.

Staff gage ~~Continuous water-stage recorder~~: ratio ____. Date of last sediment survey none.

Maxima: gage height, 18.8 ft; outflow, 24 c.f.s; surface area, 46.4 acres; contents, 330 acre-feet; on Oct. 10.

Minima: gage height, 10.5 ft; surface area, 11.0 acres; contents, 115 acre-feet; on Sept. 6.

Maximum inflow, ____ c.f.s. (averaged for 5-min. interval and adjusted for rainfall on pool surface) on ____.

Averages: ____ water years, (____); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year.

Pool water budget, in acre-feet, water year October 1961 to September 1962.

	Oct	Nov.	Dec.	Calendar year 1961	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept	Water year 1962
Total Inflow 1/	26.7	19.2	3.4	54.3	15.5	5.9	4.5	17.8	2.7	2.6	0.8	1.0	16.3	50.3
Total Outflow	22.2	10.2	3.6	41.0	2.4	0	0	3.6	1.4	0	9.7	1.4	98.8	35.8
Total Consumption	12.6	9.8	4.7	13.9	10.3	8.2	10.0	12.8	19.9	19.1	17.1	18.4	10.8	15.4
†	+45.0	+5.0	-3.0	+61.0	-2.0	0	-5.0	+10.0	-17.0	-12.0	-24.0	-18.0	+61.0	+40.0
‡	26.2	25.9	26.1	23.1	25.6	25.5	25.1	25.7	24.3	20.1	15.6	13.4	21.5	22.9
††	5.31	2.73	.87	32.41	.08	1.10	.25	4.17	.84	2.55	1.65	.68	6.35	26.58

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, — c.f.s.)

Date	Time	Discharge	Date	Time	Discharge

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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY - TEXAS DISTRICT

WATER BUDGET OF POOLS

ANNUAL SUMMARY

1963 WATER YEAR

8-940. Green Creek subwatershed No. 1 near Dublin, Tex. Drainage Area 3.18 sq. mi.

Continuous water-stage recorder: ratio 1:6. Date of last sediment survey April 9, 1962.

Maxima: gage height, 12.07 ft; outflow, 13.7 c.f.s.; surface area, 46.8 acres; contents, 287 acre-feet; on Oct. 8.

Minima: gage height, 8.70 ft; surface area, 28.9 acres; contents, 159 acre-feet; on Apr. 26.

Maximum inflow, 621 c.f.s. (averaged for 5-min. interval and adjusted for rainfall on pool surface) on April 28, 1963.

Averages: 8 water years, (1955-63); inflow, 570 acre-feet/year; outflow, 411 acre-feet/year; rainfall, 29.82 inches/year.

Pool water budget, in acre-feet, water year October 1962 to September 1963.

	Oct	Nov.	Dec.	Calendar year 1962	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water year 1963
Total Inflow 1/	19.8	5.3	0.2	26.5	0	0	0.1	96.1	69.7	8.3	1.4	0.7	8.2	270
Total Outflow	63.8	0	0	110	0	0	5.0	19.8	40.6	21.5	8.9	0	5.6	165
Total Consumption	23.5	18.6	9.4	239	10.2	11.9	16.4	21.4	36.3	33.4	46.0	43.5	16.7	287
†	+ 8.4	- 8.8	-7.0	7.7	- 9.5	11.7	-20.9	+65.2	+ 7.5	-40.5	-49.2	-39.4	- 9.7	- 116
‡	40.5	39.6	39.0	34.9	37.8	36.6	34.1	31.5	40.3	38.8	32.9	25.3	22.6	34.9
††	4.72	1.39	.68	26.90	.23	.07	.13	4.11	4.40	1.93	1.55	1.72	2.33	23.26

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, 100 c.f.s)

Date	Time	Discharge	Date	Time	Discharge
April 28, 1963	1515	621			

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GEOLOGICAL SURVEY - TEXAS DISTRICT

WATER BUDGET OF POOLS

ANNUAL SUMMARY

1963 WATER YEAR

Green Creek subwatershed No 2 near Dublin, Tex Drainage Area 2.65 sq mi

Staff gage ~~Continuous water-stage recorder~~: ratio ____. Date of last sediment survey none

Maxima: gage height, 15.6 ft; outflow, 13 c.f.s; surface area, 34.2 acres; contents, 131 acre-feet; on Oct. 8

Minima: gage height, 4.5 ft; surface area, 1.0 acres; contents, -8 acre-feet; on Sept. 11, 30

Maximum inflow, ____ c.f.s (averaged for 5-min. interval and adjusted for rainfall on pool surface) on ____

Averages: ____ water years, (____); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year.

Pool water budget, in acre-feet, water year October 1962 to September 1963.

	Oct	Nov	Dec	Calendar year 1962	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Water year 1963
Total Inflow 1/	55.8	13.5	0.7	154	0	0	0	46.4	29.7	3.7	0.4	0.1	2.8	153
Total Outflow	8.0	8.3	6.1	31.4	5.1	2.8	5.2	9.2	15.3	12.5	26.0	14.5	5.5	118
Total Consumption	29.7	11.9	3.8	164	4.4	5.5	9.0	8.8	14.4	15.9	19.4	6.2	1.9	137
†	+29.2	-9.5	-8.6	0	-9.0	-8.2	-14.0	+31.2	+7.3	-20.5	-43.6	-20.2	-4.2	-70.1
‡	27.0	26.3	25.0	19.3	23.0	21.0	18.8	14.7	21.2	23.4	15.5	5.0	1.8	18.6
††	2.99	1.44	.65	27.00	.24	.06	.13	3.28	4.26	2.12	1.26	1.42	3.10	22.95

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, ____ c.f.s)

Date	Time	Discharge	Date	Time	Discharge

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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY - TEXAS DISTRICT

WATER BUDGET OF POOLS

ANNUAL SUMMARY

1963 WATER YEAR

Green Creek subwatershed No 3 near Dublin, Tex Drainage Area 1.53 sq mi.

staff gage
~~Continuous water-stage recorder~~: ratio ____. Date of last sediment survey none.

Maxima: gage height, 17.4 ft; outflow, 22 c f s; surface area, 38.0 acres; contents, 187 acre-feet; on Oct. 8.

Minima: gage height, 10.8 ft; surface area, 12.4 acres; contents, 25.6 acre-feet; on Sept. 11.

Maximum inflow, ____ c f s (averaged for 5-min. interval and adjusted for rainfall on pool surface) on ____.

Averages: ____ water years, (____); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year.

Pool water budget, in acre-feet, water year October 1962 to September 1963.

	Oct	Nov	Dec.	Calendar year 1962	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Water year 1963
Total Inflow 1/	16.1	4.1	2.7	27.9	0	0	0	9.2	24.9	6.9	0	0	29.8	23.9
Total Outflow	14.7	0	0	17.5	0	0	0	0	0	0	0	0	0	14.7
Total Consumption	19.0	12.9	7.9	17.3	6.9	6.1	10.5	15.3	19.5	18.5	28.9	20.4	12.2	17.8
†	+8.0	-5.4	-3.9	-20.3	-6.3	-6.0	-10.2	-3.2	+12.2	-6.8	-27.7	-19.5	+21.2	-47.6
‡	28.0	26.9	26.4	24.4	25.7	24.5	23.3	21.9	20.6	23.2	20.3	15.0	15.3	22.6
††	5.53	1.54	.60	27.20	.27	.04	.14	1.58	3.96	2.52	.68	.82	4.65	22.33

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, ____ c f s)

Date	Time	Discharge	Date	Time	Discharge

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GEOLOGICAL SURVEY - TEXAS DISTRICT

WATER BUDGET OF POOLS

ANNUAL SUMMARY

1963 WATER YEAR

Green Creek subwatershed No 4 near Dublin, Tex. Drainage Area 1.74 sq mi.

Staff gage ~~Continuous water-stage recorder~~: ratio ____. Date of last sediment survey none

Maxima: gage height, 15.1 ft; outflow, 1.1 c.f.s; surface area, 17.0 acres; contents, 49.3 acre-feet; on Oct 28.

Minima: gage height, 11.9 ft; surface area, 6.8 acres; contents, 13.5 acre-feet; on Sept. 11.

Maximum inflow, ____ c.f.s (averaged for 5-min. interval and adjusted for rainfall on pool surface) on ____.

Averages: ____ water years, (____); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year.

Pool water budget, in acre-feet, water year October 1962 to September 1963.

	Oct	Nov.	Dec.	Calendar year 1962	Jan	Feb	Mar	Apr	May	June	July	Aug.	Sept	Water year 1963
Total Inflow 1/	10.2	0.5	0.1	74.3	0	0	0	1.6	2.3	9.5	0	1.3	21.1	53.6
Total Outflow	2.2	0	0	20.1	0	0	0	.2	0	0	1.8	0	0	4.2
Total Consumption	7.8	7.3	4.7	71.3	3.1	3.9	5.8	6.6	4.6	9.0	9.5	9.3	5.1	76.7
†	+6.2	-4.7	-4.3	+5.4	-2.8	-3.8	-5.7	-4.0	+2.9	+3.6	-11.0	-7.2	+20.2	-5.6
‡	15.4	15.5	14.6	10.9	13.6	12.5	11.5	10.2	8.8	12.0	11.2	8.3	6.7	11.7
††	4.78	1.63	.64	27.15	.24	.05	.07	1.52	4.25	3.19	.31	1.25	3.96	21.89

1/ Inflow adjusted for rainfall on pool and pool losses
† Change in contents, in acre-feet
‡ Mean surface area, in acres
†† Weighted mean rainfall, in inches

Peak inflow - (base, ____ c.f.s)

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1963 WATER YEAR

Green Creek subwatershed No. 5 near Dublin, Tex. Drainage Area 2.09 sq. mi.

Staff gage ~~Continuous water-stage recorder~~: ratio ____. Date of last sediment survey none.

Maxima: gage height, 17.3 ft; outflow, 85 c.f.s; surface area, 329 acres; contents, 216 acre-feet; on Oct. 8.

Minima: gage height, 11.8 ft; surface area, 19.6 acres; contents, 76.0 acre-feet; on Sept. 11.

Maximum inflow, ____ c.f.s. (averaged for 5-min. interval and adjusted for rainfall on pool surface) on ____.

Averages: ____ water years, (____); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year.

Pool water budget, in acre-feet, water year October 1962 to September 1963.

	Oct	Nov.	Dec.	Calendar year 1962	Jan.	Feb	Mar	Apr	May	June	July	Aug	Sept	Water year 1963
Total Inflow 1/	148	4.8	0.1	348	0.1	0.1	0.9	0.2	8.8	33.2	4.6	2.0	63.6	266
Total Outflow	134	.2	0	240	0	0	0	2.6	0	0	0	0	0	137
Total Consumption	20.7	10.7	4.2	158	46	7.2	10.2	13.4	15.8	25.8	29.8	15.3	15.2	173
†	+5.0	-3.0	-3.0	+1.0	-4.0	-7.0	-9.0	-13.0	0	+12.0	-24.0	-13.0	+57.0	-2.0
‡	26.6	23.8	23.6	22.6	22.8	22.4	22.2	21.6	21.1	21.5	21.3	20.4	21.8	22.4
††	5.54	1.57	.59	27.04	.27	-.04	.15	1.54	4.01	2.59	.67	.80	4.54	22.31

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, ____ c.f.s)

Date	Time	Discharge	Date	Time	Discharge

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WATER BUDGET OF POOLS

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1963 WATER YEAR

Green Creek subwatershed No 6 near Dublin, Tex. Drainage Area 4.50 sq. mi.

Staff gage ~~Continuous water-stage recorder~~: ratio ____. Date of last sediment survey none.

Maxima: gage height, 7.2 ft; outflow, 0 c.f.s; surface area, 3.7 acres; contents, 8.3 acre-feet; on Oct. 28.

Minima: gage height, dry ft; surface area, 0 acres; contents, 0 acre-feet; on Sept. 11.

Maximum inflow, ____ c.f.s (averaged for 5-min. interval and adjusted for rainfall on pool surface) on ____.

Averages: ____ water years, (____); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year.

Pool water budget, in acre-feet, water year October 1962 to September 1963.

	Oct	Nov.	Dec.	Calendar year 1962	Jan	Feb	Mar	Apr	May	June	July	Aug.	Sept	Water year 1963
Total Inflow 1/	5.3	0.6	0.3	17.6	0	0	0	0	0	0	0	0	0	6.2
Total Outflow	0	0	0	0	0	.7	0	0	0	0	0	0	0	.7
Total Consumption	4.2	3.7	1.8	23.1	1.6	.5	.8	0	0	0	0	0	0	12.6
†	+2.3	-2.7	-1.4	-2.5	-1.6	-1.2	-.8	0	0	0	0	0	0	-5.4
‡	3.1	3.0	2.2	1.5	1.4	.8	.6	0	0	0	0	0	0	.9
††	4.78	1.63	.64	26.65	.24	.05	.07	1.52	4.25	3.19	.31	1.25	3.96	21.89

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, ____ c.f.s)

Date	Time	Discharge	Date	Time	Discharge

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WATER BUDGET OF POOLS

ANNUAL SUMMARY

1963 WATER YEAR

Green Creek subwatershed No. 7 near Dublin, Tex. Drainage Area 3.25 sq. mi.

Staff gage ~~Continuous water-stage recorder~~: ratio ____. Date of last sediment survey none.

Maxima: gage height, 14.7 ft; outflow, 0 c.f.s; surface area, 25.8 acres; contents, 140 acre-feet; on Oct. 8, 28.

Minima: gage height, 6.6 ft; surface area, 6.6 acres; contents, 26.1 acre-feet; on Sept. 11.

Maximum inflow, ____ c.f.s (averaged for 5-min. interval and adjusted for rainfall on pool surface) on ____.

Averages: ____ water years, (____); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year.

Pool water budget, in acre-feet, water year October 1962 to September 1963.

	Oct	Nov.	Dec.	Calendar year 1962	Jan.	Feb	Mar	Apr	May	June	July	Aug.	Sept	Water year 1963
Total Inflow 1/	69.8	0.2	0.8	137	0.3	0	0	0.1	24.6	21.9	0	5.1	10.1	133
Total Outflow	0	0	0	5.2	0	0	2.0	4.0	0	0	2.0	14.9	3.0	25.9
Total Consumption	19.4	14.9	8.9	171	10.8	11.1	8.2	11.1	20.7	18.6	30.5	24.3	5.7	184
†	+59.2	-11.0	-7.0	-5.0	-10.0	-11.0	-9.8	-13.4	+9.3	+7.6	-32.2	-33.1	+3.2	-48.2
‡	22.0	24.4	23.4	18.6	21.6	19.8	18.1	15.9	14.2	16.9	15.2	10.8	7.8	17.5
††	5.27	1.82	.55	25.80	.30	.05	.29	1.25	4.50	3.26	.20	1.19	3.57	2225

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, ____ c.f.s)

Date	Time	Discharge	Date	Time	Discharge

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WATER BUDGET OF POOLS

ANNUAL SUMMARY

1963 WATER YEAR

Green Creek subwatershed No 8 near Dublin, Tex. Drainage Area 6.03 sq mi.

Staff gage ~~Continuous water-stage recorder~~: ratio ____. Date of last sediment survey none.

Maxima: gage height, 18.2 ft; outflow, 22 c.f.s; surface area, 446 acres; contents, 302 acre-feet; on Oct. 8.

Minima: gage height, 12.2 ft; surface area, 14.4 acres; contents, 137 acre-feet; on Sept. 11, 30.

Maximum inflow, ____ c.f.s (averaged for 5-min. interval and adjusted for rainfall on pool surface) on ____.

Averages: ____ water years, (____); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year.

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Pool water budget, in acre-feet, water year October 1962 to September 1963.

	Oct	Nov.	Dec.	Calendar year 1962	Jan.	Feb	Mar	Apr	May	June	July	Aug.	Sept	Water year 1963
Total Inflow 1/	230	16.1	5.9	466	0.1	0	7.2	1.1	256	61.8	1.8	4.8	0.5	355
Total Outflow	212	11.7	3.7	350	13.9	0	0	0	0	42.0	0	0	4.4	288
Total Consumption	18.3	10.4	7.3	163	4.8	5.1	9.6	9.8	10.9	16.6	23.2	18.9	13.5	148
†	+12.0	-2.0	-4.0	-1.0	-18.0	-5.0	-2.0	-7.7	+21.0	+8.0	-21.0	-13.0	-13.0	-44.0
‡	28.2	26.1	26.9	23.1	24.1	19.8	19.5	18.1	16.8	22.1	22.1	17.2	15.0	21.2
††	5.50	1.86	.49	25.52	.31	.05	.25	1.16	4.52	3.39	.22	.82	3.39	21.96

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, ____ c.f.s)

Date	Time	Discharge	Date	Time	Discharge

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WATER BUDGET OF POOLS

ANNUAL SUMMARY

1966 WATER YEAR

8-0940. Green Creek subwatershed No 1 near Dublin, Tex. Drainage Area 3.18 sq mi

Continuous water-stage recorder: ratio 10:12. Date of last sediment survey Apr. 9, 1962.

Maxima: gage height, 11.94 ft; outflow, 13.5 c.f.s; surface area, 44.8 acres; contents, 281 acre-feet; on June 13, 1966

Minima: gage height, 7.14 ft; surface area, 23.1 acres; contents, 119 acre-feet; on Apr. 22, 1966.

Maximum inflow, 645 c.f.s (averaged for 5-min. interval and adjusted for rainfall on pool surface) on Apr. 30, 1966.

Averages: 11 water years, (1955-66); inflow, 564 acre-feet/year; outflow, 395 acre-feet/year; rainfall, 29.99 inches/year.

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Pool water budget, in acre-feet, water year October 1965 to September 1966.

	Oct	Nov	Dec	Calendar year 1965	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Water year 1966
Total Inflow 1/	10.3	2.1	1.2	367	2.6	1.7	0.9	87.3	25.2	79.5	3.1	6.0	43.7	264
Total Outflow	0	0	0	297	0	0	0	0	.6	49.8	0	0	0	50.4
Total Consumption	15.7	9.6	5.9	248	8.6	5.7	12.0	13.0	26.1	29.9	37.4	29.3	21.1	214
†	+1.4	-3.0	-0.8	-80.6	-3.9	-1.3	-11.0	+87.2	+1.1	+12.0	-31.8	-12.0	+38.0	75.9
‡	27.1	27.3	26.7	—	26.2	25.9	25.1	23.7	39.6	39.3	37.4	34.1	37.0	—
††	3.01	1.96	1.74	26.05	0.96	1.25	0.04	6.24	0.82	3.82	0.85	4.00	5.35	30.04

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, 100 c.f.s)

Date	Time	Discharge	Date	Time	Discharge
4-30	1415	645			
5-1	0540	113			
6-13	0300	285			

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WATER BUDGET OF POOLS

ANNUAL SUMMARY

1966 WATER YEAR

Green Creek subwatershed No 2 near Dublin, Tex Drainage Area 2.65 sq mi

Staff gage ~~Continuous water-stage recorder~~ ratio ____. Date of last sediment survey none.

Maxima: gage height, 15.2; outflow, 3.0 c.f.s; surface area, 31.4 acres; contents, 117 acre-feet; on June 14

Minima: gage height, 7.9; surface area, 4.4 acres; contents, 8.3 acre-feet; on Apr. 20

Maximum inflow, ____ c.f.s (averaged for 5-min. interval and adjusted for rainfall on pool surface) on ____

Averages: ____ water years, (____); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year

Pool water budget, in acre-feet, water year October 1965 to September 1966.

	Oct	Nov	Dec.	Calendar year 1965	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water year 1966
Total Inflow 1/	0.7	0.8	0.2	387	0.4	1.0	0.8	47.7	29.7	61.3	0.1	21.4	35.9	200
Total Outflow	0	0	0	391	0	0	0	0	7.3	23.2	32.4	22.0	0	84.9
Total Consumption	3.5	2.0	1.2	132	1.2	1.1	1.9	2.3	3.1	23.0	23.5	15.0	12.8	90.6
†	-1.5	0	0	88.6	-.5	+.5	-1.0	+48.5	+20.7	+23.1	-54.5	-10.3	+28.8	56.8
‡	5.2	5.0	5.0	18.6	4.9	4.9	4.8	4.6	4.9	14.2	21.0	14.3	17.1	106
††	2.91	2.22	1.82	26.47	.92	1.38	.12	6.06	.74	4.21	.76	4.30	4.86	30.30

1/ Inflow adjusted for rainfall on pool and pool losses
† Change in contents, in acre-feet
‡ Mean surface area, in acres
†† Weighted mean rainfall, in inches

Peak inflow - (base, ____ c.f.s)

Date	Time	Discharge	Date	Time	Discharge

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WATER BUDGET OF POOLS

ANNUAL SUMMARY

1966 WATER YEAR

Green Creek subwatershed No. 3 near Dublin, Tex. Drainage Area 1.53 sq mi

Staff gage ~~Continuous water-stage recorder~~: ratio ____. Date of last sediment survey none.

Maxima: gage height, 15.1; outflow, .6 c.f.s; surface area, 28.4 acres; contents, 111 acre-feet; on June 14

Minima: gage height, 10.8; surface area, 12.4 acres; contents, 25.6 acre-feet; on Apr. 16.

Maximum inflow, ____ c.f.s (averaged for 5-min. interval and adjusted for rainfall on pool surface) on ____

Averages: ____ water years, (____); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year

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Pool water budget, in acre-feet, water year October 1965 to September 1966.

	Oct	Nov	Dec.	Calendar year 1965	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water year 1966
Total Inflow 1/	5.0	3.1	0.6	241	0.1	1.6	2.6	26.2	32.7	42.6	0.1	26.9	17.5	159
Total Outflow	0	0	0	192	0	0	0	0	0	3.3	0	8.5	0	11.8
Total Consumption	10.8	5.0	3.0	165	2.6	3.6	7.1	8.2	14.4	20.1	25.1	21.2	12.8	135
†	-2.3	+1.5	0	-64.9	-1.5	0	-4.2	+24.0	+20.5	+26.6	-24.4	+7.0	+12.6	+59.8
‡	14.8	14.8	14.8	22.2	14.5	14.2	14.2	13.0	24.0	25.2	25.2	23.6	25.6	18.7
††	2.72	2.74	1.98	27.33	.85	1.64	.27	5.70	.59	5.00	.58	4.91	3.86	30.84

1/ Inflow adjusted for rainfall on pool and pool losses
† Change in contents, in acre-feet
‡ Mean surface area, in acres
†† Weighted mean rainfall, in inches

Peak inflow - (base, ____ c.f.s)

Date	Time	Discharge	Date	Time	Discharge

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1966 WATER YEAR

Green Creek subwatershed No. 4 near Dublin, Tex. Drainage Area 1.74 sq mi

Staff gage
~~Continuous water-stage recorder~~; ratio ____. Date of last sediment survey none.

Maxima: gage height, 13.2; outflow, 0 c.f.s; surface area, 10.1 acres; contents, 29.3 acre-feet; on May 2

Minima: gage height, 10.2; surface area, 4.2 acres; contents, 4.8 acre-feet; on Apr. 25

Maximum inflow, ____ c.f.s (averaged for 5-min. interval and adjusted for rainfall on pool surface) on ____

Averages: ____ water years, (____); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year

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Pool water budget, in acre-feet, water year October 1965 to September 1966.

	Oct	Nov	Dec.	Calendar year 1965	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept	Water year 1966
Total Inflow 1/	2.3	0.8	0	20.9	1.0	0.1	0	8.2	11.0	4.2	0.1	6.1	8.2	42.0
Total Outflow	0	0	0	17.2	0	0	0	1.0	3.0	1.4	1.6	2.8	0	9.8
Total Consumption	3.1	1.5	1.4	82.1	1.4	1.4	2.2	2.8	5.5	6.5	5.5	4.2	4.0	39.5
†	+.6	+.6	-.6	17.8	0	-.6	-2.0	+5.7	+2.9	-1.5	-6.6	+1.5	+6.6	+6.6
‡	5.8	6.0	6.0	9.6	5.8	5.6	5.2	4.6	9.2	7.4	6.2	5.2	6.6	23.6
††	2.74	2.61	1.90	30.22	.87	1.53	.32	1.24	.52	3.55	.93	5.08	4.74	26.03

1/ Inflow adjusted for rainfall on pool and pool losses
† Change in contents, in acre-feet
‡ Mean surface area, in acres
†† Weighted mean rainfall, in inches

Peak inflow - (base, ____ c.f.s)

Date	Time	Discharge	Date	Time	Discharge

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WATER BUDGET OF POOLS

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1966 WATER YEAR

. Green Creek subwatershed No. 5 near Dublin, Tex. Drainage Area 2.09 sq. mi.

Staff gage ~~Continuous water-stage recorder~~: ratio ____. Date of last sediment survey none.

Maxima: gage height, 16.4 ft; outflow, 8.2 c.f.s.; surface area, 30.2 acres; contents, 187 acre-feet; on June 14.

Minima: gage height, 11.4 ft; surface area, 18.5 acres; contents, 68.1 acre-feet; on Apr 25.

Maximum inflow, ____ c.f.s. (averaged for 5-min. interval and adjusted for rainfall on pool surface) on ____.

Averages: ____ water years, (____); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year.

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Pool water budget, in acre-feet, water year October 1965 to September 1966.

	Oct	Nov.	Dec.	Calendar year 1965	Jan.	Feb.	Mar.	Apr.	May.	June	July	Aug.	Sept	Water year 1966
Total Inflow 1/	6.0	5.1	0.6	215	0.6	8.2	0	47.8	47.1	96.4	0.1	28.5	7.0	247
Total Outflow	0	0	0	174	0	0	0	0	8.0	77.6	0	1.3	1.8	88.7
Total Consumption	10.7	7.6	4.0	160	4.0	5.0	8.4	12.4	23.2	19.1	23.2	14.6	13.1	145
†	-.2	+2.0	0	-62.5	-2.0	+6.0	-8.0	+41.0	+17.0	10.0	-22.0	+22.0	0	66.2
‡	19.8	20.1	20.1	22.6	19.8	20.1	20.0	19.1	23.9	23.9	22.5	23.4	23.9	21.3
††	2.73	2.73	1.99	27.52	.85	1.67	.27	5.62	.58	4.93	.60	4.90	3.90	30.77

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, — cfs)

Date	Time	Discharge	Date	Time	Discharge

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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY - TEXAS DISTRICT

WATER BUDGET OF POOLS

ANNUAL SUMMARY

1966 WATER YEAR

Green Creek subwatershed No. 6 near Dublin, Tex. Drainage Area 1.50 sq mi

~~Continuous water-stage recorder~~ staff gage; ratio _____. Date of last sediment survey none.

Maxima: gage height, 10.0; outflow, 0 c.f.s; surface area, 6.0 acres; contents, 16.8 acre-feet; on Oct. 1

Minima: gage height, 3.2; surface area, .3 acres; contents, .2 acre-feet; on Aug. 12

Maximum inflow, _____ c.f.s. (averaged for 5-min. interval and adjusted for rainfall on pool surface) on _____

Averages: ___ water years, (_____); inflow, _____ acre-feet/year; outflow, _____ acre-feet/year; rainfall, _____ inches/year

Pool water budget, in acre-feet, water year October 1965 to September 1966

	Oct	Nov.	Dec.	Calendar year 1965	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept	Water year 1966
Total Inflow 1/	0.9	0.4	0.2	110	0	0	0	3.3	0.6	0.6	0	0.3	0.3	6.6
Total Outflow	0	0	0	63.0	0	0	0	0	0	0	0	0	0	0
Total Consumption	4.7	5.4	2.5	105	2.1	1.6	1.7	2.2	3.9	2.3	2.5	.6	.7	30.2
†	-2.7	-2.8	-1.6	4.3	-1.8	-1.2	-1.6	+2.2	-3.2	-1.2	-2.5	-.1	+.3	-16.0
‡	5.7	4.4	3.9	105	3.3	2.9	2.3	2.7	2.8	1.7	1.5	.4	.5	2.7
††	2.74	2.61	1.90	30.22	.87	1.53	.32	5.14	.52	3.55	.93	5.08	4.74	29.93

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet
‡ Mean surface area, in acres
†† Weighted mean rainfall, in inches

Peak inflow - (base, ____ c.f.s)

Date	Time	Discharge	Date	Time	Discharge

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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY - TEXAS DISTRICT

WATER BUDGET OF POOLS

ANNUAL SUMMARY

1966 WATER YEAR

____ Green Creek subwatershed No. 7 near Dublin, Tex Drainage Area 3.25 sq mi

Staff gage
~~Continuous water stage recorder~~; ratio ____. Date of last sediment survey none.

Maxima: gage height, 11.0; outflow, 0 c.f.s; surface area, 14.0 acres; contents, 70.6 acre-feet; on May 1

Minima: gage height, 7.8; surface area, 8.6 acres; contents, 34.3 acre-feet; on Aug. 12

Maximum inflow, ____ c.f.s (averaged for 5-min. interval and adjusted for rainfall on pool surface) on ____

Averages: ___ water years, (____); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year

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Pool water budget, in acre-feet, water year October 1965 to September 1966

	Oct	Nov	Dec	Calendar year 1965	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Water year 1966
Total Inflow 1/	4.7	6.0	.7	380	0	8.1	1.5	19.5	15.0	12.4	.1	13.2	26.5	108
Total Outflow	0	0	0	383	0	0	0	2.8	4.8	6.0	5.7	1.0	0	20.3
Total Consumption	7.8	6.3	3.4	148	4.9	4.7	4.9	5.7	9.5	12.5	13.9	12.5	10.9	97.0
†	-.9	+2.2	-1.1	90.1	-4.1	+5.2	-3.2	+15.8	+1.3	-2.5	-8.6	+3.6	+19.7	+25.1
‡	10.8	11.4	11.2	200	10.6	11.0	10.8	10.0	13.6	12.5	11.6	10.0	12.1	13.6
††	2.71	2.66	1.99	30.52	.38	2.01	.29	5.45	.55	3.59	.96	4.94	4.05	36.07

1/ Inflow adjusted for rainfall on pool and pool losses
† Change in contents, in acre-feet
‡ Mean surface area, in acres
†† Weighted mean rainfall, in inches

Peak inflow - (base, ____ c.f.s)

Date	Time	Discharge	Date	Time	Discharge

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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY - TEXAS DISTRICT

WATER BUDGET OF POOLS

ANNUAL SUMMARY

1966 WATER YEAR

Green Creek subwatershed No. 8 near Dublin, Tex. Drainage Area 6.03 sq mi

Staff gage ~~Continuous water-stage recorder~~; ratio ____. Date of last sediment survey none.

Maxima: gage height, 16.2; outflow, 40.3 c.f.s; surface area, 34.2 acres; contents, 223 acre-feet; on May 1

Minima: gage height, 12.1; surface area, 14.2 acres; contents, 135 acre-feet; on Oct. 17

Maximum inflow, ____ c.f.s. (averaged for 5-min. interval and adjusted for rainfall on pool surface) on ____

Averages: ____ water years, (____); inflow, ____ acre-feet/year; outflow, ____ acre-feet/year; rainfall, ____ inches/year

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Pool water budget, in acre-feet, water year October 1965 to September 1966.

	Oct	Nov	Dec.	Calendar year 1965	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept	Water year 1966
Total Inflow 1/	3.4	5.8	1.6	151.0	1.0	12.4	2.8	46.7	76.2	84.3	4.4	34.8	24.3	303
Total Outflow	0	0	0	147.0	.8	.6	0	0	74.8	62.0	0	0	13.7	154
Total Consumption	7.6	6.5	3.6	157	3.5	4.8	8.3	9.9	21.4	21.6	33.0	23.8	13.3	157
†	-.3	+3.0	+1.0	-46.5	-2.0	+15.0	-5.0	+44.0	-17.0	+7.0	-27.0	+21.0	+7.0	48.7
‡	16.9	17.5	17.8	24.1	17.5	19.4	20.3	19.8	27.4	27.0	25.0	23.8	26.6	21.6
††	2.79	2.59	2.02	29.91	.39	1.98	.28	4.61	.48	3.92	.81	4.87	4.37	29.61

1/ Inflow adjusted for rainfall on pool and pool losses.
† Change in contents, in acre-feet.
‡ Mean surface area, in acres.
†† Weighted mean rainfall, in inches.

Peak inflow - (base, ____ c.f.s)

Date	Time	Discharge	Date	Time	Discharge

8-0945. Green Creek near Alexander, Tex.

Location.--Lat 32°04'20", long 98°14'00", at downstream side of bridge on State Highway 6, 0.2 mile upstream from Missouri, Kansas, Texas Railroad Co. bridge, 1.0 mile upstream from Cottonwood Creek, and 1.7 miles northwest of Alexander, Erath County.

Drainage area.--45.5 sq mi.

Records available.--October 1954 to April 1958 (annual maximum only), May 1958 to September 1966.

Gage.--Water-stage recorder and crest-stage gage. Datum of gage is 1,172 ft above mean sea level, datum of 1929, Fort Worth supplementary adjustment of 1942. Prior to May 27, 1958, crest-stage gage only.

Average discharge.--8 years, 5.02 cfs (3,630 acre-ft per year).

Extremes.--Maximum discharge during year, 1,590 cfs Aug. 14 (gage height, 9.82 ft in gage well, 9.44 ft adjusted from drawdown curve); no flow most of year.
1954-66: Maximum discharge, 23,900 cfs Apr. 30, 1956 (gage height, 23.95 ft); no flow at times each year.
Maximum stage since at least 1910, 28.0 ft May 23, 1952 (discharge, 58,600 cfs, from contracted-opening measurement).

Remarks.--Records fair. Flow from 22.0 sq mi above this station is partly controlled by eight floodwater-retarding structures with a total combined capacity of 7,840 acre-ft below flood spillway crests, of which 6,864 acre-ft is floodwater-retarding capacity and 976 acre-ft is sediment-pool capacity. Capacity in these pools allocated to sediment storage will be used for conservation storage until eliminated by sedimentation. Eleven rain gages (8 standard and 3 recording) are operated in the basin.

Discharge, in cubic feet per second, water year October 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					0		0	70	0.01	0.01	0	0
2					0		0	20	.01	.01	0	0
3					0		0	9.9	.01	.01	0	0
4					0		0	4.9	0	.01	0	0
5					0		0	2.6	0	0	0	0
6					0		0	1.6	0	0	0	0
7					0		0	1.1	0	0	0	0
8					0		0	.37	0	0	0	0
9					28		0	.11	0	0	0	3.4
10					.59		0	.10	0	0	0	.30
11					.02		0	.09	0	0	0	.04
12					.01		0	.05	0	0	0	.01
13					0		0	.05	228	0	0	.01
14					0		0	.06	40	0	143	.01
15					0		0	.06	19	0	3.7	2.2
16					0		0	.05	9.9	0	.33	17
17					0		.01	.04	3.6	0	.04	2.7
18					0		.01	.04	14	0	.01	24
19					0		.01	.04	4.8	0	.01	6.9
20					0		0	.03	1.5	0	0	2.2
21					0		0	.02	.60	0	0	.77
22					0		.01	.02	.28	0	0	.34
23					0		.02	.02	.14	0	0	.18
24					0		.02	.01	.12	.01	0	.06
25					0		.08	.01	.08	.01	0	.02
26					0		2.3	.01	.05	0	0	.01
27					0		.07	.01	.03	0	0	0
28					0		.04	.01	.02	0	0	0
29							7.1	.01	.02	0	0	0
30							136	.01	.01	0	0	0
31								.01		0	0	
Total	0	0	0	0	28.62	0	145.67	111.33	322.18	0.06	147.09	60.15
Mean	0	0	0	0	1.02	0	4.86	3.59	10.7	0.002	4.74	2.00
Ac-ft	0	0	0	0	57	0	289	221	639	0.1	292	119
(†)	479	482	479	463	487	450	720	784	837	650	884	797
(††)	2.74	2.53	1.96	.89	1.85	0.26	3.56	.57	4.02	0.62	4.42	4.35

Calendar year 1965 : Max 597 Min 0 Mean 9.38 Ac-ft 6,790 †† 28.89
Water year 1965-66 : Max 228 Min 0 Mean 2.23 Ac-ft 1,620 †† 30.35

† Contents, in acre-feet, at end of month in Soil Conservation pools upstream from station.
†† Weighted mean rainfall, in inches.

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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY-AUSTIN DISTRICT

RAINFALL DATA SUMMARY

STUDY AREA Green Creek — 1966 WATER YEAR

RAIN GAGES

Date of storm	1-R	2-S	3-S	4-S	5-S	6-S	7-R	8-S	9-S	10-S			Avg.							By
Oct. 3-4, 1965	0.65	0.68	0.69	0.72	0.69	0.73	0.75	0.73	0.81	0.79										BSH EEL
4	.31	.23	.25	.22	.18	.17	.12	.12	.13	.13										
18	2.05	1.81	1.80	1.90	1.65	1.67	1.73	2.00	1.70	2.18										
Oct. Total	3.01	2.72	2.74	2.84	2.52	2.57	2.60	2.85	2.64	3.10			2.71							
Nov. 3	.68	.94	.90	.87	.94	.94	.85	.80	.87	.82										
8	1.28	1.80	1.71	1.68	1.85	1.87	1.71	1.63	1.76	1.66										
Nov. Total	1.96	2.74	2.61	2.55	2.79	2.81	2.56	2.43	2.63	2.48			2.57							
Dec. 1	.09	.10	.09	.10	.09	.10	.10	.11	.11	.12										
2	.89	1.00	.99	1.11	1.01	1.10	1.16	1.31	1.29	1.42										
10	.14	.19	.17	.18	.28	(.15)	.12	.19	.20	.26										
17	.08	.12	.09	.12	.13	.14	.18	.22	.24	.21										
18	.05	.09	.07	.09	.10	.11	.15	.18	.20	.17										
18-19	.44	.39	.36	.37	.35	.36	.31	.37	.41	.36										
23	.05	.09	.13	.09	.10	(.10)	.01	.06	.08	.06										
Dec. Total	1.74	1.98	1.90	2.06	2.06	2.06	2.03	2.44	2.53	2.60			1.98							
Cal. yr. Total	26.05	27.33	30.22	29.73	29.54	31.54	32.33	29.64	33.77	29.79			29.51							
Jan. 2, 1966	.03	.08	.09	.04	.05	.03	.03	.06	.06	.05										
18	.15	.12	.12	.14	.14	.14	(.10)	.12	.13	.10										
19	.40	.35	.34	.40	.41	.41	(.31)	.36	.41	.32										
21	.05	.08	.06	.09	.11	.11	.10	.12	.13	.10										
22	.08	.04	.04	.04	.03	.02	0	0	0	0										
23	.12	.06	.08	.06	.04	.03	0	0	0	0										
28	.13	.12	.14	.13	.15	.14	.11	.22	.18	.24										
Jan. Total	.96	.85	.87	.90	.93	.88	.65	.88	.91	.81			0.86							
Feb. 8	0	.17	.12	.29	.39	.52	.90	.52	.71	.39										
9	.75	.95	.96	1.30	1.35	1.48	1.55	.89	1.21	.66										
23	.13	.05	.05	.07	.06	.01	.10	.06	.05	.05										
26	.37	.47	.40	.44	.42	.48	.55	.76	.61	.82										
Feb. Total	1.25	1.64	1.53	2.10	2.22	2.49	3.10	2.23	2.58	1.92			2.05							
Mar. 12	0	.09	.06	.05	.17	.13	.20	.28	.04	.76										
28	.04	.18	.26	.22	.13	.13	.21	.50	.15	.74										
Mar. Total	.04	.27	.32	.27	.30	.26	.41	.78	.19	1.50			0.27							

Note: Average monthly rainfall was computed from rain gages 1-R through 7-S only.

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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY-AUSTIN DISTRICT

RAINFALL DATA SUMMARY

STUDY AREA Green Creek — 1966 WATER YEAR

RAIN GAGES

Date of storm	1-R	2-S	3-S	4-S	5-S	6-S	7-R	8-S	9-S	10-S	Avg.	By BBH EEL
Apr. 13	.15	0.17	0.11	0.12	0.07	0.07	0.05	0.03	0.04	0.05		
17	.69	.93	.59	.20	.41	.44	.39	.22	.31	.43		
22	.78	.59	.69	.55	.69	.63	.50	.40	.58	.46		
23-24	.42	.57	.58	.61	.87	.89	1.05	.86	1.27	1.00		
24-25	1.05	.94	1.04	.93	1.24	1.19	1.17	.94	1.40	1.11		
28	.28	.44	.33	.44	.59	.78	.90	.94	.79	1.07		
29	.70	.68	.56	.63	.79	.98	1.00	1.05	.88	1.19		
30	2.17	1.38	1.24	1.14	1.31	1.45	1.04	1.13	.93	1.27		
Apr. Total	6.24	5.70	5.14	4.62	5.97	6.43	6.10	5.57	6.20	6.58	5.74	
May 1	.82	.54	.49	.45	.53	.60	.46	.51	.42	.57		
22	0	.05	.03	0	0	.05	.03	.45	.25	.34		
May Total	.82	.59	.52	.45	.53	.65	.49	.96	.67	.91	.58	
June 13	3.55	4.00	2.53	3.52	3.30	2.15	2.60	3.60	1.75	3.25		
17	0	.08	.07	.07	.15	.17	.10	.21	.09	.12		
18	.27	.92	.95	.48	.95	.94	.35	.75	.31	.42		
24	0	0	0	0	0	0	.13	0	0	0		
June Total	3.82	5.00	3.55	4.07	4.40	3.26	3.18	4.56	2.15	3.79	3.90	
July 7	0	.35	.18	.52	.02	.60	.05	.26	.30	.19		
25	.85	.08	.25	.05	.06	.30	1.70	2.28	.73	1.58		
30	0	.15	.50	.22	.17	.23	.60	.07	.10	.50		
July Total	.85	.58	.93	.79	.25	1.13	2.35	2.61	1.13	2.27	.98	
Aug. 7	.06	.05	.20	.20	.16	.65	.80	.65	.77	.70		
11	.20	.25	.27	.21	.24	.19	.17	.16	.20	.15		
13	.30	.35	.39	.29	.31	.24	.15	.16	.20	.15		
13-14	1.70	2.73	2.76	2.57	3.09	2.69	2.96	2.85	3.68	2.66		
24	.95	.88	.91	.56	.44	.37	.62	.47	.51	.38		
29	.79	.65	.55	.94	.88	.77	.54	1.51	.67	.71		
Aug. Total	4.00	4.91	5.08	4.77	5.12	4.91	5.24	5.80	6.03	4.75	4.86	

Note: Average monthly rainfall was computed from rain gages 1-R through 7-S only.

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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY-AUSTIN DISTRICT

RAINFALL DATA SUMMARY

STUDY AREA Green Creek — 1966 WATER YEAR

RAIN GAGES

Date of storm	1-R	2-S	3-S	4-S	5-S	6-S	7-R	8-S	9-S	10-S			Avg.							By BBH
Sept. 3	0.85	0.18	0.28	0.20	0.21	0.14	.05	0.08	0.65	0.70										
8-9	2.10	1.31	1.80	2.00	2.00	.49	.85	.64	.44	.69										
14	.50	.36	.44	.38	.22	.26	.17	.26	.19	.39										
15	1.25	1.31	1.46	1.22	.99	1.38	1.48	2.34	1.66	3.47										
17	.65	.67	.75	.62	.50	.70	.74	1.17	.83	1.74										
27	0	.03	.01	.02	.04	.05	.12	1.81	.76	.84										
Sept. Totals	5.35	3.86	4.74	4.36	3.96	3.02	3.41	6.30	4.53	7.33			4.10							
1966 Water Yrs Totals	30.04	30.84	29.93	29.78	31.05	30.46	32.12	37.41	32.19	38.04			30.59							

Note: Average monthly rainfall was computed from rain gages 1-R through 7-S only.

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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY-AUSTIN DISTRICT

RAINFALL DATA SUMMARY

STUDY AREA Green Creek

1966 WATER YEAR

RAIN GAGES

Date of storm	1-R	1-R x .171	2-S	2-S x .183	3-S	3-S x .195	4-S	4-S x .188	5-S	5-S x .161	6-S	6-S x .030	7-R	7-R x .072			Monthly WMR		By
1965																			
October	3.01		2.72		2.74		2.84		2.52		2.57		2.60						
WMR		.51		.50		.53		.53		.41		.08		.19			2.75		
November	1.96		2.74		2.61		2.55		2.79		2.81		2.56						
WMR		.34		.50		.51		.48		.45		.08		.18			2.54		
December	1.74		1.98		1.90		2.06		2.06		2.06		2.03						
WMR		.30		.36		.37		.39		.33		.06		.15			1.96		
Cal. Yr. Total																	28.91		
1966																			
January	.96		.85		.87		.90		.93		.88		.65						
WMR		.16		.16		.17		.17		.15		.03		.05			.89		
February	1.25		1.64		1.53		2.10		2.22		2.49		3.10						
WMR		.21		.30		.30		.39		.36		.07		.22			1.85		
March	.04		.27		.32		.27		.30		.26		.41						
WMR		.01		.05		.06		.05		.05		.01		.03			.26		
April	6.24		5.70		5.14		4.62		5.97		6.43		6.10						
WMR		1.07		1.04		1.00		.87		.96		.19		.44			5.57		
May	.82		.59		.52		.45		.53		.65		.49						
WMR		.14		.11		.10		.08		.09		.02		.04			.58		
June	3.82		5.00		3.55		4.07		4.40		3.26		3.18						
WMR		.65		.92		.69		.77		.71		.10		.23			4.07		
July	.85		.58		.93		.79		.25		1.13		2.35						
WMR		.15		.11		.18		.15		.04		.03		.17			.83		
August	4.00		4.91		5.08		4.77		5.12		4.91		5.24						
WMR		.68		.90		.99		.90		.82		.15		.38			4.82		
September	5.35		3.86		4.74		4.36		3.96		3.02		3.41						
WMR		.91		.71		.92		.82		.64		.09		.25			4.34		
Wtr. Yr. Total																	30.46		

Form A-64
(Rev. 6-62)

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY - AUSTIN DISTRICT

Sheet ____ of ____

INFLOW AND OUTFLOW COMPUTATIONS

Storm period Apr. 30, 1966

8-0940. Green Creek subwatershed No. 1 near Dublin, Tex. D.A. 3.18 sq mi

Date and time	Gage height ft	Storage ac-ft	Time int. hrs	Change in storage ac-ft	Change in storage cfs	Mean G. Ht. ft	Outflow cfs	Total inflow cfs	Rainfall on Pool in	Rainfall on Pool area ac	Rainfall on Pool Storage ac-ft	Rainfall on Pool Storage cfs	Net Inflow Rate cfs	Net Inflow Rate in/hr	Net Inflow in	Net Inflow Acc in
						April 30										
0000	7.54	128.63														
0300	7.54	128.63	3.00	0		7.54		0	0	24.4	0	0		0	0	0
0600	7.55	128.87	3.00	+ .24	+ 1.0	7.54		1.0	0	24.4	0	0	1.0	.0005	.0015	.0015
1100	7.55	128.87	5.00	0	0	7.55		0	0	24.4	0	0	0	0	0	.0015
1230	7.55	128.87	1.50	0	0	7.55		0	.02	24.4	.04	.3	0	0	0	.0015
1245	7.56	129.11	.25	+ .24	+ 11.6	7.56		11.6	.27	24.4	.55	26.6	0	0	0	.0015
1315	7.70	132.56	.50	+ 3.45	+ 83.5	7.63		83.5	1.46	24.7	3.01	72.8	10.7	.0052	.0026	.0041
1320	7.75	133.82	.083	+ 1.26	+ 183	7.72		183	0	25.0	0	0	183	.0891	.0074	.0115
1325	7.81	135.32	.083	+ 1.50	+ 218	7.78		218	0	25.2	0	0	218	.1062	.0088	.0203
1330	7.88	137.10	.083	+ 1.78	+ 258	7.84		258	0	25.4	0	0	258	.1256	.0104	.0307
1335	7.96	139.16	.083	+ 2.06	+ 299	7.92		299	0	25.7	0	0	299	.1456	.0121	.0428
1340	8.05	141.50	.083	+ 2.34	+ 340	8.00		340	0	26.0	0	0	340	.1656	.0137	.0565
1345	8.15	144.14	.083	+ 2.64	+ 383	8.10		383	.02	26.4	.04	5.8	377	.1836	.0152	.0717
1350	8.26	147.09	.083	+ 2.95	+ 428	8.20		428	.03	26.8	.07	10.2	418	.2036	.0169	.0886
1355	8.38	150.36	.083	+ 3.27	+ 475	8.32		475	.05	27.3	.11	16.0	459	.2235	.0186	.1072
1400	8.51	153.97	.083	+ 3.61	+ 524	8.44		524	0	27.8	0	0	524	.2552	.0212	.1284
1405	8.64	157.66	.083	+ 3.69	+ 536	8.58		536	.03	28.4	.07	10.2	526	.2562	.0213	.1497
1410	8.78	161.72	.083	+ 4.06	+ 590	8.71		590	.02	29.0	.05	7.3	583	.2839	.0236	.1733
1415	8.93	166.18	.083	+ 4.46	+ 648	8.86		648	.01	29.7	.02	2.9	645	.3141	.0261	.1994
1420	9.05	169.83	.083	+ 3.65	+ 530	8.99		530	.03	30.4	.08	11.6	518	.2523	.0209	.2203
1425	9.14	172.61	.083	+ 2.78	+ 404	9.10		404	.06	30.9	.15	21.8	382	.1860	.0154	.2357
1430	9.22	175.11	.083	+ 2.50	+ 363	9.18		363	.02	31.4	.05	7.3	356	.1734	.0144	.2501
1445	9.41	181.21	.25	+ 6.10	+ 295	9.32		295	.04	32.1	.11	5.3	290	.1412	.0353	.2854
1500	9.54	185.51	.25	+ 4.30	+ 208	9.48		208	.01	33.1	.03	1.5	206	.1003	.0251	.3105
1515	9.67	189.91	.25	+ 4.40	+ 213	9.60		213	0	33.8	0	0	213	.1037	.0259	.3364
1545	9.86	196.51	.50	+ 6.60	+ 160	9.76		160	0	34.7	0	0	160	.0779	.0390	.3754
1600	9.93	198.99	.25	+ 2.48	+ 120	9.90		120	.02	35.5	.06	2.9	117	.0570	.0142	.3896
1700	10.12	205.88	1.00	+ 6.89	+ 83.4	10.02		83.4	.08	36.2	.24	2.9	80.5	.0392	.0392	.4288
1800	10.22	209.58	1.00	+ 3.70	+ 44.8	10.17		44.8	0	37.0	0	0	44.8	.0218	.0218	.4506
2100	10.34	214.09	3.00	+ 4.51	+ 18.2	10.28		18.2	0	37.6	0	0	18.2	.0089	.0267	.4773
2400	10.38	215.69	3.00	+ 1.51	+ 6.1	10.36		6.1	0	37.9	0	0	6.1	.0030	.0090	.4863

Computed by DEL
Checked by FAP

Form A-64
(Rev. >-<)

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY - TEXAS DISTRICT

Sheet ____ of ____

INFLOW AND OUTFLOW COMPUTATIONS

Storm period Apr. 30, May 1

8-0940. Green Creek subwatershed No. 1 near Dublin, Tex. D.A. 3.18 sq mi

Date and time	Gage height ft	Storage ac-ft	Time int. hrs	Change in storage ac-ft	Change in storage cfs	Mean G. Ht. ft	Outflow cfs	Total inflow cfs	Rainfall on Pool in	Rainfall on Pool area ac	Rainfall on Pool Storage ac-ft	Rainfall on Pool Storage cfs	Net Inflow Rate cfs	Net Inflow Rate in/hr	Net Inflow in	Acc in
					May 1											
0000	10.38	215.60														0.4863
0100	10.38	215.60	1.00	0		10.38		0	0	38.0	0	0	0	0	0.0000	.4863
0200	10.38	215.60	1.00	0		10.38		0	.04	38.0	.13	1.6	0	0	.0000	.4863
0245	10.39	215.98	.75	+.38	6.1	10.38		6.1	.23	38.0	.73	11.8	0	0	.0001	.4864
0300	10.40	216.36	.25	+.38	18.4	10.40		18.4	.09	38.1	.29	14.0	4.4	.0021	.0005	.4869
0315	10.41	216.74	.25	+.38	18.4	10.40		18.4	.03	38.1	.10	4.8	13.6	.0066	.0016	.4885
0330	10.42	217.13	.25	+.39	18.9	10.42		18.9	.03	38.2	.10	4.8	14.1	.0069	.0017	.4902
0345	10.43	217.51	.25	+.38	18.4	10.42		18.4	.07	38.2	.22	10.6	7.8	.0038	.0010	.4912
0400	10.44	217.90	.25	+.39	18.9	10.44		18.9	.07	38.3	.22	10.6	8.3	.0040	.0010	.4922
0415	10.45	218.28	.25	+.38	18.4	10.44		18.4	.04	38.3	.13	6.3	12.1	.0059	.0015	.4937
0430	10.47	219.05	.25	+.77	37.3	10.46		37.3	.05	38.4	.16	7.7	29.6	.0144	.0036	.4973
0445	10.49	219.82	.25	+.77	37.3	10.48		37.3	.02	38.5	.06	2.9	34.4	.0168	.0042	.5015
0500	10.51	220.59	.25	+.77	37.3	10.50		37.3	.02	38.6	.06	2.9	34.4	.0168	.0042	.5057
0515	10.53	221.36	.25	+.77	37.3	10.52		37.3	.02	38.7	.06	2.9	34.4	.0168	.0042	.5099
0530	10.56	222.53	.25	+1.17	56.6	10.54		56.6	.02	38.8	.06	2.9	53.7	.0262	.0066	.5165
0535	10.58	223.30	.083	+.77	112	10.57		112	0	38.9	0	0	112	.0545	.0045	.5210
0540	10.60	224.08	.083	+.78	113	10.59		113	0	39.0	0	0	113	.0550	.0046	.5256
0545	10.61	224.47	.083	+.39	56.6	10.60		56.6	0	39.1	0	0	56.6	.0276	.0023	.5279
0550	10.62	224.87	.083	+.40	58.1	10.62		58.1	0	39.2	0	0	58.1	.0283	.0023	.5302
0555	10.63	225.26	.083	+.39	56.6	10.62		56.6	.01	39.2	.03	4.4	52.2	.0254	.0021	.5323
0600	10.64	225.65	.083	+.39	56.6	10.64		56.6	.01	39.2	.03	4.4	52.2	.0254	.0021	.5344
0605	10.65	226.05	.083	+.40	58.1	10.64		58.1	.01	39.2	.03	4.4	53.7	.0262	.0022	.5366
0610	10.67	226.83	.083	+.78	113	10.66		113	.01	39.3	.03	4.4	109	.0531	.0044	.5410
0615	10.68	227.22	.083	+.39	56.6	10.68		56.6	.01	39.4	.03	4.4	52.2	.0254	.0021	.5431
0620	10.69	227.62	.083	+.40	58.1	10.68		58.1	.01	39.4	.03	4.4	53.7	.0262	.0022	.5453
0625	10.71	228.41	.083	+.79	115	10.70		115	.01	39.5	.03	4.4	111	.0540	.0045	.5498
0630	10.72	228.81	.083	+.40	58.1	10.72		58.1	.01	39.6	.03	4.4	53.7	.0262	.0022	.5520
0635	10.73	229.20	.083	+.39	56.6	10.72		56.6	0	39.6	0	0	56.6	.0276	.0023	.5543
0640	10.74	229.60	.083	+.40	58.1	10.74		58.1	0	39.7	0	0	58.1	.0283	.0023	.5566
Comp. by:		BCM	3-31-67													
Checked by:		EEL	4-7-67													

No outflow

Form A-64
(Rev.)

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY - [illegible]

Sheet ____ of ____

INFLOW AND OUTFLOW COMPUTATIONS

Storm period Apr. 30 - May 1

8-0940. Green Creek subwatershed No. 1 near Dublin, Tex. D.A. 3.18 sq mi

Date and time	Gage height ft	Storage ac-ft	Time int. hrs	Change in storage ac-ft	Change in storage cfs	Mean G. Ht. ft	Outflow cfs	Total inflow cfs	Rainfall on Pool in	Rainfall on Pool area ac	Rainfall on Pool Storage ac-ft	Rainfall on Pool Storage cfs	Net Inflow Rate cfs	Net Inflow Rate in/hr	Net Inflow in	Net Inflow Acc in
					May 1, cont											
0645	10.75	230.00	.083	+.40	+ 58.1	10.74	0	58.1	0	39.7	0	0	58.1	.6283	.0023	.5589
0700	10.78	231.19	.25	+1.19	+ 57.6	10.76	0	57.6	.01	39.8	.03	1.5	56.1	.0273	.0068	.5657
0715	10.80	231.99	.25	+ .80	+ 38.7	10.79	0	38.7	0	40.0	0	0	38.7	.0188	.0047	.5704
0730	10.83	233.20	.25	+1.21	+ 58.6	10.82	0	58.6	0	40.1	0	0	58.6	.0285	.0071	.5775
0745	10.85	234.01	.25	+ .81	+ 39.2	10.84	0	39.2	0	40.2	0	0	39.2	.0191	.0048	.5823
0800	10.87	234.81	.25	+ .80	+ 38.7	10.86	0	38.7	0	40.3	0	0	38.7	.0188	.0047	.5870
0815	10.89	235.62	.25	+ .81	+ 39.2	10.88	0	39.2	0	40.4	0	0	39.2	.0191	.0048	.5918
0830	10.90	236.02	.25	+ .40	+ 19.4	10.90	0	19.4	0	40.5	0	0	19.4	.0094	.0024	.5942
0900	10.92	236.84	.50	+ .82	+ 19.8	10.91	0	19.8	0	40.5	0	0	19.8	.0096	.0048	.5990
1000	10.95	238.06	1.00	+1.22	+ 14.8	10.94	0	14.8	0	40.7	0	0	14.8	.0072	.0072	.6062
1100	10.97	238.88	1.00	+ .82	+ 9.9	10.96	0	9.9	0	40.8	0	0	9.9	.0048	.0048	.6110
1200	10.99	239.69	1.00	+ .81	+ 9.8	10.98	0	9.8	0	40.9	0	0	9.8	.0048	.0048	.6158
1300	11.00	240.10	1.00	+ .41	+ 5.0	11.00	0	5.0	0	41.0	0	0	5.0	.0024	.0024	.6182
1400	11.01	240.51	1.00	+ .41	+ 5.0	11.00	0	5.0	0	41.0	0	0	5.0	.0024	.0024	.6206
1500	11.01	240.51	1.00	0	0	11.01	.2	.3	0	41.0	0	0	.2	.0001	.0001	.6207
1700	11.02	240.93	2.00	+.42	+ 2.5	11.02	.3	2.8	0	41.1	0	0	2.8	.0014	.0028	.6235
2000	11.02	240.93	3.00	0	0	11.02	.3	.3	0	41.1	0	0	.3	.0001	.0003	.6238
2400	11.02	240.93	4.00	0	0	11.02	.3	.3	0	41.1	0	0	.3	.0001	.0004	.6242
							24 | 2.9 .12								
Comp. by:		BCM														
Checked by:		EEL														

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A-78 (Revised Feb. 1960)

Sheet _____ of _____

UNITED STATES DEPARTMENT OF INTERIOR
GEOLOGICAL SURVEY, SURFACE WATER BRANCH
AUSTIN DISTRICT

Comp. by: B.B.H
Date. October 16, 1967
Check by: F.L.
Date. October 26, 1967

WEIGHTED PRECIPITATION RECORD

Area: Green Creek subwatershed No. 1 near Dublin, Tex. Date of storm April 30 to May 1, 1966

Weight Factor		1.000												Accumulated Weighted Precipitation	
		Accumulated Precipitation in Inches for Recording Gages													
Date & Time	Gage 1-R Recorded	x Factor	Gage Recorded	x Factor	Gage Recorded	x Factor	Gage Recorded	x Factor	Gage Recorded	x Factor	Gage Recorded	x Factor		Recording Gages	(Rec. Gages x K) All Gages
April 30, 1966															
1100	0														0
1230	.02														.02
45	.29														.29
1315	1.75														1.75
1320	1.75														1.75
40	1.75														1.75
45	1.77														1.77
50	1.80														1.80
55	1.85														1.85
1400	1.85														1.85
05	1.88														1.88
10	1.90														1.90
15	1.91														1.91
20	1.94														1.94
25	2.00														2.00
30	2.02														2.02
45	2.06														2.06
1500	2.07														2.07
15	2.07														2.07
45	2.07														2.07
1600	2.09														2.09
1700	2.17														2.17
1800	2.17														2.17
2400	2.17														2.17
May 1															
0100	2.17														
0200	2.21														
45	2.44														
0300	2.53														

Rain Gage	Weight Factor	Precipitation	Precipitation x Weight Factor	Rain Gage	Weight Factor	Precipitation	Precipitation x Weight Factor	Rain Gage	Weight Factor	Precipitation	Precipitation x Weight Factor
										WMR:	

WMR = Sum of Precipitation x Weight Factor K = WMR / Total Recording Gages Weighted Precipitation =

A-78 (Revised Feb. 1960)

Sheet _____ of _____

UNITED STATES DEPARTMENT OF INTERIOR
GEOLOGICAL SURVEY, SURFACE WATER BRANCH
AUSTIN DISTRICT

Comp. by: B.B.H
Date: October 16, 1967
Check by: F.L.
Date: 10/26/67

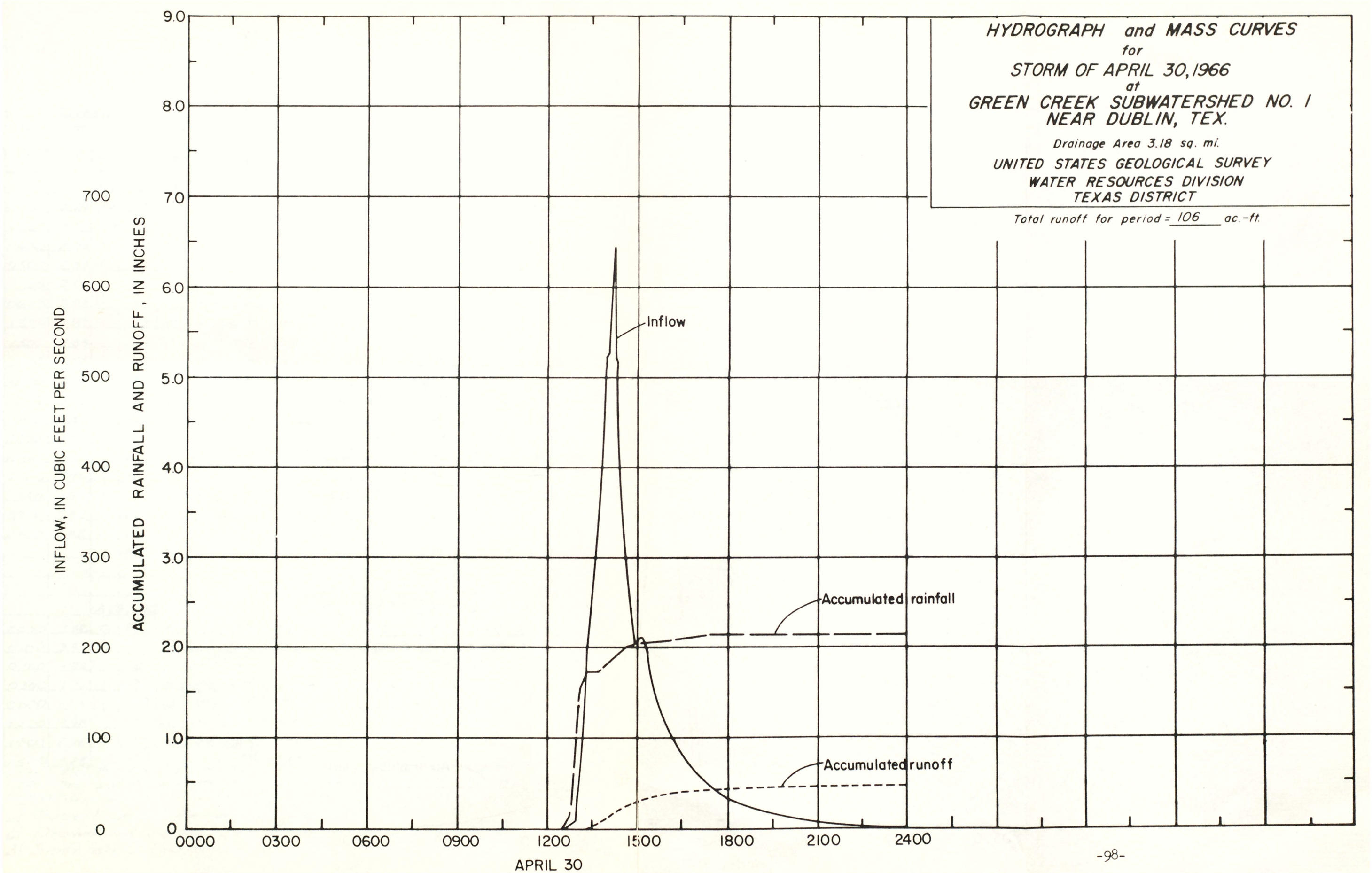
WEIGHTED PRECIPITATION RECORD

Area: Green Creek subwatershed No.1 near Dublin, Tex. Date of storm April 30 to May 1, 1966

Weight Factor													Accumulated Weighted Precipitation	
	Accumulated Precipitation in Inches for Recording Gages													
	Gage		Gage		Gage		Gage		Gage		Gage			
Date & Time	Recorded	x Factor	Recorded	x Factor	Recorded	x Factor	Recorded	x Factor	Recorded	x Factor	Recorded	x Factor	Recording Gages	(Rec. Gages x K) All Gages
Cont.														
May 1														
0315	2.56													
30	2.59													
45	2.66													
0400	2.73													
15	2.77													
30	2.82													
45	2.84													
0500	2.86													
15	2.88													
30	2.90													
35	2.90													
50	2.90													
55	2.91													
0600	2.92													
05	2.93													
10	2.94													
15	2.95													
20	2.96													
25	2.97													
30	2.98													
35	2.98													
45	2.98													
0700	2.99													
15	2.99													
1300	2.99													

Rain Gage	Weight Factor	Precipitation	Precipitation x Weight Factor	Rain Gage	Weight Factor	Precipitation	Precipitation x Weight Factor	Rain Gage	Weight Factor	Precipitation	Precipitation x Weight Factor
										WMR:	

WMR = Sum of Precipitation x Weight Factor K = WMR / Total Recording Gages Weighted Precipitation =


HYDROGRAPH and MASS CURVES
for
STORM OF APRIL 30, 1966
at
GREEN CREEK SUBWATERSHED NO. 1
NEAR DUBLIN, TEX.
Drainage Area 3.18 sq. mi.
UNITED STATES GEOLOGICAL SURVEY
WATER RESOURCES DIVISION
TEXAS DISTRICT
Total runoff for period = 106 ac.-ft.
INFLOW, IN CUBIC FEET PER SECOND
ACCUMULATED RAINFALL AND RUNOFF, IN INCHES
700
600
500
400
300
200
100
0
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0
Inflow
Accumulated rainfall
Accumulated runoff
0000
0300
0600
0900
1200
1500
1800
2100
2400
APRIL 30

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(Rev. 11-66)

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY-TEXAS DISTRICT

RUNOFF COMPUTATIONS

Station Green Creek near Alexander, Tex.

Period of Record Apr 29 to May 1, 1966 Drainage Area 45.5

Time	G. Ht. Feet [1]	[2] [3]	Discharge c.f.s.	Inc.	In/hr.	Runoff Inches	Acc. In.
		Apr. 29, 1966					
0000	2.69	-.10	.14	4	0.0000	0.0000	0.0000
0200	2.78	-.05	.60	9	.0000	.0000	.0000
0430	2.75	-.05	.45	6	.0000	.0000	.0000
0500	2.84	0	1.5	2	.0001	.0000	.0000
30	3.01		4.9	2	.0002	.0001	.0001
0600	3.02		5.2	13	.0002	.0006	.0007
1200	2.87		1.9	18	.0001	.0004	.0011
1500	2.85		1.6	11	.0001	.0003	.0014
1730	2.84		1.5	6	.0001	.0002	.0016
1800	3.01		4.9	2	.0002	.0001	.0017
1830	3.17		9.9	2	.0003	.0001	.0018
1900	3.51		26	3	.0009	.0007	.0025
2000	3.42		21	4	.0007	.0007	.0032
2100	3.56		29	4	.0010	.0010	.0042
2200	3.46		23	3	.0008	.0006	.0048
30	3.41		21	2	.0007	.0004	.0052
2300	3.48		24	3	.0008	.0006	.0058
2400	3.42	0	21	2	.0007	.0004	.0062
			682.46	96			
			7.1				
		Apr. 30					
0000	3.42	0	21	2	.0007	.0004	.0066
0100	3.31		15	4	.0005	.0005	.0071
0200	3.22		12	4	.0004	.0001	.0072
0300	3.22		12	8	.0004	.0008	.0080
0600	3.11		7.8	18	.0003	.0014	.0094
1200	2.98		4.1	16	.0001	.0004	.0098
1400	2.96		3.6	6	.0001	.0002	.0100
1500	3.25	0	13	3	.0004	.0003	.0103

Time	G. Ht. Feet	Sh. Adj.	Discharge c.f.s.	Inc.	In/hr.	Runoff Inches	Acc. In.
		Apr. 30 con't.					
1530	5.81	+.07 / 0	346	2	.0118	.0059	.0162
1600	5.66	+.06 / 0	314	3	.0107	.0080	.0242
1700	5.31	+.03 / 0	238	4	.0081	.0081	.0323
1800	7.38	+.16 / 0	802	6	.0273	.0410	.0733
2000	6.00	+.08 / 0	395	8	.0135	.0270	.1003
2200	5.05	+.01 / 0	190	8	.0065	.0130	.1133
2400	4.44	0	105	4	.0036	.0036	.1169
			13,010.6	96			
			136				
		May 1					
0000	4.44	0	105	6	.0036	.0054	.1223
0300	3.98		60	10	.0020	.0050	.1273
0500	3.83		48	6	.0016	.0024	.1297
0600	3.93		56	5	.0019	.0024	.1321
0730	3.87		51	6	.0017	.0026	.1347
0900	4.32		93	5	.0032	.0040	.1387
1000	4.25		86	4	.0029	.0029	.1416
1100	4.66		133	3	.0045	.0034	.1450
30	4.71		139	2	.0047	.0024	.1474
1200	4.64		130	7	.0044	.0077	.1551
1500	4.19		80	12	.0027	.0081	.1632
1800	3.89		53	12	.0018	.0054	.1686
2100	3.70		38	12	.0013	.0039	.1725
2400	3.59	0	31	6	.0011	.0016	.1741
			6,738	96			
			70				

Comp by THH RHO | THH RHO | RHO BCM | RHO BCM | THH RHO | RHO BCM | RHO BCM | RHO BCM

Ck by RHO | RHO | BCM | BCM | RHO | BCM | BCM | BCM

THH RHO | THH RHO | RHO BCM | RHO BCM | THH RHO | RHO BCM | RHO BCM | RHO BCM

Computed by _____ Date _____ Checked by _____ Date _____

[1] Gage-height from inside gage.

[2] Drawdown correction; apply to inside gage-heights.

[3] Shift adjustment.

A-78 (Revised Feb. 1960)

Sheet 1 of 2

UNITED STATES DEPARTMENT OF INTERIOR
GEOLOGICAL SURVEY, SURFACE WATER BRANCH
AUSTIN DISTRICT

Comp. by: BBH
Date: 10/23/67
Check by: FL
Date: 10/26/67

WEIGHTED PRECIPITATION RECORD

Area: Green Creek near Alexander, Tex. Date of storm Apr. 29, 30, and May 1, 1966

Weight Factor	.606 (1-R)		.394 (1-R)										Accumulated Weighted Precipitation	
	Accumulated Precipitation in Inches for Recording Gages													
Date & Time	Gage Recorded	x Factor	Gage Recorded	x Factor	Gage Recorded	x Factor	Gage Recorded	x Factor	Gage Recorded	x Factor	Gage Recorded	x Factor	Recording Gages	(Rec. Gages x K) All Gages
Apr. 29, 1966														Storm of Apr. 29
0400	0.00	0.000	0.00	0.000									0.000	0.00
0500	.02	.012	.02	.008									.020	.02
0600	.04	.024	.04	.016									.040	.03
0700	.04	.024	.05	.020									.044	.04
0800	.04	.024	.05	.020									.044	.04
1000	.04	.024	.06	.023									.047	.04
1245	.06	.036	.08	.032									.068	.06
1300	.06	.036	.10	.039									.075	.06
15	.06	.036	.27	.106									.142	.12
30	.06	.036	.27	.106									.142	.12
45	.06	.036	.27	.106									.142	.12
1400	.06	.036	.27	.106									.142	.12
30	.06	.036	.27	.106									.142	.12
1500	.11	.067	.27	.106									.173	.14
30	.31	.188	.27	.106									.294	.24
45	.46	.279	.30	.118									.397	.33
1600	.48	.291	.30	.118									.409	.34
1700	.50	.303	.38	.150									.453	.37
15	.50	.303	.38	.150									.453	.37
30	.62	.376	.38	.150									.526	.44
45	.70	.424	1.00	.394									.818	.68
1800	.70	.424	1.00	.394									.818	.68
2400	.70	.424	1.00	.394									.818	.68
														Storm of Apr. 30
Apr. 30														
1200	.70	.424	1.00	.394									.818	0 .68
45	.79	.479	1.02	.402									.881	.05 .73
1300	1.04	.630	1.07	.422									1.052	.19 .87
15	2.45	1.485	1.07	.422									1.907	.90 1.58

(Continued)

Rain Gage	Weight Factor	Precipitation	Precipitation x Weight Factor	Rain Gage	Weight Factor	Precipitation	Precipitation x Weight Factor	Rain Gage	Weight Factor	Precipitation	Precipitation x Weight Factor
										WMR:	

WMR = Sum of Precipitation x Weight Factor K = WMR / Total Recording Gages Weighted Precipitation =

-100-

A-78 (Revised Feb. 1960)

Sheet 2 of 2

UNITED STATES DEPARTMENT OF INTERIOR
GEOLOGICAL SURVEY, SURFACE WATER BRANCH
AUSTIN DISTRICT

Comp. by: B.B.H.
Date: 10/23/67
Check by: E.L.
Date: 10/26/67

WEIGHTED PRECIPITATION RECORD

Area: Green Creek near Alexander, Tex. Date of storm Apr 29, 30 and May 1, 1966

Weight Factor			.606		.394										Accumulated Weighted Precipitation		
	Accumulated Precipitation in Inches for Recording Gages		Gage 1-R		Gage 7-R		Gage		Gage		Gage		Gage			(Rec. Gages x K) All Gages	
Date & Time			Recorded	x Factor	Recorded	x Factor	Recorded	x Factor	Recorded	x Factor	Recorded	x Factor	Recorded	x Factor	Recording Gages	Storm of Apr. 30 cont.	Total
Apr. 30, 1966 (Continued)																	
1330	2.45	1.485	1.07	0.422											1.907	0.90	1.58
45	2.47	1.497	1.15	.453											2.950	.93	1.61
1400	2.55	1.545	1.20	.473											2.018	.90	1.67
15	2.61	1.582	1.58	.623											2.205	1.14	1.82
30	2.72	1.648	1.73	.682											2.330	1.25	1.93
45	2.76	1.673	1.82	.717											2.390	1.30	1.98
1500	2.77	1.679	1.85	.729											2.408	1.31	1.99
1600	2.79	1.691	1.87	.737											2.428	1.33	2.01
30	2.84	1.721	1.98	.780											2.501	1.39	2.07
1700	2.87	1.739	2.03	.800											2.539	1.42	2.10
2400	2.87	1.739	2.04	.804											2.543	1.42	2.10
																Storm of May 1	
May 1, 1966																0.	
0100	2.87	1.739	2.10	.827											2.566	.02	2.12
0200	2.91	1.763	2.11	.831											2.594	.05	2.15
45	3.14	1.903	2.14	.843											2.746	.17	2.27
0300	3.23	1.957	2.14	.843											2.800	.22	2.32
30	3.29	1.994	2.15	.847											2.841	.25	2.35
0400	3.43	2.079	2.15	.847											2.926	.32	2.42
30	3.52	2.133	2.20	.867											3.000	.38	2.48
0500	3.56	2.157	2.37	.934											3.091	.46	2.56
30	3.60	2.182	2.40	.946											3.128	.49	2.59
0600	3.62	2.194	2.43	.957											3.151	.51	2.61
0700	3.69	2.236	2.47	.973											3.209	.55	2.65
0800	3.69	2.236	2.50	.985											3.221	.56	2.66
1200	3.69	2.236	2.50	.985											3.221	.56	2.66

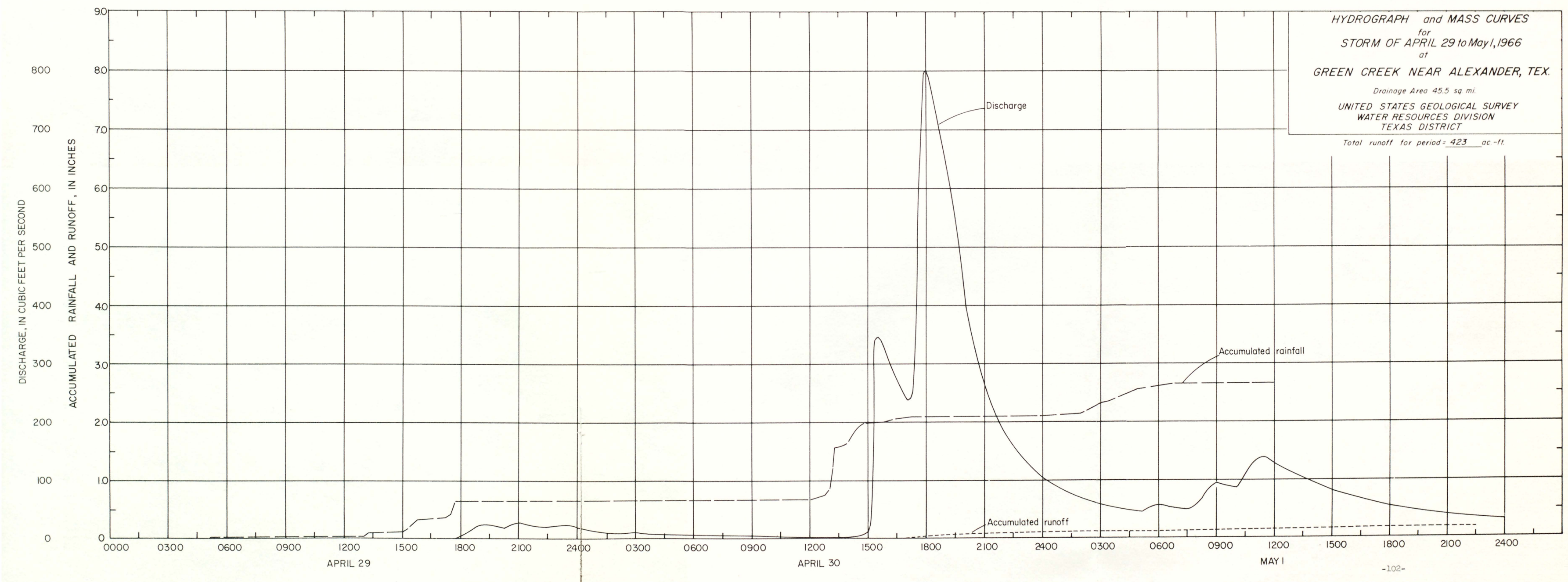
Rain Gage	Weight Factor	Precipitation	Precipitation x Weight Factor
1-R	.1709	3.69	.631
2-S	.1829	2.60	.476
3-S	.1953	2.29	.447
4-S	.1880	2.22	.417
5-S	.1607	2.63	.423

Rain Gage	Weight Factor	Precipitation	Precipitation x Weight Factor
6-S	.0298	3.03	.090
7-R	.0724	2.50	.181
		Total	2.665

Rain Gage	Weight Factor	Precipitation	Precipitation x Weight Factor

WMR = Sum of Precipitation x Weight Factor K = WMR / Total Recording Gages Weighted Precipitation = 2.665 / 3.221 = .827

WMR:


HYDROGRAPH and MASS CURVES
for
STORM OF APRIL 29 to May 1, 1966
at
GREEN CREEK NEAR ALEXANDER, TEX.
Drainage Area 45.5 sq. mi.
UNITED STATES GEOLOGICAL SURVEY
WATER RESOURCES DIVISION
TEXAS DISTRICT
Total runoff for period = 423 ac.-ft.
DISCHARGE, IN CUBIC FEET PER SECOND
ACCUMULATED RAINFALL AND RUNOFF, IN INCHES
Discharge
Accumulated rainfall
Accumulated runoff
APRIL 29
APRIL 30
MAY 1

Form A-64
(Rev. 5-65)

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY - TEXAS DISTRICT

Sheet ____ of ____

INFLOW AND OUTFLOW COMPUTATIONS

Storm period June 13, 1966

Green Creek subwatershed No. 1 near Dublin, Tex. D.A. 3.18 sq mi

Date and time	Gage height ft	Storage ac-ft	Time int. hrs	Change in storage ac-ft	Change in storage cfs	Mean G. Ht. ft	Outflow cfs	Total inflow cfs	Rainfall on Pool in	Rainfall on Pool area ac	Rainfall on Pool Storage ac-ft	Rainfall on Pool Storage cfs	Net Inflow Rate cfs	Net Inflow Rate in/hr	Net Inflow in	Acc in
						June 13										
0000	10.00	201.50							0							
30	10.00	201.50	.50	0	0	10.00	0	0	.19	36.1	.57	13.8	0	0.0000	0	0
45	10.01	201.86	.25	+ .36	+ 17.4	10.00	0	17.4	.76	36.1	2.29	111	0	0	0	0
0100	10.07	204.05	.25	+ 2.19	+106	10.04	0	106	.36	36.3	1.09	52.8	53.2	.0259	.0065	.0065
15	10.11	205.51	.25	+1.46	+ 70.7	10.09	0	70.7	.60	36.6	1.83	88.6	0	0	.0000	.0065
30	10.15	206.99	.25	+1.48	+ 71.6	10.13	0	71.6	.33	36.8	1.01	48.9	22.7	.0111	.0028	.0093
45	10.22	209.58	.25	+2.59	+125	10.18	0	125	.19	37.1	.59	28.6	96.4	.0469	.0117	.0210
0200	10.27	211.45	.25	+1.87	+ 90.5	10.24	0	90.5	.01	37.4	.03	1.5	89.0	.0433	.0108	.0318
15	10.30	212.57	.25	+1.12	+ 54.2	10.28	0	54.2	.02	37.6	.06	2.9	51.3	.0250	.0062	.0380
20	10.32	213.33	.083	+ .76	+110	10.31	0	110	0				110	.0535	.0044	.0424
25	10.35	214.47	.083	+1.14	+166	10.34	0	166	0				166	.0808	.0067	.0491
30	10.38	215.60	.083	+1.13	+164	10.36	0	164	0				164	.0799	.0066	.0557
35	10.42	217.13	.083	+1.53	+222	10.40	0	222	0				222	.1081	.0090	.0647
40	10.46	218.66	.083	+1.53	+222	10.44	0	222	0				222	.1081	.0090	.0737
45	10.50	220.20	.083	+1.54	+224	10.48	0	224	0				224	.1091	.0091	.0828
50	10.54	221.75	.083	+1.55	+225	10.52	0	225	0				225	.1096	.0091	.0919
55	10.59	223.69	.083	+1.94	+282	10.56	0	282	0				282	.1373	.0114	.1033
0300	10.64	225.65	.083	+1.96	+285	10.62	0	285	0				285	.1388	.0115	.1148
05	10.68	227.22	.083	+1.57	+228	10.66	0	228	0				228	.1110	.0092	.1240
10	10.72	228.81	.083	+1.59	+231	10.70	0	231	0				231	.1125	.0093	.1333
15	10.75	230.00	.083	+1.19	+173	10.74	0	173	0				173	.0843	.0070	.1403
20	10.78	231.19	.083	+1.19	+173	10.76	0	173	0				173	.0843	.0070	.1473
25	10.81	232.39	.083	+1.20	+174	10.80	0	174	0				174	.0847	.0070	.1543
30	10.84	233.60	.083	+1.21	+176	10.82	0	176	0				176	.0851	.0071	.1614
35	10.87	234.81	.083	+1.21	+176	10.86	0	176	0				176	.0851	.0071	.1685
40	10.89	235.62	.083	+ .81	+118	10.88	0	118	0				118	.0575	.0048	.1733
45	10.91	236.43	.083	+ .81	+118	10.90	0	118	0				118	.0575	.0048	.1781
0400	10.96	238.47	.25	+2.04	+ 98.7	10.94	0	98.7	0				98.7	.0481	.0120	.1901
15	11.00	240.10	.25	+1.63	+ 78.9	10.98	0	78.9	.11	40.9	.37	17.9	61.0	.0297	.0074	.1975
30	11.05	242.17	.25	+2.07	+100	11.02	0.3	100	.50	41.1	1.71	82.7	17.3	.0084	.0021	.1996

Comp. DEL
Check THA-EEL

Form A-64
(Rev. 5-65)

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY - TEXAS DISTRICT

Sheet ____ of ____

INFLOW AND OUTFLOW COMPUTATIONS

Storm period June 13, 1966

____ Green Creek subwatershed No. 1 near Dublin, Tex. D.A. 3.18 sq mi

Date and time	Gage height ft	Storage ac-ft	Time int. hrs	Change in storage ac-ft	Change in storage cfs	Mean G. Ht. ft	Outflow cfs	Total inflow cfs	Rainfall on Pool in	Rainfall on Pool area ac	Rainfall on Pool Storage ac-ft	Rainfall on Pool Storage cfs	Net Inflow Rate cfs	Net Inflow Rate in/hr	Net Inflow in	Acc in
0445	11.13	245.48	.25	+3.31	+160	11.09	1.7	162	.08	41.4	.28	13.6	148	.072	.0180	.2176
0500	11.18	247.57	.25	+2.09	+101	11.16	3.4	104	.01	41.8	.03	1.5	102	.0497	.0124	.2300
30	11.26	250.95	.50	+3.38	+81.8	11.22	5.2	87.0	.05	42.1	.18	4.4	82.6	.0402	.0201	.2501
0600	11.38	256.06	.50	+5.11	+124	11.32	8.4	132	.34	42.6	1.21	29.3	103	.0502	.0251	.2752
30	11.50	261.25	.50	+5.19	+126	11.44	12.5	138	0				138	.0672	.0336	.3088
0700	11.61	266.08	.50	+4.83	+117	11.56	13.1	130	0				130	.0633	.0316	.3404
30	11.71	270.53	.50	+4.45	+108	11.66	13.2	121	0				121	.0589	.0294	.3698
0800	11.79	274.13	.50	+3.60	+87.1	11.75	13.2	100	0				100	.0487	.0244	.3942
30	11.85	276.86	.50	+2.73	+66.1	11.82	13.3	79.4	0				79.4	.0387	.0194	.4136
0900	11.89	278.68	.50	+1.82	+44.0	11.87	13.4	57.4	0				57.4	.0280	.0140	.4276
1000	11.93	280.51	1.00	+1.83	+22.1	11.91	13.5	35.6	0				35.6	.0173	.0173	.4449
1100	11.94	280.97	1.00	+.46	+5.6	11.94	13.5	19.1	0				19.1	.0093	.0093	.4542
1130	11.94	280.97	.50	0	0	11.94	13.5	13.5	0				13.5	.0066	.0033	.4575
1200	11.94	280.97	.50	0	0	11.94	13.5	13.5	0				13.5	.0066	.0033	.4608
1300	11.92	280.05	1.00	-.92	-11.1	11.93	13.5	2.4	0				2.4	.0012	.0012	.4620
1400	11.90	279.13	1.00	-.92	-11.1	11.91	13.5	2.4	0				2.4	.0012	.0012	.4632
1600	11.85	276.86	2.00	-2.27	-13.7	11.88	13.5	0	0				0	0	0	.4632
1800	11.80	274.58	2.00	-2.28	-13.8	11.82	13.3	0	0				0	0	0	.4632
2000	11.75	272.33	2.00	-2.25	-13.6	11.78	13.3	0	0				0	0	0	.4632
2400	11.64	267.42	4.00	-4.91	-14.8	11.70	13.2	0	0				0	0	0	.4632
			24.00													
							96 | 992.00								
							10.3									
									3.55							

Comp. DEL
check EEL

A-78 (Revised Feb. 1960)

Sheet 1 of 1

UNITED STATES DEPARTMENT OF INTERIOR
GEOLOGICAL SURVEY, SURFACE WATER BRANCH
AUSTIN DISTRICT

Comp. by: B.B.H.
Date 9/16/67
Check by: F.L.
Date 10/26/67

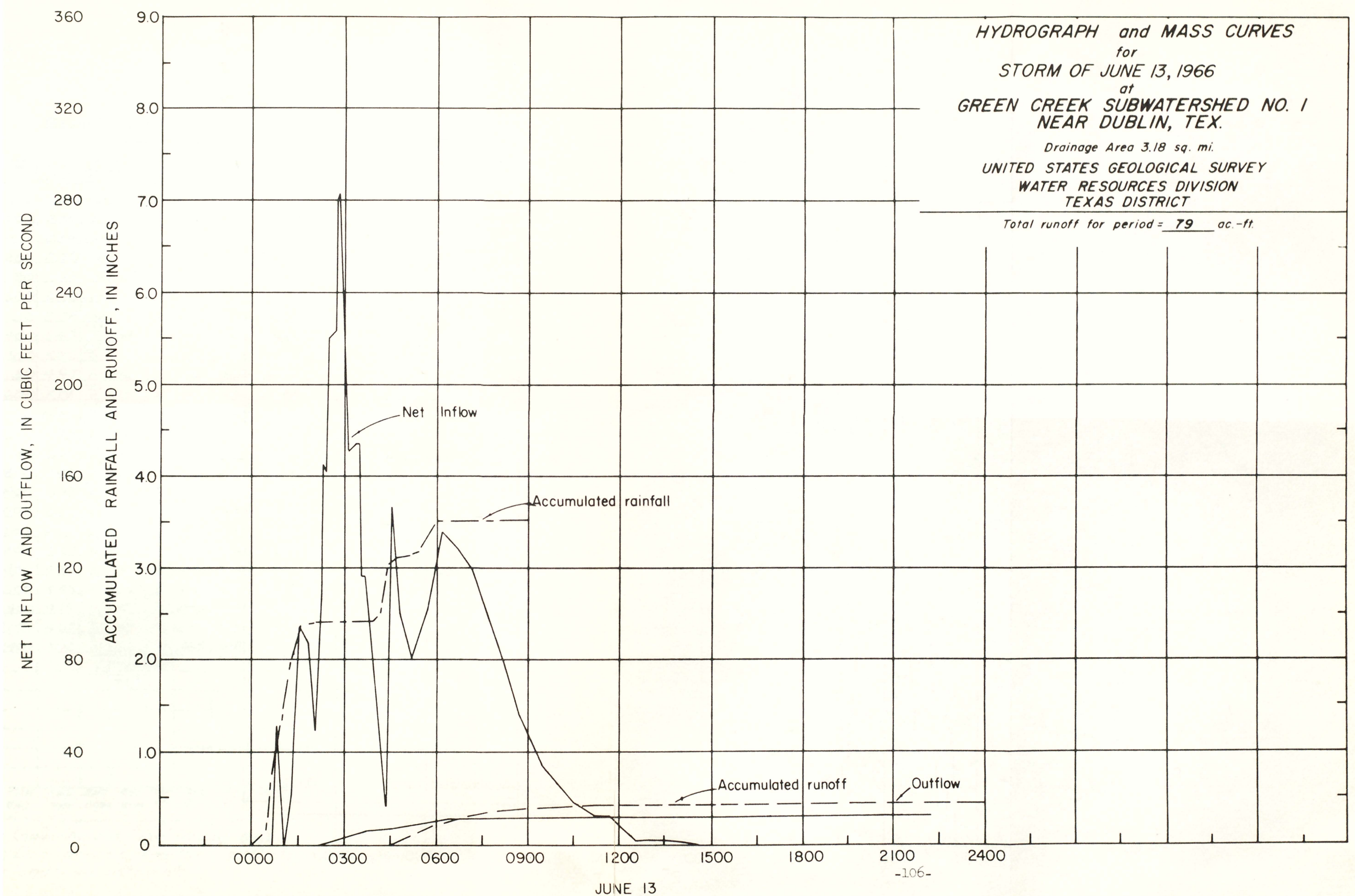
WEIGHTED PRECIPITATION RECORD

Area: Green Creek subwatershed No.1 near Dublin, Tex. Date of storm June 13, 1966

Weight Factor	1.000 - R												Accumulated Weighted Precipitation	
	Accumulated Precipitation in Inches for Recording Gages													
Date & Time	Gage Recorded	x Factor	Gage Recorded	x Factor	Gage Recorded	x Factor	Gage Recorded	x Factor	Gage Recorded	x Factor	Gage Recorded	x Factor	Recording Gages	(Rec. Gages x K) All Gages
June 13, 1966														
0000	0													0.00
30	.19													.19
45	.95													.95
0100	1.31													1.31
15	1.91													1.91
30	2.24													2.24
45	2.43													2.43
0200	2.44													2.44
15	2.46													2.46
0400	2.46													2.46
15	2.57													2.57
30	3.07													3.07
45	3.15													3.15
0500	3.16													3.16
30	3.21													3.21
0600	3.55													3.55
0700	3.55													3.55

Rain Gage	Weight Factor	Precipitation	Precipitation x Weight Factor	Rain Gage	Weight Factor	Precipitation	Precipitation x Weight Factor	Rain Gage	Weight Factor	Precipitation	Precipitation x Weight Factor
										WMR:	

WMR = Sum of Precipitation x Weight Factor K = WMR / Total Recording Gages Weighted Precipitation =


HYDROGRAPH and MASS CURVES
for
STORM OF JUNE 13, 1966
at
GREEN CREEK SUBWATERSHED NO. 1
NEAR DUBLIN, TEX.
Drainage Area 3.18 sq. mi.
UNITED STATES GEOLOGICAL SURVEY
WATER RESOURCES DIVISION
TEXAS DISTRICT
Total runoff for period = 79 ac.-ft.
NET INFLOW AND OUTFLOW, IN CUBIC FEET PER SECOND
ACCUMULATED RAINFALL AND RUNOFF, IN INCHES
360
320
280
240
200
160
120
80
40
0
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0
Net Inflow
Accumulated rainfall
Accumulated runoff
Outflow
0000
0300
0600
0900
1200
1500
1800
2100
2400
JUNE 13

A-65
(Rev. 11-66)

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY-TEXAS DISTRICT

RUNOFF COMPUTATIONS

Station Green Creek near Alexander, Tex.

Period of Record June 13, 1966 Drainage Area 45.5

Time	G. Ht. Feet [1]	[2] [3]	Discharge c.f.s.	Discharge Inc.	Discharge In/hr.	Runoff Inches	Runoff Acc. In.
	June 13, 1966						
0000	2.54	-.23	0	2	0.0000	0.0000	0.0000
0100	2.54	-.23	0	4	.0000	.0000	.0000
0200	2.70	-.14	.10	3	.0000	.0000	.0000
30	2.94	-.02	2.8	2	.0001	.0000	.0000
0300	2.90	-.02	2.0	2	.0001	.0000	.0000
30	2.78	-.08	.45	2	.0000	.0000	.0000
0400	5.43	+.04 / 0	264	3	.0090	.0068	.0068
0500	5.22	+.02 / 0	220	3	.0075	.0056	.0124
30	4.97	0	176	2	.0060	.0030	.0154
0600	5.19	+.02 / 0	215	2	.0073	.0036	.0190
30	6.45	+.11 / 0	515	2	.0175	.0088	.0278
0700	7.73	+.17 / 0	930	2	.0317	.0158	.0436
30	7.94	+.18 / 0	1,020	2	.0347	.0174	.0610
0800	7.42	+.15 / 0	811	3	.0276	.0207	.0817
0900	6.98	+.14 / 0	676	4	.0230	.0230	.1047
1000	6.62	+.12 / 0	562	4	.0191	.0191	.1238
1100	6.00	+.08 / 0	395	4	.0135	.0135	.1373
1200	5.57	+.05 / 0	294	6	.0100	.0150	.1523
1400	4.87		161	8	.0055	.0110	.1633
1600	4.43		104	8	.0035	.0070	.1703
1800	4.19		80	8	.0027	.0054	.1757
2000	4.07		68	12	.0023	.0069	.1826
2400	3.92	0	55	8	.0019	.0038	.1864
			2,919.80	96			
			228				

Time	G. Ht. Feet	Sh. Adj.	Discharge c.f.s.	Discharge Inc.	Discharge In/hr.	Runoff Inches	Runoff Acc. In.

Comp. by THH THH RHO RHO THH RHO RHO RHO
Ck by RHO RHO BCM BCM RHO BCM BCM BCM

Computed by _____ Date _____ Checked by _____ Date _____

[1] Gage-height from inside gage.

[2] Drawdown correction; apply to inside gage-heights.

[3] Shift adjustment.

A-78 (Revised Feb. 1960)

Sheet _____ of _____

UNITED STATES DEPARTMENT OF INTERIOR
GEOLOGICAL SURVEY, SURFACE WATER BRANCH
AUSTIN DISTRICT

Comp. by: B.B.H
Date: October 17,1967
Check by: F.L.
Date: October 26,1967

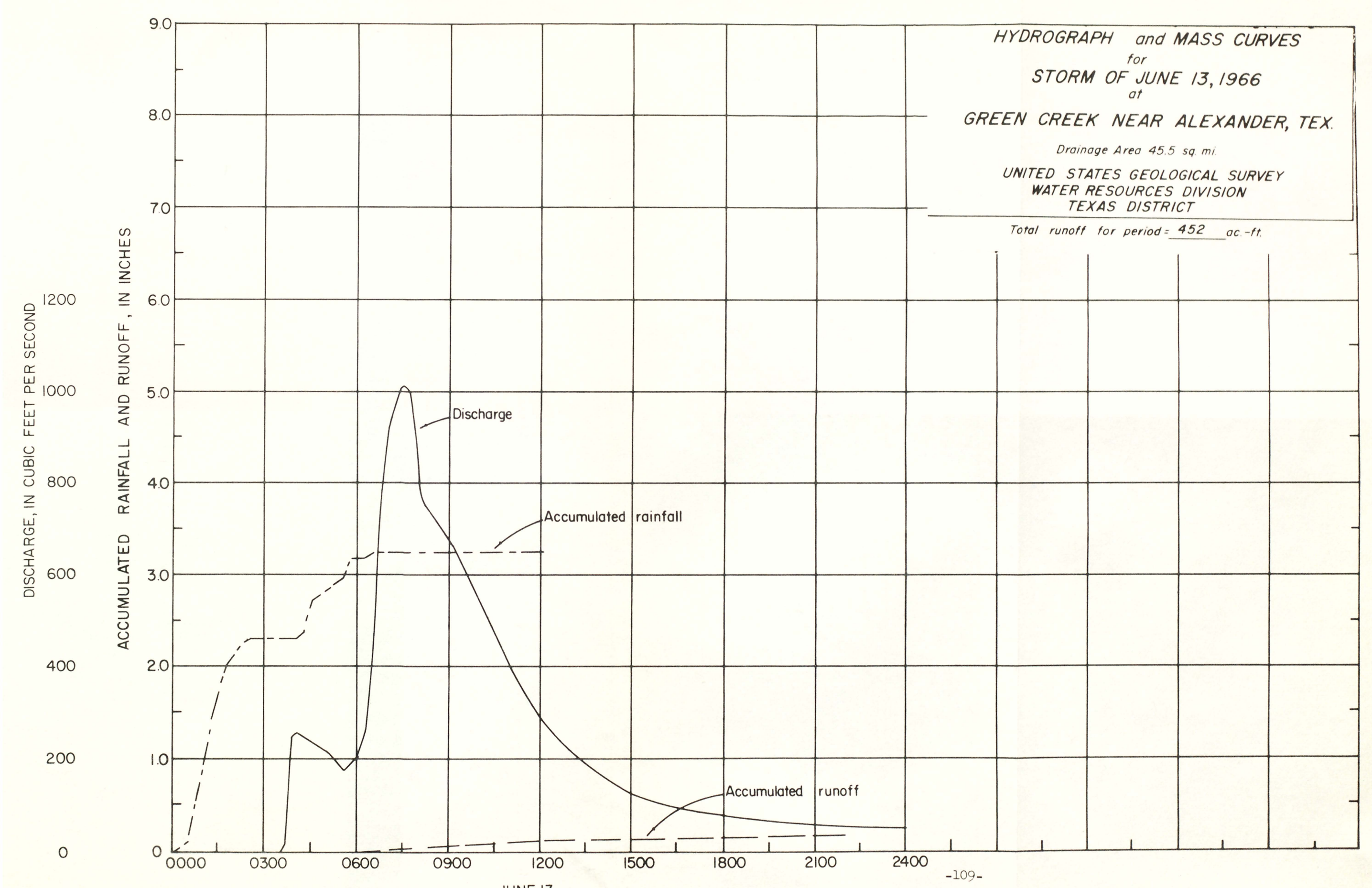
WEIGHTED PRECIPITATION RECORD

Area: Green Creek near Alexander, Tex. Date of storm June 13, 1966

Weight Factor	.606		.394										Accumulated Weighted Precipitation	
	Accumulated Precipitation in Inches for Recording Gages													
	Gage 1-R		Gage 7-R		Gage		Gage		Gage		Gage			
Date & Time	Recorded	x Factor	Recorded	x Factor	Recorded	x Factor	Recorded	x Factor	Recorded	x Factor	Recorded	x Factor	Recording Gages	(Rec. Gages x K) All Gages
June 13														
0000	0	0	0	0									0	0
30	.19	.12	0	0									.12	.12
45	.95	.58	0	0									.58	.60
0100	1.31	.79	.17	.07									.86	.89
15	1.91	1.16	.73	.29									1.45	1.50
30	2.24	1.36	1.02	.40									1.76	1.82
45	2.43	1.47	1.30	.51									1.98	2.05
0200	2.44	1.48	1.54	.61									2.09	2.16
15	2.46	1.49	1.83	.72									2.21	2.29
30	2.46	1.49	1.95	.77									2.26	2.34
0400	2.46	1.49	1.96	.77									2.26	2.34
15	2.57	1.56	1.96	.77									2.33	2.41
30	3.07	1.86	2.00	.79									2.65	2.74
45	3.15	1.91	2.06	.81									2.72	2.81
0500	3.16	1.91	2.15	.85									2.76	2.85
15	3.17	1.92	2.34	.92									2.84	2.94
30	3.21	1.95	2.38	.94									2.89	2.99
45	3.54	2.15	2.39	.94									3.09	3.20
0600	3.55	2.15	2.40	.95									3.10	3.21
15	3.55	2.15	2.41	.95									3.10	3.21
30	3.55	2.15	2.60	1.02									3.17	3.28
0700	3.55	2.15	2.60	1.02									3.17	3.28
1200	3.55	2.15	2.60	1.02									3.17	3.28

Rain Gage	Weight Factor	Precipitation	Precipitation x Weight Factor	Rain Gage	Weight Factor	Precipitation	Precipitation x Weight Factor	Rain Gage	Weight Factor	Precipitation	Precipitation x Weight Factor
1-R	.1709	3.55	.607	6-S	.0298	2.15	.064				
2-S	.1829	4.00	.732	7-R	.0724	2.60	.188				
3-S	.1953	2.53	.494								
4-S	.1880	3.52	.662			Total	3.277				
5-S	.1607	3.30	.530							WMR:	

WMR = Sum of Precipitation x Weight Factor K = WMR / Total Recording Gages Weighted Precipitation = 3.277/3.17 = 1.034


HYDROGRAPH and MASS CURVES
for
STORM OF JUNE 13, 1966
at
GREEN CREEK NEAR ALEXANDER, TEX.
Drainage Area 45.5 sq. mi.
UNITED STATES GEOLOGICAL SURVEY
WATER RESOURCES DIVISION
TEXAS DISTRICT
Total runoff for period = 452 ac.-ft.
DISCHARGE, IN CUBIC FEET PER SECOND
ACCUMULATED RAINFALL AND RUNOFF, IN INCHES
Discharge
Accumulated rainfall
Accumulated runoff
0000
0300
0600
0900
1200
1500
1800
2100
2400
JUNE 13


BOUND BY
HM