RAINFALL-RUNOFF RELATIONS

FOR

SOUTHWESTERN LOUISIANA

TECHNICAL REPORT
NUMBER 2C

Prepared by

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PREFACE

In 1962, the Louisiana Department of Public Works and the U.S. Geological Survey agreed, as part of their cooperative program, to investigate and develop methods which could be used to reproduce or synthesize storm hydrographs of specific storms from basin characteristics and rainfall records. The original agreement was for southeastern Louisiana, an area known locally as the Florida Parishes. Reports by Calandro (1967) and Sauer (1967) have been published for that area. This report is for an area of about 9,000 square miles in southwestern Louisiana.

The project is divided into three basic phases: (1) rainfall-runoff relations, (2) unit hydrographs, and (3) magnitude and frequency of storm runoff. Separate reports covering each phase will be published as a series of technical reports, as follows:

Technical Report No. 2a - Rainfall-Runoff Relations for Southeastern Louisiana and Southwestern Mississippi, by Anthony J. Calandro (published in 1967)

No. 2b - Unit Hydrographs for Southeastern Louisiana and Southwestern Mississippi, by V. B. Sauer (published in 1967)

No. 2c - Rainfall-Runoff Relations for Southwestern Louisiana, by F. N. Lee (in press)

No. 2d - Unit Hydrographs for Southwestern Louisiana

No. 2e - Magnitude and Frequency of Storm Runoff in Southwestern Louisiana, Southeastern Louisiana, and Southwestern Mississippi.

One phase of the project has been published in U.S. Geological Survey Professional Paper 501-D. This paper, "Magnitude and Frequency of Storm Runoff in Southeastern Louisiana and Southwestern Mississippi," by Sauer (1964), will be incorporated into Technical Report No. 2e. The five reports listed above will constitute a set which can be used to derive a storm hydrograph from rainfall records and basin characteristics in the areas described.

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by

FRED N. LEE

ABSTRACT

This report is a companion report to Technical Report No. 2a, "Rainfall Runoff Relations for Southeastern Louisiana and Southwestern Mississippi," by A. J. Calandro. It provides a method of estimating runoff from rainfall in southwestern Louisiana.

Two distinct runoff areas are defined by the general formula $R=aP^x$, in which,

R = runoff, in inches,

P = precipitation, in inches,

a = coefficient, depending upon week of the year, and

x = coefficient, depending upon week of the year.

Separate tables list values of "a" and "x" for each of the two subareas. Differences in runoff from the two areas are attributed mainly to different soil characteristics.

The standard errors of estimate, using all storms for subarea I and II, are about 60 percent and 80 percent, respectively. However, as total amounts of runoff increase, the standard errors of estimate decrease. For instance, for storms with runoff larger than 1 inch, the standard error of estimate is about 40 percent, and for storms with runoff larger than four inches, the standard error of estimate is about 25 percent, in both subareas.

Rainfall, runoff, and storm duration data are included for 1,351 storms analyzed at 37 streamflow stations and 63 rainfall stations.

INTRODUCTION

Purpose

The purpose of this report is to relate rainfall to storm runoff[1] in southwestern Louisiana. The true relationship, considering all variables, is very complex and is beyond the scope of this report. A simple regression of rainfall versus runoff, as given in this report, provides a means of estimating the runoff from a given amount of rainfall. The only data needed for such estimates is rainfall.

The rainfall-runoff relations in this report are useful in the preliminary planning, design, and operation of structures where flooding is a problem. Synthesis of flood hydrographs through the use of unit hydrographs requires estimates of flood runoff from known or hypothetical storms. Such estimates are useful in flood-frequency analyses and the prediction of floods in progress.

Data available

Records of stage and discharge are available at 37 sites in the study area. Included in the 37 stations are four stations with auxiliary gages used to define backwater conditions, and four pond stations. The length of records through the 1962 water year varies from 2 to 27 years per station. Tables A-1 and A-2 in the appendix give station number and name, drainage area, and period of record.

A total of 63 rainfall stations was used for this analysis --- 22 recording and 41 non-recording. The U.S. Geological Survey operates eight of the recording gages either at pond stations or in the Bayou Dupont Watershed. The others are operated by the U.S. Weather Bureau. Length of records range from 1 to 76 years per station. Table A-3 in appendix gives the station name, type of gage, length of record, and latitude and longitude.

Figure 1 shows the location of all discharge and rainfall gages.

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[1]In this report, the term "runoff" denotes the volumetric measure of the excess rainfall. It is that part of rainfall which goes directly to surface runoff and does not include that part of rainfall which goes to infiltration, evapotranspiration, and subsurface runoff.

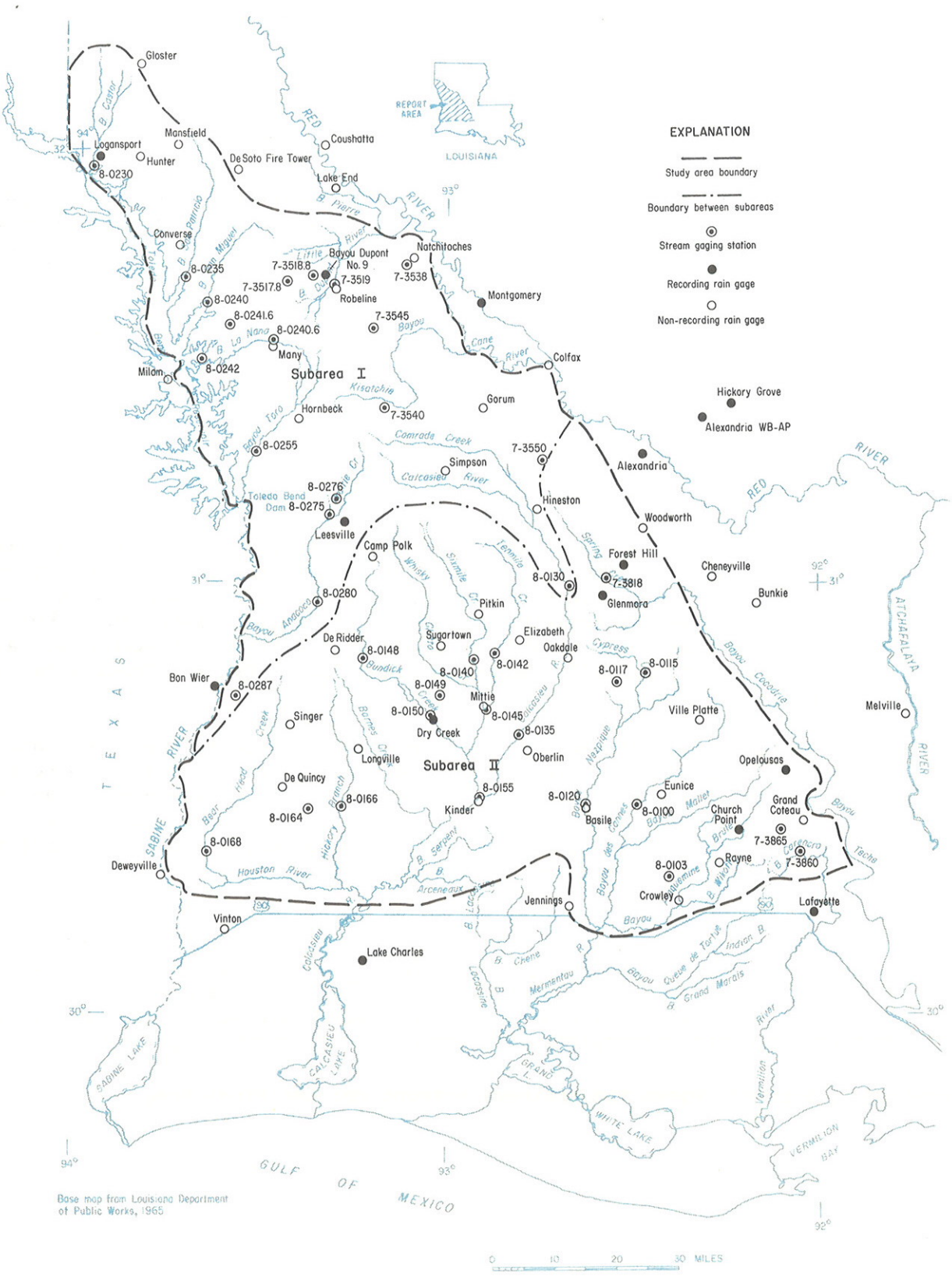

Figure 1.--Location map.

DESCRIPTION OF AREA

Physiography

The study area (fig. 1) of about 9,000 square miles is bounded on the north by the 32° parallel, on the south by U.S. Highway 90, on the west by the Sabine River, on the northeast by the Red River, and on the east by the 92° meridian. The area encompasses, either wholly or partially, 15 parishes.

The area lies entirely within the West Gulf Coastal Plain (Fenneman, 1938). The southern part of the area lies within the Prairie Grasslands. The flat topography and soil type of the Prairie Grasslands are suitable for growing rice, an indication of highly impermeable soils. The silty loam surface soils are underlain with relatively impermeable clay which prevents rapid infiltration and thus results in increased runoff during storm periods.

The flat land of the Prairie Grasslands blends into a rolling hill type topography in the northern half of the study area. Although the steeper topography of this northern section results in more rapid runoff, the highly permeable soils have greater infiltration rates than those in the Prairie Grasslands, with the result that less runoff occurs for a given amount of rainfall than would occur in the Prairie Grasslands for the same size storm.

The contrast between the two areas can be noted in the amount and kind of cover existing. Large parts of the Prairie Grasslands have been cleared for farming, with trees located only in the swampy areas and along the stream banks. Farther north, the rolling topography is densely covered by several types of pine and hardwood trees, with only small areas cleared for truck farms and nurseries.

There are four main river basins in the study area, the Sabine, Red, Calcasieu, and Mermentau. All other streams are tributaries, directly or indirectly, to these four major systems. Most of the streams have wooded flood plains with moderate meandering. The streams in the northern part of the study area have steeper slopes than those in the Prairie Grasslands, resulting in faster velocities.

Figure 1 shows the drainage network for the study area.

Climate

Because of its latitudinal position and proximity to the Gulf of Mexico, Louisiana has a humid-subtropical climate. The average annual precipitation for the study area varies about 10 inches from the north to the south. The average annual rainfall in the northern part of the study area is about 52 inches, whereas the average annual rainfall for the southern part of the study area is about 62 inches.

There are three meteorological conditions that cause precipitation in Louisiana and the area of study. One of these is the convectional-type storm which occurs on hot summer days. These storms can be recognized by anvil-shaped clouds accompanied by thunder and lightning. The precipitation associated with such storms is very intense, usually lasting for only a short time. These storms are usually localized, and cannot be used with a great deal of confidence for rainfall-runoff relationships. Another type storm, and the one causing the most severe flooding, is the frontal storm. These storms occur in the winter and early spring and are caused by a cold front moving into the area. The precipitation usually starts as a slow drizzle, increasing in intensity as the front moves in. The precipitation, which can last from a few hours to several days, generally covers a large area and can cause wide spread flooding. The third type storm to occur in this area is the tropical cyclone, or hurricane. These low-pressure systems move into the area from the Gulf of Mexico, bringing severe winds and much moisture. Severe flooding can result from these storms; however, this type of storm does not occur frequently.

The average annual temperature for the study area is about 67°F, with a slight variation between the northern and southern sections of the area. Occasionally, freezing temperatures and snow showers occur. However, severe freezing weather is very infrequent and the amount of snow that falls is usually very light. Because of the moderate temperature of the area, runoff from snow or ice is insignificant.

ANALYSIS OF DATA

Runoff

Storm runoff was computed for 1,351 storms. A storm was included if its resulting peak had a recurrence interval of 1.15 years or more. This gave an average of three to five storms per station per year.

The general procedure for computing storm runoff consists of two parts. The first part is to compute the total runoff for the storm in question. The second part is to estimate the base flow and subtract this amount from the total runoff. This leaves an amount that can be attributed to surface runoff resulting from the rainfall for that storm.

Technical Report No. 2a, "Rainfall-Runoff Relations for Southeastern Louisiana and Southwestern Mississippi," by Anthony J. Calandro (1967), describes in detail the procedure of computing runoff and estimating base flow. The procedure used in this report is the same as in that report.

Rainfall

Rainfall records from the U.S. Weather Bureau and the U.S. Geological Survey were used to estimate the rain that fell on each basin for each storm and to determine the duration of the storm in question.

The total precipitation was computed for each of 1,351 storms used in the study, using both recording and non-recording gages. The time distribution of the rainfall was computed from the recording gages and was used to distribute (with time) the rainfall recorded at non-recording gages. The Thiessen Polygon method for computing mean depth of precipitation was used for this report. Tables A-4 and A-5 give rain gages and Thiessen weights used for each streamflow station.

The duration of a storm, as referred to in this report, is the total time elapsed from the beginning to the ending of the storm rainfall. To make the computations consistent, an hourly rainfall amount of 0.10 inch or less, when immediately preceding or following a storm, was counted in the total rainfall for the storm but was not counted in the duration time. However, should rainfall of 0.10 inch or less fall during any hour within the storm duration, both the amount of rainfall and the time were counted. The above explanation of duration is illustrated in the following example: Suppose in hour one, 0.50 inch of rain fell; in hour two, 1.00 inch fell; in hour three, 0.75 inch fell; in hour four, 2.50 inches fell; and in hour five, 0.45 inch fell. The total rainfall would be 5.20 inches and

the duration would be 5 hours. Now, if in hour one, 0.05 inch fell; in hour two, 0.10 inch; in hour three, 1.00 inch; in hour four, none; in hour five, 0.75 inch; and hour six, 0.10 inch, then the total rainfall would be 2.00 inches and the duration three hours. The total rainfall for this storm includes all rain from hour one through hour six, but the duration is only the time from hour three through hour five.

Regressions of Rainfall and Runoff Data

One basic regression model was made for this study; rainfall versus runoff by weeks. According to Technical Report No. 2a, "Rainfall-Runoff Relations for Southeastern Louisiana and Southwestern Mississippi," antecedent conditions and storm duration did not improve the standard error of estimate significantly. On this basis, regressions using antecedent conditions and duration were not made, except as a test to be sure that improvements were not possible. The tests indicated no significant improvement. However, it is thought that antecedent conditions are accounted for to some extent in the week-of-the-year concept.

Rainfall versus runoff regressions were made for each individual station using week-of-the-year as a factor. The comparison of these individual regressions indicated two distinct areas with different runoff characteristics. These areas are shown on figure 1 as subarea I and subarea II. Subarea I covers an area approximately from the foot of the rolling hills to about the 32° parallel. Subarea II covers the prairie grasslands south of the rolling hills. The difference of runoff between the two subareas can be attributed to the different soils of the two areas. The hardpan underlying the topsoil in the southern section results in a greater amount of runoff for a given amount of rainfall.

After the individual regressions were made, the station curves in each subarea were averaged into a single set of curves for each area. To provide a smooth transition from one week to the next, individual weekly curves were developed and transposed into a formula. The basic formula for computing runoff is $R = aP^x$ in which,

R = Runoff, in inches,
P = amount of precipitation, in inches,
a = coefficient depending on week of the year, and
x = coefficient depending on week of the year.

The coefficients "a" and "x" provide a smooth transition from one week to the next, "a" being the intercept (runoff for one inch of rain) and "x" being the slope of the line. Tables 1 and 2 give these values.

Table 1.--Coefficients for Subarea I

Week No.	a	x	Week No.	a	x
1	0.51	1.20	27	0.26	1.40
2	.53	1.19	28	.24	1.42
3	.55	1.18	29	.23	1.43
4	.54	1.18	30	.22	1.45
5	.52	1.19	31	.21	1.46
6	.51	1.20	32	.19	1.48
7	.50	1.20	33	.18	1.50
8	.49	1.21	34	.17	1.52
9	.48	1.22	35	.19	1.49
10	.46	1.23	36	.21	1.46
11	.45	1.24	37	.22	1.44
12	.44	1.24	38	.24	1.42
13	.43	1.25	39	.26	1.40
14	.41	1.26	40	.28	1.38
15	.40	1.27	41	.30	1.36
16	.39	1.28	42	.31	1.34
17	.38	1.29	43	.33	1.32
18	.36	1.30	44	.35	1.31
19	.35	1.31	45	.37	1.29
20	.34	1.32	46	.39	1.28
21	.33	1.33	47	.40	1.27
22	.32	1.34	48	.42	1.25
23	.30	1.35	49	.44	1.24
24	.29	1.36	50	.46	1.23
25	.28	1.37	51	.48	1.22
26	.27	1.39	52	.49	1.21

Table 2.--Coefficients for Subarea II

Week No.	a	x	Week No.	a	x
1	0.65	1.13	27	0.47	1.22
2	.64	1.13	28	.47	1.22
3	.64	1.13	29	.46	1.23
4	.63	1.14	30	.45	1.23
5	.62	1.14	31	.45	1.24
6	.62	1.14	32	.44	1.24
7	.61	1.15	33	.43	1.25
8	.60	1.15	34	.43	1.25
9	.60	1.15	35	.42	1.26
10	.59	1.16	36	.41	1.26
11	.59	1.16	37	.43	1.25
12	.58	1.16	38	.45	1.23
13	.57	1.17	39	.47	1.22
14	.56	1.17	40	.49	1.21
15	.56	1.17	41	.51	1.20
16	.55	1.18	42	.53	1.19
17	.54	1.18	43	.55	1.18
18	.54	1.18	44	.56	1.17
19	.53	1.19	45	.58	1.16
20	.52	1.19	46	.60	1.15
21	.52	1.20	47	.62	1.14
22	.51	1.20	48	.64	1.13
23	.50	1.20	49	.66	1.12
24	.49	1.21	50	.66	1.12
25	.49	1.21	51	.66	1.12
26	.48	1.22	52	.65	1.13

The standard error of estimate as indicated in table 3, is quite large when using all storms. This can be attributed to the large number of storms with runoff of less than 1.00 inch. In this range, a small numerical difference between the actual runoff and the computed runoff is a large percentage difference. However, as the runoff becomes larger, the standard error of estimate becomes smaller. If all points less than 1.00 inch are deleted, the standard error of estimate decreases by nearly one-half. For storms with over four inches of runoff, the standard error of estimate for the two areas is about 25 percent, the same as that computed for southeastern Louisiana (Calandro, 1967).

Table 3.--Standard error of estimate

Storms used	Subarea I standard error %	Subarea II standard error %
All storms	61	81
over 1.00 inch	38	47
over 2.00 inches	34	33
over 3.00 inches	30	31
over 4.00 inches	27	25

APPLICATION OF RAINFALL-RUNOFF-WEEK RELATIONS

The application of the rainfall-runoff equation is a simple mathematical computation. Only the total amount of precipitation and the values of "a" and "x" associated with the week of the year are required. The following examples of computation of total runoff illustrate the procedure and show the difference between the two subareas. Assume a total rainfall of 2.00 inches fell over a hypothetical basin in week 1.

Subarea I	Subarea II
$P = 2.00$ inches	$P = 2.00$ inches
$a = 0.51$	$a = 0.65$
$x = 1.20$	$x = 1.13$
$R = aP^x$	$R = aP^x$
$R = (0.51)(2.00)^{1.20}$	$R = (0.65)(2.00)^{1.13}$
$R = 1.17$ inches	$R = 1.42$ inches

The illustration in the preceding paragraph is a computation of the total runoff that occurs from a given amount of rainfall but not of the total flow in the stream. If a time distribution of the runoff were desired, such as the runoff from a 4-hour rainfall at 1-hour intervals, the cumulative method of computation should be used. Assume that 5.00 inches of rain fell in 4 hours over a basin in subarea I, in the first week of the year. First, the values of "a" and "x" would be taken from table 1. Then, the rainfall would be listed, in 1-hour increments of time. Next, the rainfall would be accumulated at 1-hour increments and each accumulated value of rainfall would be substituted into the formula $R = aP^x$, using the values of "a" and "x" taken from table 1. This then, would be the accumulated runoff at the end of each hour. The difference between accumulated runoff values would then be taken as shown in the fifth column of table 4. This would be the runoff associated with each increment of rain.

Table 4.--Computation of runoff by accumulative method

Hour	Rainfall, in inches	Accumulated rainfall, in inches	Accumulated runoff, in inches	Runoff, in inches	$\frac{\text{Runoff}}{\text{rainfall}}$
1	1.00	1.00	0.51	0.51	0.51
2	1.50	2.50	1.53	1.02	.68
3	2.00	4.50	3.10	1.57	.78
4	.50	5.00	3.52	.42	.84

As can be seen from table 4, the longer the storm, the greater the percent of rainfall that becomes runoff. It is logical to assume that as rain continues and the soil becomes saturated, more runoff would result.

CONCLUSIONS

This report, as a companion report to "Rainfall-Runoff Relations for Southeastern Louisiana and Southwestern Mississippi", by Calandro (1967), defines the relationship between rainfall, runoff, and week-of-the-year for southwestern Louisiana. Graphical regressions were made relating storm rainfall to runoff and defined two areas of different runoff characteristics. These regressions provide a method of estimating runoff from rainfall. Antecedent conditions are accounted for, to some extent, by the week-of-the-year.

The rainfall and runoff data at individual stations used in this report are considered to be of good quality but because of the average area covered by each rainfall station (150 square miles) the overall rainfall coverage is poor. For a better definition of the amount of rainfall falling on individual drainage areas, more rainfall stations are needed.

The user is encouraged to include all available rainfall data when using the formulas of this report. Likewise, he is cautioned against using the formula and coefficients outside of the study area.

REFERENCES

Calandro, A. J., 1967, Rainfall-runoff relations for southeastern Louisiana and southwestern Mississippi: Louisiana Dept. Public Works, Tech. Rept. No. 2a, 15 p., 2 figs.

Fenneman, N. H., 1938, Physiography of eastern United States: New York, McGraw-Hill Book Co., 714 p., 197 figs, 6 pls.

APPENDIX

Table A-1.--Gaging stations in southwestern Louisiana

Subarea I

Station number	Station name	Drainage area sq. mi.	Period of record
7-3517.8	Bayou Dupont Subwatershed no. 2 near Marthaville	5.29	2/60-9/62
7-3519	Bayou Dupont near Robeline	35.1	2/57-9/62
7-3538	Youngs Bayou at Natchitoches	40.1	12/57-9/62
7-3540	Little Sandy Creek at Kisatchie	21.4	9/49-9/62
7-3545	Horsepen Creek near Provencal	5.27	9/49-9/62
7-3550	Hemphill Creek near Hot Wells	18.0	10/48-9/62
8-0130	Calcasieu River near Glenmora	499	8/43-9/62
8-0230	Bayou Castor near Logansport	96.5	10/55-9/62
8-0235	Bayou San Patricio near Noble	154	10/51-9/62
8-0240	Bayou San Miguel near Zwolle	111	9/48-9/62
8-0240.6	Blackwell Creek at Many	3.16	10/59-9/62
8-0241.6	Hurricane Creek tributary at Loring Lake, near Zwolle	1.03	4/54-9/62
8-0242	Bayou La Nana near Zwolle	130	10/55-9/62
8-0255	Bayou Toro near Toro	148	10/55-9/62
8-0275	Bayou Anacoco near Leesville	119	10/48-9/62
8-0276	Wyatt Creek trib. at Lewis and Killian Lake, near Leesville	0.21	1/56-9/62
8-0280	Bayou Anacoco near Rosepine	369	10/51-9/62
8-0287	Hoosier Creek near Merryville	13.1	10/55-9/62

Table A-2.--Gaging Stations in southwestern Louisiana

Subarea II

Station number	Station name	Drainage area sq. mi.	Period of record
7-3818	Spring Creek near Glenmora	68.3	3/56-9/62
7-3860	Bayou Carencro near Sunset	37.1	10/43-9/61
7-3865	Bayou Bourbeau at Shuteston	19.0	10/42-9/62
8-0100	Bayou Des Cannes near Eunice	131	10/38-9/62
8-0103	Long Point Gully near Crowley	25.7	4/49-2/59, 11/59-9/62
8-0115	Boggy Bayou near Pine Prairie	51.3	9/48-12/51
8-0117	Beaver Creek tributary at Fontenot Pond, near Beaver	0.17	12/54-9/62
8-0120	Bayou Nezpique near Basile	527	10/38-9/62
8-0135	Calcasieu River near Oberlin	753	8/22-1/25 9/38-9/62
8-0140	Sixmile Creek near Sugartown	171	2/56-9/62
8-0142	Tenmile Creek near Elizabeth	94.2	10/49-9/62
8-0145	Whisky Chitto Creek near Oberlin	510	1/39-9/62
8-0148	Bundick Creek near De Ridder	120	3/56-9/62
8-0149	Jim Burney Branch tributary at Smithhart Pond, near Dry Creek	0.28	3/56-9/62
8-0150	Bundick Creek near Dry Creek	238	1/39-9/62
8-0155	Calcasieu River near Kinder	1,700	8/22-1/25, 10/38-9/57, 10/61-9/62
8-0164	Beckwith Creek near De Quincy	148	8/45-9/62
8-0166	Hickory Branch at Kernan	82.2	8/45-9/57
8-0168	Bear Head Creek near Starks	177	3/56-9/62

Table A-3.--Rainfall Gages in southwestern Louisiana

Station name	Type of station	Years of record	Latitude	Longitude
Alexandria WB-AP	R	3	31°24'	92°18'
Alexandria	R	74	31°19'	92°28'
Basile	NR	14	30°29'	92°37'
Bayou Dupont No. 2 (USGS)	R	3	31°42'	93°26'
Bayou Dupont No. 8 (USGS)	R	5	31°43'	93°22'
Bayou Dupont No. 9 (USGS)	R	3	---	---
Fontenot Pond (USGS)	R	8	30°46'	92°32'
Blackwell Creek (USGS)	R	3	31°35'	93°28'
Bon Wier	R	47	30°45'	93°37'
Bunkie	NR	74	30°57'	92°10'
Camp Polk	NR	17	31°04'	93°12'
Cheneyville	NR	67	31°01'	92°17'
Church Point	R	2	30°25'	92°13'
Colfax	NR	25	31°31'	92°43'
Converse	NR	18	31°47'	93°43'
Coushatta	NR	8	32°01'	93°20'
Crowley	NR	52	30°15'	92°22'
De Quincy	NR	37	30°31'	93°26'
De Ridder	NR	40	30°50'	93°18'
De Soto Fire Tower	NR	2	31°58'	93°34'
Deweyville	NR	8	30°18'	93°45'
Dry Creek	R	1	30°40'	93°02'

Table A-3.--Rainfall gages in southwestern Louisiana--Continued

Station name	Type of station	Years of record	Latitude	Longitude
Elizabeth	NR	69	30°52'	92°48'
Eunice	NR	2	30°30'	92°25'
Forest Hill	R	7	31°03'	92°31'
Glenmora	R	15	30°58'	92°35'
Gloster	NR	15	32°12'	93°50'
Gorum	NR	9	31°25'	92°54'
Grand Coteau	NR	76	30°26'	92°02'
Hickory Grove	R	18	31°26'	92°14'
Hineston	NR	8	31°11'	92°45'
Hornbeck	NR	18	31°23'	93°24'
Hunter	NR	15	31°59'	93°50'
Loring Lake (USGS)	R	9	31°36'	93°35'
Jennings	NR	65	30°14'	92°40'
Smithhart Pond (USGS)	R	6	30°44'	93°01'
Kinder	NR	19	30°30'	92°54'
Lafayette	R	11	30°13'	92°01'
Lake Charles	R	69	30°07'	93°13'
Lake End	NR	20	31°55'	93°18'
Leesville	R	37	31°09'	93°16'
Logansport	R	7	31°59'	93°57'
Longville	NR	18	30°36'	93°14'
Mansfield	NR	8	32°01	93°44'

Table A-3.--Rainfall gages in southwestern Louisiana--Continued

Station name	Type of station	Years of record	Latitude	Longitude
Many	NR	9	31°34'	93°28'
Melville	NR	76	30°41'	91°45'
Milam	NR	11	31°28'	93°44'
Mittie	NR	8	30°42'	92°53'
Montgomery	R	22	31°40'	92°54'
Natchitoches	NR	42	31°46'	93°05'
Oakdale	NR	9	30°49'	92°40'
Oberlin	NR	10	30°36'	92°47'
Opelousas	R	13	30°33'	92°05'
Pitkin	NR	1	30°55'	92°55'
Rayne	NR	8	30°20'	92°16'
Robeline	NR	61	31°41'	93°18'
Simpson	NR	16	31°16	93°00'
Singer	NR	8	30°39'	93°25'
Sugartown	NR	8	30°51'	93°01'
Ville Platte	NR	36	30°40'	92°19'
Vinton	NR	8	30°11'	93°35'
Woodworth	NR	6	31°08'	92°28'
Lewis and Killian Lake (USGS)	R	7	31°12'	93°18'

Note: R represents a station with hourly totals.
NR represents a station with daily totals.

Table A-4.--Thiessen weights for subarea I

Station number	Station name	Raingage	Thiessen weight
7-3517.8	BAYOU DUPONT SUBWATERSHED NO. 2 NEAR MARTHAVILLE		
		Bayou Dupont No. 2	1.00
7-3519	BAYOU DUPONT NEAR ROBELINE		
		Many	1.00
7-3538	YOUNGS BAYOU AT NATCHITOCHES		
		Natchitoches	1.00
7-3540	LITTLE SANDY CREEK AT KISATCHIE		
		Hornbeck	0.61
		Simpson	.39
			1.00
		Alternate	
		Leesville	1.00
7-3545	HORSEPEN CREEK NEAR PROVENCAL		
		Robeline	1.00
		Alternate	
		Many	0.18
		Natchitoches	.82
			1.00
7-3550	HEMPHILL CREEK NEAR HOT WELLS		
		Hineston	1.00
		Alternate	
		Alexandria	0.48
		Woodworth	.52
			1.00

Table A-4.--Thiessen weights for subarea I--Continued

Station number	Station name	Raingage	Thiessen weight
8-0130	CALCASIEU RIVER NEAR GLENMORA		
		Gorum	0.11
		Simpson	.50
		Hineston	.29
		Leesville	.07
		Glenmora or Forest Hill	.03
			1.00
		Alternate	
		Elizabeth	0.07
		Glenmora or Forest Hill	.13
		Woodworth	.10
		Colfax	.16
		Leesville	.53
		Montgomery	.01
			1.00
8-0230	BAYOU CASTOR NEAR LOGANSPORT		
		Gloster	0.45
		Logansport	.55
			1.00
8-0235	BAYOU SAN PATRICIO NEAR NOBLE		
		Mansfield	0.46
		Converse	.54
			1.00
8-0240	BAYOU SAN MIGUEL NEAR ZWOLLE		
		Converse	0.71
		Lake End	.01
		Many	.18
		Loring Lake	.10
			1.00

Table A-4.--Thiessen weights for subarea I--Continued

Station number	Station name	Raingage	Thiessen weight
8-0240.6	BLACKWELL CREEK AT MANY		
		Many	1.00
		Alternate	
		Blackwell Creek	1.00
8-0241.6	HURRICANE CREEK TRIB AT LORING LAKE, NEAR ZWOLLE		
		Loring Lake	1.00
8-0242	BAYOU LA NANA NEAR ZWOLLE		
		Many	0.56
		Loring Lake	.43
		Milam	.01
			1.00
		Alternate	
		Many	0.90
		Milam	.10
			1.00
8-0255	BAYOU TORO NEAR TORO		
		Many	0.10
		Hornbeck	.90
			1.00
		Alternate	
		Many	0.73
		Milam	.22
		Leesville	.05
			1.00

Table A-4.--Thiessen weights for subarea I--Continued

Station number	Station name	Raingage	Thiessen weight
8-0275	BAYOU ANACOCO NEAR LEESVILLE		
		Hornbeck	0.64
		Leesville	.36
			1.00
		Alternate	
		Many	0.02
		Leesville	.98
			1.00
8-0276	WYATT CREEK TRIB AT LEWIS AND KILLIAN LAKE, NEAR LEESVILLE		
		Lewis and Killian Lake	1.00
8-0280	BAYOU ANACOCO NEAR ROSEPINE		
		De Ridder	0.06
		Camp Polk	.15
		Leesville	.58
		Hornbeck	.21
			1.00
		Alternate	
		De Ridder	0.09
		Leesville	.70
		Hornbeck	.21
			1.00
		Alternate	
		Many	0.01
		Leesville	.90
		De Ridder	.09
			1.00
8-0287	HOOSIER CREEK NEAR MERRYVILLE		
		Bon Wier	0.27
		Singer	.73
			1.00

Table A-5.--Thiessen weights for subarea II

Station number	Station name	Raingage	Thiessen weight
7-3818	SPRING CREEK NEAR GLENMORA		
		Hineston	0.39
		Glenmora or Forest Hill	.50
		Woodworth	.11
			1.00
		Alternate	
		Glenmora or Forest Hill	0.57
		Woodworth	.43
			1.00
7-3860	BAYOU CARENCRO NEAR SUNSET		
		Grand Coteau	0.77
		Lafayette	.23
			1.00
7-3865	BAYOU BOURBEAU AT SHUTESTON		
		Grand Coteau	1.00
8-0100	BAYOU DES CANNES NEAR EUNICE		
		Ville Platte	0.74
		Eunice	.26
			1.00
		Alternate	
		Ville Platte	1.00
8-0103	LONG POINT GULLY NEAR CROWLEY		
		Rayne	0.59
		Crowley	.41
			1.00

Table A-5.--Thiessen weights for subarea II--Continued

Station number	Station name	Raingage	Thiessen weight
8-0115	BOGGY BAYOU NEAR PINE PRAIRIE		
		Ville Platte	0.14
		Glenmora or Forest Hill	.20
		Bunkie or Cheneyville	.13
		Elizabeth	.03
			1.00
8-0117	BEAVER CREEK TRIB AT FONTENOT POND, NEAR BEAVER		
		Fontenot Pond	1.00
8-0120	BAYOU NEZPIQUE NEAR BASILE		
		Kinder	0.04
		Oberlin	.32
		Ville Platte	.30
		Oakdale	.27
		Glenmora or Forest Hill	.05
		Cheneyville or Bunkie	.02
			1.00
		Alternate	
		Jennings	0.10
		Elizabeth	.27
		Ville Platte	.50
		Glenmora or Forest Hill	.13
			1.00

Table A-5.--Thiessen weights for subarea II--Continued

Station number	Station name	Raingage	Thiessen weight
8-0135	CALCASIEU RIVER NEAR OBERLIN		
		Oberlin	0.04
		Mittie	.03
		Elizabeth	.13
		Oakdale	.09
		Glenmora-Forest Hill	.06
		Hineston	.20
		Simpson	.33
		Leesville	.05
		Gorum	.07
			1.00
		Alternate	
		Elizabeth	0.34
		Glenmora or Forest Hill	.12
		Woodworth	.07
		Colfax	.10
		Leesville	.36
		Montgomery	.01
			1.00
8-0140	SIXMILE CREEK NEAR SUGARTOWN		
		Sugartown	0.10
		Pitkin	.78
		Simpson	.11
		Leesville	.01
			1.00
		Alternate	
		Sugartown	0.54
		Elizabeth	.20
		Simpson	.24
		Hineston	.02
			1.00

Table A-5.--Thiessen weights for subarea II--Continued

Station number	Station name	Raingage	Thiessen weight
8-0142	TENMILE CREEK NEAR ELIZABETH		
		Hineston	0.12
		Pitkin	.52
		Elizabeth	.36
			1.00
		Alternate	
		Elizabeth	1.00
8-0145	WHISKY CHITTO CREEK NEAR OBERLIN		
		Leesville	0.15
		De Ridder	.01
		Simpson	.08
		Hineston	.05
		Elizabeth	.21
		Sugartown	.44
		Mittie	.06
			1.00
		Alternate	
		Leesville	0.30
		Elizabeth	.70
			1.00
8-0148	BUNDICK CREEK NEAR DE RIDDER		
		Leesville	0.15
		De Ridder	.83
		Sugartown	.02
			1.00
		Alternate	
		Leesville	1.00
8-0149	JIM BURNEY BRANCH TRIB AT SMITHHART POND, NEAR DRY CREEK		
		Smithhart Pond	1.00

Table A-5.--Thiessen weights for subarea II--Continued

Station number	Station name	Raingage	Thiessen weight
8-0150	BUNDICK CREEK NEAR DRY CREEK		
		Leesville	0.08
		De Ridder	.64
		Sugartown	.23
		Longville	.01
		Mittie	.04
			1.00
		Alternate	
		Leesville	0.66
		Elizabeth	.34
			1.00
8-0155	CALCASIEU RIVER NEAR KINDER		
		Sugartown	0.15
		Elizabeth	.12
		Simpson	.16
		Glenmora or Forest Hill	.02
		Gorum	.03
		Camp Polk	.10
		Hineston	.10
		Oakdale	.04
		De Ridder	.07
		Oberlin	.03
		Kinder	.02
		Longville	.03
		Leesville	.03
		Mittie	.10
			1.00
		Alternate	
		Elizabeth	0.53
		Leesville	.34
		Glenmora or Forest Hill	.05
		Colfax	.05
		Woodworth	.03
			1.00

Table A-5.--Thiessen weights for subarea II--Continued

Station number	Station name	Raingage	Thiessen weight
8-0164	BECKWITH CREEK NEAR DE QUINCY		
		De Ridder	0.24
		Singer	.53
		De Quincy	.23
			1.00
		Alternate	
		De Ridder	0.39
		Longville	.27
		De Quincy	.34
			1.00
		Alternate	
		Leesville	0.37
		Bon Wier	.25
		Lake Charles	.38
			1.00
8-0166	HICKORY BRANCH AT KERNAN		
		De Ridder	0.05
		Singer	.17
		Longville	.78
			1.00
		Alternate	
		De Ridder	0.07
		Longville	.93
			1.00

Table A-5.--Thiessen weights for subarea II--Continued

Station number	Station name	Raingage	Thiessen weight
8-0168	BEAR HEAD CREEK NEAR STARKS		
		Singer	0.39
		De Quincy	.46
		Deweyville	.15
			1.00
		Alternate	
		Singer	0.39
		De Quincy	.54
		Vinton	.07
			1.00

Table A-6 7-3517.8 Bayou Dupont Subwatershed No. 2 (Bayou Dupont) near Marthaville, La.

Location.--Lat 31°41'50", long 93°25'50", in NW 1/4NE1/4 sec. 7, T. 8 N., R. 10 W., near center of dam on Bayou Dupont, 3.6 miles southwest of Marthaville, and 9.1 miles northeast of Many.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
11-22-60	47	2	0.50	0.10	0.17
1-06-61	1	-	6.30	5.03	4.64
3-16-61	11	-	2.95	2.09	1.72
4-11-62	15	-	1.92	.93	.91

Table A-6--cont. 7-3519. Bayou Dupont near Robeline, La.

Location.--Lat 31°42'15", long 93°19'38", in sec. 6, T. 8 N., R. 9 W., near left bank on south side of left overflow bridge on State Highway 120, three-quarters of a mile downstream from Bayou Adois, and 1.9 miles north of Robeline.

2-19-57	8	15	1.60	.67	.87
3-22-57	12	6	1.34	.50	.63
4-04-57	14	4	1.18	.77	.51
4-28-57	17	11	1.09	1.09	.42
6-28-57	26	13	2.12	.61	.77
11-14-57	46	17	1.16	.54	.47
11-19-57	47	3	1.72	.85	.80
11-23-57	47	13	1.69	1.55	.78
1-21-58	3	13	2.92	2.25	1.95
2-27-58	9	6	1.44	.66	.75
3-06-58	10	2	1.30	.89	.64
6-22-58	25	8	3.59	.92	1.61
9-21-58	38	-	5.29	1.69	2.56
3-21-59	12	1	1.04	.56	.46

Table A-6--cont. 7-3519. Bayou Dupont near Robeline, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
4-18-59	16	9	2.31	1.28	1.14
5-12-59	19	9	1.80	.52	.76
5-26-59	21	-	4.10	.98	2.15
2-21-60	8	3	1.68	.84	.92
2-25-60	8	10	1.80	1.01	1.00
1-01-61	1	2	1.06	.54	.55
1-07-61	1	20	5.30	3.22	3.75
1-13-61	2	6	1.02	.79	.54
1-25-61	4	5	1.69	.54	1.00
2-18-61	7	3	1.32	.55	.70
2-21-61	8	5	.97	.56	.47
3-17-61	11	7	3.40	1.18	2.05
3-30-61	13	16	.70	1.01	.27
4-12-61	15	3	1.33	.54	.57
12-12-61	50	2	1.97	.67	1.06
12-18-61	51	13	1.90	.92	1.05
1-24-62	4	5	1.70	.89	1.01
4-12-62	15	3	2.20	.49	1.09
5-01-62	18	8	2.30	.85	1.07

Table A-6--cont. 7-3538. Youngs Bayou near Natchitoches, La.

Location.--Lat 31°45'00", long 93°06'40", T. 9 N., R. 7 W., near center of span on downstream side of bridge on State Highway 6 at city limits of Natchitoches, and 3 miles downstream from Gumroot Branch.

9-22-58	38	35	10.44	5.64	6.72
4-19-59	16	9	2.14	.73	1.03

Table A-6--cont. 7-3538. Youngs Bayou near Natchitoches, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
4-26-59	17	1	0.86	0.61	0.31
2-22-60	8	7	1.35	.69	.70
2-25-60	8	8	2.13	1.17	1.21
1-01-61	1	5	1.10	.31	.57
1-08-61	2	38	4.80	3.60	3.42
1-25-61	4	6	2.00	.72	1.22
2-08-61	6	-	.79	.33	.38
2-21-61	8	30	3.71	2.15	2.39
3-18-61	11	10	2.05	1.45	1.10
3-31-61	13	2	1.36	.52	.63
6-20-61	25	5	.90	.40	.24
9-14-61	37	-	3.23	2.16	1.19
12-12-61	50	3	3.01	1.39	1.78
1-24-62	4	2	1.78	.92	1.0[illegible]
4-12-62	15	-	2.30	.78	1.[illegible]
[illegible]	18	5	2.50	1.17	[illegible]

Table A-6--cont. 7-3540. Little Sandy Creek at Kisatchie, La.

Location.--Lat 31°24'30", long 93°10'15", in SE1/4 sec. 15, T. 5 N., R. 8 W., on right bank at downstream side of bridge on State Highway 117, 0.5 mile south of Kisatchie, and 2 miles upstream from mouth.

10-04-49	40	13	3.72	.87	1.71
12-17-49	51	7	2.18	.86	1.24
2-09-50	6	6	.88	.64	.44
2-12-50	7	13	4.23	3.77	2.83
5-01-50	18	1	1.43	1.26	.57

Table A-6--cont. 7-3540. Little Sandy Creek at Kisatchie, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
5-13-50	19	6	1.04	0.87	0.37
6-01-50	22	3	2.40	3.15	1.03
6-03-50	22	9	6.29	5.08	3.74
5-30-50	22	9	2.42	1.00	1.05
11-03-50	44	4	3.76	1.73	1.98
1-02-51	1	11	3.96	2.64	2.66
3-27-51	13	15	2.27	1.17	1.20
5-02-51	18	13	4.72	2.49	2.70
4-03-52	14	10	4.76	1.93	2.93
3-11-53	10	3	.61	1.63	.25
3-14-53	11	8	1.53	1.35	.76
4-29-53	17	19	11.92	6.69	9.29
5-04-53	18	18	3.02	1.48	1.51
5-13-53	19	7	2.36	.79	1.08
5-17-53	20	4	1.77	2.09	.72
12-03-53	49	11	3.17	1.59	1.84
4-15-54	15	8	2.12	.85	1.04
4-16-54	16	7	2.03	.63	1.54
2-05-55	6	6	2.39	.91	1.45
4-12-55	15	8	1.85	1.26	.88
7-13-55	28	5	1.64	.68	.49
8-03-55	31	12	6.30	3.27	3.09
3-24-57	12	2	.22	.82	.07
4-28-57	17	4	1.04	.79	.40
11-08-57	45	4	1.57	.91	.66
11-18-57	46	3	.85	.68	.32

Table A-6--cont. 7-3540. Little Sandy Creek at Kisatchie, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
4-27-58	17	4	2.18	0.58	1.03
4-29-58	17	3	1.30	.44	.53
6-22-58	25	8	1.64	1.13	.55
8-24-58	34	8	2.50	1.41	.69
9-21-58	38	10	2.62	1.53	.94
11-18-58	46	17	1.30	.78	.54
2-02-59	5	22	2.71	1.48	1.70
10-26-60	43	1	.31	.22	.07
10-29-60	44	10	1.12	.56	.41
11-09-60	45	3	2.09	.43	.96
1-13-61	2	6	.48	1.06	.22
1-24-61	4	5	1.29	.63	.73
2-20-61	8	4	.71	.76	.32
3-17-61	11	7	5.44	4.88	3.67
3-30-61	13	7	.97	1.19	.41
11-22-61	47	4	1.63	.56	.74
9-16-61	37	-	----	4.33	----
12-09-61	49	2	1.29	.73	.60
5-01-62	18	8	2.43	1.33	1.14

Table A-6--cont. 7-3545. Horsepen Creek near Provencal, La.

Location.--Lat 31°36'05", long 93°12'05", in SW1/4 sec. 9, T. 7 N., R. 8 W., at bridge on State Highway 117, 3 1/2 miles south of Provencal, and 3 3/4 miles upstream from Sulphur Branch.

1-01-50	1	10	1.90	.79	1.10
1-05-50	1	9	2.75	1.34	1.72

Table A-6--cont. 7-3545. Horsepen Creek near Provencal, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
2-12-50	7	11	2.00	1.12	1.15
2-28-50	9	1	2.36	.84	1.37
5-01-50	18	9	6.54	4.98	4.14
5-30-50	22	9	3.25	.74	1.55
6-01-50	22	3	2.10	1.02	.86
6-03-50	22	18	5.56	2.89	3.18
1-02-51	1	3	3.05	1.29	1.94
3-27-51	13	13	1.91	.98	.97
4-23-52	17	8	1.92	.63	.88
3-10-53	10	17	4.28	1.69	2.75
4-29-53	17	18	8.09	5.31	5.63
5-04-53	18	2	3.12	1.30	1.58
5-12-53	19	2	1.90	.66	.81
5-13-53	19	3	2.92	1.62	1.42
5-17-53	20	4	2.86	2.30	1.36
5-18-53	20	6	5.47	3.59	3.19
8-03-55	31	12	1.96	1.00	.56
6-27-57	26	13	3.09	1.15	1.29
11-07-57	45	2	1.71	.97	.74
11-18-57	46	2	1.66	.82	.75
11-22-57	47	24	2.33	1.63	1.17
4-27-58	17	4	4.20	1.89	2.41
8-24-58	34	4	1.63	.67	.36
9-20-58	38	16	3.84	1.23	1.62
2-24-60	8	9	2.11	.92	1.21

Table A-6--cont. 7-3545. Horsepen Creek near Provencal, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
10-05-60	40	1	1.82	0.29	0.64
11-09-60	45	11	2.49	.97	1.20
1-13-61	2	9	1.20	.97	.66
1-07-61	1	13	4.04	3.03	2.72
1-24-61	4	7	1.44	.65	.83
2-20-61	8	2	.60	1.37	.26
3-17-61	11	7	2.66	1.40	1.51
3-29-61	13	1	1.34	.37	.62
9-13-61	37	2	3.36	1.02	1.26
12-11-61	50	6	2.40	1.97	1.35
1-23-62	4	5	1.67	1.14	.99
4-11-62	15	1	2.28	1.77	1.14
1-05-62	18	6	2.46	.86	1.16

Table A-6--cont. 7-3550. Hemphill Creek near Hot Wells, La.

Location.--Lat 31°17'50", long 92°44'10", in SE1/4NW1/4 sec. 25, T. 4 N., R. 4 W., near left bank on downstream side of bridge on State Highway 1200, a quarter of a mile upstream from Dyer Creek, and 3 1/4 miles southwest of Hot Wells.

11-18-48	46	12	3.55	2.48	1.97
11-26-48	48	13	3.16	1.15	1.77
2-10-49	6	10	2.10	1.07	1.24
3-21-49	12	3	2.21	.97	1.18
3-27-49	13	11	3.84	2.35	2.32
3-31-49	13	4	2.69	1.15	1.48
12-18-49	51	11	2.46	1.42	1.44

Table A-6--cont. 7-3550. Hemphill Creek near Hot Wells, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
2-13-50	7	28	3.31	4.49	2.10
4-29-50	17	8	1.84	1.04	.83
5-02-50	18	3	1.66	.86	.70
1-03-51	1	40	2.92	2.50	1.84
3-28-51	13	26	4.59	1.60	2.89
2-02-52	5	13	2.75	1.58	1.73
4-23-52	17	10	2.93	3.23	1.51
2-24-53	8	16	2.40	1.03	1.41
3-11-53	10	16	4.00	1.69	2.53
4-29-53	17	11	8.45	7.82	5.94
5-04-53	18	22	3.39	3.11	1.76
5-13-53	19	9	2.69	1.00	1.28
5-16-53	20	4	.98	1.22	.33
12-03-53	49	4	2.26	1.05	1.21
4-16-54	16	16	2.34	.82	1.15
5-01-54	18	12	5.27	1.48	3.14
5-03-54	18	8	2.64	1.01	1.28
2-06-55	6	23	3.15	1.98	2.02
4-13-55	15	6	3.39	2.63	1.89
8-03-55	31	3	3.68	1.23	1.40
1-22-56	4	9	2.18	.76	1.35
2-09-56	6	5	2.80	1.39	1.75
3-16-56	11	7	1.27	.82	.57
12-22-56	51	25	2.93	.91	1.79
3-21-57	12	4	1.56	.69	.76
6-28-57	26	17	4.49	1.02	2.19

Table A-6--cont. 7-3550. Hemphill Creek near Hot Wells, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
11-13-57	46	13	3.38	1.97	1.85
11-18-57	46	3	1.24	.74	.51
3-24-58	12	11	1.98	.91	1.02
8-24-58	34	5	5.21	1.53	2.08
1-30-59	5	16	2.31	.84	1.41
2-02-59	5	12	2.29	1.82	1.40
8-30-60	35	-	3.18	1.16	1.06
12-31-60	52	3	1.32	.65	.68
1-07-61	1	21	4.50	3.11	3.10
1-13-61	2	7	2.35	1.68	1.46
9-12-61	37	1	2.80	1.99	.97
11-23-61	47	3	1.77	.90	.82

Table A-6--cont. 8-0117. Beaver Creek tributary at Fontenot Pond near Beaver, La.

Location.--Lat 30°45'55", long 92°32'05", in NW1/4SW1/4 sec. 25, T. 3 S., R. 2 W., Louisiana meridian, 32 ft. west of concrete spillway, and 0.4 mile southeast of Beaver.

12-28-54	52	5	1.18	.71	.60
2-04-55	5	-	3.98	4.39	2.69
4-09-55	15	15	4.26	2.98	2.52
4-12-55	15	5	1.26	.84	.54
8-28-55	35	2	1.94	.16	.51
12-01-55	48	11	1.96	1.26	.98
2-08-56	6	3	1.26	.81	.67
3-11-56	10	10	1.22	.89	.59

Table A-6--cont. 8-0117. Beaver Creek tributary at Fontenot Pond near Beaver, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
4-10-56	15	3	1.32	0.69	0.57
12-19-56	51	10	1.72	1.00	.93
2-18-57	7	7	1.02	.77	.51
3-02-57	9	6	1.01	.82	.48
3-17-57	11	10	1.13	.90	.52
3-20-57	12	9	1.74	1.38	.87
4-16-57	16	13	3.50	3.15	1.93
6-05-57	23	2	1.75	1.31	.64
6-27-57	26	18	3.76	3.48	1.68
10-15-57	42	6	2.75	1.24	1.20
12-27-57	52	6	1.16	.99	.58
2-06-58	6	4	1.81	1.19	1.04
4-10-58	15	4	2.46	1.19	1.26
7-23-58	30	2	2.11	.43	.65
8-23-58	34	4	2.46	.54	.67
8-24-58	34	5	1.57	1.27	.34
3-04-59	9	10	1.63	1.36	.87
3-20-59	12	3	1.18	.65	.54
11-04-59	44	2	2.98	2.22	1.46
2-03-60	5	2	1.44	1.06	.81
3-23-60	12	4	1.19	1.01	.55
12-27-60	52	12	2.46	1.55	1.46
12-31-60	52	6	1.70	1.15	.94
2-21-61	8	15	1.92	1.27	1.08
3-14-62	11	10	.86	.25	.37

Table A-6--cont. 8-0130. Calcasieu River near Glenmora, La.

Location.--Lat 30°59'45", long 92°40'25", in SE1/4SE1/4 sec. 4, T. 1 S., R. 3 W., Louisiana meridian, on right bank on downstream side of bridge on State Highway 113, 1.0 mile upstream from Prairie Branch, and 4.6 miles northwest of Glenmora.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
2-12-46	7	27	3.16	3.22	1.99
3-28-46	13	7	2.12	1.80	1.10
2-13-48	7	12	1.13	1.53	.58
12-20-49	51	7	2.49	1.84	1.46
1-12-50	2	21	1.68	.78	.98
2-14-50	7	28	5.40	6.27	3.80
5-04-50	18	3	1.76	1.90	.75
6-05-50	23	43	5.53	5.18	3.03
1-05-51	1	31	4.17	3.86	2.83
3-31-51	13	15	4.62	2.47	2.91
5-06-51	18	13	1.72	1.23	.73
4-25-52	17	10	6.08	5.22	3.89
2-26-53	9	8	2.57	1.90	1.52
3-14-53	11	6	3.06	2.50	1.80
5-01-53	18	12	9.13	8.12	6.41
5-19-53	20	41	11.39	10.81	8.4
5-04-54	18	11	2.76	2.23	1.34
2-09-55	6	23	5.00	2.60	.49
4-14-55	15	7	3.06	1.68	1.66
8-05-55	31	12	4.39	3.39	1.82
12-26-57	52	25	3.39	1.26	2.15
7-01-57	26	14	4.06	1.12	1.90
9-23-58	38	8	3.76	2.28	1.57
2-05-59	6	22	3.10	3.14	1.98
1-03-61	1	5	3.00	2.15	1.90
1-10-61	2	20	4.77	3.09	3.39

Table A-6--cont. 8-0130. Calcasieu River near Glenmora, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
1-29-61	5	5	1.80	1.30	1.05
2-23-61	8	5	2.10	1.98	1.20
3-19-61	12	7	5.45	3.53	3.61
4-02-61	14	7	1.68	1.43	.79
9-16-61	37	3	.62	.93	.11
12-18-62	51	20	3.20	3.09	1.98

Table A-6--cont. 8-0230. Bayou Castor near Logansport, La.

Location.--Lat 31°58'10", long 93°58'10", in NW1/4 sec. 1, T. 11 N., R. 16 W., near Center of span on downstream side of bridge on U.S. Highway 24, 1.7 miles east of Logansport, and 2.5 miles upstream from Bayou Grand Cane.

3-15-56	11	2	1.24	.93	.59
4-06-56	14	9	4.05	3.47	2.38
5-03-56	18	-	4.11	2.67	2.26
4-05-57	14	5	1.73	1.03	.82
6-06-57	23	2	.70	.56	.19
11-09-57	45	7	2.68	1.79	1.32
11-15-57	46	4	1.38	1.04	.59
11-24-57	47	5	1.86	1.71	.88
1-22-58	4	8	1.90	1.42	1.15
5-05-58	18	10	1.90	1.24	.83
2-16-59	7	8	1.50	.93	.81
4-20-59	16	1	1.32	1.28	.56
12-17-59	51	26	4.29	1.77	2.83
2-26-60	9	7	1.54	.95	.81
3-04-60	9	3	1.60	1.33	.85

Table A-6--cont. 8-0230. Bayou Castor near Logansport, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
12-09-60	49	24	3.50	3.06	2.08
12-31-60	52	6	1.07	.95	.53
1-09-61	2	5	1.26	1.29	.70
1-26-61	4	-	2.09	1.10	1.29
3-18-61	11	15	2.53	1.52	1.42
3-28-61	13	23	2.75	1.98	1.52
3-31-61	13	4	1.62	1.93	.78
12-10-61	50	8	4.10	2.85	2.60
12-18-61	51	5	1.32	1.41	.67
1-16-62	3	2	1.26	.87	.72
1-28-62	4	8	1.24	.85	.70
3-10-62	10	4	1.44	.73	.72
4-13-62	15	2	1.45	.75	.64
5-02-62	18	2	1.84	1.10	.80

Table A-6--cont. 8-0235. Bayou San Patricio near Noble, La.

Location --Lat 31°43'15", long 93°42'25", in lot 38, T. 9 N., R. 13 W., near right bank on downstream side of bridge on U.S. Highway 171, 1.0 miles downstream from the Kansas City Southern Railroad Co. bridge, and 2.5 miles northwest of Noble.

2-24-53	8	7	1.62	.65	.88
3-11-53	10	16	7.06	5.40	5.08
4-30-53	18	15	8.27	4.67	5.60
5-05-53	18	16	3.85	3.04	2.08
5-17-53	20	21	4.92	4.05	2.78
5-13-54	19	-	3.63	1.87	1.89

Table A-6--cont. 8-0235. Bayou San Patricio near Noble, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
3-25-55	12	-	3.24	0.87	1.89
4-13-55	15	29	2.50	1.40	1.28
8-06-55	32	3	5.69	.82	2.50
4-07-56	14	9	2.91	1.49	1.57
3-12-57	11	1	1.96	.57	1.03
4-04-57	14	5	1.28	1.00	.56
6-04-57	23	7	3.01	.93	1.33
6-25-57	26	5	1.70	.32	.56
11-22-57	47	5	1.97	.93	.95
1-22-58	4	9	2.09	1.33	1.29
5-05-58	18	-	1.28	.88	.50
9-21-58	38	-	10.65	6.90	6.90
4-20-59	16	-	2.40	1.91	1.20
2-26-60	9	7	1.92	1.68	1.06
3-28-60	13	6	.94	.72	.40
12-10-60	50	12	2.10	1.63	1.14
1-09-61	2	18	2.39	1.74	1.49
1-27-61	4	3	2.14	1.07	1.32
2-22-61	8	1	1.76	1.25	.97
3-19-61	12	20	3.27	1.65	1.91
3-29-61	13	23	2.29	1.77	1.21
9-14-61	37	13	2.68	1.23	.91
12-18-61	51	24	2.98	2.99	1.81
5-02-62	18	3	3.38	1.64	1.75

Table A-6--cont. 8-0240. Bayou San Migual near Zwolle, La.

Location.--Lat 31°39'10", long 93°39'10", in NE1/4NW1/4 sec. 25, T. 8 N., R. 13 W., near right bank on downstream side of bridge on U.S. Highway 171, 1 3/4 miles northwest of Zwolle, and 3 1/2 miles upstream from Bayou Scie.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
3-26-49	13	2	1.83	2.64	0.92
12-20-49	51	5	1.44	.66	.75
1-06-50	1	9	2.15	1.70	1.32
1-13-50	2	13	2.83	2.35	1.83
1-18-50	3	5	1.42	1.32	.83
2-14-50	7	11	2.21	2.32	1.29
2-23-50	8	6	1.49	1.23	.79
3-03-50	9	9	5.45	2.35	3.80
5-31-50	22	9	2.87	2.67	1.31
6-03-50	22	18	6.69	6.14	4.10
3-29-51	13	45	3.90	2.69	2.35
5-04-51	18	7	2.35	.72	1.09
4-14-52	15	6	2.33	1.28	1.17
4-25-52	17	8	2.13	.82	1.00
3-11-53	10	17	6.48	6.02	4.58
4-30-53	18	18	7.92	4.78	5.30
5-05-53	18	2	3.59	2.09	1.90
5-17-53	20	21	5.53	6.22	3.25
4-18-54	16	18	2.37	.94	1.18
5-14-54	20	4	1.70	.77	.68
4-13-55	15	31	3.28	1.06	1.80
4-08-56	14	14	2.00	.72	.99
2-21-57	8	8	2.29	.80	1.33

Table A-6--cont. 8-0240. Bayou San Migual near Zwolle, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
3-14-57	11	22	2.48	1.14	1.39
4-06-57	14	6	1.38	.87	.62
6-26-57	26	4	2.24	.98	.83
11-24-57	47	12	2.73	1.77	1.43
1-22-58	4	8	3.17	2.02	2.10
3-08-58	10	2	1.76	1.45	.92
9-21-58	38	73	8.68	4.08	5.19
4-20-59	16	30	2.73	1.06	1.41
2-26-60	9	15	2.20	1.70	1.26
12-11-60	50	132	4.28	2.07	2.75
1-08-61	2	20	5.10	3.92	3.68
1-15-61	3	3	.89	.62	.48
2-19-61	8	25	1.97	1.29	1.11
3-19-61	12	21	3.33	1.58	1.95
3-31-61	13	25	1.84	1.55	.92
9-14-61	37	22	6.01	3.48	2.90
12-12-61	50	16	1.32	.72	.65
12-18-61	51	23	3.27	2.46	2.03
5-02-62	18	7	2.34	1.48	1.09

Table A-6--cont. 8-0240.6 Blackwell Creek near Many, La.

Location.--Lat 31°34'50", long 93°27'45", in lot 39, T. 7 N., R. 11 W., near center of span on downstream side of bridge on State Highway 6, 0.2 mile northeast of Many city limits, and 0.9 mile above mouth.

2-21-60	8	12	1.68	.82	.92
2-24-60	8	6	2.13	1.27	1.22

Table A-6--cont. 8-0240.6 Blackwell Creek near Many, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
9-26-60	39	4	1.92	0.41	0.65
11-09-60	45	1	1.02	.67	.38
12-31-60	52	4	1.01	.73	.50
1-07-61	1	9	5.30	4.30	3.78
1-24-61	4	4	1.52	1.23	.88
2-17-61	7	4	1.08	.80	.55
2-20-61	8	5	.76	1.17	.35
3-17-61	11	10	3.64	1.87	2.23
7-30-61	31	2	.52	.26	.08
8-06-61	32	1	1.74	.43	.43
9-13-61	37	10	3.07	3.51	1.11
12-09-61	49	-	1.72	1.00	.86
12-11-61	50	5	1.97	1.61	1.06
12-17-61	51	6	1.90	1.70	1.05
1-23-62	4	8	2.40	2.16	1.52
4-27-62	17	2	1.81	.67	.82
5-01-62	18	5	2.26	1.29	1.04

Table A-6--cont. 8-0241.6 Hurricane Creek tributary at Loring Lake near Zwolle, La.

Location.--Lat 31°36'05", long 93°35'25", in lot 37, T. 7 N., R. 12 W., at edge of pool near middle of dam, 25 ft. right of control structure, 1.7 miles upstream from mouth, and 3 miles southeast of Zwolle.

4-15-54	15	4	1.48	.55	.66
5-04-54	18	7	2.28	.29	1.05
4-09-55	15	16	2.34	.41	1.18
5-19-55	20	2	3.01	.96	1.45

Table A-6--cont. 8-0241.6 Hurricane Creek tributary at Loring Lake near Zwolle, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
8-03-55	31	5	1.75	0.72	0.47
8-03-55	31	5	1.02	.33	.22
2-08-56	2	4	1.18	.28	.64
3-12-56	11	3	1.26	.30	.60
6-28-56	26	4	1.22	.18	.36
2-18-57	7	9	1.85	.21	1.05
3-12-57	11	2	1.01	.28	.45
4-28-57	17	5	1.82	.97	.82
1-20-58	3	10	3.05	1.83	2.05
4-27-58	17	2	2.16	.70	1.02
6-22-58	25	3	2.63	1.39	1.05
2-01-59	5	14	1.37	.19	.76
6-07-60	23	3	2.96	.26	1.30
6-25-60	26	10	4.80	1.20	2.39
1-06-61	1	9	2.75	1.73	1.72
3-16-61	11	11	4.03	1.25	2.54
3-17-61	11	-	1.64	.43	.83
6-25-61	26	3	1.74	.25	.58
9-11-61	37	7	3.04	.32	1.09
9-11-61	37	8	4.32	1.42	1.80
9-12-61	37	5	3.02	1.14	1.08
1-23-62	4	8	1.40	.75	.80
4-11-62	15	2	2.18	.53	1.07

Table A-6--cont. 8-0242. Bayou LaNana near Zwolle, La.

Location.--Lat 31°30'56", long 93°39'04", in NW1/4SE1/4 sec. 12, T. 6 N., R. 13 W., at bridge on State Highway 475, three-quarters of a mile downstream from Spring Branch, 4 miles upstream from mouth, and 8 miles south of Zwolle.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
2-04-56	5	2	0.62	0.46	0.30
2-09-56	6	4	1.20	.52	.63
2-19-57	8	6	2.11	.34	1.21
3-13-57	11	1	1.01	.34	.45
3-22-57	12	5	1.29	.33	.60
4-05-57	14	5	1.45	.49	.66
4-26-57	17	1	1.42	.33	.60
5-02-57	18	1	1.12	.69	.42
11-19-57	47	-	1.54	.60	.69
11-24-57	47	-	.82	.76	.31
12-28-57	52	4	.96	.34	.47
1-22-58	4	7	3.39	2.26	2.28
2-11-58	6	3	1.32	.46	.71
2-27-58	9	1	1.27	.44	.64
3-06-58	10	-	1.47	.60	.74
4-28-58	17	1	2.34	1.08	1.14
6-23-58	25	3	3.21	1.09	1.38
9-22-58	38	-	3.80	2.21	1.60
10-01-58	40	-	2.31	.35	.89
2-03-59	5	6	2.52	.61	1.56
2-15-59	7	3	.61	.38	.28
4-19-59	16	-	2.99	1.32	1.59
1-06-60	1	-	1.57	.32	.88

Table A-6--cont. 8-0242. Bayou LaNana near Zwolle, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
2-04-60	5	-	1.28	.35	.70
2-18-60	7	4	.61	.27	.28
2-22-60	8	3	1.47	.68	.78
2-26-60	9	4	1.77	1.02	.96
6-26-60	26	5	3.30	.45	1.41
9-27-60	39	2	4.41	.40	2.08
12-09-60	49	14	1.45	.54	.70
1-01-61	1	4	.96	.50	.49
1-08-61	2	5	4.60	4.36	3.24
1-13-61	2	1	1.05	.79	.56
1-26-61	4	4	1.57	.95	.92
2-18-61	7	1	1.30	1.22	.69
2-22-61	8	6	1.27	.92	.65
3-18-61	11	9	5.00	3.09	3.31
4-10-61	15	1	1.43	.43	.63
4-12-61	15	5	1.10	.56	.46
9-14-61	37	22	8.74	3.77	5.00
12-12-61	50	2	2.03	1.10	1.10
12-19-61	51	6	1.84	1.68	1.01
1-25-62	4	2	1.98	1.50	1.21
4-12-62	15	5	2.22	.51	1.10
4-28-62	17	2	1.80	.73	.81
5-02-62	18	5	2.30	1.29	1.07

Table A-6--cont. 8-0255. Bayou Toro near Toro, La.

Location.--Lat 31°18'25", long 93°30'56", in SW1/4 sec. 20, T. 4 N., R. 11 W., at bridge on State Highway 473, 0.2 miles upstream from Hamby Creek, 2.5 miles northeast of Toro, and 7.8 miles west of Hornbeck.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
2-04-56	5	2	0.79	0.37	0.39
5-09-56	19	4	1.33	.47	.51
2-19-57	8	7	1.60	.51	.86
3-21-57	12	5	1.36	.47	.64
4-04-57	14	6	1.82	.56	.87
4-11-57	15	3	1.50	.51	.67
5-02-57	18	4	.62	.33	.19
6-29-57	26	4	2.48	.52	.96
11-08-57	45	4	1.84	.48	.81
11-18-57	46	-	.74	.69	.26
11-23-57	47	3	2.15	1.27	1.05
12-28-57	52	4	1.18	.49	.59
1-21-58	3	3	1.74	1.06	1.05
4-14-58	15	4	1.03	.22	.42
4-30-58	18	3	1.45	.60	.59
6-23-58	25	8	1.83	.40	.64
8-24-58	34	8	3.08	1.10	.94
9-21-58	38	7	1.80	1.07	.55
9-28-58	39	1	3.88	.75	1.74
10-01-58	40	6	1.11	.45	.32
2-15-59	7	2	1.12	.42	.57
4-18-59	16	2	2.62	1.10	1.34
2-21-60	8	3	1.10	.44	.55
2-25-60	8	7	1.82	.81	1.01

Table A-6--cont. 8-0255. Bayou Toro near Toro, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
6-26-60	26	10	1.86	0.36	0.64
11-10-60	45	11	3.94	.53	2.17
12-09-60	49	13	1.82	.69	.93
12-31-60	52	7	1.14	.54	.57
1-08-61	2	6	2.06	1.48	1.25
1-12-61	2	7	1.00	.62	.53
1-25-61	4	4	1.60	.68	.94
2-22-61	8	-	1.24	.89	.63
3-17-61	11	20	7.72	4.28	5.67
9-13-61	37	10	6.34	6.36	3.17
12-12-61	50	2	1.66	.59	.86
12-17-61	51	6	1.28	.70	.65
5-01-62	18	5	2.67	1.08	1.29

Table A-6--cont. 8-0275. Bayou Anacoco near Leesville, La.

Location.--Lat 31° 09'35", long 93° 21'05", in NW1/4NW1/4 sec. 13, T. 2 N., R. 10 W., near left bank on downstream side of bridge on State Highway 8, 2 3/4 miles upstream from Prairie Creek, and 5 1/2 miles west of Leesville.

11-19-48	47	17	2.72	1.33	1.43
1-03-49	1	10	3.06	1.98	1.95
1-23-49	4	13	1.50	.66	.87
2-10-49	6	7	2.35	1.42	1.42
3-28-49	13	2	1.56	.72	.75
4-23-49	17	7	2.19	.41	1.04
4-28-49	17	1	2.38	.95	1.16
10-05-49	40	12	4.82	1.32	2.45

Table A-6--cont. 8-0275. Bayou Anacoco near Leesville, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
11-19-49	47	7	2.39	1.00	1.21
1-03-50	1	4	1.52	1.02	.85
1-07-50	1	8	1.18	.63	.62
1-12-50	2	2	1.00	.87	.53
2-11-50	6	17	1.96	1.15	1.14
2-13-50	7	12	3.90	3.43	2.56
3-05-50	10	4	1.48	.61	.75
4-30-50	18	5	2.61	1.19	1.25
5-03-50	18	2	1.47	.87	.59
6-03-50	22	9	8.43	5.82	5.57
1-03-51	1	42	6.76	3.25	5.04
3-28-51	13	22	4.08	1.70	2.49
5-02-51	18	13	4.12	2.01	2.27
4-24-52	17	10	4.37	2.10	2.54
2-26-53	9	2	2.02	.89	1.13
3-12-53	11	6	2.40	1.38	1.33
3-16-53	11	3	1.72	1.34	.88
5-05-53	18	2	3.02	1.20	1.52
4-29-53	17	12	11.83	7.46	9.24
5-14-53	20	2	2.39	1.05	1.07
5-18-53	20	40	10.32	7.17	7.38
12-05-53	49	10	3.18	.72	1.85
4-17-54	16	8	2.94	1.51	1.55
5-02-54	18	6	4.62	1.63	2.63
5-13-54	19	6	1.39	.58	.54
2-07-55	6	25	3.99	1.30	2.67

Table A-6--cont.-- 8-0275. Bayou Anacoco near Leesville, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
2-23-55	8	6	1.41	0.70	0.74
4-14-55	15	8	1.97	1.36	.95
8-03-55	31	19	7.55	4.79	4.03
7-29-55	30	2	1.58	.59	.43
2-05-56	6	20	1.79	1.03	1.03
12-24-56	52	25	2.54	.73	1.51
3-25-57	12	2	.87	.92	.37
4-05-57	14	2	1.61	.61	.75
5-02-57	18	4	.83	.47	.29
6-29-57	26	13	2.44	.52	.94
11-09-57	45	4	1.04	.86	.39
11-15-57	46	17	2.73	1.18	1.41
11-20-57	47	3	1.63	.54	.75
11-24-57	47	3	2.46	1.26	1.26
12-29-57	52	4	1.27	.74	.66
1-22-58	4	3	1.40	.86	.80
4-15-58	15	4	1.58	.76	.72
4-29-58	17	4	2.13	.95	1.00
8-25-58	34	8	2.18	1.82	.56
9-21-58	38	6	6.28	2.30	3.27
9-29-58	39	1	1.17	.55	.32
2-03-59	5	22	1.64	1.20	.94
12-18-59	51	2	1.85	.93	1.01
1-08-61	2	21	3.23	2.95	2.13
1-26-61	4	5	1.35	.85	.77
3-17-61	11	7	5.58	4.12	3.80

Table A-6--cont. 8-0275. Bayou Anacoco near Leesville, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
3-31-61	13	16	1.82	0.95	0.91
9-13-61	37	23	2.54	2.02	.84
5-02-62	18	8	2.99	.85	1.49

Table A-6.--cont. 8-0276. Wyatt Creek tributary at Lewis and Killian Lake, near Leesville, La.

Location.--Lat 31°12'30", long 93°18'30", in NE1/4 sec. 32, T. 3 N., R. 9 W., at edge of pool, 30 ft. upstream from right end of earth-filled dam, 1,000 ft. east of U.S. Highway 171, and 5 miles northwest of Leesville.

1-22-56	4	2	1.50	.56	.87
2-02-56	5	1	1.02	.55	.54
2-08-56	6	4	1.13	.75	.59
3-02-56	9	4	1.03	.23	.50
12-31-56	50	11	1.58	.37	.81
12-21-56	51	25	2.75	1.53	1.64
3-23-57	12	2	1.87	1.87	.96
6-27-57	26	3	2.18	.86	.79
7-22-57	29	3	3.06	1.45	1.14
9-12-57	37	4	2.12	.23	.65
10-23-57	43	1	.84	.45	.26
11-06-57	45	8	2.84	1.37	1.42
11-07-57	45	2	1.03	.53	.38
11-16-57	46	2	1.34	.96	.57
4-14-58	15	4	1.73	.82	.81
1-29-59	5	8	1.88	.73	1.11
4-11-59	15	5	1.03	.46	.42

Table A-6--cont. 8-0276. Wyatt Creek tributary at Lewis and Killian Lake, near Leesville, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
10-26-59	43	1	1.56	0.22	0.60
5-06-60	18	1	1.62	.54	.67
6-25-60	26	8	2.44	.28	.93
6-26-60	26	3	1.92	.24	.67
10-29-60	44	6	1.39	.80	.54
1-06-61	1	19	3.29	3.00	2.12
1-24-61	4	2	2.22	1.76	1.38
3-16-61	11	7	1.94	1.30	1.02
3-30-61	13	5	2.98	2.28	1.68
9-11-61	37	8	2.80	.58	.97
9-12-61	37	5	1.68	.80	.46
9-13-61	37	2	2.95	2.35	1.04
11-22-61	47	2	1.42	.99	.63
9-10-61	37	2	2.12	1.58	.65
4-30-62	18	4	1.85	.88	.80

Table A-6--cont. 8-0280. Bayou Anacoco near Rosepine, La.

Location.--Lat 30°57'10", long 93°21'10", on line between secs. 25 and 26, T. 1 S., R. 10 W., near center of span on downstream side of bridge on parish road from Rosepine to Evans, just downstream from Pocosin Creek, and 4.8 miles northwest of Rosepine.

2-02-52	5	12	2.35	1.01	1.44
4-13-52	15	6	1.19	.52	.50
4-24-52	17	10	6.45	5.83	4.22
5-26-52	21	12	2.28	.66	.99
7-18-52	29	39	4.56	.54	2.01
12-04-52	49	8	2.80	.37	1.58

Table A-6--cont. 8-0280. Bayou Anacoco near Rosepine, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
2-15-53	7	4	1.16	0.38	0.60
2-21-53	8	4	1.39	.41	.73
2-26-53	9	19	2.12	1.15	1.20
3-17-53	11	8	1.63	.40	.82
4-30-53	18	19	11.23	10.08	8.35
5-05-53	18	18	3.18	2.56	1.62
4-18-54	16	22	2.98	1.06	1.57
5-04-54	18	55	5.28	1.92	3.13
5-13-54	19	6	1.46	.55	.58
2-07-55	6	15	4.98	1.51	3.50
2-23-55	8	5	.98	.37	.48
4-15-55	15	7	2.95	2.17	1.58
5-20-55	20	13	1.83	.34	.76
7-16-55	29	14	1.41	.61	.38
8-04-55	31	20	7.15	6.39	3.72
2-04-56	5	20	2.51	1.01	1.57
2-09-56	6	5	1.56	.66	.87
3-03-56	9	4	1.63	.56	.87
3-16-56	11	5	2.01	.51	1.07
3-03-57	9	5	1.35	.39	.69
3-12-57	11	12	1.76	.55	.91
3-22-57	12	6	1.66	.42	.82
11-09-57	45	4	1.22	.89	.48
11-25-57	47	13	2.51	1.32	1.30
9-21-58	38	36	6.15	3.58	3.17
10-02-58	40	6	2.20	1.10	.83

Table A-6--cont. 8-0280. Bayou Anacoco near Rosepine, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
1-09-61	2	20	3.85	3.36	2.62
2-23-61	8	5	.87	1.67	.41
3-19-61	12	18	3.55	3.25	2.12
4-01-61	13	16	2.45	1.45	1.32
9-15-61	37	8	4.96	2.49	2.26
12-13-61	50	3	2.08	1.45	1.13
12-19-61	51	20	2.36	1.84	1.37

Table A-6--cont. 8-0287. Hoosier Creek near Merryville, La.

Location.--Lat 30°43'32", long 93°33'36", in SE1/4 sec. 11, T. 4 S., R. 12 W., at bridge on State Highway 389, 2 miles upstream from Pullem Branch, and 2 miles south of Merryville.

1-22-56	4	6	2.83	.85	1.84
2-09-56	6	3	2.10	1.07	1.24
12-22-56	51	24	5.01	2.31	3.43
3-12-57	11	13	3.39	1.77	2.05
3-18-57	11	9	2.31	1.07	1.27
3-21-57	12	5	1.30	.76	.61
6-28-57	26	13	3.84	1.35	1.75
11-08-57	45	2	1.99	1.28	.90
11-14-57	46	14	2.95	1.72	1.55
11-18-57	46	3	.59	.52	.20
11-23-57	47	-	1.31	1.35	.57
9-21-58	38	39	9.33	2.16	5.74
2-02-59	5	26	2.52	1.20	1.56
7-26-59	30	19	5.10	1.57	2.33

Table A-6--cont. 8-0287. Hoosier Creek near Merryville, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
8-21-59	34	10	0.79	0.85	0.12
12-16-59	50	12	2.14	1.20	1.17
4-30-60	18	5	2.40	.67	1.13
12-31-60	52	4	1.31	.78	.68
1-07-61	1	15	2.85	1.98	1.79
2-17-61	7	3	2.44	1.83	1.46
2-22-61	8	4	.89	.57	.43
3-17-61	11	18	3.65	1.45	2.22
5-02-61	18	1	1.26	.61	.49
7-17-61	29	5	.93	.66	.21
11-14-61	46	16	5.14	.90	3.17
11-17-61	46	21	2.93	1.62	1.54

Table A-7 7-3818. Spring Creek near Glenmora, La.

Location.--Lat 31°00'10", long 92°34'10", in SE1/4NE1/4 sec. 4, T. 1 S., R. 2 W., Louisiana meridian, near right bank on downstream side of bridge on U.S. Highway 165, a quarter of a mile upstream from Missouri Pacific Railroad Co. bridge, 2 miles north of Glenmora, and 7.9 miles above mouth.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
12-13-56	50	17	6.00	0.74	4.90
12-23-56	51	24	3.63	1.19	2.79
6-28-57	26	-	4.60	1.24	3.09
11-08-57	45	3	1.97	1.18	1.28
11-13-57	46	13	3.40	1.76	2.45
9-21-58	38	12	3.45	1.04	2.06
2-03-59	5	11	1.84	1.13	1.24
3-18-61	11	25	4.76	1.59	3.61
9-13-61	37	49	5.31	1.90	3.48
12-18-61	51	22	4.96	1.94	3.97

Table A-7--cont. 7-3860. Bayou Carencro near Sunset, La.

Location.--Lat 30°22'35", long 92°02'35", in lot 71, T. 8 S., R. 4 E., Louisiana meridian, near center of span on downstream side of bridge on U.S. Highway 167, 1 1/2 miles downstream from Texas and New Orleans Railroad Co. bridge, 2 3/4 miles southeast of Sunset, and 4 3/4 miles upstream from mouth.

11-07-43	45	14	5.36	4.86	4.06
2-05-45	6	-	1.70	1.67	1.13
8-12-45	32	4	.81	1.22	.34
1-05-46	1	4	2.01	1.71	1.42
3-08-46	10	6	1.50	1.65	.94
5-15-46	20	22	3.33	2.83	2.17
11-11-46	45	19	3.01	2.04	2.08
3-13-47	11	-	8.08	5.47	6.67

Table A-7--cont. 7-3860. Bayou Carencro near Sunset, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
4-11-47	15	-	2.41	1.68	1.57
5-20-47	20	-	3.62	3.13	2.41
3-02-48	9	3	3.19	2.48	2.27
12-07-48	49	5	1.92	1.80	1.37
2-08-49	6	-	2.07	1.20	1.41
3-30-49	13	5	2.58	2.23	1.72
4-22-49	16	2	2.16	1.48	1.37
7-15-49	28	3	2.93	2.03	1.73
10-08-49	41	13	3.43	2.72	2.24
1-06-50	1	43	5.21	5.00	4.20
1-27-50	4	8	1.79	1.23	1.22
2-13-50	7	13	2.58	1.99	1.82
3-19-50	12	2	2.02	1.77	1.31
3-27-51	13	8	2.96	1.98	2.03
4-04-52	14	4	2.77	1.74	1.85
4-23-52	17	4	2.88	1.91	1.89
4-25-53	17	14	5.82	3.76	4.32
5-13-53	19	5	3.31	1.56	2.20
5-18-53	20	13	5.49	3.79	3.95
12-09-53	49	6	1.88	1.70	1.34
2-05-55	6	17	6.75	5.92	5.46
2-21-55	8	13	2.85	2.18	2.00
4-10-55	15	16	2.93	2.38	1.96
12-02-55	48	12	3.66	2.06	2.78
6-28-57	26	21	7.13	3.54	5.26
10-16-57	42	19	3.54	1.67	2.38

Table A-7--cont. 7-3860. Bayou Carencro near Sunset, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
1-30-59	5	17	4.74	5.45	3.65
2-15-59	7	7	2.08	1.76	1.42
2-25-59	8	15	3.16	3.06	2.25
12-17-59	51	9	5.83	5.53	4.75
2-18-61	7	8	5.33	4.76	4.18
6-20-61	25	12	6.06	3.96	4.33
9-13-61	37	7	2.90	2.32	1.63

Table A-7--cont. 7-3865. Bayou Bourbeau at Shuteston, La.

Location.--Lat 30° 25'40", long 92° 05'30", in lot 174, T. 7 S., R. 4 E., Louisiana meridian, near center of span on downstream side of bridge on State Highway 178, three-quarters of a mile east of Shuteston, 1 3/4 miles northwest of Sunset, and 2 miles upstream from Bayou Sylvain and from Texas and New Orleans Railroad Co. bridge.

12-22-42	51	-	2.94	1.61	2.20
2-05-43	6	-	1.72	1.17	1.14
3-25-43	12	-	3.98	1.81	2.86
11-07-43	45	-	5.95	2.61	4.59
1-02-44	1	-	.90	1.62	.58
3-19-44	12	-	1.60	1.17	1.00
6-13-45	24	-	3.34	1.76	2.10
5-15-46	20	-	3.34	1.97	2.19
7-06-46	27	-	1.30	1.58	.65
12-10-47	50	-	3.26	2.24	2.49
3-02-48	9	-	4.15	2.85	3.09
3-22-49	12	-	2.25	1.77	1.48
3-29-49	13	5	2.63	1.86	1.77

Table A-7--cont. 7-3865. Bayou Bourbeau at Shuteston, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
7-16-49	29	-	4.15	3.62	2.65
1-06-50	1	43	5.32	5.29	4.29
1-27-50	4	8	1.37	2.48	.90
12-06-50	49	13	4.63	1.42	3.68
3-27-51	13	8	3.80	2.27	2.70
4-04-52	14	4	3.32	2.29	2.28
4-23-52	17	4	3.20	1.62	2.13
4-25-52	17	14	6.32	3.16	4.76
5-19-52	20	13	3.82	1.90	2.56
5-18-53	20	13	6.14	4.98	4.51
1-16-55	3	11	3.75	1.11	2.84
2-05-55	6	17	7.32	5.89	6.00
2-21-55	8	13	3.01	2.06	2.13
4-10-55	15	16	2.28	1.35	1.46
5-20-55	20	4	3.15	1.25	2.04
12-02-55	48	12	3.87	2.24	2.95
12-23-56	51	10	2.30	1.74	1.67
6-28-57	26	21	8.07	4.14	6.15
1-30-59	5	18	4.59	3.75	3.52
12-16-59	50	9	6.02	4.44	4.93
2-17-61	7	8	4.49	3.53	3.44
6-20-61	25	16	5.32	3.07	3.69
12-17-61	51	10	2.75	2.05	2.05

Table A-7--cont. 8-0100. Bayou des Cannes near Eunice, La.

Location.--Lat 30° 29'00", long 92° 29'25", in SW1/4SE1/4 sec. 32, T. 6 S., R. 1 W., Louisiana meridian, on left bank at downstream side of bridge on U.S. Highway 190, 3 miles downstream from New Orleans, Texas and Mexico Railway Co. bridge, and 4 miles west of Eunice.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
3-31-40	13	4	5.60	3.20	4.28
4-29-40	17	-	4.19	4.63	2.93
6-19-40	25	14	5.21	4.68	3.61
7-14-40	28	-	3.03	2.16	1.82
8-10-40	32	34	10.42	11.35	8.08
9-25-40	39	13	9.74	6.46	7.56
11-12-40	46	5	2.61	2.40	1.81
12-15-40	50	13	3.60	3.30	2.77
5-07-41	19	16	3.40	2.33	2.27
6-01-41	22	25	5.33	4.55	3.80
7-14-41	28	9	3.93	2.48	2.49
12-24-41	52	7	5.33	4.65	4.29
6-11-42	24	-	8.40	6.05	6.46
9-18-42	38	6	3.86	2.30	2.37
2-07-43	6	23	4.64	4.92	3.57
3-28-43	13	11	2.76	1.90	1.87
9-21-43	38	96	5.62	2.78	3.77
1-16-44	3	50	2.86	2.69	2.10
3-20-44	12	15	4.83	3.68	3.60
2-07-45	6	6	3.12	2.49	2.27
4-03-45	14	52	3.63	2.43	2.53
5-18-45	20	5	2.66	1.89	1.67
5-19-46	20	-	9.04	4.78	7.19

Table A-7--cont. 8-0100. Bayou des Cannes near Eunice, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
7-07-46	27	-	15.27	9.09	13.10
11-13-46	46	19	3.45	2.17	2.49
1-15-47	3	-	3.14	4.10	2.33
1-21-47	3	-	3.27	2.84	2.44
4-14-47	15	-	3.00	1.93	2.02
5-21-47	21	7	2.53	1.30	1.58
6-23-47	25	5	7.56	4.39	5.70
12-17-47	51	7	2.06	2.48	1.48
3-04-48	9	3	3.48	3.03	2.51
1-19-49	3	13	3.50	2.43	2.63
3-23-49	12	3	3.06	2.46	2.12
4-24-49	17	7	1.87	1.83	1.13
10-13-49	41	-	2.09	2.15	1.23
1-08-50	2	7	2.22	2.53	1.57
1-29-50	5	8	1.75	1.97	1.17
2-15-50	7	28	3.21	3.07	2.34
3-05-50	10	29	3.11	2.30	2.20
6-03-50	22	-	2.93	2.18	1.85
2-02-51	5	11	4.61	2.31	3.55
3-30-51	13	8	2.64	1.75	1.78
2-04-52	5	7	3.39	2.11	2.49
4-25-52	17	4	3.08	1.68	2.03
5-21-52	21	13	3.82	1.69	2.59
12-07-52	49	7	2.88	1.60	2.16
2-26-53	9	15	3.06	2.52	2.17
4-27-53	17	14	4.65	2.45	3.31

Table A-7--cont. 8-0100. Bayou des Cannes near Eunice, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
5-06-53	18	3	2.27	1.35	1.42
5-20-53	20	13	10.00	12.42	8.04
5-05-54	18	53	2.09	1.80	1.29
1-01-55	1	10	2.84	1.61	2.11
1-18-55	3	11	2.69	1.73	1.96
2-07-55	6	33	9.40	9.84	8.00
4-11-55	15	34	5.78	3.18	4.36
5-22-55	21	4	4.07	3.18	2.80
2-05-56	6	17	3.61	2.51	2.68
2-11-56	6	7	1.27	1.22	.81
3-17-56	11	7	2.16	1.65	1.43
12-16-56	50	11	3.63	1.46	2.79
12-24-56	52	10	4.36	4.24	3.43
4-18-57	16	11	3.88	2.95	2.73
6-30-57	26	21	6.66	4.79	4.84
10-18-57	42	4	2.60	1.78	1.65
11-11-57	45	2	2.56	1.50	1.73
11-17-57	46	19	3.44	1.52	2.49
12-31-57	52	4	1.81	1.27	1.27
3-08-58	10	5	1.68	1.07	1.08
3-26-58	13	14	2.60	1.35	1.74
2-01-59	5	17	4.90	5.20	3.79
2-13-59	7	5	2.88	2.73	2.06
2-26-59	9	30	2.90	2.71	2.04
4-13-59	15	78	2.93	2.52	1.96
6-11-59	24	20	4.06	3.22	2.68

Table A-7--cont. 8-0100. Bayou des Cannes near Eunice, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
11-08-59	45	3	2.69	1.44	1.83
12-19-59	51	25	5.03	3.76	4.03
1-02-61	1	3	1.61	1.90	1.11
1-10-61	2	13	2.62	1.77	1.91
2-19-61	8	23	4.35	4.45	3.25
6-22-61	25	16	2.65	1.79	1.59
8-02-61	31	3	2.73	2.26	1.56
9-15-61	37	2	3.07	1.47	1.74
11-16-61	46	17	5.71	4.46	4.45
12-19-61	51	10	2.56	2.56	1.89
1-29-62	5	3	2.94	2.51	2.12
4-09-62	15	1	2.29	1.01	1.48
6-07-62	23	1	.40	.84	.17

Table A-7--cont. 8-0103. Long Point Gully near Crowley, La.

Location.--Lat 30° 18'37", long 92° 23'49", on line between secs. 31 and 32, T. 8 S., R. 1 E., Louisiana meridian, on upstream side of center of bridge on State Highway 13, 2 3/4 miles upstream from mouth and 7 miles north of Crowley.

3-28-51	13	8	1.99	1.54	1.27
2-02-52	5	7	2.83	2.59	2.03
4-04-52	14	4	2.39	2.34	1.55
4-23-52	17	4	3.12	2.13	2.07
5-19-52	20	13	4.30	1.62	2.95
11-05-52	45	7	1.74	1.51	1.10
2-24-53	8	15	1.97	1.29	1.31
4-25-53	17	14	6.40	4.22	4.81

Table A-7--cont. 8-0103. Long Point Gully near Crowley, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
5-16-53	20	5	3.99	6.93	2.69
5-19-53	20	13	5.68	6.33	4.11
1-11-54	2	4	1.80	1.36	1.24
1-16-55	3	11	3.28	1.76	2.45
2-06-55	6	33	6.56	8.74	5.28
2-21-55	8	13	3.52	2.08	2.55
4-10-55	15	31	3.34	2.80	2.29
5-20-55	20	4	4.16	3.74	2.84
7-14-55	28	3	2.76	1.48	1.62
12-23-56	51	10	2.33	2.99	1.70
4-17-57	16	11	2.67	2.60	1.75
6-06-57	23	20	.76	1.88	.36
6-28-57	26	21	9.04	6.65	7.06
10-16-57	42	25	4.22	2.54	2.94

Table A-7--cont. 8-0115. Boggy Bayou near Pine Prairie, La.

Location.--Lat 30°47'10", long 92°28'30", in NW1/4NE1/4 sec. 21, T. 3 S., R. 1 W., Louisiana meridian, near right bank on downstream side of bridge on State Highway 482, 2 3/4 miles upstream from Beaver Creek and 3 miles west of Pine Prairie.

11-28-48	48	-	7.51	5.86	6.23
1-18-49	3	13	3.60	2.03	2.72
3-22-49	12	3	3.01	2.86	2.08
3-30-49	13	36	2.87	1.83	1.96
4-11-49	15	18	3.91	2.26	2.76
4-22-49	16	-	6.43	4.20	4.95
2-14-50	7	28	3.81	2.96	2.84

Table A-7--cont. 8-0115. Boggy Bayou near Pine Prairie, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
4-30-50	18	17	4.64	2.54	3.30
6-05-50	23	-	5.22	4.22	3.63
3-29-51	13	-	3.40	1.55	2.39

Table A-7--cont. 8-0120. Bayou Nezpique near Basile, La.

Location.--Lat 30° 28'50", long 92° 37'55", in NE1/4NW1/4 sec. 1, T. 7 S., R. 3 W., near left bank on downstream side of bridge on U.S. Highway 190, a quarter of a mile downstream from New Orleans, Texas and Mexico Railway Co. bridge, and 2 miles west of Basile.

4-02-40	14	-	4.57	2.94	3.31
5-02-40	18	-	4.26	2.97	2.99
6-21-40	25	11	4.52	4.18	3.04
8-11-40	32	34	8.17	10.09	5.94
9-27-40	39	13	4.69	2.12	3.09
12-17-40	51	31	4.26	3.26	3.35
5-09-41	19	16	3.76	2.68	2.56
6-03-41	22	-	6.62	2.63	4.92
12-26-41	52	-	3.81	4.34	2.95
2-08-43	6	10	3.29	2.83	2.40
3-30-43	13	8	2.72	1.75	1.84
9-22-43	38	12	5.94	2.61	4.02
1-18-44	3	50	3.14	2.56	2.33
3-22-44	12	15	4.38	3.59	3.22
2-09-45	6	10	3.05	2.14	2.21
4-05-45	14	-	3.63	2.03	2.53
1-15-46	3	-	7.15	4.91	5.91
5-21-46	21	-	8.69	3.75	5.84

Table A-7--cont. 8-0120. Bayou Nezpique near Basile, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
7-11-46	28	2	3.28	2.21	2.00
1-22-47	4	-	3.79	3.11	2.88
3-16-47	11	-	2.83	3.25	1.97
4-15-47	15	-	3.43	1.60	2.37
5-22-47	21	-	4.73	1.54	3.36
6-24-47	25	18	8.83	3.81	6.84
12-18-47	51	5	3.12	2.34	2.36
2-02-48	5	5	2.49	2.17	1.75
3-08-48	10	-	2.97	2.31	2.08
3-25-49	12	3	3.11	2.69	2.16
4-30-49	18	28	4.62	2.83	3.28
12-22-49	51	11	1.86	.91	1.32
1-12-50	2	3	2.96	1.61	2.18
2-16-50	3	-	3.30	2.90	2.46
3-07-50	10	5	2.52	1.93	1.73
5-06-50	18	18	3.56	1.74	2.42
6-07-50	23	-	4.08	2.90	2.70
2-03-51	5	75	4.56	1.89	3.50
4-27-52	17	10	2.95	2.25	1.94
2-28-53	9	16	3.34	1.89	2.40
4-28-53	17	11	3.78	1.52	2.60
5-20-53	21	-	17.37	14.54	15.90
5-06-54	18	11	5.64	2.93	4.15
2-08-55	6	38	10.01	10.99	8.56
4-14-55	15	-	6.80	3.87	5.26
5-23-55	21	21	7.94	6.20	6.24

Table A-7--cont. 8-0120. Bayou Nezpique near Basile, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
2-08-56	6	43	5.12	2.31	3.99
12-25-56	52	5	6.82	3.29	5.68
4-20-57	16	7	2.88	2.33	1.91
7-02-57	27	-	4.62	2.23	3.04
2-04-59	5	10	7.28	4.62	5.97
2-15-59	7	-	2.50	1.94	1.75
2-28-59	9	3	2.53	1.85	1.74
4-14-59	15	9	3.77	1.68	2.65
12-20-59	51	8	3.92	2.44	3.04
1-03-60	1	-	4.68	2.56	3.73
1-11-61	2	17	3.36	2.67	2.51
2-20-61	8	26	4.86	5.39	3.70
3-21-61	12	25	4.24	3.71	3.10
4-04-61	14	-	2.75	1.85	1.82
11-17-61	46	14	4.91	2.16	3.74
1-21-62	3	3	1.34	.88	.89
6-07-62	23	14	3.66	1.79	2.37

Table A-7--cont. 8-0135. Calcasieu River near Oberlin, La.

Location.--Lat 30°38'25", long 92°48'58", in NW1/4NE1/4 sec. 7, T. 5 S., R. 4 W., near right bank on downstream side of bridge on State Highway 26, 3 miles northwest of Oberlin, and 15 miles upstream from Whiskey Chitto Creek.

6-24-40	25	11	4.10	1.26	2.70
8-09-40	32	34	6.68	3.33	4.65
11-29-40	48	46	6.39	4.13	5.22
12-17-40	51	31	4.26	3.85	3.34

Table A-7--cont. 8-0135. Calcasieu River near Oberlin, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
5-10-41	19	16	3.83	3.08	2.62
7-09-41	28	2	3.23	1.45	1.96
11-05-41	45	-	6.35	2.44	4.96
3-11-42	10	3	1.04	1.88	.62
4-13-42	15	-	4.96	3.03	3.67
3-20-44	12	15	3.52	1.80	2.50
5-08-44	19	10	4.78	3.14	3.41
1-03-45	1	3	1.56	1.31	1.07
4-06-45	14	19	4.97	3.58	3.66
1-12-46	2	10	4.54	3.83	3.53
2-14-46	7	27	3.32	2.17	2.42
5-19-46	12	11	1.58	1.49	.98
1-21-47	3	-	4.50	4.27	3.50
4-13-47	15	-	3.62	1.94	2.52
11-29-48	48	72	4.22	2.33	3.26
3-31-49	13	-	4.97	4.95	3.71
4-24-49	17	28	3.81	2.00	2.61
4-28-49	17	15	1.62	1.51	.95
2-16-50	7	-	6.89	5.87	5.61
5-02-50	18	17	4.08	1.86	2.85
6-07-50	23	45	5.45	3.11	3.83
1-08-51	2	40	5.00	2.09	3.95
4-02-51	14	-	4.05	1.89	2.88
4-27-52	17	10	4.86	3.90	3.49
2-26-53	9	16	3.34	2.26	2.40
3-17-53	20	12	2.56	1.66	1.60

Table A-7--cont. 8-0135. Calcasieu River near Oberlin, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
5-03-53	18	9	11.67	9.04	9.94
5-19-53	20	29	18.18	12.58	16.50
5-04-54	18	9	7.77	4.11	6.04
2-06-55	6	38	6.82	3.06	5.53
4-17-55	16	6	2.70	2.13	2.10
5-21-55	21	13	3.71	1.80	2.50
8-08-55	32	20	6.63	3.18	4.59
2-12-56	7	3	1.99	1.76	1.35
11-15-57	46	13	4.65	4.64	3.52
11-25-57	47	28	2.55	1.74	1.81
9-26-58	39	51	5.16	2.89	3.48
2-08-59	6	126	5.45	2.64	4.29
1-12-61	2	17	4.57	4.20	3.57
2-25-61	8	-	6.43	4.24	5.11
3-21-61	12	78	5.36	3.48	4.08
12-19-61	51	22	4.20	4.14	3.30

Table A-7--cont. 8-0140. Sixmile Creek near Sugartown, La.

Location.--Lat 30°48'52", long 92°55'34", in NE1/4 sec. 12, T. 3 S., R. 6 W., on downstream side of bridge on State Highway 112, 2.0 miles downstream from Caney Branch, 5.5 miles east of Sugartown, and 6.6 miles upstream from mouth.

12-23-56	51	25	4.66	2.57	3.71
3-14-57	11	12	2.66	1.11	1.83
3-24-57	12	2	.93	.60	.53
7-01-57	26	13	4.17	1.15	2.74
10-16-57	42	6	3.54	.95	2.38

Table A-7--cont. 8-0140. Sixmile Creek near Sugartown, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
11-09-57	45	4	2.46	1.52	1.65
11-15-57	46	17	3.27	2.54	2.35
2-04-59	5	22	3.10	1.75	2.25
1-01-61	1	-	4.72	2.19	3.75
1-09-61	2	20	3.60	2.61	2.72
2-19-61	8	-	3.42	1.87	2.47
3-20-61	12	-	4.71	1.79	3.50
9-14-61	37	8	1.10	.99	.48
11-16-61	46	12	2.91	1.01	2.05
12-18-61	51	20	3.97	2.72	3.09

Table A-7--cont. 8-0142. Tenmile Creek near Elizabeth, La.

Location.--Lat 30°50'11", long 92°52'26", in NW1/4SW1/4 sec. 34, T. 2 S., R. 5 W., near left bank on downstream side of bridge on State Highway 112, 0.3 mile downstream from Carter Branch, and 5.3 miles southwest of Elizabeth.

1-06-51	1	6	2.42	1.11	1.76
3-31-51	13	-	3.19	1.03	2.22
12-16-51	50	11	1.18	1.08	.80
2-03-52	5	13	3.83	2.13	2.87
3-13-52	11	6	1.88	.65	1.23
4-07-52	14	5	3.36	1.07	2.31
4-24-52	17	10	2.51	1.73	1.60
5-19-52	20	22	4.28	.61	2.93
5-27-52	21	10	1.65	.68	.95
2-17-53	7	6	1.80	.60	1.20
2-26-53	9	5	3.65	2.39	2.66
4-30-53	18	9	4.62	4.97	3.29

Table A-7--cont. 8-0142. Tenmile Creek near Elizabeth, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
5-01-54	18	8	6.44	4.47	4.86
2-06-55	6	23	4.21	4.04	3.19
4-13-55	15	6	2.36	2.25	1.53
5-20-55	20	4	5.44	1.87	3.90
1-25-56	4	7	2.38	1.06	1.69
2-05-56	6	30	4.63	1.45	3.55
2-10-56	6	3	1.70	1.65	1.13
2-18-56	7	-	1.68	.76	1.10
3-11-56	10	4	2.03	.25	1.34
4-07-56	14	3	2.16	.75	1.38
12-15-56	50	21	7.81	.69	6.60
12-23-56	51	24	3.76	2.81	2.91
3-15-57	11	10	2.85	1.19	1.99
3-24-57	12	5	1.21	.98	.72
4-06-57	14	5	2.30	.62	1.48
7-01-57	26	29	3.99	.76	2.60
11-08-57	45	52	5.58	2.47	4.28
11-15-57	46	13	7.64	3.21	6.21
3-27-58	13	15	1.46	.59	.89
8-27-58	35	5	3.25	.66	1.85
9-22-58	38	12	5.33	2.77	3.52
3-05-60	10	-	1.52	.85	.96
12-11-60	50	4	1.00	.46	.66
1-01-61	1	3	1.60	1.35	1.10
1-09-61	2	17	3.84	2.45	2.92
1-16-61	3	4	1.20	.69	.78

Table A-7--cont. 8-0142. Tenmile Creek near Elizabeth, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
1-27-61	4	10	1.85	0.79	1.27
2-19-61	8	13	2.85	1.77	2.00
2-23-61	8	14	1.50	1.21	.96
3-19-61	12	2	4.49	1.99	3.31
3-31-61	13	2	3.78	1.53	2.69
7-12-61	28	20	2.27	.78	1.28
9-13-61	37	3	1.19	.52	.54
11-17-61	46	14	3.01	.73	2.13
12-18-61	51	22	4.87	4.12	3.89
1-21-62	3	15	1.18	.54	.77

Table A-7--cont. 8-0145. Whisky Chitto Creek near Oberlin, La.

Location.--Lat 30°41'55", long 92°53'35", in NE1/4NE1/4 sec. 20, T. 4 S., R. 5 W., near left bank on downstream side of bridge on State Highway 26, 1 mile downstream from Tenmile Creek, 8 miles upstream from Bundick Creek, and 10 miles northwest of Oberlin.

4-19-40	16	-	2.74	.67	1.81
5-02-40	18	-	3.87	2.00	2.66
6-19-40	25	11	2.60	2.01	1.56
8-10-40	32	30	7.73	6.25	5.57
11-27-40	48	41	5.95	3.39	4.80
12-15-40	50	26	5.55	2.59	4.50
12-30-40	52	18	2.70	1.26	1.99
5-07-41	19	32	4.50	2.58	3.17
6-02-41	22	32	5.62	1.71	4.05
7-05-41	27	24	4.32	1.20	2.80
11-01-41	44	-	4.88	3.19	3.58

Table A-7--cont. 8-0145. Whisky Chitto Creek near Oberlin, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
2-20-42	8	23	2.99	1.00	2.12
3-06-42	10	16	2.57	.64	1.77
3-10-42	10	7	1.06	1.63	.63
4-11-42	15	-	4.76	2.34	3.47
1-01-44	1	4	1.51	.79	1.04
1-04-44	1	6	2.62	.82	1.93
1-18-44	3	50	3.04	1.54	2.24
3-20-44	12	14	3.58	.88	2.55
5-07-44	19	10	2.43	1.65	1.53
1-08-45	2	8	1.66	.79	1.13
2-06-45	6	10	2.60	.95	1.84
3-21-45	12	55	1.48	1.35	.91
4-03-45	14	17	3.71	2.86	2.60
4-25-45	17	8	2.07	.87	1.27
5-20-45	20	3	2.54	.61	1.58
6-26-45	26	6	2.32	.70	1.34
7-17-45	29	1	1.14	.89	.54
1-12-46	2	5	1.86	1.46	1.29
1-20-46	3	6	1.49	.72	1.00
2-13-46	7	27	1.70	1.32	1.12
2-20-46	8	3	1.57	.66	1.01
3-29-46	9	7	1.26	1.86	.78
5-17-46	20	-	7.81	3.14	6.02
6-03-46	22	9	2.13	1.21	1.26
1-20-47	3	-	4.75	2.75	3.72
3-14-47	11	-	2.67	1.19	1.84

Table A-7--cont. 8-0145. Whisky Chitto Creek near Oberlin, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
4-12-47	15	-	3.83	1.86	2.70
6-21-47	25	1	3.39	.29	2.14
12-16-47	50	-	1.63	.92	1.13
11-23-48	47	1	1.29	.61	.83
11-29-48	48	11	4.94	1.55	3.89
1-05-49	1	10	1.01	.82	.66
3-23-49	12	3	2.94	.88	2.03
3-29-49	13	11	2.96	1.61	2.03
4-12-49	15	-	2.91	1.16	1.94
4-23-49	17	28	3.79	2.82	2.61
12-22-49	51	7	.94	.91	.61
1-15-50	3	21	1.98	1.18	1.39
2-14-50	7	13	4.23	3.43	3.21
5-01-50	18	17	4.23	4.11	2.95
6-04-50	23	15	4.33	3.32	2.90
2-05-52	6	13	3.39	1.49	2.50
4-25-52	17	10	3.99	2.26	2.75
5-20-52	20	27	3.84	.83	2.57
2-27-53	9	16	3.35	1.96	2.40
3-15-53	11	108	2.53	1.03	1.73
5-01-53	18	19	6.78	5.39	5.18
5-05-53	18	18	3.86	4.16	2.65
5-02-54	18	51	8.57	5.29	6.81
2-07-55	6	20	3.93	1.64	2.94
4-15-55	15	7	2.81	1.80	1.87
5-20-55	20	13	4.69	1.51	3.27

Table A-7--cont. 8-0145. Whisky Chitto Creek near Oberlin, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
8-05-55	31	20	5.56	2.61	3.78
2-04-56	5	20	2.41	1.27	1.69
2-08-56	6	5	1.92	1.51	1.31
12-24-56	52	25	4.52	2.05	3.55
3-16-57	11	12	2.62	.88	1.81
3-25-57	12	2	.86	.67	.48
10-17-57	42	6	4.17	.75	2.90
11-10-57	45	13	2.61	1.34	1.76
11-15-57	46	17	4.32	2.62	3.21
11-24-57	47	13	2.41	1.35	1.69
9-22-58	38	115	7.97	4.05	5.78
2-05-59	6	22	2.95	1.86	2.12
2-16-59	7	3	1.21	.98	.76
1-02-60	1	2	1.34	1.31	.90
1-10-61	2	20	4.09	2.65	3.14
2-21-61	8	37	1.43	1.17	.91
3-19-61	12	18	4.16	1.46	3.04
11-17-61	46	2	.59	.51	.33
12-19-61	51	20	3.76	2.81	2.91

Table A-7--cont. 8-0148. Bundick Creek near DeRidder, La.

Location.--Lat 30°49'09", long 93°13'51", in SW1/4NW1/4 sec. 7, T. 3 S., R. 8 W., near left bank on downstream side of bridge on State Highway 26, 1.1 miles downstream from Flat Creek, and 3.8 miles southeast of DeRidder.

3-05-56	10	4	1.75	.67	1.13
12-14-56	50	23	6.29	1.82	5.18
12-23-56	51	25	4.48	2.73	3.54

Table A-7--cont. 8-0148. Bundick Creek near DeRidder, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
3-13-57	11	12	2.80	1.67	1.95
3-19-57	12	7	1.72	.83	1.08
3-22-57	12	6	1.33	.90	.81
4-30-57	18	51	3.18	1.03	2.11
10-16-57	42	6	2.73	.74	1.74
11-08-57	45	53	5.61	2.48	4.29
11-14-57	46	17	2.55	2.01	1.77
11-19-57	47	29	2.17	1.27	1.50
11-23-57	47	13	1.72	1.62	1.15
12-29-57	52	5	1.35	.71	.91
2-24-58	8	7	.84	.62	.48
4-10-58	15	5	1.47	.61	.88
8-25-58	34	-	2.37	.96	1.27
9-18-58	38	4	2.11	2.15	1.12
9-21-58	38	31	5.51	3.89	3.67
1-31-59	5	7	2.35	.80	1.64
2-03-59	5	22	2.68	1.75	1.91
2-16-59	7	3	1.09	.57	.68
4-13-59	15	6	1.20	.57	.69
12-30-60	52	49	4.91	2.13	3.93
1-08-61	2	20	3.87	2.65	2.95
1-14-61	2	6	1.02	.57	.66
1-26-61	4	5	1.78	.70	1.22
2-18-61	7	21	4.08	2.57	3.07
2-22-61	8	5	.92	1.34	.55
3-18-61	11	18	2.69	1.19	1.86

Table A-7--cont. 8-0148. Bundick Creek near DeRidder, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
7-13-61	28	3	1.25	0.42	0.62
7-29-61	30	6	2.32	.66	1.25
9-14-61	37	8	2.89	1.33	1.62
11-14-61	46	13	3.94	1.78	2.90
11-24-61	47	4	1.35	.83	.87
12-18-61	51	20	3.74	2.74	2.89
1-06-62	1	3	1.39	.72	.94
2-16-62	7	1	1.70	.60	1.12
6-05-62	23	15	1.92	1.44	1.10

Table A-7--cont. 8-0149. Jim Burney Branch tributary at Smithart Pond near Dry Creek, La.

Location.--Lat 30°44'13", long 93°01'28", in SW1/4 sec. 6, T. 4 S., R. 6 W., 120 ft. left of right end of dam, 1.1 miles upstream from mouth, and 4.8 miles north of Dry Creek.

3-10-56	10	6	1.54	.89	.97
6-17-56	24	2	1.50	.13	.80
7-11-56	28	-	3.05	.86	1.83
3-17-57	11	9	1.39	.89	.86
3-20-57	12	6	1.20	1.00	.72
3-23-57	12	2	1.44	.99	.89
4-16-57	16	8	1.46	.88	.86
6-04-57	23	2	1.68	.70	.93
9-26-57	39	8	1.78	.16	.95
11-18-57	46	2	1.02	.82	.61
12-27-57	52	9	1.31	1.08	.88
4-09-58	15	2	1.16	.15	.67

Table A-7--cont. 8-0149. Jim Burney Branch tributary at Smithart Pond, near Dry Creek, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
6-06-58	23	1	1.99	0.47	1.14
2-14-59	7	9	1.43	1.26	.92
3-02-60	9	9	1.04	.77	.63
6-04-60	23	1	1.74	.16	.97
7-14-60	28	1	1.31	.27	.65
1-24-61	4	12	1.18	1.12	.76
2-16-61	7	6	1.49	1.10	.97
2-17-61	7	14	2.18	1.23	1.50
5-15-61	20	-	1.51	.19	.85
6-18-61	25	-	4.04	3.69	2.65
8-06-61	32	3	1.43	1.28	.69
11-02-61	44	24	2.40	.43	1.56
4-27-62	17	4	2.06	.89	1.27
4-30-62	18	3	1.72	.96	1.02

Table A-7--cont. 8-0150. Bundick Creek near Dry Creek, La.

Location.--Lat 30°40'55", long 93°02'15", in NW1/4NW1/4 sec. 25, T. 4 S., R. 7 W., near right bank on downstream side of bridge on State Highway 113, 1.1 miles north of town of Dry Creek, and 8 miles upstream from mouth.

8-09-40	32	23	8.82	7.19	6.56
11-26-40	48	41	6.35	4.50	5.17
5-06-41	18	10	5.34	3.31	3.90
5-30-41	22	-	4.90	3.02	3.43
11-02-41	44	-	6.13	3.01	4.68
3-11-42	10	3	.99	1.17	.58
4-10-42	15	-	5.56	2.75	4.18

Table A-7--cont. 8-0150. Bundick Creek near Dry Creek, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
1-02-44	1	6	2.59	0.80	1.91
1-15-44	3	3	3.04	1.43	2.25
3-19-44	12	14	3.73	1.05	2.67
4-25-44	17	2	2.12	1.61	1.31
5-06-44	18	10	2.40	1.19	1.52
3-20-45	12	5	.85	.68	.48
4-02-45	14	17	4.19	4.24	2.99
7-15-45	28	7	2.44	1.55	1.39
3-01-46	9	4	.80	.69	.46
3-29-46	13	2	1.64	1.57	1.01
5-16-46	20	7	1.44	.47	.80
6-02-46	22	9	2.26	2.38	1.36
6-09-46	23	6	1.62	.81	.89
1-20-47	3	-	2.79	1.71	2.04
3-13-47	11	-	2.71	1.55	1.88
3-30-47	13	-	1.01	.27	.58
4-11-47	15	-	2.95	1.34	1.98
6-21-47	25	6	1.80	.72	1.00
11-22-48	47	1	.89	.65	.54
11-29-48	48	11	4.32	1.90	3.35
3-24-49	12	3	2.74	1.75	1.87
4-12-49	15	1	1.66	.94	1.01
4-23-49	17	7	3.16	1.52	2.09
5-02-49	18	1	.92	1.19	.49
12-21-49	51	7	1.71	1.30	1.20
1-15-50	3	3	2.23	1.08	1.58

Table A-7--cont. 8-0150. Bundick Creek near Dry Creek, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
2-14-50	7	13	5.39	5.34	4.23
3-04-50	9	5	1.49	.93	.94
5-01-50	18	17	4.20	2.03	2.93
6-04-50	23	15	4.86	3.17	3.33
12-18-51	51	2	1.21	.98	.82
2-04-52	5	13	2.86	1.72	2.05
4-24-52	17	10	5.15	3.80	3.73
2-27-53	9	8	2.43	.91	1.67
4-30-53	18	19	9.44	4.89	7.64
5-05-53	18	18	4.50	3.32	3.18
5-19-53	20	11	11.18	8.80	9.20
12-07-53	49	11	2.60	.85	1.93
5-02-54	18	-	6.96	5.50	5.31
2-07-55	6	26	6.84	3.71	5.53
4-15-55	15	7	2.82	1.27	1.87
5-21-55	21	13	4.80	2.62	3.41
8-04-55	31	20	6.59	4.57	4.66
1-26-56	4	6	2.06	1.12	1.44
2-11-56	6	5	1.72	1.42	1.15
12-17-56	51	23	4.55	.96	3.59
12-24-56	52	25	4.48	2.55	3.55
3-15-57	11	12	2.22	1.23	1.49
3-25-57	12	2	1.17	.42	.69
10-18-57	42	6	3.14	.98	2.07
11-10-57	45	1	2.36	1.22	1.58
11-14-57	46	17	3.54	2.04	2.57

Table A-7--cont. 8-0150. Bundick Creek near Dry Creek, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
9-22-58	38	11	5.93	5.13	4.02
2-05-59	6	-	5.22	2.14	4.07
2-25-59	8	-	.91	.75	.54
4-19-59	16	9	1.46	.52	.86
1-01-60	1	24	3.15	2.08	2.38
1-09-61	2	20	4.16	2.55	3.20
2-19-61	8	-	1.02	1.70	.62
3-18-61	11	18	3.03	2.09	2.13
6-20-61	25	5	1.42	.49	.75
11-17-61	46	13	2.69	1.62	1.87
12-13-61	50	10	1.30	.48	.89
12-19-61	51	20	3.81	2.39	2.95
6-08-62	23	15	2.22	.93	1.30

Table A-7--cont. 8-0155. Calcasieu River near Kinder, La.

Location.--Lat 30°30'10", long 92°54'55", in NW1/4SE1/4 sec. 30, T. 6 S., R. 5 W., on left bank on downstream side of bridge on U.S. Highway 190, 0.5 mile downstream from Whisky Chitto Creek, and 4 miles west of Kinder.

5-02-40	18	-	2.93	1.77	1.92
6-20-40	25	11	3.09	2.19	1.92
8-10-40	32	34	8.51	6.31	6.28
11-27-40	48	10	5.48	4.34	4.37
12-15-40	50	10	4.95	3.31	3.96
5-08-41	19	10	4.75	3.16	3.39
6-01-41	22	27	4.95	2.07	3.48
11-03-41	44	-	5.20	2.82	3.85

Table A-7--cont. 8-0155. Calcasieu River near Kinder, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
3-12-42	11	82	3.47	2.29	2.49
4-12-42	15	-	4.83	2.48	3.53
1-16-44	3	50	3.10	1.86	2.29
3-21-44	12	15	3.61	1.73	2.57
5-09-44	19	10	4.44	2.66	3.13
12-29-44	52	38	4.92	1.62	3.93
4-03-45	14	52	4.78	3.38	3.49
1-13-46	2	10	6.54	4.82	5.37
2-15-46	7	10	2.91	1.81	2.07
3-18-46	11	117	9.17	3.22	7.73
6-03-46	22	23	5.12	1.64	3.62
6-10-46	23	17	1.88	1.08	1.07
1-22-47	4	-	4.71	3.93	3.69
3-15-47	11	-	2.64	1.54	1.82
4-14-47	37	-	3.66	1.86	2.17
6-22-47	25	6	2.95	1.23	1.82
12-17-47	51	57	2.79	1.37	2.08
11-30-48	48	48	4.50	2.28	3.50
4-01-49	13	100	4.85	4.01	3.61
4-25-49	17	25	4.70	2.62	3.35
2-15-50	7	-	6.52	5.01	5.26
5-02-50	18	84	5.93	3.05	4.42
6-05-50	23	-	7.81	4.86	5.88
1-10-51	2	129	5.08	1.37	4.01
4-28-52	35	10	4.42	3.32	2.73
2-28-53	9	16	3.10	2.24	2.20

Table A-7--cont. 8-0155. Calcasieu River near Kinder, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
5-19-53	20	142	18.18	13.97	16.57
5-05-54	18	53	8.55	4.91	6.80
2-07-55	6	38	7.34	4.43	6.01
5-22-55	21	13	4.00	2.36	2.75
8-06-55	32	85	7.11	3.67	5.01
2-05-56	6	43	5.28	2.47	4.13
12-25-56	52	24	3.76	2.61	2.90

Table A-7--cont. 8-0164. Beckwith Creek near DeQuincy, La.

Location.--Lat 30° 28'15", long 93° 21'35", in SE1/4NW1/4 sec. 11, T. 7 S., R. 10 W., near right bank at downstream side of bridge on State Highway 12, 300 ft. upstream from New Orleans, Texas and Mexico Railroad bridge, 2.3 miles downstream from Hams Creek, and 4.4 miles northeast of DeQuincy.

1-03-49	1	10	1.92	.94	1.36
2-19-49	8	3	1.59	1.00	1.02
3-22-49	12	3	3.13	1.82	2.18
3-27-49	13	2	1.35	.56	.81
3-31-49	13	2	2.51	2.66	1.67
4-11-49	15	2	2.44	1.83	1.60
4-24-49	17	4	2.50	3.01	1.59
12-19-49	51	7	2.46	1.08	1.82
2-14-50	7	13	5.28	4.22	4.13
3-04-50	9	5	2.51	1.65	1.74
4-29-50	17	9	3.11	2.86	2.06
2-02-52	5	17	3.20	1.71	2.34
4-25-52	17	10	6.23	3.53	4.68
7-17-52	29	13	5.50	2.64	3.74

Table A-7--cont. 8-0164. Beckwith Creek near DeQuincy, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
2-25-53	8	7	2.66	1.33	1.85
4-25-53	17	4	2.93	1.61	1.92
5-01-53	18	19	6.78	3.06	5.18
5-05-53	18	18	4.08	3.03	2.85
5-19-53	20	42	7.78	5.53	5.98
5-02-54	18	7	6.52	5.88	4.93
5-13-54	19	6	2.43	1.14	1.53
2-07-55	6	3	2.87	1.62	2.06
4-13-55	15	7	1.95	1.32	1.22
5-21-55	21	13	9.08	6.27	7.34
8-04-55	31	20	6.42	5.16	4.53
8-10-55	32	1	2.72	1.81	1.52
1-23-56	4	6	2.98	1.16	2.18
2-09-56	6	5	1.50	.45	.98
12-14-56	50	9	3.07	1.87	2.32
12-23-56	51	25	3.34	2.73	2.55
3-18-57	11	7	2.31	1.01	1.56
10-16-57	42	6	4.48	1.62	3.16
11-06-57	45	17	3.77	2.67	2.70
11-08-57	45	13	4.19	2.81	3.05
11-23-57	47	3	1.56	1.58	1.03
4-10-58	15	5	2.22	.66	1.43
9-21-58	38	36	8.37	8.12	6.16
1-31-59	5	7	3.27	1.63	2.40
2-03-59	5	22	2.96	2.45	2.13
2-25-59	8	32	3.28	1.86	2.35

Table A-7--cont. 8-0164. Beckwith Creek near DeQuincy, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
7-26-59	30	15	5.63	1.44	3.78
12-17-59	51	11	2.40	1.01	1.76
12-28-60	52	12	2.14	1.27	1.53
12-19-61	51	20	2.96	2.69	2.22

Table A-7--cont. 8-0166. Hickory Branch at Kernan, La.

Location.--Lat 30° 30'05", long 93° 16'45", in NW1/4 sec. 34, T. 6 S., R. 9 W., on right bank at upstream side of bridge on State Highway 12, 120 ft. upstream from New Orleans, Texas and Mexico Railroad Bridge, 0.7 mile southwest of Kernan, 3 miles upstream from Cowpen Creek, and 10 miles northeast of DeQuincy.

5-16-46	20	-	2.04	1.94	1.22
5-30-46	13	-	4.76	4.74	3.53
1-18-47	3	-	3.15	3.75	2.34
3-13-47	11	-	2.85	2.66	1.99
4-12-47	15	-	2.54	2.27	1.67
6-22-47	25	-	5.79	3.73	4.10
2-25-48	8	-	2.26	1.57	1.53
1-03-49	1	-	2.67	1.73	1.97
2-19-49	8	17	2.45	1.67	1.68
3-22-49	12	2	3.17	2.38	2.21
3-27-49	13	12	2.97	2.54	2.03
4-10-49	15	1	2.72	2.35	1.81
4-23-49	17	7	2.79	2.69	1.81
10-05-49	40	13	3.11	1.46	1.93
12-18-49	51	7	2.30	2.19	1.68
2-14-50	7	13	2.58	3.13	1.81

Table A-7--cont. 8-0166. Hickory Branch at Kernan, La.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
3-04-50	9	5	3.04	2.72	2.16
4-30-50	18	-	2.48	1.48	1.58
6-04-50	23	15	5.85	4.56	4.16
2-02-52	5	17	3.76	3.29	2.81
4-23-52	17	10	7.10	3.78	5.46
7-17-52	29	11	3.51	2.25	2.15
2-24-53	8	15	2.78	2.28	1.94
4-25-53	17	8	4.36	1.98	3.07
4-30-53	17	19	2.98	3.62	1.96
5-04-53	18	18	4.85	3.68	3.49
5-13-53	19	7	3.27	1.40	2.17
5-19-53	20	23	4.50	4.07	3.11
5-02-54	18	12	3.80	3.08	2.61
2-06-55	6	37	7.83	6.11	6.47
4-13-55	15	7	2.09	1.80	1.33
5-20-55	20	10	5.34	4.44	3.81
8-04-55	31	20	5.49	4.25	3.72
8-09-55	32	9	3.48	2.00	2.07
12-23-56	51	25	4.98	3.87	4.00
3-18-57	11	3	2.03	1.51	1.34
4-30-57	18	-	2.63	2.52	1.69

Table A-7--cont. 8-0168. Bear Head Creek near Starks, La.

Location.--Lat 30°13'59", long 93°37'44", in sec. 30, T. 8 S., R. 12 W., near right bank on downstream side of bridge on State Highway 12, 2.4 miles northeast of Starks, and 3.5 miles downstream from Green Island Marsh Creek.

Date of Storm	Week of Year	Duration (Hours)	Rainfall Depth (inches)	Actual Runoff (inches)	Computed Runoff (inches)
12-16-56	50	22	6.25	2.06	5.13
12-24-56	52	13	3.96	3.86	3.06
3-19-57	12	9	2.67	1.54	1.81
6-29-57	26	13	4.25	2.20	2.80
9-30-57	39	6	3.19	2.00	1.94
10-18-57	42	6	3.57	2.22	2.41
11-11-57	45	14	3.26	2.51	2.29
11-17-57	46	14	3.80	2.35	2.78
11-26-57	48	13	2.83	3.04	2.07
9-22-58	43	39	9.56	6.19	7.93
2-04-59	5	-	5.74	5.49	4.55
2-27-59	9	49	3.64	2.35	2.64
4-13-59	15	5	1.29	1.17	.75
7-28-59	30	19	6.57	2.94	4.54
12-19-59	51	12	3.17	1.39	2.40
1-02-61	1	4	1.39	2.60	.94
3-20-61	12	18	5.03	2.45	3.79
6-21-61	25	9	4.53	1.37	3.04
11-17-61	46	9	1.23	1.12	.76
12-20-61	51	21	2.15	2.75	1.56