UNITED STATES DEPARTMENT OF AGRICULTURE

AGRICULTURAL RESEARCH SERVICE

Soil and Water Conservation Research Division Southern Branch

in
cooperation with the
Central and Southern Florida Flood Control District
Crops Research Division
and
Florida Agricultural Experiment Station

ANNUAL REPORT

For Calendar Year Ending
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Fort Lauderdale, Florida

Everglades Project

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1963 ANNUAL REPORT EVERGLADES PROJECT

U.S.D.A. ACRICULTURAL RESEARCH SERVICE Soil and Water Conservation Research Division Southern Branch

In Cooperation with the

Central and Southern Florida Flood Control District
U.S.D.A. Crops Research Division
and
Florida Agricultural Experiment Station

Plantation Field Laboratory 5305 SW 12th Street Fort Lauderdale, Florida

U.S.D.A. PERSONNEL PREPARING REPORT:

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Participating Personnel are listed under individual Research Outlines.

TABLE OF CONTENTS

| | Page |
|---|------|
| Title Page | 1 |
| Table of Contents | 2 |
| General Introductory Statements | 3 |
| Reports of Individual Research Outlines: | |
| Fla PL-1, The Effect of Water Table Level, Climate, & Related Factors on Evapotranspiration & Crop Growth (SWC 6-bl) | 5 |
| Fla PL-2, The Effect of Water Table Level in Organic Soil on Soil Properties and Crop Production (SWC 6-bl) | 11 |
| Fla PL-3, Collection of Basic Agri-Hydrologic Data in Central and Southern Florida (SWC 2-bl, 2-b2, 2-b4) | 28 |
| Fla PL-4, The Influence of Evaporation, Transpiration, and Water Levels on Watershed Retention and Streamflow (SWC 2-bl, 2-bl,) | 37 |
| Fla PL-5, The Base Storage and Base Flow Relationships as Influenced by Climate, Characteristics and Conditions of Agricultural Watersheds (SWC 1-bl4, 2-bl4) | 42 |
| Fla PL-6, Rates and Amounts of Runoff as Affected by Climate, Characteristics and Conditions of Agricultural Watersheds (SWC 2-bl, 2-bl4) | 59 |
| Fla PL-7, Investigations of Sandy Trouble Spots in Dug Water Control Channels in the Fisheating Creek and Taylor Creek Areas of Florida (SWC 1-b4) | 84 |
| Fla PL-8, Subirrigation of Sod with Porous Tile (SWC 5-bl) | 86 |
| Fla PL-9, Strontium-90 Accumulation on Plant Foliage from Dry Fallout and Rainfall (SWC ll-b/4) | 90 |
| Miscellaneous | 91 |
| Summation of Significant Findings by Line Projects | 103 |
| Publications | 105 |
| Appendix | |

Changes in Personnel:

William C. Mills, Agricultural Engineer, reported for duty on February 18, 1963, and has been working on assignments in watershed engineering research.

William R. Moore, Jr., Engineering Technician, under a temporary appointment, resigned August 23, 1963 to continue his studies at the graduate level. This position was filled by John H. Howerton, Jr., at the time Mr. Moore left.

W. T. Forsee, III, was hired as an Engineering Aid from May 20, 1963, thru August 28, 1963, to assist in servicing the instruments and collecting data on the water-table plots at the Everglades Experiment Station.

James E. Browning, Engineering Technician, has been on sick leave since May 29, 1963 and expects to return to duty in May 1964.

Program Activity:

Research Outline SWC 11-b4 (Fla PL-9), which was concerned with strontium-90 accumulation on plant foliage, was terminated as of Oct. 7, 1963. A report was prepared and published in Science on the significant findings of this study.

Research activities continued essentially unchanged on all other lines of investigations. Research outlines in watershed engineering investigations are to be revised in early 1964 to conform with approved work and line project objectives. New research outlines are to be prepared to cover precipitation studies and organic soil subsidence from a watershed aspect. Research outline SWC 6-bl (Fla PL-1) on evapotranspiration studies is to be amended in 1964 to study evapotranspiration of grass under partial sod cover conditions.

Climatic Conditions:

Ground-water levels in southern Florida were below average at the beginning of the water year due to a prolonged deficiency in rainfall during normal wet season, except in isolated areas of south-central and southwestern Florida, where levels were slightly above average. Water levels declined through the normally dry winter and spring, then rose to near average levels during June in response to heavy rainfall. During the last quarter of the water year levels declined again to below average for the period of record, then rose sharply due to belated seasonal rainfall in the latter part of September.

Water levels in south Dade County and the Everglades National Park area were near record low during the spring months for the second consecutive year, but major losses were averted in most of the highly urbanized coastal areas within the regional water-management system.

The freeze in mid-December 1962 caused severe damage to citrus trees and vegetable crops in central Florida and scattered areas south of Lake Okeechobee. Monthly rainfall in 1963 was inadequate for January, March, April and October for the Belle Glade area. The total annual rainfall of about 50 inches is near normal.

Cooperative Activities:

Agricultural Research Service personnel of the Crops Research Division and Soil and Water Conservation Research Division held a work conference on April 3, 1963 to discuss recent results and future plans with cooperators and other interested agencies. Assistance was also given in cooperation with two state field day meetings held at the Plantation Field Laboratory on May 1 and 2, 1963. Total attendance at the work conference was 38, and for the two field day meetings approximately 210.

THE EFFECT OF WATER TABLE LEVEL, CLIMATE AND RELATED FACTORS ON EVAPOTRANSPIRATION AND CROP GROWTH

Line Project No.: SWC 6-bl Code No.: FLA PL-1

Prepared by: E. H. Stewart

Location of Experiment: Plantation Field Laboratory, Fort Lauderdale, and Everglades Experiment Station, Belle Glade, Fla.

Personnel Involved:

ARS - E. H. Stewart, J. R. Carreker, W. H. Speir, W. H. Moore Fla. Agr. Exp. Sta. - E. O. Burt, F. T. Boyd, and Frank Thomas

Date of Initiation: July 1957

Expected Duration: 7 years

Objectives:

To determine the inter-relation of evapotranspiration and yields between climate, soil moisture level, and growth stage for crops.

To determine the effects of water-table level on evapotranspiration, yield and quality of various crops grown on sandy and organic soils.

Need for Study: See 1961 Annual Report.

Design and Procedure: See 1961 Annual Report.

Experimental Data and Observations:

Mean daily evapotranspiration, ET, data for each month by Tifway bermudagrass with 12-, 24-, and 36-inch water-table levels for 1962 and 1963 are shown in Table 1. A complete tabulation of daily ET by plots with appropriate means are listed in Part IV, Division 3, of the Appendix. Water-balance data for bermudagrass grown in nonweighing evapotranspirometers with the various water-table levels in 1962 and 1963 are shown in Table 2. The data includes total annual rainfall, subirrigation, drainage water removed, and evapotranspiration. Yield data of bermudagrass clippings for 1963 are shown in Table 3. A total of 13 clippings were made with 9 being weighed for comparative growth ratings. Fertilizer applications were made 6 times during the year using a complete NPK fertilizer mixture. Graphic relations of recorded thermal radiation measurements with evaporation and evapotranspiration are shown in Figure 1.

Comments and Interpretations:

Total rainfall for 1962 and 1963 was nearly the same although the monthly distribution was quite different; particularly for the months of February, March, April, and December. Total ET for the respective water-table depths was essentially the same for the two years. However, there were significant differences in the mean daily ET for the same months for the two years (Table 1). These differences are usually

directly related to the available soil moisture and relative thermal radiation received during the respective periods. One exception is for the last quarter of 1963 when the mean ET for the 24-inch water-table plots was significantly lower than for the other two water-table levels. This was due mainly to a heavy infestation of nematodes in one of the plots of the 24-inch water-table treatment. All of the plots were treated with a nematicide the early part of December which corrected this problem. As in 1962, the average daily ET ranged from about 0.07 in. for the 3 winter months to about 0.14 in. for the period April thru August. During a six-week rain-free period between the latter part of February and early April, ET was about 23 percent less for the 36-inch water-table plots than for the 12-inch water-table plots.

Yield and quality of vegetative growth from the 24-inch and 36-inch water-table plots appeared to be better than from the 12-inch plots, as they were in 1962, but not of the same magnitude. The general health of the grass during the second year was below that of the first year. This may be contributed to nematode infestations and some disease problems but the extent of each was uncertain. Two complete years of data from a full stand of grass will be obtained by April 1964. Following this, present plans call for amending the research outline to cover new studies on potential ET from partial stands of grasses.

Graphic relations of radiation data obtained from various radiation measuring instruments to standard pan evaporation and evapotranspiration of Tifway bermudagrass are shown in Figure 1. These data are plotted as langleys per day based on ten-day means. Similarity of the curves indicate a high degree of correlation among the data from the various sources. Data from the Gunn-Bellani instrument was very close to that of measured evapotranspiration in both magnitude and rate of change. This instrument gives a measure of the integrated radiation reaching a blackened copper sphere, which contains water. The water vaporizes and condenses in a graduated receiver. The difference in readings between any two times is a measure of the total radiation utilized during that interval.

Similarly, the Beckman and Whitley thermal radiometer, which measures the net heat exchange, yielded data which were very close to that obtained from the standard evaporation pan. This instrument's radiometer sensing element is composed of thermopiles capable of sensing the net difference of the incoming and outgoing thermal radiation by generating a thermoelectric current. A coupled counter, which has the capacity of recording 500 counts per minute at 20 millivolts sensed from the radiometer sensing elements, records the total net radiation for any selected period of time.

The Campbell-Stokes sunlight recorder records, over a 24-hour period, sunlight reaching the instrument with sufficient intensity to burn a charred line on the chart by focusing the sun's rays to a point on the chart. Usually, if the sunlight is sufficient to cast a shadow it will be recorded on the chart. Although this instrument does not give a measure of highly diffused sunlight through clouds a good correlation of its measured sunlight and measured ET is obtained as shown in Figure 1.

From a practical standpoint any of the three radiation instruments mentioned above will furnish sufficient information to determine good estimates of potential ET when correlated for periods of known potential ET conditions. The data plotted in Figure 1 are for periods of ten days. Further studies of the data on hand are to be made to determine the degree of correlation based on from one- to five-day means. During periods of high potential ET the sandy soils of the area can hold only enough soil moisture in the root zone to last from 3 to 5 days before it becomes a limiting growth factor.

Summary:

- 1. With similar total annual rainfall for 1962 and 1963, the total ET of bermudagrass was very nearly the same for the two years. However, monthly ET varied somewhat depending on available soil moisture and radiant energy.
- 2. Average daily ET ranged from 0.07 in. for the 3 winter months to 0.14 in. for the period April thru August.
- 3. During an extended dry period of 6 weeks ET was about 23 percent less for the 36-inch water-table plots than for the 12-inch water-table plots.
- 4. Good correlation exists between recorded radiant energy measured at the earth's surface and measured potential ET and standard pan evaporation.

Table 1. Evapotranspiration by Tifway bermudagrass grown in lysimeters at various water table depths, 1962-63

| | Average daily evapotranspiration | | | | | | | | | | |
|---|---|---|---|---|---|---|---|--|--|--|--|
| Month | | 1962 | | | 1963 | | | | | | |
| | Wate | r table d | ep th | Wat | Water table depth | | | | | | |
| | 12" | 24" | 36 " | 12 " | 24" | 36" | Average | | | | |
| | inches | inches | inches | inches | inches | inches | | | | | |
| Jan. Feb. March April May June July Aug. Sept. Oct. Nov. Dec. | 0.068 .108 .115 .142 .176 .120 .137 .122 .130 .124 .094 | 0.062 .105 .104 .134 .170 .118 .143 .143 .121 .087 .066 | 0.056 .098 .100 .128 .164 .139 .134 .148 .132 .108 .076 .058 | 0.075 .089 .137 .159 .156 .118 .154 .132 .095 .111 .084 | 0.073 .085 .119 .144 .150 .125 .157 .121 .094 .090 .063 .052 | 0.078 .087 .106 .135 .148 .126 .155 .154 .109 .092 .069 .057 | 0.069 .096 .114 .141 .161 .125 .147 .137 .115 .108 .079 | | | | |
| Average | .117 | .115 | .112 | .115 | .106 | .110 | | | | | |

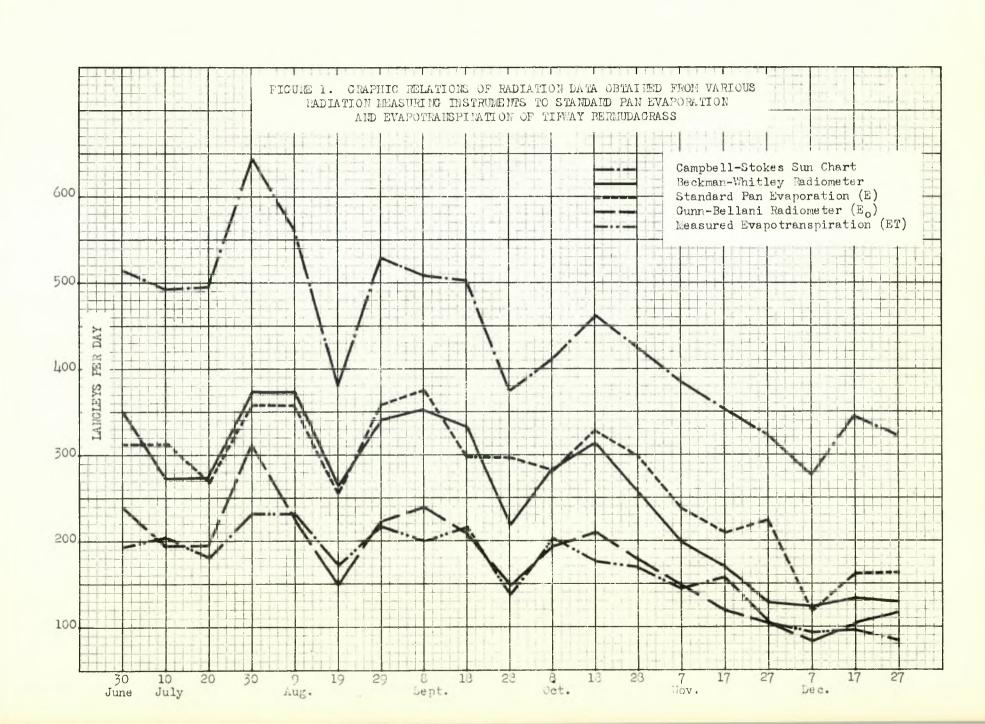
Bermudagrass was sprigged on November 16, 1961 and the water table maintained at 12, 18, and 24 inches, respectively, until March 15, 1962 to assure uniform stand establishment.

Table 2. Water balance data for Tifway bermudagrass grown in lysimeters at various water table depths, 1962-63

| Year | Water table depth | Rainfall | subirrig. | removed | Evapotrans- piration |
|------|----------------------|----------|----------------|---------|-------------------------|
| | | | Inches of wate | er | |
| 1962 | 12" | 51.5 | 31.5 | 39 • 7 | 43.3 |
| | 24" | 51.5 | 26.3 | 35 • 2 | 42.6 |
| | 36" | 51.5 | 20.4 | 30 • 7 | 41.2 |
| 1963 | 12" | 52.9 | 29.8 | 41.0 | 41.7 |
| | 24" | 52.9 | 24.4 | 38.8 | 38.5 |
| | 36" | 52.9 | 19.3 | 32.1 | 40.1 |

Table 3. Yield of Tifway bermudagrass as affected by water table depth, 1963

| Cutting | Water table depth | | | | | | | | |
|---------------|-------------------|----------------|--------|--|--|--|--|--|--|
| dates 1963 | 12-in. | 24-in. | 36-in. | | | | | | |
| | | Pounds per acr | е | | | | | | |
| 1/2 | 142 | 279 | 235 | | | | | | |
| 1/15 1/29 | 119 | 100 | 117 | | | | | | |
| 1/29 | 265 | 148 | 166 | | | | | | |
| 2/13 | 132 | 150 | 126 | | | | | | |
| 2/25 | 70 | 121 | 181 | | | | | | |
| 3/18 | 121 | 103 | 87 | | | | | | |
| 9/4 | 136 | 200 | 325 | | | | | | |
| 9/16 | 89 | 101 | 105 | | | | | | |
| 10/15 | 105 | 1/41 | 114 | | | | | | |
| Total | 1180 | 1340 | 1460 | | | | | | |



THE EFFECT OF WATER TABLE LEVEL IN ORGANIC SOIL ON SOIL PROPERTIES AND CROP PRODUCTION

Line Project No.: SWC 6-bl Code No.: FLA PL-2

Prepared by: E. H. Stewart and W. H. Speir

Location of Experiment: Everglades Experiment Station, Belle Glade, Fla.

Personnel Involved:

ARS - E. H. Stewart, W. H. Speir, J. R. Carreker, and W. T. Forsee, III.

Fla. Agr. Exp. Sta. - Frank Thomas, H. W. Burdine, V.E. Green, Jr.,

E. D. Harris, Jr., J.R. Orsenigo, P. L. Thayer,

F. T. Boyd, and Victor Guzman

Date of Initiation: October 1958

Expected Duration: 7 years

Objectives: To determine the effects of depth to water table in Everglades peaty muck on:

- 1. Physical, chemical, and biological soil properties
- 2. Fertility requirements
- 3. Yield and quality of vegetable and fiber crops
- 4. Insects and their control
- 5. Weeds and their control
- 6. Incidence of diseases and control

Need for Study: See 1961 Annual Report.

Design and Procedure: See 1961 Annual Report.

Experimental Data and Observations:

The periodic 5-year survey of the organic soil subsidence lines was made in June, 1963. The graphs incorporated in Figures 1 through 11 show the organic soil loss for the period of record for each of these lines.

Considerable work was done on the project toward getting the irrigation and drainage facilities modified to improve the water control system. After installing the recirculating pump at the east end of the test it was found that the rock elevation in the drainage ditches leading to the pump were too high to permit sufficient water flow to the pump for efficient operation. This necessitated moving the pump to another location on the west side of the test. If it is found necessary, a smaller pump may be installed at the east for better drainage. Contours on rock surface of the water table plots are shown in Figure 12.

A recording rain gage and seven water level recorders were installed on the test site to record water levels in the irrigation-drainage ditches and 3 of the 9 water-table plots. Also, piezometers were reinstalled on the water-table plots as originally installed. Continuous water-level data have been recorded from July 26, 1963 to the present. Some piezometer data were obtained in July and August for correlating with the continuous recorded data.

Figure 13 presents graphic data of an irrigation-drainage and rain-fall events occurring on a selected water-table plot from December 11-18, 1963.

Comments and Interpretations:

A test run was made on the water-table plots the first part of December, 1963, to determine the capabilities of the irrigation-drainage system to control the water-table level in the plots. The results obtained on one of the high water-table plots as indicated by continuous water-level recorders are shown in Figure 13. Mean ground surface is approximately 11.5 feet above mean sea level, and the data are plotted using ground surface as a base and expressed as feet below mean ground surface. At the beginning of the irrigation cycle the water-table level in the plot and ditch was 2.0 and 2.1 ft. below ground surface, respectively. Water level in the ditches reached the maximum set by the controls in about 4 hours, and maintained the level between 0.65 and 0.45 ft. below ground surface until the irrigation pump was turned off. Total irrigation period was about 18 hours. Almost immediately the water-table level began to rise in the plot reaching a maximum rate of 0.075-ft. rise per hour, and the maximum water-table level reached at the measuring site was 1.43 ft. below ground surface. In a subsequent test in which the irrigation system was on for nearly 48 hours the maximum water-table level maintained was about 1.2 ft. below ground surface. This appears to be about the maximum that can be maintained under present conditions.

Water-table levels started dropping very soon after the irrigation pump was turned off; and with the drainage pump running, in the low water-table system, the rate of drop of the water table in the high water-table plots reached a maximum of about 0.033 ft. per hour. The water level in the ditches and the plots continued to drop for about 3 days; leveling off at about 2.05 and 1.94 ft. below ground surface, respectively.

One of the most important features brought out in these data concerns the question of seepage through the rock strata underlying the organic soil. The data indicate that considerable seepage occurred in that the plot water—table level dropped O.ll ft. in the seven—hour period it took the water level in the ditch to drop to the same level as the maximum water—table height reached in the plot. Evidently the plot water table dropped about O.lO ft. before the ditch water level was low enough to influence the drainage of the plot unless appreciable drainage occurred above the locus of points at which the pressure in the ground water was equal to atmospheric pressure. It is possible that some of the water moved up into the unsaturated zone above the water table after the sub-irrigation was discontinued.

A slow rain of about 1.06 in. fell during a 48-hour period between noon December 16 and noon December 18. The effect of this rain on the water levels is also shown in Figure 13. The drainage pump was still in operation during this period. The free water-table level in the plot reached within 1.27 ft. of the ground surface and started dropping rapidly after the rain stopped.

Summary:

- l. Water-table levels responded quickly to changes in the irrigation-drainage control system. Under present conditions the maximum water-table level that can be maintained is about 1.2 feet below ground surface.
- 2. Seepage through the rock strata underlying the organic soil appears to be an important factor affecting water-table control.
- 3. A summary statement on organic soil subsidence is made in the last paragraph of Page 14 of this report.

Organic Soil Subsidence

In June of 1963 the periodic 5-year surveys to determine the continuing loss of organic soils in the Everglades were made. One of the lines at the Everglades Experiment Station was abandoned due to the installation of buildings and rock fill that had been placed over a large portion of the area traversed by the survey line.

The graphs incorporated in Figures 1 through 11 show the organic soil loss for the period of record for each of these lines. An examination of the charts shows that the loss-in-elevation rate has remained fairly constant with variations due to periods of drought or flood. There is a slight acceleration of loss between 1958 and 1963. This is to be expected since water tables were abnormally low for most of this period, and the rate of subsidence is directly proportional to depth of water table.

In Figure 6 the accelerated rate after 1958 does not present the data accurately. It will be noted that an extension from the 1953 to the 1963 elevation points would be more in line with the normal rate to be expected. The 1958 surveys were checked, and it was found that the area traversed by this line had been plowed and disked just prior to the survey. Due to the flocculent nature of organic soil when cultivated it is felt that the elevations taken in 1958 were in error and that normal subsidence had occurred.

The apparent leveling off of subsidence indicated by Figure 1 is due to the fact that this line parallels the Bolles Canal. Water tables in this area are maintained almost at ground surface, and very little subsidence could be expected.

Land use histories for each of the subsidence lines with geographic locations follow.

Figure 1 - Section 36, TLLS, R36E - Okeslanta peaty muck with gravity drainage prior to 1942; sporadic plantings of truck crops prior to 1953 at which time the entire area was converted to pasture. Years of observation: 1913-1963; total peat lost: 7.57 ft.; mean annual loss: .1519 ft/yr.

Figure 2 - Section 13, Thus, R36E - Okselanta peaty muck with gravity drainage until 1927; generally planted to sugarcane and truck crops after pumps were installed in 1927. Years of observation: 1914-1963; total peat lost: 5.88 ft.; mean annual loss: .1346 ft/yr.

Figure 3 - Section 3, This, R37E - Everglades peat having had initial subsidence under controlled drainage; planted to truck crops during years of observation: 1934-1963; total peat lost: 2.43 ft.; mean annual loss: .0853 ft/yr.

Figure 4 - Section 3, TL4S, R37E - Everglades peat covered with St. Augustine grass 14 years before and during years of observation: 1938-1963; total peat lost: 1.90 ft.; mean annual loss: .0755 ft/yr.

Figure 5 - Section 30, TL2S, R3LE - Everglades peaty muck having had initial subsidence prior to the years of observation; planted to sugar cane during the years of observation: 1935-1963; total peat lost: 2.10 ft.; mean annual loss: .0746 ft/yr.

Figure 6 - Section 10, Thus, R37E - Everglades peat with virgin growth (sawgrass and elders) until 1950; planted to field crops after 1950; poor drainage prior to development; converted to pasture about 1959; years of observation: 1932-1963; total peat lost: 2.82 ft.; mean annual loss: .0905 ft/yr.

Figure 7 - Section 10, TLLS, R37E - Everglades peat with virgin growth until 1944; planted to field and truck crops through years of observation: 1938-1963; total peat lost: 2.74 ft.; mean annual loss: .1089 ft/yr.

Figure 8 - Section 8, TLLS, R38E - Everglades peat in virgin saw-grass until 1938; in cultivation until about 1941 when it was converted into pasture; converted into field crops 1962; years of observation: 1938-1963; total peat lost: 2.40 ft.; mean annual loss: .0973 ft/yr.

Figure 9 - Section 5, Thus, R38E - Everglades peat in virgin saw-grass until 1937; intensively cultivated for truck crops through 1950 when it was converted to pasture; years of observation: 1938-1963; total peat lost: 1.65 ft.; mean annual loss: .0669 ft/yr.

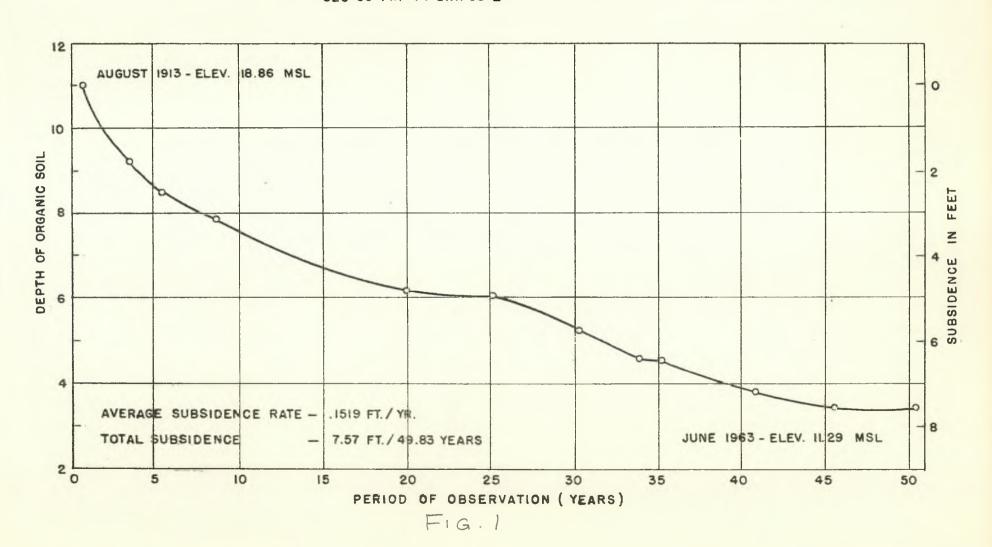
Figure 10 - Section 8, TLAS, R38E - Everglades peat in virgin sawgrass until 1938; in cultivation until about 1941 when it was converted to pasture; years of observation: 1938-1963; total peat lost: 2.22 ft.; mean annual loss: .0900 ft/yr.

Figure 11 - Section 8, Thus, R38E - Everglades peat in virgin saw-grass with moderate drainage until 1937; truck crops through 1946; converted to pasture in 1947; years of observation: 1938-1963; total peat lost: 1.96 ft.; mean annual loss: .0794 ft/yr.

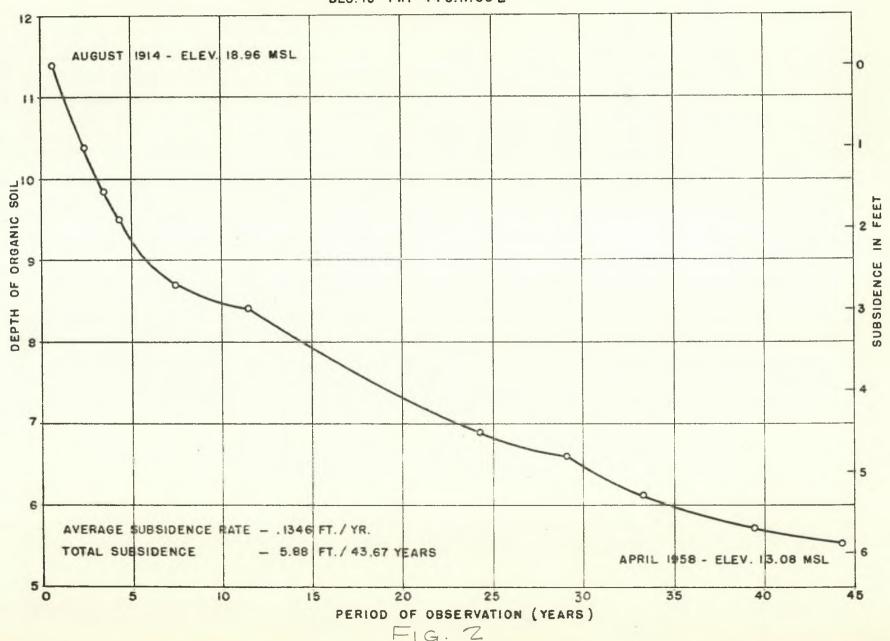
Average loss over total area represented by subsidence lines: .0959 ft/yr.

This loss of .10 ft. per year for the 50 years since drainage began would indicate a loss of 5 ft. of organic soil over the entire Everglades—some 5,500,000 acres. This change in topography over such a vast area has a tremendous effect on water yields, rates of runoff, soil storage, and other watershed characteristics. During the next year an additional experimental outline will be written to incorporate these data into a study for evaluating subsidence in terms of watershed engineering research.

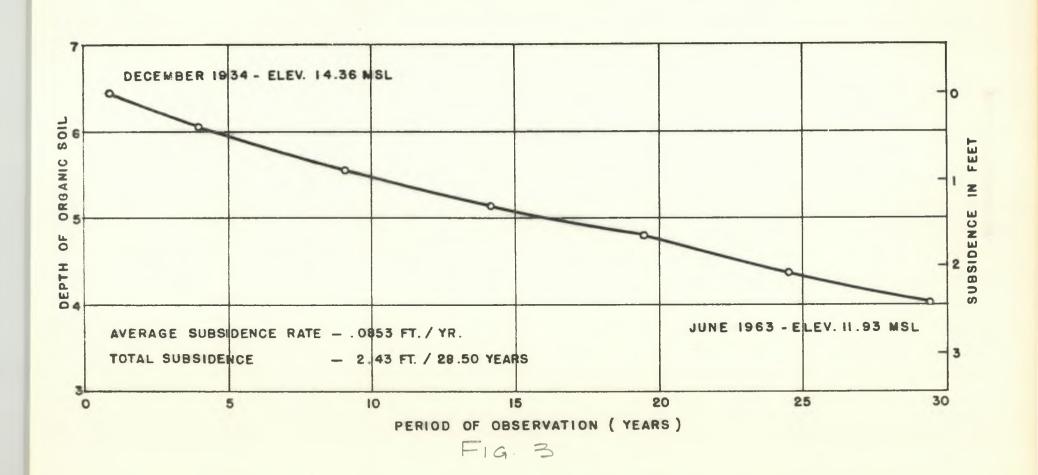
LINE 280' NORTH OF BOLLES CANAL AT OKEELANTA SEC 36 TWP 44 S.R. 36 E



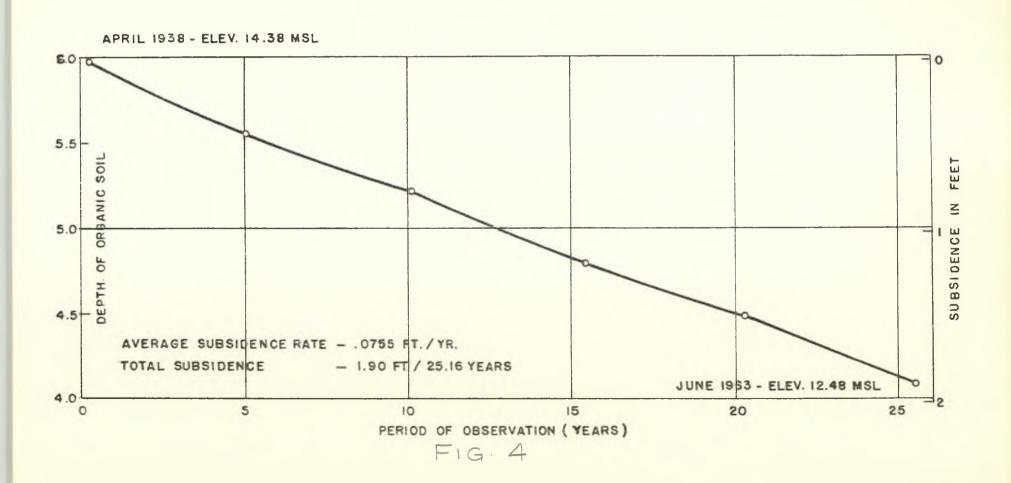
LINE BELOW SOUTH BAY LOCKS NEAR I MILE POST ON NORTH NEW RIVER CANAL SEC. 13 TWP 44 S.R. 36 E



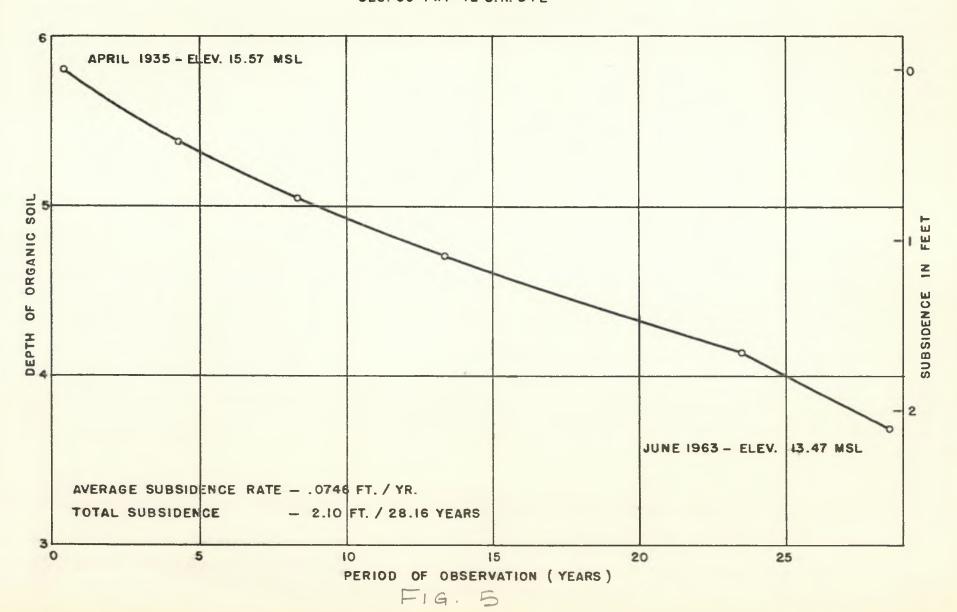
EAST LINE AT EXPERIMENT STATION
STA. 0+00 TO II+00 = SEC. 3 T 44 S.R. 37 E



LINE ON LAWN AT EXPERIMENT STA. - 95 FT WEST OF FRONT END OF PORCHES OF RESIDENCES STA. 1+75 TO 6+25 - SEC. 3 T. 44 S.R. 37 E.

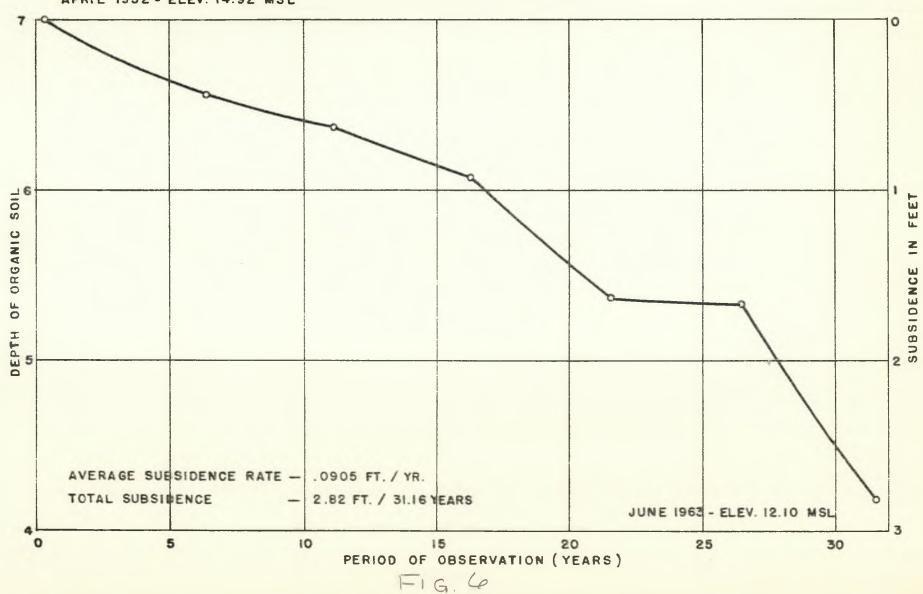


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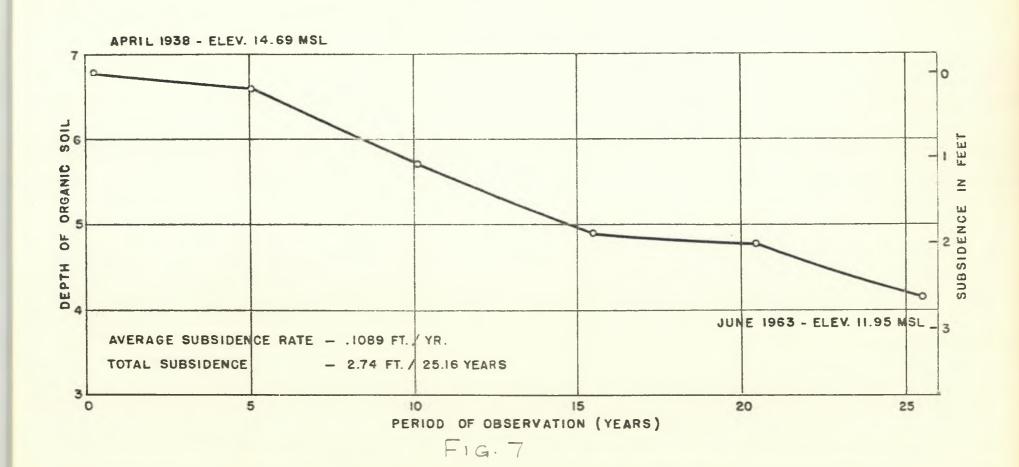


SUBSIDENCE OF ORGANIC SOILS WELL LINE "A" - REACH "A" - STA. 27+50 - 52+00 AT EXPERIMENT STATION SEC. 10 TWP 44 S.R. 37 E

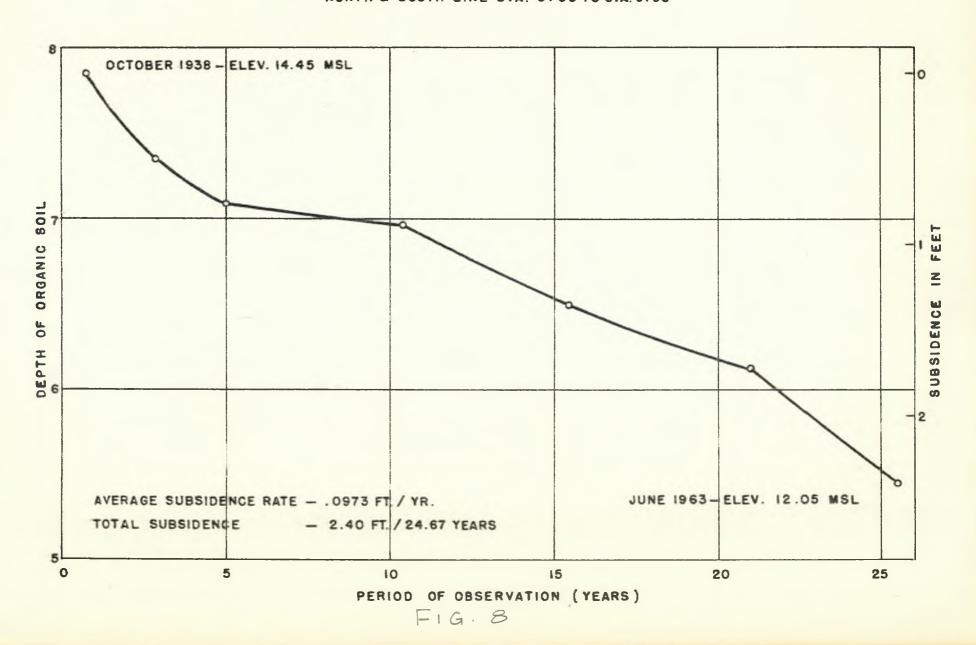
APRIL 1932 - ELEV. 14.92 MSL



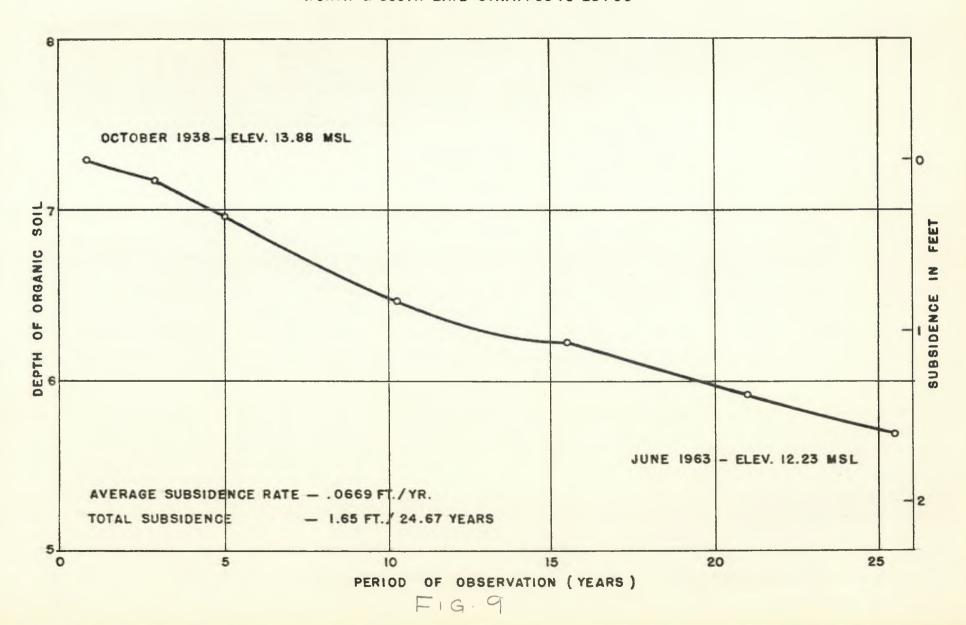
WELL LINE "A"- REACH "B"- STA. 0+00-27+00 AT EXPERIMENT STATION SEC. 10 TWP 44 S.R. 37 E



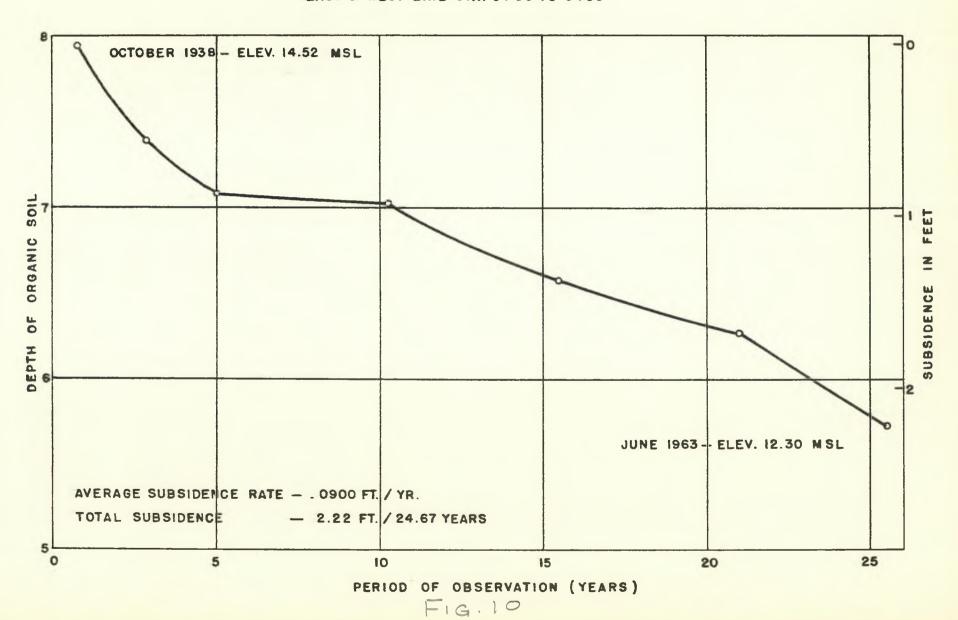
SEC. 5 & 8 T 44 S.R. 38E (WEDGEWORTH - RAOUL FARMS)
NORTH & SOUTH LINE STA. 0+00 TO STA. 9+90



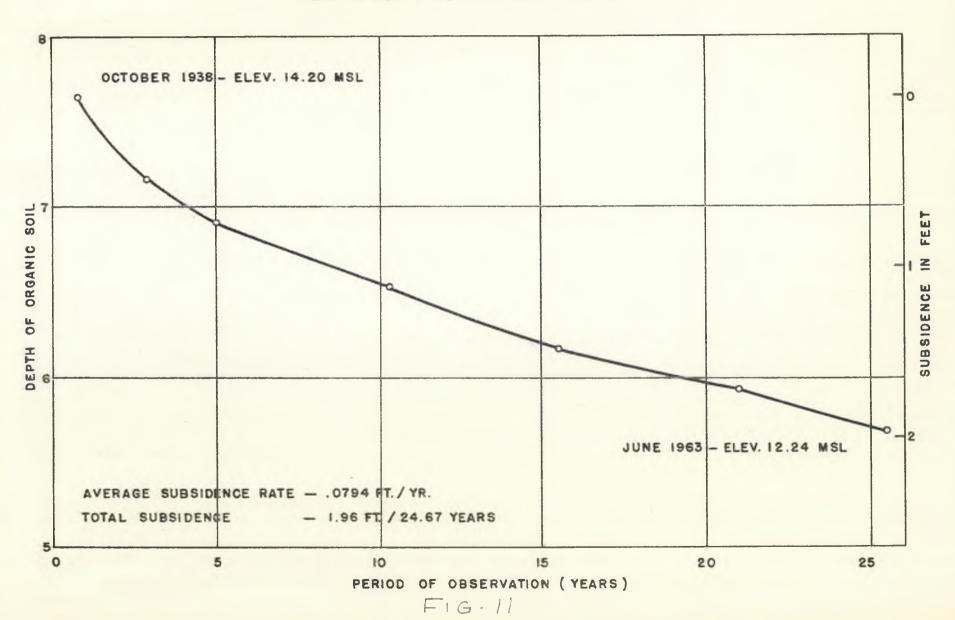
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NORTH & SOUTH LINE STA. II+00 TO 20+00

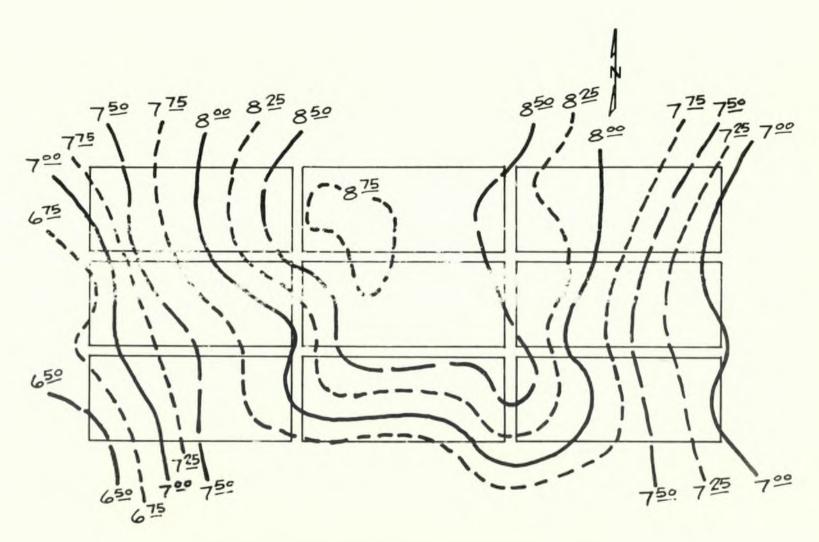


SEC. 5 & 8 T 44 S.R.38 E. (WEDGEWORTH - RAOUL FARMS)
EAST & WEST LINE STA. 0+00 TO 9+50



SEC. 5 & 8 T 44 S.R. 38 E (WEDGEWORTH - RAOUL FARMS)
EAST & WEST LINE STA. 10+50 TO 23+00





CONTOURS ON ROCK SURFACE (MSL)
WATER TABLE PLOTS
EES

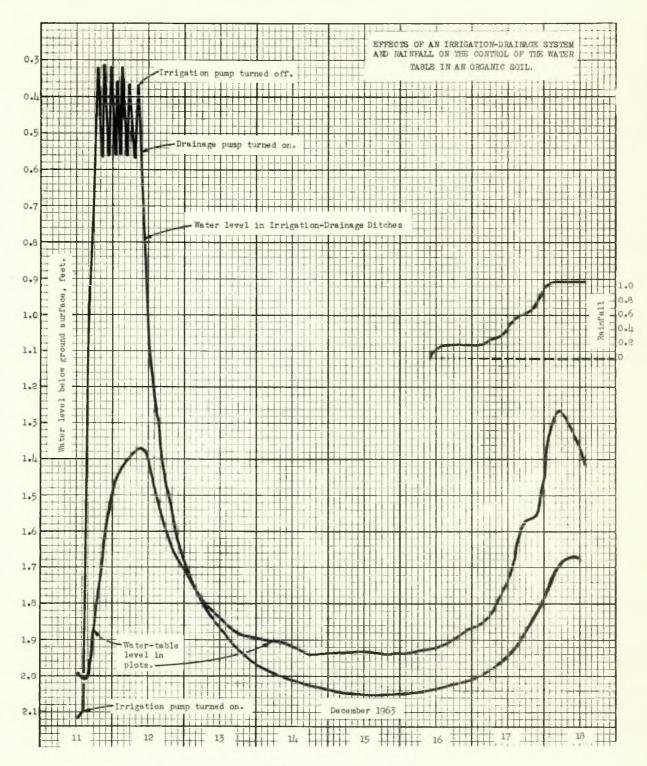


Fig. 13

COLLECTION OF BASIC AGRI-HYDROLOGIC DATA IN CENTRAL AND SOUTHERN FLORIDA

Line Project No.: SWC 2-bl, 2-b2, 2-b4 Code No.: FLA PL-3

Prepared by: W. H. Speir

Location of Experiment: Central and southern Florida, headquarters at Fort Lauderdale, Fla.

Personnel Involved:

ARS - W. H. Speir, J. E. Browning, J. H. Howerton, Jr., F. E. Cherry and W. R. Moore

Fla. Agr. Exp. Sta. - F. H. Thomas, F. T. Boyd Central & So. Fla. Flood Control Dist. - J. P. Clawson, R. L. Taylor

Date of Initiation: January 15, 1950

Expected Duration: Continuing

Objectives:

To systematically measure, record and preserve basic hydrologic data in a form suitable for various analyses in approved agricultural investigations in central and southern Florida.

Need for Study: See 1961 Annual Report.

Design and Procedure: See 1961 Annual Report.

Experimental Data and Observations:

The collection of basic hydrologic data was continued in cooperation with the Florida Agricultural Experiment Station, the Central and Southern Florida Flood Control District, the U.S. Geological Survey, and other agencies.

Monthly hydrologic data for Plantation Field Laboratory, the Everglades Experiment Station, Indian River Farms Drainage District (Fla W-1) Upper Taylor Creek (Fla W-2), Upper Taylor Creek (Fla W-3) and Monreve Ranch (Fla W-4) are shown in Tables 1, 2, 3, 4, 5, and 6, respectively. Data for Plantation Field Laboratory and the Everglades Experiment Station are shown for the calendar year, while the watershed data is based on the water year as established by the U.S. Geological Survey.

Elevations of groundwater at weekly readings are given for well lines "A" and "B" in Table 7.

All data have been tabulated on a daily basis and are included as an appendix to this report.

Comments and Interpretations:

The purpose of this outline is to measure, record, present, and

preserve basic data in a form suitable for use by the Agricultural Research Service and Cooperators. The use of this data in specific investigations is presented under separate research outlines within this report.

Summary:

The collection of basic hydrologic data continued at six sites over central and southern Florida. Two additional water stage recorders were installed on Well Lines "A" and "B" for continuous records on ground water movement near the main watercourse in the Upper Taylor Creek Watersheds W-2 and W-3. Monthly tabulations of hydrologic data are shown for each observation site. Watershed tabulations are made on a water year basis, while other sites are tabulated by calendar years.

TABLE 1
MONTHLY HYDROLOGIC DATA
PLANTATION FIELD LABORATORY
FORT LAUDERDALE, FLA.

| DATE | EVAP | RAIN | WIND | MN TEMP | SUNLICHT | | PEAK RA | AINFALL | |
|-------|-------|-------|------------|----------------|----------|--------|---------|---------|-------|
| 1963 | (IN) | (IN) | (MN.MILES) | ٥ _F | MN.HOURS | 24 HRS | DATE | 48 HRS | DATE |
| JAN | 3.62 | 1.29 | 42.7 | 65•7 | 4.8 | 0.28 | 16 | 0.30 | 16-17 |
| FEB | 3.66 | 5.09 | 47.8 | 64.7 | 5•3 | 2.97 | 13 | 3.03 | 12-13 |
| MAR | 6.90 | 0.19 | 55•2 | 72.3 | 7.4 | 0.15 | 30 | 0.15 | 30 |
| APR | 7.88 | 0.81 | 60.5 | 72.7 | 7•9 | 0.64 | 8 | 0.64 | 8 |
| MAY | 7•55 | 6.51 | 36.4 | 76.0 | 7•7 | 2.67 | 4 | 4.07 | 3-4 |
| JUNE | 7.00 | 7.15 | 25.8 | 80.0 | 7.2 | 1.56 | 11 | 1.61 | 11-12 |
| JULY | 8.38 | 3.20 | 31.3 | 82.7 | 9.1 | 0.85 | 5 | 0.90 | 5-6 |
| AUG | 7.12 | 4.61 | 28.9 | 82.7 | 8.3 | 1.43 | 20 | 2.45 | 20-21 |
| SEPT | 5.52 | 10.68 | 19.2 | 81.3 | 5.2 | 1.69 | 20 | 2.61 | 20-21 |
| OCT | 6.16 | 7.76 | 24.0 | 75.4 | 6.4 | 3.62 | 3 | 3.91 | 3-4 |
| NOV | 4.71 | 1.30 | 24.2 | 70.5 | 6.0 | 0.55 | 6 | 0.60 | 10-11 |
| DEC | 3.13 | 4.30 | 15.4 | 61.2 | 6.7 | 3.30 | 31 | 3.30 | 31 |
| | | | | | | | | | |
| TOTAL | 71.63 | 52.89 | 34.3 | 73.8 | 6.8 | - | - | - | - |

REMARKS:

TABLE 2
MONTHLY HYDROLOGIC DATA
EVERCLADES EXPERIMENT STATION
BELLE GLADE, FLA.

| DATE | PAN EVAP | ORATION | TAN K | EVAP | RA IN | WIND | MN TEMP | | PEAK F | MINFALL | |
|-------|---------------|---------|-------|-------|-------|--------------|--------------|--------|----------------------|---------------|--------------|
| 1963 | P2 | Р3 | Т7 | T8 | (IN) | MN. MILES | oF | 24 HRS | 24 HRS DATE 48 HRS I | | |
| | | | | _ | | | | | | | |
| JAN | 3.26 | 3 • 37 | 3.01 | 3.06 | 0.98 | 66.6 | 63.2 | 0.35 | 27 | 0.46 | 21-22 |
| FEB | 3 .2 6 | 3 • 37 | 3.41 | 3.27 | 3.49 | 86.4 | 61.4 | 0.79 | 13 | 1.07 | 12-13 |
| MAR | 5.94 | 5.94 | 5.00 | 5.04 | 0.42 | 68.2 | 69.1 | 0.12 | 7 | 0.22 | 7 - 8 |
| APR | 6.99 | 7.29 | 6.11 | 6.08 | 0.28 | 73•3 | 70.5 | 0.25 | 7 | 0.25 | 7 |
| MAY | 6.49 | 6.31 | 5.42 | 5.68 | 7.06 | 47.1 | 74.5 | 3.66 | 4 | 3 . 81 | 3-4 |
| JUNE | 6.58 | 6.83 | 5.89 | 5.62 | 11.59 | 37.1 | 78.8 | 2.60 | 29 | 3.80 | 28-29 |
| JULY | 6.83 | | 6.11 | 6.20 | 1.78 | 34.5 | 80.9 | 0.81 | 31 | 0.84 | 30-31 |
| AUG | 6.50 | DI | 5.82 | 5.77 | 4.95 | 33.4 | 81.1 | 1.10 | 19 | 1.83 | 19-20 |
| SEPT | 5.09 | SCON | 4.90 | 4.60 | 9.27 | 36.c | 79•9 | 2.04 | 23 | 2.09 | 22-23 |
| OCT | 5•35 | TI N | 5.16 | 5.26 | 1.60 | 69.6 | 73•7 | 0.58 | 3 | 0.64 | 2-3 |
| NOV | 3.86 | JED | 3.21 | 3•53 | 2.79 | 58 .2 | 67.2 | 1.78 | 11 | 2.36 | 11-12 |
| DEC | 3.15 | | 3.03 | 3.07 | 5.66 | 64.3 | 58 .8 | 4.14 | 31 | 4.44 | 31 |
| TOTAL | 63.30 | - | 57.07 | 57.18 | 49.87 | 56.2 | - | - | | _ | _ |

REMARKS:

TABLE 3 MONTHLY HYDROLOGIC DATA INDIAN RIVER FARMS DRAINAGE DIST. FLA WI INDIAN RIVER COUNTY, FLA.

| DATE | PAN EVAP | RAINFALL | RUNOFF | | PEAK R | AINFALL | | | PEAK I | RUNOFF | |
|-------|----------------|----------|--------|----------------------|--------|---------|-----------------------------|----------|--|--------|------|
| 1962 | (IN) | (IN) | (IN) | 2l ₄ firs | DATE | 48 HRS | DATE | 2L1 H.RS | DATE | 48 HRS | DATE |
| OCT | 6.97 | 0.49 | * | 0.20 | 13 | 0.21 | 12-13 | | | | |
| NOV | 5.60 | 3.14 | | 1.90 | 9 | 2.77 | 8 - 9 | P | | | |
| DEC | 3•58 | 0.48 | | 0.20 | 21, | 0.40 | 2L ₊ - 25 | 0 | À | | |
| 1963 | | | | | | | | | ٠ - کــــــــــــــــــــــــــــــــــــ | | |
| JAN | 4.10 | 0.82 | | 0.25 | 26 | 0.27 | 26-27 | | · · · · · · · · · · · · · · · · · · · | | |
| FEB | 4 . 1 5 | 5.00 | | 1.35 | 26 | 1.35 | 26 | | A. | | |
| MAR | 6.07 | 1.99 | | 0.79 | 30 | 0.99 | 29-30 | | 7 | 0 | |
| APR | 7 •7 3 | 0.62 | | 0.514 | 30 | 0.44 | 30 | | | 7 | |
| MAY | 7.58 | 3.34 | | 0.94 | 30 | 1.38 | 29-30 | | | 0 | |
| JUNE | 7•59 | 6.09 | | 0.71 | 1/1 | 1.22 | 26-27 | | | 1 | |
| JULY | 7.92 | 14.140 | | 1.41 | 11 | 2با. 1 | 11-12 | | | | |
| AUG | 8.58 | 4.56 | | 0.90 | 18 | 1.22 | 18-19 | | | | |
| SEPT | 6.81 | 16.22 | | 6.41 | 21, | 7.26 | 23-24 | | | | |
| TOTAL | 76.68 | 47.15 | | - | - | - | - | | | | |

REMARKS: *Provisional data only.

TABLE 14 MONTHLY HYDROLOGIC DATA UPPER TAYLOR CREEK, TOTAL AREA FLA W2 OKEE CHOBEE COUNTY, FLA.

| | | | | | | | | | | | <u></u> | | |
|-------|-------|--------------------|--------|----------------------|---------------|--------|---------|--------|--------------|--------|---------|--------|------------------|
| DATE | EVAP | RA IN | RUNOFF | MEAN TEMP | W.T.* | | PEAK RA | INFALL | | | PEAK F | RUNOFF | |
| 1962 | (IN) | (IN) | (IN) | \circ_{F} | (FT) | 24 HRS | DATE | 48 HRS | DA TE | 24 HRS | DATE | 48 HRS | DATE |
| OCT | 4.88 | 1.21 | 0.58 | 77.0 | 2,22 | 0.53 | 3 | 0.54 | 3 - 4 | •064 | 5 | •120 | 5 - 6 |
| NOV | 3.39 | 2.31 | 0.13 | 65.8 | 2.55 | 1.16 | 9 | 2.18 | 8=9 | .011 | 11 | .021 | 11-12 |
| DEC | 2.75 | 0.36 | 0.09 | 60.2 | 3.12 | 0.12 | 24 | 0.12 | 21, | •004 | 12 | .007 | 12-13 |
| 1963 | | | | | | | | | | | | | |
| JAN | 2.80 | 0.85 | 0.08 | 62.5 | 3.50 | 0.30 | 21 | 0.30 | 21 | .004 | 22 | •008 | 22-23 |
| FEB | 3.52 | 4.20 | 0.29 | 61.5 | 3.02 | 1.73 | 26 | 1.73 | 26 | •075 | 28 | .1/43 | 27 - 28 |
| MAR | 5•77 | 1.10 | 0.19 | 71.0 | 2.54 | 0.22 | 30 | 0.22 | 30 | .049 | 1 | .068 | 1-2 |
| APR | 7.23 | 0.75 | 0.03 | 72.8 | 3.94 | 0.50 | 25 | 0.50 | 25 | .001 | 26 | •002 | 26-27 |
| MAY | 7.23 | 4•75 | 0.03 | 78.9 | 4.10 | 1.31. | 3 | 1.34 | 3 | .001 | 4 | .002 | 4 |
| JUNE | 6.148 | 5 • 1414 | 0.13 | 82.0 | 3.26 | 0.91 | 4 | 1.51 | 4-5 | .007 | 7 | .014 | 7 - 8 |
| JULY | 6.78 | 3.12 | 0.09 | 83.14 | 3•37 | 0.65 | 17 | 1.23 | 16-17 | .007 | 1 | .012 | 1-2 |
| AUG | 6.98 | 3.l ₁ B | 0.03 | 83.3 | 4.10 | 0.96 | 20 | 1.18 | 19-20 | .002 | 22 | .001. | 22-23 |
| SEPT | 5.17 | 7•36 | 0.36 | 81.9 | 3 .3 8 | 1.17 | 23 | 2.32 | 23-24 | .056 | 29 | .112 | 29-30 |
| TOTAL | 62.98 | 34.93 | 2.03 | 73•4 | 3.26 | | - | - | _ | - | | - | _ |

^{*} MEAN WATER TABLE DEPTH BELOW GROUND SURFACE REMARKS:

TABLE 5 MONTHLY HYDROLOGIC DATA UPPER TAYLOR CREEK, SUB AREA FLA W3 OKEECHOBEE COUNTY, FLA.

| DATE | EVAP | RA IN | RUNOFF | MEAN TEMP | ₩.T.* | | PEAK RA | INFALL | | | PEAK R | JNOFF | |
|-------|---------------|---------|--------|-------------------|-------|--------|---------|--------|----------------|--------|--------|--------|----------------|
| 1962 | (IN) | (IM) | (IN) | oF | (FT) | 24 HRS | DATE | 48 HRS | DATE | 24 HRS | DATE | 48 HRS | DATE |
| OCT | 4.88 | 1.05 | 0.46 | 77.0 | 1.75 | 0.71 | 1 | 0.71 | 1 | •159 | 14 | .2145 | 3 - 4 |
| NOA | 3 •3 9 | 2.99 | 0.13 | 65.8 | 1.79 | 1.60 | 9 | 2.6/4 | 8-9 | .026 | 10 | •050 | 9-10 |
| DEC | 2.75 | 0.35 | 0.03 | 60.2 | 2.31 | 0.18 | 24 | 0.18 | 24 | .001 | - | .002 | _ |
| 1963 | | | | | | | | | | | | | |
| JAN | 2.80 | 0.81 | .02 | 62.5 | 2.63 | 0.23 | 7 | 0.26 | 1/1-15 | .001 | - | .002 | - |
| FEB | 3 .52 | 4.17 | .12 | 61.5 | 2.23 | 1.73 | 26 | 1.73 | 26 | •038 | 27 | .060 | 27 -2 8 |
| MAR | 5 •7 7 | 1.30 | •13 | 71.0 | 1.94 | 0.41 | 30 | 0.41 | 30 | .017 | 1 | .031 | 1-2 |
| APR | 7.23 | 0.80 | .01 | 72.8 | 3.31 | 0.16 | 25 | 0.46 | 25 | .001 | 1 | •002 | 1-2 |
| MAY | 7.23 | 5.65 | .01 | 78.9 | 3.45 | 1.48 | 25 | 1.52 | 25-26 | .0014 | 27 | .007 | 26-27 |
| JUNE | 6.48 | 5•93 | .15 | 82.0 | 2.25 | 0.87 | 28 | 1.67 | 27 -2 8 | .008 | 30 | .01/1 | 29-30 |
| JULY | 6.78 | 5.08 | .16 | 83.4 | 1.98 | 1.50 | 17 | 1.76 | 17-18 | .018 | 19 | .032 | 18-19 |
| AUG | 6.98 | 1.84 | .02 | 83.3 | 3.06 | 0.62 | 20 | 0.89 | 19-20 | •003 | 1 | .005 | 1-2 |
| SEPT | 5•17 | 8.62 | •93 | 81.9 | 2.61 | 1.74 | 14 | 3.10 | 23-24 | .250 | 25 | •500 | 25-26 |
| TOTAL | 62.98 | 38 • 59 | 2.17 | 73.l ₊ | 2.14 | - | _ | _ | - | - | | - | - |

^{*} MEAN WATER TABLE DEPTH BELOW GROUND SURFACE REMARKS:

TABLE 6 MONTHLY HYDROLOGIC DATA MONREVE RANCH FLA WL MARTIN COUNTY, FLA.

| DATE | EVAP | R A IN | RUNOFF | IRRI- GATION | PEAK RAINFALL | | | | PEAK RUNOFF | | | | |
|-------|---------------|---------------|--------|-----------------|---------------|-------|----------------|----------------|-------------|------|--------|--------------|--|
| 1962 | (IN) | (IN) | (IN) | (IN) | 24 HRS | DA TE | 48 HR S | DA TE | 24 HRS | DATE | 48 HRS | DATE | |
| OCT | 4.09 | 0.26 | •93 | .22 | 0.09 | 13 | 0.11 | 13-1/4 | .117 | 1 | .222 | 1-2 | |
| NCV | 2•78 | 0.68 | .20 | •56 | 0.21 | 21 | 0.28 | 8 - 9 | .020 | 24 | •033 | 27-28 | |
| DEC | 2.34 | 0.27 | •51 | 1.72 | 0.22 | 24 | 0.22 | 24 | .027 | 11 | . 054 | 11-12 | |
| 1963 | | | | | | | | | | | | | |
| JAN | 2.93 | 1.06 | .18 | •72 | 0.72 | 21 | 0.72 | 21 | .010 | 15 | .019 | 15-16 | |
| FEB | 3.70 | 3.84 | •18 | - | 1.11 | 26 | 1.11 | 26 | .007 | 26 | .014 | 26-27 | |
| MAR | 5.18 | 0.98 | •29 | 1.02 | 0.37 | 9 | 0.37 | 9 | .019 | 21 | •036 | 21-22 | |
| APR | 5 •7 5 | 0.77 | •29 | 2.02 | 0.77 | 25 | 0.77 | 25 | .019 | 7 | .033 | 19-20 | |
| MAY | 5.90 | 5 • 34 | -40 | .70 | 2.12 | 3 | 2.12 | 3 | .086 | 3 | .154 | 3 - 4 | |
| JUNE | 6.14 | 4.42 | •29 | .18 | 0.96 | 25 | 1.63 | 25 - 26 | .037 | 29 | .066 | 28-29 | |
| JULY | 6.78 | 3.72 | -1/↓ | •53 | 1.21 | 6 | 1.21 | 6 | .012 | 6 | .019 | 6-7 | |
| AUG | 5•77 | 4.02 | .19 | .24 | 1.07 | 16 | 1.09 | 15-16 | •033 | 22 | .063 | 21-22 | |
| SEPT | 5.01 | 7.91 | •62 | - | 1.55 | 11 | 2.05 | 11-12 | .117 | 25 | .210 | 25-26 | |
| TOTAL | 56.37 | 33.27 | 4.22 | 7.91 | _ | - | - | _ | - | - | - | _ | |

REMARKS:

Table 7. Water Table Elevations - Well Lines "A" and "B", Upper Taylor Creek Watershed, Okeechobee County, Florida, Water Year 1962-1963

| Well No. | Al | A 2 | A 3 | MI | A 5 | A 6 | | Bl | В2 | В3 | ВЦ | B5 | в6 |
|--|--|--|--|--|--|---|------|--|--|---|--|--|--|
| Ground Eleva. at Well site (Ft. MSL) | stream | 38.8 | 39•1 | 40.3 | 42.0 | 45.0 | 1 | stream | 24.4 | 24.3 | 25.2 | 25.8 | 32.8 |
| Horz. Dist. from stream (Ft.) | 0 | 10 | 38 | 104 | 535 | 2000 | | 0 | 10 | 38 | 104 | 535 | 2000 |
| Date | | | | | (Wate | er Table | Elev | Ft. | MSL) | | | | |
| 10/1/62 8 15 22 29 11/5 12 19 26 12/3 10 17 23 30 1/7/63 14 21 28 2/4 11 18 25 3/4 11 18 25 3/4 11 18 25 3/1 11 18 27 27 27 27 27 27 27 27 27 27 | 29 22 23 36 20 2 36 2 36 | 76.74,36.22 76.74,36.22 76.74,36.22 76.74,36.22 76.04,04 76.05,04 76.0 | 37.120 37.120 37.120 36.54439 36.683 36.691 36.691 37.692 37.693 36.791 37.693 | 38.03 38.03 37.43 37.42 37 | 40.21 40 | 43.73.43.08.88.65.59.41.4.41.4.41.4.4.4.4.4.4.4.4.4.4.4.4.4 | | 25.25.25.25.25.25.25.25.25.25.25.25.25.2 | 25.23.39 23.39 23.39 23.39 23.38 23.36 23. | 25.15 23.70 23.02 23.02 23.03 23.04 23.05 23.04 23.05 23.04 23.05 25.05 | 25.30 25.44 23.43 23.60 22.83 23.59 23.59 23.59 23.59 23.59 23.59 23.69 24.50 25.69 24.60 25.69 24.60 25.69 24.60 25.69 24.60 26.62 26.62 27.68 28.62 28.62 28.62 28.63 28.64 28.63 28 | 25.40 25.60 23.40 23.13 22.97 22.82 23.39 23.49 23.49 23.49 23.49 23.49 23.49 23.49 23.49 23.49 23.49 23.49 23.49 23.49 23.49 24.97 24.98 24.99 24 | 30.69 30.47 30.07 29.74 29.52 29.30 29.30 29.30 29.30 29.30 29.30 28.86 28.59 28.86 28.97 28.96 28.97 28.96 29.26 29.26 29.30 29.30 29.30 29.30 28.86 28.97 28.86 28.97 28.96 29.26 29.26 29.26 29.26 29.26 29.26 29.26 29.38 29.38 |

THE INFLUENCE OF EVAPORATION, TRANSPIRATION, AND WATER LEVELS ON WATERSHED RETENTION AND STREAMFLOW

Line Project No.: SWC 2-bl, 2-b4

Code No.: FLA. PL-4

Prepared by: W. C. Mills and W. H. Speir

Location of Experiment: Central and south Florida

Personnel Involved:

ARS - Wm. C. Mills, J. C. Stephens, W. H. Speir, E. H. Stewart

Fla. Agr. Exp. Sta. - Open

Central & So. Fla. Flood Control Dist. - J. P. Clawson, R. L. Taylor

Date of Initiation: May 18, 1959

Expected Duration: 5 years

Objectives:

To develop techniques for separation of the evaporation losses between water, soil and plant surfaces.

To test methods used in computing the water budget.

To relate climatic factors with consumptive use and water yields on a watershed basis.

To seek the contribution of condensation to water yields.

Need for Study: See 1961 Annual Report

Procedure: See 1961 Annual Report for overall procedure. The following additional procedure applies to 1963 studies.

Methods for estimating watershed evapotranspiration developed from data collected on experimental watersheds are checked for application to other watersheds in Florida by computing water budgets and comparing computed runoff to measured runoff for those basins.

Experimental Data and Observations:

Table 1 shows monthly water budget computations for Joshua Creek Watershed covering the period from October 1955 through September 1961.

Comments and Interpretations:

Checking the Water-Use Curve

A water-use curve has previously been developed to compute monthly water use (evapotranspiration) for typical Coastal Plain watersheds in central and southern Florida where pan evaporation and monthly rainfall amounts are known. The curve, methods of development, and instructions for use are explained in detail in the 1960 Annual Report.

To determine the magnitude of error inherent in such a generalized relation and consequently its usefulness, the water budget for water years 1956 through 1960 was computed for Taylor Creek Watershed using the curve to estimate evapotranspiration. (These calculations are presented in the 1960 Annual Report.) A deviation of computed runoff from measured runoff of only 1.54 inches for the five-year period indicates that the method is generally valid. However, since the water-use curve was developed from data collected on Taylor Creek it could not be certain that this curve would apply to other watersheds in central and southern Florida without further verification.

It was desired to check the validity of the water-use curve for another typical watershed in central or southern Florida by using the curve in computing the water budget of that watershed. Joshua Creek Watershed, which is located in the southwestern section of peninsular Florida, was chosen for this check.

The 6-year period from October 1955 through September 1961 was selected for water budget computations since the range of monthly and yearly rainfall and runoff was such that both extremely wet and dry conditions are represented during this time.

Joshua Creek, a tributary of Peace River, extends in a north-east-ward direction from its mouth near Nocatee. The drainage area of this basin above the lowest stream gaging station has been estimated by the U.S. Geological Survey as approximately 115 square miles. The center of Joshua Creek Watershed is located near Latitude 27° 10° N, Longitude 83° 40° W.

Streamflow and rainfall records are necessary in computing the water budget. Streamflow has been measured by the U.S. Geological Survey at Nocatee since 1950 and these records were obtained from U.S.G.S. publications. The only rainfall gaging station in the vicinity of Joshua Creek Watershed is located at Arcadia and rainfall records from this station were acquired from climatological data compiled and published by the U.S. Weather Bureau.

Monthly Class A pan evaporation figures from Taylor Creek were employed in the computation of watershed evapotranspiration for the period June 1956 through September 1961. Pan evaporation records from the University of Florida's Everglades Experiment Station at Belle Glade were used for the period October 1955 to June 1956 since the evaporation pan had not been installed at Taylor Creek at that time.

Computation of the water budget is essentially a straightforward substitution of values into the equation:

$$Q_{c} = P \neq C \neq \Delta S \neq M - ET_{w}$$
, where

 $\mathbf{Q}_{\mathbf{C}}$ is computed watershed runoff in inches;

P is precipitation;

C is rainfall carryover; (when heavy rains occur during the latter part of a month, a portion of recorded rainfall for that month is carried over to the next month)

ΔS is storage change in watershed between beginning and end of month; (determined from the daily discharge vs basin storage curve)

M is soil moisture deficiency; (When the water-use curve indicates an ET_{w} value greater than apparent available water, this term is added and then subtracted for the following month) and

 $\mathrm{ET_{\!w}}$ is water lost from watershed by evaporative process as determined by ratio of $\mathrm{ET_{\!w}/\!E_{\!p}}$. (Figure 1)

Table 1 gives the elements of calculation and computed runoff values for the six water years from October 1955 through September 1961. Also shown are measured runoff values and deviations of computed runoff from measured runoff.

Water-balance calculations for Joshua Creek basin give greater computed than observed runoff for most years considered and show an accumulative deviation of 31.92 inches for the six-year period. This large discrepancy between computed and observed runoff indicates a bias in one or more elements of the water budget. A further study was made in an attempt to determine the cause of this bias.

It was noted, from a closer examination, that the highest deviations usually occurred during the wettest years, and especially during the wetter months. This might suggest that the upper limit ratio of watershed ET to pan evaporation as indicated on the water use curve is too low.

Several consecutive months of high rainfall for Joshua Creek Watershed were selected for further analysis. During these periods the water supply should provide for ETw rates which approach the potential ET. Using measured rainfall and runoff figures, watershed ET rates were obtained by substituting values into the water balance equation. Impossibly high ETw rates were indicated by this method for two of the high rainfall periods. Computed evapotranspiration was 104 percent of pan evaporation for the period May through October of 1959 and 114 percent for the period June through September of 1960. Plainly, these rates are incorrect. The laws of physics do not allow such great rates except perhaps on small isolated plots where both the oasis and clothesline effect may occasionally give these high values. But, obviously, it is impossible to obtain these rates on a large watershed with mixed cover over a period of months.

Although the upper limit ratio of ET_W to pan evaporation indicated by the water-use curve cannot be verified from this observation, it is evident that some error in the data is contributing to a discrepancy in the water balance of Joshua Creek Watershed. An effort was then made to isolate and adjust for incorrect water-budget data:

(1) It was considered that pan evaporation data, which were obtained from Taylor Creek and Belle Glade, might not represent that which would occur in the immediate vicinity of Joshua Creek. However, a check on pan evaporation records at other locations in various directions from Joshua

Creek was made and pan evaporation values for Joshua Creek interpolated from this information were found to be not significantly different from the Taylor Creek and Belle Glade values.

- (2) Since only one raingage is available for rainfall measurements in the Joshua Creek area it might be suspected that records from this gage give an overestimate of basin rainfall. However, this would require a consistent and rather high overcatch and it is extremely doubtful in such terrain that this is the case. We would normally expect discrepancies, but over the 6-year period the plus and minus values should more or less balance.
- (3) Consistently low runoff measurements would cause such an accumulated error as was found. However, as in the case of rainfall, this would be hardly probable.
- (4) An incorrect estimate of watershed area is another possible cause of error. The Joshua Creek drainage area was listed as 115 square miles by U.S. Geological Survey until revised September 30, 1963. The revised figure gives an area of 132 square miles. If this larger area were used in the calculations, however, it would show an even greater bias in the water balance for water years 1956-1961. From topographic maps it can be seen that this additional area in the revised figure has been included because of artificial drainage of adjacent areas into Joshua Creek basin. Evidently, these drainage ditches were only recently constructed and the revised area does not apply to the period October 1955-September 1961.
- (5) The only other apparent explanation of a water balance bias worthy of consideration is that water from Joshua Creek basin spills over into adjacent watersheds at high stages and the total runoff does not pass through the measuring station at Nocatee. This supposition is supported by the fact that the greatest water balance discrepancies appear during months of high rainfall when high water stages are most likely to occur. Also, a closer study of topographic maps of the Joshua Creek area reveals several possible high stage outlets from the watershed.

This suspected occurrence of unmeasured flow from Joshua Creek Watershed was discussed with the U.S. Geological Survey, and they concurred with the conclusion that it is very probable water runs from the watershed at high stages, through outlets other than the one at the Nocatee measuring station.

The conclusion then follows that observed runoff figures for months having very high deviations are in error and these deviations should be removed from consideration in the 6-year net deviation. With the elimination of extreme deviations for months of January 1958, July 1959, July 1960, and September 1960, the accumulated deviation is 15.41 inches. Based on computed runoff, this is a 12-percent difference between computed and observed runoff. In hydrologic studies of this type an error of such magnitude is not uncommon.

From the foregoing analysis, it is evident that application to Joshua Creek Watershed of the water-use curve developed from Taylor Creek has not been verified. However, because of erroneous runoff data, elimination from the water balance calculations of extreme deviations for wet periods seems to be justified. With these extreme values eliminated, the total difference between computed and observed runoff is such that it would be reasonable to place greater confidence in application of the water-use curve to other watersheds in central and south Florida.

Summary:

An attempt was made to verify a previously developed water-use curve (see 1960 Annual Report) for determining U.S. Weather Bureau pan coefficients for Florida watersheds. The water budget of Joshua Creek Watershed was computed for six water years from October 1955 to October 1961, using the water-use curve to estimate monthly ET. Insufficient data on runoff during high rainfall periods hindered a complete check of the method. However, with the elimination of suspected erroneous data a fair comparison of cumulative computed and observed runoff provided some basis for confidence in application of the water-use curve to other watersheds in south Florida.

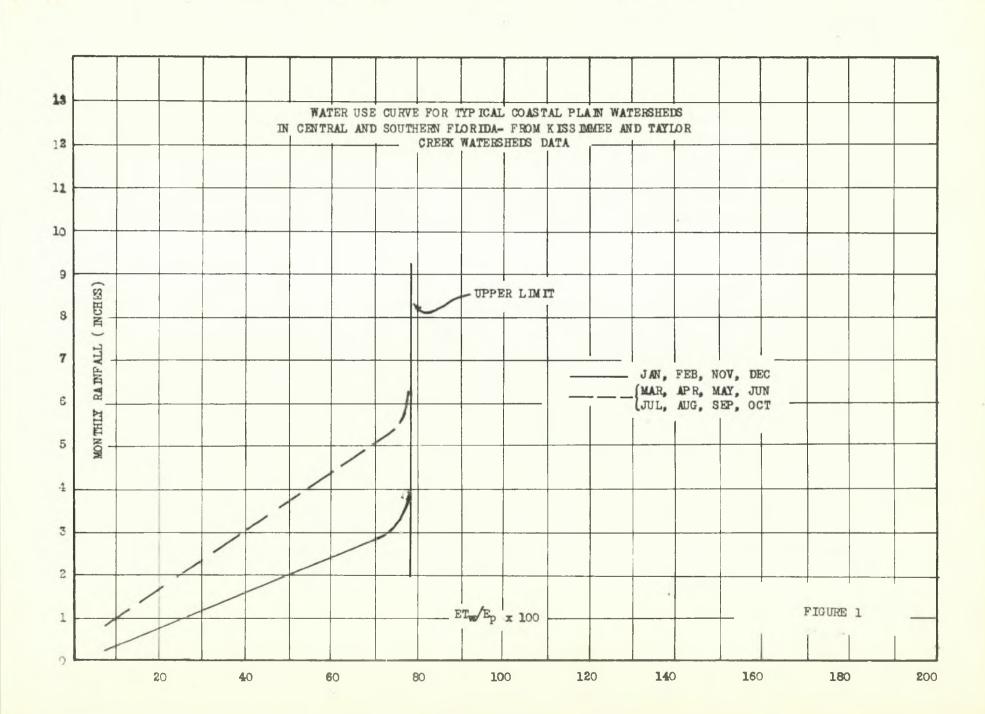


Table 1. Joshum Creek Watershed Water Balance

| Water Year | | Rain- fali carry | | Moist Defic | | ET _m Æρ | Comp. ET _w | Qa | Q _{ob} . | Devia- tion |
|-----------------|------------------------|------------------------|---------------------|----------------|----------------------|---------------------|--------------------------|----------------------------------|-------------------|-------------------------------|
| | (in) | (in) | (in) | (in) | (in) | | (in) | (in) | (in) | (in) |
| 1955-1 | ,66 | | √.16 | | 5.25 | .05 | .26 | .56 | .18 | ≠. 38 |
| Nov. | .31 | | ₹.02 | . 14 | 167 | .10 | .147 | 0 | . OL | - • 04 |
| Dec. | 1 . 440 | | .00 | | 3,00 | . 36 | 1.08 | .18 | .02 | ₹.16 |
| Jan. | 1.22 | | .00 | | 3.71 | +31 | 1.15 | .07 | .02 | ≠.05 03 |
| Feb. Mar. | .26 | | .00 | .12 | 6.48 | .09 | .38 | 0 | -009 | 05 |
| Apr. | 2.96 | .71 | .00 | • 10 | 6.76 | .28 | 1.89 | •58 | .006 | 1.21 |
| Vay | 5.33 | -,- | .00 | | 7.21 | .77 | 5.55 | -49 | .01 | 4.18 |
| June | 2.88 | 1.03 | .00 | | 6.70 | .22 | 1./,7 | •38 | .005 .02 | 7.37 7.94 |
| July Aug. | 5.66 6.06 | .30 | .00 15 | .13 | 7 • 35 7 • 08 | .78 .74 | 5.21, | .96 | .07 | 07 |
| Sept. | 5.20 | -00 | 02 | *1) | 1.97 | .77 | 3.83 | 2.11 | 2.05 | /.06 2.50 |
| Total | 70.07 | | 7.01 | | | | 27.11 | 4.97 | 2,1,7 | 2,50 |
| 1956-9 | 2.09 | | 4.10 | | 4.40 | .26 | 1.1/ | 1.05 | -57 | ¥.48 |
| Nov. | 1.05 | | 7.06 | | 5.40 | .26 | .89 | .22 | •57 •07 | 7.15 7.04 7.47 71.27 |
| Dec. | .65 | | 01 | | 3.28 | . 17 | .56 | .08 | * O/+ | f.04 |
| Jan. Feb. | 2.16 | | .00 | | 3.8L | .52 .78 | 1.62 3.00 | 1.34 | .07 .07 | 1.47 |
| Mar. | 4.15 | | ≠. 07 | | 5.11 | .59 | 3.01 | 1.04 | .49 | ¥.35 |
| Apr. | 5.97 | .71 | 17 18 | | 5.79 | .59 .72 | 4.17 | .92 | .61 | ₹.95 ₹.31 |
| May | 7.57 | .07 | 18 | | 6.31 | .78 | 4.92 | 3.11 | 2.02 | ≠ 1.09 |
| June July | 10.13 | .01 | √.13 19 | | 6.27 | •55 • 7 8 | 5.38 | .78 4.31 | 0.67 2.60 | √1.71 |
| Aur. | 8.17 | .20 | 7.01 | | 5.72 | •78 | 4.16 | 3,98 | 3.80 | √. 18 |
| Sept. | 11.72 | 1.52 | 68 | | 5.06 | .78 .78 | 5.95 36.55 | 3.98 5.57 23.34 | 7.20 | /.18 -1.63 /5.13 |
| Total | A2.3B | | 97 | | | | 36.55 | 23.34 | 18.21 | 15.15 |
| Oct. | 1 41 | .68 | 1.27 | | 4.28 | .28 | 3.30 | 5+73 | 3.21 | 4.52 |
| Nov. | 1.79 | | 1.02 | | 3.67 | -28 | 1.03 | .10 | .09 | 7.01 7.18 72.49 |
| Dec. | 1 | | 011 | | 2.96 | .66 .79 | 1.95 | .64 | .16 2.83 | 6.10 |
| Jan. Feb. | 7.95 | | 40 /.35 | | 2.83 3.61 | .79 .18 | 2.21 | 5.32 .53 | -47 | w . Oh |
| war. | 7.10 | .31 | /11 | | 4.58 | .78 | 3.57 2.21 | 2.81 | 3.05 | - 21 ₁ |
| Apr. | 2.79 | | 4.46 | | 5.53 6.34 | .140 .78 | 2.21 | 1.35 | 2.51 | ≠.24 ≠1.80 |
| May June | 9.57 8.68 | 1.74 | 31 47 | | 7.00 | .78 | 5.46 | 1.01 | 1 76 | 75 |
| July | 5.16 | 1.01 | 4.45 | | 6.78 | .77 | 5.22 | 1.15 | 2.80 | -1.67 |
| Aug. | 5-40 | | 1.25 | | 5.87 | .78 .68 | 4.58 | 2.08 | 1./10 | 1.62 |
| Sept. | 61.45 | | 71.03 | | 5.62 | •00 | 40.03 | 24.00 | 2.72 | -1.73 -1.83 |
| 1056- | | | 7-007 | | | | | | | |
| Oct. | 5.63 | | 1.12 | | 4.65 | .76 | 3.53 | 2.22 | 1.29 | 4.93 |
| Nov. | 1.59 3.27 | | 1.09 | | 3.33 2.77 3.11 | ·110 | 1.33 1.77 2.18 | .35 .71 | .24 | √.11 √.52 |
| Dec. Jan. | 3.27 2.09 | .70 | 09 | | 2.77 | .64 .70 | 2.78 | •71 | .19 .35 | 4.21 |
| Feb. | 2.15 | .80 | √.01 | | 3.28 | •35 | 1.12 | .21 | 166 | 7.2L 01 |
| Mar. | 6.49 | | 07 | | 4.45 | .78 | 3 - 47 | 3.75 .71 | 5.11 | 7.5h 7.07 71.10 |
| Anr. May | 1.69 7.99 | .7L | ≠.21 22 | | 5.94 | .20 | 1.19 | 2.04 | .6h .9h | 1.10 |
| June | 11.87 | • 124 | √.0!. | | 6.21 | .78 | 4.84 | 7.81 | 6.01 | ≠1.50 |
| July | 10.64 | | ≠.03 | | 6.27 | .78 .78 | 4.89 | 5.78 | 1.40 | 14.58 1.68 |
| Aur. Sept. | 7.97 | .08 | 0 | | 5.70 4.89 | .78 | 4.45 | 195 | 5.79 | 34 |
| Total | 71.64 | | 7.01 | | 4.00 | . 10 | 3.31 37.60 | 4.95 54.05 | 5.79 | 79.52 |
| 1259=6 | 0 | | | | 1 20 | | | | 2,60 | 12 76 |
| Oct. | 8.26 | | 16 √.33 | | 4.79 3.37 | .78 .64 | 3.74 2.16 | 4.30 | - 36 | √1.76 √.45 √.50 |
| Dec. | 1.96 | | .00 | | 2.59 | .49 | 1.27 | +69 | +19 | √. 50 |
| Jen. Feb. | .86 | .51 | 4.04 | •03 | 3.52 | .12 | .42 | 0 | .11 .55 | ~.11 √1.98 |
| Mer. | 11.92 | | 09 | | 3.57 5.18 | .78 .52 | 2.78 | 2.53 1.25 .78 | 2,30 | -1.05 |
| Apr. | 3 = 143 | | 0/4 /.03 /.10 | | 5.96 | .45 | 2.68 | .78 | 2.30 | ₹.15 ₹.10 ₹.30 |
| May | 1.81 | •51 | ≠·10 | | 6.99 | .15 | 1.05 | • 50 | .28 | ₹-10 |
| June July | 5.89 13.06 | 1.66 | 31 -1.69 | | 5.73 | .66 .78 | 5.78 5.39 | -65 7-64 | 2.64 | |
| Aug. | 5.78 | .51 | J 80 | | 5.80 | •75 | 4.35 | 2.92 | 3.77 8.06 | 95 |
| Section 2. | 5.78 17.05 70.20 | •78 | 55 | | 11.55 | -78 | 4.35 5.55 34.38 | 12.70 | 8.06 | 95 64 12.88 |
| Total 1960-6 | 70.20 | | -432 | | | | 24 • 26 | 211015 | 21.8/4 7 | 15.50 |
| Oct. | 3.64 | 1.13 | 1.43 | | 4.52 | وباله | 1.04 | 1.79 | 2.77 | 99 |
| Nov. | .10 | | ≠. 09 | | 3.36 2.81 | •32 | 1.08 | .2/ ₄ | •55 •11 | 31 / ol. |
| Jan. | 1.25 5.15 | | 01. | | 3.15 | •32 •78 | 2.46 | 2.63 | 1.13 | 7.24 71.50 29 |
| Feb. | •95 | | ol | .01 | 3.90 | .25 | .98 1.41 | 0 | 1.13 .29 | 29 |
| Mer. | 1.84 | | ≠.02 | | 6.113 | .22 | 1.41 | · 1/4 | .17 | ¥.27 |
| Apr. May | 2.87 | | ≠.01 1/4 | .3/4 | 7.63 7.77 | •37 •55 | 2.82 | .05 0 | .17 | 11 11 |
| June | 5.77 | | 06 √.13 | .13 | 7.14 | •77 | 5.50 | 0 | .25 | 25 |
| July | 5.11 | 0.00 | ≠.13 | | 6.82 | .110 | 2.73 | - 38 | •57 | 19 |
| Aug. Sept. | 5.71 | 2.08 | li8 √.53 | | 5.35 5.80 | -ЦВ -Ц6 | 2.57 | 1.31 | .83 | 25 15 |
| Total | 35.37 | | 7.53 7.51 | | ,,,,, | • dr | 2.67 | .58 1.3l ₄ 7.00 | 7.814 | √.1₁5 01₁ |
| - | | | - | | | | | | | |
| | 555.61 | | 7.27 | | | 2 | 205.00 | 120.88 | 96.96 | 31,92 |

THE BASE STORAGE AND BASE FLOW RELATIONSHIPS AS INFLUENCED BY CLIMATE, CHARACTERISTICS AND CONDITIONS OF AGRICULTURAL WATERSHEDS

Line Project No.: SWC 1-b4, 2-b1, 2-b4 Code No.: FLA PL-5

Prepared by: W. H. Speir

Location of Experiment: Central and southern Florida

Personnel Involved:

ARS - W. H. Speir and W. C. Mills Central & So. Fla. Flood Control Dist. - J. P. Clawson, R. L. Taylor

Date of Initiation: May 27, 1959

Expected Duration: 5 years

Objectives:

To derive techniques for separating surface runoff, interflow, and base flow from the hydrograph.

To associate the several components of the hydrograph with corres-

ponding storage retained in the watershed.

To correlate interflow and base flow rates with physical characteristics of agricultural watersheds such as size, shape, stream pattern, soil, geology, etc.; and with basin conditions such as land use and treatment, soil moisture and season.

Need for Study: See 1961 Annual Report.

Design of Experiment and Procedure: See 1961 Annual Report.

Experimental Data and Observations:

Daily discharge hydrographs for Water Year 1963 for Indian River Farms (Fla W-1), Upper Taylor Creek (Fla W-2), Upper Taylor Creek (Fla W-3) and Monreve Ranch (Fla W-4) are plotted in Figures 1, 2, 3, and 4.

Figures 5 and 6 show the mean daily ground water depths below ground surface for watersheds W-2 and W-3 for Water Year 1963. Figure 5 is the average of data from seven well sites, and Figure 6 is the average of two sites.

Figure 7 shows the mean daily depth-below-ground-surface of water tables at the recorder sites on Well Lines "A" and "B" in the Upper Taylor Creek Watersheds.

Figures 8 and 9 are monthly means derived from the period of record data on watersheds W-2 and W-3. Figure 8 shows mean monthly depths of water table below ground surface, low and high months of record, and 24 hour maximum and minimum depths of water tables for Watershed W-2. Figure 9 presents the same data for Watershed W-3.

Figure 10 is a composite figure of Upper Taylor Creek (W-2 and W-3) giving iso-depth lines for a mean year (all season) winter months and

summer months, together with water surface contours for the mean year.

Figures 11 through 14 show the daily fluctuation of the artesian piezometric surface in the Indian River Farms drainage for the period 1959-1962. These data were based on two capped artesian wells designated as "North" and "South" wells.

Comments and Interpretations:

An examination of the hydrograph for Indian River Farms Drainage District (Fla W-1) shows the usual fluctuations in flows produced by wasted artesian irrigation water. Sector gate controls on the three outfall canals maintainfairly uniform water levels over the District. A comparison of Figure 1 with figures 2 and 3 will demonstrate the diminishing effect of these controls on the range of maximum and minimum flows. Figures 2 and 3 are hydrographs for Water Year 1962-63, Upper Taylor Creek Watersheds W-2 and W-3. For the first time during the study, rainfall was so distributed in time that storm events occurred after periods of drought and had minimal effect on runoff. This is shown by the narrow range of flows for both watersheds: 2-200 cfs for W-2, and 0-105 cfs for W-3.

Figure 4 illustrates the seepage effect that irrigation water has on runoff during periods of no rainfall. "Irrigation Days" refer to days on which significant pumped irrigation occurred, and usually amounted to about .20 inch per day. An examination of the hydrograph in April, when sustained irrigation during a four-week period occurred with no rainfall, shows that seepage contributes about 1 cfs to runoff. Since this amounts to .006 in./area, it can be estimated that approximately three percent of irrigation water is wasted as runoff. This is conservative inasmuch as runoff was increased in the amount of about 1 cfs instead of diminishing along a normal recession rate.

Figures 5 and 6 show the daily mean water-table depths-below-ground surface for watersheds W-2 and W-3 during Water Year 1962-63. It can be seen that average depths were about 2.5-3.0 ft. for both watersheds. At this depth, there is potential groundwater storage in excess of 3 inches which accounts for the small increments of runoff that occurred as interflow and surface runoff for the total water year.

Figure 7 is a water-year plotting of mean daily water-table depths-below-ground-surface for the two recording gages on well lines "A" and "B". These wells are situated so that recordings are average for a 2,000 ft. reach normal to the stream (1962 Annual Report). Well line "A" is in the upper portion of the watershed and normally reflects influent streamflow patterns. Well Line "B" is in the lower portion of the water-shed and reflects effluent streamflow conditions due to the backwater stage of the stream above the newly installed control structure. A comparison of the two parallel well-line plottings shows these drainage and irrigation cycles. The wider range of rise and recession in Well Line "B" (backwater stage influence) is readily apparent. The two lines are seven miles apart, but the peaks and troughs show that rainfall is uniformly distributed over the area, and that rises or falls in the water table reflect the same response to rainfall through the same depths in the soil profile.

Figures 8 and 9 show the mean monthly, the low and high months of record, and the 24-hour maximum and minimum water-table depths-below-ground-surface for Upper Taylor Creek Watersheds W-2 and W-3.

A comparison of Figures 8 and 9 with Figure 10 will fairly well characterize ground-water conditions in the two Upper Taylor Creek Watersheds for the period of record.

Figure 10 demonstrates the mean depth of water table during periods of high evapotranspiration - (March, April, May, June, July, August, Sept., Oct.) and low (November, December, January, February) for this latitude. The #4 component of this composite figure shows the all-season water-surface contours.

It is noteworthy that the upper central portion of the watershed seems to have deeper water tables than other areas. This is attributed to the density of drainage canals, overall land development in the area, and its location in relation to the fall line between marine terraces. A comparison of the water surface contours with watershed topography shows that water tables in the watershed are closely parallel to ground surface regardless of slope.

Figures 11 through 14 show the daily fluctuation of the artesian piezometric surface in the Indian River Farms Drainage District from 1959-1962. These four figures demonstrate the periods of heavy demand during the year, and the shortening of use in wet years (1960) and extended use in drought years (1961-62). The expanded use of artesian water in the area is very clearly shown by a close comparison of these figures. From 1959 until 1962 there has been a steady decline in piezometric surface elevation for the area. In 1959 this elevation (height above well outlet) was about 19 ft. It has steadily declined until it stands at about 14 ft. during 1962.

The two wells are situated in relation to each other elevation-wise such that the actual piezometric surfaces would be approximately the same if the reference datum were elevation rather than well outlet. This would indicate that the two wells are faily well representative for the area.

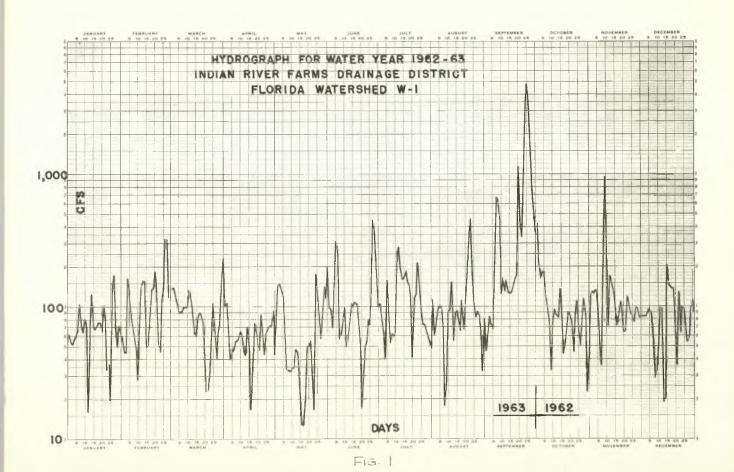
Summary:

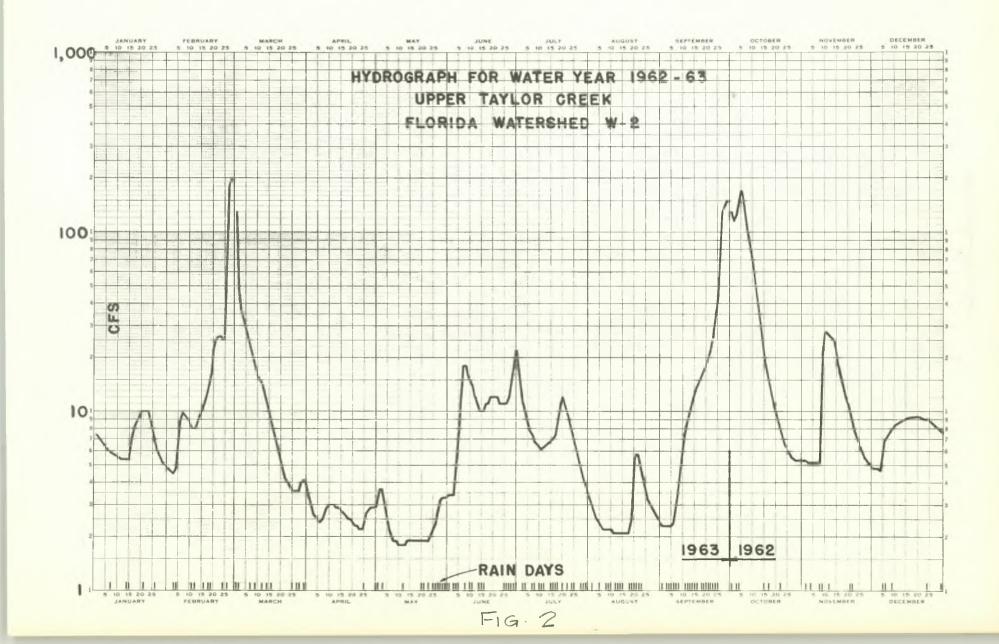
Annual daily mean plottings of flow rates from 4 experimental watersheds show the variation in rates of runoff as determined by: area of watershed, degree of development, contributions from pumped and artesian-supplied irrigation, and natural-against-artificial control of runoff.

Ground-water depths as determined from monthly means, monthly maximums and minimums, and 24-hour maximum and minimum are shown graphically in combination with iso-depth contours for an average year, average summer, and average winter for watersheds W-2 and W-3.

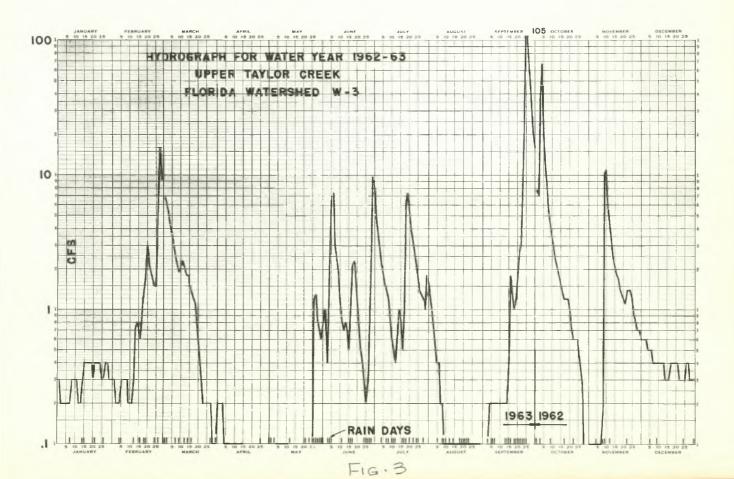
An analysis of the hydrograph for Monreve Ranch indicates that approximately 1 cfs runoff is caused by seepage from pumped irrigation water during rainfree periods.

Daily plottings of piezometric surface elevations show a decline of approximately 5 ft. in the artesian pressure head in the Indian River Farms Drainage District between 1958 and 1963 (1959=1962).





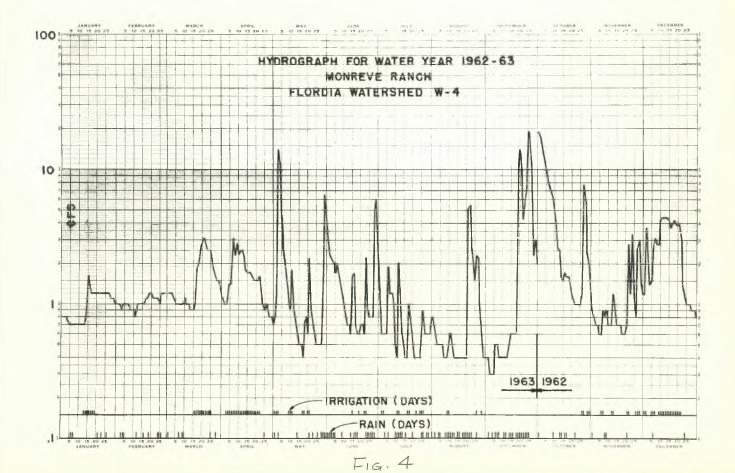
Fe . 4



1 1 1 1

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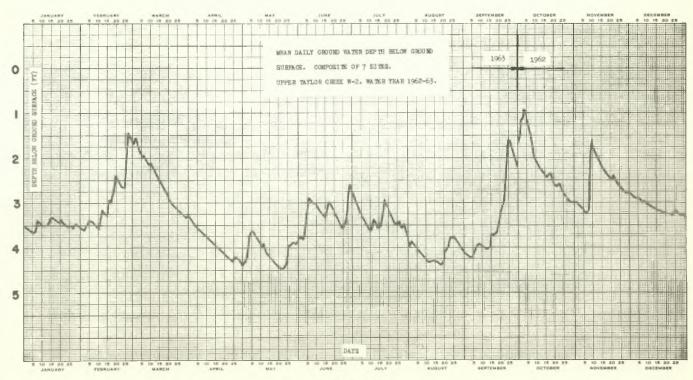
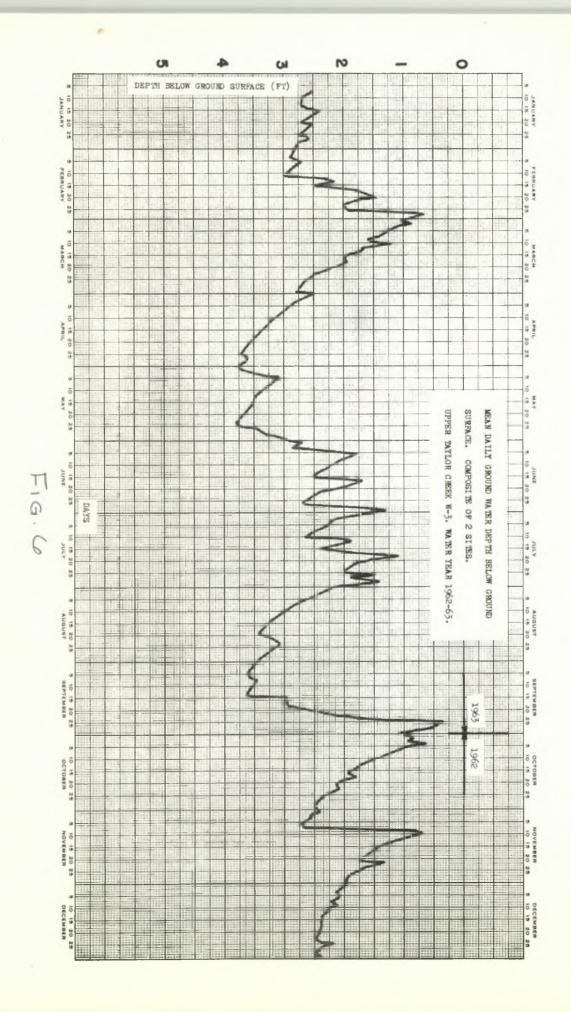


Fig. 5



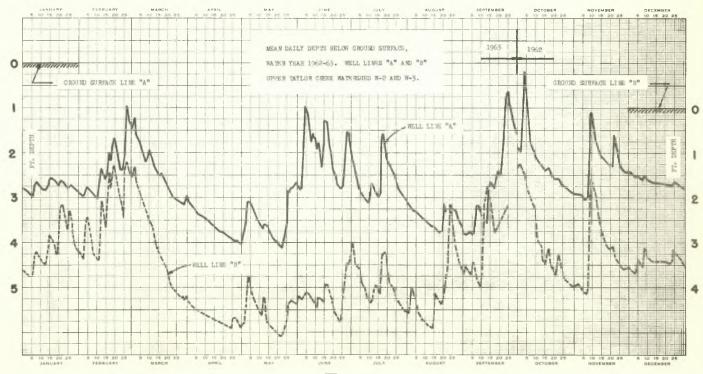
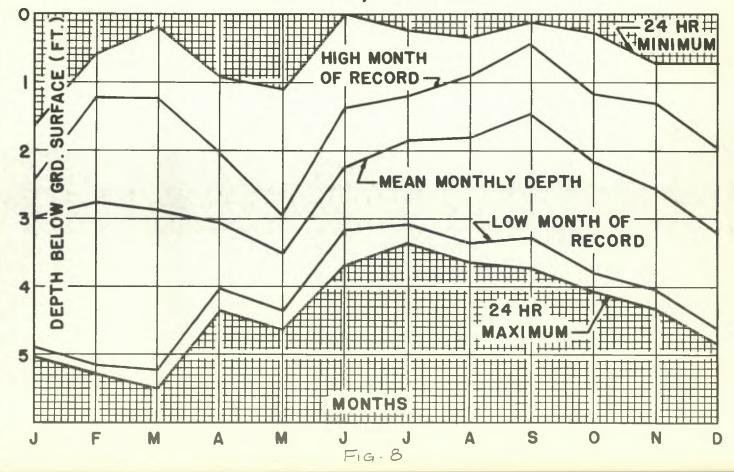


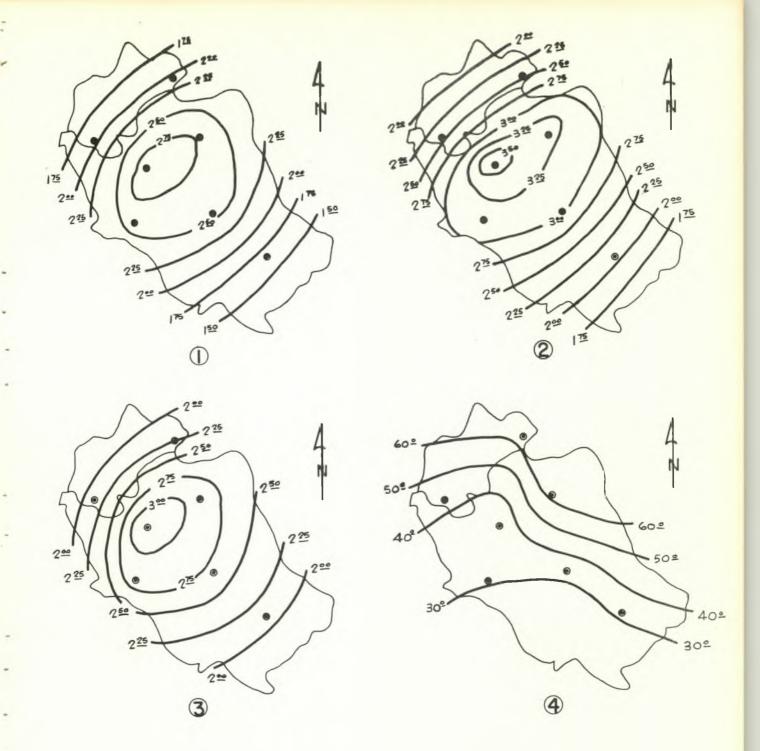
FIG. 7

GROUND WATER STAGES UPPER TAYLOR CREEK WATERSHED FLA. W-2, 1959-1962



GROUND WATER STAGES UPPER TAYLOR CREEK WATERSHED FLA. W-3, 1959 - 1962 OF RECORD WEAN MONTHLY DEPTH

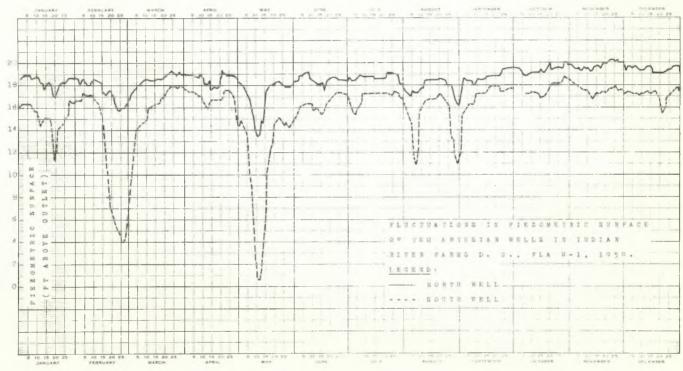
FIG. 9



MEAN GROUND WATER DEPTHS UPPER TAYLOR CREEK - FLA. W-2,W-3 1959 - 1962

. WELL SITES

- (1) AVG. DEPTH BELOW GROUND SURFACE MAR., APR., MAY, JUNE, JULY, AUG., SEPT., OCT.
- 2 AVG. DEPTH BELOW GROUND SURFACE JAN., FEB., NOV., DEC.
- 3 AVG. DEPTH BELOW GROUND SURFACE ALL SEASONS
- WATER SURFACE CONTOURS (FT. MSL) ALL SEASONS



40 0 1

FIG. 11

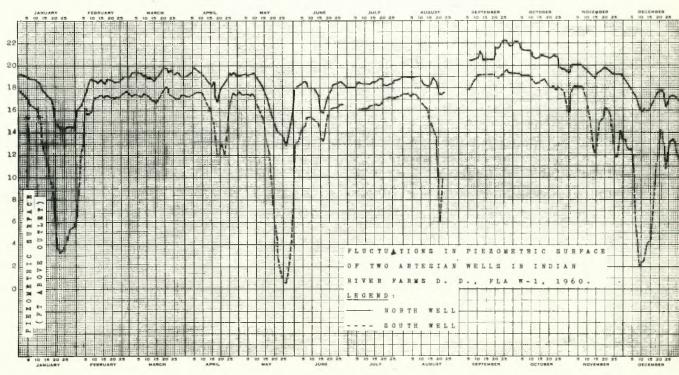
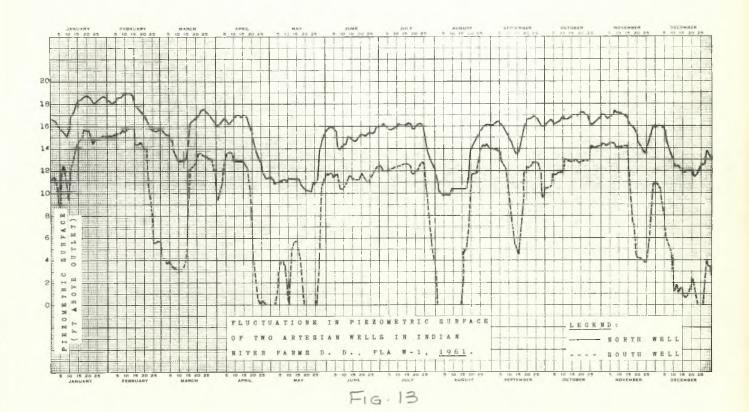
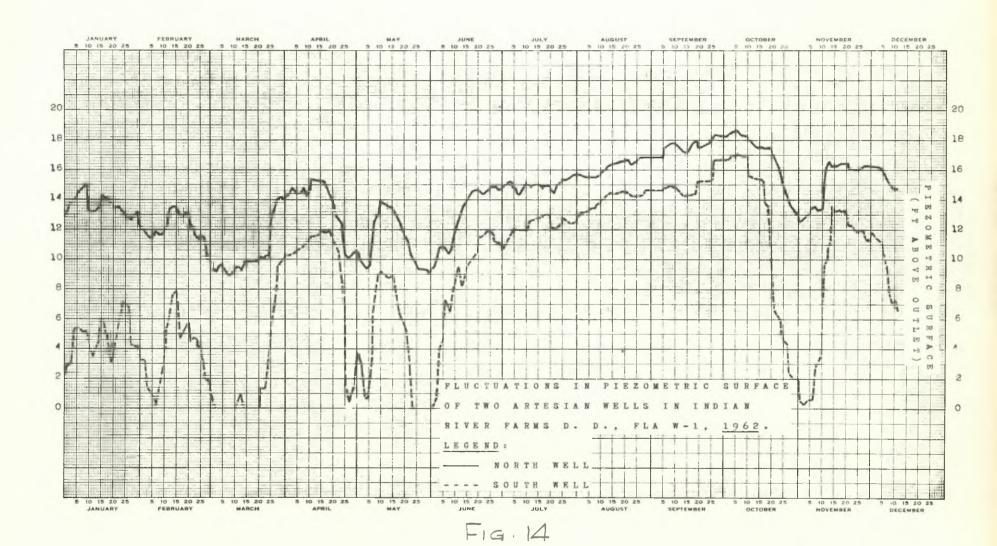


FIG. 12



42 2 5



2.4

RATES AND AMOUNTS OF RUNOFF AS AFFECTED BY CLIMATE, CHARACTERISTICS
AND CONDITIONS OF AGRICULTURAL WATERSHEDS

Line Project No.: SWC 2-bl, 2-b4

Code No.: FLA PL-6

Prepared by: W. C. Mills and W. H. Speir

Location of Study: Central and Southern Florida

Personnel Involved:

ARS - W. C. Mills, W. H. Speir, J. C. Stephens, J. H. Howerton, Jr. Fla. Agr. Exp. Sta. - F. H. Thomas Central & So. Fla. Flood Control Dist. - J.P. Clawson, R.L. Taylor

Date of Initiation: June 12, 1959

Expected Duration: Continuing

Objectives:

To derive the rainfall runoff relations as affected by climate, characteristics, and conditions of agricultural watersheds as applied to:

- (a) Total annual volume of runoff with respect to distribution in time and to type of flow.
- (b) Developing procedures for determining rates of storm runoff.
- (c) Deriving methods for estimating the frequency of excessive or deficient volume and related rates of runoff.

Need for Study: See 1961 Annual Report.

Design and Procedure: See 1961 Annual Report.

Experimental Data and Observations:

- l. Rainfall and runoff data together with information on soil moisture storage and depletion rates for the entire periods of record from Florida experimental watersheds W-1, W-2, and W-3 were used in a study of the Cypress Creek runoff formula. Figure 2 gives yearly maximum 24-hour runoff rates and relation to watershed size. Figure 3 gives these yearly runoff events as represented by corresponding "C" values and their relation to causative rainfall excess amounts.
- 2. Drought conditions during most of 1963, coupled with the occurrence of storm rainfall on almost record-low water tables created new records of low runoff on all of the experimental watershed but the artesian irrigated W-1. Assuming the previous limits established for the various types of flow for the experimental watersheds, a breakdown of flows for the period of record is shown in Table I. The runoff data for Fla W-1 is known to be provisional and subject to change and will be included in next year's report.

Table II gives a summary of the annual precipitation, runoff, and ET as estimated from precipitation minus runoff relation corrected for basin storage.

Figures 7, 8, 9, and 10 show the accumulative ratio of runoff to rainfall for Watersheds W-1, W-2, W-3, and W-4, with their graphic-ratio line for the periods of record. On W-4, the period of record being short and covering both wet and dry years, no characteristic ratio has yet become apparent. Figures 11 and 12 are flow duration curves for W-2 and W-3 derived from flow distributions for the period 1955-1962.

Comments and Interpretations:

1. Cypress Creek Drainage Formula Studies

Using data from three experimental watersheds in south Florida, a study was made to determine the suitability for drainage design of the Cypress Creek formula (Q = C M 5/6) and to develop a relation to provide for selection of C values based on probability of occurrence of design storm. In this formula, Q is the peak $2l_1$ -hour runoff rate for a storm event; M is drainage area in square miles; and C is a coefficient.

This study was reported in a paper by John C. Stephens and W. C. Mills entitled "Use of the Cypress Creek Formula to Estimate Rumoff in the Southern Coastal Flatwoods", which was presented at the national A.S.A.E. meeting in Chicago, December 11, 1963. The report as it appears here is a condensed version of that paper.

The three watersheds from which data were collected--Florida Watersheds W-1, W-2, and W-3, are generally representative of soil and slope conditions in the Southern Florida Flatwoods and can be considered characteristic of agricultural watersheds of this area ranging in size from 15 to 100 square miles. They also represent decidedly different stages of drainage and agricultural development. These locations are judged to be similar in many ways to the Gulf and Atlantic Coast Flatwoods, and level sandy parts of the Southern Coastal Plains. Figure 1 gives location of the experimental watersheds in relation to applicable major land resource areas.

Storm events causing annual maximum 24-hour runoff rates were used as a basis in this study of the Cypress Creek drainage formula. These runoff rates and dates of occurrence were found from an 11-year record on Indian River Farms Drainage District (W-1) and six-year records on the two Taylor Creek watersheds (W-2 and W-3).

In comparing runoff rates for the three watersheds, it was first necessary to obtain the rainfall excess for each storm event.

Soil moisture was found to decrease during rain-free periods in accord with the equation $I_t = I_0 \ K^t$, where I_0 is the initial amount of water in storage, I_t is the reduced amount t days later, and K is a recession factor. Values of K $_{\Xi}$ 0.96 for winter months and 0.94 for other months were obtained from observed ground water recession curves and laboratory-determined desorption curves. Water stored in the soil was then calculated on a daily basis, assuming the water table was at ground surface with 5 inches of evaporable water in storage 30 days prior to storm runoff. This assumption was, of course, not strictly true in most cases; however, over a 30-day period the effect of this error was

negligible. The rainfall excess was found by subtracting water storage available in the soil at the beginning of a storm event from the total storm rainfall.

A graphical analysis of the equation $Q = C M^X$ was made by plotting on log-log graph paper peak 24-hour runoff rates against watershed areas for annual maximum storms. Figure 2 shows the resultant regression equations fitted to peak daily flows from rainfall excess amounts of 7, 5, and 2 inches. Corresponding individual total storm-rainfalls were approximately 10, 8, and 5 inches. Since most of the storms had durations of about 24 hours, such events were estimated from U.S. Weather Bureau rainfall frequency charts to occur on an average of once in 50, 10, and 2 years at the watershed sites.

The best fitting equation $Q = 131 \text{ M}^{\circ}83$ was obtained from peak 24-hour runoff following the largest storms of record. The two lower lines, $Q = 115 \text{ M}^{\circ}79$ and $Q = 97 \text{ M}^{\circ}63$, were located by interpolation for computed rainfall excess amounts of 5 and 2 inches.

The validity of the exponential term M $^{5/6}$ in the Cypress Creek Formula for the 50-year frequency storm is indicated by the excellent fit of the regression line Q = 131 M 83 . The trend shown by the interpolated regression lines for lesser storms connotes a decreasing exponent for decreasing storm size. However, the actual plotted points give too much scatter for these two regression lines to be significantly meaningful in contrast to the good fit of the upper-envelope line of Figure 2.

It is therefore considered prudent to accept the upper-enveloping line Q = 131 M $^{5/6}$ as the proper form for expressing flow from these watersheds. Thus, it is recommended that the exponential value of $^{5/6}$ be retained as a constant, and the value of the coefficient C be adjusted to give proper runoff rates for lesser storms. That is to say, the formula Q = C M $^{5/6}$ will give reasonably accurate runoff values for watersheds of different size with appropriate values of C.

A method for selecting C values was developed from experimental watershed data by evaluating the coefficient C in terms of rainfall excess, and then relating both to probable storm recurrence periods.

Values of the coefficient C for annual maximum 24-hour runoff events were obtained by direct substitution of these runoff rates and corresponding watershed areas into the Cypress Creek formula. These C values were then plotted as a function of rainfall excess. (See Figure 3). Based on 20 runoff events, the regression equation $\hat{y} = 16.24 + 14.75$ x was computed by the method of least squares. Here \hat{y} is the predicted value of the coefficient C, and x the rainfall excess (inches) for individual storm periods.

The coefficient of regression r, coefficient of determination r^2 , and the 50 and 95 percent confidence levels were also determined and are shown on the graph.

The probability of occurrence or return frequency of rainfall excess, shown superimposed on the x-axis in Figure 3, was established from the relation of rainfall excess to total storm-rainfalls and the statistical frequency of the latter. Available storage in the soil prior to rainfall events was assumed to be three inches and this amount was added to rainfall excess to obtain corresponding total rainfall. This available storage naturally varied somewhat, depending on antecedent rainfall, but the 3-inch value gave best and surprisingly good fit. Probability of occurrence for the vicinity of experimental watersheds in South Florida of total 24-hour rainfall was then obtained from U. S. Weather Bureau rainfall frequency charts.

This method of obtaining return frequency of various size runoff events from storm frequencies was checked by the Hazen Method; that is, peak 24-hour runoff rates for maximum annual storm events were plotted on logarithmic, normal-probability paper. Resulting annual flood frequency lines indicated the size flood expected for the various probabilities of occurrence. Values of C computed by the two methods compared favorably for the 11-year Vero Beach (W-1) record, but were very different for the 6-year records of both Taylor Creek watersheds (W-2 and W-3). Since Benson (M. A. Benson. Evolution of Methods for Evaluating the Occurrence of Floods. U.S. Geol. Sur., W.S. Paper 1580-A, Washington, D. C., 1962.) found a minimum record of 12 years is needed to establish the mean-annual flood (return frequency of 2.33 years) within an accuracy of 25 percent, at the 95 percent confidence level, it is no surprise to find results from the 6-year records at variance. However, when the 6year Taylor Creek records were normalized by using the maximum runoff of 1956 as the 50-year event (as established on nearby streams with longer records), flow frequencies were reasonably in line with the Vero Beach results, and consequently with the concomitant C values shown on the graph in Figure 3, derived purely from rainfall frequency.

In drainage design, the degree of flood protection planned is usually based upon economic considerations and is directly related to the probability of occurrence of a design storm. Once the degree of protection and design storm probability of occurrence have been decided upon, values of the coefficient C can then be determined from the relations of Figure 3 for areas where soil and rainfall conditions are similar to those at the experimental sites.

The prediction equation of Figure 3, which involves only C values and rainfall excess amounts, can also be applied to other flatwoods areas that differ from the experimental area in soil storage and rainfall probabilities. The relationship showing probability of occurrence of various rainfall excess amounts would have to be adjusted for these other areas. Such adjustment would require a knowledge of occurrence probability of various 24-hour rainfall amounts and storage to be subtracted from total rainfall. Local soil conditions would determine available storage; however, for much of the flatwoods areas soil storage would be expected to be approximately the same as that of the experimental watersheds. The occurrence probability of various 24-hour rainfall amounts can be obtained from U.S.W.B. rainfall frequency charts, such as Figure 4.

Figure 4 is an isopluvial map, adapted from the U. S. Weather Bureau (D. M. Hershfield. Rainfall Frequency Atlas of the United States. Tech. Paper No. 40, U.S. Dept. of Commerce, Weather Bur., Washington D.C., 1961.), which shows expected 10-year, 24-hour rainfall for the region under discussion. The experimental watersheds are seen to be in an area of medium high rainfall intensity between the Atlantic and Gulf Coast regions. From this and similar isopluvial maps the 2-, 10-, 25-, and 50-year frequency 24-hour rainfalls at the experimental sites were found to be 4.75, 7.50, 8.50, and 10 inches; from which the inches of rainfall excess of Figure 3 have been related by abstracting the 3 inches of infiltration storage normally available.

The 10-year isopluvial map, Figure 4, shows maximum 24-hour rainfalls for the lower Gulf Coast are several inches higher, and for the South Atlantic Coast several inches lower than at the Florida experimental sites. The same trend holds for storms ranging from the 2- to 100-year return frequency. Therefore, other conditions being equal, values of the coefficient C in the Cypress Creek formula would normally increase along the lower Gulf Coast and decrease along the South Atlantic Coast in accord with differences in the probable maximum 24-hour storm rainfall.

To illustrate, and adopting a 100-square-mile watershed as standard for comparative purposes, the 24-hour flow rates for the Southern Florida Flatwoods may be computed from C values in Figure 3 for the mean annual $Q_{2.33}$; the 10-year Q_{10} , and the 25-year Q_{25} frequency as follows:

 $Q_{2.33} = 44 \times 100^{.833} = 2.040 \text{ cfs/day}$ $Q_{10} = 83 \times 100^{.833} = 3.850 \text{ cfs/day}$ $Q_{25} = 98 \times 100^{.833} = 4.550 \text{ cfs/day}$

For the same size watershed in the lower Coastal Plains of North Carolina, the 2-year isopluvial line is approximately 1 inch less than at the Florida sites; the 10-year line (Figure 4) is $1\frac{1}{2}$ inches less, and the 25-year line also $1\frac{1}{2}$ inches less. When infiltration capacity is the same, the corresponding C values are found from Figure 3 by shifting toward lower readings on the x-axis by 1, $1\frac{1}{2}$, and $1\frac{1}{2}$ inches to give the resulting computed flows:

 $Q_{2.33} = 30 \times 100^{.833} = 1,390 \text{ cfs/day}$ $Q_{10} = 61 \times 100^{.833} = 2,830 \text{ cfs/day}$ $Q_{25} = 76 \times 100^{.833} = 3,530 \text{ cfs/day}$

For a similar watershed along the Gulf Coast in Northwest Florida, near the Alabama State Line, where the 2-, 10-, and 25-year, 24-hour storm rates are increased by $1\frac{1}{4}$, 2, and $2\frac{1}{2}$ inches, the C values are found by advancing these amounts on the x-axis, projecting an upward, vertical line to meet the regression line, and then a horizontal line to the y axis to obtain C. Computed flows are:

 $Q_{2.33} = 61 \times 100^{.833} = 2,830 \text{ cfs/day}$ $Q_{10} = 112 \times 100^{.833} = 5,280 \text{ cfs/day}$ $Q_{25} = 137 \times 100^{.833} = 6,360 \text{ cfs/day}$ Thus, by simply adjusting for differences in rainfall intensity, the predicted flow rates for the Atlantic Coastal Flatwoods are about 75 percent, and for the Gulf Coastal Flatwoods about 140 percent of those indicated for a 100-square-mile watershed in the Southern Florida Flatwoods in the Lake Okeechobee-Vero Beach area.

As a check, flow rates computed by the Cypress Creek approach were compared with those computed by the regional flood frequency method, developed by the U.S. Geological Survey (T. Dalrymple. Flood Frequency Analyses. U.S. Geol. Sur. W.S. Paper 1543-A, Washington, D.C. 1960)

Essentially the regional flood frequency method applies statistical and hydrologic theory to past flood records of selected stream basins to define: (a) Curves relating the mean annual, $Q_{2.53}$, index flood to basin characteristics, and (b) composite curves relating discharge, expressed as a dimensionless ratio, of the index flood to recurrence intervals for streams in certain areas. That is, specific historical stream records are generalized to represent the flood regime for broad, related hydrologic areas. This method is completely different from the Cypress Creek approach.

The flow rates for the standard 100-square-mile basin calculated by the regional flood frequency method are shown for the Coastal Plains of North Carolina, South Carolina, Georgia, Florida, and Alabama in Table 1. These were computed from material in individual state reports, which follow, plus correspondence (Personal communication, A.E. Johnson, Dist. Engr., U.S. Geol. Sur., Water Resources Div., Surface Water Br., Columbia, S.C., Sept. 1963), and combined as shown.

*Peiree, L.B. Floods in Alabama - Magnitude and Frequency. Geol. Sur. Cir. 342, Washington, D.C., 1954
Forest, W.E., and Speer, P. R. Floods in N.C. - Magnitude & Frequency. USGS open file report, Raleigh, N.C., 1961
Bunch, C. M. & McClone, P. Floods in Ga. - Magnitude and Frequency, USGS open file report, Atlanta, Ga. 1962
Pride, R. U. Floods in Fla. - Magnitude and Frequency, USGS open file report, Ocala, Fla., 1958

The 18 individual areas delineated in Figure 5 represent separate hydrologic areas, considered homogeneous because of reasonably common flood characteristics. They are defined on a broad-scale, drainage-basin pattern, and while they are generally related to major physiographic provinces and land resource areas, it is not uncommon for them to cut across the lesser geomorphological units.

For comparison later with examples worked out by the Cypress Creek method, the mean annual flood, $Q_{2.33}$; the probable 10-year flood, Q_{10} ; and the probable 25-year flood, Q_{25} ; still for a 100-square-mile watershed, are shown for each area. However, these are maximum instantaneous flows, whereas the Cypress Creek formula estimates the maximum 24-hour flow rate, so the two may not be strictly comparable.

The amount the instantaneous peak rate exceeds the 24-hour rate depends on watershed size and storm magnitude. For large watersheds and high-volume storms the two rates are not much different, but the spread becomes greater as watershed size and 24-hour storm intensities decrease. The effect of watershed size is shown in the graph, Figure 6, for the several previously described experimental watersheds, plus an additional nearby watershed of approximately 6 square miles with a short-term record. In this case the 75-square-mile Vero Beach watershed, drained by an interconnected network of ditches through three main outfall canals, has been arbitrarily divided into three equal basins of 26 square miles each. The resulting graph in Figure 6 gives a smooth curve with increasing spread of the 95 percent confidence limits as the watersheds become smaller.

The ratio of the instantaneous to the 24-hour peak rate for the 100-square-mile watershed has been accepted, from the curve, as 1.14. This value is used in Table 2 to revise upward the Cypress Creek rates previously computed for the South Florida, Northwest Florida, and North Carolina areas, for comparison with those computed by the regional flood frequency method.

The ratios in Table 2 show reasonably favorable comparison between the two methods except for the North Carolina area, where the Cypress Creek approach gave double the flows estimated by the regional flood frequency method. While data are not available to calculate the coefficient of variation using the regional flood frequency method, the appreciable difference in computed flows frequently shows between two adjacent downstream hydrologic areas, separated only by a state line, illustrates the wide range to be expected.

In general, the two methods are judged to give comparable results for most Coastal Plain areas in Florida, Georgia, and Southeast Alabama within the limits of chance inherent with hydrologic variables. On the other hand, the extreme disparity indicated by the ratio of computed flows for the Coastal Plains of North Carolina and South Carolina shows a significant difference between the two methods. The differences could result from a greater infiltration capacity in the Carolinas as compared to Florida. Or, it may result from the relatively few small agricultural watershed records available for flood frequency analyses, which could give biased results. Other variables could, of course, contribute, but in view of the relative similarity of the coastal flatwoods regions, plus the high coefficient of determination, $r^2 = .82$ between flood flows and excess rainfall, the most probable explanation is either (a) a meaningful difference in rainfall excess between the Southern Florida and North Carolina Flatwoods, or (b) a scarcity of stream-flow records for analyses in the Coastal Plains of the Carolinas. Further studies are needed to clarify these differences and establish the most accurate method for computing flood peaks in these areas.

2. Flow Components and Runoff-Rainfall Ratios

Table I gives the breakdown, by years, of base flow, interflow, and overland flow (surface runoff) as defined within the limits characteristic of watersheds Fla. W-1, W-2, and W-3. Florida W-4, Monreve Ranch, has not been included due to the fact that pumped irrigation during dry periods hinders the preparation of a base storage curve for the upper limit of base flow. This pumped irrigation water sustains flows by seepage during normal rainfree flow recessions.

The runoff data furnished by the U.S. Geological Survey from Fla. W-1, Indian River Farms Drainage District, is known to be in error for the 1963 Water Year, and was provided only at our request for the provisional data on hand. The corrected data will appear in next year's report.

It is noteworthy that 100 percent of the runoff from Fla. W-2, Upper Taylor Creek, 63,100 acres, occurred as base flow. Low water tables during the major portion of the year provided soil storage to the extent that mean daily flow rates never exceeded the flow rate of 333 cfs, the upper limit of base flow. For W-3, the upper limit of base flow was reached only one time during the year until the last week of September when 8.62 inches of rain used up the available soil storage during the month. As usual, for Fla. W-1, wasted artesian irrigation water dampened any influence that areal or time distribution of rainfall would have had on runoff.

Table 2 gives a summary of the annual precipitation, runoff, and ET as estimated from the P - R values corrected for basin storage.

A comparison of the rainfall, runoff, and P-R, figures for W-2, W-3, and W-4 shows a low value for P-R for W-4, while the runoff is disproportionately high in view of the smaller amount of rainfall. This is explained by the 7.91 inches of irrigation water which contributed both to ET (P-R) and runoff-- in what proportions is not known at this time.

Figures 7, 8, 9, and 10 demonstrate the double mass plotting technique for finding gross changes in the runoff-rainfall relations of the four experimental watersheds. In plotting runoff against causative rainfall, accumulatively, in figures 8 and 9 (Fla. W-2 and W-3) it is apparent that the overall graphic mean line would take the course giving a mean r/p ratio of 32% for W-2 Watershed, and 27% for W-3. Wet years and drought years have caused abrupt deviations; but as the years of record increase, the ratio approaches a straight line relation. In Figure 10 (Monreve Ranch, W-4) the period of record is short, and drought years coupled with pumped irrigation have influenced the ratio to the extent that no characteristic alignment can be detected.

In Figure 7 (Indian River Farms Drainage District, Fla. W-1) the straight line ratio of 43% was maintained from 1951 until 1959, when an increase in the runoff ratio began to be apparent. The graphic mean line of this ratio from 1959 through 1964 has assumed an alignment of 55%.

This change is apparently due to urban development beginning in 1958 and expanding rapidly, and the installation of many new artesian wells which are allowed to run continuously for decorative waterfalls and artificial ponds and lakes.

Figures 11 and 12 are flow-duration curves for W-2 and W-3 which have been computed from daily mean flows from 1955 through 1962 for both watersheds.

Summary:

- l. Data from Watersheds W-1, W-2, and W-3 were analyzed to determine the suitability of the Cypress Creek Formula (Q = C M 5/6) for drainage design, and to develop a method for selecting values of the coefficient C according to probable flood recurrence frequency. The formula appears to be suitable for estimating required drainage capacity in the flat-woods areas of the Southeast if appropriate values of the coefficient C are applied. C values were found to be related to rainfall excess by the regression equation C = $16.24 + 14.75 \times 14.75 \times$
- 2. Urban development and increased use of artesian water for irrigation in the Indian River Farms Drainage District since 1958 has changed the mean ratio of runoff to rainfall from 43% to 55%. This ratio has remained fairly consistent at 32% and 27% for Upper Taylor Creek Watershed W-2 and W-3.

Time distribution of rainfall in 1963 caused record lows on runoff from both W-2 and W-3 Watersheds with no interflow or surface runoff from W-2, and only negligible amounts from W-3.

Pumped irrigation water caused a distortion in runoff and P - R values when compared to rainfall for drought year 1963 on Watershed W-4.

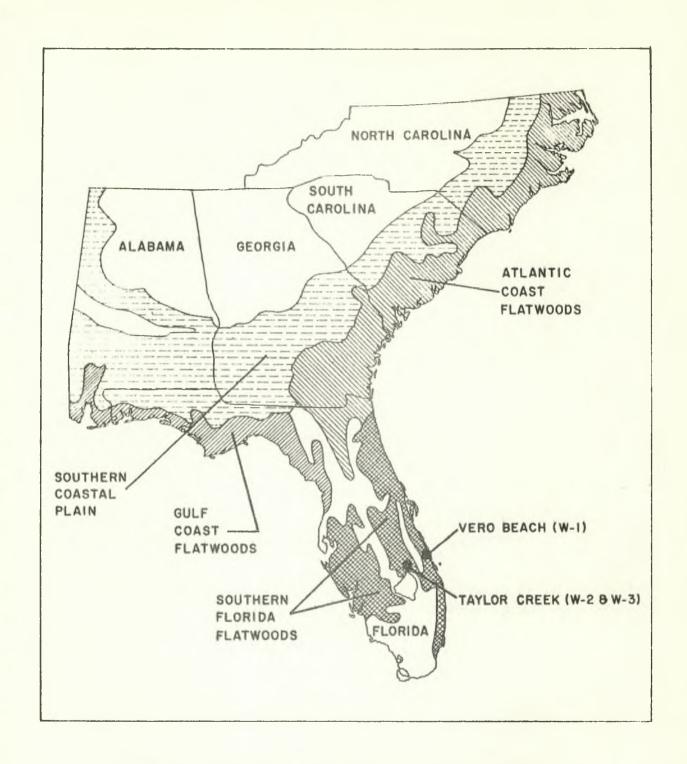
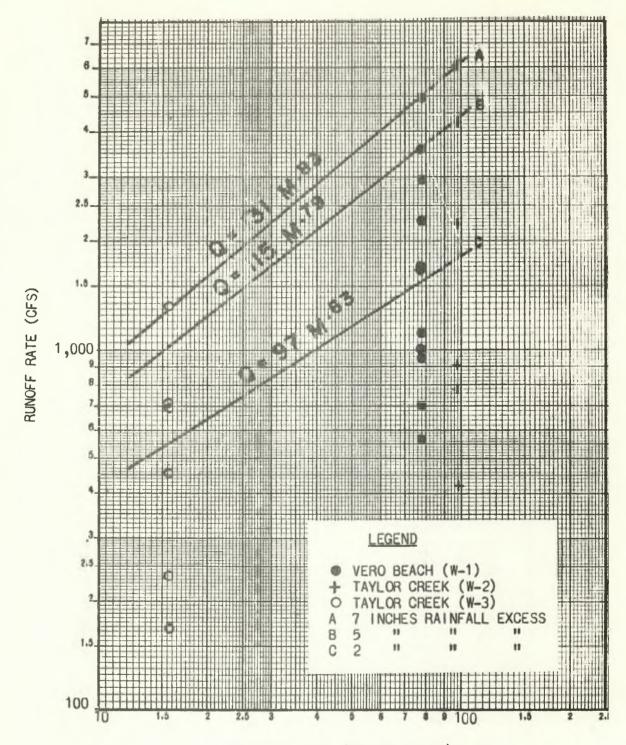


FIGURE 1. LOCATION OF EXPERIMENTAL WATERSHEDS IN RELATION TO ASSOCIATED MAJOR LAND RESOURCE AREAS.



DRAINAGE AREA (SQUARE MILES)

FIGURE 2. RELATION OF ANNUAL PEAK 24-HOUR RUNOFF RATE TO DRAINAGE AREA FOR THREE EXPERIMENTAL WATERSHEDS IN SOUTH FLORIDA.

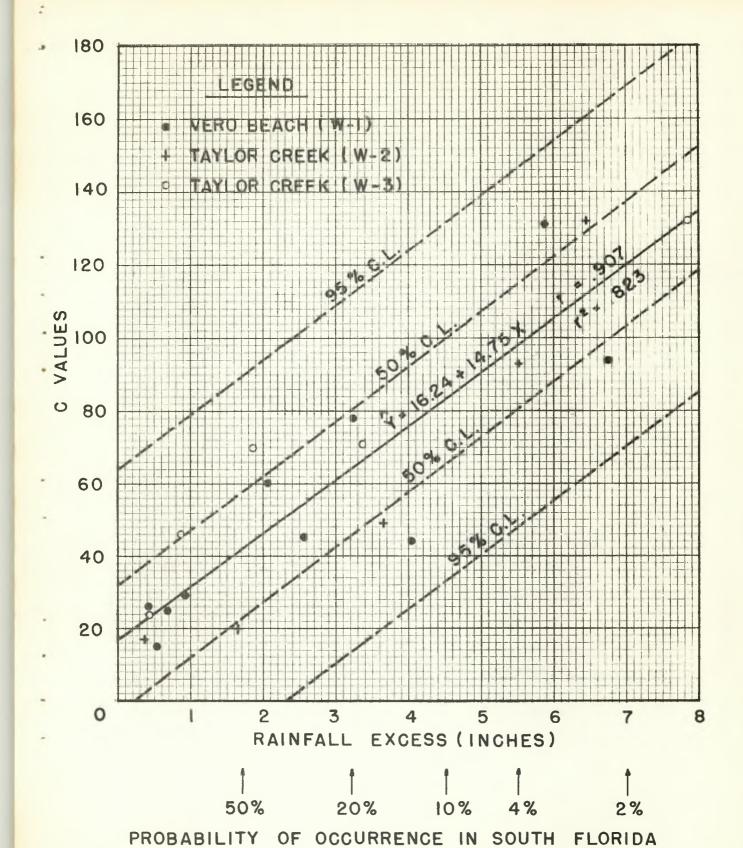


FIGURE 3. VALUES OF C, IN THE CYPRESS CREEK FORMULA

Q = CM⁵/6, VERSUS RAINFALL EXCESS FOR THREE

EXPERIMENTAL WATERSHEDS IN SOUTH FLORIDA.

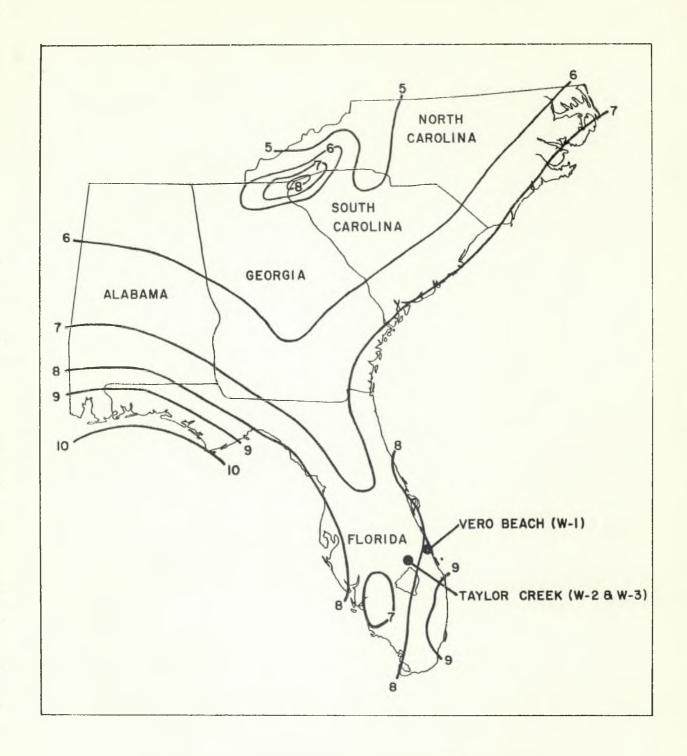


FIGURE 4. MAXIMUM 24-HOUR RAINFALL AMOUNTS (INCHES)
FOR EXPECTED 10 YEAR RECURRENCE INTERVAL.

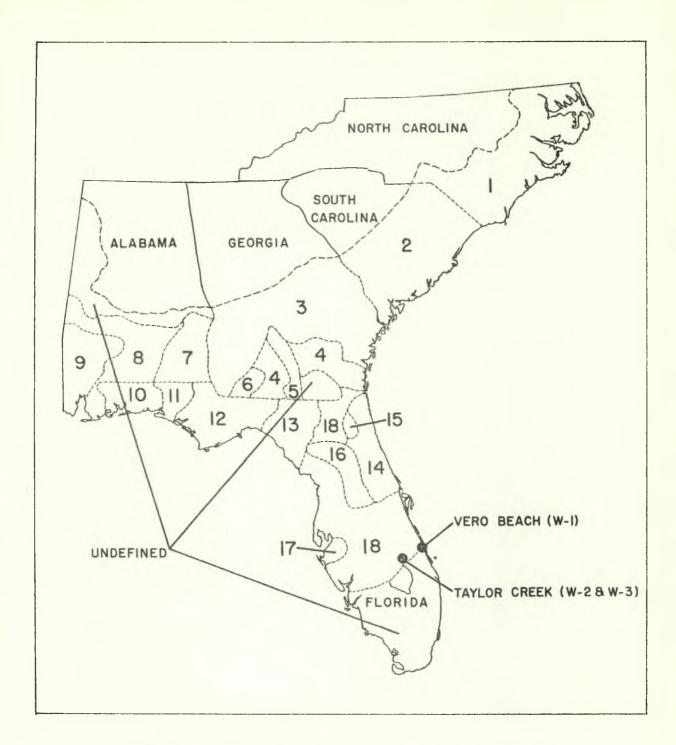


FIGURE 5. HYDROLOGIC AREAS AS DESIGNATED BY USGS ACCORDING TO COMMON FLOOD CHARACTERISTICS.

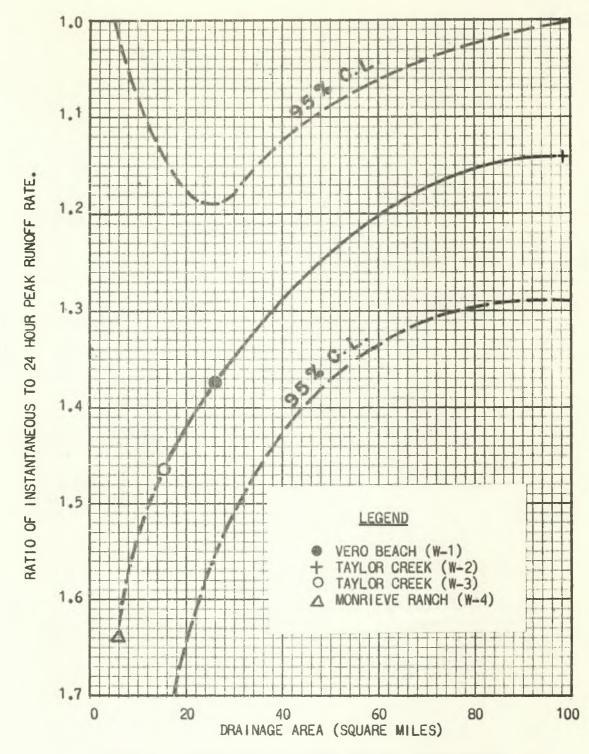


FIGURE 6. COMPARISON OF ANNUAL MAXIMUM INSTANTANEOUS TO 24 HOUR PEAK RUNOFF RATES IN RELATION TO DRAINAGE AREA FOR FOUR EXPERIMENTAL WATERSHEDS IN SOUTH FLORIDA.

Table 1. Peak flow rates in cfs as computed by USGS Regional Flood Frequency Method for 100-square-mile watershed

| Hydrologic | | urrence Inte | |
|------------|--------------------|----------------|----------------|
| Areas* | Q2.33 (2.33 yr) | Q10 (10 yr) | Q25 (25 yr) |
| 1 | 800 | 1,560 | 2,140 |
| 2 | 830 | 1,580 | 1,780 |
| 3 | 1,170 | 2,620 | 3,010 |
| 14 | 1,170 | 2,800 | 3,910 |
| 5 | 1,370 | 3,270 | 4,560 |
| 6 | 2,800 | 6,690 | 9,352 |
| 7 | 2,340 | 5,030 | 6,460 |
| 8 | 3,100 | 6,660 | 8,560 |
| 9 | 5,000 | 10,750 | 13,800 |
| 10 | 3,400 | 7,515 | 10,370 |
| 11 | 2,620 | 5,790 | 8,000 |
| 12 | 1,320 | 2,920 | 4,020 |
| 13 | 1,000 | 2,210 | 3,050 |
| 14 | 1,900 | 3,225 | 4,180 |
| 15 | 3,700 | 6,480 | 8,140 |
| 16 | 1,200 | 2,100 | 2,640 |
| 17 | 3,700 | 8,180 | 11,280 |
| 18 | 1,900 | 4,200 | 5,800 |

^{*} See Figure 5.

Table 2. Comparison of maximum flood flows computed by the Cypress Creek approach and the regional flood frequency method for selected hydrologic areas in Florida and North Carolina for a 100-square-mile watershed

| | Hyd | South Fl drologic A | | Ну | Northwest drologic Ar | | | North Carolina Hydrologic Area No. <u>1</u> | | | | | |
|-------------------|--------------------------------------|------------------------|------|----------------|--------------------------|------------|-----------------|--|--------------|-----------|-----|----------------|--|
| | : | | : | Ratio of | : | | : | Ratio of | : : Ratio of | | | | |
| Recur- | Cypress: Regional : Cypress Creek to | | | Cypress: | Regional | : C | ypress Creek to | Cypress: Regional : Cypress Creek to | | | | | |
| rence- | Creek: | Flood Fre | -: B | Regional Flood | Creek: | Flood Fre- | :] | Regional Flood | Creek: | Flood Fro | 2~: | Regional Flood | |
| Interval | x 1.14: | quency | : | Frequency | x 1.14: | quency | : | Frequency | x 1.14: | quency | : | Frequency | |
| | cfs : | cfs | : | | cfs : | cfs | : | | cfs : | cfs | : | | |
| | : | | : | _ | : | | : | | : | | : | | |
| Q _{2.33} | 2,330: | 1,900 | : | 1.23 | 3,230: | 3,400 | : | 0.95 | 1,580 : | 800 | : | 1.98 | |
| Q ₁₀ | 4,390 : | 4,200 | : | 1.05 | 6,020 : | 7,520 | : | .80 | 3,230: | 1,560 | : | 2.07 | |
| Q ₂₅ | 5,190 : | 5,800 | : | .90 | 7,250 | 10,370 | : | .70 | 4,020 : | 2,140 | : | 1.88 | |

TABLE I

| * | 1951 | 1952 | 1953 | 195 | 195 | 5 | 1956 | | 1957 | , | 1958 | 3 | 1959 |) | 1960 |) | 1961 | L | 1962 | 2 | 196 | 3 |
|--------|----------|----------|-------------------------------------|-----------|-------------|-----|-------|-----|--------|-----|----------|-----|---------------|-----|--------|-----|-------|-----|-------|-----|----------|-----|
| A | | | | % (in) | % (in) | | (in) | | (in) | | (in) | | (in) | | (in) | | (in) | | (in) | | <u>`</u> | % |
| 1 | | 1 ' | 86 19.78 | | 77 17.22 | | 13.30 | | | | | | 2 2.18 | | | | 17.00 | | 24.43 | 94 | | ** |
| 2 | | 1.32 | 7 2.68 | 11 3.42 | | | | | | 10 | •96 | 5 | 2.50 | | 5.30 | 12 | | | 0.89 | 심 | | |
| 2 m | | 1.36 | $\frac{7}{00}$ $\frac{1.56}{31.03}$ | | 100 19.41 | | 1.45 | | | 100 | | 100 | 3.17 | | | | | | 0.50 | 100 | | |
| 1 | 9.55 100 | 19.40 1 | 00 24.02 | 100 50.21 | . 100 19.41 | 100 | 15.50 | 100 | 21.12 | 100 | 19.05 | 100 | 2/009 | 100 | tht•€0 | 100 | 17.00 | 100 | 27.92 | 100 | | |
| | | | | | | 1 | | l | | | | | | | | | | | | | | |
| В | | | | | l | | | į | | | | | | | | | | | | | | |
| 1 | | 1 | | | | | 4.31 | | | | | | 11.14 | | | | 3.34 | | 10.74 | 63 | 2.04 | 100 |
| 2 | | | | | | | | | | | | | 4-35 | | | | | | | - | 0 | 0 |
| 3 | | | | | 1 | | | 0 | | | | 0 | | | | | | | 0.14 | | 0 | 0 |
| T | | | | | l | | 4.38 | 100 | 29.98 | 100 | 12.43 | 100 | 19.56 | 100 | 33.81 | 100 | 4.88 | 100 | 16.97 | 100 | 2.04 | 100 |
| | | | | | | | | 1 | | | | | | | | | | | | | | |
| C | | | | | 1 | | | | | | | | ļ | | | | | | | | | |
| 1 | | | | | 1 | | 2.1/1 | 1,7 | 5.67 | 25 | 5.36 | 5/1 | 3-87 | 33 | 1,.77 | 15 | 1.3/ | 63 | 3.26 | 23 | 1.37 | 63 |
| 2 | | | | | i | | 1.93 | | 4.66 | | 3.19 | 33 | 2.52 | 22 | 10.70 | 33 | 0.78 | | | 40 | - 1 | |
| 3 | | | | 1 | 1 | | 1.11 | 22 | 12.12 | 54 | 1.30 | 13 | 5-19 | 45 | 16.54 | 52 | 0.00 | 0 | 5.22 | 37 | 0.20 | |
| T | | | | | | | 5.18 | 100 | 22.145 | 100 | 9.85 | 100 | 11.58 | 100 | 32.01 | 100 | 2.12 | 100 | 14.16 | 100 | 2.16 | 100 |
| | | <u> </u> | <u> </u> | [| | | | | | | <u> </u> | | 1 | | 1 | | | | 1 | | | |

A - Indian River Farms D.D. FLA Wl

1 Base Flow (less than 350 CFS)

2 Interflow (350 to 670 CFS)

3 Overland Flow (over 670 CFS)

B - Upper Taylor Creek Watershed FLA W2

1 Base Flow (less than 333 CFS)

2 Interflow (333 to 1100 CFS)

3 Overland Flow (Over 1100 CFS)

C - Upper Taylor Creek Watershed FLA W3

1 Base Flow (less than 15 CFS)

2 Interflow (15 - 65 CFS)

3 Overland Flow (over 65 CFS)

T - Total Runoff

**

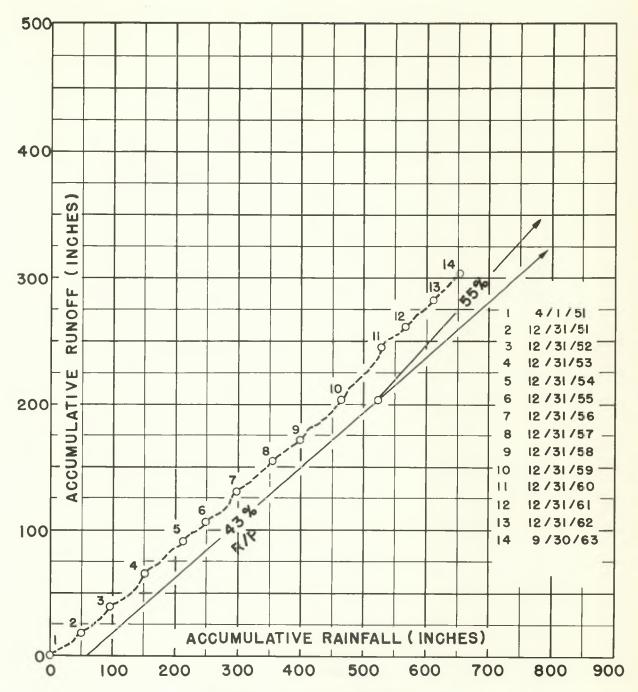
Provisional data only.

TABLE II

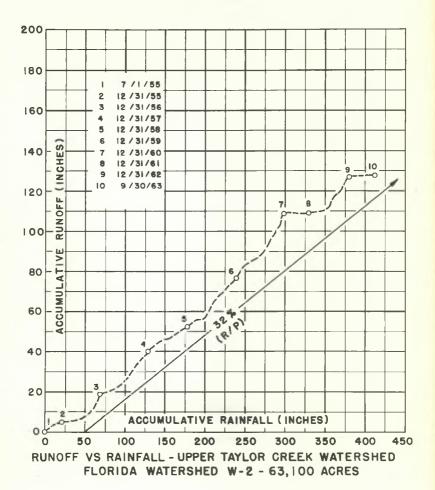
| Water Year | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 | 1961 | 1962 | 1963 | |
|---|---------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|---------------------------------|---------------------------------|-------------|---------------------------------|----------------------------------|----------------------------------|------------------------|--|
| | Indian River Farms D.D (W1) | | | | | | | | | | | | |
| A B C D | 48.03 19.40 29.13 7.37 | 51.78 24.02 28.16 8.44 | 63.11 30.21 33.50 3.00 | 45.75 19.41 26.74 9.76 | 38.32 15.58 22.55 13.95 | 63.63 31.13 32.00 4.50 | 46.29 19.63 27.36 9.14 | | 73.12 44.20 26.74 9.76 | 35.11 17.86 18.61 17.89 | 44.09 25.92 18.17 18.33 | * | |
| | | | | | Upper 1 | aylor (| reek (W | ī2) | | | | | |
| A B C | | | | | 41.12 4.38 36.41 | 66.98 29.98 36.53 | 49.27 12.43 37.58 | | | 29.90 5.12 26.76 | 51 .68 16 .97 34 .21 | 34.93 2.03 32.90 | |
| Upper Taylor Creek (W3) | | | | | | | | | | | | | |
| A B C | | | | | 40.02 5.18 34.83 | | 50.20 9.85 40.39 | | 72.32 32.03 39.87 | 31.29 2.12 29.64 | 48.06 14.16 33.90 | 38.59 2.17 36.42 | |
| Monreve Ranch (WL) | | | | | | | | | | | | | |
| B 36.03 10.94 14.03 | | | | | | | | | | | 33.27 4.22 29.05 7.91 | | |
| A - Precipitation (inches) B - Runoff (in/A) C - P-r, corrected for storage change D - Est. Artesian inflow (36.5 in. / Est. ET/ minus / P-R/) E - Irrigation (inches) * Provisional data only | | | | | | | | | | | | | |

^{*} Provisional data only.

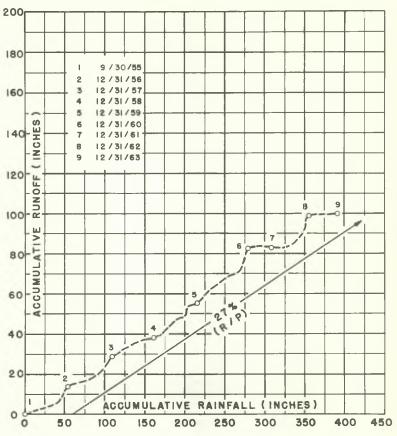
** Base storage curve not yet derived.



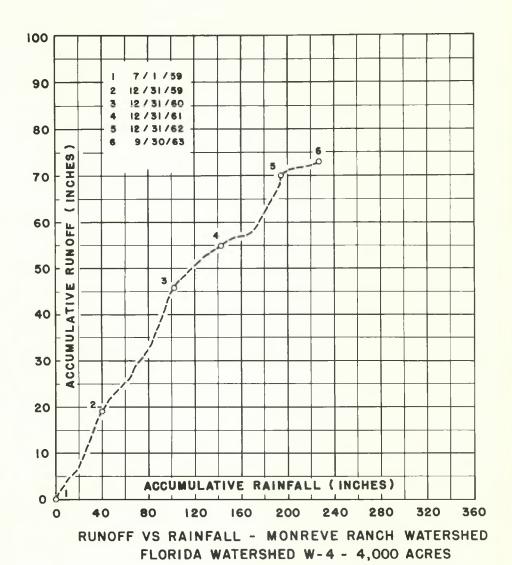
RAINFALL VS RUNOFF INDIAN RIVER FARMS D.D. FLORIDA WATERSHED W-I 49,915 ACRES



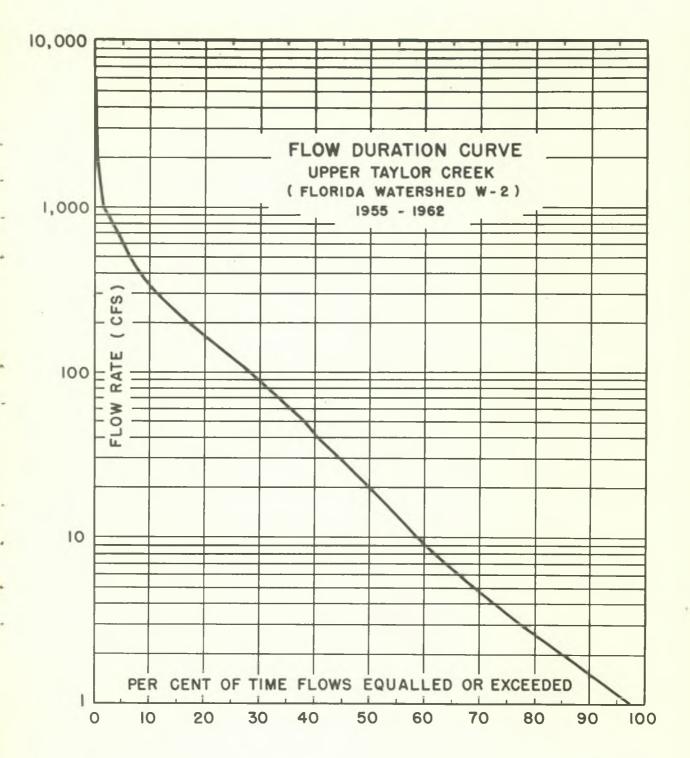
F16.8



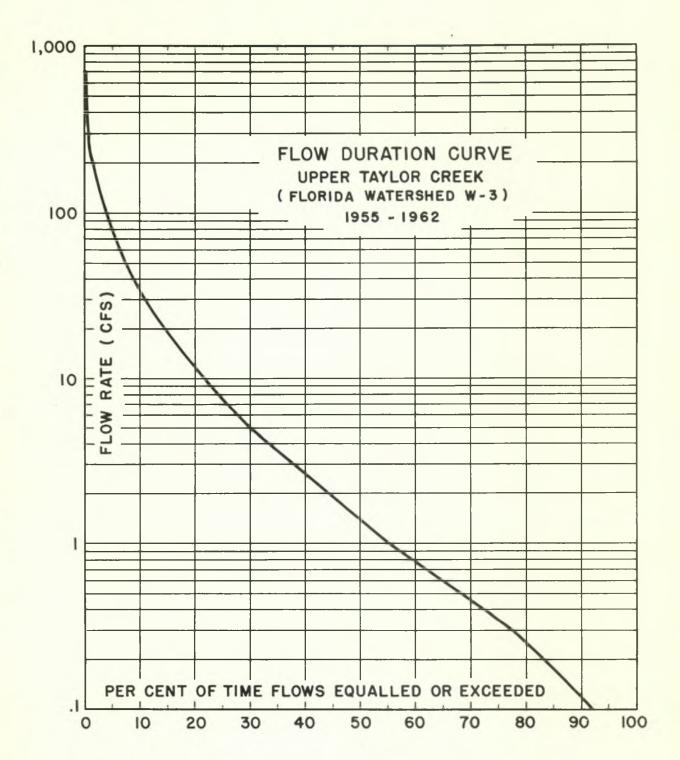
RUNOFF VS RAINFALL - UPPER TAYLOR CREEK WATERSHED FLORIDA WATERSHED W-3 - 10,000 ACRES



F16.10



F16.11



INVESTIGATIONS OF SANDY TROUBLE SPOTS IN DUG WATER CONTROL CHANNELS, FLORIDA

Line Project No.: SWC 1-b4

Code No.: FLA PL-7

Prepared by: William H. Speir

Location of Experiment: Fisheating Creek and Taylor Creek Watershed
Areas of Florida

Personnel Involved:

ARS Sedimentation Lab., Oxford, Miss. - Earl Grissinger, D. A. Parsons, G. Stanford, H. R. Turner, and R. B. Wilson

ARS, SWC, Fort Lauderdale, Fla. - W. H. Speir, E. H. Stewart, W. C. Mills, and J. E. Browning

SCS - J. Luke, Lake Placid, Fla.; S. McCollum, Stuart, Fla.; and E. Vanatta, Sebring, Fla.

Date of Initiation: May 1961

Expected Duration: 3 years

Objectives:

To observe and study the unstable channel bank problems along dug water control channels in the Fisheating Creek Area.

To obtain representative soil samples from the areas and determine various physical and moisture characteristics that may contribute information concerning the unstable conditions.

Need for Study:

Unstable banks of dug water control channels cause considerable trouble in maintaining adequate channels for movement of water in water-shed management and for irrigation and drainage management on farms. Factors contributing to these unstable conditions need to be determined and possible solutions formulated and tested.

Experimental Data and Observations:

Two lines of groundwater observation wells were established in October, 1961, at selected points along Taylor Creek in the watershed area north of Okeechobee, Fla. One is located upstream (Well Line "A") from Potter Road in a channel reach where evidence exists of sand troubles in old channel dredgings; and one downstream (Well Line "B") in a place where soil auger samples show deep sand with probably enough clay present to make stable channel banks.

The well lines at each site are at right angles to the stream channel with the wells placed 10, 38, 104, 535, and 2000 feet from the stream edge. A continuous water level recorder was installed at Station 70 on well line "A" and at station 535 on well line "B" in June 1962. These locations were selected for the recorder sites after preliminary water—table data indicated they most nearly represent the mean water table for each line of wells.

Water-table data of well lines "A" and "B" from the weekly observations for the year are listed in Table 7, Page 36.

Graphic plottings of water-table depth below ground surface for well lines "A" and "B" are shown in Figure 7, FLA PL-5, Page 51.

Comments and Interpretations:

A comparison of daily mean depths below ground surface from well lines "A" and "B" for water year 1962-63 show that rainfall is uniformly distributed over the area and that rise or fall in the water table reflect the same response to rainfall through the same depths in the soil profile.

Summary:

None to be made at this time.

SUBIRRIGATION OF SOD WITH POROUS TILE

Line Project No.: SWC 5-bl Code No.: FLA PL-8

Location of Experiment: Plantation Field Laboratory, Ft. Lauderdale, Fla.

Personnel Involved: ARS - E. H. Stewart, J. R. Carreker, and J. H. Howerton, Jr.

Fla. Agr. Exp. Station - E. O. Burt and F. T. Boyd

Date of Initiation: October 1961

Expected Duration: 3 years

Objectives:

To determine:

- 1. Effectiveness of porous tile for subirrigation of sod crops (Tifway bermudagrass) in comparison to sprinkler and water-table irrigation;
- 2. Water consumption of each of four methods of installation of porous tile in sandy soils;
- 3. Water flow characteristics of porous tile as affected by water quality.

Need for Study: See 1962 Annual Report

Experimental Design and Procedure: See 1962 Annual Report

Experimental Data and Observations:

Table 1 shows the average monthly irrigation flow rate of the porous tile by monthly periods and placement of the tile.

Figure 1 and 2 present graphic data on the flow rate of the porous tile as influenced by various tile treatments and quality of the irrigation water.

Comments and Interpretations:

The subirrigation flow rate of the installed porous tile has decreased very slowly but continuously during the year except when treated to increase the flow as indicated in Table 1. In January the irrigation lines were treated with sulfur dioxide gas and allowed to stand for 48 hours, after which the lines were flushed and put back into operation. This resulted in an average flow increase of about 73 percent to a flow rate of about 0.045 in. per day. Although a definite improvement, this still was not adequate to meet the water requirements of the bermudagrass. Laboratory tests were then undertaken in an attempt to determine the nature of the trouble and possible solutions. Four representative tiles were selected that had initial flow rates ranging from 0.32 to 3.96 inches per day with distilled water at a 24-inch head. These tiles were soaked and left submerged in the distilled water for 3 days and then rechecked and found to have increased in flow rate by 50 percent. This indicated that the decreased flow experienced with the installed tile was not associated with relatively pure water. However, when these same tiles

were tested with tapwater from the laboratory the flow rate dropped about 70 percent within 24 hours and leveled off at about 0.08 in. per day within three weeks.

Another approach was tried whereby a porous tile was used as a pre-filter under regular tapwater pressure of 40 to 70 psi. This failed to increase the flow rate in the test tiles indicating the pre-filter was ineffective. In fact, the tile under tapwater pressure clogged in a short time and failed to supply sufficient water to the irrigation system.

The raw materials that are used in the manufacture of the porous tiles tested are silica sand, talc (soapstone), bentonite and wood flour. Water mixtures of these materials (2.5 to 1.0) had the following Ph readings: wood flour, 4.8; silica sand, 6.9; bentonite, 8.5; and talc, 9.5. Distilled water passing through the tiles was found to have a pH well over 9.0 after 10 days of continuous running. Undoubtedly the talc and bentonite was contributing to the high pH condition. Since the water used in the irrigation system is highly mineralized it is likely that chemical precipitation occurs in the tiles under the high alkaline condition that existed. Such a condition may have been one of the contributing factors causing the reduced flow rates.

A laboratory study was made to determine the effect of acid treating the tiles before hand, as well as lowering the pH of the source water, on the flow rate. Figure 1 presents graphic data of the results. Pretreatment of the tiles with dilute nitric acid (3-normal) greatly increased the initial flow rates but within 17 days the flow rate was essentially the same as the untreated tile, N-10 vs N-1 and N-2. Adjusting the pH of the source water from slightly alkaline to 4.0 result—in maintaining the tile flow rate approximately 0.10 in. higher than that from the untreated water, N-11 vs N-1 and N-2, Figure 1. However, a slow decrease in flow rate was indicated over a period of six weeks for both systems.

A second set of tiles was used to determine the effect of lowering the pH of the irrigation water to pH 2.0 on maintaining flow as well as clearing up the clogged tiles after the rate had dropped to an undesirable level. Figure 2 shows the results of this test. It appears that the flow rate of the water can be maintained at a desirable level by adjusting the pH to 2.0. Also, a significant increase in flow rate was obtained by adjusting the pH of the water to 2.0 after the flow rate had dropped to about 0.07 in. per day. The flow rate was increased to about 0.15 in. per day which would meet the moisture requirements of the bermudagrass most of the time. However, when this procedure was used on the installed tile system the flow rate was not increased adequately. The problem of getting the installed porous tile line flowing adequately still has not been solved. Further efforts will be made to find a practical method of correcting this situation. In the meantime, to avoid future problems of this nature it may be more practical to explore the possibility of making the porous tile with some other type material that will not have these undesirable characteristic features.

Summary:

- 1. Flow rate of porous tile installed for subirrigation of Tifway bermudagrass continued to decrease slowly during the year.
- 2. Treating the porous tile with sulfur dioxide gas and dilute nitric acid increased the flow rate significantly but not sufficiently under field conditions to meet the moisture needs of the bermudagrass.
- 3. Laboratory trials showed some success with maintaining tile flow rate by lowering the pH of the irrigation water.

Table 1. Irrigation flow rate of porous tile placed over various materials in sandy soil

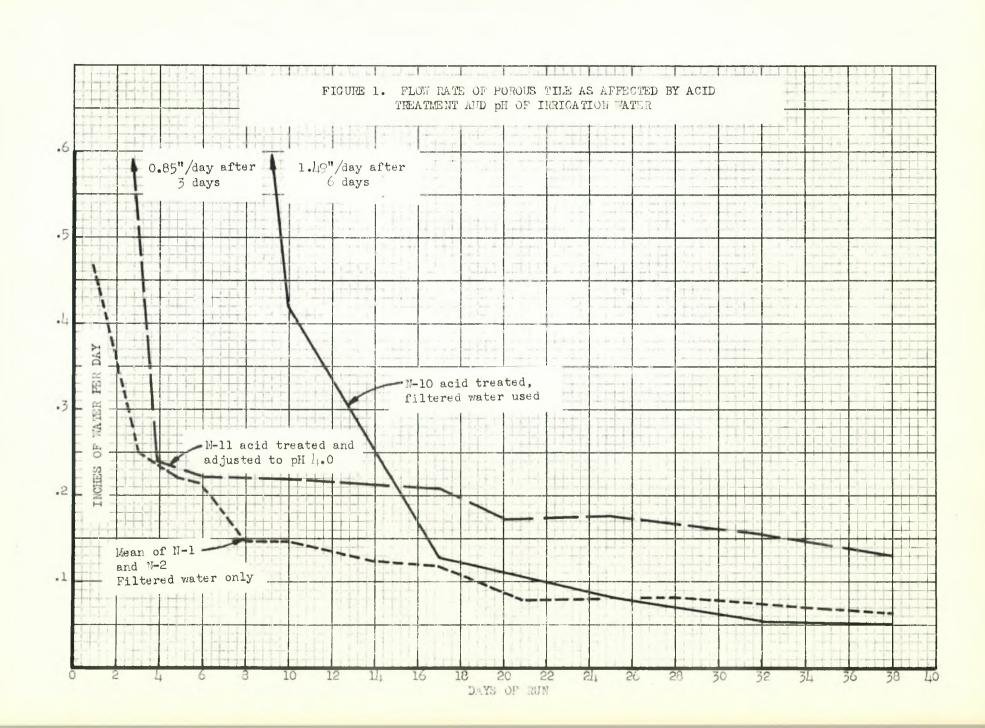
| Flow period | | Place | ment of t | ile 1/ | |
|--|---|---|---|---|---|
| mon th | Organic | Sandy | Pea | Plastic | |
| | soil | soil | soil | sheeting | Average |
| break desired and the control of the | | Inc | hes per d | ay | |
| Jan. 1-18 Jan. 21-31 February March April May June July August September October November December | 0.025 .0402/ .040 .039 .037 .035 .033 .032 .032 .028 .028 | 0.023 .0522/ .049 .046 .041 .040 .038 .037 .035 .033 .031 | 0.027 .01462/ .0147 .0148 .0146 .0147 .0143 .0613/ .066 .060 | 0.029 .01432/ .0143 .0142 .0142 .036 .0140 .039 .038 .037 .0314 .031 | 0.026 .045 .045 .044 .042 .039 .040 .038 .036 .033 .032 .027 |

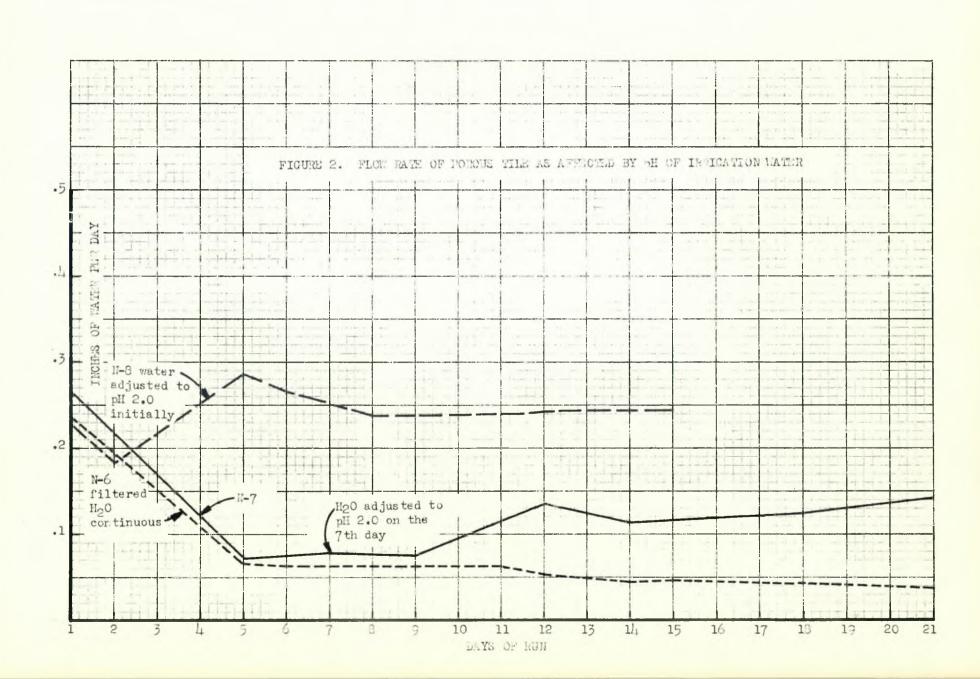
^{1/} Tile placed 36 inches apart on centers and 10 inches below the soil surface. Organic soil, pea gravel, and plastic sheeting placed under tile in bands 18 inches wide for the full length of the plot. Organic soil and pea gravel are 3 inches in depth.

^{2/} Tile system treated with sulfur dioxide gas.

^{3/} Tile system treated with dilute nitric acid.

^{4/} Average from August through December does not include the third column.





STRONTIUM-90 ACCUMULATION ON PLANT FOLIAGE FROM DRY FALLOUT AND RAINFALL

Line Project No.: SWC 11-b4

Code No.: FLA PL-9

Prepared by: Ernest H. Stewart

Location of Experiment: Everglades Experiment Station, Belle Glade, Fla.

Personnel Involved:

ARS - Ronald G. Menzel, Ernest H. Stewart, and J. H. Howerton, Jr. Fla. Agr. Exp. Station - Victor Guzman and F. T. Boyd

Date or Duration of Experiment: Expected duration 1 year.

Objectives:

To study the accumulation of strontium-90 on plant foliage in order to determine the magnitude of direct contamination from fallout during dry weather and during rainy weather.

Need for Study: See the 1962 Annual Report.

Experimental Design and Procedure: See the 1962 Annual Report.

Experimental Data and Observations:

No data are to be presented in this report. The results were published and the experiment terminated in 1963. See the publication list in this report for source of publication.

Comments and Interpretations:

In way of a brief summary, accumulation of strontium-90 in field-grown crops was measured during the spring of 1962, a period with a high rate of fallout. Each rainfall markedly increased the strontium-90 content of the crops, except when they were very small. Accumulation between rains was comparatively small, about equal to the expected uptake from the soil.

Summary:

See comments above.

MISCELLA NEOUS

At the request of Dr. W. T. Forsee, Jr. and Dr. F. T. Boyd of the Florida Agricultural Experiment Station, surveys were made, topography maps were prepared, and a drainage plan proposed for the new 100-acre Field Laboratory site at Forman Field.

At Dr. Forsee's request, space-allocation buildings were planned to meet the desired needs of State and Federal staff members of the Plantation Field Laboratory.

The following four figures are maps of the new experiment station site, and show ground surface contours, rock surface contours, isodepth contours, and a proposed drainage plan. The next two figures are floor-plan layouts of the proposed office building and service building for State and Federal employees now housed at Plantation Field Laboratory.

The next five figures are plans and specifications for construction with operational details of a constant-head multiple-sample permeameter that was designed at this station and has been in use for several years.

The drawings should give enough detail for constructing a similar apparatus. Specifications can be varied to make use of material on hand.

The actual operation is quite simple: with the sandy soils tested locally, the bottom of each 3-inch core sample is covered with cheese cloth to keep the sand from flowing through the supporting screen (#20 in drawing). An empty 3-inch aluminum core container is set on top of each sample and made water-tight with masking tape (#15). Graduated beakers (optional, but preferable) (#19) are then placed under each sample. A small piece of cheese cloth is placed on top of, and in the center of, each sample to prevent washing from the end of the syphon tube. The syphons are then placed in position in the empty cylinders (11, 12, 14) and then primed as described and allowed to run until the flow rate through the samples has reached equilibrium. During this operation the head on each sample (#17) is checked through cut-out (#10) to see that all syphons are functioning properly. Using a stopwatch, each beaker is then emptied and reinserted under each sample at one-minute intervals. After a sufficient time interval (15 minutes for most of the samples) the beakers are then removed in the same order, at one-minute intervals, and the volume of water measured.

GROUND SURFACE CONTOURS (FT. MSL)
PLANTATION FIELD LABORATORY
FORMAN FIELD SITE

SCALE 1" - 100"

SURVEYED AND DRAWN SEPT., 1963 W.H. SPEIR - U.S.D.A., ARS, SWG N 75" 10" 80" W 9544 76"

1 . . .

PLANTATION FIELD LABORATORY
FORMAN FIELD SITE

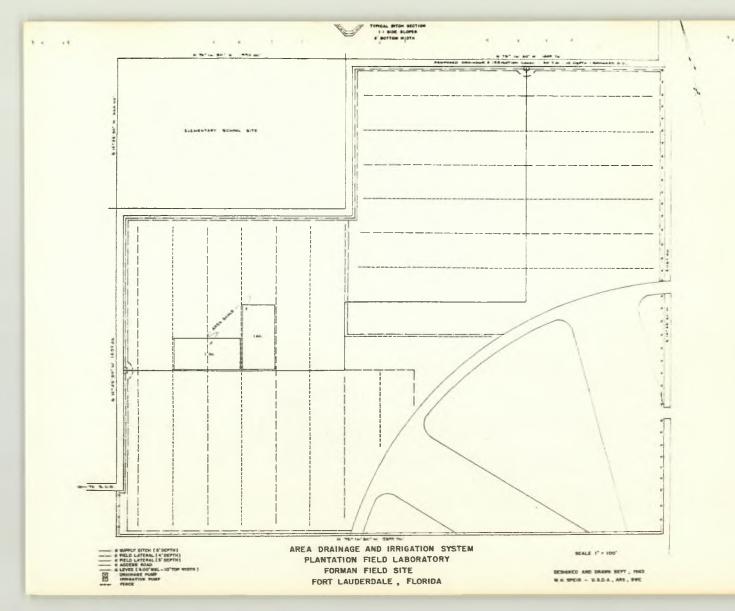
BCALE 1" = 100

BURVEYED AND DRAWN SEPT , 1983 W.H. BPEIR - U.S.D.A., ARS. SWE

1 1 2 1

LINES OF EQUAL SOIL DEPTH TO ROCK
PLANTATION FIELD LABORATORY
FORMAN FIELD SITE

SCALE 1" - 100" DEPTH IN FT. SURVEYED AND DRAWN SEPT , 1963 W.H. SPEIR — U.S.D.A., ARS, SWC

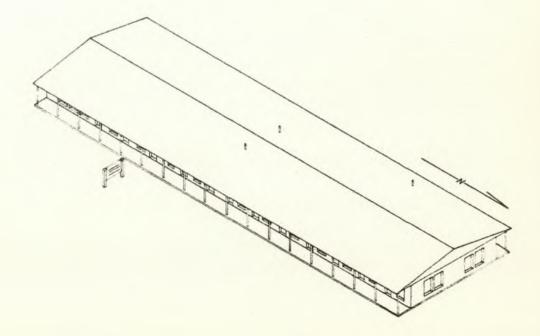


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PROPOSED FLOOR PLAN AND ISOMETRIC VIEW
OF OFFICE AND LABORATORY FACILITIES
FOR PLANTATION FIELD LABORATORY
FORMAN FIELD SITE
FORT LAUDERDALE, FLORIDA

1.4

SEALE PT



THE PLANT STRANGE

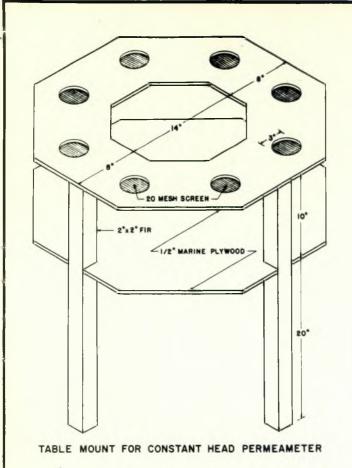
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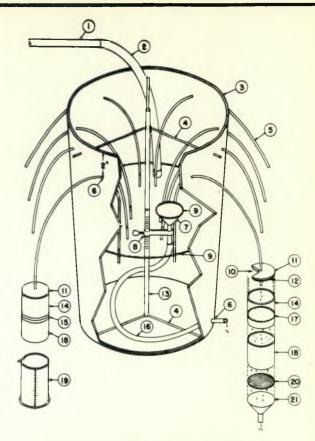
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PROPOSED FLOOR PLAN
FOR SERVICE AND STORAGE BUILDING
PLANTATION FIELD LABORATORY
FORMAN FIELD SITE
FORT LAUDERDALE, FLORIDA

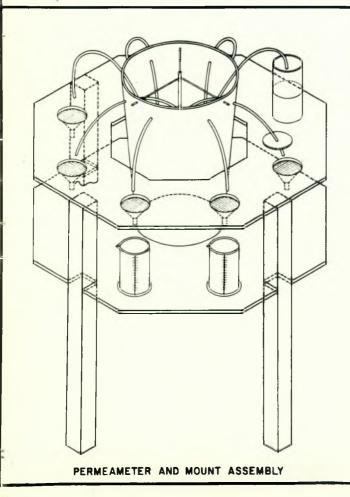
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SCALE - FT





CUTAWAY VIEW OF PERMEAMETER TANK WITH EXPLODED VIEW OF SAMPLE ASSEMBLY



CONSTRUCTION AND OPERATIONAL DETAIL OF CONSTANT-HEAD MULTIPLE-SAMPLE PERMEAMETER

LEGEND :

- 1 REGULATED WATER SOURCE
- 2 1/2" RUBBER HOSE
- 3 PLASTIC CONTAINER 18"HIGH WITH 12"LD TOP AND 9"1.D. BOTTOM (OR EQUIVALENT)
- (4) 1/4" ALUMINUM TUBING
- 5 1/8" I.D. PLASTIC TUBE SYPHONS
- (6) ALL PERFORATIONS SEALED WITH PLASTIC CEMENT
- (7) 4"I.D. ALUMINUM FUNNEL FOR LEVEL OVERFLOW
- (8) METAL CLAMP FOR ADJUSTING CONSTANT HEAD LEVEL
- 9 WATER LEVEL FIXED BY OVERFLOW
- (10) CUT-OUT FOR MEASURING HEAD IN CYLINDER (OPTIONAL)
- 11 1/4" x 3-1/4" PLYWOOD CAP
- (12) 1/4" x 2-7/8" PLYWOOD CYLINDER INSERT
- (13) 1/2" ALUMINUM TUBING
- (14) STANDARD 3"ALUMINUM CYLINDER FOR UHLAND SAMPLER
- (15) 2" MASKING TAPE SEAL
- 16 3/8" OVERFLOW WASTE-WATER RUBBER HOSE
- (17) FIXED HEAD ON SAMPLE
- (8) UNDISTURBED 3" SOIL CORE IN CYLINDER
- (9) GRADUATED BEAKER FOR FLOW DETERMINATION
- 20 20 MESH COPPER SCREEN
- (21) 4" LD. ALUMINUM FUNNEL

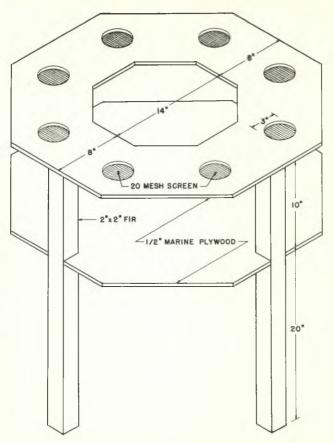
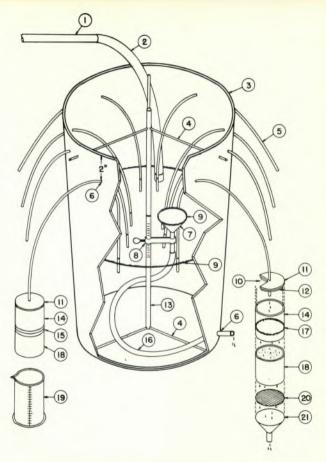
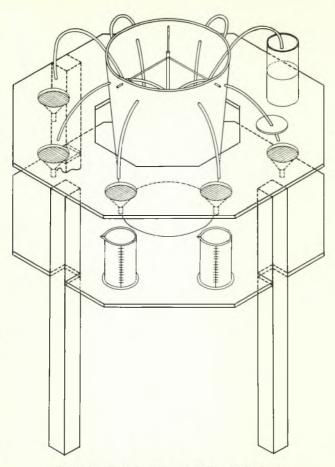


TABLE MOUNT FOR CONSTANT HEAD PERMEAMETER



CUTAWAY VIEW OF PERMEAMETER TANK
WITH EXPLODED VIEW OF SAMPLE ASSEMBLY



PERMEAMETER AND MOUNT ASSEMBLY

CONSTRUCTION AND OPERATIONAL DETAIL OF CONSTANT-HEAD MULTIPLE-SAMPLE PERMEAMETER

LEGEND:

- (I) REGULATED WATER SOURCE
- 2 1/2" RUBBER HOSE
- 3 PLASTIC CONTAINER 18" HIGH WITH 12" I.D. TOP AND 9" I.D. BOTTOM (OR EQUIVALENT)
- (4) 1/4" ALUMINUM TUBING
- (5) 1/8" I.D. PLASTIC TUBE SYPHONS
- 6 ALL PERFORATIONS SEALED WITH PLASTIC CEMENT
- 7 4"I.D. ALUMINUM FUNNEL FOR LEVEL OVERFLOW
- (8) METAL CLAMP FOR ADJUSTING CONSTANT HEAD LEVEL
- 9 WATER LEVEL FIXED BY OVERFLOW
- (IO) CUT-OUT FOR MEASURING HEAD IN CYLINDER (OPTIONAL)
- (II) 1/4" x 3-1/4" PLYWOOD CAP
- (12) 1/4" x 2-7/8" PLYWOOD CYLINDER INSERT
- (13) 1/2" ALUMINUM TUBING
- (14) STANDARD 3"ALUMINUM CYLINDER FOR UHLAND SAMPLER
- (15) 2" MASKING TAPE SEAL
- (16) 3/8" OVERFLOW WASTE WATER RUBBER HOSE
- (17) FIXED HEAD ON SAMPLE
- (18) UNDISTURBED 3" SOIL CORE IN CYLINDER
- (19) GRADUATED BEAKER FOR FLOW DETERMINATION
- (20) 20 MESH COPPER SCREEN
- (21) 4" I.D. ALUMINUM FUNNEL

SUMMATION OF SIGNIFICANT FINDINGS BY LINE PROJECTS

SWC 2-bl

The Cypress Creek formula (Q \equiv C M $^{5/6}$) appears to be suitable for estimating peak 24-hour rates of runoff from various size drainage areas of the 15 to 100 square-mile range in flatwoods areas of the Southeast. The coefficient C in this formula is related to rainfall excess by the empirical equation C \equiv 16.24 \neq 14.75 x Rainfall Excess. Rainfall excess depends upon available soil storage (approximately three inches for experimental watershed area) subtracted from total 24-hour rainfall. Probability of occurrence of various runoff rates can be obtained by considering the foregoing relationships and the occurrence probability of total 24-hour rainfall amounts. (Fla PL-6)

SWC 2-b4

Analysis of the hydrograph for Monreve Ranch, FLA W-4, shows that pumped irrigation during rainfree periods contributes approximately .006 inch to daily runoff by seepage. (Fla PL-5)

Analysis of artesian pressure data from two artesian wells in the Indian River Farms Drainage District, W-1, shows that artesian piezometric surface elevations have declined approximately five feet in the four-year period 1959-1962. (Fla PL-5)

Increased use of artesian water wasted to runoff, and urban development, in the Indian River Farms Drainage District has changed the normal ratio of runoff to rainfall from 43% prior to 1958 to 55% since 1958. (Fla PL-5)

SWC 5-bl

Flow rate of porous tile installed for subirrigation of Tifway bermudagrass continued to decrease slowly during the year. Treating the tile with sulfur dioxide gas or dilute nitric acid increased the flow rate significantly but not sufficiently under field conditions to meet the moisture needs of the bermudagrass. (Fla PL-8)

SWC 6-bl

See page through the rock strata underlying a peaty-muck soil at the Everglades Experiment Station appears to be an important factor affecting water-table control. (Fla PL-2)

Surveys over established subsidence lines on the organic soils of the Florida Everglades in 1963 show that the average rate of subsidence since 1912 has been .0959 ft./yr. (Fla PL-2)

During an extended dry period of 6 weeks evapotranspiration of bermudagrass was about 23 percent less for a 36-inch water table than for a 12-inch water table on an Arsdell fine sandy soil. (Fla PL-1)

SWC 11-b4

Strontium-90 in field-grown crops was markedly increased by each rainfall during the spring of 1962, a period with a high rate of fallout. Accumulation was comparatively small when the plants were very small and between rains in later growth stages. (Fla PL-9)

Summation of Significant Findings by Line Projects, continued

SWC 1-b4

No significant findings to be reported at this time. However, data are still being taken on two well lines. Studies will be re-established after the drainage ditches are constructed on the Taylor Creek Watershed.

PUBLICATIONS

Technical papers and research reports published or prepared for publication by personnel of the Everglades Project, Soil and Water Conservation Research Division, So. Branch, Agricultural Research Service - 1963.

Published

- Menzel, Ronald G., Howard Roberts, Jr., Ernest H. Stewart, and Arnold J. MacKenzie. Strontium-90 Accumulation on Plant Foliage During Rainfall. Science. Vol. 142, No. 3592. Pp. 576-577. Nov. 1, 1963.
- Speir, William H. Installation and Operation of Non-Weighing Lysimeters.
 Soil and Crop Science Society of Florida Proceedings, Volume 22.
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- Stephens, John C. I. Resources . . . 2. Water, a. Ground Water;
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 Progress by Design, Diamond Jubilee Anniversary edition of Sunshine
 State Agricultural Research Report, Vol. 8, No. 1, March 1963.
- Stephens, J. C., R. D. Blackburn, D. E. Seaman, and L. W. Weldon. Flow Retardance by Channel Weeds and Their Control. Proc. Paper 3550. Irrigation and Drainage Div., American Society of Civil Engineers Journal, Vol. 89, No. IR 2, Pp. 31-53. June 1963.
- Stephens, John C., and Ernest H. Stewart. A Comparison of Procedures for Computing Evaporation and Evapotranspiration. Publication No. 62 of the I.A.S.A. Comm. for Evaporation, Transactions of IUGG, Pp. 123-133. Fla. Agr. Exp. Sta. Journal Series No. 1664. August 1963.
- Stewart, Ernest H., David P. Powell, and Luther C. Hammond. Moisture Characteristics of Some Representative Soils of Florida. ARS 41-63. April 1963.
- Annual Progress Report. E. H. Stewart, W. H. Speir, and W. C. Mills. Multilithed (100 copies) for limited distribution. 1962.

Approved for Publication

- Menzel, Ronald G., Howard Roberts, Jr., Ernest H. Stewart, and Arnold J. MacKenzis. ABSTRACT, Strontium-90 Accumulation on Plant Foliage During Rainfall, as published in Science, Nov. 1963. Modern Medicine, The Journal of Diagnosis and Treatment. U.S. and Foreign Editions. 65th at Valley View Rd., Southdale Park, Minneapolis 24, Minn.
- Bardsley, C. E., Suman, R. F., and Stewart, E. H. The Sulfur Status of South Carolina Crops and Soils. Approved for publication, Div., Oct. 15, 1963, S.C. Exp. Sta. Tech. Bul.

Approved for Presentation

Stephens, J. C., and W. C. Mills. Use of the Cypress Creek Formula to Estimate Runoff in the Southern Coastal Flatwoods. ASAE Winter Meeting, Chicago, Ill. Dec. 11, 1963.

In Preparation

- Carreker, J. R., O. L. Bennett, B. D. Doss, J. O. Sanford, G. N. Sparrow, E. H. Stewart, and R. E. Williamson. Evapotranspiration from Crops in the Southeast. USDA Bulletin.
- Speir, William H., and Ernest H. Stewart. Meisture Tension and Hydraulic Conductivity Measuring Apparatus. "Instrument News" type release, ASAE Journal, or similar publication.
- Speir, William H., John C. Stephens, and Wm. C. Mills. The Hydrology of Two Florida Watersheds; a Progress Report, Oct. 1, 1955 thru Sept. 30, 1962. ARS-41 Series.

APPENDIX

- Part I Monthly Hydrologic Data, Indian River Farms Drainage District (W-1), 10/1/62 9/30/63.
- Part II Monthly Hydrologic Data, Upper Taylor Creek (W-2), Upper Taylor Creek (W-3), 10/1/62 - 9/30/63.
- Part III Monthly Hydrologic Data, Monreve Ranch (W-14), 10/1/62 9/30/63.
- Part IV Monthly Hydrologic Data, Plantation Field Laboratory 1963.
 - Division 1 Rainfall, Air Temperature, Wind, Relative Humidity
 - Division 2 Solar Radiation, Standard Pan Evaporation, Water Temperature
 - Division 3 Evapotranspiration of Tifway Bermudagrass at 12-, 18-, 24-, and 36-inch depth 12/14/62 12/31/63
- Part V Monthly Hydrologic Data, Everglades Experiment Station 1963.
 - Division 1 Rainfall, Air Temperature, Wind
 - Division 2 Standard Pan and Land Tank Evaporation
- Part VI Daily Mean Ground Water Stage Upper Taylor Creek Watershed (W-2), (W-3)

PART I

Monthly Hydrologic Data

Indian River Farms Drainage District (W-1)

10/1/62 - 9/30/63

U.S.D.A - AGRICULTURAL RESEARCH SERVICE - FORT LAUDERDALE, FLORIDA COOPERATING WITH

CENTRAL AND SOUTHERN FLORIDA FLOOD CONTROL DISTRICT & UNIVERSITY OF FLORIDA, AGRICULTURAL EXPERIMENT STATION

HEVISED JAM, 1856 MONTHLY HYDROLOGIC DATA INDIAN RIVER FARMS DRAINAGE DISTRICT

FLORIDA WATERSHED W- | *NOTE: Runoff data provisional only. RAINFALL DISCHARGE DATE STAGE MONTH SOUTH TOTAL TOTAL PAN MORTH MEASURED RAINFALL WEIGHTED RAINFALL TOTAL MAIN HORTH SOUTH MAIN RELIEF RELIEF DISCHARGE DISCHARGE EVAP WEIGHTED CANAL RELIEF BELIEF CANAL 19G2 CANAL (Q±.00047) RAINFALL DANAL CANAL CANAL GAGE 2 3 4 A 0 0 14% 16% 26% 19% 25% IN. OVER INCHES 30 .21 04.03 0.07 003 ,03 10 10 06 03 07 04 0.20 .35 .10 .35 -15 99906999997 0.04 .05 ,05 ,05 ,05 01.01.01.01 22 23 07.14 11 20.16 01.02.03.04.04 0.19 DANCE 10 .01 TOTAL A2 75 A1 60 31 06 12 11 12 08 0 99 (.50) DATE RAINFALL Т STAGE Т DISCHARGE

| OV HONTH YEAR | М | | RED F | RAINF | ALL | " | EIGHT | ED R | | LL | TOTAL WEIGHTED RAINFALL | MAIN CANAL | NORTH RELIEF CANAL | SOUTH RELIEF CANAL | MAIN | NORTH RELIEF CANAL | SOUTH RELIEF CANAL | TOTAL DISCHARGE | TOTAL DISCHARGE [Qx.00047] | PAN EVAP. |
|---------------------|-----|--------|------------|-------|-----|-----|-------|-------|-----|----------|-------------------------------|---------------|--------------------------|--------------------------|----------|--------------------------|--------------------------|--|----------------------------------|--------------|
| | P | 2 A | C | 0 | R | 14% | 16% | 26% | 19% | 25% | | | | | | | | | (IN. OVER | |
| | | (1 | NCHE | 3) | | | (1 | NCHES | 1) | | (INCHES) | (FT. | M.S | | | SEC. FT. |) | (SEG. FT.) | DISTRICT) | (INCHE |
| \perp | | | | | | | | | | - | | 9,/2 | 181 | BB 700 | 108 | 15 | 11 | 120 | 056 | 16 |
| 2 | .05 | .02 | .05 | 0.5 | .05 | .01 | | 01 | .01 | 01 | 004 | 921 | 273 272 272 | 3.08 | 108 | 11 | 10 | 124 | .05A | .21 |
| 3 | | 02 | | | | - 7 | .00 | - 1 | | - | 0.00 | 9 19 | 272 | 3 10 | 104 | 10 | 10 | 132 | .055 | -23 |
| 5 | .05 | 02 | 01 | 05 | | .01 | 01 | 01 | 01 | \vdash | 0 04 | 9/24 | 277 | 3.10 | 1/2 | 10 | 10 | 115.6 | 054 | |
| 6 | | | | | | - | _ | | | - | | 853 | 272 | | 33 18 | 10 | 10 11 71 | 510 | .024 | .16 |
| 7 | | .02 | - | | | | .00 | - | - | - | | 892 | 2.69 | 3 1 4 7 | 18 | 89 | 5, | 360 | -517 | .19 |
| 8 | 110 | | 90 | 75 | .90 | .15 | .13 | .23 | .14 | .22 | 087 | 923 10.81 | 277 | 3 14 | 1/1 | 12 | 10 | 133 | .062 | .27 |
| 9 | 145 | 206 | 70 2.30 | 155 | 230 | .20 | .23 | .60 | .29 | .579 | 190 | 10.B1 | 420 | 967 | 524 | 170 | 10 | 944 | 443 | .19 |
| 10 | | | | | | | | | | | | 954 | 250 250 250 261 | 7777 | 193 | 9. | 137 | 415 | .195 | .26 |
| l I | | | | | | _ | | | | | | 845 | 254 | 2.7 | -43 | - Q-4-4-0 | 21 | 70 / | .033 | 1.5 |
| 12 | | | | | | | | | | | | 943 | 2.61 | 275 | 135 | 89 | 18 | 17.2 <u>1</u> 19.7 <u>9</u> 13.1.4 | .080 | 16 |
| 14 | | _ | | - | _ | | | | | _ | | 932 | 262 | 292 | 123 | 57 | 14 | 1777 | . 070 | .15 |
| 15 | | _ | | | - | - | | | | - | _ | 066 | 261 | 38 | 101 | - B.T. | 14 | 980 | ,0:76 | 22 |
| 15 | - | | | | - | - | _ | | | - | | 999 | 258 | 20% | 51 | 74 | | 714 | .034 | 112 |
| 17 | | | | | | | | | | | | 674 | 258 | 2.55 | 76 51 | 79 | 12 | 71 4 88 4 | 042 | .07 |
| 18 | 1 | .02 | | | - | | 00 | | | | 000 | 9 09 | 258 | 2 84 | 50 | 77 | 17 | 10- 7 | . 651 | .16 |
| 19 | | | | | | | | | | | | 898 | 260 | NAN A | 74 | - 33 | 11 | 930 | 199 | 17 |
| 20 | | | | | | | | | | | | 872 | 2.60 | 2 94 | 35 | | i i | 69.0 | 0.70 | 05 |
| 21 | ,05 | 23 | 22 | .05 | 45 | .01 | 01 | .03 | 01 | .01 | 0.07 | 973 | 259 | 282 | 98 | 77 | 10 | 118 | .03/ | 14 |
| 22 | .20 | 30 | .22 | .35 | .05 | 03 | .05 | .06 | 07 | .01 | 022 | 913 | 267 | 283 | 70 | 11 | - 12 | 118 | .055 | 20 |
| 23 | | | | | | | | | | | | 499 | 263 | 2 94 | R- | 95001 | 9.6 | 106 5 | . 6.50 | 28 |
| 24 | | - | - | - | | - | | | | - | | 8.95 | 263 | 2.02 | 70 | 57 | 96 | 500 | 042 | .19 |
| 25 26 | - | | - | - | - | | _ | | | | | 890 | 263 | 2 - 3 | 67 | 83 | 7.6 | 820 | .636 | .19 |
| 27 | - | - | - | - | - | | | - | | - | | 9 42 | 264 | 5 89 | 80 | 36 | 96 | 985 974 | | 23 |
| 28 | | | | | - | | - | - | | | | 901 | 267 | 2 94 | 70 | 37 | 96 | 974 | 096 | 14 |
| 29 | - | | | | | | - | | | - | | 8,0 | 2.67 | 2.00 | 64 | 999 | 25 | 57 3 | .076 | .20 |
| 30 | | .01 | | | - | | 00 | | | | 0.00 | 893 | 2.66 | 2 3- | GA | 37 | 25 | 89.9 | . 0-10 | 09 |
| 31 | | | | | | | | | | | | - | | - | | | | | | - |

U.S.D.A - AGRICULTURAL RESEARCH SERVICE - FORT LAUDERDALE, FLORIDA

COOPERATING WITH

CENTRAL AND SOUTHERN FLORIDA FLOOD CONTROL DISTRICT & UNIVERSITY OF FLORIDA, AGRICULTURAL EXPERIMENT STATION

MONTHLY HYDROLOGIC DATA INDIAN RIVER FARMS DRAINAGE DISTRICT

U.S.D.A., A.R.S., APRIL 1981

FLORIDA WATERSHED W-1 *MOTE: Runoff data provisional only.

| MAIN NORTH RELIEF CANAL LEFT. M. S. 8 C 7 2 73 8 C 2 73 9 C 2 77 1 2 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7 | 50UTH RELIEF CANAL L.) 500 Y | 37 31 34 130 130 130 130 130 14 14 15 15 16 17 17 17 17 17 17 17 17 17 17 17 17 17 | NORTH RELIEF CANAL (SEC. FT. 6 / 6 / 7 / 7 / 7 / 7 / 7 / 7 / 7 / 7 / | SOUTH RELIEF CANAL 1 7 3 3 5 5 3 5 5 3 5 5 3 5 5 3 5 5 3 5 5 3 5 5 5 3 5 5 5 3 5 | (SEC. FT.) 571 446 720 720 734 278 13 | TOTAL DISCHARGE (0x.00047) I IN. OVER DISTRICT 1 | |
|--|--|---|--|---|--|---|--|
| 867 273 861 273 847 273 947 277 903 277 903 277 904 275 904 275 904 275 907 276 907 276 | 30 954 954 954 954 954 954 954 954 954 954 | 37 31 34 150 116 80 -75 | 6 1 6 1 7.4 7.7 7.7 6.7 7.7 6.7 7.7 7.7 7.7 7.7 7.7 | 7 7 3 0 7 8 a 3 7 a a 5 7 | 571 446 720 3 278 | 01STRICT) .1.7 .7.7 | .27 .11 11 15 \$.14 .53 |
| 867 273 861 273 847 273 947 278 903 275 903 275 904 275 904 275 904 275 904 275 904 275 904 275 904 275 904 275 | 30 954 954 954 954 954 954 954 954 954 954 | 34 130 116 80 15 15 | 6 1 74 77 79 67 70 67 70 67 70 67 70 70 70 70 70 70 70 70 70 70 70 70 70 | 7309833 6555 557 | 72 0 | 07.8 | .11 .15 \$.14 .3 .53 .52 .24 |
| 947 277 947 277 947 275 8643 275 8643 276 877 276 977 276 977 276 977 276 977 276 | 278 278 278 298 200 305 3 | 150 116 80 -15 14 72 | 7.4 7.7 7.9 6.7 7.0 6.7 7.0 8.9 2.1 | 9655551435 557 | 72 0 72 0 73 5 27 8 | 078 | 15 4 |
| 943 276 897 276 127 291 934 296 902 354 866 278 | 298 11 300 305 3 | 72 | 67 70 70 89 21 | 53 | 27 8 27 8 1 3 | .040 | .24 |
| R66 278 | 304 | | | | 1578 | .072 | ./2 |
| 899 278 | 305 | 36 38 74 | 77 67 77 | 64 | 49.5 | 623 | 115 |
| 931 234 | 3 10 3 11 3 | 122 | 10 | 7.5 | 377 | .065 | 140 |
| 8.65 2.79 9.52 2.78 9.12 2.78 | 3 15 3 15 3 7 | 27 | 77 | 15 T | 45 2 | 027 | 25 |
| 9 15 2 84 | 3756 356 279 | 150 | 14 | 130 | 324 5 | 1152 | - 2 |
| | 930 2 82 8.65 2 75 952 2 78 772 2 78 127 2 77 137 3 17 796 3 42 | 736 284 311 730 282 313 8.65 2.75 3 15 6.52 2.78 3.75 7.12 2.78 3.77 7.12 2.78 3.77 7.14 3.77 3.76 7.14 3.62 3.56 | 784 284 3 17 166 780 282 3 13 124 865 275 3 17 129 952 278 3 15 27 712 278 7 7 14 712 278 7 7 14 712 277 1 7 120 714 3 72 3 76 150 746 3 42 3 55 158 | 156 284 3 17 146 10 130 292 3 13 124 1865 275 3 3 147 20 192 275 3 15 21 77 172 276 17 17 17 172 276 17 17 17 172 276 17 17 10 14 174 377 3 78 150 14 174 32 32 356 158 | 7 56 7 844 3 1/1 146 10 7 7 7 7 7 7 8 7 8 8 57 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | 736 284 3 11 136 10 7 7 135 7 130 7 130 22 3 13 124 1 6 9 7 1 13 1 124 1 6 9 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 786 784 3 11 146 10 7 1835 7 7 18 19 19 19 19 19 19 19 19 19 19 19 19 19 |

| ATE | | | | | RAIN | FALI | | | | | | | STAGE | | | | DISCH | ARGE | | |
|----------------------------------|-----|------------------|------|-----|------|------|------|------|-----|-----|-------------------------------|------------------------------|--|--------------------------|--|--|--|--|----------------------------------|----------------------------|
| ONTH EAR | м | EASU 2 | GAGE | | ALL | | 2 | GAGE | 4 | 5 | TOTAL WEIGHTED RAINFALL | MAIN CANAL | NORTH RELIEF CANAL | SOUTH RELIEF CANAL | MAIN CANAL | NORTH RELIEF CANAL | SOUTH RELIEF CANAL | TOTAL DISCHARGE | TOTAL DISCHARGE (Qx.00047) | PAN EVAF |
| | n | A | C | 0 | R | 14% | 16 % | 26% | 9) | | (INCHES) | (FT. | M.S | _ L.) | - | SEC. FT | | (SEG. FT.) | (IN. OVER DISTRICT) | UNOHE |
| 2 3 | | .20 | .10 | .10 | 10 | | 02 | 03 | 12 | 07 | 0009 | 926 | 297 | 294 296 295 | 120 | 7 (in) | 10 | 134 / | 5 7 | 28 |
| 5 6 7 | | .07 | .05 | .10 | .10 | | .01 | 02 | 02 | .02 | 004 | 9 05 9 99 99 | 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 295 | 76 | 4 4 4 5 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | 85 | 915 | (43 643 | 17 |
| 9 10 | .95 | 199 | | 45 | | /3 | ,08 | 13 | .09 | 12 | 0 55 | 9999 | 275 | 3 02 | 900 | 74 | 37.400 | 100 0 | 0 1 7 - 1 7 - 1 3 | 23 21 12 |
| 12 13 16 | .08 | T. | | | | .01 | | | | | 001 | 773 | 775 273 272 271 269 | 3023333334 | 120 33 C44 1 3 7 7 7 7 3 4 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 | 77 | To Take The Control of the Control o | 991 592 795 912 909 | .027 | 12 17 19 79 |
| 17 18 19 20 21 22 | | T .03 | | | | | 00 | | | | | TOTAL BOLL | 263 263 264 | 3337 337 | 76 49 79 29 | 74 - Knapki | 9 / | 75 2 | 013 | 25 21 23 20 27 |
| 23 24 25 26 27 28 | | 7 24 24 23 | | | | _ | .04 | | | | 0.04 | 9 (1 9 77 9 57 9 75 | 22223 | 3 12 | 16 | 7.4 6.7 | 7 | 69 9 69 9 69 9 69 9 69 5 72 5 | . 47 . 37 | 2 - 15 23 22 |
| 30 31 | | 1.12 | | | | 03 | ,19 | .22 | .20 | .15 | 0.79 | 7 7 72 | 261 | 3 13 3 26 3.25 | 121 | 6773 | 13 | 142.7 | 137 | 24 |
| DTAL | 128 | 265 | 1.75 | | 724 | .18 | 42 | .46 | .39 | 54 | 199 | - | - | | 2,276 | 235,5 | 2710 | 2,7026 | 1337 | 67 |

U.S.D.A - AGRICULTURAL RESEARCH SERVICE - FORT LAUDERDALE, FLORIDA COOPERATING WITH

CENTRAL AND SOUTHERN FLORIDA FLOOD CONTROL DISTRICT & UNIVERSITY OF FLORIDA, AGRICULTURAL EXPERIMENT STATION

MONTHLY HYDROLOGIC DATA INDIAN RIVER FARMS DRAINAGE DISTRICT FLORIDA WATERSHED W- | *MOTE: Sunoff data provisional only.

| | | | | | | | | | | | FLORIDA | AAY1 C | KOUED | 44 — 1 | * 140 | TE: Muno | II data | PLOATET | mer outh. | _ |
|-------------------------------|------|-------|------|------|----------|-------|--------|------|-----|-----|-------------------------------|----------------------------------|--------------------------|------------------------------|--|--------------------------|--------------------------|-----------------------|----------------------------------|----------------------------|
| DATE | | | | | RAIN | IFALI | L | | | | | | STAGE | | | | DISCH | ARGE | | |
| MONTH MONTH MOS MEAR | | EASU: | GAGE | | ALL 5 | | EIGHT | GAGE | 4 | 5 | TOTAL WEIGHTED RAINFALL | MAIN CANAL | NORTH RELIEF CANAL | SOUTH RELIEF CANAL | MAIN CANAL | NORTH RELIEF CANAL | SOUTH RELIEF CANAL | TOTAL DISCHARGE | TOTAL DISCHARGE (Qx.00047) | PAN EVAP. |
| | P | A (1 | NCHE | | | 14.4 | | CHE! | | 204 | (INCHES) | (FT. | M. S | 1.1 | - (| SEC FT. |) | (SEC. FT.) | | (INCHES |
| | .15 | | | 9/ | .05 | .02 | | | | .01 | 0.10 | 9 09 | 2.74 | 283 | | 5 / | | | .017 | |
| 2 | 110 | .20 | 110 | | ,05 | .02 | ,04 | .09 | | .01 | 0.70 | 906 | 2.71 | 283 | 90 | 93 | 47 57 | 950 | C-75 | ,39 22 33 |
| 3 | | - | .15 | | 221 | | | .04 | | .55 | 0.59 | 26 78 73 13 89 69 | 2.72 | 292 946 9.69 9.87 | 50 102 78 40 | 95 | 57 | 692 | .032 | 33 |
| 4 | | | | .10 | | | | | 02 | | 092 | 8 78 | 2.72 2.74 3.75 | 996 | 50 | 31 | 81 56 | 120.1 | 0.56 | 32 |
| 5 | .50 | 84 | .20 | .90 | 120 | 07 | .13 | .05 | .17 | .30 | 072 | 9 13 | 3 75 | 9 27 9 37 3 05 3 96 | 102 | 134 | 8/ | 258.0 | ,147 | 24 |
| 7 | | - | | - | - | | _ | _ | - | | | 976 | 2.77 | 707 | 40 | 58 | 11 | 54.8 | 027 | 3/ |
| 6 | 35 | | | 35 | | 05 | | | 07 | | 0.12 | 8 70 | 275 | 346 | 41 | 61 | :6 | 421 | .029 | 36 30 20 17 28 |
| 9 | 50 | | .40 | | | 07 | | .16 | | | 0.23 | 8 70 8 83 8 76 | 272 | 2 47 | 41 56 77 38 52 84 77 81 35 60 37 43 | 43 | 16 | 76 7 | .036 | .20 |
| 10 | | .07 | | | | | 01 | | | | 0.23 | 876 | 270 | 3 48 | 77 | 90 | 160 | 990 | 1247 | .17 |
| 11 | | .11 | .95 | | | | .07 | .12 | | | 0 14 | 8.33 | 2.70 | 346 | 30 | 3.7 | 16 | 49 7 55 2 | 023 | 28 |
| 12 | - 21 | - | | - 2 | F | | | | | | | 867 | 2.71 | 3 3 6 | 38 | 3 2 | 22 | 55 2 | .037 | 30 28 |
| 13 | 2.5 | 3/ | 130 | .65 | .50 | 04 | .05 | 34 | .02 | 30. | 0 23 | 881 | 275 | 3 45 | 94 | 90 | 18 | | .050 | .26 |
| 15 | 30 | 30 | 1 30 | . 60 | 100 | 04 | 107 | , 57 | .16 | 25 | 0 39 | 901 | 281 | 3.45 | 77 | 67 | 16 | 99 7 | 647 | 36- |
| 16 | - 2 | 30 16 | .15 | 45 | | | 000000 | .04 | .09 | ~ | 0.16 | 904 | 2.81 | 3 72 | 87 | 67 | 2.4 | 1077 | 051 | 36 |
| 17 | | 03 | | | | | .00 | | | | 0 00 | 905 | 75 81 85 22 27 76 5 | 3 28 | 93 | 333944865999 | 14 | 105.0 89.7 52.4 | -019 | 3Z 20 |
| 18 | | | | | _ | | | | | | | 895 | 2.82 | 334 | 67 | 67 | 14 | 89 7 52 4 | 042 | 19 |
| 9 | | | | | ,25 | - | | | | 06 | 006 | 8 62 | 2.78 | 269 | 35 | 34 | 174 | 173 | 025 | 29 |
| 20 | | | .25 | 20 | | | | 06 | 11 | - | 0.10 | 843 | 275 | 2 49 | 20 | 45 | 64 | 307 | 015 | .26 |
| 22 | | | 123 | , | | | | .00 | 04 | | | 864 | 2.12 | 271 | 37 | 45 | 66 | 307 | -023 | 21 |
| 23 | | | 20 | 10 | 20 | | | .05 | | ಿ8 | 0 15 | 8 76 | 276 | 2 73 | 43 | 45 | 45 | 596 | 026 | .17 |
| 24 | | 06 | | .10 | 10 | - | -01 | | 02 | 02 | 0 05 | 8 72 8 9 1 | 276 | 300 | 64 | 95 95 77 | 10 | 78.5 | .037 | 26 |
| 25 | 30 | T | .50 | .85 | .55 | .04 | - 1 | ./3 | 16 | .14 | 0 97 | 8 72 | 2 75 | 3.96 | 99 | 95 | 24 | 725 | .647 | 29 |
| 26 | 150 | 7 802 | 1.00 | 35 | .35 | 21 | 07 | 26 | 07 | 09 | 0.58 | 9 77 | 2 85 | 9 26 | 67 | 177 | 16 | 451 | .2/2 | 16 |
| 28 | 95 | 1.5% | 1.00 | 35 | 30 | | 25 | | 07 | | 064 | 9 28 | 3 99 | 388 | 132 | 20+ | 38 19 | 363 | | -7 |
| 29 | 05 | .57 | 113 | 600 | 103.00 | 01 | 09 | 24 | 0/ | -C) | 0.10 | 916 | 3.17 | 367 | 107 | 44 | 19 | 170 | 167 | .27 |
| 30 | | | | | | | - / | | | | | 868 | 3 17 | 3.67 | 49 | 35 | 17 | 102 | .048 | .19 |
| 3 i | | | | | | | | | | | | | | | | | | | | |
| LATO | 5 75 | 533 | 580 | 530 | 7.56 | 21 | 85 | 1.52 | 102 | 187 | 609 | _ | | | 2033 / | 845.4 | 6093 | 3 427. | 1.642 | 759 |

| DATE | | | | | RAIN | IFAL | L | | | | | | STAGE | , | L | | DISCH | ARGE | | |
|-----------------------------|-----|-------|-------------|-------|------|------|--------|------|-----|---------|-------------------------------|---|---|--|------------------------------|---|--------------------------|--|----------------------------------|--|
| ULY MONTH 963 YEAR | м | | RED GAGE | RAINE | ALL | | VEIGHT | GAGE | | LL 5 | TOTAL WEIGHTED RAINFALL | MAIN CANAL | NORTH RELIEF GANAL | SOUTH RELIEF CANAL | MAIN CANAL | NORTH RELIEF CANAL | SOUTH RELIEF CANAL | TOTAL DISCHARGE | TOTAL DISCHARGE (Qx.00047) | PAN EVAP. |
| | P | A_ (1 | C | 0 | R | 14% | 16 % | 26% | 19% | 25% | (INCHES) | (FT. | M . S | L.) | | SEC FT. | 1 | (SEC FT.) | (IN. OVER DISTRICT) | (IN CHE |
| 1 2 3 4 5 6 | | | 1,00 | .10 | .70 | | | .13 | 02 | 18 | 0.15 | 876 876 877 107 127 127 127 127 127 127 127 127 127 12 | 293 291 292 292 292 295 291 | 3 2 2 76 2 78 2 78 3 59 3 97 3 97 | 65 31 103 54 16 | 26 24 22 19 | 7.1 | 104 0 55.1 603 401 127.0 | . \30 74 . \25 | .24 .33 .33 .32 .29 .29 |
| 9 10 11 12 | 90 | 232 | 130 | 3/ | | 10.1 | .07 | 34 | .57 | | 004 | 865 865 873 944 927 | 2 81 2 80 2 78 2 76 3 83 | 2 81 2 74 2 75 3 3 7 3 1 5 | 36 36 196 | 17 | 76 49 70 30 31 | 67 6 60 9 6- 1 255 5 281 0 | | 25 25 21 22 22 |
| 13 14 15 | 30 | .62 | | 120 | | .04 | .04 | | 23 | | 0.31 | 9 11 895 9 (1 | 78 276 33 70 70 70 70 70 70 70 70 70 70 70 70 70 | 2.73 2.72 2.72 2.73 2.75 3.02 | 9259 | 92 90 90 90 90 90 90 90 90 90 90 90 90 90 | 437 | 190 B 17 1425 P | 075 | 30 20 09 30 |
| 17 18 19 20 21 | .10 | .62 | .65 | 135 | 70 | .01 | .01 | .17 | 26 | 18 | 0 19 | 895 | 333570 | 3 | 36 | 122 20 | 15 | 1150 | .065 | 30 25 24 |
| 22 23 24 25 | 86 | .05 | .90 | = 1 | | 12 | .08 | | 15 | | 0.58 | 9 24 | 336 | 294 | 96 87 127 127 67 | 62 | 73 24 16 77 | 123 3 213 0 141 0 87 7 | .100 | 30 31 27 |
| 26 27 28 29 | | 35 | .10 | .10 | | | .06 | 03 | .12 | | 0.03 | 954 884 977 870 | 271 268 266 266 | 2.87 | 54 54 74 46 | 10 | 92 | 73 Z | .034 | 27 30 33 |
| 30 31 | | 506 | - | 40 | | 3/ | .81 | | 09 | | 009 | 956 259 | 264 | 3 40 | 26 | 10 | 19 | 980 | 023 | 26 24 792 |

PART II

Monthly Hydrologic Data

Upper Taylor Creek (W-2)

Upper Taylor Creek (W-3)

10/1/62 - 9/30/63

U.S.D.A. - AGRICULTURAL RESEARCH SERVICE - FORT LAUDERDALE, FLORIDA

COOPERATING WITH

CENTRAL AND SOUTHERN FLORIDA FLOOD CONTROL DISTRICT E UNIVERSITY OF FLORIDA, AGRICULTURAL EXPERIMENT STATION

MONTHLY HYDROLOGIC DATA UPPER TAYLOR CREEK WATERSHED

FLORIDA WATERSHED W-2 8 3

| | | - | | | | | | P(A) | NFA | LL | | | | | | | AGE | - | | HARGE | 2020 | 100 |
|--------|---------------------------------------|--------|-------------------|----------|-----|----------|--------------------------|--|--------|-------------------------------------|--------|-------|-----|---|--|--|---|--|---|---|--|---------------|
| | | MEMBU | RED | RAINF | ALL | | | WE | THE | ED R | ASSTA. | LL | | TOTAL | TOTAL | STATION | COMER | 3US. | TOTAL | AREA | AREA | EVI |
| H | _ | | - | | | - | | | | | | | | WAINFALL | RENTALL | BIATON | DUE TO | MILA | SHEA | WALE. | Anta | 2.4 |
| N/A | ARE | | 646 | | | | 200 | AREA | | GAGE | | | - 1 | BUB | ENTIRE | | | | | | | |
| | 1 | 3 | 4 | 1 | . 0 | T | 1 | | 3 | 4 | 5 | 6 | 7 | AREA | AREA | | | | | 4 5 3 4 5 5 | 44.00000 | 1 |
| 54 | 1 6 | R | 14 | 10 | M. | 0 | 43% | 0.3 | 10% | 10.3 | 18.% | 10.5 | 23% | Tonor and | Consessed 2 | OFT. | 2000 | (585. | FT. 3 | DIL OVER | | Chin |
| - | | | (MOH | _ | | | | | - | HCHE | | - 10 | | (INCHES) | (INCHES) | | 8.5 LJ | | | | | .0 |
| -2 | 5 | 4.32 | | 138 | 110 | | 22, | 14 | 12 | | 9 | 02 | | 0.11 | 031 | 3.76 | 7,02 | 7.5 | 116 | 014 | 043 | 11 |
| 100 | | 513 | 9.30 | .38 | .95 | 10 | #5 | 01 | .19 | 04 | 04 | 25.00 | 49 | 066 | 0.53 | 것을 | 4.36 | 34 | 116 | 086 | 047 | -10 |
| | 2 800 | - | 103 | - | 176 | 1100 | 01 | 200 | - | 10. | - | | - | - 0.0 | 0.01 | 173 4 60 | 7-01 | 47 | 150 | 1.50 | 026 | 7.6 |
| | | | | | | | 07 | | | | | | | | - | 4.85 | 7.00 | 47 20 20 88 | 170 | 648 628 620 | 064 | 12 |
| | | | | | | | 05 | | | | | | | | - | 7.85 | 7.05 | 72 | 158 | 028 | 0.55 | -6 |
| | - | - | - | - | | - | - | | | | - | | - | | - | 3.73 | 7.07 | 53 | 150 | 013 | 036 647 038 032 | i. |
| .0/ | | + | - | - | | | | | | _ | | | _ | 0.02 | 0.00 | 3.60 | 7.01 | 4.0 | 85 | 0/0 0/0 | 032 | 0.6 |
| - | - | | - | - | | | | | | | | | | | - | 3.57 | 6.85 | 79 A | 87074 7074 7074 | odB | 026 | 1.1 |
| | | | | | | | | | | | | | | | | 3.55 | 68.40 | 28 | 54 | 2.00 C | 020 | 1 |
| | | | | - | - | | _ | | | | | | | | | 349 | 4.85 | 2.5 | 65 | 40.5 | .0/3 | 1.0 |
| - | - | - | 0.3 | | - | | \vdash | | | 00 | - | | | | A AA | 3 44 | 4.79 | 7.0 | 碧 | 100 | 676 | 1.0 |
| - | _ | | 100 | - | -03 | | | | | 100 | - | -01 | | | 0.00 | 3.44 | de Ton | F - 6e | 00 | 1004 | 676 | 111 |
| | | | | | | | 5-4 | D-0 | | | | | | | | 3, 3,6, | Controlo | 1.4 | 16. | 003 | 100.6 | 1 |
| .11 | 2 :10 | 3 10 | -15 | -10 | 20 | .50. | .11 | .60 | 02 | 02 | 101 | 04 | .07 | 0.11 | 01A | 9.85 | 6.55 | 1.2 | 1.E. | 003 | 0.0 G | -5 |
| | | - | | | | | 866 | 66 | | _ | | | - | | _ | 9,35 | 6.77 | 1.2 | 13 | 0.63 | 006 | 17 |
| - | _ | _ | - | + | - | | 05° | 266 | | - | - | | | | | 00000000000000000000000000000000000000 | 2.76 | | 10 | 003 | 00% | 13 |
| | | | | | | | 63 | | | | | | | | | 3.28 | 0 81 0 82 0 58 0 50 0 50 | .7 | 10 | 002 | 40.3 | D.F |
| 0 | 13 . 14 | 5 : OA | 1.10 | .05 | .15 | .15 | 50 | | di. | .02 | .01 | 03 | 03 | 0.07 | 0.12 | 3.75 | 4.92 | - 60 | 38 | 001 | 003 | J.D |
| | | | | | | | | | | | | | _ | | | 3.25 | 9:56 | + 50 | | 1001 | 003 | -8 |
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| | | | | | | | | | | | | | | | | 2.58 | 6.53 | -9 | 5.6 | 1 | 002 | - 0 |
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| . 11 | - | 0.5 | | 0.5 | .05 | -05 | \vdash | - | 67 | | 01 | 01 | O.F | 0.06 | 0.05 | 9.44 | 677 | -1 | 5.3 | 2 | 202 | 1 |
| | | 200 | 2.5 | 100 | 0.0 | 0.4 | 47 | 15 | | -6 | | | | 1.05 | 1.21 | - | _ | 191.1 | 15,74.0 | 455 | .577 | 17 |
| F | _ | MEAN | INED | NAINF | ALL | | | - | INFA | | AINTA | LL | | TOTAL | TOTAL | LEPER | AGE | 508 | TOTAL | SHARGE | TOTAL | |
| | | | INED GAO | | ALL | | | WI | EJGWT | | | LL | | WEIGHTED RAINFALL | WEIGHTED | LEPER | | SUB | | | | EV |
| 94 | LARE | | 940 | 31 | | 7 | - 1 | AREA | TWDE | SAGE | | | 7 | WEIGHTED | WEIGHTED | LEPER | LOWER | SUB | TOTAL | BUB | TOTAL | |
| all Av | ARE | | 940 | E | | | 23 | AREA E IS % | Two: | SAGE | 5 | | | WEIGHTED RAINFALL SUB SUB- | WEIGHTED RAINFALL ENTINE AREA | LIPPER STATION | LOWER | AREA | TOTAL | BUS | TOTAL | |
| - | ARE | | 940 | E | | | 23 | AREA E IS % | Two: | SAGE | 5 | | | WEIGHTED MAINFALL SUB | WEIGHTED RAINFALL ENTINE | LIPPER BILLION | ETATION M.S.L.) | ISES. | TOTAL AREA | BUB | APEA | |
| - | ARE | | 940 | E | | 0 | 2 % 543 10. | AREA E IST BTE | Two: | SAGE | 5 | | 25% | WEIGHTED RAINFALL SUB SUB- | WEIGHTED RAINFALL ENTINE AREA (INCHES) | LEPER BTATION | M.S.L.) | ISES. | TOTAL | BUS | AMEA AMEA AMEAI | |
| - | ARE | | 940 | E | | | 9 % 43% -01 | AREA E 12% BTE | Two: | SAGE | 5 | | | WEIGHTED RAINFALL SUB SUB- | WEIGHTED RAINFALL ENTINE AREA | LEPER BTATION | MáL) | ISES. | TOTAL AREA | BUS | TOTAL AREA AREA AOZ 3.02 | |
| - | ARE | | 940 | E | | 0 | 9 % 43% -01 | MEA E 12% 13% 11% 101 113 | Two: | SAGE | 5 | | 25% | WEIGHTED RAINFALL SUB AREA (INCHES) | WEIGHTED RAINFALL ENTINE AREA (INCHES) | (FT. 2.44 2.75 2.87 | M.S.L.) | ISES. | TOTAL AREA | BUS | TOTAL AREA AREA AO.Z AO.Z AO.Z | |
| k | ARE | | 940 | E | | 0 | 9 % 43% -01 | AREA E 12% BTE | Two: | SAGE | 5 | | 25% | WEIGHTED RAINFALL SUB SUB- | WEIGHTED RAINFALL ENTINE AREA (INCHES) | (FT. 244 275 275 275 | M S L) G 53 G 53 G 54 G 55 G 55 | (SEC. | PE) DESCRIPTION | BUS | TOTAL AREA AREA AGE AGE AGE AGE AGE AGE AGE AGE AGE A | |
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| 10 | CO. | 1 1 | GAG 4 (IMG) | E S | Å | 0.5 | 9 % 83% .01 .10 | HI AREA E 12% STE | B IO % | ED R BAGE 4 IIS % HIGHE | 102% | 19% | 0/ | WEIGHTED RAINFACC SUB APEA (INCHES) | WEGHTED RAINFALL ENTIRE AREA (INCHES) | (FT. 2.64 2.75 2.67 2.67 2.63 2.63 3.63 | # \$ L) 6 53 6 62 6 99 6 64 6 67 6 67 | (SEC. | PE) DESCRIPTION | BUB AREA ON OVE | TOTAL AREA AREA AO 2 AO 2 AO 2 AO 2 AO 2 AO 2 AO 2 AO | B 1777 |
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| 10 | CO. | 000.20 | GAG 4 (IMG) | E S | Å | 0.5 | 9 % 83% .01 .10 | HI AREA E 12% STE | B IO % | ED R BAGE 4 IIS % HIGHE | 102% | 19% | 0/ | WEIGHTED RAINFACC SUB APEA (INCHES) | WEGHTED RAINFALL ENTITE AREA (INCHES) | (FT. 2444 2757 2757 3.003 3.703 3.703 3.703 3.703 | 6.51 6.53 6.63 6.63 6.63 6.63 6.63 6.63 | (SEC. | PT) DESCRIPTION OF THE PT) | 00 0 000 00 000 00 000 00 000 00 000 00 000 | TOTAL AREA AREA AREA AREA AREA AREA AREA AR | B 177 177 177 |
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U. S. D. A. - AGRICULTURAL RESEARCH SERVICE-FORT LAUDERDALE, FLORIDA

GOOPERATING WITH

CENTRAL AND SOUTHERN FLOREDA FLOOD CONTROL DISTRICT & UNIVERSITY OF FLOREDA, AGRICULTURAL EXPERIMENT STATION

MONTHLY HYDROLOGIC DATA UPPER TAYLOR CREEK WATERSHED

FLORIDA WATERSHED W-2 & 3

| TE | | | | | | | | | MAI | INFA | LL | | | | | | ST | HOL | | | HARGE | | _ |
|--|-------------------------|---|--------------------------------------|-------------------|------------------|-------------------|--------------------------------|--|--|--|---|----------------------|----------------------------|------------------|---|--|--|--|--|--|--|--|----------|
| B | | ME | ASUR | ED R | AINFA | LL | | | WE | THE | ED R | AIMFAI | L | | TOTAL | TOTAL | | LOWER | | TOTAL | SUB AREA | TOTAL | P/ EV |
| NTR | | - | | | | | | - | - | | SOAO | | - | - | RAMFALL | WEIGHTED | STATION | STATION | AREA | AREA | AREA | AREA | EV |
| 63 | BUB A | REA | | GAGE | | | | SUB A | AREA | | OVAC | | | | SUB | ENTIRE | | | | | | | |
| AR | 1 | 1 | 3 | 4 | 5 | M | 7 | 1 | 3% | 3 | 4 | 5 | 6 | 7 224 | AREA | AREA | | | | | 0 X 00016 | G N. 000376 | 1 |
| | 14 | B | 10 | NCHE | D | 7 | 0 | 43% | | | HOME: | | 10.5 | 204 | (INCHES) | (INCHES) | (FT. | M.S.L.) | (SEC. | FT.) | (IN. OVER | | ÖNG |
| l. | | | | | | | | .01 | .03 | | | | | | | | 3.13 | 6.14 | -3 | 4.7 | .00/ | ,002 | .1. |
| 2 | | | - 27 | | | | | 00 | .12 | | | | | 08 | - | | 3.12 | 6.15 | - 2 | 4.5 | 000 | 002 | 1 |
| 4 | 15 | .25 | .08 | ,21 | 36 | 33 | .55 | 09 | 00 | 07 | 03 | 04 | 06 | 10 | 0.20 | 0.09 | 3.11 | 6.00 | NANA | 4.8 | 000 | 002 | 0 |
| 6 | .6.5 | | | 1-1 | | | | 06 | 08 | | | - | | | 0.02 | 6.00 | 3.13 | 6.12 | .3 | 7.0 | .001 | 003 | 1 |
| 6 | | | | | | | | MI | 00 | | - | | | - | | - | 3.15 | 6.17 | - 3 | 9.0 | 001 | 004 | -1 |
| - | _ | | | | | | | 15 | 23 | | - | | | | - | | 3.12 | 6.16 | SASIBILITIES | 9.8 | 001 | 004 | 1 |
| 9 | | | | | | | | | | | | | | | | | 3.12 | G.01 G.05 G.03 | .2 | 9.0 | 000 | 003 | . 2 |
| 10 | | | | .10 | - | | | | | | 42 | | | | | 0.02 | 3.10 | 6,05 | .2 | 8.5 | 000 | 003 | 1 |
| g | 95 | .90 | .68 | | 60 | .50 | 65 | | | 07 | 09 | 07 | 09 | .15 | 092 | 0.6R | 3.10 | CALLO | 3 | 8.0 | 100 | 003 | 1 |
| 3 | | | | | | | | - | | | - | | | | | | 3.26 | 5.96 | .7 | 8.5 | .00 2 | .003 | 1 |
| 5 | | | | | - | | | 0-40 | - | - | | | | | | | 3.29 | (a.0) | . 8 | 9.5 | 002 | 004 | 0 |
| 6 | .55 | .50 | 18 | 45 | 45 | .55 | .50 | .06 | r. | 05 | 07 | .05 | 10 | .12 | 0.53 | 0.50 | 3.24 | 6,01 | .10 | LL | 001 | 404 | .1 |
| 7 | | | | | | | | 27 | 51 | | | | - | | | / | 3.34 | | 1.1 | 12 | .003 | 004 | 0 |
| 9 | .45 | 10 | 1.10 | 1.10 | 85 | RA | .70 | .24 | 27 | 11 | 11. | 10 | 14 | 16 | 0.65 | 0.8/ | 3.42 | 6.34 | 1.4 | 14 | 003 | 005 | 1 |
| 0 | | - May | 1.10 | 1110 | 0.0 | .00 | 170 | 28 | 37 | | 154 | .,, | | 1.002 | 5.00 | V. 0.1 | 3.54 | Ca. 18 | 3.0 | 22 | 007 | 508 | .1 |
| 15 | | | | | | - | | 28 | 02 | | - | | | | | - | 3.47 | 5.99 | 2.7 | 25 | 2005 | 010 | al |
| 3 | | | | | | | - | 113 | 7.00 | | | | | | | | 3,41 | 5.99 | 1.60 | 260 | 004 | 010 | .1 |
| 4 | .10 | .03 | .10 | .35 | | | | | | .01 | .05 | | | | 006 | 007 | 3.40 | 6-34 | 1.5 | 25 | 004 | 009 | .0 |
| 6 | 7.70 | 175 | 162 | 145 | 194 | 165 | 190 | \vdash | | 11. | .22 | 9.7 | 30 | 99 | 7 77 | 177 | 3.57 | 6.09 | 5.4 | 70 | 0/3 | 026 | 11. |
| 7 | 170 | 0. 19 | | | 1.10 | 1.00.2 | 1.10 | | | | | - Marcal | | | | 7.74 | 3.94 | 6.16 | 16 | 180 | 038 | 363 | 7. |
| 8 | | | | | | | | | | | | | | | | | 2.76 | 632 | 9,3 | 200 | 022 | 075 | 1 |
| 9 | | | | | | | \vdash | \vdash | | - | | - | | | | | | | | | | | |
| TE AR | 1,15 | - | 424 C | | | | 433 // | 37 78) | RA | INFA | | | | 1.05 | TOTAL | TOTAL | UPPER | AGE | SUB | DISC | CHARGE | TOTAL | 6 |
| 31 | | М | | | RAINFA | | 4531 // | | RA | INFA | LL | AINFA | | 105 | TOTAL WEIGHTED RAINFALL | TOTAL WEIGHTED RAINFALL | ST | AGE | SUB | DISC | CHARGE | .B., JULY 196 | 0 |
| TE AR | 3UB / | М | | ED F | RAINFA | | 433 // | 308 | RA WI AREA | INFA EIGHT | ED R | AINFA | LL | 7 | TOTAL WEIGHTED | TOTAL WEIGHTED | ST | AGE | SUB | DISC | CHARGE SUB AREA | TOTAL AREA | 0 |
| AR HTTH | | М | EASUR | GAGE | RAINFA | | | 3U8 1 2 % | RA | INFA EIGHT | LL ED R | AINFA 5 | LL | 7 | TOTAL WEIGHTED RAINFALL SUB | TOTAL WEIGHTED RAINFALL ENTIRE | ST UPPER STATION | AGE | SUB | DISC | CHARGE | TOTAL AREA | E |
| AR HTTH | SUB / | AREA 8 | B (I | GAGE | S S | ALL 6 | 7 | 3UB 1 9 % 43% | RA WI AREA 2 3 % 57 % | INFA EIGHT | ED R GAGE 4 IIS % | AINFA | 10% | 7 23% | TOTAL WEIGHTED RAINFALL SUB AREA (INCHES) | TOTAL WEIGHTED RAINFALL ENTIRE AREA (INCHES) | STATION | AGE LOWER STATION | SUB AREA | DISC TOTAL AREA | CHARGE SUB AREA (IN OVER | TOTAL AREA | E |
| TE AR NTH | SUB / | AREA 8 | EASUR 3 | GAGE | S S | ALL 6 | 7 | 3U8 9 % 43% | RA WI AREA 2 3 % 57 % | INFA | ED R | AINFA 5 | 10% | 7 23% | TOTAL WEIGHTED RAINFALL SUB AREA (INCHES) | TOTAL WEIGHTED RAINFALL ENTIRE AREA (INCHES) | STATION | AGE LOWER STATION | SUB AREA | DISC TOTAL AREA FT.) | CHARGE SUB AREA (IN OVER | TOTAL AREA | E |
| TE AR NTH 3 AR | SUB / | AREA 8 | B (I | GAGE | S S | ALL 6 | 7 | 3U8 9 % 43% | RA WI AREA 2 3 % 57 % | INFA | ED R GAGE 4 IIS % | AINFA | 10% | 7 23% | TOTAL WEIGHTED RAINFALL SUB AREA (INCHES) | TOTAL WEIGHTED RAINFALL ENTIRE AREA (INCHES) | ST UPPER STATION (FT. 3.70 3.67 3.60 | M.S.L.I | SUB AREA | DIS(TOTAL AREA FT.) | CHARGE SUB AREA | TOTAL AREA | E |
| TE RHTH 3 | SUB / | AREA 8 | B (I | GAGE | S S | ALL 6 | 7 | 3UB 9 % 43% .01 .02 .00 .00 | RA WI AREA 2 3% 57% 000 040 | INFA | ED R GAGE 4 IIS % | AINFA | 10% | 7 23% | TOTAL WEIGHTED RAINFALL SUB AREA (INCHES) | TOTAL WEIGHTED RAINFALL ENTIRE AREA (INCHES) | ST UPPER STATION (FT. 3.70 3.67 3.60 | M.S.L.I | SUB AREA (SEC. 7.09524 | DIS(TOTAL AREA FT.) 130 50 37 31 28 | CHARGE SUB AREA IN OVER . 017 . 014 . 013 . 019 | TOTAL AREA | E |
| TE AR NTH 3 AR 1 2 2 3 4 5 5 6 | SUB / | MAREA 8 | 3 () .25 | GAGE 4 NOHE | 5 3) | 6 .20 | 30 | 3UB - 9 % 45% - 07 - 00 - 00 - 00 | RA WI AREA 2 3% 57% 07 07 | 3 10 % (| ED R GAGE 4 IIS% HICHE | AINFA | 18% | 7 23% | TOTAL WEIGHTED RAINFALL SUB AREA (INCHES) 0.15 0.03 | TOTAL WEIGHTED RAINFALL ENTIRE AREA (INCHES) | ST UPPER STATION (FT. 3.70 3.67 3.66 3.66 3.56 3.56 3.56 3.56 3.56 3.56 | M.S.L.I 6.50 6.36 6.48 6.53 | SUB AREA (SEC. 7.09524 | DIS(TOTAL AREA FT.) 130 50 37 31 28 25 | CHARGE SUB AREA LE COSTM CIN. OVER CIT. CIT. CIT. CIT. CIT. CIT. CIT. CIT. | TOTAL AREA 6x 000319 AREA 0.097 0.14 0.17 0.09 | E |
| TE AR NTH 3 3 AR 1 2 2 3 4 5 5 6 6 7 | sus / . 1.5 | MAREA 2 | 3 (1) (25 ,03 | GAGE 4 NGHE | 5 8) 20 | 6 .20 | 30 | 3UB 9 % 43% .01 .02 .00 .00 | RA WI AREA 2 3 % 0 7 % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 3 10 % (),02 | BICHE | 8 112% 9) | 18% | .07 | TOTAL WEIGHTED RAINFALL SUB AREA (IMCHES) 0 15 0.03 | TOTAL WEIGHTED RAINFALL ENTIRE AREA (INCHES) 0.07 0.15 | (FT. 3.70 3.70 3.67 3.66 3.50 3.50 3.50 | M.S.L.I 6.50 6.36 6.36 6.54 6.53 6.54 6.25 | (SEC. 7.09 5.5 4.2 4.2 4.2 4.2 4.2 4.2 4.2 4.2 4.2 4.2 | DISC TOTAL AREA FT. 1 130 50 37 31 28 25 22 20 | CHARGE SUB AREA SIN OVER O14 O13 O09 O07 | TOTAL AREA 0.0001111 AREA 0.000111 0.00011 | E |
| TE AR NITH 3 AR 1 2 2 3 4 5 5 8 8 9 9 | sus / . 1.5 | MAREA 2 | 3 () .25 | GAGE 4 NGHE | 5 8) 20 | 6 .20 | 30 | 3UB 9 % 43% .0/ .00 .00 .00 | RA WI AREA 2 3 % 0 7 % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 3 10 % (),02 | ED R GAGE 4 IIS% HICHE | 8 112% 9) | 18% | .07 | TOTAL WEIGHTED RAINFALL SUB AREA (IMCHES) 0 15 0.03 | TOTAL WEIGHTED RAINFALL ENTIRE AREA (INCHES) | (FT. 3.70 a.67 a.67 a.45 a.45 a.45 a.45 a.45 a.45 a.45 a.45 | M.S.L.I 6.50 6.36 6.36 6.38 6.54 6.53 6.54 6.71 6.42 | SUB AREA (SEC. 7.09 32 4 3 4 3 4 4 3 9 4 4 4 3 9 4 4 4 3 9 4 4 4 3 9 4 4 4 4 | DIS(TOTAL AREA FT.) 130 50 50 37 28 25 20 18 | CHARGE SUB AREA IN OVER O 1-3 O 1-4 O 1-3 O 1-7 O 0-5 O 0-5 O 0-5 O 0-4 | TOTAL AREA AREA AREA AREA 0.049 0.14 0.17 0.09 0.08 0.07 | E |
| TE 4R NTH 3 AR 1 2 3 4 5 6 7 7 8 9 0 0 | . 1.5 . 0.5 | MAREA 2 | 3 (1) .25 .03 | 4 NGHE | 20 .10 | .12 | 30 | 3UB 9 % 43% .0/ .00 .00 .00 | RA WI AREA 2 3 % 0 7 % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 3 10 % (),02 | BICHE | 8 12% 9) | 18% | .07 | TOTAL WEIGHTED RAINFALL SUB AREA (IMCHES) 0 15 0.03 | TOTAL WEIGHTED RAINFALL ENTIRE AREA LINCHESI 0.07 0.15 | (FT. 3.707 3.707 3.407 3.601 3.558 3.503 3.503 3.503 3.503 3.503 3.503 3.503 3.503 3.503 | M.S.L.I 6.50 6.36 6.44 6.53 6.24 6.53 6.24 6.53 | SUB AREA (SEC. 7.09 2.2 4 1 9 1 2 4 1 9 1 2 2 2 2 2 2 4 1 9 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | DIS(TOTAL AREA FT.) 130 50 37 31 28 25 22 20 18 | CHARGE SUB AREA SIN OVER O14 O13 O09 O07 | TOTAL AREA 0.0001111 AREA 0.000111 0.00011 | E |
| TE AR NTH 3 3 4 5 5 6 7 7 8 9 0 1 1 2 | . 1.5 . 0.5 | MAREA 2 | 3 (1) (25 ,03 | 4 NGHE | 5 8) 20 | .12 | 30 | 3UB 9 % 43% .0/ .00 .00 .00 | RA WI AREA 2 3% 07% 07 07 07 07 07 | 3 10 % (),02 | BICHE | 8 12% 9) | 18% | .07 | TOTAL WEIGHTED RAINFALL SUB AREA (IMCHES) 0 15 0.03 | TOTAL WEIGHTED RAINFALL ENTIRE AREA (INCHES) 0.07 0.15 | (FT. 3.707 3.707 3.407 3.601 3.558 3.503 3.503 3.503 3.503 3.503 3.503 3.503 3.503 3.503 | M.S.L.I 6.50 6.36 6.44 6.53 6.24 6.53 6.24 6.53 | SUB AREA (SEC. 7.09532 4.24 2.19 2.13.00 | DIS(TOTAL AREA 130 50 37 31 28 22 20 18 | HIN OVER OLI | TOTAL AREA 64 000319 AREA 0.097 0.14 0.17 0.08 0.08 0.07 0.06 0.06 | E |
| TE AR NTH 3 3 AR 1 2 3 5 5 5 5 7 7 8 9 0 0 1 2 2 3 3 | . 1.5 . 0.5 | MAREA 2 | 3 (1) .25 .03 | 4 NGHE | 20 .10 | .12 | 30 | 3UB 9 % 43% .0/ .00 .00 .00 | RA WI AREA 2 3% 07% 07 07 07 07 07 | 3 10 % (,02 | BICHE | 02 02 | 18% | .07 | TOTAL WEIGHTED RAINFALL BUB AREA CINCHES) 0.15 0.03 | TOTAL WEIGHTED RAINFALL ENTIRE AREA (INCHES) 0.07 0.15 | (FT. 3.70 a.467 a.458 a.47 a.49 a.444 a.47 | M.S.L.J 6.50 6.36 6.36 6.44 6.53 6.24 6.51 6.51 6.51 | (SEC. 7.00 5.5.2 3.04 2.1 9.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1 | DIS(TOTAL AREA FT.) 130 50 37 31 28 25 22 20 18 | CHARGE SUB AREA (IN OVER 1014 O.17 O.17 O.07 O.07 O.05 O.07 O.07 O.07 O.07 O.07 O.07 O.07 O.07 | TOTAL AREA AREA 0.49 0.19 0.14 0.17 0.07 0.08 0.08 0.06 0.06 | E |
| TE 4 R NTH 3 AR 1 2 2 3 4 4 5 5 6 6 7 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | . 1.5° | MAREA 8 | 25 ,03 | GAGE A NGHE | 3) 20 | .20 | 30 | 3UB 9 % 43% .0/ .00 .00 .00 | RA WI AREA 2 2 3 % 57 % 2 0 / 0 0 4 0 7 0 / 0 0 5 | 3 10 % (,022 .01 | A LIBS BICHE | 02 01 | 64 | .07 | TOTAL WEIGHTED RAINFALL 3UB ARIA (INCHES) 0 15 0 03 | TOTAL WEIGHTED RAINFALL ENTIRE AREA (INCHES) 0.07 0.15 | (FT. 3.70) 3.70 3.60 3.60 3.50 3.50 3.40 3.50 3.40 3.40 3.40 3.40 3.40 3.40 3.40 3.4 | M.S.L.J. 6-50 6-36 6-36 6-44 6-55 6-47 7-15 6-51 6-51 6-51 6-51 6-51 6-51 6-51 6 | (SEC. 7.09 5.4.2 4.2 4.2 4.1 9.1.1 2.2 4.1 9.1.1 2.2 4.1 9.1 1.5 1.5 | DIS(TOTAL AREA 130 50 37 31 28 22 20 16 16 17 | CHARGE SUB AREA IN OVER O14 O13 O05 | TOTAL AREA AREA AREA 0.047 0.19 0.14 0.17 0.08 0.08 0.06 0.06 0.06 0.04 0.04 | E |
| TE AR NTH 3 AR 1 2 2 3 4 5 5 6 6 6 | . 1.5° | MAREA 8 | 3 (1) .25 .03 | GAGE A NGHE | 3) 20 | .20 | 30 | 9 \$ 43\$ 00 00 00 00 00 00 00 00 00 00 00 00 00 | RA WI AREA 2 3% 07% 000 000 000 000 000 000 000 000 00 | 3 10% 1,022 001 | A LIBS BICHE | 02 02 | 64 | .07 | TOTAL WEIGHTED RAINFALL BUB AREA CINCHES) 0.15 0.03 | TOTAL WEIGHTED RAINFALL ENTIRE AREA (INCHES) 0.07 0.15 | (FT. 3.700 STATION STA | M.S.L.) 6.50 6.30 6.38 6.44 6.53 6.55 6.65 6.31 6.45 | SUB AREA (SEC. 7.09.3.2.4.1.2.4.1.2.2.4.1.2.2.4.1.2.2.4.1.2.2.1.3.2.4.1.3.4.1. | DISC TOTAL AREA 130 50 50 37 28 22 20 15 15 11 12 11 12 11 12 13 14 15 15 16 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18 | CHARGE SUB AREA IN 0072H (IN 0047 004 005 007 004 005 007 004 005 007 004 005 | TOTAL AREA AREA 0.4 0.011 AREA 0.4 0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | E |
| TE 4 R NTH 3 AR 1 2 2 3 4 4 5 5 6 7 7 | . 1.5° | MAREA 8 | 25 ,03 | GAGE A NGHE | 3) 20 | .20 | 30 | 1433 433 00 00 01 00 04 | RA WIII | 3 10% 1,022 001 | A LIBS BICHE | 02 01 | 64 | .07 | TOTAL WEIGHTED RAINFALL 3UB ARIA (INCHES) 0 15 0 03 | TOTAL WEIGHTED RAINFALL ENTIRE AREA (INCHES) 0.07 0.15 | (FT. 3.70 A. 5.50 A. 5 | M.S.L. 6.50 6.36 6.36 6.36 6.56 6.56 6.56 6.56 6.65 6.65 | SUB AREA (SEC. 7.97 5.3.2.4 1. | DISC TOTAL AREA 130 25 27 28 25 27 28 25 27 16 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18 | ## CA A A B CHARGE SUB AREA ## CO CHARGE SUB AREA ## | TOTAL AREA 1.047 019 019 019 019 019 019 019 019 019 019 | E |
| TE AR NTH 3 3 AR 1 2 2 3 4 5 5 6 7 7 8 9 9 9 | . 1.5° | MAREA 8 | 25 ,03 | GAGE A NGHE | 3) 20 | .20 | 30 | 3UB - 2 % 43% - 00 - 01 - 02 - 00 - 01 - 04 | RA WIII AREA 2 2 3 % 57 % 0.0 2 0.0 0.0 5 | 10% (,022,000 | A LIBS BICHE | 02 01 | 64 | .07 | TOTAL WEIGHTED RAINFALL 3UB ARIA (INCHES) 0 15 0 03 | TOTAL WEIGHTED RAINFALL ENTIRE AREA (INCHES) 0.07 0.15 | (FT. 3.70 A. 5.50 A. 5 | M.S.L. 6.50 6.36 6.36 6.36 6.56 6.56 6.56 6.56 6.65 6.65 | SUB AREA (SEC. 7.97 5.3.2.4 1. | DIS(170TALA AREA AREA AREA AREA AREA AREA AREA A | CHARGE SUB AREA IN 0072H IN 0072H O 17 O 14 O 13 O 07 O 04 O 05 O 07 O 04 O 07 O 04 O 07 O 04 O 07 O 07 O 04 O 07 | TOTAL AREA AREA O.49 O.19 O.17 O.07 O.08 O.08 O.09 O.09 O.09 O.09 O.09 O.09 O.09 O.09 | E |
| TE 4 R NTH 3 3 AR 1 2 2 3 3 4 4 8 8 6 7 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | . 1.5° | MAREA 8 | 25 ,03 | GAGE A NGHE | 3) 20 | .20 | 30 | 948 488 001 001 001 001 001 001 001 001 001 0 | RA WIII | 10% (,022,000 | A LIBS BICHE | 02 01 | 64 | .07 | TOTAL WEIGHTED RAINFALL 3UB ARIA (INCHES) 0 15 0 03 | TOTAL WEIGHTED RAINFALL ENTIRE AREA (INCHES) 0.07 0.15 | (FT. 3.70 A. 5.50 A. 5 | M.S.L. 6.50 6.36 6.36 6.36 6.56 6.56 6.56 6.56 6.65 6.65 | SUB AREA (SEC. 7.97 5.3.2.4 1. | DIS(1) 1300 500 37 28 25 20 20 18 16 15 4 8 5 5 7 6 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | CHARGE SUB AREA IN OVER OLD | TOTAL AREA AREA AREA AREA AREA AREA AREA AR | E |
| TE AR NITH 3 3 AR 1 2 2 3 5 6 6 7 7 6 9 9 1 1 2 2 3 5 6 6 7 7 6 9 9 1 1 2 2 3 5 6 6 7 7 6 9 9 1 1 2 2 3 5 6 6 6 7 7 6 9 9 9 1 1 2 2 3 5 6 6 6 7 7 6 9 9 9 1 1 2 2 3 5 6 6 6 7 7 6 9 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | . 1.5° | MAREA 8 | 25 ,03 | GAGE A NGHE | 3) 20 | .20 | 30 | 318 - 2 3 433 - 00 - 00 - 00 - 00 - 00 - 00 - 00 - | RA WI AREA 2 2 3 % 5 7 % 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 10% (,022,000 | A LIBS BICHE | 02 01 | 64 | .07 | TOTAL WEIGHTED RAINFALL 3UB ARIA (INCHES) 0 15 0 03 | TOTAL WEIGHTED RAINFALL ENTIRE AREA (INCHES) 0.07 0.15 | ST UPPER STATION (FT. 3.70 a.4.75.50 | M.S.L.I 6.50 6.36 6.36 6.36 6.36 6.36 6.36 6.36 6.3 | SUB AREA 7.99 5.32 4.14 0.24 1.27 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 | DIS(1) TOTAL AREA 1300 237 28 25 22 20 18 16 17 19 19 19 19 19 19 19 19 19 19 19 19 19 | CHARGE SUB AREA (IN OVER 10 11 11 11 11 11 11 11 11 11 11 11 11 | TOTAL AREA AREA O.49 O.19 O.17 O.07 O.08 O.08 O.09 O.09 O.09 O.09 O.09 O.09 O.09 O.09 | E |
| TE AR NTH 3 3 AR 1 2 2 3 4 4 5 5 6 7 7 6 9 9 10 11 2 3 3 4 4 5 6 6 7 7 7 6 9 9 10 11 2 3 3 3 4 4 5 6 6 7 7 7 7 8 9 9 10 11 2 3 3 3 4 4 5 6 6 7 7 7 8 9 9 10 11 2 3 3 3 4 4 5 6 6 7 7 7 8 9 9 10 11 2 3 3 3 3 4 4 5 6 6 7 7 7 8 9 9 10 11 2 3 3 3 3 4 4 5 6 6 7 7 7 8 9 9 10 11 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | . 1.5° | MAREA 8 | 25 ,03 | GAGE A NGHE | 3) 20 | .20 | 30 | 948 9 \$ 488 00 00 00 00 00 00 00 00 00 00 00 00 00 | RA WI AREA 2 2 3 % 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 10% (,022,000 | A LIBS BICHE | 02 01 | 64 | .07 | TOTAL WEIGHTED RAINFALL 3UB ARIA (INCHES) 0 15 0 03 | TOTAL WEIGHTED RAINFALL ENTIRE AREA (INCHES) 0.07 0.15 | STATION STATIO | M 9. L) 6 500 6 366 6 36 6 36 6 46 6 53 6 54 6 53 6 54 6 53 6 54 6 53 6 54 6 51 6 45 6 45 6 45 6 45 6 45 6 45 6 45 6 45 | SUB AREA 7.99 5.32 4.14 0.24 1.27 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 | DIS(1) TOTAL AREA 1300 237 28 25 22 20 18 16 17 19 19 19 19 19 19 19 19 19 19 19 19 19 | CHARGE SUB AREA IN OVER OLD | TOTAL AREA AREA AREA O 47 O 19 O 14 O 17 O 19 O 10 | E |
| TE AR NTH 3 3 AR 1 2 2 3 4 4 5 5 6 7 7 6 9 9 10 11 2 3 3 4 4 5 6 6 7 7 7 6 9 9 10 11 2 3 3 3 4 4 5 6 6 7 7 7 7 8 9 9 10 11 2 3 3 3 4 4 5 6 6 7 7 7 8 9 9 10 11 2 3 3 3 4 4 5 6 6 7 7 7 8 9 9 10 11 2 3 3 3 3 4 4 5 6 6 7 7 7 8 9 9 10 11 2 3 3 3 3 4 4 5 6 6 7 7 7 8 9 9 10 11 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | . 1.5° | MAREA 8 | 25 ,03 | GAGE A NGHE | 3) 20 | .20 | 25 | 318 - 2 3 433 - 00 - 00 - 00 - 00 - 00 - 00 - 00 - | RA WI AREA 2 2 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 | 10% (,022,000 | A LIBS BICHE | 02 01 | 64 | 07 | TOTAL WEIGHTED RAINFALL SUB AREA (INCHES) 0.15 0.03 | TOTAL WEIGHTED RAINFALL ENTIRE AREA (INCHES) 0.07 0.15 | (FT. 3.70 mm s 1.40 mm s 1 | M.S.L.I G. 500 G.36 G.44 G.53 G.45 G.45 G.51 G.51 G.51 G.45 G.45 G.45 G.45 G.45 G.45 G.45 G.45 | SUB AREA 7.99 5.32 4.14 0.24 1.27 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 | DIS(1) TOTAL AREA 1300 237 28 25 22 20 18 16 17 19 19 19 19 19 19 19 19 19 19 19 19 19 | CHARGE SUB AREA (IN OVER CO.) 1 O. 14 O. 15 O. 1 | TOTAL AREA AREA 0.49 0.19 0.14 0.17 0.07 0.08 0.08 0.09 0.09 0.09 0.09 0.09 0.09 | E |
| 1 2 3 4 5 5 6 6 7 7 8 9 9 9 1 1 2 2 3 3 4 4 5 6 6 7 7 8 9 9 1 1 2 2 3 3 4 4 5 5 6 6 7 7 8 9 9 9 1 1 1 2 2 3 3 4 4 5 6 6 7 7 8 9 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | . 1.5 . 0.5 . 0.5 | MAREA 8 | 25 ,03 | GAGE A NGHE | 3) 20 | .20 | 30 | 318 - 2 3 433 - 00 - 00 - 00 - 00 - 00 - 00 - 00 - | RA WI AREA 2 2 3 % 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 10% (,022,000 | A LIBS BICHE | 02 01 | 64 | 07 .06 .06 | TOTAL WEIGHTED RAINFALL 3UB AREA (INCHES) 0.15 0.03 | TOTAL WEIGHTED RAINFALL ENTIRE AREA (INCHES) 0.07 0.15 | (FT. 3.70 3.70 3.70 3.58 3.58 3.58 3.65 3.67 3.69 3.69 3.69 3.70 3.69 3.70 3.70 3.70 3.70 3.70 3.70 3.70 3.70 | M.S.U. 6.500 6.366 6.366 6.366 6.416 6.516 6.416 6.366 6.416 6.416 6.366 6.416 6.366 6.416 6.366 6.416 6.366 6.416 6.366 6.416 6.366 6.416 6.366 6.416 6.366 6.416 6.366 6.416 6.366 6.416 6.366 6.416 6.366 6.416 6.366 6.416 6.366 6.416 6.366 6.416 6.366 6.416 6.366 6.416 | SUB AREA (SEC. 7.09 5.2.2 3.4.4.2.1.1.2.1.2.1.2.1.2.1.2.1.2.1.2.1.2 | DIS(1) TOTAL AREA AREA AREA AREA AREA AREA AREA AR | CHARGE SUB AREA IN OVER OIT OIT OIT OIT OOT OOT OOT OOT OOT OOT | TOTAL AREA AREA AREA AREA O 4 7 O 19 O 14 O 17 O 0 8 O 0 1 O 0 1 O 0 1 O 0 1 O 0 2 O 0 3 | E |
| TE AR 1 2 2 3 4 4 5 6 6 7 7 8 9 9 10 1 1 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 | . 1.5° | MAREA 8 | 25 ,03 | GAGE A NGHE | 20 .10 .05 | .20 | 35 | 318 - 2 3 433 - 00 - 00 - 00 - 00 - 00 - 00 - 00 - | RA WI AREA 2 2 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 | 10% (,022,000 | A LIBS BICHE | 02 01 | 04 | 07 .06 .06 | TOTAL WEIGHTED RAINFALL 3UB AREA (INCHES) 0.15 0.03 | TOTAL WEIGHTED RAINFALL ENTIRE AREA (INCHES) 0.07 0.15 | STATION STATIO | M.S.L.I 6 500 6 36 6 44 6 53 6 44 6 53 6 47 6 51 6 47 6 31 6 48 6 34 6 51 6 47 6 31 6 48 6 34 6 51 6 48 6 51 6 51 6 51 6 51 6 51 6 51 6 51 6 51 | SUB AREA (SEC. 7.0 5.3.2 4.3.2.4 2.1.1.2.1.1.2.1.1.4.2.1.1.1.1 | DIS(1) TOTAL AREA 1300 237 28 252 20 18 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18 | CHARGE SUB AREA (IN OVER 1014 O.13 A.16 A.16 A.16 A.16 A.16 A.16 A.16 A.16 | TOTAL AREA AREA 0.49 0.19 0.14 0.17 0.07 0.08 0.08 0.08 0.09 0.09 0.09 0.09 0.09 | E |
| 1 2 3 4 4 5 6 7 7 8 9 9 1 1 1 2 2 3 3 4 4 5 5 6 6 7 7 8 9 9 1 1 1 2 2 3 3 4 4 5 6 6 7 7 8 9 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | . 1.5 . 0.5 . 0.5 | MAREA 8 | 25 ,03 | GAGE 4 NOHE 15 05 | 20 .10 .05 | .20 | 25 .25 | 318 - 2 3 433 - 00 - 00 - 00 - 00 - 00 - 00 - 00 - | RA WI AREA 2 2 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 | 10% (,022,000 | DAGE OAGE INSTERNATION OOL OOL OOL OOL OOL OOL OOL | 02 01 | 64 | 07 .06 .06 | TOTAL WEIGHTED RAINFALL 3UB AREA (INCHES) 0.15 0.03 | TOTAL WEIGHTED RAINFALL ENTIRE AREA (INCHES) 0.07 0.15 | STATION STATIO | M.S.L.I 6 500 6 36 6 44 6 53 6 44 6 53 6 47 6 51 6 47 6 31 6 48 6 34 6 51 6 47 6 31 6 48 6 34 6 51 6 48 6 51 6 51 6 51 6 51 6 51 6 51 6 51 6 51 | SUB AREA (SEC. 7.0 5.3.2 4.3.2.4 2.1.1.2.1.1.2.1.1.4.2.1.1.1.1 | DIS(1) TOTAL AREA AREA AREA AREA AREA AREA AREA AR | CHARGE SUB AREA IN OVER OIT | TOTAL AREA AREA AREA AREA AREA AREA AREA AR | E |
| TE 4 P P P P P P P P P P P P P P P P P P | . 15 . as . as | MAREA 8 | 25 ,03 | 15 | 20 05 08 | .20 | 30 25 .25 .25 | 318 - 2 3 433 - 00 - 00 - 00 - 00 - 00 - 00 - 00 - | RA WI AREA 2 2 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 | 10% (,022,000 | DAGE OAGE INSTERNATION OOL OOL OOL OOL OOL OOL OOL | 02 02 01 01 | 04 | 07 .06 .06 | TOTAL WEIGHTED RAINFALL SUB AREA (INCHES) 0 15 0.03 0.03 0.03 0.04 0.11 | TOTAL WEIGHTED RAINFALL ENTIRE AREA (INCHES) 0.07 0.15 | (FT. 3.70 a.47 a.47 a.47 a.47 a.47 a.47 a.47 a.47 | M.S.L.I 6.50 6.36 6.36 6.36 6.44 6.53 6.47 6.51 6.45 6.31 6.41 6.31 6.41 6.31 6.41 6.41 6.41 6.41 6.41 6.41 6.41 6.4 | (SEC. 7.07 5.3.2 4.1.9 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1 | DIS(1) TOTAL AREA AREA AREA AREA AREA AREA AREA AR | ## CA A A A CHARGE SUB AREA ## CHARGE SUB AREA ## | TOTAL AREA 64.000111 60.01 60.1 | E CIN |
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U.S.D.A. - AGRICULTURAL RESEARCH SERVICE - FORT LAUDERDALE, FLORIDA GOOPERATINS WITH

CENTRAL AND SOUTHERN FLORIDA FLOCO CONTROL DISTRICT & UNIVERSITY OF FLORIDA, AGRICULTURAL EXPERIMENT STATION

MONTHLY HYDROLOGIC DATA UPPER TAYLOR CREEK WATERSHED

FLORIDA WATERSHED W-2 8 3

| - | | | | | | | | | INFA | | | | | T. Market | | ST | | 271.0 | | HARGE | Town. | ٠. |
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| | _ | 3 | GARE 4 | 0 | 6 | 7 | | RA WI | INFA | GAGE 4 | 5 | | 7 | WEIGHTED | WEIGHTED | UPPER: | LOVEN | | TOTAL | HARGE SUB AMES | TOTAL | |
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| -V | H H | Ř | SAGE SAGE | 10 | M 25 | .15 | 9 % 43 % .0d .00 .01 .1 % .03 .04 .13 | RA WE AREA 2 13 % 17 % 17 % 17 % 17 % 17 % 17 % 17 % | INFA | O RI OAGE 6 IIST NOHE | 5 12% 0 | 64 | 03 | WEIGHTED BANKALL 3UB AREA (INGMES) 0.17 0.02 0.06 0.10 1.12 | PROPERTY OF THE AMEA LINCHEST OF THE AMEA CONCRETE | 171 3.70 3.68 3.51 3.47 3.47 3.47 3.47 3.47 3.47 3.47 3.47 | M S L I A A A A A A A A A A A A A A A A A A | 48EA 43.7.4.3.1.4.7.9.1.1.9.1.9.1.9.1.9.1.9.1.9.1.9.1.9.1 | TOTAL AREA 16 14 11 9.55 7.64 9.65 9.64 9.65 9.64 9.65 9.64 9.65 9.64 9.65 9.64 9.65 9.64 9.65 9.64 9.64 9.64 9.64 9.64 9.64 9.64 9.64 | HARGE 3UB AREA 6N. OVER 6N. OV | TOTAL AREA 100 | E The Contract of the Contract |
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| - 42 - 42 - 42 - 43 - 43 - 43 - 43 - 43 - 43 - 43 - 43 | H H | 3 R U | 30 9.05 9.5 | 10 12 | M 25 | .15 | 9 % 00 00 00 00 00 00 00 00 00 00 00 00 0 | RA WI AREA 2 3 % 57 % 01 11 10 20 01 01 01 01 01 01 01 01 01 0 | INFA EIGHTII IO % | O RI OS | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 64 | 03 | WEIGHTED BANKALL 3UB AREA (INCHES) | WEIGHTED RAINFALL ENTIRE AREA INCHEZI | 3.700 3.700 3.500 | M SLI 4 91 4 91 4 87 4 87 4 87 4 87 4 87 4 76 4 76 4 76 | 48EA 45 45 45 45 45 45 45 45 45 45 45 45 45 | TOTAL AREA 16 14 11 9.55 7.64 9.65 9.64 9.65 9.64 9.65 9.64 9.65 9.64 9.65 9.64 9.65 9.64 9.65 9.64 9.64 9.64 9.64 9.64 9.64 9.64 9.64 | HARGE SUB AREA SUB AR | TOTAL AREA 60 7 / 100 5 40 9 100 2 0 | E IN LEASE OF LAND AS A COMMENT OF THE PERSON OF THE PERSO |
| - 42 - 42 - 42 - 43 - 43 - 43 - 43 - 43 - 43 - 43 - 43 | ## 100 S.J. 155 45 | 3 R U | 30 9.05 9.5 | 10 12 | . 25 | .15 | 9 % 00 00 00 00 00 00 00 00 00 00 00 00 0 | RA WI AREA 2 3 % 57 % 01 11 10 20 01 01 01 01 01 01 01 01 01 0 | INFA EIGHTII IO % | O RI OS | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 04 | 03 | WEIGHTED RAMFALL SUB AREA (INGNES) 0.17 0.02 0.00 1.12 0.13 | WEIGHTED RAINFALL ENTRE AREA INCHES O. | (F1. 57.704 6.504 7.504 | M SLI 4 91 4 91 4 87 4 87 4 87 4 87 4 87 4 76 4 76 4 76 | 4.4.4.2.2.4.4.1.4.1.4.1.4.1.4.1.4.1.4.1. | 70TAL AREA 18 14 11 19 65 64 64 64 64 64 64 64 64 64 64 64 64 64 | HARGE SUB AREA SUB AR | TOTAL AREA 60 7 / 100 5 40 9 100 2 0 | E IN LEASE OF LAND AS A COMMENT OF THE PERSON OF THE PERSO |
| - 42 - 42 - 42 - 43 - 43 - 43 - 43 - 43 - 43 - 43 - 43 | ANEA A A A A A A A A A A A A A A A A A A | 3 R U | 30 9.05 9.5 | 10 12 | . 25 | .15 | 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | RA WE AREA ST | INFA EIGHTII IO % | O RI OS | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 04 | 03 | WEIGHTED BANKALL 3UB AREA (INGHES) 0.17 0.02 0.06 0.10 1.12 0.13 | WEIGHTED RAINFALL ENTIRE AREA INCHEZI | UF1 3.704 3.504 3. | M.S.L.I 2.917 5.00 6.00 4.917 4.817 4.817 4.817 4.817 4.817 4.716 | 477444 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | TOTAL AREA FT. 1 18 14 15 15 16 16 16 17 16 16 17 17 17 17 | HARGE SUB AREA (III) OF COLUMN | TOTAL AREA I | E IN LEASE OF LAND AS A COMMENT OF THE PERSON OF THE PERSO |
| - 42 - 42 - 42 - 43 - 43 - 43 - 145 | .10 .87 | 3 R () | 30 9.5 9.5 9.5 | 10 12 | -10 160 -10 -10 | 100 | 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | RA WE AREA ST | .01 | 04 04 04 04 04 04 04 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 02 18 | 03 | WEIGHTED RAMFALL SUB AREA (INGNES) 0.17 0.02 0.00 1.12 0.13 | 0.04 0.09 0.09 0.09 0.09 0.09 0.09 0.09 | ###################################### | M S L I G G G G G G G G G G G G G G G G G G | SEO 7743 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | TOTAL AREA 1 1 1 1 1 1 1 1 1 | HARGE SUB AREA (III) OCC (| TOTAL AREA 100 7 100 4 100 2 1 | E IN LEASE OF LAND AS A COMMENT OF THE PERSON OF THE PERSO |
| -3 651 988 | .10 .55 .10 | 3 R () | 30 9.05 9.5 | 10 12 | . 25 | 100 | 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | RAA WE AREA 2 2 13 % 57 % 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | .01 | O RI OS | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 04 | 03 | WEIGHTED RAMFALL SUB AREA (INGNES) 0.17 0.02 0.00 1.12 0.13 | WEIGHTED RAINFALL ENTRE AREA INCHES O. | ###################################### | M S L I A 9 | SEO 7743 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | TOTAL AREA 16 14 17 16 14 17 16 16 16 16 16 16 16 | HARGE SUB AREA (III) OCC (| TOTAL AREA 100 T 1 | E |
| - 42 - 42 - 42 - 43 - 43 - 43 - 43 | .10 .87 | 30 .30 | 30 9.5 9.5 9.5 | 10 15 15 12 12 17 17 17 17 17 17 17 17 17 17 17 17 17 | -10 160 -10 -10 | 100 | 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | RAA WE AREA 2 2 3 3 3 3 5 7 3 5 7 3 5 7 3 5 7 3 5 7 3 5 7 3 5 7 3 5 7 3 5 7 3 7 3 | .01 | 04 04 04 04 04 04 04 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 02 18 | 03 | WEIGHTED RAMFALL SUB AREA (INGNES) 0.17 0.02 0.00 1.12 0.13 | 0.04 0.09 0.09 0.09 0.09 0.09 0.09 0.09 | ###################################### | M.S.L.I M.S.L.I J. 91 J. 91 | SEO 7743 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | TOTAL AREA 11 18 11 18 11 18 11 18 11 18 | HARGE 308 AREA 60.00 OVER 60.00 O | TOTAL AREA 100 | E CHI CAN A |
| 05 15 15 10 130 145 | .10 .8.7 .10 .8.7 | 3 R U | 38 9.5 9.5 | 10 12 | -10 160 -10 -10 | 100 | 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | RAA WE AREA 2 2 3 3 3 3 5 7 3 5 7 3 5 7 3 5 7 3 5 7 3 5 7 3 5 7 3 5 7 3 5 7 3 7 3 | .01 | 0 R/ 0AGE 4 113 % 113 % 113 % 113 % 113 % 113 % | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 02 18 | 03 | WEIGHTED RAMFALL SUB AREA (INGNES) 0.17 0.02 0.00 1.12 0.13 | ### WEIGHTED #################################### | 3700 3,700 3,504 3 | MSLU 291 497 500 497 487 487 487 487 487 487 487 487 487 48 | 477444 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | TOTAL AREA 11 18 11 18 11 18 11 18 11 18 | HARGE 3UB AREA 600 OF AREA 600 | TOTAL AREA 100 7 | E CHI CHEN TO LEGATE TO LE |
| - 42 - 42 - 42 - 43 - 43 - 43 - 43 | .10 .8.7 .10 .8.7 | 30 .30 | 38 9.5 9.5 | 10 15 15 12 12 17 17 17 17 17 17 17 17 17 17 17 17 17 | -10 160 -10 -10 | 100 | 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | RAA WE AREA 2 2 3 3 3 3 5 7 3 5 7 3 5 7 3 5 7 3 5 7 3 5 7 3 5 7 3 5 7 3 5 7 3 7 3 | .01 | 04 04 04 04 04 04 04 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 02 18 | 03 | WEIGHTED RAMFALL SUB AREA (INGNES) 0.17 0.02 0.00 1.12 0.13 | 0.04 0.09 0.09 0.09 0.09 0.09 0.09 0.09 | 3700 3.700 3 | MSLU 291 497 500 497 487 487 487 487 487 487 487 487 487 48 | SEO 7743 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | TOTAL AREA FT. 18 14 17 18 14 17 18 14 17 18 18 18 18 18 18 18 | HARGE 3UB AREA 600. OVER 601. OVER 6 | TOTAL AREA | E THE LEASE WATER BOTH THE PARTY OF THE PART |
| 05 15 15 10 130 145 | .10 .8.7 .10 .8.7 | 3 R U | 38 9.5 9.5 | 10 15 15 12 12 17 17 17 17 17 17 17 17 17 17 17 17 17 | -10 160 -10 -10 | 100 | 19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | RA WI AREA 3 % 3 % 3 % 3 % 3 % 3 % 3 % 3 % 3 % 3 | .01 | 0 R/ 0AGE 4 113 % 113 % 113 % 113 % 113 % 113 % | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 02 18 | 03 | WEIGHTED RAMFALL SUB AREA (INGNES) 0.17 0.02 0.00 1.12 0.13 | ### WEIGHTED #################################### | 3.700 3.700 3.700 3.63 3.63 3.63 3.63 3.63 3.63 3.63 3. | HSLI 1915 1916 1916 1916 1916 1916 1916 1916 | 1920 4.7.4.4 2.1.1.5.4 1.2.2.4 1.2.2.4 1.2.2.4 1.2.2.4 1.2.2.4 1.2.2.4 1.2.2.4 1.2.4 1.2.4 1.2.4 1.2.4 1.2.4 1.4.4 | TOTAL AREA FT. 18 14 17 18 14 17 18 14 17 18 18 18 18 18 18 18 | HARGE 3UB AREA (IN OVER 1997) (IN OV | TOTAL AREA 100 | E CHANGE AND A COMMENT OF THE PROPERTY OF THE |
| - 42 - 42 - 43 - 43 - 43 - 43 - 43 - 43 - 43 | .10 .5.2 .10 .10 | 3 R () () () () () () () () () () () () () | 30 30 37 37 37 | 10 15 15 12 12 17 17 17 17 17 17 17 17 17 17 17 17 17 | -10 160 -10 -10 | 100 | 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | RA WI AREA 3 % 3 % 3 % 3 % 3 % 3 % 3 % 3 % 3 % 3 | .01 | 04 040E 13 % NGHE | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 02 18 | 03 | #EIGHTED RAMPALL (MIGHES) ### (| WEIGHTED RAINFALL ENTINE APEA INCHES O. | 37.00 A 3.45 A 3.75 A 3 | STATION STAT | 18E0. 4.7. 4.7. 4.7. 4.7. 4.7. 4.7. 4.7. 4. | TOTAL AREA FT. 18 14 17 18 14 17 18 14 17 18 18 18 18 18 18 18 | HARGE SUB AREA (NO. OVER AREA (NO. O | TOTAL MEA AREAJ (60 7 / 10.5 / | E CONTRACTOR OF THE PROPERTY O |
| 05 15 15 165 | .10 .5.2 .10 .10 | 3 R () () () () () () () () () () () () () | 38 9.5 9.5 | 10 15 15 12 12 17 17 17 17 17 17 17 17 17 17 17 17 17 | -10 160 -10 -10 | 100 300 | 19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | RA WI AREA 3 % 3 % 3 % 3 % 3 % 3 % 3 % 3 % 3 % 3 | .01 | 0 R/ 0AGE 4 113 % 113 % 113 % 113 % 113 % 113 % | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 02 18 | 02 12 36 07 | WEIGHTED RAMFALL SUB AREA (INGNES) 0.17 0.02 0.00 1.12 0.13 | WEIGHTED RAINFALL ENTINE APEA INCHES O. | 37.00 A 3.45 A 3.75 A 3 | STATION STAT | 1950 4.7.4.2.4.1.2.1.2 | TOTAL AREA FT. 18 14 17 18 14 17 18 14 17 18 18 18 18 18 18 18 | HARGE 598 ARTE A 681 OVER 500 OF 100 | 10TAL MEAN AREA AREA AREA AREA AREA AREA AREA A | E CONTRACTOR OF THE PROPERTY O |
| - 46 - 45 - 15 - 15 - 15 - 15 - 15 - 15 - 15 - 1 | .10 .5.2 .10 .10 | 3 R () () () () () () () () () () () () () | 30 30 37 37 37 | 10 15 15 12 12 17 17 17 17 17 17 17 17 17 17 17 17 17 | -10 160 -25 | 100 | 19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | RA WI AREA 3 % 3 % 3 % 3 % 3 % 3 % 3 % 3 % 3 % 3 | .01 | 04 040E 13 % NGHE | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 070 | 02 12 12 07 | #EIGHTED RAMPALL (MIGHES) ### (| WEIGHTED RAINFALL ENTINE APEA (INCHES) CO O O O O O O O O O O O O O O O O O | 37.00 A 3.45 A 3.75 A 3 | STATION STAT | 1950 4.7.4.2.4.1.2.1.2 | TOTAL AREA FT. 18 14 17 18 14 17 18 14 17 18 18 18 18 18 18 18 | HARGE 598 AREA 690 (90 C) 200 (10 | TOTAL MAREA AREA AREA AREA AREA AREA AREA ARE | EIN / PRINT |
| - 46 - 46 - 45 - 15 - 15 - 15 - 15 - 15 - 15 - 15 - 1 | .10 .5.2 .10 .10 | 3 R () () () () () () () () () () () () () | 30 30 37 37 37 | 10 15 15 12 12 17 17 17 17 17 17 17 17 17 17 17 17 17 | -10 160 -10 -10 | 100 300 | 19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | RA WI AREA 3 % 3 % 3 % 3 % 3 % 3 % 3 % 3 % 3 % 3 | .01 | 04 040E 13 % NGHE | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 070 | 02 12 36 07 | #EIGHTED RAMPALL (MIGHES) ### (| WEIGHTED RAINFALL ENTINE APEA INCHES O. | 171 3.70 3.70 3.70 3.70 3.70 3.70 3.70 3.70 | STATION STAT | 18E0. 4.7. 4.7. 4.7. 4.7. 4.7. 4.7. 4.7. 4. | TOTAL AREA FT. 18 14 17 18 14 17 18 14 17 18 18 18 18 18 18 18 | HARGE 598 ARTE A 681 OVER 500 OF 100 | TOTAL AREA N. IMERIA AREA N. IMERIA AREA N. IMERIA N. | E CIN / TEN S - NO SES - NO SE |
| 05 15 15 165 165 165 | .10 .87 .15 .15 .15 .15 | 3 R 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 38 .05 95 .12 .12 .10 | 10 10 15 12 12 12 12 12 12 12 12 12 12 12 12 12 | .10 160 160 160 160 | 100 | 04 00 00 01 01 01 01 01 01 02 03 04 04 04 04 04 04 04 04 04 04 04 04 04 | RA WI AREA 2 2 3 % ST 8 11 11 10 10 10 10 10 10 10 10 10 10 10 | .01 | 0 A G G G G G G G G G G G G G G G G G G | 5 00 00 00 00 00 00 00 00 00 00 00 00 00 | 02 00 00 00 00 00 00 00 00 00 00 00 00 0 | 02 12 12 07 | #EIGHTED RAMPALL (MIGHES) ### (| WEIGHTED RAINFALL ENTINE APEA (INCHES) CO O O O O O O O O O O O O O O O O O | 37.00 A 3.45 A 3.75 A 3 | M S L J J J J J J J J J J J J J J J J J J | 48EA (SEC. 19.7.4.4.7.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1 | 10 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | HARGE 598 AREA 698 OVER 698 OV | TOTAL MAREA AREA AREA AREA AREA AREA AREA ARE | |

PART III

Monthly Hydrologic Data

Monreve Ranch (W-4)

10/1/62 - 9/30/63

U.S.D.A - AGRICULTURAL RESEARCH SERVICE - FORT LAUDERDALE, FLORIDA COOPERATING WITH

CENTRAL AND SOUTHERN FLORIDA FLOOD CONTROL DISTRICT & UNIVERSITY OF FLORIDA , AGRICULTURAL EXPERIMENT STATION

MONTHLY HYDROLOGIC DATA MONREVE RANCH

FLORIDA WATERSHED W-4

| DATE | | | | | | RAINF | ALL | | | | | STA | AGE | IRRIG | ATION | RU | NOFF | EVAP. |
|--------------|-------|-------|-----------|---------|------|-------|--------|-----------|----------|------|-------------------|-----------|--------|-----------|---------------|--------|-------------|--------|
| OCT MONTH | M | EASUR | | RAINFAL | L | w | EIGHTE | | AINFAL | _ | TOTAL WEIGHTED | ST. LUCIE | OUTLET | CFS X HRS | (.00617)(CFS) | OUTLET | 005171(GFS) | STD. |
| YEAR | | 2 | GAGE 3 | 4 | 5 | ι | 2 | GAGE 3 | _4 | 5 | RAINFALL | l one: | | | | | | |
| | | - (1 | NCHES | 1 | | 18 % | | 16 % | 24% | 25% | (INCHES) | (FT. | MSL) | (CFS) | (IN. / AREA) | (CFS) | (IN/AREA) | INCHES |
| - | | | TO THE C | .05 | | _ | | | .01 | | 001 | 15.13 | 16 70 | - 2 | 1 | 19 | -117 | .07 |
| 2 | - | | | . 03 | | _ | | | .07 | | 0.0 | 15.17 | 16.67 | | 1 | 17 | .105 | 15 |
| 3 | | | | | | | - | | | _ | | 15.19 | 1662 | | | 14 | .084 | 1.1 |
| 4 | | | | - | | i . | 1 - | | | | | 15.16 | 14.58 | | 1 | 12 | c74 | :9 |
| 5 | | | | | 1 | | | | | | | 15 25 | 14.55 | | 1 | 10 | 062 | 09 |
| 6 | | | | | 1 1 | | Ī | | | | | 15 27 | 1652 | | 1 | 88 | .054 | 09 |
| 7 | | | | | | | | | | | | 15.24 | 1699 | 1 | - | 76 | .047 | 19 |
| - 8 | | - 10 | | | | | | | | | | 15 24 | 16 97 | / | - | 49 | 043 | .17 |
| 9 | .03 | 05 | | | i . | .01 | ,01 | _ | | | 002 | 15.33 | 16 44 | - | | 60 | 037 | 117 |
| 10 | | | | - | | _ | _ | _ | | | | 15 24 | 16 39 | - | 1 | 39 | 024 | 18 |
| 11 | | | | | - | | _ | | | - | - | 15 29 | 16 29 | | | 2.6 | .016 | 113 |
| 12 | .05 | _ | 25 | | 10 | 01 | | 04 | | 02 | 0.09 | 15 25 | 16 28 | 1 | | 2.5 | 015 | 15 |
| 14 | . 03 | | 25 | .10 | . ua | 01 | - | 04 | 02 | DZ | 0.02 | 15 24 | 16 21 | 1 | 3. | 1.6 | 010 | 06 |
| 15 | | - | - | .10 | | | - | | 02 | | 002 | 15 22 | 16 20 | - 3 | | 15 | .009 | .09 |
| 16 | | - 1 | - | - | .05 | - | _ | . — | | .01 | 001 | 15.25 | 16 22 | - 1 | | 17 | 010 | -0 |
| 17 | | .05 | .10 | | | | .01 | .02 | | | 0 03 | 15 90 | 16 21 | | 1 | 16 | 010 | .16 |
| 18 | | | 110 | | | | | | | | | 15.55 | 15-21 | 1 | | 16 | 010 | 21 |
| 19 | | | | | | | | | | | | 15.31 | 16 19 | / | | 14 | 009 | .08 |
| 20 | | | | | | | 1 | | | | | 15.15 | 16:7 | | 1 | 12 | .007 | 19 |
| 21 | | | | | | | | | | | | 15.18 | 16.15 | | | 11 | 007 | 16 |
| 22 | .05 | .10 | .10 | .10 | -05 | .01 | 02 | 02 | 02 | 01 | 0 08 | 15 25 | 16 13 | 1 | 1 | 10 | .006 | .13 |
| 23 | | | | | | | 1 | | | | | 15.25 | 1613 | 1 - | - 1 | 10 | colo | 16 |
| 24 | | | | | | _ | 1 | _ | | | | 15.12 | 1612 | - | 1 | .9 | 005 | 12 |
| 25 | | | | | | | | | | | - | 1520 | 16 10 | 126 | | - 8 | 30.5 | 14 |
| 26 | | | | | | _ | - | | | | | 15.13 | 1614 | 12.5° | . 475 | 12 | 007 | 17 |
| 27 | | | | 1 | | _ | | | - | - | - | 15.15 | 16 93 | 3.5 | OAT | 57 | 035 | 18 |
| 28 | | | | | | - | - | | | | | 14.95 | 16.73 | 0.2 | 055 | 2.5 | 033 | 12 |
| 29 | | | | | | | | | i | - | | 15.10 | 16.25 | 92 | 0.55 | | 312 | 15 |
| 30 | _ | - | | - | | | - | | - | | | 15.28 | 16.20 | | - markets | 20 | 007 | 06 |
| | a . 1 | 0.00 | 000 | 0.25 | | 0.03 | 4.00 | 0.00 | 007 | 0.04 | 0.26 | 13.20 | 4 (0 | 52.7 | .220 | 1506 | .927 | 709 |
| IAL | 0.19 | | 0 27 | | 020 | 003 | POT | 000 | <u> </u> | DOA | U. 26 | | | 2217 | | DA ARS | JULY (BAS) | 7. |

| DATE | | | | | | RAINF | ALL | | | | | ST/ | \GE | IRRIG | ATION | RU | NOFF | EVAF |
|-------|-----|-------|------|---------|--------|----------|--------|-----------|--------|-----|-------------------|--------------------|--------|-----------|--------------|-------|---------------|-------|
| MONTH | N | EASUR | | RAINFAL | L | W | EIGHTE | | AINFAL | L | TOTAL WEIGHTED | ST. LUCIE CANAL | OUTLET | CFS X HRS | (.00617XcF5 | | 00617XCFS | |
| YEAR | | 2 | GAGE | 4 | . 5 | | 2 | GAGE 3 | 4 | 5 | RAINFALL | CANAL | WEIR | | | WEIR | | PAN |
| | | - (1 | NCHE | 10 | - | 18 % | | INCHES | | 25% | (INCHES) | (FT | MSL) | (CFS) | (IN. / AREA) | (GFS) | (IN/ARFA) | INCHE |
| | .20 | | .15 | .20 | .20 | 04 | | .02 | | .05 | 0.19 | 1523 | 16 12 | 1010 | UIL. FRICERY | 0.9 | ALTER ANTE AN | . 11 |
| 2 | | | | . =0 | 1.50 | 1 | | UPE | | .02 | 0.11 | 1503 | 1609 | | 1 | . 8 | .005 | .10 |
| 3 | | | | | | | | | - | | | 1497 | 16 08 | 1 | A. | - 7 | 004 | 07 |
| 4 | | | | | | | | | | | | 1503 | 1607 | 1 | | . 7 | 000 | .12 |
| 5 | | | | | | | | | | | | 14 98 | 16 06 | | | 6 | 204 | 07 |
| 6 | | | | | | _ | - | | | | | 15.12 | 16 05 | 75 | .045 | 6 | 0.04 | 10 |
| 7 | | | | | 10 | - | | | | | | 1501 | 16 12 | 6.7 | .640 | 9 | 0.06 | 10 |
| 9 | 20 | | .10 | .20 | .10 | .01 | 02 | 50 | 01 | .02 | 0.08 | 14.95 | 16 10 | | - | . 8 | 00.5 | 10 |
| 10 | .20 | -/5 | 17.7 | .20 | · < C) | 04 | ,03 | 0.1 | 05 | 0.5 | 0 20 | 15 35 | 16 12 | - 1 | | 7 | 0.06- | 11 |
| 11 | | | | - | | | - | | | | | 15 22 | 16.07 | - | | 4 | 004 | 13 |
| 12 | | | | - | | \vdash | | - | | _ | _ | 15.17 | 1607 | 83 | .050 | 7 | 00 | .11 |
| 13 | | - | | | - | \vdash | _ | | _ | | - | 15.16 | 16.16 | 9.2 | 255 | 1.2 | 007 | 15 |
| 14 | | | | | | | | | | | | 15 05 | 16 12 | 7 | .000 | 1.7 | 606 | .07 |
| 15 | | | | | | | | | | - | - | 1507 | 16 08 | 1 | / | 7 | 1104 | 10 |
| 16 | | | | | | | | | | | | 1507 | 16 07 | | | -7 | .004 | de |
| 17 | | | | | | | | | | | | 15:05 | 16.07 | | | 7 | 504 | O.S |
| 18 | | | | | | | | | | | | 15 08 | 16 06 | | (1) | 6 | 004 | 38 |
| 19 | | | _ | | | <u> </u> | | | | | | 15.11 | 1606 | 1 | | 6 | :4 | 45 |
| 20 | | | | | | | | | | | | 15 !! | 1606 | - | | 6 | 0.04 | Ni |
| 21 | .35 | .15 | .20 | .15 | 20 | 06 | 03 | 03 | .04 | 05 | 0 21 | 1510 | 1607 | 7.5 | .045 | 7 | brid | 07 |
| 22 | | | | | | | | | | | | 15 90 | 16.30 | 142 | 0.65 | 2.8 | 217 | 12 |
| 24 | | | | | | | - | | | | | 15 05 | 16 17 | 1 | | 12 | 007 | 14 |
| 25 | | | | | | - | | _ | | - | | | 16 25 | | - | 33 | 0.20 | .10 |
| 26 | | | | | | | | | | | - | 15.07 | 16 10 | 133 | 000 | 1.1 | 007 | -76 |
| 27 | | | | | | | | | - | | - | 15.25 | 16 28 | 20.0 | 120 | 2.5 | 005 | 12 |
| 28 | | | | | | | | | | - | | 15.04 | 1631 | 6.7 | .040 | 30 | 018 | 10 |
| 29 | | | | | | | | _ | - | | | 15.12 | 1618 | 0.7 | .040 | 14 | 009 | 3 |
| 30 | | | | | | | | | | | | 15.12 | 1616 | | | 1.2 | .007 | . 24 |
| 31 | | | | | | | | | | | | 70.2 | | | | | | |
| OTAL | 280 | 260 | 0.60 | 260 | 20 | .15 | .11 | 10 | 15 | .7 | 068 | ~ | ~ | 934 | .560 | 33.0 | ,202 | 278 |

U.S.D.A - AGRICULTURAL RESEARCH SERVICE - FORT LAUDERDALE, FLORIDA COOPERATING WITH

CENTRAL AND SOUTHERN FLORIDA FLOOD CONTROL DISTRICT & UNIVERSITY OF FLORIDA , AGRICULTURAL EXPERIMENT STATION

MONTHLY HYDROLOGIC DATA MONREVE RANGH

FLORIDA WATERSHED W-4

| DATE | | | | | | RAINF | ALL | | | | | ST/ | AGE | IRRIG | ATION | RU | NOFF | EVAP |
|--------------|---------------|-------|---|--------|----------|----------|------|----------|--------|-------|-------------------------------|--------------------|--------|---------------|--------------|--------|---------------|--------|
| 1963 YEAR | - | EASLE | GAGE | AINFAL | | 18 % | 2 | GAGE | AINFAL | 5 _ | TOTAL WEIGHTED RAINFALL | ST. LUCIE CANAL | OUTLET | CFS X HRS | (.00617)(cF9 | OUTLET | (.00617)(cFs) | STD. |
| | | (| NCHES |) | | 10 4 | | NCHES | | 23 4 | (INCHES) | (FT. | MSL) | (CFS) | (IN. / AREA) | (CFS) | (IN/AREA) | INCHES |
| - 1 | | | | | | | | | | | - | 14.62 | 16.14 | 1 | | 10 | .006 | ./3 |
| 2 | | | | | | | | | | | | 14.64 | | | | 10 | 006 | .10 |
| 3 | | 102 | | ,20 | .23 | | .00 | | .05 | .66 | 0.11 | 14.60 | | | 1 | .9 | 006 | .12. |
| 4 | .65 | .68 | .62 | .76 | 177 | .12 | ,12 | .10 | 18 | .19 | 0.71 | 14.46 | | - | 1 | 10 | 006 | .25 |
| 5 | | - | | | | _ | | | | | | 15.00 | | 1 | 1 | 10 | 006 | .07 |
| -6 | $\overline{}$ | - | | | \vdash | | | | | _ | _ | | 16 .13 | \ | _ | 10 | 000 | .05 |
| 7 8 | - | - | | | \vdash | _ | | <u> </u> | - | - | | | 14.13 | \rightarrow | - | 10 | 006 | -12 |
| 9 | | - | | | | \vdash | - | - | | - | | | 16.12 | _ | 1 | .9 | 006 | ./9 |
| 10 | \vdash | - | - | | \vdash | - | - | _ | - | | | 14.43 | | | | 9 | 006 | .10 |
| 11 | _ | - | | | | _ | - | | | | | 14.50 | | 1 | 1 | 53 | 00.5 | 94 |
| 12 | 105 | 107 | 102 | 103 | 105 | .19 | IR | 16 | 25 | .26 | 1.04 | 14 90 | 16.14 | 7 | j | 1-0 | 006 | .37 |
| 13 | | 1 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | - 34 | | 4.4 | 1222 | 1112 | | | 11 7 | 14.70 | | 7.1 | | 10 | 1504 | .18 |
| 14 | | | | | | | | | | | | 14.60 | 16.13 | 100 | / | 10 | 006 | ./3 |
| 15 | | | | | | | | | | | | 14.62 | 16.13 | 1 | 1/ | 16 | 006 | .12 |
| 16 | 0 <i>5</i> 3 | ,.4B | .50 | ,50 | 52 | 110 | .08 | .08 | .12 | .13 | 051 | 14.51 | | | Y | 10 | 0006 | ./2 |
| 17 | | | | | | | | | | | | 14.64 | | - 1 | 1 | 1-1 | 007 | .14 |
| 18 | | | , , | 4. | | | - | | _ | | | 14.53 | | | _ \ | 11 | 607 | 03 |
| 19 | .32 | .28 | .40 | 30 | .38 | 06 | ,05 | .06 | 07 | ,10 | 0.34 | 14.55 | | +- | - 1 | 12 | 007 | .16 |
| 20 | - | - | | | \vdash | _ | | | | - | | | 16.16 | - | | 12 | 007 | -115 |
| 22 | \vdash | _ | _ | | - | _ | - | | _ | | | 14.70 | 16 15 | -t $-$ | 7. | | 007 | .15 |
| 23 | | | - | | | | | | - | | | 1455 | | 4 | - | 11 | .007 | .17 |
| 24 | <u> </u> | - | | .08 | - | | - | | oZ | | 0 02 | 14.65 | | 1 | | 11 | 317 | .07 |
| 25 | | | | | | | - | | 000 | | | | 16.14 | | | 10 | 100% | .19 |
| 26 | 102 | 100 | .95 | 1.30 | 1.20 | .12 | .17 | .15 | 31 | . 3 ô | 111 | | 16.16 | | - | 12 | 1.27 | .10 |
| 27 | | | | | | - | | | | | | | 16 7 | - 1 | | 1.2 | 107 | .13 |
| 28 | | | | | | | | | | | | | 16.17 | | | 1.2 | 7 | .11 |
| 29 | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | 1 | | | | |
| 31 | | | | | | | | | | | 3 64 | | | | | 29.0 | .178 | 3 70 |

| DATE | | | | | | RAINE | ALL | | | | | STA | AGE | IRRIG | ATION | RU | NOFF | EVAP. |
|--------------|------|-------|-----------|---------|-----|-------|--|-----------|--------|-----|-------------------|---------------------|--------|-----------|--------------|--------|------------|--------|
| MONTH | | EASUR | NED F | RAINFAL | .L | w | EIGHTE | D R. | AINFAL | | TOTAL WEIGHTED | IST. LUCIE CANAL | OUTLET | CFS X HRS | (.006)7XcF9 | OUTLET | DOG 7 ICFS | STD. |
| 1943 YEAR | | 2 | GAGE 3 | 4 | 5 | 18 % | 2 | GAGE 3 | 24% | 25% | HAINFALL | CANAL | MEN | | | MEIN | | HAN |
| | | { | NCHES | 3) | | | | NCHES | | | (INCHES) | (FT. | MSL) | (CFS) | (IN. / AREA) | (CFS) | (IN/AREA) | UNCHES |
| 1 | .05 | .04 | .12 | .08 | .11 | .01 | .01 | .02 | .02 | .03 | 0.09 | 14.71 | 16.17 | | | 12 | .007 | . /3 |
| 2 | | | .62 | | | | | . 60 | | | | 14.71 | 16 17 | . (| | 12 | .007 | 17. |
| 3 | | | | | | | | | - | | | | 1616 | | | 12 | 0.7 | 7 |
| 4 | | | | | | | | 1 | | | | 14.83 | | <u> </u> | 1 | 1.1 | 647 | |
| 5 | | | | | | | | | Ļ | | | 14.85 | 1614 | - | 1 | 1.0 | 506 | 11. |
| 6 | | | | | | _ | - | | - 4 | _ | | 15.00 | 16 14 | / | | 10 | 1006 | .13 |
| 7 | .05 | .10 | .10 | 1,5 | .10 | .01 | .02 | .02 | .04 | .02 | 011 | 14.83 | 16 14 | - | 1 | 10 | 006 | .22 |
| . 8 | .35 | 4.0 | 45 | 20 | 200 | | | 27 | | .09 | 0 37 | 14.80 | | + | 1 | 10 | 1.66 | 9 |
| 9 | . 32 | .40 | 42 | . 55 | 3.5 | .06 | .07 | .0/ | ,00 | 107 | 03/ | 17 35 | 16 15 | 1 | + | 1.1 | 007 | 16 |
| 11 | | | - | - | - | _ | - | _ | - | - | _ | 17.85 | 16 14 | | 1 | 10 | 007 | 16 |
| 12 | | | _ | | - | 1 | | - | | - | _ | 14.81 | | - | 1 | 1.0 | 006 | 10 |
| 13 | | _ | | - | _ | | | - | - | - | | | 16 12 | / | 31 | 9 | 006 | 116 |
| 14 | | | | | | | | | | | | 17.78 | 16 12 | 1 | | . 9 | 006 | .16 |
| 15 | | | | | | | | | | - | | 14.95 | 16.12 | | | .9 | col. | ./2 |
| 16 | | | | | | | | | | | | 14.78 | | 10 7 | .085 | 10 | 206 | 411 |
| 17 | | | | | | | | | | | | 14.68 | 16 23 | 92. | 055 | 8 | -011 | +17 |
| 18 | | | | | | | | | | | | 14.76 | 1624 | 19 2 | 085 | 19 | 112 | . 2.1 |
| 19 | | | | | | | | | | | | 14.75 | 16 29 | 20.0 | .120 | 26 | 0:6 | .12 |
| 20 | | | | | - | | | | | | | 14.88 | 16 30 | 20.0 | .120 | | 017 | .12 |
| 2 | | | | | | | | | | | | 14.67 | | 200 | 120 | 3 5 | -017 | .27 |
| 22 | | | | | | | | | | | | 14.60 | 16 30 | 200 | .120 | 28 | 2017 | 1.71 |
| 23 | | | | | | | | | | | | 14.65 | 16 28 | 200 | .120 | 2.5 | .C15 | .19 |
| 24 | | | | | | | | | | | | 14.56 | 16. 28 | 200 | . 120 | 25 | 015 | 1/4 |
| 25 | 20 | 25 | 25 | ,32 | .35 | .04 | .04 | .04 | .08 | 01 | 0 29 | 14.59 | 16 28 | 125 | .075 | 2.5 | 015 | 7 |
| 26 | | | | - | - | - | - | - | | - | | | 16 25 | / | - | 20 | 0.2 | .12. |
| 27 | 100 | 0.5 | | 15 | .05 | 0.7 | .03 | 03 | 00 | 0.1 | 0 12 | | 16 22 | - | - | 15 | 000 | .10 |
| 28 | .10 | .20 | .10 | 1.2 | .03 | .02 | ,03 | .02 | 104 | 101 | 016 | | 16 20 | - | - | 15 | 009 | 122 |
| | | | | + | | - | - | | - | - | | 17.75 | | 1 | 7 | 14 | .009 | -21 |
| 30 | | | | | | | - | | | | | | 16 17 | | | 1.2 | 007 | .23 |
| | | 0.0 | | - | 737 | 1.4 | | 120 | -37 | 4.4 | 0.00 | 19.30 | 114.11 | 100 | 1 100 | | 294 | |
| TOTAL | .75 | 199 | 107 | 102 | .76 | 114 | 11/ | 117 | 166 | 169 | 0.98 | - | / | 170.1 | 1.020 | 48.Z | 1.274 | 5.18 |

U.S.D.A - AGRICULTURAL RESEARCH SERVICE - FORT LAUDERDALE, FLORIDA GOOPERATING WITH

CENTRAL AND SOUTHERN FLORIDA FLOOD CONTROL DISTRICT & UNIVERSITY OF FLORIDA , AGRICULTURAL EXPERIMENT STATION

MONTHLY HYDROLOGIC DATA MONREVE RANCH

FLORIDA WATERSHED W-4

| DATE | | | | | | RAINF | ALL | | | | | STA | AGE | IRRIG | ATION | RU | NOFF | EVA |
|-----------------------|--------|-------|-------|---------|------|-------|--------|-------|--------|-----|-------------------|--------------------|--------|-----------|--------------|----------------|---------------|------|
| MONTH 1963 YEAR | м | EASUF | GAGE | RAINFAL | L | * | EIGHTI | GAGE | AINFAL | 6. | TOTAL WEIGHTED | ST. LUCIE CANAL | OUTLET | CFS X HRS | (.00617)(cF9 | OUTLET WEIR | (.00617)(cFS) | STD. |
| | | | | | | 18 % | 17% | 16% | | 25% | 1000000 | | | | | | | |
| | | | NGHES | | | | | INCHE | | | (INCHES) | | MSL) | (CFS) | (IN./AREA) | (CFS) | (IN/AREA) | |
| L | .10 | .10 | .10 | .10 | | .02 | -02 | .02 | .02 | | 0.08 | 13.45 | | | | 28 | .017 | 28 |
| 2 | .35 | _ | | | .05 | .06 | | | | .01 | 007 | | | / | | 23 | ,014 | .18 |
| 3 | | .25 | - 75 | .10 | .10 | | .04 | 112 | ,02 | 02 | 0.20 | | 16 26 | / | | 2.2 | .014 | 50 |
| 4 | | _ | - | 75 | .90 | _ | | | 18 | .10 | 0 28 | 13.96 | 16 25 | | 1 | 20 | 012 | 23 |
| 5 | .65 | .05 | . 25 | .95 | 120 | .12 | .01 | ,04 | .11 | 30 | 0 58 | | 16 22 | | | 17 | 010 | -16 |
| 6 | | | | | | | | | | | | 13.45 | | | | 2.0 | 012 | .21 |
| 7 | | | | | | | | | | | | 13 52 | 16 22 | 7 | | 17 | -040 | .15 |
| 8 | | | | | | | | | | | | 13 48 | 1618 | | | 14 | 009 | .15 |
| 9 | .15 | .15 | | , 15 | | .03 | .03 | | .04 | | 010 | 13.55 | 16 16 | / | | 1.2 | 007 | .12 |
| 10 | | | | | | | | | | | | 13 40 | 16.14 | / | I | 10 | 006 | .23 |
| 11. | | | | | | | | | | 1 | | 13 51 | 1610 | | - X | 108 | .005 | .20 |
| 12 | | | | | | | | | | | | 13 42 | 16 08 | | | . 7 | .004 | .28 |
| 13 | | | | | | | | | | | | 13.45 | 16 08 | | | 7 | 004 | .20 |
| 14 | ,05 | | . 05 | .15 | .26 | .01 | | ,01 | .04 | 05 | 011 | 13.50 | 16 24 | - 6 | | 6 | -004 | .14 |
| 15 | | | | | - 1 | | | | | | | 13 41 | 16 13 | 7.5 | .045 | 16 | .010 | .18 |
| 16 | .10 | | | | | .07 | | | | | 002 | 13.50 | 16. 22 | | | 17 | .010 | .20 |
| 17 | .25 | ,10 | . 25 | | | .04 | 102 | .04 | | | 0.10 | 13 46 | 16 07 | | | .7 | 004 | .21 |
| 18 | .20 | .50 | .25 | 15 | .20 | 04 | .08 | 04 | 04 | 05 | 0 25 | 13.50 | 16 05 | | | 6 | 009 | .21 |
| 19 | | | - | | | - | | - | | | | 13.43 | 16 05 | 8.3 | . 050 | .6 | 004 | 20 |
| 20 | | | | - | | | | | | | | 13 30 | 16 08 | | 1 | .7 | 064 | .21 |
| 21 | | | | | | | | | | | | 13.36 | 16 37 | | | .7 | .664 | .29 |
| 22 | | | | | | | | | | | | 13.33 | 1604 | 67 | 090 | .6 | 004 | 22 |
| 23 | .10 | | | | | .02 | | | - | | 002 | 13.43 | 16 26 | 7.5 | 095 | 2.2 | .014 | 26 |
| 24 | -15 | .10 | . 1.5 | .20 | .20 | 03 | .02 | .02 | 05 | .05 | 0-17 | 13.Z3 | 16-11 | - | | 9 | 006 | .25 |
| 25 | .01 | 138 | 1.08 | .82 | .85 | .15 | 23 | .17 | 20 | 21 | 0.96 | 13,24 | 16.10 | | | -8 | .005 | 26 |
| 26 | . 75 | | .80 | 65 | .40 | . 13 | 115 | 13 | 16 | 10 | 067 | 13 18 | 1610 | | | - 6 | 005 | 21 |
| 27 | .05 | | .10 | .15 | . 15 | 01 | | 02 | 04 | .04 | 0.11 | 1337 | 16 10 | | | 8 | 005 | .16 |
| 28 | .40 | .70 | 80 | 95 | 4.5 | 07 | .12 | 13 | 22 | 16 | 6 70 | /3 3.3 | 16.27 | 1 | 1 | 9 7 | .029 | .16 |
| 29 | | | | - | | | - | - | - | 1 8 | 7,0 | 13.33 | 16 44 | 1 | - / | 60 | 0.37 | 18 |
| 30 | | | | | | | | | | | | 1331 | 16 30 | 1 | - 0 | 28 | .017 | 21 |
| 31 | | | | | | | | | _ | | | | | 15 | | | .017 | |
| OTAL. | 411 | 42.3 | 455 | 019 | 441 | 75 | 72 | 74. | 112 | 109 | 4 42 | - | ~ | 300 | .180 | 473 | 290 | 614 |
| | 7 11 1 | 1-23 | 9.39 | 7.68 | THE | 1/2 | 16 | . / 7 | - 14 | 101 | 7.75 | - | - | 300 | | 94.448. | | 6 14 |

| DATE | | | | | | RAINF | ALL | | | | | STA | AGE | IRRIG | ATION | RU | NOFF | EVAP |
|------------------------------|-------|------|-------|---------|------|----------|-------|-----------|--------|-------------|-------------------|-----------|--------|-----------|---------------|----------------|--------------|----------|
| ЛОГА МОМЦН 1963 | | EASU | RED F | RAINFAL | LL | W | EIGHT | | AINFAL | L | TOTAL WEIGHTED | ST. LUCIE | OUTLET | CFS X HRS | (.00617XcF9 | OUTLET WEIR | (00617KcFS) | STD. |
| YEAR | 1 | 2 | 3 | 4 | 5 | 18 % | 2 | GAGE 3 | 24% | 25% | RAINFALL | - CARGE | | | | #EIN | | TAN |
| | | - (| NCHE | 3) | - | | | NCHE | D . | | (INCHES) | (FT. | MSL) | (CFS) | (IN. / AREA) | (CFS) | (IN/AREA) | UNCHES |
| | | | | | | | | | | | | 1332 | 16 13 | | | 10 | 1406 | .23 |
| 2 | | | - | | | _ | | | | | | 1336 | 16 05 | 117 | -070 | 6 | 004 | 26 |
| 3 | | - | | | | - | | | | _ | | 13.42 | 1605 | 5.8 | ,035 | . 6 | 004 | 24 |
| 4 5 | | - | .03 | .05 | _ | _ | | .01 | .01 | | 002 | 13 35 | 1605 | 1 | - | ű | 604 | 16 |
| 6 | . ~1 | 1 /0 | 1.00 | . 10 | | .37 | .19 | 16 | .26 | .29 | 1.21 | 13 37 | 16 05 | | | 19 | 004 | 22 25 |
| 7 | | 1-10 | 1.00 | 1.10 | 113 | 121 | 7 | . / Ca | , 46 | 16/ | | 13.34 | 16 16 | - | | 12 | 007 | 50 |
| 8 | | | | | | | - | | | - | | 13 46 | | 1 | \rightarrow | 12 | 007 | 22 |
| 9 | | | | | | | - | | | _ | | 13 37 | 16 17 | 3 | / | 1.0 | 006 | 26 |
| 10 | -25 | | | | | 04 | | | | | 0 04 | 13 35 | 16 03 | - | - | 5 | FOO | 24 |
| 11 | . 1.5 | - | | | | 07 | | | | | 0.03 | 13.16 | 1600 | 67 | 090 | 4 | 002 | 29 |
| 12 | | .10 | .05 | ,15 | .40 | | .02 | .61 | .04 | .10 | 017 | 13 18 | 16 22 | 6.7 | .090 | 2.5 | .012 | 07 |
| 13 | | | .55 | | .05 | | | .02 | | .01 | 6 93 | 13.10 | 16 10 | - | | . 8 | 1005 | 22 |
| 14 | | ,50 | .55 | | : 15 | _ | .08 | .09 | | 04 | 0.21 | 13 16 | 16 04 | - | | 6 | .004 | 25 |
| 15 | | | | | | \vdash | _ | | _ | | | 13 19 | 16 02 | 2 | - 2 | 5 | 003 | 34 |
| 16 | _ | .31 | . 55 | 20 | - | - | 05 | .09 | ,05 | | 0.19 | 13.08 | 16 01 | - | | . 4 | 1002 | 14 |
| 18 | | | | | | - | | _ | | | | 13 08 | 16 00 | 5.8 | 035 | - 4 | 0.02 | 17 |
| 19 | _ | _ | | | | - | | _ | _ | - | | 13 05 | 16 12 | 67 | 040 | 10 | 006 | 30 |
| 20 | | .10 | ./0 | | - | _ | ^2 | -02 | _ | | 004 | 12.98 | 1602 | | | - 6 | .004 | 25 |
| 21 | | , | 1,700 | | | | ,00 | -02 | | _ | 004 | 13.16 | 16 00 | | | d | 002 | 16 |
| 22 | | | - | | | | | _ | | | | | 16 00 | 5.0 | 030 | ıl. | 002 | 15 |
| 23 | | | | | | | | | | | | 13 17 | 15 99 | U. U | | J | 002 | 30 |
| 24 | | | | | | | | | | | | 13 03 | 16 00 | 192 | .085 | 4 | 002 | 14 |
| 25 | | | | | .10 | | | | | ,02 | 200 | 12 90 | 1606 | 200 | 120 | 16 | 009 | -25 |
| 26 | | | ,10 | .05 | .20 | | | .02 | 0/ | 05 | 0.08 | 12 75 | 16 11 | 5.8 | .035 | 4 | 006 | 29 |
| 27 | | | | | - | _ | | | | | | 12 67 | 1606 | 14. | | | 009 | 30 |
| 28 | .60 | ,20 | | | .55 | -71 | .03 | | .17 | 14 | 051 | 12 82 | 16 5 | 1 | | 6 | 200 | 17 |
| | 42 | -61 | 1.20 | 70 | .70 | 26 | .10 | .19 | 17 | .18 | 0.90 | 12.75 | 16 05 | 1 | ` ` | _6 | 004 | 11 |
| 30 | .60 | 50 | 50 | | | 1.7 | 00 | 00 | | | - 07 | 12.78 | 1606 | | - | 6 | 009 | 03 |
| | | | | | | .11 | .08 | | | | Q. 27 | 12 82 | 16 DB | | | 101 | .005 | .11 |
| TAL | 9.73 | | 4.53° | 275 | 330 | .86 | ,57 | -75 | 71 | .83 | 3.72 | >< | >< | 88.4 | .530 | 227 | .139 | 678 |

PART IV

Monthly Hydrologic Data

Plantation Field Laboratory

1963

Division 1 - Rainfall, Air Temperature, Wind, Relative Humidity

HYDROLOGIC DATA - FLANTATION FIELD LABORATORY FORT LAUDERDALE, FLORIDA

HYDROLOGIC DATA - FLANTATION FIELD LABORATORY FORT LAUDERDALE, FLORIDA

| RAINFALL | AIR | AIR TEMP. (°F) | (F) | WIND | REL. HOM. | REMARKS | PE B. | RAINFALL | AIR | AIR TEMP. |
|----------|------|----------------|-------|--------|-----------|---------|--------------|----------|------|-----------|
| | MAX. | MIN. | NON | (,,,,) | Pel | | (MO.) | (TN.) | WAY. | MIN. |
| | | | | | | | 1963 (m.) | | | |
| | 13 | 41 | 57 | 37 | 08 | | 1 | | 00 | 55 |
| | 72 | 49 | 00 | 37 | 80 | | cı | | 83 | 64 |
| | 72 | 49 | 00 | 23 | 70 | | 2 | | 80 | 56 |
| | 169 | 41 | 55 | 25 | 74 | | T | 0.88 | 82 | 0 |
| | 74. | 49 | 20 | 38 | 82 | | ir. | 200 | 68 | 53 |
| 80.0 | 75 | 52 | 49 | 61 | 82 | | 9 | | 62 | 5 |
| 60.0 | 75 | 54 | 64 | 60 | 080 | | 7 | | 70 | 5 |
| 0.16 | 00 | 49 | 58 | 40 | 89 | | 8 | - | 76 | 56 |
| | 604 | 38 | 51 | 38 | 90 | | 0 | 0.13 | 76 | 5 |
| | 68 | 43 | 50 | រោ | 75 | | 10 | | 75 | 49 |
| | 73 | 47 | 09 | 18 | -C | | 11 | | 77 | 57 |
| 0.24 | 80 | 20 | 11 | 460 | 44 | | 123 | 0.00 | a | 72 |
| 0.04 | 82 | 50 | 73 | -5 | 95 | | 1.5 | 2.97 | 75 | 48 |
| 0.15 | 83 | 99 | 74 | 30 | 95 | | 1/1 | | 65 | 43 |
| | 80 | 57 | 89 | 5 | 97 | | 15 | | 17 | 47 |
| 0.28 | 80 | 19 | 70 | 38 | 95 | | 370 | 80.0 | 89 | 54 |
| 0.05 | 75 | 62 | 68 | 77 | 24 | | 17 | 0.62 | 64 | 15 |
| | 78 | 59 | 68 | 200 | 89 | | 18 | 0.02 | 69 | 58 |
| | 80 | 00 | 70 | 44 | 90 | | 19 | 0.25 | 76 | 67 |
| | 80 | 64 | 72 | 32 | 93 | | 20 | 0.04 | 84 | 52 |
| | 84 | 60 | 76 | 872 | 16 | | .21 | | 69 | 44 |
| 61.0 | 76 | 48 | 62 | 53 | 26 | | 81 | | 11 | 56 |
| | 73 | 54 | 64 | 53 | 8 | | 23 | | 75 | 3 |
| | 18 | 104 | 27 | 49 | 93 | | ग्रह | | 72 | 63 |
| | 71 | 20 | 00) | 9 | 16 | | 25 | | 83 | 500 |
| | 75 | GB | 77 | 86 | 88 | | 56 | + | 18 | 0 |
| | 79 | 00 | 70 | 36 | 1 | | 27 | 0.02 | 8 | 44 |
| | 84 | 58 | 11 | 58 | 1 | | 28 | | 68 | 49 |
| | 73 | 00 | 99 | 901 | 82 | | 53 | | | |
| 0.03 | 74 | 57 | 70 | 76 | 88 | | 30 | | | |
| | 77 | 57 | 107 | 27 | 93 | | 32 | | | |
| .29 | 2356 | | 2.031 | 1.326 | | | TOT. | 5.09 | 2092 | 1532 |
| _ | 76.0 | 55.5 | 12 R | | | | - | | 1 | 441 |

| REMARKS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|--------|-----|----|----|-----|------|-----|----|----|----|------|-----|----|------|------|-----|----|------|------|------|------|------|----|----|----|----|-----|----|------|----|----|----|----------|---|
| MEAN WID. | 34 | | 88 | 88 | 87 | 88 | 98 | 98 | 98 | 78 | 660 | 98 | 1 | 1 | 1 | 84 | 83 | 77 | 47 | 98 | 95 | 1 | 85 | 73 | 85 | 84 | 1 | 93 | 84 | 41 | | | | |
| MIND | (MT.) | | 13 | 25 | 16 | 34 | 20 | 43 | 71 | 46 | 40 | 260 | 16 | 103 | 29 | 35 | 21 | 29 | 54 | 21 | 26 | 94 | 27 | 16 | 1/ | 8 | 76 | 25 | 124 | 43 | | | | |
| 6 | NA | | 68 | 74 | 689 | 72 | 00 | 57 | 09 | 99 | 64 | 62 | 67 | 77 | 19 | 54 | 59 | 19 | 09 | 64 | 72 | 68 | 57 | 67 | 65 | 68 | 70 | 17 | 64 | 58 | | | | - |
| AIR TEMP. (0F) | MIN. | | 55 | 64 | 56 | 19 | 53 | 15 | 15 | 56 | 15: | 49 | 57 | 72 | 48 | 43 | 47 | 54 | 57 | 58 | 67 | 52 | 44 | 56 | 25 | 63 | 500 | 19 | 44 | 49 | | | | |
| AIR | WAY. | | 00 | 83 | 80 | 82 | 68 | 29 | 70 | 76 | 76 | 75 | 77 | 00 | 75 | 69 | 17 | 68 | 64 | 69 | 76 | 84 | 69 | 11 | 75 | 72 | 83 | 18 | 84 | 68 | | | | |
| RAINFALL | (TIV.) | | | | | 0.88 | 200 | | | | 0.13 | | | 0.00 | 2.97 | | | 80.0 | 0.62 | 0.02 | 0.25 | 0.04 | | | | | | + | 0.02 | | | | | H |
| DATE FEB. | (MO.) | 963 | 1 | cu | 3 | 7 | ıc | 9 | 7 | 8 | 0 | 10 | 11 | 125 | | 177 | 15 | 16 | | 18 | | 30 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 83 | 30 | \vdash | |

HYDROLOGIC DATA - PLANTATION FIELD LABORATORY FORT LAUDERDALE, FLORIDA

HYDROLOGIC DATA - PLANTATION FIELD LABORATORY FORT LAUDEHDALE, FLORIDA

| DATE MAY | HAINHALL | AIR | TEMP. (° | F) | WIND | MEAN WID. REL.HUM. | FEMARIUS |
|--------------------|----------|------|----------|------|--------|-----------------------|----------|
| (MO _a) | (IN.) | MAX. | MIN. | MN | (MIL.) | 1 | |
| 1963 (Tr.) | | | | | | | |
| 1 | 0.15 | 82 | 65 | 74 | 138 | 89 | |
| 2 | 1.40 | 87 | 64 | 76 | 45 | 94 | |
| 3 | 2.67 | 78 | 68 | 73 | 48 | 98 | |
| 4 | .01 | 72 | 64 | 68 | 42 | 91 | |
| 5 | | 80 | 60 | 70 | 33 | 86 | |
| 6 | | 80 | 53 | 66 | 44 | - | |
| 7 | | 87 | 57 | 7.2 | 26 | 69 | |
| 8 | | 88 | 61 | 74 | 65 | 77 | |
| 9 | | 83 | 57 | 70 | 29 | 81 | |
| 30 | | 83 | 59 | 71 | 35 | 75 | |
| 11 | | .87 | 64 | 76 | 33 | 77 | |
| 12 | | 90 | 62 | 76 | 31 | 78 | |
| 13 | | 92 | 65 | 78 | 31 | 79 | |
| 14 | 0.33 | 87 | 72 | 80 | 65 | 85 | |
| 15 | | 82 | 60 | 71 | 47 | 83 | |
| 16 | | 87 | 65 | 70 | 25 | 79 | |
| 17 | | 88 | 64 | 76 | 28 | 80 | |
| 18 | | 90 | 66 | 78 | 31 | _ | |
| 19 | | 90 | 67 | 78 | 25 | - | |
| 20 | | 87 | 75 | 81 | 89 | - | |
| 21 | | 88 | 76 | 82 | .14 | 88 | |
| 22 | 0.11 | 86 | 69 | 78 | 22 | 94 | |
| 23 | | 88 | 70 | 79 | 29 | 90 | |
| 24 | 0.17 | 88 | 69 | .78 | 20 | 93 | |
| 25 | | 86 | 70 | 78 | 40 | - | |
| 26 | | 87 | 69 | 78 | 24 | 85 | |
| 27 | | 89 | 70 | 80 | 41 | 86 | |
| 28 | | 89 | 74 | 82 | 19 | 90 | |
| 29 | 0.01 | 89 | 74 | 82 | 44 | 84 | |
| 30 | 1.03 | 89 | 71 | 80 | 33 | 92 | |
| 31 | 0.63 | 86 | 70 | 78 | 31 | 88 | |
| TOT. | 6.51 | 2665 | 2050 | 2359 | 1,128 | | |
| MN. | | 85.9 | 66.1 | 76.1 | | | |

| DATE | RAIN FALL | AIR | TEMP. (° | F) | WIND | MEAN WID. REL.HUM. | REMARKS |
|---------------|-----------|------|----------|------|-------|-----------------------|---------|
| (MO.) | (m.) | MAX. | MIN. | MIN | (MI.) | 4 | |
| 1963 (YR.) | | | | | | | |
| 1 | | 86 | 69 | 78 | 59 | 83 | |
| 2 | | 87 | 69 | 78 | 33 | - | |
| 3 | | 88 | 68 | 78 | 36 | _ | |
| 1, | 0.32 | 88 | 70 | 79 | 25 | 90 | |
| 5 | 0.06 | 89 | 70 | 80 | 25 | 90 | |
| 6 | 0.04 | 92 | 68 | 80 | 23 | 88 | |
| 7 | 1.00 | 91 | 65 | 78 | 9 | 97 | |
| 8 | 0.02 | 90 | 60 | 75 | 10 | 89 | |
| 9 | | 85 | 67 | 76 | 17 | 86 | |
| 10 | 0.04 | 91 | 70 | 80 | 29 | | |
| 11 | 1.56 | 89 | 68 | 78 | 7 | 90 | |
| 12 | 0.05 | 91 | 74 | 82 | 31 | 89 | |
| 13 | 1.10 | 90 | 75 | 82 | 23 | 91 | |
| 址 | 0.04 | 88 | 73 | 80 | 69 | 89 | |
| 15 | | 91 | 73 | 82 | 7 | 83 | |
| 16 | 0.33 | 91 | 73 | 82 | 4 | 90 | |
| 17 | 0.52 | 92 | 72 | 82 | 4 | _ | |
| 1.8 | | 90 | 71 | 80 | 22 | 84 | |
| 19 | | 90 | 73 | 82 | 34 | 85 | |
| 20 | | 89 | 74 | 82 | 39 | 80 | |
| 21 | | 89 | 75 | 82 | 28 | 82 | |
| 22. | | 89 | 72 | 80 | 52 | 80 | |
| 23 | 0.22 | 91 | 74 | 82 | 31 | 80 | |
| 24 | | 90 | 72 | 81 | 40 | _ | |
| 25 | 0.27 | 90 | 73 | 82 | 25 | 79 | |
| 26 | 0.93 | 89 | 71 | 80 | 27 | 90 | |
| _ 27 | 0,18 | 83 | 71 | 77 | 8 | 89 | |
| 28 | 0.02 | 88 | 70 | .79 | 14 | 86 | |
| 29 | 0.45 | 89 | 70 | 80 | 26 | 90 | |
| 30 | | 89 | 75 | 82 | 16 | 82 | |
| 31 | | | | | | | |
| TOT. | 7.15 | 2675 | | 2399 | 773 | | |
| MN. | | 89.2 | 70.8 | 80.0 | | | |

HYDROLOGIC DATA - PLANTATION FIELD LABORATORY FORT LAUDERDALE, FLORIDA

HYDROLOGIC DATA - PLANTATION FIELD LABORATORY FORT LAUDERDALE, FLORIDA

| DATE SEPT. | RAIN FALL | AIR | TEMP. (C | 'F) | WIND | MEAN WID. | REMARKS |
|---------------|-----------|-------|----------|------|-------|-----------|---------|
| (MO.) | (IN.) | MAX. | MIN. | MIN | (MI.) | * | |
| 1963 (YR.) | | | | | | | |
| 1 | 0,12 | 90 | 76 | 83 | 31 | 89 | |
| 2 | 1.22 | 88 | 74 | 81 | 16 | 95 | |
| 3 | | 90 | 74 | 82 | 10 | 90 | |
| L | 1 | 91 | 75 | 83 | 16 | 84 | |
| 5 | | 92 | 73 | 82 | 23 | 83 | |
| 6 | 0.11 | 93 | 73 | 83 | 13 | 87 | |
| 7 | 1.35 | 93 | 73 | 83 | 27 | 86 | |
| 8 | 0.05 | 92 | 74 | 83 | 4 | 84 | |
| 9 | | 93 | 72 | 82 | 16 | 87 | |
| 10 | 1.32 | 93 | 72 | 82 | 18 | 91 | |
| 11 | | 92 | 72 | 82 | 10 | 83 | |
| 12 | | 90 | 72 | 81 | 16 | 85 | |
| 13 | | 96 | 72 | 84 | 14 | 78 | |
| 1/4 | | 93 | 74 | 84 | 24 | 81 | |
| 15 | | 90 | 74 | 82 | 21 | 82 | |
| 16 | 0.08 | 88 | 73 | 80 | 8 | 86 | |
| 17 | 0.13 | 91 | 75 | 83 | 22 | 85 | |
| 18 | 0.11 | - 88 | 75 | 82 | 13 | 91 | |
| 19 | 0.68 | 85 | 72 | 78 | 9 | 92 | |
| 20 | 1.69 | 82 | 72 | 77 | 14 | - | |
| 21 | 0.92 | 80 | 72 | 76 | 10 | 98 | |
| 22 | 0.06 | 83 | 72 | 78 | 16 | 96 | |
| 23 | 0.60 | 90 | 72 | 81 | 10 | 93 | |
| 24 | 0.26 | 83 | 74 | 78. | 20 | 98 | |
| 25 | 1.09 | 85 | 72 | 78 | 24 | 96 | |
| 26 | 0.89 | 84 | 74 | 79 | 36 | 98 | |
| 27 | | 89 | 72 | 80 | 26 | 92 | |
| 28 | | 92 | 75 | 84 | 17 | 87 | |
| 29 | | 90 | 79 | 84 | 56 | 86 | |
| 30 | | 91 | 72 | 82 | 36 | 84 | |
| 31 | | | | | | | |
| TOT. | 10.68 | 2.677 | 2201 | | 576 | | |
| MN. | | 89.2 | 73.4 | 81.2 | | | |

| DATE OCT. | RAIN FALL | AIR | TEMP. (° | F) | WIND | MEAN WID. RLL. HUM. | REMARKS |
|---------------|-----------|-------|----------|------|-------|------------------------|---------|
| (MO.) | (IN.) | MAX. | MIN. | MN | (MI.) | % | |
| 1963 (YR.) | | | | | | | |
| 1 | | 91 | 71 | 81 | 14 | 76 | |
| 2 | 0.03 | 84 | 71 | 78 | 30 | 85 | |
| 3 | 3.62 | 87 | 71 | 79 | 17 | 95 | |
| _ 4 | 0.29 | 85 | 74 | 80 | 31 | 84 | |
| 5 | | 85 | 74 | 80 | 20 | 71 | |
| 6 | | 85 | 72 | 78 | 15 | 74 | |
| 7 | 0.10 | 84 | 74 | 79 | 35 | 85 | 26 |
| 8 | 0.04 | 85 | 75 | 80 | 41 | 33 | |
| 9 | 0.02 | 85 | 69 | 77 | 19 | 85_ | |
| 10 | 0.68 | 85 | 64 | 74 | 23 | _ | |
| 11 | 0.40 | 84 | 68 | 76 | 30 | 84 | |
| 12 | | 78 | 63 | 70 | 19 | 90 | |
| 13 | | 83 | 65 | 74 | 24 | 79 | |
| 14 | | 82 | 64 | 73 | 25 | 77_ | |
| 15 | 2.03 | 84 | 65 | 74 | 31 | 79 | |
| 16 | 0.30 | 82 | 68 | 75 | 22 | 90 | |
| 17 | 0.11 | 82 | 68 | 75 | 20 | _ | |
| 18 | 0.13 | 80 | 66 | 73 | 22 | _ | |
| 19 | 0.01 | 82 | 60 | 71 | 17 | 84 | |
| 20 | | 83 | 63 | 73 | 24 | 34 | |
| 21 | | 83 | 58 | 70 | 28 | 86 | |
| 22 | | 85 | 58 | 72 | 22 | 78 | |
| 23 | | 87 | 66 | 76 | 35 | - | |
| 24 | | 86 | 65 | 76 | 27 | _ | |
| 25 | | 84 | 65 | 74 | 32 | _ | |
| 26 | | 86 | 68. | 77 | 12 | _ | |
| 27 | | 86 | 69 | 78 | 28 | - | |
| 28 | | 88 | 66 | 77 | 6 | - | |
| 29 | | 89 | 46 | 78 | 9 | 77 | |
| 30 | | 85 | 58 | 72 | 47 | 75 | |
| 31 | | 79 | 57 | .68 | 24 | 72 | |
| TOT. | 7.76 | 2,614 | 2,061 | 2338 | 744 | · · · · · | |
| MN. | | 84-3 | 66.5 | 75.4 | | | |

PART IV

Monthly Hydrologic Data

Plantation Field Laboratory

1963

Division 2 - Solar Radiation, Standard Pan Evaporation, Water Temperature

HYDROLOGIC DATA - PLANTATION FIELD LABORATORY FORT LAUDERDALE, ELORIDA

| DATE | | SOLAR RADIATION | | | FREE T | ATER EV | AP | CLASS | A PAN | | |
|---------------|----------|-----------------|----------------|-------|--------|---------|-----------|--------|--------|-------|-----|
| NAT | DURATION | TOT. INC. LIGHT | TOT. RADIATION | ALUM. | BLACK | | WA TE | CR TEM | P. (OF | .) | |
| (MO.) | (HOURS) | | (GUNN-BELLANI) | (IN.) | (IN.) | | ALUM. | | 1 | BLACK | |
| (MO.) 1963 | | | UNITS | (/ | (/ | MAX. | MIN. | MN | WAX. | MIN. | MIN |
| (YR.) | | | | | | 1 | | | | 20.11 | - |
| 1 | 6.9 | 364 | 8.4 | .24 | | | | | | | |
| 2 | 6.9 | 362 | 86 | .07 | | _ | | | | | |
| 3 | 5.8 | 338 | 8.6 | .14 | | | | | | | |
| 4 | 7.4 | 380 | 9.7 | 16 | | 1 | | | | | |
| - 5 | 7.2 | 3.7% | 9.8 | 10 | | | | | | _ | 100 |
| _ 6 | 2.8 | 256 | 6.5 | 119 | | | | | | | |
| 7 | 2.6 | 251 | 6.5 | .09 | | | | | | | |
| . 8 | 6.9 | 374 | 7.9 | . [4 | | | | | | | |
| 9 | 4.4 | 309 | 4.7 | .10 | | | | | | | |
| _10 | 8.2 | 410 | 16.2 | | | | | | | | |
| 11 | 8.2 | 411 | 10.3 | .05 | | | | | | | |
| 12 | 6.6 | 372 | 9,3 | .04 | | | | | | | |
| 13 | 5.0 | 330 | 9.3 | ,12 | | | | | | | |
| 14 | 4.6 | 320 | 7.9 | 10 | | | | | | | |
| 15 | 1.6 | 221 | 5.7 | .08 | | | | | | | |
| 16 | 2,0 | 2 3 8 | 7,5 | .08 | | | | | | | |
| 17 | 0.1 | 16.2 | 1.8 | .05 | | | | | | | |
| 18 | 8.5 | 472 | 9.9 | , 12. | | | | | | | |
| 19 | 8.1 | 428 | 10.4 | | | | | | | | |
| 20 | 7.8 | 416 | 8.6 | ,10 | | | | | | | |
| 21 | 8.6 | 435 | 12.2 | .18 | | | | | | | |
| 22 | 0.8 | 178 | 2.0 | .12 | | | | | | | |
| 23 | 5,4 | 356 | 9,8 | | | | | | | | |
| 24 | 6.2 | 380 | 9.8 | .12 | | | | | | | |
| 25 | 0.3 | 80 | 4.9 | .14 | | | | | | إناكا | |
| 26 | 1.3 | 220 | 5.0 | .08 | | | | | | | |
| 27 | 1.8 | 240 | 5.6 | .09 | | - | | | | | |
| 28 | 8.4 | 445 | 11,4 | .19 | | - | \square | | | | |
| 20 | 0.5 | 190 | 4.7 | .15 | | - | | | | | |
| 30 | 2.1 | 258 | 7.1 | .14 | | - | | | | | |
| 31 | 3.2 | 300 | 6.0 | .09 | | | | | | | |
| TOT. | 150.1 | 9,948 | 204.7 | 3.62 | | | | | | | |
| MN. | 4.8 | | 6.6 | .12 | | | | | | | |

| DATE | | SOLAR RADIATION | | | FREE 7 | VATER EV | AP (| CLASS | A PAN |) | |
|-------|-----------|-----------------|----------------|-------|--------|----------|----------|-------|---------|----------|---------------|
| FEB | DURATION | TOT. INC. LIGHT | TOT. RADIATION | ALUM. | BLACK | | WATE | R TEM | P. (°F. | .) | |
| (MO.) | (HOURS) | | (GUNN-BELLANI) | (IN.) | (IN.) | | ALUM. | | | BLACK | |
| 963 | | | UNITS | | | MAX. | MIN. | MN | MAX. | MIN. | MN |
| (YR.) | | | | | | | | | | | |
| 1 | 4.8 | 350 | 93 | .1.1 | | | | | | | |
| 2 | 7.4 | 428 | 11.4 | 12 | | | | | | | |
| 3 | 6.6 | 408 | 10.4 | .1.7 | | | | | | | |
| L | 6.1 | 396 | 10.4 | .19 | | | | | | | |
| 5 | 0 | 174 | 1.2 | 06 | | | | | | | |
| 6 | 0.2 | 180 | 1.9 | .05 | | | | | | | $\overline{}$ |
| 7 | 5.5 | 380 | 8.7 | .15 | | | | | | | |
| 8 | 8.8 | 480 | 13.7 | 17 | | | | | | | _ |
| Q | 6.2 | 405 | 9.9 | 12 | | | | | | | |
| 10 | 8.0 | 460 | 12.0 | .12 | | | - | | - | | |
| 11 | 3.2 | 310 | 9.2 | 09 | | | \vdash | | | <u> </u> | _ |
| 12 | 3.2 | 311 | 9.1 | .14 | | | - | | _ | \vdash | |
| 13 | 0.7 | 210 | 0.1 | 13 | | | \vdash | | | | - |
| 1/4 | 8.7 | 490 | 12.8 | 13 | | | | | | ļ | _ |
| 15 | 8.7 | 478 | 12.1 | .1.1 | | | | | | | - |
| 16 | 8,9 | 501 | 13.6 | .15 | | | - | | _ | | _ |
| 17 | 0 | 178 | 0.6 | .02 | | - | | | | | ⊢ |
| 18 | 0 | 179 | 1.1 | .01 | | | | | _ | | ╙ |
| 19 | 63 | 256 | 8.5 | .08 | | _ | | | - | | \vdash |
| 20 | 545.1 - 3 | 476 | 10.8 | .23 | | | \vdash | | - | | ⊢ |
| 21 | 10.2 | 542 524 | 13.7 | .110 | | | \vdash | | | | ⊢ |
| 22 | | 524 | 16.4 | 17 | | _ | \vdash | | | | \vdash |
| 23 | 3.6 | 337 | 9.1 | .18 | | | - | | | | - |
| था | 0.8 | 220 | 4.9 | .09 | | | | | - | - | - |
| 25 | 5.7 | 412 | 9.6 | 18 | | - | | | - | | - |
| 26 | 6.4 | 440 | 12.0 | 12 | | - | | | | | - |
| 27 | 9.2 | 512 | 13.2 | | | + | | | - | | - |
| 28 | 7.6 | 530 | 147 | .16 | | +- | | | + | | \vdash |
| 29 | | - | | | - | - | - | | | | - |
| 30 | | | | | | - | - | | - | - | - |
| 31 | 120.2 | 1000 | 57 t A A | | | - | - | | - | | 1 |
| TOT. | 148,4 | 10,517 | 260.4 | 3.106 | | - | - | | | - | - |
| MN . | 5.3 | | 9.3 | .13 | | 1 | | | | | |

HTD ROLOGIC DATA - PLANTATION FIELD LABORATORY FORT LAUDERDALE, KLORIDA

| DATE | | SOLAR RADIATION | | | FREE 7 | ATER EV | AP (| CLASS | A PAN |) | |
|-------|----------|-----------------|----------------|-------|--------|---------|-------|-------|---------------------------|-------|----------|
| MAY | DURATION | TOT. INC. LIGHT | TOT. RADIATION | ALUM. | BLACK | | WATE | R TEM | P. (0F. | .) | |
| (MO.) | (HOURS) | | (GUNN-BELLANI) | (IN.) | (IN.) | | ALUM. | | | BLACK | |
| 1963 | | | UNITS | | | MAX. | MIN. | MN | MAX. | MIN. | MN |
| (YR.) | | | | | | | | | | | |
| 1 | 3.7 | 380 | 11.6 | .21 | | | | | | | |
| 2 | 2.7 | 339 | 69 | .15 | | | | | | | |
| 3 | 014 | 212 | 3.9 | -31 | | | | | | | |
| L | 1.2 | 251 | 3.2 | .24 | | | | | | | |
| 5 | Carl | 4.89 | 10.3 | 30 | | | | | | | |
| 7 | 10.6 | 658 | 15.5 | .75 | | | | | | | |
| 7 | 11.2 | 672 | 20.2 | .28 | | | | | | | |
| я | 11.3 | 676 | 19.4 | 31 | | | | | | | |
| Q | 12.3 | 701 | 19.5 | .27 | | | | | | | |
| 10 | 1114 | 679 | 19.9 | .29 | | | | | | | |
| 11 | 10.2 | 648 | 20.0 | .27 | 1 | | | | | | |
| 12 | 10,5 | 656 | 19.3 | .78 | | | | | | | |
| 13 | 10.9 | lalele | 19.2 | 27 | | | | | | | |
| 11, | 10.5 | 656 | 15.7 | .23 | | | | | $ldsymbol{ldsymbol{eta}}$ | | |
| 15 | 12.0 | 695 | 16.5 | .26 | | | | | | | |
| 16 | 11.1 | 671 | 18.7 | .76 | | | | | | | |
| 17 | 12.2 | 701 | 21.3 | .29 | I | | | | \perp | | |
| 18 | 11.0 | 6269 | 20.2 | 30 | | | | | | | |
| 19 | 7.0 | 520 | 160.1 | .24 | | | | | | | |
| 20 | 10.9 | Locolo | 16.3 | ,26 | | | | | | | |
| 21 | 4,3 | 413 | 13.0 | 27 | | | | | | | |
| 22 | 2.8 | 341 | 3.7 | .08 | | | | | | | |
| 23 | 7.4 | 531 | 16.4 | .21 | | | | | | | |
| 24 | 2.9 | 348 | 7.5 | .10 | | | | | | | |
| 25 | 5.3 | 457 | 14.3 | .18 | | | | | | | |
| 26 | 9.1 | | 16.3 | .23 | | | | | | | |
| 27 | 8.9 | 590 | 18.4 | .21 | | - | | | | | <u> </u> |
| 28 | 2.8 | 341 | 9.7 | .160 | | | - | | - | | |
| 29 | 9.3 | 609 | 17.5 | .27 | | | 1- | | | | _ |
| 30 | 4.6 | 423 | 12.0 | .13 | | | - | | | | |
| 31 | 3.6 | 380 | 12.0 | .34 | | | | | | | |
| TOT. | 238.2 | 16.637 | 454.5 | 7,55 | | | | | - | | _ |
| MN. | 7.7 | | 14.7 | .24 | | | | | | | |

| DATE | | SOLAR RADIATION | | | FREE T | ATER EV | AP (| CLASS | A PAN |) | |
|----------|------------|--------------------|----------------|-----------|--------|---------|----------|--------|--|-------|----------|
| JUNE | DURATION | TOT. INC. LIGHT | TOT. RADIATION | ALUM. | BLACK | | WATE | ER TEM | P. (OF. | .) | |
| (MO.) | (HOURS) | | (GUNN-BELLANI) | (IN.) | (IN.) | | ALUM. | | T - | BLACK | |
| 1963 | | | UNITS | | | MAX. | MIN. | MN | MAX. | MIN. | MN |
| (YR.) | | | | | | | | | | | |
| 1 | 7.3 | 528 | 14.7 | .26 | | | 1 | - | | | |
| 2 | 8.2 | 557 | 11.3 | | | | | | | | |
| 3 | 8.7 | 580 | 17.5 | .25 | | | | | | | |
| 4 | 3.6 | 379 | 11.0 | .22 | | | | | | | |
| 5 | 6.0 | 483 | 14.7 | .17 | | | | | | | |
| 6. | 8.0 | 548 | 15.7 | .23 | | | | | \vdash | | |
| 7 | 3.5 5.1 | 37.1 | 8.2 | .21 | | | | | | | |
| 8 | 51 | 348 | 12.3 | . 15 | | | | | - | | _ |
| 10 | 2.6 | 33 <i>0</i> 5/4 | 9.7 | .13 | | _ | | | - | | |
| 11 | 7.60 | 535 | 14.7 | .70 38 | | - | | | - | | |
| 12 | 9.4 | 610 | 15.6 | .23 | | + | | | | | \vdash |
| 13 | 5.1 | 446 | 11.1 | 20 | | | | | | | |
| 並 | 0.8 | 230 | 7.60 | ,10 | | + | - | | | | - |
| 15 | 7.5 | 531 | 15.6 | .23 | | | | | | | |
| 1.6 | 4.2 | 407 | 7.5 | 15 | | _ | | | | | |
| 17 | 7.4 | 528 | 14-2 | .21 | | | | | | | |
| 18 | 12.3 | 711 | 18.9 | .28 | | | | | | | |
| 19 | 12,3 | 712 | 18.8 | ,28 | | | | | 1 | | |
| 20 | 11.3 | 680 | 19.3 | ,79 | | | | | | | |
| 21 | 12.0 | 702 | 20.2 | .31 | | | | | | | |
| 22 | 11.9 | 700 | 21.8 | .30 | | | | | | | |
| 23 | 11.0 | 670 | 20.5 | .32 | | | | | | | |
| 24 | 9.9 | 630 | 17.9 | .3] | | | | | | | |
| 25 26 | 10.60 | 658 | 19.3 | .32 | | 1 | \vdash | | | | <u> </u> |
| 27 | 0.2 | 415 | 11.5 | .26 | | | | | | | _ |
| 25 | 3.9 | 390 | 2.1 | 112 | | +- | | - | | | \vdash |
| 29 | 4.4 | 415 | 9.5 | 116 | | _ | | | | | |
| 30 | 10.9 | Lotato | 19.4 | 127 | | | | | | | - |
| 31 | | 201010 | 1-1124 | 161 | | 1 | | | _ | | |
| TOT. | 217.0 | 15,468 | 4.16.8 | 7.00 | | - | | | | | |
| MN. | 7.7 | 7,7,700 | 13.9 | 123 | | | | | | | |

HYDROLOGIC DATA - PLANTATION FIELD LABORATORY FORT LAUDERDALE, KLORIDA

| DATE | | SOLAR RADIATION | | | FREE V | ATER EV | AP | CLASS | A PAN |) | |
|-----------|----------|-----------------|----------------|-------|--------|---------|-------|--------|--------|----------|----------|
| SEPT | DURATION | TOT. INC. LIGHT | TOT. RADIATION | ALUM. | BLACK | | WAT | CR TEM | P. (°F | .) | |
| (MO.) | (HOURS) | | (GUNN-BELLANI) | (IN.) | (IN.) | | ALUM. | | | BLACK | |
| 1963 | | | UN ITS | ` . | | MAX. | MIN. | MN | MAX. | | MN |
| (YR.) | | | | | | | | | | | |
| 1 | 9.6 | 593 | 15.8 | . 24 | | | | | | | |
| 2 | 0.3 | 193 | 2.8 | 28 | | | | | | | |
| 3 | 4.0 | 380 | 8.0 | .02 | | | | | | | |
| _ 4 | 9.7 | 591 | 17:6 | .29 | | | | | | | |
| 5 | 10.3 | 608 | 17.4 | .2 | | | | | | | |
| 6 | 6.7 | 478 | 10.2 | .21 | | | | | | | |
| _ 7 | 7.5 | 505 | 14.3 | 37 | | | | | | | |
| 8 | 6.3 | 465 | 11.5 | 21 | | | | | | | |
| 9 | 6.9 | 481 | 13.6 | .19 | | | | | | | |
| 10 | 16.0 | 445 | 11.0 | .18 | | | | | | | |
| 11 | 67 | 471 | 13.8 | .19 | | | | | | | |
| 12 | 7.2 | 488 | 13.1 | .20 | | | | | | | |
| 13 | 8.9 | 550 | 16.5 | .24 | | | | | | | |
| 14 | 7.6 | 498 | 15/2 | .20 | | | | | | | |
| 15 | 4.8 | 397 | 11.7 | .21 | | | | | | | |
| 16 | 3.3 | 340 | 7.3 | 110 | | | | | | | |
| _17 | 7.5 | 491 | 15.60 | .24 | | | | | | | |
| 18 | 0.5 | 200 | . 6.60 | ,12 | | | | | | | |
| 19 | 0.4 | 191 | 4.6 | 11, | | | | | | | |
| 20 | 0.0 | 169 | 1.3 | 118 | | | | | | | |
| 21 | 0.8 | 214 | 1.0 | .18 | ļ | | - | | | | |
| 22 | 2.0 | 280 | 3.7 | .05 | | | | | | | |
| 23 | 2.7 | 313 | 7.3 | .12 | | | | | | | |
| 24 | 0.2 | 176 | 3.9 | .06 | | | | | | | |
| :25 | - Lil | 229 | | .13 | - | - | | | | | |
| 26 | 0.7 | 200 | 3.6 | 18 | - | _ | | | | <u> </u> | |
| 27 28 | 5.5 | 409 | | 13 | | | | | | | - |
| _ | 8.1 | 439 | 15.8 | .18 | | - | | | | | |
| 29 30 | | 556 | 14.0 | .20 | | _ | - | | | - | |
| <u>51</u> | 10.0 | 200 | 15.2 | ,30 | | | | | | | - |
| TOT. | 151.7 | 11.843 | 309/2 | 5.52 | | | | | | | _ |
| MN. | 5.1 | 11) 843 | 10.3 | 3.34 | - | + | | | | | |
| - PATE - | | | 10,5 | - 0 | | | | | | | |

| DATE | | SOLAR RADIATION | | | FREE 1 | ATER EV. | AP (| CLASS | A PAN |) | |
|-------|----------|-----------------|----------------|-------|--------------|----------|----------|-------|---------|-------|----------|
| OCT. | DURATION | TOT. INC. LIGHT | TOT. RADIATION | ALUM. | BLACK | | WATE | R TEM | P. (OF. | .) | |
| (MO.) | (HOURS) | | (GUNN-BELLANI) | (IN.) | (IN.) | | ALUM. | | | BLACK | |
| 963 | | | UNITS | | | MAX. | MTN. | MN | MAX. | um. | 'MN |
| (YR.) | | | | | | | | | | | |
| 1 | 7.5 | 471 | 16.0 | .23 | | | | | | | |
| 2 | 0.3 | 179 | 3.0 | .09 | | | | | | | |
| 3 | 2.2 | 281 | 7.1 | .20 | | | | | | | |
| L | 5.3 | 395 | 10.2 | .25 | | | | | | | |
| 5 | 7.7 | 472 | 13.3 | .30 | | | | | | | , |
| 6 | 6.4 | 429 | 11.1 | 133 | | | | | | | - |
| 7 | 2.5 | 293 | 7.1 | .24 | | | | | | | <u></u> |
| Я | 65 | 430 | 11.0 | .25 | | | | | | | |
| Q | 9.3 | 514 | 13.6 | .28 | | | \perp | | | | |
| 10 | 5.0 | | 8.5 | .14 | | _ | - | | - | | |
| 12 | 7.9 | 470 | 13.3 | .21 | | | - | | - | | \vdash |
| | 9.0 | 262 | 5.1 | .10 | | _ | \vdash | | | | |
| 13 | | 503 | 13.5 | | | _ | | | - | | - |
| 1/4 | 8.4 | 480 | 13.3 | .25 | | | | | | | |
| 16 | 8.1 | 470 | 14.2 | .20 | | _ | \vdash | - | - | | - |
| 17 | 2.7 | 289 | 4.4 | .14 | | - | - | | | | - |
| 18 | 4.8 | 363 | 8.1 | 114 | | | - | | | | _ |
| 19 | 7.9 | 458 | 11.4 | .07 | | | | | | | - |
| 20 | 7.1 | 432 | 17.4 | 729 | | | | | - | | _ |
| 21 | 8.8 | 480 | 12.1 | .14 | | _ | | | | | |
| 22 | 9.3 | 491 | 14.3 | :20 | | | | | | | _ |
| 23 | 9.1 | 485 | 14.0 | .18 | 1 | | | | | | |
| था | 8.4 | 464 | 12.9 | .19 | | | | | | | |
| 25 | 8.9 | 4760 | 13.2 | .17 | | | | | | | |
| 26 | 5.2 | 366 | 10,4 | .02 | | | | | | | |
| 27 | 3.8 | 317 | 9.6 | ,26 | | | | | | | |
| 28 | 5.8 | 381 | 12.3 | .17 | | | | | | | |
| 29 | 5.3 | 365 | 10.2 | .15 | | | | | | | |
| 30 | 9.4 | 481 | 10.9 | .24 | | | | | | | |
| 31 | 8.6 | 459 | 11.2 | .20 | | | | | | | |
| TOT. | 198.9 | 12.723 | 337,60 | 6.16 | | | | | | | |
| MN. | 6.4 | - | 10.9 | .20 | | | | | | | |

PART IV

Monthly Hydrologic Data

Plantation Field Laboratory

1963

Division 3 - Evapotranspiration of Tifway Bermudagrass at 12-, 18-, 24-, and 36-inch depth - 12/31/62 to 12/31/63

MYDROLOGIC DATA - PLANTATION FIELD LABORATORY FORT LAUDERDALE FLA.

| DATE | | | | - | | | EVA POZO | 71 S 71 | RATION | * | | .700 | | | | AVG. W | TER CORT | KNT |
|------|--------|------|-------|------|----------|-----|----------|---------|--------|------|---------|------|-------|------|------|---------|----------|------|
| VAM | W.T. | LEVE | L - 1 | 2 11 | | | TEAE | | | | W.T. | LEVE | = -21 | 0 | | UPPER ! | T. SOIL | ** |
| (MO) | 1 | 2 | 3 | h | AVO. | 1 | 2 | 3 | h | AVO. | 1. | 2 | 3 | 4 | AVG. | #WZ | Mata | W.T. |
| 1963 | 4, 1 | | (IN) | | 34 p = 0 | | | (III) | | | | | (111) | | | (IN) | (IN) | (IN) |
| (IR) | 3 | 4 | 9 | 12 | | | 6 | 8 | 11 | | 2 | 5 | 7 | 10 | | | | |
| 1 | 12 | 12 | | .12 | .12 | 16 | .10 | .15 | .21 | .15 | .24 | .18 | .17 | .30 | .22 | | | |
| 2 | .12 | .12 | | 12 | .12 | .23 | .25 | .19 | ,21 | .22 | .160 | ,25 | .25 | .13 | .20 | | | |
| 3 | 12 | .13 | | .12 | .12 | .09 | . 1 | .15 | . 1 1 | .12 | 13 | .12 | .19 | .21 | .16 | | | |
| 4 | IZ | .12 | .11 | 12 | ,12 | .09 | .12 | 16 | .10 | .12 | . 12 | .1.1 | 119 | .21 | .16 | | | |
| 5 | 12 | .13 | .1.) | .12 | .12 | .10 | .17 | 03 | .1.1. | .10 | .13 | .12 | .05 | .01 | .08 | | | |
| 6 | 12 | .12 | . [] | .12 | .12 | .10 | .09 | .14 | .10 | 1.1 | 14 | 14 | .05 | 10 | | | | |
| 7 | 11.1 | .12 | .12 | 18 | .13 | .13 | .14 | 14 | .11. | .13 | .14 | 12 | 05 | .10 | .10 | | | |
| 8 | . පි | 19 | .18 | .19 | .19 | .14 | .16 | .15 | | .14 | | .14 | .10 | .033 | | | | |
| 9 | 18 | .17 | .16 | 7 | 17 | 14 | .12 | .15 | | 13 | 06 | .05 | .12 | .12 | .09 | | | |
| 10 | .17 | .18 | .17 | .17 | .17 | .13 | 14 | .13 | 14 | 14 | 113 | .15 | 10 | .08 | 12 | | | |
| 11 | .16 | .16 | .14 | 16 | .16 | .12 | 12 | 13 | .13 | 13 | .04 | .01 | 14 | .08 | .07 | | | |
| 12 | .20 | .19) | .Z0 | .18 | .19 | 16 | -17 | 17 | .16 | .17 | 20 | .28 | .06 | .08 | .16 | | | |
| 13 | 21 | 21 | .18 | 19 | .20 | .16 | .17 | .18 | .15 | .18 | 14 | .14 | .26 | .20 | .19 | | | |
| 114 | .19 | .18 | .17 | .17 | .18 | .19 | .24 | 119 | .38 | ,25 | .41 | .47 | .36 | ,23 | .37 | | | |
| 15 | 18 | .18 | .18 | 18 | 118 | .20 | ,25 | .20 | 09 | 17 | .19 | .03 | .09 | .ZZ | | | | |
| 16 | 19 | .18 | .17 | .17 | 18 | ,20 | .13 | .19 | .10 | 16 | 08 | 1 7 | .12 | .09 | 12 | | | |
| 17 | 18 | .19 | 18 | .19 | .19 | .13 | .16 | 12 | 13 | .13 | 16 | | .10 | .12 | 12 | | | |
| 18 | 19 | 18 | 18 | .17 | .18 | 12 | .12 | .14 | 12 | .13 | .03 | .16 | .12 | .08 | .10 | | | |
| 19 | 18 | .17 | .15 | .17 | .17 | 14 | 18 | 14 | .16 | , 6 | .16 | .06 | | 12 | .20 | | | |
| 20 | .20 | .21 | .19 | .18 | 20 | 15 | .17 | 18 | A 5 MG | .16 | 16 | .76 | .08 | | . 20 | | _ | |
| 21 | 16 | .15 | .15 | 16 | .16 | .14 | .12. | .13 | .12 | .13 | .04 | .08 | 11 | .07 | .08 | | | |
| 22 | 10 | | | | . \ | .12 | .15 | .15 | . 2 | 14 | 18 | .20 | .14 | 16 | .20 | | | |
| 23 | .11 | 1 1 | 1.1 | .10 | 1 | 13 | .15 | | ,21 | | 1.5 5.5 | - | 113 | 13 | 12 | | | |
| | .10 | .10 | 1.1.1 | 09 | .10 | .15 | .14 | .13 | - | 16 | .13 | | .15 | .08 | 10 | | | |
| 25 | 11 | .10 | | .10 | 11.1 | .15 | .15 | .14 | .04 | 12 | .10 | .16 | 100 | | 110 | | | |
| 26 | 18 | .18 | 1.1 | .17 | 16 | .08 | .10 | .09 | 13 | .10 | .08 | .10 | 14 | .10 | | | | |
| 27 | 19 | .18 | .17 | 18 | 18 | .16 | .21 | .20 | 1.14 | .18 | .26 | .20 | .20 | .14 | 05. | | | |
| 28 | 111 | 09 | .09 | | .10 | .04 | 13 | 1.12 | .05 | 109 | | .04 | .02 | .20 | 115 | | | |
| 29 | .21 | .21 | .20 | .20 | .21 | .21 | .13 | .13 | 118 | 16 | 07 | .26 | | .21 | .23 | | | |
| 30 | 14 | .16 | .13 | .15 | .15 | .19 | .10 | 118 | 19 | 17 | .23 | .26 | ,23 | | .Z3 | | | |
| 31 | 14 | .15 | .13 | .16 | .15 | .18 | 10 | 18 | 119 | 16 | .22 | ,26 | 12 20 | .22 | | | | |
| TOT | 4.79 | 479 | 4.45 | 4.72 | 4.69 | 443 | 4.57 | 462 | 434 | 4.50 | 4.44 | 4.81 | 4.42 | 4 2 | 4.45 | | | |
| MEAN | .15 | .15 | 4 | .15 | 1.15 | .14 | .15 | 1.15 | 1.14 | .15 | 1.14 | .15 | 1.14 | .13 | .14 | | 1 | |

**TIFWAY BERMUDAGRASS

| DATE | | | | | | | EyAPOa. | N SIA | RATION | * | | | | | | AVG. WA | VIDER CONT | 1012/11 |
|----------|------|------|------|-------|------|-------|---------|-------|--------|------|------|--------|------|------|------|---------|------------|---------|
| JUNE | W.T. | LEVE | L - | Z " | | W.T | LEVE | L - 2 | 4" | | W.T | LEVEL | - 3 | 6* | | UPPER F | T. SOIL | ** |
| (MO) | 1 | 2 | 3 | h | AVO. | 1 | 2 | 3 | ь | AVO. | 1 | 2 | 3 | 4 | AVG. | Z.Wit | W.T. | W.T. |
| 1963 | | | (IN) | | | | | (IN) | | | | | (IN) | | | (IN) | (IN) | (IN) |
| (IR) | 3 | 4 | 9 | 12 | | | 6 | 8 | 11 | | 2 | 5 | 7 | 10 | | | | |
| 1 1 | .15 | 16 | .14 | .15 | .15 | .19 | 7.1 | .18 | .18 | dia | ,23 | .26 | .23 | .21 | .23 | | | |
| 2 | .14 | .08 | .13 | .11 | 12 | .08 | . 0 | -14 | 19 | 113 | .27 | .26 | .23 | .22 | .23 | | | |
| 3 | .18 | 9 | .13 | .18 | , 17 | .15 | ,22 | .14 | 19 | 113 | .37 | .26 | .23 | , 21 | -27 | | | |
| 14 | .16 | .13 | .15 | | ,14 | . 2 | .23 | 14 | 19 | 117 | 36 | .20 | .22 | ,23 | .25 | | | |
| 5 | 15 | .14 | .14 | .11 | 114 | .12 | .22 | .14 | .08 | . 14 | 16 | . Z. I | .23 | .23 | .21 | | | |
| 6 | .16 | .13 | .15 | .12 | .14 | .11 | .73 | .14 | .09 | .14 | | .03 | .04 | .02 | .05 | | | |
| 7 | .07 | .10 | .04 | .11 | .08 | .12 | .08 | 08 | .14 | 110 | .12 | .27 | .23 | .11 | .18 | | | |
| 8 | .07 | .09 | .03 | -11 | 103 | 12 | .07 | 08 | .15 | .10 | 12 | .26 | .24 | .12 | 13 | | | |
| 9 | .07 | 12 | .04 | 17 | .09 | .03 | .08 | .06 | .06 | .06 | .12 | | .10 | .12 | 112 | | | |
| 11 | 14 | 16 | 10 | .07 | .08 | 12 | 16 | .15 | .06 | 113 | .12 | | .10 | .20 | .13 | | | |
| 12 | .08 | .07 | .10 | .08 | OB | 111 | 17 | 12 | 15 | 14 | 12 | | 10 | .21 | 17.1 | | | |
| 13 | .03 | .09 | .10 | .07 | .07 | 1 1 | .06 | . 1 1 | .13 | 10 | . 17 | 11 | 1 1 | .10 | . 11 | | | |
| 11/1 | .02 | 09 | 10 | .07 | .07 | .12 | .66 | 17 | IZ | 10 | 12 | 11 | 10 | .10 | 4.1 | | | |
| 15 | .03 | .09 | .04 | . 1 1 | ,07 | 04 | 04 | .07 | .06 | 05 | 1 | 111 | .09 | .09 | 110 | | | |
| 16 | 14 | .13 | .13 | .13 | 113 | .17 | 14 | . 5 | . 3 | - 5 | .12 | .12 | . 0 | .09 | :1 | | | |
| 17 | 14 | .13 | .13 | .14 | .14 | .13 | .13 | .14 | .12 | 113 | | .11 | 14 | .09 | .11 | | | |
| 1.8 | 15 | .13 | .14 | .13 | .14 | .14 | 119 | .15 | .13 | .14 | .12 | .12 | 14 | .10 | 112 | | | |
| 19 | .14 | .13 | .13 | .14 | .14 | 13 | 14 | .15 | 12 | 114 | | | .14 | .09 | 1.1 | | | |
| 20 21 | .21 | .16 | .16 | .17 | 118 | .09 | .22 | .13 | 113 | 14 | .12 | .02 | .04 | .09 | .07 | | | |
| 22 | 21 | .15 | 12 | .20 | 116 | .12 | .10 | .13 | .09 | 114 | .02 | .05 | .07 | .09 | 110 | | | |
| 23 | 18 | 17 | .15 | .19 | 117 | .21 | 25 | .23 | 133 | 126 | ,32 | . 22 | .30 | .28 | .28 | | | |
| 24 | .18 | 17 | .16 | 119 | 118 | .22 | 7.6 | .23 | .07 | .20 | .14 | .20 | .18 | .06 | , 14 | | | |
| 25 | .14 | .13 | .05 | 13 | 110 | .18 | 11 | .18 | .33 | .20 | 31 | .15 | 19 | .37. | -94 | | | |
| 26 | . 3 | . 13 | .06 | 13 | | 18 | 1 1 | 18 | 14 | .15 | .10 | 1- | 18 | 13 | . 14 | | | |
| 27 | 1-4 | 13 | .05 | .13 | 3.11 | .18 | 17 | 18 | 14 | 110 | .11 | 17 | .19 | 113 | 15 | | | |
| 28 | lo. | .13 | .05 | .13 | 112 | .10 | 111 | .10 | .03 | 108 | 16 | 117 | 19 | 13 | 116 | | | |
| 29 | .15 | .12 | .21 | .13 | .15 | . 1 1 | .11 | 11 | 116 | 117 | 15 | .07 | .09 | .06 | 09 | | | |
| 30 | . 6 | .13 | Z | .13 | 116 | .10 | .11 | .10 | 115 | .12 | .16 | .08 | .10 | .07 | 110 | | | |
| 31 | | | | | | | | | | | | | | | | | | |
| TOT. | | 3.63 | 3.17 | 3.73 | 3.55 | 3.67 | 401 | 391 | 337 | 3.74 | 4.21 | 3.59 | 3.81 | 3.50 | 3.78 | | | |
| MEAN | .12 | .12 | ,11 | .12 | .12 | 112 | .13 | 113 | 1.11 | 1.12 | 114 | .12 | - 13 | .12 | .13 | | | |

HYDROLOGIC DATA - PLANTATION FIRE LABORATORY FORT LAUDERDALM YEA.

| 1963 (IR) | W.T | LEVE 2 | Ic - | 2 11 | | | | | RATION | | | | | | | | TER COLL | AND A |
|--------------|------|-----------|------|------|-------|-----|------|-------|--------|-------|------|------|-------|------|------|-------|----------|-------|
| 1963 (IR) | | 2 | | | | W.T | LEVE | L - 2 | 4" | | W.I | LEVE | - 3 | 6 | | UPPER | T. SOIL | ** |
| (IR) 1 | 3 | | 3 | 4 | AIR. | 1 | 2 | 3 | h | AWI. | 1 | 2 | 3 | ls. | AVG. | TWE | W.T. | W.T. |
| 1 | 3 | | (IN) | | | | | (III) | | | | | (III) | | | (IN) | (III) | (IN) |
| 1 | | 4 | 9 | 12 | | | 6 | 8 | | | 2 | 5 | 7 | 10 | | | | |
| 2 . | .10 | .12 | .12 | 13 | .12 | .07 | .03 | .04 | .01 | .04 | .05 | 04 | .04 | .04 | .04 | | | |
| 3 | 06 | 50, | .02 | .01 | .03 | .05 | .07 | 07 | 10 | 07 | .01 | .04 | .03 | .04 | .03 | | | |
| | 11 | .14 | .13 | .14 | .13 | .10 | .08 | .06 | .01 | .06 | .14 | .04 | .06 | .06 | .08 | | | |
| | 13 | 12 | .13 | .10 | .12 | .09 | .08 | .10 | .13 | .10 | ,06 | .05 | .07 | 06 | .06 | | | |
| | 04 | .05 | .02 | .05 | .04 | .06 | .06 | .04 | .01 | .04 | .07 | .09 | .04 | .04 | .06 | | | |
| | 05 | .03 | .06 | .03 | .06 | .03 | 02 | 04 | .06 | .04 | .02 | .05 | .04 | .04 | .04 | | | |
| | 0 | .11 | .10 | .10 | .10 | .13 | .14 | 113 | .11 | .13 | 102 | .05 | 16 | .14 | .09 | | | |
| | 11 | -11 | .10 | | | .10 | .12 | .13 | 16 | 13 | 19 | 17 | .03 | .04 | .11 | | | |
| | 10 | -11 | .10 | .10 | .10 | .06 | .07 | .08 | .12 | .08 | .19 | 1.13 | .24 | .26 | .21 | | | * |
| | 11 | .11 | 11 | Jo | | . 2 | .12 | . 1 1 | .08 | . I L | ,06 | 14 | 060 | .07 | .08 | | | |
| | 07 | .05 | .06 | .07 | .06 | .08 | .09 | .08 | .06 | .08 | ,05 | .14 | 03 | .06 | .07 | | | |
| | 07 | .07 | .06 | .06 | .07 | .08 | .10 | . [] | .14 | | .19 | 118 | .26 | .13 | .19 | | | |
| | 04 | .07 | .06 | .06 | .06 | .09 | .11 | .09 | .06 | .09 | 16 | .06 | .08 | .10 | .10 | | | |
| | 05 | .05 | .05 | .06 | .05 | .04 | 0 | .04 | .07 | .04 | .05 | .07 | .13 | .2.1 | .12 | | | |
| | 05 | .05 | .06 | .06 | .06 | 101 | 0 | .01 | 0 | 01 | .06 | .04 | .04 | .16 | .08 | | | |
| | 05 | ,05 | .05 | .06 | .05 | .19 | .19 | 16 | .09 | .16 | .14 | .14 | ,30 | 16 | .19 | | | |
| | 06 | .05 | .06 | .06 | .06 | .09 | .02 | .07 | .10 | .07 | .14 | .14 | .03 | .06 | .09 | | | |
| | 09 | 11 | .10 | .06 | .09 | .10 | .02 | 08 | 12 | .08 | .10 | .10 | .03 | .06 | .07 | | | |
| | 09 | .11 | .07 | .10 | 09 | .09 | 28 | 17 | .13 | | .6 | .10 | 112 | .06 | . [| | | |
| | 02 | | .01 | .10 | .06 | .06 | ,08 | .06 | .04 | .06 | 16 | .10 | .12 | .06 | 11 | | | |
| | 10 | | .08 | 11. | .10 | ,06 | .05 | .07 | .10 | .07 | .10 | .16 | .10 | 16 | .13 | | | |
| 22 . | 0 | .07 | .08 | .06 | .08 | 103 | .04 | .03 | .01 | .03 | .02 | .03 | .02 | .01 | .02 | | | |
| | 10 | .06 | .08 | .07 | .08 | .04 | .05 | .04 | .02 | .04 | .02 | 201 | .02 | .01 | .02 | | | |
| | 09 | .07 | .08 | .06 | .08 | .10 | .11 | .01 | .08 | .08 | .01 | ,03 | .03 | .01 | .02 | | | |
| | 04 | .10 | .15 | .06 | .09 | .07 | .06 | .08 | .06 | .07 | .02 | .02 | .02 | .02 | .02 | | | |
| - AF | 05 | .05 | .05 | .03 | .05 | .04 | .06 | .06 | ,05 | .05 | .08 | .06 | .02 | .01 | .04 | | | |
| | 10 | .06 | .05 | .06 | .07 | .07 | .07 | ,05 | .02 | .05 | .08 | .02 | .02 | .01 | .03 | | | |
| | 10 | ,16 | .15 | 16 | .14 | .13 | .1.4 | .10 | 114 | . 2 | .06 | .05 | .12 | .01 | .06 | | | |
| | 10 | .04 | .02 | ,03 | .05 | 04 | .04 | .03 | .02 | .03 | .05 | .04 | .03 | .10 | .06 | | | |
| | 04 | .04 | .03 | .04 | .04 | .04 | .08 | .04 | .04 | .05 | .04 | .05 | .05 | 111 | .06 | | | |
| | 04 | .05 | .03 | ,04 | .04 | .04 | .02 | .05 | .04 | .04 | .07 | .05 | .05 | .0.7 | .06 | | | |
| | 2.36 | 2.45 | 2.27 | 2.28 | 2.3.4 | | 240 | 2.23 | 2.15 | 2.27 | 2.57 | 240 | 2.39 | 2.37 | 2.43 | | | |
| MEAN . | .08 | .08 | .07 | .07 | .08 | .07 | .08 | .07 | .07 | .07 | .08 | .08 | ,08 | .08 | .08 | | | |

* TIFWAY BERMUDAGRASS

| DATE | | | | | | | J/ 1 (0a) | 11 3 11 | RATION | # | | | | | | AVG. W | ATER CORT | DRY |
|----------|-------|------|------|------|------|-----|-----------|---------|------------|------|------|-------|-------|------|------|--------|--|------|
| FEB. | W.T. | LEVE | L - | 12" | | W.T | LEVE | 6 - 2 | 4 " | | W.T. | LEVEL | - 30 | 0 | | UPPER | FT. SOIL | ## |
| (MO) | 1 | 2 | 3 | h | AVO. | 1 | 2 | 3 | ь | AVG. | 1 | 2 | 3 | b. | AVO. | HWI | "MaTa | W.T. |
| 1963 | | | (IN) | | -12 | | | (III) | - | | | | (III) | | | (IN) | (IH) | (IN) |
| (IR) | 3 | 4 | 9 | 12 | | | 6 | 8 | 1.1 | | 2 | 5 | 7 | 10 | | | | |
| 1 | .15 | .15 | 16 | .15 | .15 | .14 | .13 | .11 | .11 | 12 | .02 | .14 | ,01 | .10 | .07 | | | |
| 2 | .04 | .03 | .04 | .03 | .04 | .09 | 0 | .07 | .07 | .06 | .03 | .02 | .08 | .08 | .05 | | | |
| 3 | .12 | .13 | .08 | .13 | .12 | 06 | | .07 | .05 | .07 | .06 | .02 | .02 | .04 | .04 | | | |
| 4 | | .04 | .14 | .07 | .09 | .10 | .03 | 09 | | .08 | .11. | .21 | .14 | 1.3 | .15 | | | |
| 5 | . [| .04 | .14 | .07 | .09 | .10 | .03 | ,10 | 44 | .09 | 12 | .20 | 114 | .13 | .15 | | | |
| _ 6 | 05 | .05 | .02 | 07 | .05 | .10 | .03 | .03 | .06 | .06 | .12 | .20 | .14 | . 5 | 15 | | | |
| 7 | .06 | .04 | .04 | .07 | .05 | .04 | .1 | .03 | 07 | .06 | .12 | .20 | .14 | .13 | .15 | | | |
| - 8 | .13 | 24 | .14 | | . 6 | | .13 | .08 | 06 | 10 | .12 | .20 | 14 | .13 | .15 | | | |
| 9 | .12 | .13 | .10 | | .12 | | .27 | .10 | .18 | | ,25 | -11 | .2.7 | .26 | .22 | | - | |
| 10 | 12 | .13 | 11 | | .12 | | .12 | | .05 | .10 | .12. | 12 | 14 | 13 | 13 | | | |
| 11 | .08 | | .02 | .08 | .05 | .05 | .04 | 04 | .07 | .04 | 1 | 09 | .09 | 13 | 1 | | | |
| 12 | .09 | .10 | .10 | .07 | .09 | .18 | .20 | .14 | .18 | 18 | | .09 | .09 | . 07 | .09 | | | |
| 13 | .09 | .10 | | .08 | .10 | .17 | .21 | 14 | .18 | .18 | 111 | 08 | .09 | .07 | .09 | | \longrightarrow | |
| 111 | .09 | .10 | 10 | .08 | .09 | .18 | .21 | 14 | 18 | .1.8 | | 08 | .09 | 07 | .09 | | | |
| 15 | .05 | .09 | .06 | 07 | .07 | .04 | .05 | .04 | .05 | 05 | 1 | .08 | .05 | .07 | 08 | | | |
| 16 17 | .08 | .07 | .05 | .06 | .08 | .16 | .15 | .14 | 05 | .14 | | 0.3 | 08 | 06 | .08 | | | |
| 18 | .06 | 06 | .04 | .06 | .06 | | .01 | .01 | .05 | .03 | | .00 | .08 | .06 | 08 | | | |
| 19 | .07 | .00 | .05 | .07 | .06 | .04 | . 01 | ,01 | .05 | ,03 | | .08 | .08 | .06 | .08 | | | |
| 20 | .06 | .06 | .05 | .06 | .06 | .04 | .01 | .01 | .05 | .03 | .02 | .08 | .08 | .06 | .06 | | 1 | |
| 21 | .10 | 08 | .15 | .09 | 1 1 | .06 | .06 | .06 | .06 | .06 | .01 | 00 | .08 | .06 | .06 | | | |
| 22 | 13 | .15 | .08 | .13 | 12 | 172 | . 1 1 | . 1 | .07 | .10 | .01 | .01 | .04 | -04 | 03 | | | |
| 23 | .10 | .08 | .12 | .07 | .09 | .07 | .07 | .04 | .06 | .06 | .01 | .01. | .02 | .05 | .02 | | | |
| 24 | .08 | .08 | .07 | .08 | .08 | | .06 | .04 | .02 | .04 | .01 | .01 | .01 | ,04 | .02 | | | |
| 25 | .09 | .09 | .08 | .07 | .08 | | .06 | .10 | .08 | 09 | .02 | .01 | .01 | .05 | .02 | | | |
| 26 | .11 | 12 | 112 | 117. | .12 | 03 | .09 | .01 | .04 | .04 | .08 | .06 | .02 | .06 | .06 | | | |
| 27 | .12 | 12 | .12 | .13 | 12. | .18 | .09 | 19 | .13 | .15 | .08 | 114 | .10 | .09 | .10 | | | |
| 26 | , | .10 | .09 | .09 | .10 | .07 | .15 | 07 | 10 | .07 | .06 | .04 | .05 | -03 | .05 | | | |
| 29 | | - | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | |
| TOT. | 2.58 | 2.51 | 2.49 | | | | | 209 | 235 | 2.37 | 2.36 | 2.60 | 2.39 | | | | | |
| MEAN | .09 | .09 | .09 | .09 | .09 | .09 | .09 | .07 | .08 | .08 | .08 | .09 | .09 | .09 | .09 | | | |

* TIFWAY BERMUDAGRASS

EYDROLOGIC DATA - PLANTATION FIELD LARGRATORY FORT LAUDERDALE FLA.

| | | | | | | | | | | | | | | | | | f and Tafaka | |
|-------|--------------|-------|-------|---------|------|------|------|-------|------|------|-------|------------|------|------|------|-------|--------------|------|
| SEPT. | 17.6 | LEVE | e 1. | 0 = | | | | | | * | 13.00 | T West Law | | / | | | TER CONT | |
| | | | | | | | _ | L - 2 | 7 | | _ | LEYE | | | | | T. SOIL | |
| (MO) | 1 | 2 | _3_ | 4 | AVG. | 1 | 2 | 3 | 4 | AVO. | 1 | 2 | 3 | 14 | AVG. | alf E | "Mata | W.T. |
| 1963 | | | (III) | | | | | | | | | | (11) | | | (IN) | (III) | (IN) |
| (IR) | 3 | 4 | 9 | 12 | | 1 | 6 | 8 | 11 | | 2 | 5 | 7 | 10 | | | | |
| 1 1 | .11 | . (1) | 112 | 110 | . 17 | 113 | .1=3 | .12 | 113 | .13 | 112 | 110 | . 17 | . 14 | .15 | | | |
| 2 | .11 | . 11 | . 11 | ,]] | | 13 | 112 | 111 | 114 | 112 | 112 | 117 | .16 | .15 | .15 | | | |
| 3 | 112 | (11) | . 11 | 110 | .11 | , 12 | 112 | 12 | .13 | .12 | .12 | ,17 | 17 | .15 | .15 | | | |
| _ 4 | | | 8. | 110 | .11 | 13 | .12 | | 13 | 112 | 112 | 117 | 116 | 115 | 115 | | | |
| 5 | 111 | [] | .11 | 113 | .12 | 110 | 107 | 11 | 113 | .10 | .12 | 17 | 117 | .15 | .15 | | | |
| 6 | 112 | - 14 | .11 | 115 | 113 | 110 | 108 | 112 | 113 | ,11 | 113 | | 112 | 110 | .12 | | | |
| 7 | 113 | 15 | - 11 | 16 | .14 | 113 | 08 | 114 | 113 | .12 | .12 | .12 | 111 | 411 | ,12 | | | |
| 8 | .12 | 114 | | 115 | 113 | . 4 | 00 | 115 | .14 | 113 | 13 | ,11 | 12 | 110 | .12 | | | |
| 9 | .13 | 117 | 111 | 112 | .12 | 11-3 | ,09 | .14 | - 14 | 112 | 112 | 112 | 111 | | .12 | | | |
| 10 | 112 | 113 | 14 | 112 | 113 | 14 | 109 | .13 | 113 | .12 | 112 | 111 | .12 | 111 | 112 | | | |
| 11 | 113 | .12 | لجيد | 12 | 113 | 14 | 100 | 14 | 112 | .12 | 112 | 12 | 11 | -17 | 112 | | | |
| 12 | <u> 113</u> | | 112 | 13 | .12 | .14 | .09 | 113 | 113 | .12 | 112 | | ,12 | 111 | .17 | | - | |
| 13 | <u>چل</u> ار | 112 | 14 | 115 | 14 | 110 | 104 | | 104 | 120 | 11/2 | 12 | 111 | 44 | .12 | | | |
| 15 | 117 | 14 | 115 | .15 | 115 | | .23 | 11.2 | ,08 | . 14 | 112 | 1 | 112 | 1 | 1/2 | | | |
| 16 | 10 | 1/2 | 113 | 113 | 112 | 10 | .23 | 1/2 | 109 | 14 | .12 | 112 | | 11 | 112 | | | |
| 17 | .06 | 00. | 106 | ,05 | .06 | 06 | .23 | 116 | 109 | 114 | 117 | 112 | | ,07 | 10 | | - | |
| 18 | 014 | .DLa | 100 | .05 | 106 | .07 | 107 | .07 | .06 | ,04 | 11/2 | 113 | 106 | ,07 | .10 | | | |
| 19 | 106 | .DLa | ,05 | .06 | .06 | 07 | .07 | 106 | 100 | .06 | 112 | 13 | 100 | .07 | 29 | | | |
| 20 | 060 | ,06 | 100 | 105 | .06 | 07 | 108 | ,06 | 105 | 106 | 10 | 112 | .00 | 07 | 109 | | | |
| 21 | 1060 | 106 | 105 | .06 | ,06 | .07 | 107 | .010 | 06 | 100 | 110 | 1/3 | .06 | 107 | .09 | | | |
| 22 | 104 | ,00 | .06 | .05 | .06 | . 07 | 108 | | 1040 | ,07 | .10 | 112 | 100 | 107 | .09 | | | |
| 23 | ,06 | .06 | 105 | .06 | .06 | 107 | .07 | .06 | 106 | ,06 | ,09 | . 13 | 1000 | 107 | .09 | | | |
| 24 | .05 | .06 | .00 | 105 | .06 | | .07 | .000 | | 1060 | ,09 | 114 | .06 | 107 | .09 | | | |
| 25 | .06 | .06 | 105 | .06 | .000 | | .07 | 104 | ,06 | .060 | .09 | 113 | 100 | 107 | .09 | | | |
| 26 | 06 | .06 | | .05 | .06 | .07 | .07 | .060 | | .06 | ,09 | .14 | 106 | .07 | .09 | | | |
| 27 | 100 | .06 | 105 | .05 | 106 | ,07 | . 07 | .06 | ,06 | 1060 | .09 | .13 | 106 | ,07 | .09 | | | |
| 28 | 108 | 08 | 110 | - y - 1 | .12 | ,09 | 104 | | 106 | 106 | 09 | 114 | 106 | 107 | .09 | | | |
| 29 | .08 | ,09 | 112 | 111 | .10 | .06 | .04 | .10 | .04 | ,06 | .00 | 113 | .06 | 107 | .09 | | | |
| 3(1 | 08 | .09 | .13 | 111 | 110 | 0 | 104 | 10 | .04 | .06 | .09 | . 14 | .05 | .07 | .09 | | | |
| 31 | | | | | | | | | | | | | - | | | | | |
| TOT. | | | 2.84- | 1190 | 284 | 2.90 | 280 | 2.86 | 271 | 2.87 | 3.3 | 3.99 | 2.92 | 2.87 | 3.27 | | | |
| MEAN | .09 | .09 | .09 | .10 | .09 | 10 | .09 | .10 | .09 | 109 | .11 | .13 | 110 | .10 | . | | | |

* TIFWAY BERMUDAGRASS

| DATE | | | | | | 1 | A / 1 (02) | 11 3 11 | RATION | * | | | | | | AVG. W | TER CONT | THE |
|----------|------|------|-------|---------|------|------|------------|---------|--------|------|-----|-------------|-------|------|------|--------|----------|------|
| OCT. | W.T | LEVE | L - / | 2 • | | W.I | LEVE | 6-2 | 4 ** | | W.T | LEVE | - 30 | 0 | | UPPER | T. SOIL | ** |
| (MO) | 1 | 2 | 3 | h | AVG. | 1 | 2 | 3 | lı. | AVG. | 1. | 2 | 3 | lı l | AVG. | #W.Z | M.T. | ₩. |
| 963 | | | (IH) | | | | | (IN) | | | | | (III) | | | (IN) | (IN) | (IN) |
| (IR) | 3 | 4 | 9 | 12 | | | 6 | 8 | 11 | | 2 | 5 | 7 | 10 | | | | |
| 1 | .12 | . 17 | . 11 | 113 | .12 | .05 | .07 | 0 | ,05 | .07 | .09 | . 11 | .11 | .03 | .08 | | | |
| 2 | ,12 | 112 | 114 | 112 | 12 | ,06 | 105 | 112 | .05 | . 07 | ,14 | 112 | 110 | .04 | 110 | | | |
| _3 | 113 | 113 | 115 | 13 | 14 | .13 | 113 | 4.11 | .14 | 13 | 119 | 111 | 0.11 | 2 | . 3 | | | |
| 4 | 3 | .12 | .14 | 112 | 113 | .12 | .14 | .12 | 113 | 113 | .19 | 117 | 110 | 113 | 114 | | | |
| 5 | .13 | 113 | 115 | 113 | .14 | 113 | 113 | 111 | .14 | 113 | 119 | 10.1 | 110 | .13 | .13 | | | |
| 6 | 10 | 411 | 110 | 112 | 11 | :13 | .13 | 112 | 114 | 113 | 119 | | .10 | 113 | . 3 | | - | |
| 7 | цọ | 11 | 112 | 113 | .12 | ПÖ | 14 | 1 | 113 | .12 | .19 | 444 | x: | 113 | 114 | | | |
| 8 | | 10 | 117 | 113 | 112 | .09 | 107 | 111 | .09 | .09 | .19 | .00 | 110 | 113 | 13 | | | |
| 9 | .14 | 11% | 112 | .13 | ,13 | 110 | .08 | 10 | 108 | .09 | .19 | .08 | 10 | 13 | 12 | | | |
| 10 | 10 | 11/2 | 111 | 11 | 11 | .09 | 109 | ,09 | .09 | .09 | 19 | ,08 | 110 | 116 | 12 | | | |
| 12 | .09 | 12 | | | | .09 | .09 | 09 | :08 | 109 | .19 | 01 | 10 | 110 | 10 | | | |
| 13 | 12 | 12 | 10 | 13 | .12 | 110 | 109 | 107 | .08 | 108 | .19 | 109 | 110 | 10 | 2 | | | |
| ĪĹ. | 1.10 | 111 | 112 | .13 | .12 | .10 | .08 | 108 | 03 | .08 | 19 | .09 | .10 | 111. | .12 | | | |
| 15 | 09 | 109 | .09 | 00 | .09 | ,09 | -10 | .12 | ,07 | 110 | 10 | 100 | .11 | 10/0 | 100 | | | |
| 16 | .10 | 108 | OB | 108 | 108 | 110 | 110 | .13 | 060 | 10 | .09 | .09 | ,11 | .07 | .09 | | | |
| 17 | .09 | ,09 | .09 | .09 | 109 | ,09 | 110 | 112 | .07 | .10 | .09 | .09 | 111 | 106 | .09 | | | _ |
| 18 | 110 | ,09 | 108 | .09 | ,09 | 110 | 10 | 113 | .06 | 110 | 109 | .09 | 110 | .07 | 104 | | | |
| 19 | 109 | 109 | .09 | ,09 | .09 | .09 | 110 | 112 | 107 | 110 | .09 | ,09 | .10 | .07 | ,09 | | | |
| 20 | 110 | ,09 | 108 | 109 | .09 | ,09 | 110 | 11 | 1.06 | .09 | .09 | 109 | 110 | 107 | .09 | | | |
| 21 22 | .13 | 114 | 114 | 117 | 13 | .09 | 110 | 117 | 107 | 110 | .09 | ,09 | 10 | .07 | 29 | _ | | |
| 23 | 12 | 11.6 | 44 | 17 | 112 | .08 | 09 | 08 | ,07 | .06 | .09 | .09 | ,06 | .07 | | | | |
| 24 | 711 | 109 | 110 | 110 | 10 | , 07 | 108 | 100 | .03 | .00 | 104 | | - | .07 | ,06 | | | |
| 25 | 13 | 110 | 111 | 100 | | 108 | 108 | 109 | 103 | .01 | .04 | .07 | .06 | 107 | 06 | | | |
| 26 | 108 | 1/28 | 108 | 10B | | 110 | .08 | 07 | .05 | 108 | ,04 | ,07 | .06 | ,07 | 100 | | | |
| 27 | 00 | 108 | ,08 | 10 | OB | 05 | .04 | .07 | 103 | .05 | .04 | 000 | ,05 | .06 | 105 | | | |
| 28 | 111 | 10 | 100 | 111 | 110 | ,09 | ,04 | 101 | ,05 | 108 | .07 | 106 | 106 | 06 | 06 | - | - | - |
| 29 | 108 | 117 | 117 | ,13 | 11 | .06 | .07 | .08 | 04 | 100 | 67 | 100 | 105 | 100 | 06 | | | |
| 30 | 15 | .13 | 113 | 13 | 14 | 111 | 11 | , 11 | 1.06 | 110 | .07 | 106 | 105 | 06 | .06 | | | |
| 31 | 116 | 112 | 112 | .13 | 113 | 110 | | 10 | .07 | 110 | .07 | 106 | 105 | .06 | .06 | | | |
| ror. | 3,45 | 3.35 | 3.45 | 3.47 | 3.43 | 2.83 | 284 | | | | | 2.71 | 2.72 | 2.6 | 2.85 | | | |
| MEAN | 111 | 111 | 111 | +11 | . | 109 | .09 | .10 | .07 | 09 | 111 | .09 | 09 | 08 | .09 | | | |
| * | - T | FW | SY P | SE Z. N | AUP. | AGR, | 455 | | | | | | | | | | | |

PART V

Monthly Hydrologic Data

Everglades Experiment Station

1963

Division 1 - Rainfall, Air Temperature, Wind

HYDROLOGIC DATA - EVERGLADES EXPERIMENT STATION BELLE GLADE, FLORIDA

| HYD ROLOGIC | DATA | - | EVERGLAI | ES | EXPERIMENT | STATION |
|-------------|------|----|----------|-----|------------|---------|
| | BEI | JΕ | GLADE. | FLO | ORIDA | |

| DATE | RAIN FALL | AIR | TEMP. (O | F) | WIND | MAX 1 | | REMARKS |
|---------------|-----------|-------|----------|------|-------|-------|-----|---------|
| MO. | (IN.) | MAX. | MIN. | MIN | (MI.) | (%) | | |
| 1963 (YR.) | | | | | | - | | |
| 1 | | 70 | 41 | 55.5 | 51 | 160 | 49 | |
| 2 | | 68 | 45 | 56.5 | 97 | 100 | 42 | |
| 3 | | 67 | 46 | 56.5 | 51 | 99 | 38 | |
| 4 | | 65 | 42 | 53.5 | 85 | 100 | 46 | |
| 5 | | 73 | 48 | 60.5 | 56 | | 57 | |
| 6 | | 74 | 52 | 63.6 | 30 | 100 | 57 | |
| 7 | 0.11 | 76 | 52 | 69.0 | 191 | 100 | 56 | |
| 8 | .04 | 63 | 46 | 59.5 | 45 | 100 | 70 | |
| 9 | .02 | 61 | 35 | 48.6 | 84 | 100 | 6.3 | |
| 10 | | 69 | 38 | 516 | 28 | 100 | 44 | |
| 11 | | 74 | 41 | 57.5 | 23 | | 48 | |
| 12 | | 81 | 60 | 705 | 39 | | 58 | |
| 13 | | 86 | 66 | 73.6 | 60 | 100 | 54 | |
| 24 | | 85 | 60 | 72.5 | 64 | 100 | 59 | |
| 15 | | 77 | 58 | 675 | 60 | 100 | 78 | |
| 16 | | 70 | 57 | 635 | 79 | 100 | 81 | |
| 17 | | 72 | 56 | 690 | 51 | 100 | 82 | |
| 18 | | 82_ | 52 | 670 | 53 | 100 | 56 | |
| 19 | | 84 | 56 | 700 | 38 | 100 | 57 | |
| 20 | | 93 | 57 | 70.0 | 57 | 100 | 60 | |
| 21 | ,17 | 86 | 61 | 73 5 | 148 | 100 | 55 | |
| 22 | .29 | 69 | 94 | 565 | 98 | 100 | 64 | |
| 23 | | 73 | 54 | 63.5 | 56 | 100 | 54 | |
| 2i, | | 85 | 63 | 72.5 | 90 | 100 | 64 | |
| 25 | | 68 | 97 | 57.5 | 104 | 100 | 70 | |
| 26 | | 71 | 61 | 660 | 49 | 100 | 70 | |
| 27 | ,35 | .77 | 57 | 67.0 | 47 | 100 | 80 | |
| 28 | | 82 | 53 | 675 | 117 | 100 | 60 | |
| 29 | | 72 | 56 | 64.6 | 61 | 100 | 65 | |
| 30 | | 75 | 56 | 65.5 | 77 | | 56 | 1.6 |
| 31 | | 76 | 57 | 665 | 31 | 100 | 70 | |
| TOT. | 0.98 | 2,306 | 1,611 | _ | 2,064 | ann | _ | |
| MN. | | 74.4 | 520 | 632 | | ~~~ | | |

| DATE FEB | RAIN FALL | AIR | TEMP. (| F) | WIND | MAX MIN. REL. HUM. | REMARKS |
|-------------|-----------|--------|---------|------|-------|-----------------------|----------|
| MO. | (IN.) | MAX. | MIN. | MIN | (MI.) | (%) | |
| 1963 | | | | | | | |
| (YR.) | | | | | | | |
| 1 | | 81 | 52 | 665 | 29 | 100 50 | |
| 2 | | 78 | 53 | 65 5 | 25_ | 100 62 | |
| 3 | | 82 | 52 | 670 | 53 | 100 56 | |
| 4 | 0.76 | 83 | 59 | 71.6 | 85 | 100 51 | |
| _ 5 | | 72 | 49 | 605 | 101 | 100 70 | |
| 6 | | 58 | 49 | 535 | 126 | 100 89 | |
| 7 | | 65 | 46 | 55.5 | 133 | 100 62 | |
| 8 | | 75 | 51 | 630 | 107 | 100 40 | |
| 9 | | 75 | 45 | 606 | 93 | 100 53 | |
| 10 | | 70 | 43 | 56 5 | 46 | 100 60 | |
| 11 | | 74 | 57 | 65.5 | 21 | 100 56 | |
| 12 | 028 | 83 | 66 | 79.5 | 146 | 100 53 | |
| 13 | 0 79 | 75 | 49 | 626 | 171 | 100 83 | |
| 14 | | 59 | 39 | 490 | 75 | 100 60 | |
| 15 | | 68 | 41 | 54.5 | 36 | 100 60 | |
| 16 | 002 | 65 | 49 | 57.6 | 38 | 98 30 | |
| 17 | 060 | 61 | 52 | 56.5 | 62 | 100 83 | |
| 18 | | 66 | 53 | 59.5 | 76 | 100 78 | |
| 19 | 002 | 75 | 60 | 675 | 102 | 100 71 | |
| 20 | 0 38 | 83 | 52 | 67.5 | 155 | 100 64 | |
| 21 | 7 | 64 | 40 | 726 | 50 | 100 57 | <u> </u> |
| 22 | | 75 | 40 | 575 | 37 | 100 92 | |
| 23 | | 71 | 50 | 60.0 | 102 | 99 55 | |
| 2/4 | | 79 | 52 | 655 | 107 | 100 64 | |
| 25 | 0.07 | 83 | 56 | 69.5 | 91 | 100 69 | |
| 26 | | 79 | 58 | 685 | 60 | 100 64 | |
| 27 | 057 | 82 | 43 | 625 | 229 | 100 64 | |
| 28 | | 60 | 41 | 500 | 63 | 99 59 | |
| 29 | | | | | | | |
| 30 | | | | | | | |
| 31 | | | | | | | |
| TOT. | 3.49 | 2,0-11 | 1,347 | | 2,419 | | |
| MN. | | 729 | 99.9 | 61.4 | | | |

HYD ROLOGIC DATA - EVERGLADES EXPERIMENT STATION BELLE GLADE, FLORIDA

HYDROLOGIC DATA - EVERGLADES EXPERIMENT STATION BELLE GLADE, FLORIDA

| DATE | RAIN FALL | AIF | TEMP. (| F) | WIND | MAX MIN. REL. HUM. | REMARKS |
|-------|-----------|-------|---------|------|-------|-----------------------|---------|
| MO. | (IN.) | MAX. | MIN. | MIN | (MI.) | (%) | |
| 1963 | | | | | | | |
| (YR.) | | | | | | | |
| 1 | | 180 | 65 | 725 | 76 | 97-56 | |
| 2 | 6,17 | 80 | 60 | 70.0 | 84 | 100 - 76 | |
| 3 | 0.15 | 78 | 64 | 71.6 | 94 | 100 - 76 | |
| la. | 3.66 | 71 | 63 | 67.0 | 115 | 100 - 98 | |
| 5 | 0.01 | 79 | 61 | 700 | 88 | 100 - 60 | |
| 6 | 0.02 | 79 | 50 | 64 5 | 66 | 100 - 54 | |
| 7 | | 85 | 60 | 72.0 | 74 | 100 - 44 | |
| 8 | | 87 | 59 | 730 | 38 | 100-94 | |
| 0 | | 85 | 57 | 71.0 | 39 | 100-53 | |
| 10 | | 86 | 61 | 73.5 | 28 | 100-51 | |
| 11 | 1 | 87 | 64 | 75.5 | 69 | 100 - 52 | |
| 12 | 1 | 90 | 62 | 760 | 45 | 100 - 40 | |
| 13 | | 90 | 67 | 785 | -78 | 100-46 | |
| 24 | 0.11 | 87 | 64 | 75.5 | 83 | 100 - 80 | |
| 15 | | 80 | 59 | 69.5 | 91 | 100-60 | |
| 16 | | 89 | 65 | 77.6 | 24 | 100 - 56 | |
| 17 | | 90 | 63 | 765 | 40 | 100-54 | |
| 18 | | 92 | 64 | 780 | 50 | 100-96 | |
| 19 | | 90 | 64 | 776 | 37 | 100 - 52 | |
| 20 | | 88 | 65 | 765 | 38 | 100 - 54 | |
| 21 | | 88 | 66 | 770 | 29 | 100-60 | |
| 22 | 0.89 | 83 | 68 | 75.5 | 28 | 100-83 | |
| 23 | 0 02 | 87 | 67 | 770 | 32 | 100- 68 | |
| 21, | 0 05 | 89 | 66 | 77.5 | 19 | 100 - 60 | |
| 25 | 004 | 87 | 67 | 770 | 49 | 100 - 70 | |
| 26 | 1 | 89 | 69 | 790 | 14 | 100 - 57 | |
| 27 | 1-14 | 90 | 48 | 790 | 33 | 100- 56 | |
| 28 | 0 03 | 83 | 70 | 76.5 | 11 | 100-66 | |
| 29 | 0.05 | 83 | 66 | 745 | 24 | 100 - 84 | |
| 30 | 0 20 | 87 | 69 | 780 | .30 | 100 - 68 | |
| 31 | 0.52 | 86 | 65 | 75.5 | 19 | 100-64 | |
| TOT. | 7.06 | 2.645 | 1,778 | _ | 1,460 | | |
| MN. | | 85,3 | 638 | 74.5 | | | |

| DATE | RAIN FALL | AIR | TEMP. (O | F) | WIND | MAX I | | REMARKS |
|-------|-----------|-------|----------|------|-------|-------|-----|---------|
| MO. | (IN.) | MAX. | MIN. | MN | (MI.) | (%) | | |
| 1963 | | | | | | | | |
| (YR.) | | | | | | | | |
| 1 | 0.07 | 85 | 68 | 760 | 76 | 100 | 70 | |
| 2 | 0.05 | 81 | 69 | 75.0 | 44 | 100 | 71 | |
| 3 | 1.40 | 88 | 69 | 78 5 | 48 | 100 | 65 | |
| 14 | 0.07 | 86 | 67 | 765 | 11 | 100 | 70 | |
| 5 | 0.44 | 88 | 69 | 785 | 23 | 100 | 64 | |
| 6 | 0.43 | 90 | 67 | 785 | 65 | 100 | 63 | |
| 7 | | 85 | 66 | 75.5 | 4 | 100 | 60 | |
| 8 | | 86 | 68 | 77.0 | 15 | 100 | 64 | |
| . 9 | 0.16 | 85 | 67 | 76.0 | 14 | 100 | 60 | |
| 10 | | 29 | 69 | 79.0 | 83 | 100 | 56 | |
| 11 | 0 02 | 90 | 69 | 79.5 | 96 | 100 | 60 | |
| 12 | | 90 | 7/ | 80.5 | 46 | 100 | 60 | |
| 13 | 084 | 91 | 74 | 825 | 50 | 100 | 64 | |
| 14 | | 87 | 72 | 79.5 | 11 | 100 | 74 | |
| 15 | | 90 | 71 | 80.5 | 66 | 100 | 63 | |
| 16 | 0.91 | 90 | 71 | 80.5 | 8 | 100 | 68 | |
| 17 | 0.26 | 87 | 72 | 79.5 | 98 | 100 | 78 | |
| 18 | 0.73 | 92 | 69 | 80.5 | 0 | 100 | 60 | |
| 19 | 095 | 91 | 70 | 81-0 | 7 | 100 | 66 | |
| 20 | | 91 | 68 | 79.5 | 93 | 100 | 66 | |
| 21 | | 90 | 71 | 80.5 | 49 | 100 | 60 | |
| 22 | | 90 | 69 | 79.5 | 49 | 100 | 58 | |
| 23 | | 91 | 69 | 800 | 20 | 100 | 58 | |
| 24 | 009 | 89 | 71 | 80.0 | 22 | 100 | 64 | |
| 25 | | 90 | 69 | 79.5 | 38 | 100 | 56 | |
| 26 | 001 | 84 | 70 | 77.0 | 20 | 100 | 74 | |
| 27 | 1.15 | 86 | 69 | 775 | 41 | 100 | 74 | |
| 28 | 1.20 | 88 | 68 | 780 | 21 | 100 | 72_ | |
| 29 | 260 | 88 | 67 | 775 | 23 | 100 | 70 | |
| 30 | 021 | 90 | 71 | 80.5 | 23 | 100 | 62 | |
| 31 | | | | | | | | |
| TOT. | 11.59 | 2.648 | 2.341 | | 1.114 | | | |
| MN. | | es.3 | 69.3 | 78.8 | | - | | |

HYDROLOGIC DATA - EVERGIADES EXPERIMENT STATION BELLE GLADE, FLORIDA

| STALLO | |
|--------------|-----------------|
| EAFERTMENT | FLORIDA |
| TAPKATANTA I | BELLE GLADE, FL |
| - MAIA - | BELLE |
| DID WOOG | |
| | |
| | |

| 1 | | + | | _ | | | | | | | | | | | = | | = | | | _ | | | | - | | | | | | | \rightarrow | | $\overline{}$ | \neg |
|--|-------|--------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---------------|-----|---------------|--------|
| AIR TEMP. (~F | MIN. | | 64 | 89 | 70 | 68 | 63 | 11 | 67 | 00 | 68 | 09 | 67 | 62 | 69 | 00 | 74 | 64 | 69 | 63 | 63 | 63 | 54 | 56 | 651 | 64 | 63 | 99 | 63 | 00 | 65 | 90 | 15 | 1.963 |
| - | MAX. | | 98 | 87 | 85 | 87 | 18 | 00 | 86 | 87 | 67 | 80 | 82 | 18 | 83 | 85 | 252 | 84 | 82 | 83 | 83 | 83 | 83 | 84 | 85 | 8 | 64 | 88 | 85 | F35 | 85 | 18 | 28 | 2.607 |
| The state of the s | (IN.) | | _ | 900 | 0.58 | 10.0 | | | | 10.0 | | 0.37 | 61.0 | 40.0 | | | | 0.13 | 0.18 | 0.02 | | 100 | | | | | | | | | | | | 1.60 |
| OCT | MO. | 1963 (m.) | 1 | · eu | 3 | 7 | Ľ | 9 | 7 | 8 | 0 | 10 | 11 | 27 | 13 | 77 | 15 | 36 | 17 | 18 | 19 | 20 | 21 | 81 | 23 | 777 | 25 | 98 | 22 | 88 | 53 | 30 | 71 | TOT. |
| FOS MA FORS | | | | | | | | | | | | | | | | | | | | | | | £ | | | | | | - | | | | | |
| HUM. | | | 151 | 20 | 72 | 73 | 7.3 | 18 | 57 | 65 | 1 | 21 | 50 | 47 | 96 | 古 | 58 | 09 | 57 | 63 | 63 | 78 | 8.3 | 75 | 6.5 | 79 | 80 | 82 | 77 | 68 | 09 | 57 | | |
| REL. HUM. | (%) | | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 1 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | |
| 1110 | (MI.) | | 48 | 14 | 21 | 44 | 19 | 12 | 35 | 27 | 2(| 38 | 20 | 34 | 25 | 23 | 38 | 38 | 45 | 33 | 28 | 36 | 40 | 09 | 5 | 23 | 28 | 21 | 29 | 28 | 75 | 811 | | 1,080 |
| , | NON | | 92.0 | 8 | 795 | 81.5 | 80 5 | 83.4 | 81.5 | 81.5 | 078 | 78.5 | 79.0 | 290 | 81.0 | 91.0 | 80.0 | 805 | 81.0 | 79.5 | 79.5 | 76.5 | 76.0 | 80.0 | 79.5 | 77.5 | 77.0 | 77.6 | 79.5 | 83.5 | R30 | 785 | | 1 |
| | MIN. | | 72 | 11 | 11 | 11 | 70 | 74 | 71 | 11 | 72 | 68 | 69 | 68 | 70 | 11 | 11 | 11 | 72 | 11 | 72 | 11 | 71 | 79 | 70 | 72 | 72 | 73 | 11 | 75 | 76 | 67 | | 2138 |
| | MAX. | | 92 | 90 | 88 | 26 | 15 | 93 | 92 | 25 | 06 | 88 | 83 | 90 | 92 | 16 | 88 | 96 | 05 | 88 | 87 | 85 | 9 | 86 | 89 | 83 | 82 | 18 | 88 | 92 | 05 | 06 | \rightarrow | 2659 |
| | (IN.) | | _ | 0.40 | 0.62 | | 1.19 | | | | 1.04 | | | | 0.67 | | | 0.02 | 0.05 | 0.0% | 10.0 | 0,23 | 017 | 0.05 | 505 | 002 | 1.34 | 025 | 1.24 | | | | | 9.27 |
| SEPT | MO. | (YR.) | 1 | ON | K | 77 | 5 | 9 | 7 | 83 | 0 | 10 | 7 | 12 | 13 | 77. | 15 | 97 | 17 | 18 | 19 | 20 | 27 | 8 | 23 | 777 | 25 | 8 | 12 | 88 | 62 | 30 | 31 | TOT. |

| | _ | Т | | | 1 | - | | - | _ | _ | | | | | | - | | 7 | Ī | | | | | | | _ | | _ | | | | -1 | | | | |
|----------------|-------|------|-------|-----|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|------|-----|------|------|----|---------|-----|------|----|-------|------|
| HE WA RES | | | | | | | | | | | | | 3 | | | 173 | | | | | | | | | | | | | | | | | | | | |
| MIN. | | | | 47 | 52 | 68 | 63 | 4 | 52 | 64 | 52 | 15 | 64 | 99 | 62 | 68 | 50 | 19 | 54 | 79 | 63 | 67 | 47 | 50 | 36 | 50 | 63 | 58 | 55 | 50 | 42 | 46 | 50 | 46 | } | |
| MAX MI | (%) | 1 | | 100 | 100 | 100 | 100 | 88 | 95 | 95 | 001 | 100 | 100 | 100 | 100 | 001 | 100 | 100 | 100 | 001 | 100 | 100 | 100 | 100 | 001 | 100 | 100 | 100 | 100 | 56 | 700 | 100 | 88 | 44 | | |
| WIND | (MI.) | | | 28 | 46 | 64 | 64 | 100 | 152 | 175 | 114 | 84 | 58 | 54 | 28 | 104 | 6 | 67 | 93 | 67 | 90 | 82 | 102 | 9 | 36 | 99 | 122 | 59 | 17 | 32 | 25 | 23 | 65 | 57 | 2,159 | |
| 0 | MIN | | | 750 | 77.5 | 77.5 | 77.5 | 75.0 | 26.6 | 765 | 774 | 77.5 | 72.0 | 74.5 | 71.5 | 71.6 | 72.5 | 75.5 | NO | 73.0 | 730 | 73.0 | 730 | 685 | 700 | 75.6 | 740 | 73.5 | 75.5 | NO | 725 | 750 | 65.5 | | 1 | 737 |
| AIR TEMP. (OF) | MIN. | | | 64 | 89 | 70 | 89 | 63 | 11 | 67 | 68 | 68 | 09 | 67 | 62 | 69 | 02 | 74 | 64 | 69 | 63 | 63 | 63 | 54 | 56 | 65 | 64 | 63 | 99 | 63 | 09 | 65 | 90 | 51 | 1963 | 133 |
| AIR | MAX. | | | 98 | 87 | 85 | 87 | 18 | 00 | 86 | 87 | 67 | 88 | 82 | 100 | 83 | 85 | 500 | 84 | 82 | 83 | 83 | 83 | 83 | 84 | 88 | 8 | 64 | 88 | 85 | PAS PAS | 85 | 18 | 78 | 2.607 | 1 50 |
| RAINFALL | (DN.) | | | _ | 900 | 0.58 | 10.0 | | | | 10.0 | | 0.37 | 61.0 | 40.0 | | | | 0.13 | 81.0 | 0.05 | | 100 | | | | | | | | | | | | 1.60 | |
| DATE | MO. | 1963 | (TR.) | 1 | 100 | 3 | 77 | c | 9 | 7 | 8 | 6 | 10 | 11 | 12 | 13 | 77 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 83 | 23 | 211 | 25 | 98 | 27 | 88 | 29 | 30 | 31 | TOT. | 200 |

PART V

Monthly Hydrologic Data

Everglades Experiment Station

1963

Division 2 - Standard Pan and Land Tank Evaporation

HYDROLOGIC DATA - EVERGLADES EXPERIMENT STATION BELLE GLADE, FLORIDA

| DATE | SOLAR I | RADIATION | | PREE WATER | EVAPORATION | | EVAPOTRAN | SPIRATION |
|-------|-----------|---------------|--------|------------|-------------|------------|------------|-------------|
| JAN | NET R. | TOTAL R. | STD. C | | | TANKS | EVAPOTRANS | PIROME TERS |
| (MO.) | LANGLEY'S | GUNN-BELLAN I | P2 | P3 | T7 (ALUM.) | TS (BLACK) | Tl | 72 |
| | | UNITE | (IN.) | (IN.) | (IN.) | (IN.) | (IN.) | (IN.) |
| 963 | - | 1102000 | () | (TU+) | (774+) | / 200 4 7 | / 2010 / | (200) |
| (YR.) | | | 9 | 1112 | 1.0 | 1.2 | | |
| 1 | | | 0.12 | ,13 | 119 | 18 | | |
| 2 | 2 | | 11 | 11 | .12 | 13 | | |
| 3 | | | .11 | 13 | 16 | 1.5 | | |
| L | | | 06 | .14 | .15 | .17 | | |
| . 5 | | | 10 | .11 | ./2 | .11 | | |
| 6 | | | .17 | .09 | .06 | .06 | | |
| 7 | | | 13 | .13 | .11 | .12 | | |
| 8 | | | .12 | 10 | .12 | 11 | | |
| Q | | | .07 | 09 | .12 | 14 | | |
| 10 | | | .11 | 10 | -12 | .13 | | |
| 11 | <u> </u> | | .09 | 10 | .10 | .09 | | |
| 12 | L | | 08 | 08 | .05 | .04 | | |
| 13 | ļ | | -11 | 11 | .05 | .05 | | |
| 11. | <u> </u> | | .12 | 12 | .05 | -04 | | |
| 15 | | | -10 | 11: | 08 | .08 | | |
| 16 | 1 | | .07 | 08 | .06 | 07 | | |
| 17 | | | 06 | .03 | 0.5 | 106 | | |
| 18. | L | | .10 | 13 | .09 | .69 | | |
| 19 | | | -13 | 14 | 09 | .08 | | |
| 20 | | | 12 | 14 | .08 | .07 | | |
| 21 | | | .15 | 16 | .08 | .08 | | |
| 22 | | | .13 | ./3 | .16 | .19 | | |
| 23 | | | .11 | 10 | .12 | -11 | | |
| 21. | | | - 11 | 11 | .06 | .06 | | |
| 25 | | | .11 | 19 | .19 | .19 | | |
| 26 | | | 06 | 05 | .04 | 06 | | |
| 27 | | 1 | .02 | 04 | .01 | .13 | | |
| 28 | | | .16 | 16 | ./3 | | | |
| 20 | | | .10 | 05 | .09 | .09 | | |
| 30 | | | 14 | 15 | 111 | -12 | | |
| 51 | | | .09 | 3 37 | ,0.5 | .06 | | |
| TOT. | | | 3.26 | 3.37 | 301 | 3.06 | | |

| DATE | SOLAR | RADIATION | | PREE WATER | EVAPORATION | | EVAPOTRAN | SPIRATION |
|-------|--|---------------|--------|------------|-------------|------------|------------|-------------|
| FEB | NET R. | TOTAL R. | STD. C | LASS A | LANI | TANKS | EVAPOTRANS | PIROMETERS |
| (MO.) | LANGLEY'S | GUNN-BELLAN I | P2 | P3 | T7 (ALUM.) | T8 (BLACK) | Tl | T2 |
| 1963 | | UNITE | (IN.) | (IN.) | (IN.) | (IN+) | (IN.) | (IN.) |
| (YR.) | | - | | | | | | |
| 1 | | | .11 | .14 | .11 | .10 | | |
| 2 | | | .00 | .08 | 06 | .67 | | |
| 3 | | | .08 | .14 | 10 | .17 | | |
| I. | | | -15 | .16 | 14 | 14 | | |
| 5 | | | .10 | .08 | 12 | .10 | | |
| 6 | | | 63 | .05 | .16 | .16 | | |
| 7 | | | .08 | .09 | 14 | 14 | | |
| А | | | 17 | .09 | 160 | 15 | | ļ |
| Q. | | | .12 | .22 | 10 | .10 | | |
| 10 | | | .13 | .12 | 13 | 13 | | |
| 11 | | | 04 | 06 | .03 | .06 | | |
| 12 | | | -17 | .17 | .09 | 17 | | |
| 13 | - | | .10 | .10 | | .16 | | |
| 14 | | + | .15 | .15 | 13 | .13 | | |
| 15 | | | 80. | .04 | -10 | 17 | | |
| 16 | | | .09 | .10 | .02 | .03 | | |
| 17 | | | | .07 | 08 | .07 | | |
| 18 | | + | .10 | | | .00 | | |
| 19 | | | ,05 | .07 | 113 | 11 | | |
| 20 | | | ,12 | -14 | 115 | 14 | | |
| 21 | + | | 114 | .13 | :18 | .10 | | |
| 22 | | | .19 | 20 | 19 | .19 | | |
| 2). | | | .11 | -10 | .06 | OR | | |
| 25 | | | .14 | -16 | .13 | .11 | | |
| 26 | | + | .14 | .14 | 07 | .08 | | |
| 27 | | | 24 | 22 | .33 | .30 | | |
| 28 | | | .14 | .15 | .18 | 17 | | |
| 29 | | | | | | | | |
| 30 | | | | | | | | |
| 31 | | | | | | | | |
| TOT. | | | 326 | 3,37 | 3,91 | 3.27 | | |
| Mel. | | | | | | | | |

HTDROLOGIC DATA - EVERGLADES EXPERIMENT STATION HELLE GLADE, FLORIDA

| DATE | SOLAR | RADIATION | | PHEE WATER | EVAPORATION | | EVAPOTRAN | SPIRATION |
|-------|--------------|--------------|--------|------------|-------------|------------|------------|------------|
| MAY | NET R. | TOTAL R. | STD. (| | | TANKS | EVAPOTESNI | PIROMETERS |
| (MO.) | LANGLEY'S | GUNN-BELLANI | P2 | 19 | T7 (ALUM.) | TB (BLACK) | 71 | 72 |
| 1963 | | UNITE | (IN.) | (IN.) | (IN.) | (DI.) | (IN.) | (N.) |
| (IR.) | | | | /400.7 | (may) | (100.07) | (may) | (200 -) |
| () | | | 1 | 1.0 | 1.2 | | | |
| 1 | | | 16 | 118 | 16 | 15 | | |
| 2 | | | 10 | 113 | 1.5 | 14 | | |
| 3 | | | 15 | 113 | 14 | 15 | | |
| 11 | | | 121 | 20 | 117 | 18 | | |
| 5 | | | 122 | 23 | 111 | 16 | | |
| 6 | | | .18 | 19 | 19 | .16 | | |
| 7 | | | .24 | . 24 | .18 | .16 | | |
| Я | | | 121 | .23 | 16 | .15 | | |
| 9 | | | .25 | .25 | .19 | .19 | | |
| 10 | | | .25 | 25 | .17 | .17 | | |
| 11 | | | 27 | .26 | .23 | .24 | | |
| 12 | · | | 27 | 131 | 22 | 18 | | |
| 13 | | | .24 | .24 | .18 | .16 | | |
| 11. | | | .26 | . 24 | 121 | 21 | | |
| 15 | | | .20 | .20 | 1 41 | .20 | | |
| 16 | | - | .24 | . 23 | 1/9 | .21 | | |
| 17 | | | .25 | .28 | .24 | 20 | | |
| 18 | | | :21 | .27 | ,25 | .23 | | |
| 19 | | | .35 | . 04 | .13 | . 45 | | |
| 20 | | | .26 | .26 | .22 | .20 | | |
| 21 | | | .22 | 122 | .18 | .19 | | |
| 22 | | | .15 | .15 | . 14 | .14 | | |
| 23 | | | 116 | 16 | .12 | -11 | | |
| 2). | | | .19 | .18 | 1.6 | .16 | | |
| 25 | | | ,25 | .22 | .17 | .17 | | |
| 26 | | | :37 | . 24 | .17 | ,16 | | |
| 27 | | | | | .24 | .27 | | |
| 28 | | | | . 15 | .14 | .14 | | |
| 29 | | | .06 | .07 | .12 | ./2 | | |
| 30 | | | .21 | .13 | ,13 | .15 | | |
| 31 | L | | .04 | . 11 | .1.3 | .18 | | |
| TOT- | | | 6.49 | 6.31 | 5.42 | 5.4B | | |
| MPI . | | | | | | | | |

| DATE | SOLAR | RADIATION | | FREE WATER | EVAPORATION | | EVAPOTRAN | SPIRATION |
|-------|-----------|--------------|-------|------------|-------------|------------|------------|------------|
| UNE | NET R. | TOTAL R. | STD. | CLASS A | LAND | TANKS | EVAPOTRANS | PIROMETERS |
| (MO.) | LANGLEY'S | GUNN-BELLANI | PS. | P3 | T7 (ALUM.) | TB (BLACK) | 71 | 12 |
| 963 | | UNITS | (IN.) | (IN.) | (IN.) | (IN.) | (N.) | (IN.) |
| (YR.) | | | - | | 3, | 1 | 7,000 | 1 |
| (Tue) | | | 104 | Lan | 100 | . 19 | | |
| 1 | | | 124 | 27 | .23 | | | |
| 2 | | | .18 | .20 | .13 | ./3 | | |
| 3 | | | 2 | .23 | 20 | .19 | | |
| I. | | | .13 | .13 | .14 | .13 | | |
| 5 | | | .26 | .26 | .20 | .19 | | |
| 6 | | | .26 | .26 | 1.25 | .29 | | |
| 7 | | | 23 | .17 | .14 | .12 | | |
| А | | | 2.3 | . 21 | .15 | 15 | | |
| 0 | | <u> </u> | .17 | .17 | .18 | .18 | | |
| 10 | | | 25 | .23 | .13 | , 19 | | |
| 11 | | | .24 | .28 | .29 | .21 | | |
| 12 | | | 26 | .26 | 143 | .22 | | |
| 13 | | | .37 | .28 | .26 | .25 | | |
| 11. | | | - 1 | -11 | .11 | 11 | | |
| 15 | | - | .26 | .30 | .24 | .24 | | |
| 16 | | | .23 | .21 | .22 | .2/ | | |
| 17 | | | .15 | .14 | .14 | .19 | | |
| 18 | | | .29 | :30 | ,23 | .18 | | |
| 19 | | | .32 | .23 | -20 | .26 | | _ |
| 20 | | | .25 | - 275 | .38 | .18 | | |
| 21 | | I | .33 | .32 | ,25 | .25 | | |
| 22 | | | . 23 | .24 | .23 | .22 | | |
| 93 | | | . 23 | .23 | .19 | .19 | | |
| 21. | | | .15 | .15 | ,2 | 13 | | |
| 25 | | | , 25 | .27 | | .23 | | |
| 26 | | | .22 | .04 | .20 | 106 | | |
| 27 | | | .22 | .27 | .20 | .22 | | |
| 28 | | | .20 | . 23 | 118 | ,20 | | |
| 29 | | | .21 | .23 | ,20 | .19 | | |
| 30 | | | .18 | .31 | .17 | 17 | | |
| 31 | | | | | | | | |
| TOT. | | | 6.58 | 6.83 | 5.87 | 5.62 | | |
| Mi. | | | | | | | | |

HYDROLOGIC DATA - EVERGLADES EXPERIMENT STATION BELLE GLADE, FLORIDA

| DATE | SOLAR | RADIATION | | FREE WATER | EVAPORAT | MOIT | | | EVAPOTRAN | SPIRATION |
|-------|-----------|--------------|-------------------|------------|----------|------|-------|---------|------------|------------|
| SEPT | NET R. | TOTAL R. | STD. CL | | | LAND | TA NK | 8 | EVAPOTRANS | PIROMETERS |
| (MO.) | LANGLEY'S | GUNN-BELLANI | P2 | P3 | T7 (AI | | | (BLACK) | 71 | T2 |
| 963 | | UNITE | (IN.) | (IN.) | (IN | | | (DI.) | (IN.) | (IN.) |
| (YR.) | | | , | /2007 | (44 | | + | Carrel | 1 | 1 |
| (IM+) | | | tion a | | | | | | | |
| . 1 | | | :22 | | 20 | | - | .20 | | |
| 2 | | | .08 | | 110 | | - | . 11 | | |
| 3 | | | .16 | | 115 | 4 | - | 14 | | |
| J. | | | .21 | | .1" | 7 | - | .16 | | |
| 5 | | | .78 .24 .16 | | .17 | | - | .15 | | |
| 6 | | | .24 | | . 20 | | - | 17 | | |
| 7 | | | .18 | | .15 | | + | 16 | | |
| А | | | .19 | | . 13 | 7 | - | 18 | | |
| .0 | | | .21 | | 117 | 7 | - | .19 | | |
| 10 | | | .23 | | . 2 | - | - | 20 | | |
| 11 | | | .27 | | , 2 | 3 | - | 22 | | |
| 12 | | | .72 | | 2 | _ | - | 27 | | |
| 15 | | | .27 | | , 20 | | - | .21 | | |
| 71. | | | .22 | | .17 | | | 19 | | |
| 15 | | | .15 | | .16 | | - | 10 | | |
| 16 | | | .18 | | . 19 | 7 | - | 2.3 | | |
| 17 | | | .19 | | .15 | 2 | - | 21 | | |
| 18 | | | . 11 | | . 12 | | | 13 | | |
| 19 | | | .09 | | .10 |) | | 11 | | |
| 20 | | | 02 | | .09 | è | | .08 | | |
| 21 | | | .04 | | .07 | 7 | | 38 | | |
| 22 | | | .1.3 | | .05 | | | 27 | | |
| 23 | | | .19 | | .16 | | | 17 | | |
| 21, | | | .05 | | .09 | 1 | - | 07 | | |
| 25 | | | .13 | | .16 | | - | 1.5 | | |
| 26 | | | .05 | | . 30 | 7 | | 07 | | |
| 27 | | | | | .14 | | - | 15 | | |
| 28 | | | .20 | | .13 | | | 12 | | |
| 20 | | | .18 | | . 1.5 | | | 17 | | |
| 30 | | | . 27 | | .2" | 7 | 1 | 24 | | |
| 51 | | | | | | | | | | |
| TOT. | | | 5.09 | | 4.90 |) | 9. | 60 | | |
| 101. | | | | | | | | | | |

| DATE | SOLAR | RADIATION | | FREE WATER | EVAPO: | RATION | | | EVAPOTRAN | SPIRATION |
|-------|-------------|--|---------|------------|--------|---------|---------|---------|-----------|-------------|
| OCT | NET R. | TOTAL R. | STD. CL | ASS A | | LAND | TANK | S | | PIROME TERS |
| (MO.) | LANCLEY'S | GUNN-BELLANI | P2 | P3 | T7 | (ALUM.) | T8 | (BLACK) | 71 | 72 |
| 1963 | | UNITE | (IN+) | (IN.) | - | (IN.) | | (IN+) | (IN.) | (IN.) |
| (YR.) | | | | ,, | - | | - | 1-0.4 | (-210) | (2012) |
| | | | 101 | | 7 | 20 | | 2.1 | | |
| 2 | | | 12 | | - | 29 | | ,21 | | |
| 3 | | + | 14 | | - | 14 | + | 15 | | |
| Ji | | + | 19 | | | 26 | + | 17 | | |
| 5 | | | .23 | | - | 16 | + | .27 | | |
| 6 | | 1 | .25 | | - | 25 | + | 24 | | |
| 7 | | ——— | . 22 | | | 22 | + | .23 | | |
| 8 | | | .20 | | | 18 | | 19 | | |
| 0 | | | .20 | | | 22 | | 22 | | |
| 10 | | | 13 | | | 12 | | 12 | | |
| 11 | | | .07 | | | 10 | | 17 | | |
| 12 | | | ,14 | | | 13 | | -13 | | |
| 13 | | | .16 | | | 17 | | 118 | | |
| 11. | | | 120 | | | 18 | | .15 | | |
| 15 | | | .13 | | | 16 | | 16 | | |
| 16 | | | .18 | | | 16 | | 16 | | |
| 17 | | | .12 | | | 11 | | .72 | | |
| 18 | | | .15 | | - 4 | 15 | | . 13 | | |
| 19 | | | .18 | | | 17 | | 20 | | |
| 20 | | | .16 | | - 1 | 15 | | 15 | | |
| 21 | | | .17 | | | 18 | | 15 | | |
| 22 | | | .19 | | | 18 | | 19 | | |
| 23 | | | .15 | | | 17 | | 7.7 | | |
| 2/1 | | | .23 | | | 16 | - | 16 | | |
| 25 | | | .13 | | | 12 | \perp | .12 | | |
| 26 | | | .12 | | | 09 | | .10 | | |
| 27 | | - | .18 | | | 11 | | 12 | | |
| 28 | | | 16 | | 19 | 15 | | 1.1 | | |
| 29 | | 1 | .14 | | | 13 | | 13 | | |
| 30 | | | 125 | | | 28 | - | 25 | | |
| 31 | | | .18 | | - | 20 | | .20 | | |
| TOT. | | | 5.36 | | 5. | 16 | 1 | 26 | | |

PART VI

Daily Mean Ground Water Stage
Upper Taylor Creek Watershed
(W-2), (W-3)

MEAN DAILY GROUND-WATER STAGE (WATERSHED AREAS) (FEET BELOW GRD. SURF.)

| DATE | | | UPPE | R TAYLO | R CREE | 2 | | | INDIA | N RIVER | FARMS | | | MONR | EVE RAN | CH | |
|---------|------|-------|------|---------|--------|------|------|---|-------|---------|-------|---|------|------|---------|----|---|
| OCT | 1 | 2 | 3 | 1 | 5 | 6 | 7 | 1 | 2 | 3 | 14 | 5 | 1 | 2 | 3 | 4 | 5 |
| (MO)2 | | | | | | | | | (7) | | 2 | | | | | | |
| (YR) | | | | | | | | | AYG | | AYG | | Line | | 1.me | | |
| (2.11) | | | | | | | | | | | W-3 | | A | | B | | |
| 1 | 1.15 | 086 | 229 | 229 | 163 | 204 | 093 | | 1.60 | | 100 | | 1.89 | | 0.31 | | |
| 2 | 0.74 | 0.96 | 106 | 224 | 002 | 200 | 101 | | 115 | | 0.84 | | 1.96 | | 0.25 | | |
| 3 | 096 | 092 | 1.00 | 229 | 0.02 | 194 | 101 | | 1.16 | | 0.94 | | 7.33 | | 0.35 | | |
| . 4 | 084 | 643 | 074 | 218 | 0.01 | 1.43 | 0 86 | | 093 | | 064 | | 0.19 | | 0.45 | | |
| 5 | 1.19 | 094 | 087 | 23 | 005 | 172 | 093 | | 108 | | 082 | | 0.72 | | 0.64 | | |
| 6 | 199 | 0 99 | 1.18 | 249 | 0.32 | 204 | 103 | | 1.29 | | 099 | | 1.29 | | 0,82 | | |
| 7 | 166 | 059 | 159 | 257 | 109 | 2.25 | 1.13 | | 1 5.5 | | 112 | | 1.62 | | 0.96 | | |
| 8 | 1.70 | 0.74 | 1.93 | 263 | 1.72 | 235 | 122 | | 176 | | 122 | | 1.79 | | 1.05 | | |
| 9 | 167 | 0.91 | 216 | 267 | 204 | 242 | 130 | | 88 | | 129 | | 1.89 | | 1./3 | | |
| 10 | 172 | 1.08 | 234 | 2.73 | 225 | 2 45 | 36 | | 199 | | 140 | | 1.99 | | 1.42 | | |
| 1.2 | 190 | 1.40 | 252 | 2 79 | 242 | 2.55 | 142 | | 2:2 | | 156 | | 2.11 | | 1.72 | | |
| 13 | 197 | 154 | 272 | 2.89 | 2.51 | 2.66 | 154 | | 226 | | 1.65 | | 2,19 | | 2.18 | | |
| 1/1 | 196 | 165 | 279 | 2.93 | 2.63 | 271 | 158 | | 232 | | 180 | | 2,29 | | 2.42 | | |
| 15 | 196 | 177 | 287 | 300 | 2.67 | 2.77 | 164 | | 238 | | 186 | | 241 | | 2,40 | | |
| 15 | 202 | 187 | 294 | 305 | 2.73 | 2.84 | 169 | _ | 2.45 | | 195 | | 2.41 | | 2.51 | | |
| 17 | 177 | 194 | 291 | 309 | 2,69 | 2.84 | 1.45 | _ | 242 | | 186 | | 2.34 | | 2.32 | | |
| 1.8 | 162 | 199 | 2 75 | 314 | 2.43 | 2.74 | 1.49 | | 2.34 | | 180 | | 2.37 | | 2.17 | | |
| 19 | 195 | 205 | 293 | 318 | 279 | 2.88 | 157 | | 248 | | 2.00 | | 2.48 | | 2,42 | | |
| 20 | 209 | 212 | 307 | 222 | 287 | 297 | 168 | | 2.57 | | 210 | | 2.55 | | 2.62 | | |
| 21 | 211 | 2.18 | 314 | 325 | 272 | 302 | 177 | | 2.63 | | 2.15 | | 2.58 | | 2.71 | | |
| 22 | 201 | 2.24 | 3 18 | 326 | 293 | 305 | 1.83 | | 264 | | 2.12 | | 2.60 | | 2.58 | | |
| 23 | 188 | 227 | 312 | 329 | 283 | 297 | 175 | | 2.59 | | 208 | | 2.56 | | 226 | | |
| 24 | 2.15 | 2 3 3 | 321 | 3.34 | 297 | 305 | 1.86 | | 270 | | 2 24 | | 2.64 | | 2.48 | | |
| 25 | 225 | 237 | 328 | 3.36 | 304 | 31] | 197 | | 2.78 | | 232 | | 2.7/ | | 2.69 | | |
| 26 | 2 29 | 296 | 334 | 342 | 3.11 | 317 | 204 | | 283 | | 238 | | 2.73 | | 2.31 | | |
| 27 | 232 | 252 | 3 40 | 347 | 3 17 | 324 | 2.13 | | 2 69 | | 2-12 | | 2.76 | | 2.88 | | |
| | 233 | 257 | 345 | 35/ | 3 22 | 328 | 220 | | 294 | | 245 | | 2.81 | | 2.92 | | |
| 30 | 235 | 262 | 350 | 3.55 | 3 2 3 | 333 | 2.25 | | 297 | | 298 | | 2.86 | | 2.97 | | |
| 31 | 233 | 61.6 | 352 | 357 | | 336 | 2.28 | | 3.00 | | 2.50 | | 2.88 | | 2.99 | | |
| MEAN | 221 | 2.71 | 3.53 | 359 | | 339 | 229 | | 300 | - | 246 | | 2.88 | | 2,95 | | |
| :Time N | 182 | 1.68 | 258 | 297 | 225 | 269 | 158 | | 2.22 | | 175 | | | | | | |

| TATE | | | UPPE | RTAYLO | R CREE | K | | | INDIA | RIVE | RFARMS | | T | MON | REVE RANG | CH | |
|-------|---------|-------|-------|--------|--------|-------|-------|----------|-------|------|--------|---|-------|-----|-----------|----|----------|
| NOV | 1 | 2 | 3 | 14 | 5 | 6 | 7 | 1 | 2 | 3 | 14 | 5 | 1 | 2 | 3 | 4 | 5 |
| (Mg)2 | | | | | | | | | (7) | | 2) | | | | | | |
| (YR) | - | | 1 | | | 1 | | | A 1G | | 1.19 | | Line | | 6,00 | | |
| (III) | | | | | | | | | W-2 | | W-3 | | A | | 12 | | |
| 1 | 209 | 271 | 3.55 | 2/2 | 2 25 | 342 | 229 | | 3.00 | | 242 | | 200 | | | | |
| 2 | 230 | 2.75 | | 3.66 | 3.34 | 395 | 2.31 | - | 3.06 | | 2.54 | | 2.89 | | 2.95 | | |
| 3 | 233 | 28/ | 361 | | 3.35 | 3.96 | 2 32 | | 30.5 | | 2.56 | | 2.92 | | 2.76 | | |
| 4 | 226 | | 365 | 37/ | 339 | 3 99 | 235 | | A I D | | 255 | | 2.95 | | 3.5/ | | - |
| E. | 243 | 287 | 370 | 3.76 | 344 | 3 54 | 2.41 | | 316 | | 245 | | 3.00 | | 3.07 | | <u> </u> |
| 6 | 250 | 289 | 3.73 | 3.80 | 348 | 358 | 2.44 | | 326 | | 270 | - | 3.02 | | 3./2 | | |
| 7 | 250 | 292 | 3.77 | 3.82 | 351 | 3.6/ | 2.49 | | 323 | | 271 | | 7.07 | | 3.15 | ~ | |
| 5 | 212 | 292 | 775 | 3.83 | 350 | 361 | 2.40 | | 316 | | 2.52 | | 2.90 | | 2,92 | | |
| 9 | 041 | 131 | 255 | 3/3 | 212 | 253 | 105 | | 187 | | 0.36 | | 1.20 | | 0.57 | | |
| 4.0 | 057 | 078 | 218 | 287 | | 12.15 | 0.94 | | 163 | | 538 | | 11.10 | | 0.51 | | |
| 14 | 106 | 082 | 236 | 2.90 | 2.16 | 2.27 | 11.12 | | 1181 | | 094 | | 7.44 | | 0.77 | | |
| 10 | 131 | 10.89 | 247 | 2.92 | 226 | 238 | 11.20 | | 192 | | 110 | | 1.63 | | 0.78 | | |
| 13 | 133 | 0.94 | 252 | 2.97 | 232 | 2.44 | 123 | | 196 | | 114 | | 1.79 | | 1.11 | | |
| 14 | 154 | 103 | 266 | 304 | 242 | 2.53 | 129 | | 207 | | 128 | | 1.91 | | 1.40 | | |
| 15 | 1.64 | 1.15 | 277 | 309 | 25/ | 2.62 | 135 | | 216 | | 190 | | 2.02 | | 1.6 | | |
| 16 | 166 | 127 | 2.84 | 315 | 2 59 | 2.70 | 1 37 | | 2 23 | | 1.96 | | 2.03 | | 190 | | |
| 17 | 172 | 137 | 29/ | 3.20 | 266 | 276 | 142 | | 229 | | 154 | | 2.15 | | 1.7.1 | | |
| 18 | 176 | 196 | 298 | 325 | 274 | 284 | 195 | | 2.35 | | 161 | | 2,21 | | 2 7 | | |
| 19 | 177 | 1.58 | 305 | 3 30 | 282 | 2.90 | 156 | | 2.42 | | 168 | | 2.2 - | | 2.10 | | |
| 20 | 176 | 1.65 | 3.08 | 3 3 3 | 290 | 294 | 152 | | 245 | | 1.70 | | 2.27 | | 2.17 | | |
| 21 | 177 | 177 | 3 11 | 3 37 | 295 | 2 77 | 153 | | 2-19 | | 177 | | 2.29 | | 2.14 | | |
| 22 | 1 11 | 158 | 3 14 | 341 | 301 | = 78 | 153 | | 2.39 | | 1.34 | | 1.65 | | 2.09 | | |
| 23 | 1.50 | 159 | 3 23 | 397 | 3.09 | 305 | 1.65 | | 251 | | 1.54 | | 1.51 | | 2.35 | | |
| 24 | 169 | 168 | 328 | 351 | 315 | 311 | 169 | <u> </u> | 2.59 | | 168 | | 2.09 | | 2.40 | | |
| 25 | 170 | 176 | 330 | 354 | 3.19 | 314 | 1.71 | | 262 | | 173 | | 2.20 | | 2.42 | | |
| 26 | 177 | 184 | 3 3 3 | 358 | 3.18 | 317 | 1.73 | | 266 | | 1.80 | | 2.28 | | 2.49 | | |
| 27 | 195 | 1.91 | 3.53 | 360 | 321 | 3.22 | 1.80 | | 214 | | 1.93 | | 2.37 | | 2.53 | | |
| 28 | 191 | 198 | 358 | 3 63 | 324 | 3 25 | 183 | | 277 | | 194 | | 2.41 | | 2.59 | | |
| 29 | 126 | 204 | 3.59 | 3 45 | 327 | 3 27 | 183 | | 279 | | 195 | | 2.42 | | 2.57 | | |
| 30 | 18.2 | 216 | 3.61 | 368 | 327 | 327 | 159 | | 280 | | 1.96 | | 2.42 | | 2.54 | | |
| 31 | 1 1 1 1 | | 0.0 | 0.10 | 1.00 | | 1.00 | | - | | | | | | | | |
| MEAN | 174 | 134 | 3.18 | 342 | :74 | 3.02 | 172 | | 2.55 | | 1.79 | | | | | | |

MEAN DAILY GROUND-WATER STAGE (WATERSHED AREAS) (FEST BELOW GRD. SURF.)

| DATE | | | прред | TAYLO | R CREEK | | | | THEFT | -ASPEN | PAPAS | | | MONR | EYE RAN | CH . | |
|--------------|------|-------|---------|-------|---------|------|-------------|----------|-------------|--------|------------------|---|------|------|---------|------|---|
| Feb | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 |
| (MO) (YR) | | | | | | | | | Avo. W-2 | | 2 Avg. W-3 | | Lime | | Line | | |
| 1 | 2.65 | 3.01 | 4.27 | 4 28 | 4.02 | 3.85 | 3.00 | | 3.58 | | 2.83 | | 2,92 | | 2,22 | | |
| 2 | | 3.02 | | | | | 3.03 | | 3.61 | | 2.25 | | 2,93 | | 2.33 | | |
| 3 | | 3.03 | | | | | 2.77 | | 3.62 | | 2.87 | | 2.95 | | 2.39 | | |
| 4 | | 3.06 | | | | 3.94 | 2.46 | | 3.51 | | 2.78 | | 2,85 | | 1.61 | | |
| 5 | | 3.06 | | | 3.88 | 3.85 | 2.18 | | 3.40 | | 2.69 | | 2.78 | | 146 | | |
| 6 | 2.40 | 3.07 | 4.19 | 4.33 | 3.84 | 3.78 | 2.23 | | 3.41 | | 2.73 | | 2.82 | | 160 | | |
| 7 | 2.55 | 3.07 | 4.20 | 4.34 | 3.84 | 3,77 | 2.30 | | 3.44 | | 2.8/ | | 2.86 | | 1.33 | | |
| 8 | 2.72 | 3.08 | 4.26 | 4.34 | 3.89 | 3.78 | 2.41 | | 3.50 | | 2.90 | | 2.93 | | 2.11 | | |
| 9 | 2.79 | 3.09 | 4.36 | 4.35 | 3.97 | 3.84 | 2.53 | | 3.56 | | 2.94 | | 2.98 | | 2,29 | | |
| 10 | 2.81 | 3.10 | 4.37 | 4.36 | 4.03 | | 2.63 | | 3.60 | | 2.95 | | 3.03 | | 2.34 | | |
| 11 | 2.82 | 3.12 | | 4.36 | 4.07 | 3.91 | 2.70 | | 3,62 | | 2.97 | | 3.04 | | 2.39 | | |
| 12 | 1.87 | 2.96 | 4.23 | 4.36 | 3.99 | 3.88 | 2 42 | | 3.37 | | 2.41 | | 2.60 | | 1.23 | | |
| 13 | 1.52 | 2.76 | | | | | 2.16 | | 3.17 | | 2.14 | | 2.36 | | 1.10 | | |
| 1)4 | 2.06 | 2.75 | 3.99 | | 3.71 | 3.64 | 2.29 | | 3.25 | | 2.40 | | 2,50 | | 1.41 | | |
| 15 | 2.22 | 2.75 | 4.04 | 4.33 | 3.73 | | 2.39 | | 3.30 | | 2.48 | | 2.60 | | 1.67 | | |
| 16 | 1.82 | | 4.05 | | 3.78 | | 2.37 | | 3,25 | | 2.28 | | 2.51 | | 1.20 | | |
| 17 | . 17 | | 3.83 | | 3.55 | 3.49 | 1.87 | | 2,94 | | 1.75 | | 7.01 | | 0.45 | | |
| 18 | 1.60 | 2.50 | 3.76 | 4.22 | 3.45 | | 1.96 | | 2.98 | | 2.05 | | 2.16 | | 0.80 | | |
| 19 | 1.07 | | | 4.06 | 3.35 | | 1.30 | | 2.75 | | 1.67 | | 1.84 | | 0.46 | | |
| 20 | .97 | 1.95 | 3.02 | 3.59 | 3.02 | | 1.52 | <u> </u> | 2.42 | - | 1.44 | | 1.93 | | 0.53 | | |
| 21 | 1.50 | 1.96 | 3.03 | 3.41 | 3.04 | 2.86 | 1.64 | | 2,49 | - | 1.87 | | 2.12 | - | 0.80 | | |
| 22 | 1.76 | 1.18 | 3.10 | 3.33 | 3.1/ | 2.92 | 1.74 | _ | 2.65 | | 1.99 | | 2.29 | | 1.04 | | |
| 23 | 1.77 | 2.01 | 3./7 | 3.38 | 3.18 | 2.99 | 1.87 | | | | 1,96 | | 2.37 | | 1.15 | | |
| 214 | 1.88 | 2.01 | 3./7 | 3.38 | 3.24 | | 1 1 100 100 | | 2.66 | | 1,95 | | 2.40 | | 1,40 | | |
| 25 26 | 1.83 | 2.03 | 3. /5 | 3.34 | 3.26 | | 1.94 | | 2.67 | | 1.50 | - | 1.78 | | 5.8 | | |
| 27 | 1.33 | 1.67 | = | 2.66 | 2.86 | | | | 1.46 | | 7.66 | | 0.96 | | 0.2/ | | |
| 28 | .48 | | = | | | | | | 1.59 | | 0.87 | | 1.29 | | 0.39 | | |
| 29 | 88 | .86 | - | 2.63 | 4.14 | 7.78 | 1.05 | | 1127 | | 9.87 | | 1.2/ | | V. 3/ | | |
| 30 | | - | - | | - | - | - | _ | - | _ | | | | | | | |
| 31 | + | - | _ | | | | | | | | | | | | | | |
| MEaN | 105 | 2.51 | 47 00 | 291 | 3 5 2 | 3.41 | 2.14 | | 3.02 | | 2.23 | | 2.41 | | 1.34 | | |
| LIGHTA | 1.70 | 12.31 | DF 3,00 | 7.76 | 2.23 | 2.71 | 411 | | 1,02 | | , | | 1 , | | | | |

| DATE | | | UPPE | R TAYLO | R CREEK | (| | | INDIA | N RIVER | FARMS | | | MONR | EVE RANG | TH. | |
|--------|------|------|------|---------|---------|------|------|-----|-------|---------|-------|---|------|------|-------------|-------|---|
| Mar. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | lı lı | 5 |
| | | | | | | | | | 1 | | (2) | | | | | | |
| (MO) = | | | | i i | i | | | | | | | | Line | | 1 | | |
| (YR) | | i i | | | | | | 1 | Aug. | | Aug. | | A | | Line | | |
| | ,,, | _ | 250 | _ , , | | | | | M-3 | | W-3 | | | | | | |
| 1 2 | 1.16 | 90 | _ | 2.66 | | 2.09 | | 180 | 1.69 | | 1.03 | | 1.47 | | 0.56 | | |
| 3 | 183 | .9/ | | 2.60 | 2.10 | 1.97 | .97 | | 1.57 | | 4.87 | | 1.21 | | 0.39 | | |
| | 1,25 | .91 | | 261 | 2.19 | 2.06 | /.07 | * | 1.68 | | 1.08 | | 1.53 | | 0.61 | | |
| 4 | 1.39 | .96 | 227 | 271 | 2.30 | 2.17 | 1.19 | 3/4 | 1.75 | | 1.17 | | 1.69 | | 0.75 | | |
| 6 | 164 | 106 | | 271 | - | 2 34 | 132 | | 1.96 | | 122 | | 178 | | 087 | | |
| 7 | | | 2 39 | | 248 | | 1.18 | | 197 | | 135 | | 195 | | 1.02 | | |
| 8 | 160 | 116 | 252 | 281 | | | 127 | | | | | | 205 | | 1.12 | | |
| 9 | 1.75 | 142 | 258 | 290 | 2 52 | 237 | 1.35 | | 210 | | 1.60 | | 218 | | 121 | | |
| 10 | 099 | 146 | 238 | 290 | 267 | 2 37 | 112 | | 216 | - | 158 | | 192 | | 1.31 | | |
| 11 | 1.53 | 151 | 255 | 287 | 276 | 296 | 127 | | 213 | | 1.52 | | 208 | | 144 | | |
| 12 | 182 | 1.54 | 2 75 | 294 | 2847 | 257 | 140 | | 2.28 | | 170 | | 223 | | 166 | _ | |
| 13 | 173 | 160 | 280 | 299 | 296 | 268 | 149 | | 2 33 | | 1 68 | - | 231 | | 190 | | |
| 1/i | 206 | 169 | 290 | 3 64 | | 2 76 | 1.57 | | 244 | | 168 | | 2.40 | | 207 | | |
| 15 | 217 | 74 | 299 | 310 | 311 | 285 | 1.65 | | 251 | | 196 | | 297 | | 216 | | |
| 16 | 2 15 | 180 | 307 | 3 16 | 316 | 293 | 1.73 | | 257 | | 199 | | 252 | | 2.25 | | |
| 17 | 204 | 1.85 | 311 | 320 | 3 2 2 | 299 | 181 | | 2 60 | | 194 | | 247 | | 2 33 | | |
| 18 | 2.32 | 190 | 317 | 328 | 3.28 | 305 | 1.88 | | 270 | | 211 | | = 57 | | 2 42 | | |
| 19 | 244 | 195 | 325 | 333 | 335 | 313 | 196 | | 277 | | 2 20 | | 266 | | 2.51 | | |
| 20 | 250 | 202 | 3 32 | 337 | 340 | 317 | 2 64 | | 2.83 | | 2.26 | | 274 | | 2 45 | | |
| 21 | 261 | 209 | 3-13 | 3 43 | 347 | 327 | 216 | إ | 292 | | 2 35 | | 2.83 | | 280 | | |
| 22 | 2 49 | 219 | 3.55 | 348 | 353 | 3 34 | 2 29 | | 301 | | 244 | | 240 | | 291 | | |
| 23 | 2 75 | 2 25 | 360 | 3 53 | 3.58 | 391 | 237 | | 3.07 | | 250 | | 276 | | 278 | | |
| 24 | 280 | 232 | 365 | 358 | 3 62 | 396 | 2 94 | | 3.12 | | 256 | | 301 | | 304 | | |
| 25 | 280 | 240 | 3 70 | 343 | 3.67 | 350 | 235 | | 3 15 | | 260 | | 304 | | 310 | | |
| 26 | 283 | 2-76 | 3 76 | 365 | 373 | 355 | 214 | | 316 | | 2.64 | | 300 | | 314 | | |
| 27 | 285 | 252 | 3 86 | 3 48 | 3 76 | 365 | 231 | | 322 | | 268 | | 309 | | 320 | | |
| 28 | 2 78 | 2.57 | 397 | 3 7.2 | 381 | 3 65 | 230 | | 326 | | 268 | | 311 | | 3.23 | | |
| 29 | 288 | 263 | 404 | 3.75 | 386 | 369 | 2.28 | | 330 | | 2.76 | | 3 15 | | 3 2/ | | |
| 30 | 2.76 | 2 17 | 9.09 | 3.78 | 3 90 | 372 | 2.37 | | 3.33 | | 276 | | 313 | | 329 | | |
| 31 | 228 | 272 | 4.10 | 3 80 | 393 | 374 | 2 20 | | 3.25 | | 250 | | 295 | | 3 22 | | |
| MEAN | 19 | 179 | 3.19 | 319 | 3.10 | 2.90 | 174 | | 254 | | 194 | | 294 | | 2.09 | | |

MEAN DAILY GROUND-WATER STACE (WATERSHED AREAS) (FEET BELOW CRD. SURF.)

| DATE | | | прркв | TAYLO | R CREEK | ζ | | | SPICE | REVIEW | THE ST | | | 36368 | EVE RAN | GH | |
|----------|-------|------|-------|-------|---------|-------|-------|---|-------------|--------|--------|---|------|-------|---------|----|---|
| JUNE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 1 | 2 | 3 | h | 5 | 1 | 2 | 3 | h | 5 |
| | | | | | | | | | AYG | | AVG | | LIME | | LINE | | |
| 1423 | | | | | | | | | 3 | | | | "A" | | "B" | | |
| (YR) | | | | | | | | | W-2 | | 2 W-3 | | ~ | | 9 | | |
| 1 | 250 | 291 | 5.16 | 326 | 3.81 | 519 | 350 | | 3.76 | | 270 | | 272 | | 3 19 | | |
| 2 | 262 | 792 | 508 | 328 | 384 | | 359 | | 3 79 | | 2.77 | | 7.84 | | 3.23 | | |
| 3 | 272 | 295 | 5.04 | 334 | 392 | 5.21 | 3.49 | | 3 84 | | 2.34 | | 2.80 | | 323 | | |
| 4 | 257 | 265 | 495 | 3/3 | 381 | 5.18 | 3 74 | | 3 72 | | 2.61 | | 1-93 | | 3 2 2 | | |
| 5 | 212 | 200 | 935 | 254 | 297 | 485 | 3.77 | | 323 | | 206 | | 097 | | 312 | | |
| 6 | 201 | 1.54 | 3.82 | 2.12 | 2.56 | 9 5 3 | 383 | | 291 | | 178 | | 108 | | 3/2 | | |
| 7 | 23/ | 157 | 3 75 | 225 | 269 | 993 | 3.90 | | 298 | | 1.94 | | 1.53 | | 3.7 | | |
| 8 | 298 | 163 | 3.77 | 219 | 286 | 990 | 393 | | 304 | | 206 | | 1.84 | | 327 | | |
| .9 | 251 | 172 | 3.78 | 2 02 | 290 | 4 38 | 3.88 | | 3.02 | | 2.12 | | 1.64 | | 3.33 | | |
| 10 | 265 | 1.80 | 3.68 | 213 | 271 | 4 38 | 395 | | 304 | | 222 | | 168 | | 337 | | |
| 11 | 278 | 192 | 3 76 | 2 24 | 311 | 4 39 | 396 | | 315 | | 235 | | 1.96 | | 345 | | |
| 13 | 2 80 | 2.03 | 397 | 251 | 324 | 4 26 | 9 00 | | 326 | | 2.42 | | 209 | | 3 2 7 | | |
| 14 | 290 | 211 | 908 | 253 | 3 33 | 421 | 4.03 | | 3.37 | | 250 | | 2.32 | | 3.32 | | |
| 15 | 286 | 2 19 | 419 | 265 | - 97 | 4 21 | 407 | | 337 | | 2.52 | | 2.12 | | 3.32 | | |
| 16 | 2 25 | 2.22 | 921 | 274 | 395 | 916 | 900 | | 3 29 | | 2.23 | | 1.30 | | 2.96 | | |
| 17 18 | 7 3 3 | 208 | 376 | 258 | 3.44 | 9 07 | 9 02 | | 304 | | 170 | - | 1.30 | | 295 | | |
| | 172 | 193 | 334 | 256 | 3 35 | 402 | 908 | | 300 | | 1.82 | | 1-74 | | 307 | | |
| 19 | 204 | 196 | 3.39 | 27/ | 346 | 902 | 914 | | 3 10 | | 200 | | 203 | | 323 | | |
| 20 | 237 | 203 | 352 | 285 | 3.57 | 907 | 420 | | 323 | | 2 20 | | 2.27 | | 338 | | |
| 21 | 6.03 | 210 | 3 65 | 296 | 3.67 | 4 04 | 9 25 | | 337 | | 232 | | 246 | | 3 5 3 | | |
| 22 | 265 | 220 | 3 77 | 30% | 3 76 | 4 23 | 4 24 | | 341 | | 2.42 | | 260 | | 3 4 3 | | |
| 23 2h | 2.74 | 228 | 3 87 | 3 12 | 383 | 431 | 4 3.3 | | 350 | | 251 | | 2.7/ | | 3 73 | | |
| 25 | 2.83 | 2 37 | 3.88 | 3 7 | 390 | 990 | 9 3.5 | | 356 | | 2.60 | | 2-77 | | 3.77 | | |
| 26 | 288 | 296 | 398 | 319 | 388 | 9 55 | 937 | | 3,42 358 | | 2.67 | | 278 | | 345 | | |
| 27 | 2 96 | 2.93 | 3.76 | 299 | 293 | 467 | 4 3.4 | | 7 35 | | 2.45 | | 2.20 | | 291 | | |
| 28 | 159 | 190 | 321 | 234 | 218 | 4.64 | 4 34 | | 2 28 | | 1-75 | | 1.55 | | 24. | | |
| 29 | 1.10 | 152 | 272 | 197 | 207 | 966 | 4 34 | | 262 | | 131 | | 153 | | 247 | | |
| 30 | 156 | 1.55 | 281 | 214 | 216 | 4 (8 | 9 33 | | 2.75 | | 156 | | 191 | | 23/ | | |
| 31. | | | | | | | | | | | | | | | | | |
| MEAN | 238 | 212 | 341 | 2.67 | 3=4 | 447 | 105 | | 3 26 | | 2 25 | | 2.04 | | 320 | | |

| DATE | I | | meen | TAYLO | R CREEK | (| | | TABLE | Person | PARKS | | | MAND | EVE RAN | CH | |
|----------------|-------|--------------|-------|---------------------------------|------------|---|-------------------|---|------------------------------------|--------|-------------------|---|-------------------|------|------------|-----|---|
| JULY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 1 | 2 | 3 | 4 | 3 | 1 | 2 | 3 | L I | 5 |
| (MO) 3 (YR) | | | | <u>-</u> | | | | | A45 11-2 | | AV6 2 v(-3 | | LINE A | | LIME B" | | |
| 1 2 | 200 | 160 | 295 | 233 | 196 | 4.70 | 434 | | 2.98 | | 180 | | 2.21 | | 199 | | |
| 3 | 251 | 176 | 324 | 2.60 | 296 | 9 73 | 947 | | 3.1/ | | 2.14 | | 2.98 | | 2.32 | | |
| 5 | 253 | 187 | 3 96 | 273 | 240 | 4 76 | 495 | | 320 | | 2.20 | | 2.62 | | 261 | | |
| - 5 | 12 45 | 208 | 3.54 | 296 | | | 455 458 461 | | 3.21 334 | | 226 | | 290 | | 1 7 | | |
| 5 | 2 72 | 218 | 3 69 | 304 | 317 | 992 | 961 | | 345 | | 291 256 | | 298 303 | | 312 | | - |
| 7 | 276 | 2.37 2.52 | 385 | 3 15 3 2 1 3 1 C 2 4 8 | 7373737375 | 9 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 964 | | 355 | | 256 | | 3.07 | | 3 2 7 | | |
| <u> </u> | 2 84 | 260 | 393 | 3 27 | 3 43 | 500 | 7 65 | - | 3 <u>65</u> 3 <u>55</u> 3 38 | | 2 68 | | 307 312 298 | | 3 3 / | | |
| 13 | | 262 | 903 | 2 48 | 3.48 | 5 06 | 9.70 | | 338 | | 292 186 204 | | 267 | | 324 | | |
| 1.74 | 1.85 | 264 | 4 10 | 291 | 153 | 5 11 | 9 65 | | 354 | | 225 | | 276 | | 2 15 | | |
| 15 16 | 2 18 | 267 | 415 | 3 05 | 357 | 517 | 168 | | 363 | | 2.42 | | 300 | | 317 | | |
| 17 | 150 | 270 | 9 27 | 278 | 3.91 | 5.12 | 9 63 | | 353 | | 2.10 | | 300 | | 3 /5 | | |
| 18 | 080 | 190 | 923 | 253 | 2.68 | 998 | 902 | | 2.9 4 | | 110 | | 160 | | 227 | | |
| 19 20 | 158 | 131 | 935 | 269 | 230 | 9.58 4.63 | 900 | | 300 | | 195 | | 179 | | 224 | | - |
| 21 | 221 | 139 | 941 | 301 | 2 72 | 483 | - 연 기상 | | 323 | | 180 | | 2.22 | | 2 75 | | |
| 22 | 218 | 148 | 950 | 3 12. | 292 | 487 | 923 | | 332 338 | | 188 | | 2.36 | | 235 | | |
| 214 | 235 | 164 | 4.55 | 3.23 | 319 | 975 | -7.30 | | 3.46 | | 200 | | 248 | | (3 5.5) | | |
| 25 26 | 233 | 1.66 | 962 | 332 | 330 | 505 | 9 39 | | 350 | | 1.48 | | 2.59 278 | | 3 37 | | |
| 27 | 191 | 185 | 074 | 341 | 339 | 5.19 | 455 | | 3 58 | | 185 | | 2 80 | | 3 (3) | | |
| 28 | 075 | 205 | 978 | 345 | 347 | 5 22 | 4.67 | | 3.57 348 | | 1.75 | | 288 | | 3 50 | | |
| 30 | 154 | 215 | -7 65 | 352 | 360 | 5 26 | 9 72 | | 3 5 3 | | 1.84 | | 298 | | 3 | | |
| 31 MEAN | 1.96 | 225 | 4.11 | 356 | 3 66 | 979 | 4 76 | | 3 7 <i>5</i> 3 3 7 | | 1.78 | | 264 | | 351 | | |



PART I

Monthly Hydrologic Data

Indian River Farms Drainage District (W-1)

10/1/62 - 9/30/63

CENTRAL AND SOUTHERN FLORIDA FLOOD CONTROL DISTRICT & UNIVERSITY OF FLORIDA, AGRICULTURAL EXPERIMENT STATION

MONTHLY HYDROLOGIC DATA INDIAN RIVER FARMS DRAINAGE DISTRICT

U.S.D.A., A.R.S., APRIL 1981 REVISED JAN. 1966

FLORIDA WATERSHED W - I *NOTE: Runoff data provisional only.

| DATE | | | | | RAIN | IFAL | L | | | | | | STAGE | | | | DISCH | ARGE | | |
|------------------------------|------|-------|-------|-----|------|------|-------|-------------|-----|--------|-------------------------------|---|--|--------------------------|----------------------------|--|---------------------------------------|---------------------------------|----------------------------------|--------------|
| OFC MONTH 1962 YEAR | M | IEASU | RED I | | ALL | * | VEIGH | TED R | | LL | TOTAL WEIGHTED RAINFALL | MAIN CANAL | NORTH RELIEF CANAL | SOUTH RELIEF CANAL | MAIN GANAL | NORTH RELIEF CANAL | SOUTH RELIEF CANAL | TOTAL DISCHARGE | TOTAL DISCHARGE (Qx.00047) | PAN EVAP. |
| | P | A | C | 0 | R | 14% | 16 % | 26% | | 25% | | | | | | | Ļ | | (IN. OVER | |
| | - | | NCHE | 51 | | | | NCHE | 4 | | (INCHES) | (FT. | M.S. | L.) | | SEC. F.T. | | (SEC. FT.) | | (INCHES) |
| | _ | .02 | - | _ | | | .00 | | | | 0.00 | 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | 265 265 265 265 | 2822 | 68994 | 00000000000000000000000000000000000000 | 0050 0050 | 89.9 85.4 84.5 | 096 | .08 |
| 3 | - | T | | | L | | | - | | | | 8.74 | 265 | 282 | 47 | 84 | 80 | 854 | .040 | 08 |
| 3 | | | | | | | - | + | | | | 274 | 2.65 | 282 | 67 | 80 | 7.5 | 84.5 | .040 | .15 |
| | | 44 | | | | | - | - | | 43 | 003 | 7 03 | 265 | 3 33 | 14 | 80 | 8.0 | 900 | ,042 | .12 |
| 6 | | 04 | _ | | .10 | - | 01 | - | | 02 | 003 | 898 | 2.64 | 2 03 | 70 | 20 | 7.5 | 96.5 | .045 | |
| 7 | | | - | | | | | + | | | | 070 | 266 | 2.03 | 7 9 | 67 | 7.5 | 80.7 | .029 | .10 |
| 8 | - | - | | _ | _ | | | | | - | | 8.74 | 7.66 | 2 93 | 10 | 00 | 15 | 62 4 28 9 | .014 | .03 |
| 9 | 12 | .08 | 05 | 05 | | 07 | n/ | .01 | 01 | | 0 05 | 847 | 267 | 2.83 2.83 2.81 | 20 | 200 | 53 | 220 | .016 | .03 |
| 10 | ,,, | .00 | .بي | | | 1976 | .01 | .01 | ,01 | | 0 00 | R.69 | 768 | 2.80 | 40 | 24 | 73 | 53 2 | 025 | 25 |
| 11 | | - | | | | | - | | | | | 905 | 2.69 | 2.80 | 90 84 84 6/ 77 | 24 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 338 532 972 968 189 | .046 | 16 |
| 12 | | | | | | | - | | | | | 897 | 7 68 | 2.81 | 04 | 20 | 4 | 968 | .045 | 3-7 |
| 13 | | | | | | | | | | | | 8 28 | 2 68 2 68 2 70 2 91 2 72 2 77 | 281 | 61 | 80 | 08 | 189 | .009 | 13 |
| 14 | | | | | | | | | | | | 830 | 2 70 | 2 87 | 77 | 84 | 18 | 209 | .016 | |
| 15 | | | | | | | | | | | | 947 | 291 | 281 | 176 | 20 | | 205.1 | 096 | 10 |
| 16 | | | | | | | | | | | | 9 25 | 772 | 2 80 | 176 | 94 | 35 | 1973 | .069 | 07 |
| 17 | | | | | | | | | | | | 927 | 271 | 7 80 | 130 | 54 | 35 | 1919 | ,067 | 07 |
| 18 | | | | | | | | | | | | 9 32 | 272 | 2 80 | 125 | 89 | 3.5 | 1374 | 065 | 10 |
| 19 | | | | | | | | | | | | 930 | 213 | 2 30 | 122 | 6 8 2 9 7 6 8 2 2 9 7 | 73 | 1352 | 064 | |
| 20 | | | | | _ | | | - | | | | 878 | 274 | 2220 | 130 125 122 55 | 94 | 35 | 1919 1374 1379 365 | .632 | 11 |
| 21 | | | | | _ | | | - | | - | | 930 | 277 | 201 | 22 | 11 | 3.5 | 365 | . 617 | 09 |
| 22 | | | | - | | - | - | | | | | 9 22 871 903 | 272 273 274 277 278 273 | 2 83 | 114 | 11 | 37 | 128.9 | 061 | .10 |
| 23 24 | 100 | 10 | 05 | 40 | 7 6 | 01 | An | | -0 | - 0 | 0.24 | 271 | 1.73 | 2 23 | 500 | 94 | A L will | 64 3 | .030 | 14 |
| 25 | . 10 | .10 | .03 | .40 | 30 | 000 | 04 | .01 | .08 | 00 | 0 26 | 0 33 | 2/3 | 2.83 2.85 | 03 | 64 | 3.7 | 1095 68 68 | . ~17 | .12 |
| 26 | -53 | 44 | 120 | | | (48) | 01 | .05 | | | 0 20 | 8 - 3 | 2 73 | 2.85 | 7.3 | 30 | 7 5 | 953 | 035 | .13 |
| 27 | - | | | - | - | | | - | | - | | 8.70 | 273 273 273 273 272 | 7 80 | 91 | 74 | 5 3 | 537 | 1025 | .11 |
| 28 | | | | | | | | | | \neg | | 8 76 | 270 | 2.29 | 40 | 67 | 23 | 605 | 028 | 11 |
| 29 | - | | | | | | | | | \neg | | 9 05 | 269 | 2 98 | 49 | / 41 | 22 | 605 952 | .045 | .14 |
| 30 | | | | | | | | | | | | 5 17 | 2 48 | 2 00 | 102 | 55 | 59 | 1131 | 0.53 | 12 |
| 3 | | | | | | | | | | | | 901 | 268 | 289 | 79 | 61 | 5 3 | 87 9 | 1042 | 13 |
| TOTAL | 77 | 68 | .30 | 4.5 | 40 | -11 | .11 | ムブ | 09 | .10 | 0.48 | | _ | | 2.298. = | 266.1 | 168 2 | | | 358 |
| | 11 | 1.40 | .52 | 1 | 110 | | | 101 | 93 | ,, , | V 10 | | | | 12 .01 | | , 400 E | 2,80317 | - 1 | 220 |

| DATE | | | | | RAIN | IFAL | L | | | | | | STAGE | | | | DISCH | ARGE | | |
|-----------------------|------|--------|----------|----------|--------|------|-----|-------|-----|--------|-------------------------------|--|------------------------------------|---------------------------------------|---|--|--------------------------|--|---|---|
| MONTH 1963 YEAR | M | | GAGE | _ | | w | | TED R | | LL | TOTAL WEIGHTED RAINFALL | MAIN CANAL | NORTH RELIEF CANAL | SOUTH RELIEF CANAL | MAIN CANAL | NORTH RELIEF CANAL | SOUTH RELIEF CANAL | TOTAL DISCHARGE | TOTAL DISCHARGE (Qx.00047) | PAN EVAP. |
| | P | 2 A | 3 C | 0 | 5 R | 14% | | 26% | | 25% | | V | | V | V | | 7 | | (IN. OVER | |
| | | (| NCHE | 5) | | _ | (| INCHE | 9) | | (INCHES) | (FT. | M S | L.) | | SEC. FT. | | (SEC. FT.) | | (INCHES) |
| 1 | - | | _ | | - | | | | | | | 289 | 270 | 8.78 | 13 | 24 | 50 | 617 | .029 | .23 |
| 2 | | | | - | | _ | | | | | | 2 99 | 271 | 8 70 | | 73 | 41 | | .024 | 15 |
| 3 | - | | | - | | | - | + | - | | | | 2.13 | 9 75 | | 7.4 | 46 | 52 3 56 2 | 027 | 17 |
| 5 | - | | | | | - | | + | - | | | 290 | 274 | 9 75 | 93 | 74 | 200 200 200 200 | 600 | .028 | .15 |
| 6 | | | | | 1 | | | | | | | 293 | 274 | E -17 | 5.8 | 76 | 19 | 65.8 | .031 | .10 |
| 7 | .10 | .16 | . 15 | .05 | .10 | .01 | .03 | .04 | .01 | .02 | 011 | 254 | 2.76 | 7.11 | 58 | 74 | 92 | 105 8 | .050 | 123 |
| 8 | . 75 | 114 | 112 | .10 | | .02 | - | | .02 | | 0.04 | 294 | 2.76 | 9 19 | 58 | 79 | 55 | 717 | .033 | 06 |
| 9 | | | | | | | | | | | | 299 299 272 | 276 | 9 19 | 58 | 74 | | 59.2 | . 030 | . 18 |
| 10 | | | | | | | | | | | | 272 | 2 75 | 200 | 13 | 67 | 70 | 51.0 | 039 | .07 |
| - 11 | | | <u> </u> | <u> </u> | | | | | | | | 2 93 | 2 72 | 8 23 | 13 | 58 | -1 | 696 | 008 | .10 |
| 12 | | | | | | | | | | | | 2 44 | 269 | F 29 | 13 | 75 | 57 | 162 | 008 | .06 |
| 13 | ./2 | 09 | | .20 | .20 | 102 | - 1 | - 1 | | | 016 | 294 | 2 70 | 9 75 | 12 | 51 | 112 | 1229 | -03/ | 03 |
| 15 | 1.2 | 07 | .16 | .20 | .20 | .02 | 101 | .64 | 04 | 03 | 016 | 276 | 270 | 9 24 | 32 | 51 | | / / | .033 | 12 |
| 16 | _ | - | | | | - | - | | | - | | 2.97 | 2.71 | 883 | 1, 6 | 61 | 56 | 71.2 | 032 | 103 |
| 17 | _ | .22 | 10 | 20 | .35 | | 04 | .03 | Λ4 | .09 | 020 | 397 | 274 | 8 84 | 1.4 | 64 | 57 | 69.8 | ,933 | .10 |
| 18 | _ | .03 | 1.70 | 20 | 12. | - | .00 | 20.2 | .04 | a.z.L. | 000 | 255 | 2 73 | 890 | 7 | w 1 | 64 | 76= | 036 | 13 |
| 19 | | | | | | | - | | | 1 | | 299 | 273 272 | 8 9 7 8 3 7 8 3 7 | 58 | 50 | 63 | 796 | .035 | . 15 |
| 20 | | | | | | | | | | | | 298 | 2 74 | | 53 | 64 | 59 | 6.77 | 1030 | .12 |
| 21 | | .24 | | | | | .04 | - | | | 004 | 7557 7577 7577 7578 7578 7578 7578 7578 | 2.75 | 9 09 | a- | 67 | 10 | 816 | .048 | .25 |
| 22 | | | | | | | | | | | | 30/ | 2.74 | | :4 | 64 | 6: | | ් 38° | 30 |
| 23 | | | | | | | | - | | - | | | 2 74 | 947 | 4 3 | 64 | 22 | 392 | .016 | .16 |
| 24 25 | | _ | - | | | | | _ | | - | | 301 | 275 | 8 52 8 30 | 28 | 67 | 24 | 3 5 | .017 | .13 |
| 26 | .38 | .30 | .20 | 28 | .20 | 05 | .05 | 00 | 05 | .05 | 025 | 304 | 2 74 | 9 30 | 6.7 | 12 | 7.1 | 3 - 5 19 9 132 9 | 009 | .11 |
| 27 | 125 | .02 | | 20 | .20 | ,03 | .00 | | 03 | .05 | 002 | 3 04 | 278 | 9 50 | 67 | 77 | 157 | 170 6 | 090 | .13 |
| 28 | | . 02 | .00 | | | | 00 | .02 | | | 302 | 3 03 | 274 | 37 | 68 | 64 | 62 | 79 2 | 250 | ./3 |
| 29 | | | | | | - | | | | | | 307 | 2.74 | 8 40 | 33 | 64 | 34 | -19 2 | ,525 | |
| 30 | | | - | | | | | | | | | 277 | 2 72 | 887 | | | | 72 2 | 034 | -5 |
| 3 | | | | | | | | | | | | 2 59 | 2 72 | 873 | 58 | 58 | 50 | 616 | . 029 | 04 |
| TOTAL | .75 | 106 | 67 | 83 | .85 | .10 | 17 | 18 | 16 | 21 | 0.82 | | | | 179.7 | 213.5 | | 2.209.9 | 1035 | 4,10 |
| | .75 | 106 | .67 | | | | | | | | | | .83 .85 .10 .17 .18 .14 .21 0.82 — | .83 .85 .10 .17 .18 14 .21 0.82 — — — | 1.83 .85 .10 .17 .18 .14 .21 0.82 — — — | 1.83 .85 .10 .17 .18 16 .21 0.82 — — 179.7 | 2 17 2 72 8 78 5 5 5 | 83 85 .10 .17 18 14 .21 0 82 - 179.7 2385 1.3267 | 83 85 10 17 18 16 21 0 82 - 179.7 28.5 1,9267 2,209.9 | 83 .85 .10 .17 .18 .14 .21 0.82 - 179.7 23.5 1,3267 2,209.9 1 635 |

CENTRAL AND SOUTHERN FLORIDA FLOOD CONTROL DISTRICT & UNIVERSITY OF FLORIDA, AGRICULTURAL EXPERIMENT STATION

UNIVERSITY OF FEDRIDA , AGRICULTURAL EXPERIMENT SWITCH

U.S.D.A. APRIL 1961

MONTHLY HYDROLOGIC DATA INDIAN RIVER FARMS DRAINAGE DISTRICT

FLORIDA WATERSHED W- | *NOTE: Rumoff data provisional only.

| DATE | | | | | RAIN | IFALI | | | | | 7 | | STAGE | | | | DISCH | ARGE | | |
|---|-----------------------------------|---|--|----------------------|----------------------------------|---|--|---------------------------------|--|--------------------------|--|--|---|--|--|---|--|--|--|--|
| PRIL MONTH 963 YEAR | М | EASU | RED | RAINF | ALL | - | | GAGE | AINFAL | _ | TOTAL WEIGHTED RAINFALL | MAIN GANAL | NORTH RELIEF CANAL | SOUTH RELIEF CANAL | MAIN CANAL | NORTH RELIEF CANAL | SOUTH RELIEF CANAL | TOTAL DISCHARGE | TOTAL DISCHARGE (0x.00047) | PAN EVAP. |
| | P | 2 A | C | 0 | R | 14% | 16 % | 3 26% | 19% | 25% | Towns 1 | 10.5 | | | | SEC. FT. | | (SEG. FT.) | (IN. OVER | INCHES |
| | | . (| NCHE | (1) | - | - | () | IOHE | 3) | - | (INCHES) | G / | M . I | L.) | | | | | 049 | . 33 |
| 2 | - | | - | | - | | | | | - | | 9.11 | 2.57 | 374445558 | 90 93 52 30 35 37 93 46 | 100 100 000 000 000 000 000 000 000 000 | 200 | 1019 | 049 | |
| 3 | | | | - | 1 | | | | | | | 8.80 | 2.54 | 3.14 | 52 | 4.8 | 1.8 | 62.6 | .029 | 37 |
| 4 | | | | | | | | | | | | Ø 57 | 2.55 | 3.14 | 30 | 5.1 | 5 B | 407 | .619 | .19 |
| 5 | | | _ | | | | _ | | | -0-0 | | 8 64 | 2.55 | 3.15 | 35 | 51 | 6.4 | 465 | 022 | .19 |
| 6 | | 14 | 100 | | 10 | | 02 | ^3 | .01 | .02 | 0.08 | 8 71 | 254 | 3 18 | 42 | 28 | 5 9 75 | 97.6 59.3 | ,022 | |
| 8 | | 14 | 10 | .05 | 1.10 | | 02 | .02 | .01 | .02 | 0.00 | 877 | 2.53 | 3 18 | 93 | 4.5 | 75 | 55.0 | 1026 | .22 |
| 9 | | | | | | | | | | | | 875 | 2.54 | 3 18 | 46 | 48 | 75 | 5 B 3 | 1027 | .18 |
| 10 | | | | | | | | | | | | 8 7/ 8 7/ 8 7/ 8 75 8 8/ | 255 | 3 19 | 53 | 54 | 67 | 589 | 028 | .19 |
| 12 | | | - | - | - | | - | | | | | R 75 | 2.56 | 3 /9 | 32 | 58 | 75 | 589 953 | .021 | .37 |
| 13 | 10 | - | _ | - | - | ,01 | | | | | 0.01 | 139 | 2.55 | 3 19 | 30 | 1.12 | 67 | 433 | .020 | 27 |
| 14 | ALS. | | | | 1 | ,01 | | | | | 61. | 8 84 | 259 | 3.19 | 57 35 23 | 4830 500 | 67 | 70.3 | 033 | 26 |
| 15 | | | | | | | | | | | | 8 60 | 257 | 3 17 | 35 | 58 | 69 | 47.7 | ,022 | 27 |
| 16 | | | | | - | - | | | - | | - | 829 | 2.54 | 3 15 | 23 | 93 | 53 | 334 | 016 | .27 |
| 17 | | | | - | - | | | | | | | 290 | 2.5% | 3 19 | (~4 | 51 | 64 | 33 4 75 5 | .635 | . 22 |
| 19 | - | | | | | | | | | | | 594 667 90 20 50 10 10 10 10 10 10 10 10 10 10 10 10 10 | 25.5554234567255555555555555555555555555555555555 | 30000000000000000000000000000000000000 | 54 | 500000 | 0.5005 nv | 641 | 1023 | 21 |
| 20 | | | | | | | | | | | | 8 70 | 253 | 3 17 | 90 37 | 9935 | 14 5,6,6 64 DB | 198 | 1023 | 21 |
| 21 | _ | | | | - | | | | _ | - | | 901 | 255 | 3 17 | 37 | 95 | 5 2 | 97 / | 022 | 120 |
| 23 | | | - | - | - | - | - | | | | | 880 | 256 | 3 17 | 51 | 43 | 53 | 60.6 | .02 | 27 |
| 24 | | | | | | | | | | | | 865 | 255 | 3 19 | 77 51 35 53 | 37 | 53 | 49 Q 62,1 | 1027 | .13 |
| 25 | | | | | | | | | | | | 8 BZ 8 86 | 2.57 | 3.15 | 53 | 37 | 18 | 62.1 | .632 | .3.7 |
| 26 | | .10_ | - | .13 | 50 | _ | .02 | | 02 | Δb | 0.09 | 8 86 | 259 | 3 21 | 58 | 45 | 8 | 600 | .632 | 2. |
| 27 | | | | - | - | - | | | | | | 888 | 259 | 3 23 | 62 | 37 | 69 | 7/.2 | . 0 | .90 |
| 29 | | | | - | | _ | | | | | | 9 % | 2.58 | 3 19 | 34 | 3.7 | 93 | 920 | 043 | .36 |
| 30 | .55 | 13 | 60 | .55 | 115 | .06 | 08 | .16 | .10 | ,02 | 044 | 860 | 252 | 3 20 | 34 | 37 | 4.8 | 435 | 20 | 38 |
| 3 | | | | | | | | | | | | | | | | | 1 40 4 40 | | | |
| TAL | , is 5° | | 1.70 | 73 | 40 | .09 | .12 | ,17 | ./3 | 07 | 062 | | | | 1,960.6 | 1434 | 184.7 | 1,788.9 | J / | 7.73 |
| A-T-F | | _ < | 06 | 4) | DAIN | IEAL | 1 | | | | | | CTACE | | 1 | | DISCH | ADCE | | |
| ATE | | | | | HAIR | IFAL | | | | | | - | STAGE | T | | | DISCH | ARGE | _ | - |
| AY | М | FARII | | | | 10 | | | | | | | | | | | | | | |
| | | EMOU | RED | RAINE | ALL | W | EIGHT | ED R | AINFAL | LL | TOTAL | MAIN | NORTH | SOUTH | MAIN | NORTH | SOUTH | TOTAL | TOTAL | PAN |
| 63 | | EAGU | | | ALL | " | EIGHT | _ | | LL | WEIGHTED | MAIN GANAL | RELIEF | RELIEF | MAIN CANAL | RELIEF | RELIEF | | DISCHARGE | PAN EVAP. |
| EAR | | 2 | GAGE | | | | | GAGE | | | | | | | | | | | | |
| EAR | l P | 2 A | | | ALL 5 | | | GAGE | | | WEIGHTED | | RELIEF | RELIEF | CANAL | RELIEF | RELIEF | DISCHARGE | DISCHARGE (Qx.00047) | EVAP. |
| EAR | P | 2 A | GAGE 3 C | 4 0 S) | 5 R | 14% | 16% | GAGE 3 26% | 19% | 5 25% | WEIGHTED RAINFALL (INCHES) | CANAL | RELIEF CANAL M . S | RELIEF | GANAL (| RELIEF CANAL SEC FT. | RELIEF CANAL | DISCHARGE | DISCHARGE (Qx.00047) (IN. OVER DISTRICT) | EVAP. |
| EAR | | 2 A | GAGE 3 C | 0 (8) | 5 R | | 16% | GAGE 3 26% | 19% | 5 25% | WEIGHTED RAINFALL | CANAL (FT. | RELIEF CANAL M . S | RELIEF | GANAL (| RELIEF CANAL SEC FT. | RELIEF CANAL | (SEC. FT.) | DISCHARGE (Qx.00047) (IN. OVER DISTRICT) | (INCHES |
| EAR I 2 | P . 25 | 2 A () | GAGE 3 C NCHE | 0 (S) | 5 R | 14% | 16% | GAGE 3 26% NCHES | 19% | 25% | WEIGHTED RAINFALL (INCHES) | CANAL (FT. | RELIEF CANAL M . S | RELIEF | ((73 | RELIEF CANAL SEC FT. | RELIEF CANAL | (SEC. FT.) | DISCHARGE (Qx.00047) (IN. OVER DISTRICT) | (INCHES |
| I 2 3 | P | 2 A () 35 | GAGE 3 C NGHE . 25 | 4 0 S) | 5 R | .04 | .06 | GAGE 3 26% NCHES | 19% | .02 | WEIGHTED RAINFALL (INCHES) | (FT. 987 935 938 937 | RELIEF CANAL M . S 2 6 2 2 6 3 2 6 2 | RELIEF | (73 129 134 122 | RELIEF CANAL SEC. FT. | RELIEF CANAL | (SEC. FT.) | DISCHARGE (Qx.00047) (IN. OVER DISTRICT) | (INCHES |
| I 2 3 4 5 5 | P . 25 | 2 A () | GAGE 3 C NGHE . 25 | 0 (S) | 5 R | .04 | 16% | GAGE 3 26% NCHES | 19% | 25% | WEIGHTED RAINFALL (INCHES) | (FT. 987 935 938 937 | RELIEF CANAL M . S 2 6 2 2 6 3 2 6 2 | RELIEF | 73 129 134 122 97 | RELIEF CANAL SEC FT. | RELIEF CANAL | (SEC. FT.) 84 2 141 147 6 | DISCHARGE (Qx.00047) (IN. OVER DISTRICT) .>30 .063 | (INCHES . 25 . 32 . 31 . 07 . 35 |
| 1 2 3 4 | P . 25 | 2 A () 35 | GAGE 3 C NGHE . 25 | 0 (S) | 5 R | .04 | .06 | GAGE 3 26% NCHES | 19% | .02 | WEIGHTED RAINFALL (INCHES) | (FT. 987 935 938 937 | RELIEF CANAL M . S 2 6 2 2 6 3 2 6 2 | RELIEF | 73 129 134 122 97 | RELIEF CANAL SEC FT. | RELIEF CANAL | (SEC. FT.) 84 2 141 147 6 | DISCHARGE (Qx.00047) (IN. OVER DISTRICT) | (INCHES . 25 . 32 |
| 1 2 3 4 5 | P . 25 | 2 A () 35 | GAGE 3 C NGHE . 25 | 0 (S) | 5 R | .04 | .06 | GAGE 3 26% NCHES | 19% | .02 | WEIGHTED RAINFALL (INCHES) | (FT. 987 935 938 937 9856 | RELIEF CANAL M . S 2 6 2 2 6 3 2 6 2 | RELIEF | 73 129 134 122 97 | RELIEF CANAL SEC FT. | RELIEF CANAL | (SEC. FT.) 84 2 141 147 6 116 2 | DISCHARGE (Qx.00047) (IN. OVER DISTRICT) , SCOOL COLOR COL | (INCHES .25 .32 .07 .35 .27 |
| 1 2 3 4 5 6 7 | P . 25 | 2 A () 35 | GAGE 3 C NGHE . 25 | 0 (S) | 5 R | .04 | .06 | GAGE 3 26% NCHES | 19% | .02 | WEIGHTED RAINFALL (INCHES) | GANAL (FT. 9 87. 7 38. 7 37. 9 17. 8 56. 8 54. | RELIEF CANAL M . S 2 6 2 2 6 3 2 6 2 | RELIEF GANAL 3 24 3 26 3 30 3 27 3 32 3 22 3 22 3 22 3 22 | 73 129 134 122 97 | SEC FI. | RELIEF CANAL 75 71 123 77 77 77 77 77 77 77 77 77 77 77 77 77 | (SEC. FT.) 84 2 141 147 6 116 2 64 3 | DISCHARGE (Qx.00047) (IN. OVER DISTRICT) , AG , A | (INCHE: .25 .32 31 .07 35 .27 |
| 1 2 3 4 5 6 7 8 9 | P . 25 | 2 A () 35 | GAGE 3 C NGHE . 25 | 0 (S) | 5 R | .04 | .06 | GAGE 3 26% NCHES | 19% | .02 | WEIGHTED RAINFALL (INCHES) | (FT. 987 935 937 937 937 937 956 952 | RELIEF CANAL M . S 2 6 2 2 6 3 2 6 2 | RELIEF CANAL 1.) 3.24 3.26 3.30 3.27 3.22 3.22 3.22 3.22 3.22 | 73 129 134 122 97 | SEC FI. | RELIEF CANAL) 75 71 75 71 75 71 75 77 77 77 77 77 77 77 77 77 77 77 77 | (SEC. FT.) 84 2 141 147 6 116 2 47: 32.4 32.4 33.7 | DISCHARGE (Qx.00047) (IN. OVER DISTRICT) | (INCHES 32 31 07 35 27 26 26 4 |
| 1 2 3 4 5 6 7 8 9 0 1 | P . 25 | 2 A () 35 | GAGE 3 C NGHE . 25 | 0 (S) | 5 R | .04 | .06 | GAGE 3 26% NCHES | 19% | .02 | WEIGHTED RAINFALL (INCHES) | (FT. 987 935 937 937 937 937 956 952 | RELIEF CANAL M . S 2 6 2 2 6 3 2 6 2 | RELIEF CANAL 3 24 3 26 3 32 3 32 3 32 3 32 3 22 3 22 3 22 | 73 129 134 122 97 | SEC FI. | RELIEF CANAL) 75 71 31 43 | (SEC. FT.) 84 2 141 147 6 116 2 47: 32.4 32.4 33.7 | DISCHARGE (QX.00047) (IN. OVER DISTRICT). | (INCHES 32 31 07 35 27 26 26 4 |
| 1 2 3 4 5 6 7 8 9 0 | P . 25 | 2 A (1) .35 .45 .72 .02 | GAGE 3 C NGHE . 25 | 0 (S) | 5 R | .04 | 16% (III | GAGE 3 26% NCHES | 19% | .02 | WEIGHTED RAINFALL (INCHES) | GANAL (FT. 9 87 9 35 9 38 9 31 9 35 9 55 8 55 8 56 8 56 8 56 8 56 | RELIEF CANAL M . S 2 6 2 2 6 3 2 6 2 | RELIEF CANAL 3 24 3 26 3 32 3 32 3 32 3 32 3 22 3 22 3 22 | 73 129 134 122 97 | SEC FI. | RELIEF CANAL) 75 75 77 77 77 77 77 77 77 77 77 77 77 | SEC. FT.) 84 2 147 6 116 2 6 32 6 3 3 7 3 7 6 39 6 6 6 6 6 6 6 6 6 6 | DISCHARGE (Qx.00047) (IN. OVER DISTRICT) | (INCHE: , 25 . 32 . 37 . 27 . 26 . 4 . 29 |
| 1 2 3 4 5 6 6 7 7 8 8 9 0 1 1 2 2 3 | P . 25 | 2 A () 35 | GAGE 3 C NGHE . 25 | 0 (S) | 5 R | .04 | .06 | GAGE 3 26% NCHES | 19% | .02 | WEIGHTED RAINFALL (INCHES) | GANAL (FT. 9 87 9 35 9 38 9 31 9 35 9 55 8 55 8 56 8 56 8 56 8 56 | RELIEF CANAL M . S 2 6 2 2 6 3 2 6 2 | RELIEF CANAL 3 24 3 26 3 32 3 32 3 32 3 32 3 22 3 22 3 22 | 73 129 134 122 97 | RELIEF CANAL SEC. FT. 9.5 9.2 3.2 3.7 9.0 9.3 9.3 9.3 9.3 9.3 | RELIEF CANAL) 75 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | (SEC. FT.) 842 147 147 612 249 327 337 47 45 | DISCHARGE (QX.00047) (IN. OVER DISTRICT). | (INCHES 25 . 32 . 31 . 07 . 35 . 26 . 26 . 29 . 31 . 22 . 31 . 22 . 31 . 22 . 31 . 31 |
| 1 2 3 4 5 6 6 7 8 9 0 1 2 3 4 | P . 25 | 2 A (1) .35 .45 .72 .02 | GAGE 3 C NGHE . 25 | 0 (S) | 5 R | .04 | 16% (III | GAGE 3 26% NCHES | 19% | .02 | WEIGHTED RAINFALL (INCHES) | (FT. 8-5.35 4-3.15 4-3.15 4-3.15 8-5.54 8-5.54 8-5.54 8-5.54 8-3.4 | M. S 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 2 2 6 2 | RELIEF CANAL 3 24 3 26 3 30 3 27 3 22 3 22 3 23 3 23 3 23 3 23 | 73 127 134 122 97 26 25 24 25 26 27 27 | RELIEF CANAL SEC. FT. 93 932 3327 900 9337 900 937 | RELIEF CANAL) 755-7-16-17-17-17-17-17-17-17-17-17-17-17-17-17- | (SEC. FT.) 84 2 191 147 6 116 2 632 7 337 319 4 45 0 35 3 | DISCHARGE (Qx.00047) (IN. OVER DISTRICT) | (INCHE: 25 . 32 . 32 . 37 . 35 . 26 . 26 . 29 . 31 . 22 . 31 . 22 . 31 . 31 . 31 . 31 |
| 1 2 3 4 5 6 7 8 9 9 0 1 1 2 1 3 1 4 1 5 1 6 | P . 25 | 2 A (1) .35 .45 .72 .02 | GAGE 3 C NGHE . 25 | 0 (S) | 5 R | .04 | 16% (III | GAGE 3 26% NCHES | 19% | .02 | WEIGHTED RAINFALL (INCHES) | (FT. 8-53-58-52-58-53-64-4-8-34-68-68-34-68-68-68-68-68-68-68-68-68-68-68-68-68- | M. S 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 2 2 6 2 | RELIEF CANAL 3 24 3 26 3 30 3 27 3 22 3 22 3 23 3 23 3 23 3 23 | 73 127 134 122 97 26 25 24 25 26 27 27 | RELIEF CANAL SEC. FT. 93 932 3327 900 9337 900 937 | RELIEF CANAL) 70 / 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | (SEC. FT.) 842 141 147 6 132 7 32 7 37 37 37 37 | DISCHARGE (Qx.00047) (IN. OVER DISTRICT) | (INCHES 32 31 07 35 27 26 24 29 22 37 20 |
| 1 2 3 4 4 5 6 6 7 7 8 8 9 9 10 11 1 1 2 2 1 3 1 4 1 5 6 6 1 7 | P . 25 | 2 A (1) .35 .45 .72 .02 | GAGE 3 C NGHE . 25 | 0 (S) | 5 R | .04 | 16% (III | GAGE 3 26% NCHES | 19% | .02 | WEIGHTED RAINFALL (INCHES) | (FT. 8-53-58-52-58-53-64-4-8-34-68-68-34-68-68-68-68-68-68-68-68-68-68-68-68-68- | M. S 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 2 2 6 2 | RELIEF CANAL 3 24 3 26 3 30 3 27 3 22 3 22 3 23 3 23 3 23 3 23 | 73 127 134 122 97 26 25 24 25 26 27 27 | RELIEF CANAL SEC. FT. 93 932 3327 900 9337 900 937 | RELIEF CANAL) 70 / 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | (SEC. FT.) 842 141 147 6 132 7 32 7 37 37 37 37 | DISCHARGE (Qx.00047) (IN. OVER DISTRICT). | (INCHE: .25 .32 .31 .07 .27 .26 .24 .29 .31 .22 .31 .22 .31 .22 .31 .22 .31 .22 .31 .22 .31 .22 .31 |
| 1 2 3 3 4 5 5 6 6 7 7 8 9 9 1 0 1 1 1 1 2 2 1 3 1 4 4 5 5 6 6 1 7 1 8 | P . 25 | 2 A (1) .35 .45 .72 .02 | GAGE 3 C NGHE . 25 | 0 (S) | 5 R | .04 | 16% (III | GAGE 3 26% NCHES | 19% | .02 | WEIGHTED RAINFALL (INCHES) | (FT. 8-53-58-52-58-53-64-4-8-34-68-68-34-68-68-68-68-68-68-68-68-68-68-68-68-68- | M. S 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 2 2 6 2 | RELIEF CANAL 3 24 3 26 3 30 3 27 3 22 3 22 3 23 3 23 3 23 3 23 | 73 127 134 122 97 26 25 24 25 26 27 27 | RELIEF CANAL SEC. FT. 93 932 3327 900 9337 900 937 | RELIEF CANAL) 70 / 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | (SEC. FT.) 842 141 147 6 132 7 32 7 37 37 37 37 | DISCHARGE (Qx.00047) (IN. OVER DISTRICT) | (INCHES . 25 . 32 . 31 |
| 1 | P . 25 | 2 A (1) .35 .45 .72 .02 | GAGE 3 C NGHE . 25 | 0 (S) | 5 R | .04 | 16% (III | GAGE 3 26% NCHES | 19% | .02 | WEIGHTED RAINFALL (INCHES) | (FT. 8-53-58-52-58-53-64-4-8-34-68-68-34-68-68-68-68-68-68-68-68-68-68-68-68-68- | M. S 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 2 2 6 2 | RELIEF CANAL 3 24 3 26 3 30 3 27 3 22 3 22 3 23 3 23 3 23 3 23 | 73 127 134 122 97 26 25 24 25 26 27 27 | RELIEF CANAL SEC. FT. 93 932 3327 900 9337 900 937 | RELIEF CANAL) 70 / 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | (SEC. FT.) 842 141 147 6 132 7 32 7 37 37 37 37 | DISCHARGE (Qx.00047) (IN. OVER DISTRICT) | (INGHE: .25 .32 .31 .27 .26 .26 .29 .31 .25 .31 .25 .31 .25 .31 .25 .31 .25 .31 .25 .31 .25 .31 .25 .31 |
| 1 2 2 3 4 4 5 5 6 6 7 8 8 9 9 10 11 1 2 2 1 3 1 4 1 5 5 6 6 1 7 1 8 1 9 2 2 0 2 2 1 | P . 25 | 2 A (1) .35 .45 .72 .02 | GAGE 3 C NGHE . 25 | 0 (S) | 5 R | .04 | 16% (III | GAGE 3 26% NCHES | 19% | .02 | WEIGHTED RAINFALL (INCHES) | (FT. 8-53-58-52-58-53-64-4-8-34-68-68-34-68-68-68-68-68-68-68-68-68-68-68-68-68- | M. S 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 2 2 6 2 | RELIEF CANAL 3 24 3 26 3 30 3 27 3 22 3 22 3 23 3 23 3 23 3 23 | 73 127 134 122 97 26 25 24 25 26 27 27 | RELIEF CANAL SEC. FT. 93 932 3327 900 9337 900 937 | RELIEF CANAL) 70 / 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | (SEC. FT.) 842 141 147 6 132 7 32 7 37 37 37 37 | DISCHARGE (Qx.00047) (IN. OVER DISTRICT) | (INCHES 25 31 32 32 32 32 32 32 32 32 32 32 32 32 32 |
| 1 2 3 4 5 5 6 6 7 7 8 8 9 9 1 0 1 1 1 2 2 1 1 3 1 4 4 1 5 5 6 6 1 7 8 9 1 0 2 2 0 2 2 1 2 2 2 2 | 25 30 | 2 A U 35 45 r 2 02 | GAGE 3 3 C NCHE 25 500 | .56 | 5 R | 14% | 000 | GAGE 3 26% NGHES OG | 10% | .02 | WEIGHTED RAINFALL (INCHES) 0 23 0 52 0 06 | (FT. 8-53-58-52-58-53-64-4-8-34-68-68-34-68-68-68-68-68-68-68-68-68-68-68-68-68- | M. S 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 2 2 6 2 | RELIEF CANAL 3 24 3 26 3 30 3 27 3 22 3 22 3 23 3 23 3 23 3 23 | 73 127 134 122 97 26 25 24 25 26 27 27 | RELIEF CANAL SEC. FT. 93 932 3327 900 9337 900 937 | RELIEF CANAL) 70 / 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | (SEC. FT.) 84 2 147 6 147 6 147 6 32.27 33.37 45.03 12.88 20.87 20.85 20.87 | DISCHARGE (Qx.00047) (IN. OVER DISTRICT) | (INGHES 25 31 07 35 27 26 29 31 22 27 29 31 22 27 29 31 22 31 22 5 27 21 1 1 |
| 1 2 3 3 4 5 5 6 6 7 8 9 9 1 1 1 1 1 2 2 1 1 3 1 4 1 5 1 5 1 7 1 8 1 9 2 2 2 2 2 2 2 3 | 25 30 | 2 A (U 35 45 (2 02 | GAGE 3 C NGHE | - 25 - 25 - 25 | 5 R | .04 | 000 | GAGE 3 26% NGHES | 10% | .10 | WEIGHTED RAINFALL (INCHES) 0 23 0 52 0 06 | (FT. 8-53-58-52-58-53-64-4-8-34-68-68-34-68-68-68-68-68-68-68-68-68-68-68-68-68- | M. S 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 2 2 6 2 | RELIEF CANAL 3 24 3 26 3 30 3 27 3 22 3 22 3 23 3 23 3 23 3 23 | 73 127 134 122 97 26 25 24 25 26 27 27 | RELIEF CANAL SEC. F.J. 435 457 457 475 475 475 475 475 475 475 47 | RELIEF CANAL) 70 / 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | (SEC. FT.) 84 2 147 6 147 6 147 6 32.27 33.37 45.03 12.88 20.87 20.85 20.87 | DISCHARGE (Qx.00047) (IN. OVER DISTRICT) | (INGHES . 25 . 32 . 31 |
| 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 22 22 22 22 22 | 30 .30 | 2 A 35 45 72 02 | GAGE 3 C NCHE . 25 500 | .56 | 5 R | .04 | 00 00 00 | GAGE 3 26% NGHES 06 | 19% | .02 | WEIGHTED RAINFALL (INCHES) 0 23 0 52 0 06 0 40 0 07 | (FT. 8-53-58-52-58-53-64-4-8-34-68-68-34-68-68-68-68-68-68-68-68-68-68-68-68-68- | M. S 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 6 2 2 2 2 6 2 | RELIEF CANAL 3 24 3 26 3 30 3 27 3 22 3 22 3 23 3 23 3 23 3 23 | 73 127 134 122 97 26 25 24 25 26 27 27 | RELIEF CANAL SEC. F.J. 435 457 457 475 475 475 475 475 475 475 47 | RELIEF CANAL TO THE STATE OF T | (SEC. FT.) 84 2 147 6 147 6 147 6 32.27 33.37 45.03 12.88 20.87 20.85 20.87 | DISCHARGE (Qx.00047) (IN. OVER DISTRICT) | (INGHES . 25 . 32 . 31 |
| 1 | 30 .30 | 2 A 35 45 72 02 | GAGE 3 3 C NCHE 25 500 | 45 0 | 5 R | .04 | 000 | GAGE 3 26% NGHES OG | 10% | .10 | WEIGHTED RAINFALL (INCHES) ○ 23 ○ 52 ○ 06 ○ 10 ○ 40 ○ 06 ○ 07 | GANAL (FT | M. S 2 6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | RELIEF CANAL 3 24 3 26 3 30 3 27 3 22 3 22 3 23 3 23 3 23 3 23 | 73 127 134 122 97 26 25 24 25 26 27 27 | RELIEF CANAL SEC. F.J. 435 457 457 475 475 475 475 475 475 475 47 | RELIEF CANAL 1 | SEC. FT. P. | DISCHARGE (Qx.00047) (IN. OVER DISTRICT) | (INCHES . 25 . 32 . 37 . 26 . 26 . 27 . 20 . 31 . 29 . 21 . 21 . 21 . 21 . 22 . 27 . 20 . 21 . 21 . 22 . 27 . 20 . 21 . 21 . 22 . 27 . 20 . 20 . 21 . 21 . 22 . 27 . 20 . 20 . 20 . 20 . 20 . 20 |
| 1 | 25 30 | 2 A (1) 35 45 72 02 02 | GAGE 3 C C C C C C C C C C C C C C C C C C | \$1 .56 | 5 R | .04 | 000 | GAGE 3 26% NGHES 06 13 | .09 | .10 02 | WEIGHTED RAINFALL (INCHES) ○ 23 ○ 52 ○ 06 ○ 10 ○ 40 ○ 06 ○ 07 | GANAL (FT | RELIEF CANAL M. S 2 623 2 623 2 623 2 623 2 623 2 623 2 773 2 773 2 773 2 773 2 773 2 773 2 773 | RELIEF CANAL 3 24 3 26 3 30 3 27 3 22 3 22 3 23 3 23 3 23 3 23 | CANAL (173 129 137 129 137 120 25 26 37 27 12 4 4 4 13 13 13 13 13 13 13 13 13 13 13 13 13 | RELIEF CANAL SEC. F.J. 435 457 457 475 475 475 475 475 475 475 47 | RELIEF CANAL 1 7-5-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1- | SEC. FT. P. 2 147 6 147 6 147 6 147 6 147 6 148 7 32. 6 32. 7 35. 33 35. 33 45. 00 35. 33 12. 08 12. 08 14. 08 15. 08 16. 08 17. | DISCHARGE (Qx.00047) (IN. OVER DISTRICT) | (INCHES . 25 . 32 . 37 . 26 . 26 . 27 . 20 . 31 . 29 . 21 . 21 . 21 . 21 . 22 . 27 . 20 . 21 . 21 . 22 . 27 . 20 . 21 . 21 . 22 . 27 . 20 . 20 . 21 . 21 . 22 . 27 . 20 . 20 . 20 . 20 . 20 . 20 |
| 1 2 2 3 4 5 6 6 7 8 8 9 10 11 12 2 13 14 15 16 17 8 19 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 25 30 | 2 A (1) 35 45 72 02 02 | GAGE 3 C C C C C C C C C C C C C C C C C C | 9 25 | 5 R 10 10 25 30 30 30 30 | .04 | 000 | GAGE 3 26% NCHES OG | .09 | .10 | WEIGHTED RAINFALL (INCHES) ○ 23 ○ 52 ○ 06 ○ 10 ○ 40 ○ 06 ○ 07 | GANAL (FT | RELIEF CANAL M. S 2 623 2 623 2 623 2 623 2 623 2 623 2 773 2 773 2 773 2 773 2 773 2 773 2 773 | RELIEF CANAL 3 24 3 26 3 30 3 27 3 22 3 22 3 23 3 23 3 23 3 23 | CANAL (173 129 137 129 137 120 25 26 37 27 12 4 4 4 13 13 13 13 13 13 13 13 13 13 13 13 13 | RELIEF CANAL SEC. FT. 935 990 970 970 970 970 970 970 970 970 970 | RELIEF CANAL 1 7 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | SEC. FT. P. 2 147 6 147 6 147 6 147 6 147 6 148 7 32. 6 32. 7 35. 33 35. 33 45. 00 35. 33 12. 08 12. 08 14. 08 15. 08 16. 08 17. | DISCHARGE (Qx.00047) (IN. OVER DISTRICT) | (INGHES .25 .31 .07 .27 .26 .27 .27 .29 .27 .29 .21 .27 .27 .20 .31 .20 .27 .20 .21 .20 .21 .22 .77 .22 .20 .21 .22 .77 .22 .20 .20 .20 .20 .20 .20 .20 .20 .20 |
| 1 | 25 30 | 2 A (1) 35 45 72 02 02 | GAGE 3 C C C C C C C C C C C C C C C C C C | 9 25 | 5 R 10 10 25 30 30 30 30 | .04 .04 .04 .04 .04 .02 .01 | 00 00 00 00 00 | GAGE 3 26% NCHES OG | .09 | .10 | © 10 © 40 © 07 © 03 © 07 © 07 | GANAL (FT | RELIEF CANAL M. S 2 623 2 623 2 623 2 623 2 623 2 623 2 773 2 773 2 773 2 773 2 773 2 773 2 773 | RELIEF CANAL 3 24 3 26 3 30 3 27 3 22 3 22 3 23 3 23 3 23 3 23 | CANAL (173 129 137 129 137 120 25 26 37 27 12 4 4 4 13 139 139 | SEC FT. 93 3 7 0 2 0 0 0 7 7 7 9 7 9 7 9 7 9 7 9 7 9 7 9 7 | RELIEF CANAL 1 7 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | SEC. FT. P. 2 147 6 147 6 147 6 147 6 147 6 148 7 32. 6 32. 7 35. 33 35. 33 45. 00 35. 33 12. 08 12. 08 14. 08 15. 08 16. 08 17. | DISCHARGE (Qx.00047) (IN. OVER DISTRICT) | (INGHES .25 .31 .07 .27 .26 .27 .29 .31 .29 .21 .21 .22 .7 .20 .31 .22 .7 .20 .31 .22 .7 .20 .31 .22 .7 .22 .22 |
| EAR 1 2 3 4 4 5 6 7 8 9 110 111 12 113 114 115 115 117 118 119 220 22 22 22 22 22 23 30 | 25 30 | 2 A (1) 35 45 72 02 02 | GAGE 3 C C C C C C C C C C C C C C C C C C | 45 .56 | 5 R . 100 . 250 . 350 . 35 | .04 | 00 00 00 00 00 00 00 00 00 00 00 00 00 | GAGE 3 26% NCHES OG | .09 .09 .00 .00 .00 .01 | .10 .02 .18 .96 | © 10 © 40 © 07 © 03 © 07 © 07 | GANAL (FT | RELIEF CANAL M. S 2 623 2 623 2 623 2 623 2 623 2 623 2 773 2 773 2 773 2 773 2 773 2 773 2 773 | RELIEF CANAL 3 24 3 26 3 30 3 27 3 22 3 22 3 23 3 23 3 23 3 23 | CANAL (173 129 137 129 137 120 25 26 37 27 12 4 4 4 13 139 139 | SEC FT. 93 3 7 0 2 0 0 0 7 7 7 9 7 9 7 9 7 9 7 9 7 9 7 9 7 | RELIEF CANAL 1 | SEC. FT. P. 2 147 6 147 6 147 6 147 6 147 6 148 7 32. 6 32. 7 35. 33 35. 33 45. 00 35. 33 12. 08 12. 08 14. 08 15. 08 16. 08 17. | DISCHARGE (Qx.00047) (IN. OVER DISTRICT) | (INCHES 25 31 07 35 27 35 27 26 29 31 22 3 |
| EAR 1 2 3 4 5 6 7 8 9 100 111 121 13 14 15 17 18 19 220 23 224 225 227 228 229 3 1 | 25 30 30 10 102 30 | 2 A (1) 35 45 (2) (2) (2) (3) (4) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4 | .30 .50 .10 | 45 56 | 30 50 30 30 30 30 | .04 .04 .04 .02 .01 .01 .01 | 000 | GAGE 3 26% NCHES 06 | .09 | .10 .10 .02 | WEIGHTED RAINFALL (INCHES) 0 23 0 52 0 06 0 40 0 00 0 | (FT. 8-53-58-52-58-53-64-4-8-34-68-68-34-68-68-68-68-68-68-68-68-68-68-68-68-68- | M. S 2 6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | RELIEF CANAL 3 24 3 26 3 30 3 27 3 22 3 22 3 22 3 22 3 23 3 23 3 23 | CANAL (173 129 137 129 137 120 255 24 25 27 12 4 13 13 13 13 13 13 13 13 13 13 13 13 13 | RELIEF CANAL SEC. F.J. 935 990 990 990 990 990 990 990 990 990 99 | RELIEF CANAL TO THE TOTAL TOTAL TO MARKETON TO THE TOTAL | SEC. FT. P. | DISCHARGE (0x.00047) (IN. OVER DISTRICT) | (INCHE .25 .32 .32 .32 .32 .32 .32 .32 .32 .32 .32 |

CENTRAL AND SOUTHERN FLORIDA FLOOD CONTROL DISTRICT & UNIVERSITY OF FLORIDA, AGRICULTURAL EXPERIMENT STATION

MONTHLY HYDROLOGIC DATA INDIAN RIVER FARMS DRAINAGE DISTRICT

U.S.D.A., A.R.S., APRIL 1861 REVISED JAN. 1866

| DATE | | | | | RAIN | IFAL | L | | | | | | STAGE | | | | DISCH | ARGE | | |
|----------------------|------|-----------|----------|-------------|--------|----------|-------|------|-----|---------|-------------------------------|----------------------|--------------------------|--------------------------|----------------------|--|--------------------------|--------------------|----------------------------------|-------------|
| HONTH 963 YEAR | М. | EASU 2 | RED GAGE | RAINF | ALL | v | VEIGH | GAGE | | LL 5 | TOTAL WEIGHTED RAINFALL | MAIN CANAL | NORTH RELIEF CANAL | SOUTH RELIEF CANAL | MAIN CANAL | NORTH RELIEF CANAL | SOUTH RELIEF CANAL | TOTAL DISCHARGE | TOTAL DISCHARGE (Qx.00047) | PAN EVAP |
| | Р | A | C | 0 | R | 14% | | 26% | | 25% | | | | | | | L | | (IN. OVER | |
| | | () | NCHE | 3) | | | (| MOHE | 1) | | (INCHES) | _ (FT. | M . S | | | SEC. FT. |) | (SEC. FT.) | DISTRICT) | (INCHE |
| 1 | | | | | | | | | | | | 9 00 | 2.76 | 393 | 74 | 1/ | 27 | 112.6 | .053 | .24 |
| 2 | | .02 | .30 | | | | .00 | .08 | | | 0.08 | 873 | 268 | 2.96 | 91 | 10 | 91 | 60.1 | .028 | .28 |
| 3 | | | | | | _ | | | | | | 637 | 2.68 | 296 | 63 74 94 | 10 | 9/ | 93.3 | .039 | .27 |
| 4 | | .05 | .35 | 10 | , 75 | <u> </u> | .01 | .69 | .02 | .19 | 031 | 901 | 267 | 3.04 | 74 | 24 | 99 | 93.3 | .044 | .28 |
| 5 | | | | | | - | | | - | - | | 9.05 398 | 2.66 | 3 13 | 54 | 89 80 | 11 | 103 9 | .049 | 29 |
| 6 | | | | | | _ | | - | | | | 310 | 265 | 348 | 70 29 | 80 | Ö | 960 | .045 | 37 38 |
| 7 - | | | | - | - | - | - | - | | - | | 8.54 | 2.61 | 9.05 | 27 | 67 45 | 3/ | 66.7 | -03/ | 38 |
| 9 | 01 | 120 | .70 | .25 | .80 | - 11 | .19 | 18 | .05 | .20 | 073 | 8.23 | 254 | 306 | 35 | 96 | 10 | 180 | .008 | 36 |
| 10 | . DC | | .10 | ,05 | 80 | - ' ' | .01 | .03 | .01 | 20 | 0 25 | 897 | 266 | 315 | 71 | 40 | 11 | 904 | 1012 | .41 |
| Η | .60 | .33 | | .15 | 40 | .08 | | | .03 | 10 | 0 27 | 899 | 250 | 3.41 | 7/ | 24 | 15 | 944 | 094 | .30 |
| 12 | .60 | 123 | ,00 | . 10 | a Phil | | | | 100 | 110 | 0 4/ | 7.08 | 261 | 4 29 | 28 | 67 | 15 | 1517 | .071 | .19 |
| 13 | 60 | .04 | | | | .08 | .01 | | - | | 0 09 | 364 | 2.51 | 3 25 | 76 98 39 57 | 3.4 3.7 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 | 13 | 1517 557 | .026 | .27 |
| 14 | .25 | | | | .50 | 04 | | | | .12 | 0.16 | 881 | 252 | 906 | 57 | 4.0 | 13 | 900 | .042 | -33 |
| 15 | | .02 | .10 | | | | .00 | 03 | | | 0.03 | 8 87 8 84 8 75 | 250 | 411 | 4.7 | 34 | 3/ | 914 | .043 | 30 |
| 16 | | | | | | | | | | | | 875 | 250 | 914 | 46 | 3.4 | 32 | 81.4 | .038 | 23 |
| 17 | 30 | | | - | | 03 | | | | | 003 | 870 | 247 | 3 74 | 97 | 26 | 23 | 566 | .03/ | .26 |
| 18 | .80 | 102 | .75 | 2 25 | - | .11 | .16 | .20 | 43 | | 090 | 9.07 | 2.50 | 314 | 96 | 26 3.4 | | 1104 | .052 | .28 |
| 19 | .55 | .11 | ,10 | .35° 25° | .12 | .68 | .16 | 2032 | 07 | 06 | 032 | 881 | 250 | 314 | 96 53 83 | 3.4 | 1/ | 674 | .0.32 | .14 |
| 20 | | . 11 | 45 | 25 | 12 | 2.7 | .02 | .12 | .02 | .03 | 022 | 904 | 252 | 3.63 | 83 | 90 | 21 33 58 | 1080 | .051 | .30 |
| 21 | .10 | .13 | 135 | .10 | 18 | .01 | .02 | 29 | 02 | 04 | 044 | 9 75 | 2.86 | 916 | 194 | 21 | 33 | 1980 | .093 | .12 |
| 22 | 135 | .83 | 110 | 45 | .35 | .c.s | .13 | 27 | .12 | .09 | 068 | 9 75 | 361 | 997 | 213 | 21 75 65 | 38 | 3940 | .163 | . 17 |
| 24 | | | | | | | | - | _ | | | 950 | 349 | 5 25 | 27/ | 65 | 115 | 751.0 | 212 | 24 |
| 25 | | | | - | 100 | | | | | | | 907 | 255 | 3.25 | 87 | 6.4 | 11 | 176 4 | .083 | |
| 26 | - | .30 | | - | | | .05 | | | | 0.05 | 842 | 2.56 | 3.16 | 67 | 98 | 11 | 83 / | .045 | 30 |
| 27 | | , | - | | | | | | | | 0.00 | 899 | 256 | 3/6 | 76 | 5.1 | 1/ | 92/ | ,043 | 25 |
| 28 | | | | | | | | | | | | | 257 | 316 | 69 | 54 | 10 | 244 | 090 | 20 |
| 29 | | | | | 1 | | | | | | | 874 | 257 257 | 3 18 | 51 | 54 | 10 | 66.4 | .03/ | 32 |
| 30 | | | | | | | | | | | | 843 | 261 | 319 | 16 | 6.7 | 10 | 32 7 | 1015 | .36 |
| 31 | | | | | | | | | | | | 884 | 2.65 | 3 22 | 61 | 80 | 11 | 20.0 | .038 | 33 |
| DTAL | 925 | 9.59 | 535 | 415 | 917 | .59 | 73 | 141 | .65 | 103 | 4.56 | _ | - | | 2.369.5 | 326.8 | 682.1 | 3.378.4 | 1586 | 858 |

| EPT IONTH | M I P | 2 A | GAGE 3 C | 4 0 | LL 5 R | 114% | 2 | GAGE | | LL | TOTAL WEIGHTED | MAIN CANAL | NORTH | SOUTH | MAIN | NORTH | SOUTH | TOTAL | TOTAL | PAN |
|--------------|-------------|--------|----------------|--------|--------------|------|------|-------|------|------|-------------------|---------------|------------------------------|----------------------|----------------------|----------|----------|------------|-------------------------|---------|
| 1 2 3 4 | P | 2 A | 3 C | 0 | | 14% | 2 | 3 | | | RAINFALL | UAMAL | RELIEF | RELIEF | CANAL | RELIEF | RELIEF | DISCHARGE | DISCHARGE | EVAP. |
| 3 4 | P | | | | 25 | 1976 | | 000 | Low | 5 | RAINFALL | | UANAL | GANAL | | DANAL | VARAL | | | |
| 3 4 | | | | | | | | NCHES | | 25% | (INCHES) | (FT. | M . S | L.) | - | SEC. FT. |) | (SEC. FT.) | (IN. OVER DISTRICT) | (INCHES |
| 3 4 | | - 1 | | 1 | | | | | | | | | 257 | | 30 | 59 | 11 | 464 | | 36 |
| 3 4 | | | - | 1 | | | - | - | | - | | 8 78 | 2.57 | 3.23 | 45 | 59 | 10 | 604 | .022 | 28 |
| | | 1 | .33 | - | | | | .09 | | | 009 | 228 | 257 | 3 25 | 95 | 54 | 10 | 85.4 | 1046 | 21 |
| 6 | | | | | | | | 1 = 1 | | | | 881 | 256 | 3.27 | 56 | 5 1 | 10 | 71.1 | . 6.33 | .24 |
| | | .60 | 22 | .55 | .15 | | .10 | 16 | .10 | 04 | 036 | 8.81 | 256 | 3 28 | 56 | 48 | 10 | 67.6 | .032 | . 3 1 |
| | 20 | .84 | 120 | 125 | 240 | 31 | .10 | .31 | .24 | 66 | 159 | 912 | 2 48 3 99 4 81 3.42 | 401 | 11/ | 11 | 68 | 1900 | .0-1 | 38 |
| 7 | | .04 | .08 | ,25 | 105 | | .01 | 02 | .45 | .26 | 0 34 | 1008 | 3.99 | 4 38 | 234 | 127 | 258 | 669.0 | .314 | 3.8 |
| 8 | | 47 | 220 | . 7.5 | .20 | | .08 | 57 | .14 | .05 | 0 64 | 9.82 | 481 | 5 75 | 22/ | 244 | 182 | 697.0 | .304 | .24 |
| 9 | - | | | _ | | | | - | | | | 9.54 | 3.42 | 3 75 | 190 | 78 | 184 | 452.0 | .2/2 | 2.9 |
| 10 | - | | _ | - | 7/ | | | - | | | 0.00 | 100 | 261 | 351 | 112 | 80 | 20 | 123 | .058 | -7 |
| 12 2. | 05 | 40.49 | | | . 25 | 20 | 1.5 | | - | .06 | 0 06 | 894 | 266 | 4 54 | 102 | 12 | 19 | 1670 | 061 | 31 |
| 13 | .03 | .97 | - | - | - | 27 | 16 | | - | | 0.45 | 9 09 | 281 | | 90 | 19 | 50 | 159.0 | .075 | 30 |
| 14 | - | - | | | .85 | | | | | .21 | 021 | 892 | 261 | 457 | 67 | 17 | 50 | 1280 | 060 | .20 |
| 15 4 | 45 | | .45 | | .05 | 06 | | .12 | | .01 | 2 19 | 890 | 263 | 4 63 | 67 | 00 | 0.4 | 127-2 | 060 | 20 |
| 16 | ,,, | | 350 | | 25 | | | .09 | | 06 | 0 15 | 890 | 262 | 466 | 64 | 94 | 5.5 | 1279 | ,060 | 32 |
| | 20 | 32 | 35 | | | .03 | .05 | 09 | .20 | .06 | 0 93 | 901 | 264 | 9 78 | 64 78 91 96 | 70,899 | 55 62 | 1279 | 070 | 26 |
| 18 | | | | 35 | | | - | , | .07 | Long | 007 | 9.10 | 261 | 9 79 | 91 | 8.9 | 62 | 1614 | .074 | .10 |
| 19 /. | 15 | 1.60 | 130 | 7.5 | 280 | 16 | .25 | 34 | 52 | 70 | 1.97 | 913 | 262 | 9 79 9 85 7.55 | 96 | 8.9 | 66 | 1709 | .080 | .08 |
| 20 | 60 | | | | .10 | 16 | | | .06 | 02 | 016 | 10 87 | 961 | 7.55 | 524 | 178 | 424 | 1126 | ,529 | . 7 |
| | 05 | .02 | | | | .01 | 00 | | | | 0.01 | 972 | 2.92 | 5 59 | 266 | 36 | 143 | 495 | ,209 | .10 |
| 22 | 25 | .27 | | 1501 | 555 | 09 | .20 | .47 | .28 | 76 | 142 | 9 72 | 236 | 5 22 | 210 | 10 52 | (, 4 | 384 | .157 | - 7 |
| 23 | 25 | 1.61 | .70 | | 95 | 03 | .26 | 118 | .10 | 24 | O 85 | 10 72 | 2236 | 7 13 | 975 | 52 | 358 | 555 | 416 | 23 |
| | | | | | 58/ | | 1.15 | 158 | 152. | | 691 | 1276 | 114 | 934 | 1,246 | 690 | -10 | 2940 | 1.352 | 23 |
| 25 | 35 | .53 | | .45 | 85 | .05 | .08 | .08 | .09 | 21 | 051 | 19 22 | 777 | 8.35 | 1,520 | 1290 | 1660 | 3.50 | 7217 | 2.3 |
| 27 | 12 . | | . 20 | | 40 | .02 | | 05 | | .16 | 0.17 | | 6.08 | 604 | 860 | 312 | 522 | 3.586 | .796 | 24 |
| 28 | - | - | | - | _ | | _ | | | _ | - | 10 55 | 9 28 | 4 55 | 422 | 126 | 244 | 792 | .372 | .15 |
| 29 | + | .03 | | + | | | 00 | | | -1 | 0.00 | 1004 | 3/7 | 3 92 | 273 | 23 | 151 | 507 | . 235 | 177 |
| 30 | | . 43 | | | | | 00 | | | | 0.00 | 972 | 320 | 3 62 | 200 | 83 | 11/ | 361 | .170 | 23 |
| 31 | | | - | | | | | | | | | 116 | 200 | | 200 | 00 | | 261 | | C 3 |
| TAL 14 | 190 | 5 49 | 1/31/ | 7961 | 010 | 209 | 247 | 2 72 | 241 | 052 | 16 22 | _ | | - | 9.705 | 4.292.9 | 7,25 | 21,132.9 | 9.930 | 101 |

PART II

Monthly Hydrologic Data

Upper Taylor Creek (W-2)

Upper Taylor Creek (W-3)

10/1/62 - 9/30/63

U.S.D.A. - AGRICULTURAL RESEARCH SERVICE - FORT LAUDERDALE, FLORIDA

COOPERATING WITH

CENTRAL AND SOUTHERN FLORIDA FLOOD CONTROL DISTRICT & UNIVERSITY OF FLORIDA, AGRICULTURAL EXPERIMENT STATION

MONTHLY HYDROLOGIC DATA UPPER TAYLOR CREEK WATERSHED

FLORIDA WATERSHED W-2 8 3

| Ε | | | | | | | | | RA | INFA | LL | | | | | | | AGE | | | CHARGE | | |
|---|-------|---------------|---------------|---|----------|------------|------|---|--|---|-------------------------------|-------|-------|-----|---|--|--|--|--|--|---|--|--|
| 5 | | M | EASU | RED I | RAINF | ALL | | | w | EIGHT | ED R | AINFA | LL | | TOTAL | TOTAL WEIGHTED | STATION | STATION | ARFA | TOTAL | AREA | AREA | 5 |
| TH | | | | GAGI | | | | | | | GAGE | | | | RAINFALL | RAINFALL | 2 3411311 | | 1000 | , consumer of | | | 1 |
| R | UB A | REA | 3 | 4 | | | 7 | SUB | AREA 2 | 3 | 4 | 5 | | 7 | AREA | AREA | | | | | | | Ł |
| ı | W | R | R | 1.7 | Ď | M | 0 | 9 % | 13% | 10% | | | | | | | | | | | 5 x 40018 | 6 X 005379 | |
| 4 | | | - (| INCHI | 180 | | | _ | 57% | - (| INCHE | 53 | - | | DNCHES) | (INCHES) | | M.S.L.) | | FT. | ON, OVER | | (15 |
| + | | | - | - | - | | | | 01 | - | - | | - | | | | 3.28 | 654 | -6 | 4.8 | -001 | 002 | - 4 |
| - | _ | | | | | | | | .02 | | | | | | | | 3/27 | 6.57 | .60 | 4.8 | | 002 | |
| | - | | | - | | | | .01 | .01 | | 41 | | | - 4 | | | 3.25 | 6.50 | - 5 | 4.7 | 001 | .002 | - |
| - | as . | .05 | .03 | -00 | 05 | .05 | | - | | .01 | 101 | 01 | .01 | 01 | 0.05 | 0.07 | 3.24 | 6.64 | 15 | 4.9 | -001 | 003 | |
| | | | | | | | | | | | | | - | 2 | | | 3-22 | 6.40 | 0.0044 | 7.2 | .001 | 003 | - |
| | 05 | 05 | 12 | 10 | .10 | 18 | 15 | - | - | :01 | 01 | 41 | 03 | .03 | 0.05 | 0.11 | 3244 324 324 324 321 333 333 333 333 333 333 333 333 333 | 6.54 | -4 | 7.6 | .001 | .003 | |
| | vu. | 100 | | 4.4 | 100 | | 110 | | | | 100.5 | - | | | 0.00 | | 3.22 | 629 | -4 | 8.1 | 051 | .003 | 4 7 3 |
| - | | | - | - | - | - | | | | | | - | - | | | | 3.20 | 6.40 | 4 | 8.4 | 001 | 003 | 7 |
| | | | | | | | | | | | | | | | | | 3.79 | 5.97 | 4 | 8.2 | .001 | .003 | 1.2 |
| | | | | | | | | | | | | | | | | | 3.18 | 6497 6497 5497 6497 | 9000 | 8.9 | -001 | .003 | - |
| | | - | - | - | | - | | 200 | 25-3 | | | | - | - | | | 318 | 6.37 | 3 | 9.0 | 001 | 003 | |
| | | | | | | | | .07 | .03 | | | | | | | | 3.19 | 6.34 | .4 | 9.2 | 001 | 003 | - |
| | | | - | | - | | - | .02 | 09 | | | | | | | | 클렸 | 33333333 | 4 | 9.3 | .001 | 003 | |
|) | | - | - | - | + | | | 04 | .03 | | | | | | | | 3.20 | 6.84 | 12 | | -001 | 0004 | |
| | | | | | | | | | - | | | | | | | | 3.19 | 6.35 | .4 | 9.7 | 100 | 403 | -1 |
| H | | - | - | | | | | | | | | | | | | | 100 mmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmm | 9999 | Adamina | 9.0 | 00/ | 003 | 0 |
| 1 | 20 | .15 | -08 | 20 | .03 | .10 | Ola | | | 01 | .03 | .00 | .02 | -02 | 0.18 | 0.12 | 5.17 | 6.88 | - 3 | | 00/ | 003 | 200 |
| | | | .02 | | | + | | - | - | .00 | | | - | - | | 0.00 | 3.19 | G.41 G.89 G.82 | 14 | 8.5 | 001 | 003 | - |
| | | | | | | | | | | | | | | | | | 9.19 | G-B2 | . 4 | 8.4 | .001 | 00 4 | |
| 1 | | | | - | - | | - | - | 1 | | - | | | - | | | LB / /89 | 50-6 | quinn | 8.2 | 50/ | 603 | 13 |
| | 10 | .05 | .02 | .02 | | 05 | | | | | .00 | | .01 | | 0.07 | 0.03 | 3.18 | A 100 C | .3 | 7.8 | 1 | 603 | |
| | | | | | | | | | .05 | | | | | | 0.35 | 0.36 | 3.16 | 5,9% | .3 | 244.3 | .029 | 290 | 12 |
| E | | | | | F) | | | | RA | INFA | LL | | | | | | | AGE | | | HARGE | | |
| / He | | | ASUF | GAGE | LAINFA | LL | + | | WI | EIGHTI | | AINFA | LL | | TOTAL WEIGHTED RAINFALL | RAINFALL | UPPER STATION | LOWER | SUB AREA | TOTAL AREA | HARGE SUB AREA | TOTAL AREA | E |
| / He | UB A | | ASUF | | LAINFA | LL 6 | 7 | SUB | AREA | EIGHTI | ED R | AIMFA | 6 | 7 | WEIGHTED | WEIGHTED | UPPER | LOWER | | TOTAL | SUB | AREA | |
| 7 H 3 W | UB A | | 3 R | GAGE | AINFA | LL & | -0 | 9 % | AREA 2 | 5 10% | GAGE | 5 | 6 | | WEIGHTED RAINFALL SUB AREA | RAINFALL ENTIRE AREA | UPPER | LOWER | AREA | TOTAL | SUB AREA | AREA | E |
| 7 H 3 W | 1 | REA 2 | 3 R | GAGE 4 | AINFA | | | 9 % 45% | WI AREA 2 13 % | 5 10% | GAGE 4 | 5 | 6 | | RAINFALL SUB | RAINFALL ENTIRE | UPPER | LOWER STATION | AREA (SEC. | TOTAL AREA | SUB AREA AREA | AREA AREA) | E (IN |
| 7 H 3 W | 1 | REA 2 | 3 R | GAGE | AINFA | | | 9 % 43% .02 .02 | WI AREA 2 3% 57% | 3 10 % | GAGE | 5 | 6 | | WEIGHTED RAINFALL SUB AREA | RAINFALL ENTIRE AREA | UPPER | LOWER STATION | AREA (SEC. | FT.) | SUB AREA | AREA) | (IN |
| 7 H 3 W | 1 | REA 2 | 3 R | GAGE | AINFA | | | 9 % 43% .02 .02 | AREA 2 13 % 57 % 02 01 | 3 10 % | GAGE | 5 | 6 | | WEIGHTED RAINFALL SUB AREA | RAINFALL ENTIRE AREA | UPPER | LOWER STATION | AREA (SEC. | FT.) | SUB AREA AREA | AREA) | (IN |
| 7 H 3 W | 1 | REA 2 | 3 R | GAGE | AINFA | | | 9 % 43% .02 .02 .01 .02 | WI AREA 2 13% 07% 02 .03 | 3 10 % | GAGE | 5 | 6 | | WEIGHTED RAINFALL SUB AREA | RAINFALL ENTIRE AREA | UPPER | LOWER STATION | AREA (SEC. | FT.) | SUB AREA AREA | AREA AREA) | E C |
| THE SECOND | 1 | REA R B | 3 R | GAGE 4 J NCHE | S S | e M | 0 | 9 % 43% .02 .02 .01 .02 | AREA 2 13 % 57 % 02 01 | 3 10% (J | GAGE 4 15% NOHE | 5 12% | 6 18% | 23% | WEIGHTED RAINFALL SUB AREA DNGHES) | WEIGHTED RAINFALL ENTIRE AREA (INCHES) | UPPER | LOWER STATION | AREA (SEC. | 77.4 77.4 7.4 7.4 7.4 7.4 | SUB AREA AREA | AREA AREA) | (IN |
| THE SECOND | 1 | REA R B | 3 R | GAGE 4 J NCHE | AINFA | e M | 0 | 9 % 43% .02 .02 .01 .02 | WI AREA 2 13% 07% 02 .03 | 3 10% (J | GAGE 4 15% NOHE | 5 12% | 6 18% | | WEIGHTED RAINFALL SUB AREA DNGHES) | RAINFALL ENTIRE AREA | UPPER | LOWER STATION | AREA (SEC. | 77.4 77.4 7.4 7.4 7.4 7.4 | SUB AREA AREA | AFEA) | (IN |
| THE SECOND | 1 | REA R B | 3 R | GAGE 4 J NCHE | S S | e M | 0 | 9 % 43% .02 .02 .01 .02 | WI AREA 2 13% 07% 02 .03 | 3 10% (J | GAGE 4 15% NOHE | 5 12% | 6 18% | 23% | WEIGHTED RAINFALL SUB AREA DNGHES) | WEIGHTED RAINFALL ENTIRE AREA (INCHES) | UPPER | LOWER STATION | AREA (SEC. | 77.4 77.4 7.4 7.4 7.4 7.4 | SUB AREA STOOM ON OVER | AREA AREA) .003 .003 .003 .002 .002 .002 .002 .002 | (B) |
| THE SECOND | 1 | REA R B | 3 R | GAGE 4 J NCHE | S S | e M | 0 | 9 % 43% .02 .02 .01 .02 | WI AREA 2 13% 07% 02 .03 | 3 10% (J | GAGE 4 15% NOHE | 5 12% | 6 18% | 23% | WEIGHTED RAINFALL SUB AREA DNGHES) | WEIGHTED RAINFALL ENTIRE AREA (INCHES) | (FT. S. 15 14 12 11 11 14 14 14 14 14 14 14 14 14 14 14 | 4.5.L) 4.08 4.67 5.407 6.407 6.412 4.424 4.12 | AREA ISSUED DISCOVER DE LA COLOR DE LA COL | 77.4 4 4 4 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 6 | SUB AREA SI SOIN SON OVER | AREA APEA) .C. 3 .O. 3 .O. 2 .O. | (B) |
| THE SECOND | 1 | REA R B | 3 R | GAGE 4 J NCHE | S S | e M | 0 | 9 % 43% .02 .02 .01 .02 | WI AREA 2 13% 07% 02 .03 | 3 10% (J | GAGE 4 15% NOHE | 5 12% | 6 18% | 23% | WEIGHTED RAINFALL SUB AREA DNGHES) | WEIGHTED RAINFALL ENTIRE AREA (INCHES) | (FT. S. 15 14 12 11 11 14 14 14 14 14 14 14 14 14 14 14 | 4.5.L) 4.08 4.67 5.407 6.407 6.412 4.424 4.12 | AREA (SEC. | 77.4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | SUB AREA 1 - DITH ON OVER - COT - | AREA (CO.3 (CO | E CONTRACTOR |
| /H 3. w | 20 | REA B | 3 R U | GAGE 4 NCHE | D 30 | .18 | 0 20 | 9 % 43% .02 .02 .01 .02 | WI AREA 2 13% 07% 02 .03 | 3 10% () | GAGE | 12% | 03 | 23% | WEIGHTED RAINFALL SUB AREA (INCHES) | WEIGHTED RAINFALL ENTIRE AREA (INCHES) | (FT. 554 2 2 1 1 1 1 4 5 4 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | # 5.L) 6.08 6.10 6.07 5.41 6.07 6.07 6.07 6.07 6.07 6.07 6.07 6.07 | AREA ISSO MINING CONTROL MINING CONTROL | 77.44.856.7567.8644 | SUB AREA SN. OVER CO. I | AREA 41 MINIM AREA CC 2 CC | (IN C. 1) |
| 3 9 | 20 | REA B | 3 R U | GAGE 4 NCHE | S S | .18 | 0 20 | 9 % 43% .02 .02 .01 .02 .01 | WII AREA 2 2 18% 18% 18% 18% 18% 18% 18% 18% 18% 18% | 3 10% () | GAGE | 12% | 03 | 23% | WEIGHTED RAINFALL SUB AREA (INCHES) | WEIGHTED RAINFALL ENTIRE AREA (INCHES) | (FT. 554 2 2 1 1 1 1 4 5 4 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | # 5.L) 6.08 6.10 6.07 5.41 6.07 6.07 6.07 6.07 6.07 6.07 6.07 6.07 | AREA DESCRIPTION OF THE PROPERTY OF THE PROPER | TOTAL AREA FT. 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 | 3UB AREA 6N. OVER 00.00 00. | AREA AREA) .C. 2 .G. | (IS |
| 3 0 | 20 | REA B | 3 R U | GAGE 4 NCHE | D 30 | .18 | 0 20 | 9 % 43% .02 .02 .01 .02 .01 | WII AREA 2 2 18% 18% 18% 18% 18% 18% 18% 18% 18% 18% | 3 10% | GAGE | 12% | 03 | 23% | WEIGHTED RAINFALL SUB AREA ONCHES) | WEIGHTED RAINFALL ENTIRE AREA (INCHES) | (FT. 8.154 (FT. 8.154 (FT. 114 | 4.5.L) 4.08 4.19 | AREA ISSO MINING CONTROL MINING CONTROL | 77.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 | SUB AREA S. SHIM S. | AREA AREA .C.C.3 .G | (B) |
| 3 9 | 20 | REA B | 3 R U | GAGE 4 NCHE | D 30 | .18 | 0 20 | 9 % 43% .02 .02 .01 .02 .01 | WII AREA 2 2 18% 18% 18% 18% 18% 18% 18% 18% 18% 18% | 3 10% | GAGE | 12% | 03 | 23% | WEIGHTED RAINFALL SUB AREA ONCHES) | WEIGHTED RAINFALL ENTIRE AREA (INCHES) | (FT. 8.154 (2.11) (4.14) (4.15 | 4.5.L) 4.08 6.13 4.61 5.49 6.12 6.12 6.12 6.12 6.13 6.20 6.21 6.20 6.21 6.20 6.21 6.20 6.20 | AREA TOTAL OF THE PROPERTY OF | 77.4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 3UB AREA 1 : 20199 ON OVER 201 001 001 001 001 001 001 | AREA AREA) .C. 2 .G. | The second secon |
| 3 | 20 | REA B | 3 R U | GAGE 4 NCHE | D 30 | .18 | 0 20 | 04 09 09 09 | WIT AREA 2 2 3 % 07 % 03 02 01 01 01 01 01 01 01 01 01 01 01 01 01 | 0 10 % | GAGE | 12% | 03 | 23% | WEIGHTED RAINFALL SUB AREA ONCHES) | WEIGHTED RAINFALL ENTIRE AREA (INCHES) | (FT. 8.15 1.14 8.17 1.14 8 | 4.5.L) 4.08 6.13 4.61 5.49 6.12 6.12 6.12 6.12 6.13 6.20 6.21 6.20 6.21 6.20 6.21 6.20 6.20 | AREA TOTAL OF THE PROPERTY OF | TOTAL AREA 7.7.4.4.4.4.4.7.4.4.4.4.4.4.4.4.4.4.4. | 3UB AREA 1 - SHIM (IN. OVER - CO - CO | AREA 47 200 100 100 100 100 100 100 100 100 100 | The second of th |
| 33.00 | 20 | 25 .15 | .20 | OAGE J NCHE | D 30 | .18 | 35 | 04 09 09 09 | WII AREA 2 2 18% 18% 18% 18% 18% 18% 18% 18% 18% 18% | 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | GAGE | 02 | 03 | 05 | WEIGHTED RAINFALL SUB AREA ONCHES) | WEIGHTED RAINFALL ENTIRE AREA (INCHES) | (FT. 51-4-12) 11-4-12-12-12-12-12-12-12-12-12-12-12-12-12- | 4.5.L) 4.08 6.13 4.61 5.69 6.13 6.13 6.13 6.13 6.13 6.13 6.13 6.13 | AREA DECEMBER OF THE PROPERTY | TOTAL AREA 77.4 0.50.1.79.4.7.0.5.4.4.4.0.0.5.1.1.0.1.0.1.0.1.0.1.0.1.0.1.0.1.0 | 3UB AREA 1 : 20199 ON OVER 201 001 001 001 001 001 001 | AREA APEA (CC 3 APEA) (CC 3 APEA) (CC 3 APEA (CC | (IN C 1 4 1 C C C C C C C C C C C C C C C C |
| | 20 | 25 .15 | .20 | OAGE J NCHE | 20 23 | .18 | 35 | 04 09 09 09 | WIT AREA 2 2 3 % 07 % 03 02 01 01 01 01 01 01 01 01 01 01 01 01 01 | 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | ed R. Gage 4 15% Nohe | 02 | 03 | 05 | WEIGHTED RAINFALL SUB AREA (INCHES) | WEIGHTED RAINFALL ENTIRE AREA (INCHES) | (FT. 51-4-12) 11-4-12-12-12-12-12-12-12-12-12-12-12-12-12- | 4.5.L) 4.08 6.13 4.61 5.69 6.13 6.13 6.13 6.13 6.13 6.13 6.13 6.13 | AREA ISSO MERCENCION MAINTANA AND AND AND AND AND AND AND AND AND | TOTAL AREA 7.7.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4. | 3UB AREA 6N. OVER | AREA AREA 003 003 003 002 002 002 002 002 | (IN C 1 4 1 C C C C C C C C C C C C C C C C |
| 3 9 9 | 20 | 25 .15 | .20 | OAGE J NCHE | 20 23 | .18 | 35 | 04 09 09 09 | WIT AREA 2 2 3 % 07 % 03 02 01 01 01 01 01 01 01 01 01 01 01 01 01 | 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | ed R. Gage 4 15% Nohe | 02 | 03 | 05 | WEIGHTED RAINFALL SUB AREA (INCHES) | WEIGHTED RAINFALL ENTIRE AREA (INCHES) | (FT. 51-14-12) 114-14-14-15-14-15-14-15-15-15-15-15-15-15-15-15-15-15-15-15- | 4.5.12 4.08 4.07 | AREA DECEMBER DECEMBER DE LA COMPANSION | TOTAL AREA T. 4 4 8 9 6 7 7 8 4 7 8 4 4 4 4 8 9 0 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 3UB AREA 1 1 20198 ON OVER 201 201 201 201 201 201 201 201 | AREA AREA 003 003 002 002 002 002 002 002 | The second secon |
| 7 H | 20 | 25 .25 | 3 R ,20 | GAGE 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 20 23 36 | .18 .18 | 35 | 04 09 09 09 | WIT AREA 2 2 3 % 07 % 03 02 01 01 01 01 01 01 01 01 01 01 01 01 01 | 02 03 | ED RI GAGE 193 NOHE: | 02 | 03 | 08 | WEIGHTED RAINFALL SUB AREA (MOHES) | MEDITED RAINFALL ENTIRE AREA (INCHES) | (FT. 8.154 | 4.5.12 4.08 4.07 | AREA MORE CONTRACTOR MANAGEMENT AND | TOTAL AREA | 3UB AREA 1 - SHIM ON OVER - CO I - | AREA AREA CO 2 CO | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| 7 1 3 1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 20 | 25 .25 | 3 R ,20 | GAGE 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 20 23 | .18 .18 | 35 | 04 09 09 09 | WIT AREA 2 2 3 % 07 % 03 02 01 01 01 01 01 01 01 01 01 01 01 01 01 | 02 03 | ED RI GAGE 193 NOHE: | 02 | 03 | 08 | WEIGHTED RAINFALL SUB AREA (INCHES) | WEIGHTED RAINFALL ENTIRE AREA (INCHES) | (FT. 514 (21) 114 (41 | 4.5.12 6.08 6.07 5.49 6.12 | AREA DECEMBER DECEMBER DE DECEMBER DE LA COMPANION DE LA COMPA | TOTAL AREA 7.7.4.1.8.5.6.7.7.4.7.4.6.4.4.4.4.0.0.6.1.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6 | 3UB AREA 1 : NHW ON OVER | AREA APEA (CC 3 CC 2 CC 2 | The state of the s |
| | 20 | 25 .25 | 3 R ,20 | GAGE 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 20 23 36 | .18 .18 | 35 | 04 09 09 09 | WIT AREA 2 2 3 % 07 % 03 02 01 01 01 01 01 01 01 01 01 01 01 01 01 | 02 03 | ED RI GAGE 193 NOHE: | 02 | 03 | 08 | WEIGHTED RAINFALL SUB AREA (MOHES) | MEDITED RAINFALL ENTIRE AREA (INCHES) | (FT. 51-4-21) 114-4-3-1-3-1-3-1-3-1-3-1-3-1-3-1-3-1-3- | 4.5.U 6.08 6.13 6.07 5.49 6.12 6.12 6.12 6.12 6.12 6.12 6.20 6.21 6.20 6.21 6.23 6.00 6.14 6.20 6.21 6.21 6.22 6.23 6.00 | AREA MORE CONTRACTOR AND | TOTAL AREA 7.7.4.4.4.4.7.5.6.7.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4 | 3UB AREA 1 - SHIM (IN. OWER - CO I - CO I | AREA AREA (CC3 (CC3 (CC2 | IN COLUMN |
| 7 | 20 25 | 25 .25 | 3 R ,20 | GAGE 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 20 23 36 | .18 .18 | 35 | 04 09 09 09 | WIT AREA 2 2 3 % 07 % 03 02 01 01 01 01 01 01 01 01 01 01 01 01 01 | 02 03 | ED RI GAGE 193 NOHE: | 02 | 03 | 08 | WEIGHTED RAINFALL SUB AREA (MOHES) | MEDITED RAINFALL ENTIRE AREA (INCHES) | (FT. 51-4-21) 114-4-3-1-3-1-3-1-3-1-3-1-3-1-3-1-3-1-3- | 4.5.U 6.08 6.13 6.07 5.49 6.12 6.12 6.12 6.12 6.12 6.12 6.20 6.21 6.20 6.21 6.23 6.00 6.14 6.20 6.21 6.21 6.22 6.23 6.00 | AREA MORE CONTRACTOR AND | TOTAL AREA 7.7.4.4.4.4.7.5.6.7.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4 | 3UB AREA 1 - SHIM (IN. OWER - CO I - CO I | AREA APEA (CC 3 APEA) (CC 3 APEA) (CC 3 APEA (CC | IN COLOR OF THE PARTY OF THE PA |
| | 20 25 | 25 .25 | 3 R ,20 | GAGE 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 20 23 36 | .18 .18 | 35 | 04 09 09 09 | WIT AREA 2 2 3 % 07 % 03 02 01 01 01 01 01 01 01 01 01 01 01 01 01 | 02 03 | ED RI GAGE 193 NOHE: | 02 | 03 | 08 | WEIGHTED RAINFALL SUB AREA (MOHES) | MEDITED RAINFALL ENTIRE AREA (INCHES) | (FT. 83.144. 83.154. 14.154. 14.154. 14.154. 14.154. 14.154. 14.154. 15.154. 1 | 4.5.U 6.08 6.13 6.07 5.49 6.12 6.12 6.12 6.12 6.12 6.12 6.20 6.21 6.20 6.21 6.23 6.00 6.14 6.20 6.21 6.21 6.22 6.23 6.00 | AREA MORE CONTROL MINISTER MANAGEMENT CONTROL OF THE CONTROL OF TH | TOTAL AREA 7.7.4.1.8.5.6.7.7.4.7.4.6.4.4.4.4.0.0.6.1.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6 | 3UB AREA 1 - SHIM (IN. OWER - CO I - CO I | AREA AREA CO 2 CO | |

CENTRAL AND SOUTHERN FLORIDA FLOOD CONTROL DISTRICT & UNIVERSITY OF FLORIDA, AGRICULTURAL EXPERIMENT STATION

MONTHLY HYDROLOGIC DATA UPPER TAYLOR CREEK WATERSHED

FLORIDA WATERSHED W-2 8 3

| ATE | | | | | | | | | RA | INFA | LL | | | | | | 51 | AGE | | DISC | CHARGE | | |
|--|--|--|--|---|--|---------------------------------|----------------------------------|--|---|--|---|------------------------|--------------|-------|---|---|--|---|-------------|---|--|--|---|
| PR | | м | FASUI | RED I | AINFA | LL | | I | W | EIGHT | ED R | AINFA | LL | | TOTAL | TOTAL | | LOWER | | TOTAL | SUB | TOTAL | EV. |
| HTMO | | | - | - | 411 | - | | | - | - | | | | | WEIGHTED RAINFALL | WEIGHTED | STATION | STATION | AKEA | AREA | AREA | AREA | EA |
| 63 | SUB / | AREA | | GAGE | | | | SUB | AREA | | GAGE | | | | SUB | ENTIRE | | | | | | | |
| EAR | 1 | 2 | 3 | 4 | 5 | 6 | 7 | -1 | 2 | 3 | 4 | 5 | 6 | 7 | AREA | AREA | | | | | Q 1 QC238 | Q 1 .000376 | 1 |
| | \vdash | - | 1 | INCHE | R) | | - | | 67% | | INCHE | | 18% | 23% | (INCHES) | (INCHES) | (FT. | M.S.L.) | (SEC. | FT.) | (IN. OVER | AREA) | (INC |
| | _ | - | | 11.1.1. | 100 | | | 100 | .06 | | 1 | - | | | | | 3.07 | 5.77 | .2 | 3.4 | .001 | .001 | .10 |
| 2 | | - | | | | | | | .05 | | | | | | | | 3.08 | 5.85 | .2 | 3.0 | 001 | 601 | .2 |
| 3 | | | | | | | - | - | - | - | ļ | - | - | _ | | | 3.06 | 5.90 5.91 5.92 | 2 | 2.7 | .001 | .001 | 2 |
| 5 | - | - | - | | | - | | | - | | + | + | | | | | 2.97 | 5.97 | 1 | 2.5 | 001 | 001 | 2 |
| 6 | | | | | | - | | | | 1 | | | | | | | 2.94 | 6.00 | .1 | 25 | / | 001 | -11 |
| 7 | | | 1 | | | | | | | | | | | | | | 2.90 | 6.04 | - 1 | 2.5 | (| 001 | . 2 |
| 8 | - | - | 700 | - | _ | - | | - | - | - | - | | | | | | 2.52 | 5.90 | 1 | 2.5 | 1 | 001 | 2 |
| 0 | - | | | | - | | | | | - | - | | - 1 | | | | 2.79 | 5.91 5.92 6.04 5.80 5.90 | | 3.0 | 1 | 001 | 2 |
| Ļ | | | | | | | | | | | - | | | | | | 2.74 | 5.22 | 1 | 3.0 | 4 | 00/ | 5 |
| 2 | | | - | - | | - | | - | - | - | | - | + - | | | | 2.62 | 5.65 | 1 | 3.0 | 1 | 001 | 2 |
| 4 | - | | - | - | | | | | - | - | 1 | | | | - | | 2.56 | 5.43 | | 2.9 | / | 001 | . 2 |
| 8 | | | | | | | | | 2 | | \perp | Ţ | - | | | | 2.56 | 5,56 | 4.1 | 2,8 | 1 | 001 | .2 |
| 7 | - | - | | | - | | | | 23 | | + | - | - | | | | 2.38 | 5.64 | 1 | 2.7 | + | 001 | 2 |
| 8 | | + | | + | - | | | .11 | 4.5 | _ | + | - | 1 1 | | | | 2.32 | 5.62 | 1 | 25 | 1 | .001 | . 2 |
| 9 | | | | | | | | | | | - | | | | | | 2.24 | 5.58 | 1 | 2.5 | 1 | -001 | 2 |
| 0 | - | - | - | | - | | - | - | - | + | - | - | - | | | | 2.24 | 5 - 8 | 1 | 2.4 | 7 | 001 | N. A. |
| 2 | | - | | | | | | 1- | 1 | - | - | - | - | - | | | 2.13 | 5.57 | 1 | 7.2 | 1 | 001 | - 4 |
| 3 | | | | | | | | | | - | | | | | | | 2.00 | 5.45 | 1 | 2.2 | | 001 | 2 |
| | 47 | 50 | 50 | 00 | 85 | 25 | 24 | | - | 45 | 1 2 | .10 | 06 | 07 | 0.46 | 0.50 | 2.00 | | 1 | 2.2 | 1 | 001 | . 3 |
| 6 | 172 | 30 | -30 | RO | .85 | .32 | 30 | - | - | ,03 | -14 | .70 | u(a | 07 | 0.716 | 0, 30 | 2.00 | 5.30 | 1 | 7.7 | 1 | 001 | J |
| 7 | | | | | | | | | | | | | | | | | 1.97 | 5.25 | 1 | 2.8 | 1 | 001 | 2 |
| | | _ | | | | | | | | - | - | - | - | - | | | 1.92 | 2.21 | / | 2.9 | 1 | 001 | 2 |
| 29 | 25 | 40 | 38 | 45 | - | | .30 | - | - | A 4 | 1.07 | - | + | 07 | 0 34 | 025 | 1.86 | 5.35 | 1 | 2.9 | 1 | 001 | 2 |
| 0.0 | | 12.75 | 313 | 7.1 | _ | - | | | | | , , | | | - | | | | | | | | | _ |
| 31 | | 90 | 98 | 125 | 25 | 35 | 60 | -0% | 11 | 09 | 19 | .10 | 0/2 | 14 | 0.80 | 0.75 | | | 1.8 | 80.6 | .004 | .030 | 17 |
| TAL | | .90 | 28 | .78 | 85 | 35 | 60 | 1.29 | , ,51 | INFA | | .10 | 06 | 14 | 0.80 | 075 | ST | AGE | 1.8 | | HARGE | 030 | |
| TAL | | | _ (| 78 | 85) | | 60 | 1.29 | ,.51 RA | INFA | LL | AINFA | | 14 | TOTAL | TOTAL | UPPER | LOWER | SUB | DISC | HARGE | TOTAL | P |
| TAL TE | | | _ (| 78 |) LAINFA | | - 60 | 29 | ,.51 RA | INFA | LL ED R | AINFA | | 14 | TOTAL WEIGHTED | TOTAL WEIGHTED | UPPER | | | DISC | HARGE | g JULY 195 | P |
| TAL AY NYH | | и | _ (| 78 |) IAINFA | | 60 | /.29 | RA WI | INFA | LL ED R GAGE | AINFA | LL | | TOTAL WEIGHTED RAINFALL SUB | TOTAL WEIGHTED RAINFALL ENTIRE | UPPER | LOWER | SUB | DISC | HARGE | TOTAL | P |
| TAL TE NTH | 67 SUB / | MAREA | EASU/ | 78 |) AINFA | LL 6 | 7 | 3UB | RA WI AREA 2 | INFA EIGHT | LL ED R GAGE | AINFA | LL 6 | 7 | TOTAL WEIGHTED RAINFALL | TOTAL WEIGHTED RAINFALL | UPPER | LOWER | SUB | DISC | HARGE SUB AREA | TOTAL AREA | P |
| TE VITH | 67 | и | EASUI R | 78 | AINFA | | 3 | 3UB | RA WI AREA 2 | INFA | ED R | AINFA | LL | 7 | TOTAL WEIGHTED RAINFALL SUB AREA | TOTAL WEIGHTED RAINFALL ENTIRE AREA | UPPER | LOWER | SUB | DISC TOTAL AREA | HARGE SUB AREA | TOTAL AREA | PEV |
| TE YMA | 67 SUB | AREA 2 B | EASUI R | GAGE | AINFA | LL 6 | 70 | SUB 1 9 % 43 % .04 | 7.57 RA WI AREA 2 13% | INFA | ED R | AINFA 5 | 6 18% | 7 | TOTAL WEIGHTED RAINFALL SUB | TOTAL WEIGHTED RAINFALL ENTIRE | UPPER | LOWER | SUB | DISC TOTAL AREA | HARGE SUB AREA | TOTAL AREA | P EV |
| TE Y | 67 SUB 1 | AREA 2 H | BASUI | GAGE | S) | 6 M | .35 | 9 % 43% | AREA 2 13% .05 | INFA | ED R GAGE | 5 12% 9) | 6 18% | 7 23% | TOTAL WEIGHTED RAINFALL SUB AREA (INCHES) | TOTAL WEIGHTED RAINFALL ENTIRE AREA (INCHES) | (FT. | M.S.L.) | SUB | DISC TOTAL AREA | HARGE SUB AREA | TOTAL AREA | P. EV |
| TE VITH | 67 SUB 1 | AREA 2 H | BASUI | GAGE | AINFA | 6 M | .35 | SUB 9 % 43% | AREA 2 3% 57% | INFA | ED R GAGE | 5 12% 9) | 6 18% | 7 23% | TOTAL WEIGHTED RAINFALL SUB AREA | TOTAL WEIGHTED RAINFALL ENTIRE AREA (INGHES) | (FT. 1.86 1.40 2.04 | M.S.L.) 5.20 4.96 | SUB | DISC TOTAL AREA | HARGE SUB AREA | TOTAL AREA EX 000376 AREA) OO / OO / | P. EV |
| TE Y | 67 SUB 1 | AREA 2 H | BASUI | GAGE | S) | 6 M | .35 | 129 133 101 101 | AREA 2 3% 57% .05 .16 .05 | INFA | ED R GAGE | 5 12% 9) | 6 18% | 7 23% | TOTAL WEIGHTED RAINFALL SUB AREA (INCHES) | TOTAL WEIGHTED RAINFALL ENTIRE AREA (INCHES) | (FT. 1.86 1.40 2.04 2.46 | M.S.L.) 5.20 4.96 | SUB | DISC TOTAL AREA | HARGE SUB AREA | TOTAL AREA | P EV |
| TE Y | 67 SUB 1 | AREA 2 H | BASUI | GAGE | S) | 6 M | .35 | 129 133 101 101 | AREA 2 3% 57% .05 .16 .05 | INFA | ED R GAGE | 5 12% 9) | 6 18% | 7 23% | TOTAL WEIGHTED RAINFALL SUB AREA (INCHES) | TOTAL WEIGHTED RAINFALL ENTIRE AREA (INCHES) | (FT. 1.86 1.40 2.04 2.46 2.60 2.64 | M.S.L) 5.20 4.96 4.89 5.01 | SUB | DISC TOTAL AREA | HARGE SUB AREA | TOTAL AREA LE DOOLTE AREA DO I OO I OO I OO I | P. EV |
| TE Y | 67 SUB 1 | AREA 2 H | BASUI | GAGE | S) | 6 M | .35 | 9 1 13 1 10 10 10 10 10 10 10 10 10 10 10 10 1 | AREA 2 57% - 05 - 05 - 05 - 05 - 05 - 05 - 05 - 0 | INFA | ED R GAGE | 5 12% 9) | 6 18% | 7 23% | TOTAL WEIGHTED RAINFALL SUB AREA (INCHES) | TOTAL WEIGHTED RAINFALL ENTIRE AREA (INCHES) | (FT. 866 1.40 2.46 2.64 2.65 | M.S.L) 5.20 4.96 4.89 5.01 | SUB AREA | DISC TOTAL AREA FT.1 3.77 3.77 3.77 2.55 2.20 | HARGE SUB AREA | TOTAL AREA AREA OO I OO I OO I OO I OO I | P. EV |
| TE YOUR SAR | 67 SUB 1 | AREA 2 H | BASUI | GAGE | S) | 6 M | .35 | 9 % 43 % | RA WI AREA 2 57% - 05 - 05 - 05 - 05 - 05 - 05 - 05 - 0 | INFA | ED R GAGE | 5 12% 9) | 6 18% | 7 23% | TOTAL WEIGHTED RAINFALL SUB AREA (INCHES) | TOTAL WEIGHTED RAINFALL ENTIRE AREA (INCHES) | (FT. 1.86 1.40 2.04 2.46 2.65 2.64 2.65 2.64 | M.S.L.) 5.20 4.89 1.5.10 5.337 | SUB AREA | DISC TOTAL AREA | HARGE SUB AREA | TOTAL AREA AREA AREA OO I OO I OO I OO I OO I | P. EV |
| TE YTH 3 | 67 SUB 1 | AREA 2 H | BASUI | GAGE | S) | 6 M | .35 | 9 % 43 % | AREA 2 57% - 05 - 05 - 05 - 05 - 05 - 05 - 05 - 0 | INFA | ED R GAGE | 5 12% 9) | 6 18% | 7 23% | TOTAL WEIGHTED RAINFALL SUB AREA (INCHES) | TOTAL WEIGHTED RAINFALL ENTIRE AREA (INCHES) | (FT. 1.866 1.400 2.604 2.605 2.604 2.605 2.604 2.605 2.604 2.605 | M.S.L.) | SUB AREA | DISC TOTAL AREA FT. 1 3.77 3.77 3.77 2.20 1.99 1.8 | HARGE SUB AREA | TOTAL AREA 4 x 000176 AREA 00 00 00 00 00 00 00 00 | P. EV |
| TE YTH 3 | 908 I | MAREA 2 F | 3 R .40 | GAGE GAGE JINGHE | 3) 3) .35 | 6 M | 35 | 9 \$ 43 \$.00 .01 .01 .01 .05 | RA WI AREA 2 57% - 05 - 05 - 05 - 05 - 05 - 05 - 05 - 0 | 3 10% -04 | ED R GAGE | 5 12% 5) | 6 18% | 7 23% | TOTAL WEIGHTED RAINFALL SUB AREA (INCHES) 0 37 | TOTAL WEIGHTED RAINFALL ENTIRE AREA (INGHES) 0 35 | (FT. 1.866 1.400 2.604 2.605 2.604 2.605 2.604 2.605 2.604 2.605 | M.S.L.) | SUB AREA | DISC TOTAL AREA FT. 1 3.77 3.77 3.77 3.77 3.77 1.95 2.20 1.96 1.8 | HARGE SUB AREA | TOTAL AREA AREA | P. EV |
| TE Y | 908 I | AREA 2 H | 3 R .40 | GAGE GAGE JINGHE | S) | 6 M | .35 | 9 \$ 43 \$.00 .01 .01 .01 .05 | RA WI AREA 2 57% - 05 - 05 - 05 - 05 - 05 - 05 - 05 - 0 | INFA | ED R GAGE | 5 12% 9) | 6 18% | 7 23% | TOTAL WEIGHTED RAINFALL SUB AREA (INCHES) | TOTAL WEIGHTED RAINFALL ENTIRE AREA (INCHES) | (FT. 860 2.04 2.46 2.65 2.50 2.50 2.44 2.55 2.50 2.44 2.65 2.50 2.44 2.65 2.50 2.44 2.65 2.50 2.44 2.65 2.50 2.44 2.65 2.50 2.44 2.65 2.65 2.44 2.65 2.65 2.44 2.65 2.44 2.65 2.44 2.65 2.44 2.65 2.44 2.65 2.44 2.65 2.44 2.65 2.44 2.65 2.44 2.65 2.44 2.65 2.44 2.65 2.44 2.65 2.44 2.65 2.44 2.65 2.65 2.44 2.65 2.44 2.65 2.65 2.44 2.65 2.6 | M.S.L.) 5-29 4-59 1-9 3-3 3-7 5-4-9 1-9 1-9 1-9 1-9 1-9 1-9 1-9 1-9 1-9 1 | SUB AREA | DISC TOTAL AREA FT. 1 3.7.7 0.5.20 9.9.8 1.8.8 | HARGE SUB AREA | TOTAL AREA 1001 100 | P. EV |
| TE YTH 3 | 908 I | MAREA 2 F | 3 R .40 | GAGE GAGE JINGHE | 3) 3) .35 | 6 M | 35 | 9 \$ 43 \$.00 .01 .01 .01 .05 | RA WI AREA 2 57% - 05 - 05 - 05 - 05 - 05 - 05 - 05 - 0 | 3 10% -04 | ED R GAGE | 5 12% 5) | 6 18% | 7 23% | TOTAL WEIGHTED RAINFALL SUB AREA (INCHES) 0 37 | TOTAL WEIGHTED RAINFALL ENTIRE AREA (INGHES) 0 35 | (FT. 860 2.04 2.46 2.65 2.50 2.50 2.44 2.55 2.50 2.44 2.65 2.50 2.44 2.65 2.50 2.44 2.65 2.50 2.44 2.65 2.50 2.44 2.65 2.50 2.44 2.65 2.65 2.44 2.65 2.65 2.44 2.65 2.44 2.65 2.44 2.65 2.44 2.65 2.44 2.65 2.44 2.65 2.44 2.65 2.44 2.65 2.44 2.65 2.44 2.65 2.44 2.65 2.44 2.65 2.44 2.65 2.44 2.65 2.65 2.44 2.65 2.65 2.44 2.65 2.6 | M.S.L.) 5-29 4-59 1-9 3-3 3-7 5-4-9 1-9 1-9 1-9 1-9 1-9 1-9 1-9 1-9 1-9 1 | SUB AREA | DISC TOTAL AREA FT. 1 3.77 2.20 9.94 1.88 1.88 | HARGE SUB AREA | TOTAL AREA 1.0001m | EV CINC |
| TE Y | 908 I | MAREA 2 F | 3 R .40 | GAGE GAGE JINGHE | 3) 3) .35 | 6 M | 35 | 9 \$ 43 \$.00 .01 .01 .01 .05 | RA WI AREA 2 57% - 05 - 05 - 05 - 05 - 05 - 05 - 05 - 0 | 3 10% -04 | ED R GAGE | 5 12% 5) | 6 18% | 7 23% | TOTAL WEIGHTED RAINFALL SUB AREA (INCHES) 0 37 | TOTAL WEIGHTED RAINFALL ENTIRE AREA (INGHES) 0 35 | (FT. 860 2.04 2.46 2.65 2.50 2.50 2.44 2.55 2.50 2.44 2.65 2.50 2.44 2.65 2.50 2.44 2.65 2.50 2.44 2.65 2.50 2.44 2.65 2.50 2.44 2.65 2.65 2.44 2.65 2.65 2.44 2.65 2.44 2.65 2.44 2.65 2.44 2.65 2.44 2.65 2.44 2.65 2.44 2.65 2.44 2.65 2.44 2.65 2.44 2.65 2.44 2.65 2.44 2.65 2.44 2.65 2.44 2.65 2.65 2.44 2.65 2.65 2.44 2.65 2.6 | M.S.L.) 5-29 4-59 1-9 3-3 3-7 5-4-9 1-9 1-9 1-9 1-9 1-9 1-9 1-9 1-9 1-9 1 | SUB AREA | DISC TOTAL AREA FT.1 3.77 3.77 3.05 2.09 9.99 1.88 1.88 9.19 | HARGE SUB AREA | TOTAL AREA 41.000178 AREA 00.1 | P. EV |
| TE Y NTH 3 AR 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 908 I | MAREA 2 F | 3 R .40 | GAGE GAGE JINGHE | 3) 3) .35 | 6 M | 35 | 9 \$ 43 \$.00 .01 .01 .01 .05 | RAA 2 2 37 3 57 3 57 3 57 3 57 3 57 3 57 3 | 3 10% -04 | ED R GAGE | 5 12% 5) | 6 18% | 7 23% | TOTAL WEIGHTED RAINFALL SUB AREA (INCHES) 0 37 | TOTAL WEIGHTED RAINFALL ENTIRE AREA (INGHES) 0 35 | (FT. 86 140 2.46 2.65 | 5.20 69 1 2 2 3 3 4 3 5 5 6 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | SUB AREA | DISC TOTAL AREA FT. 1 3.77 2.20 9.94 1.88 1.88 | HARGE SUB AREA | TOTAL AREA 1 0001 0 | EV CINC |
| TE Y | 908 I | MAREA 2 F | 3 R .40 | GAGE GAGE JINGHE | 3) 3) .35 | 6 M | 35 | 3UB 9 1 9 1 10 01 01 01 01 01 01 01 01 01 01 01 0 | RAAREA 2 2 3 1 5 7 8 6 7 7 1 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | 3 10 % - 04 - 13 | ED R GAGE | 5 12% 5) | 6 18% | 7 23% | TOTAL WEIGHTED RAINFALL SUB AREA (INCHES) 0 37 | TOTAL WEIGHTED RAINFALL ENTIRE AREA (INGHES) 0 35 | (FT. 1.86 1.40 2.46 2. | 1.5.20 (4.9.0.1.0.0.0.4.0.1.0.1.0.0.0.4.0.0.1.0.0.0.4.0.1.0.0.0.0 | SUB AREA | DISC TOTAL AREA TOTAL TO | HARGE SUB AREA | TOTAL AREA 11.000174 12.000174 12.000174 12.000174 12.00 | PEV CINC OLIVER TO THE PER PER PER PER PER PER PER PER PER PE |
| TE YTH 3 | 908 I | MAREA 2 F | 3 R .40 | GAGE GAGE JINGHE | 3) 3) .35 | 6 M | 35 150 T | 3UB 9 1 9 1 10 01 01 01 01 01 01 01 01 01 01 01 0 | RAAREA 2 2 3 1 5 7 8 6 7 7 1 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | 3 10 % - 04 - 13 | ED R GAGE | 5 12% 5) | 6 18% | 7 23% | TOTAL WEIGHTED RAINFALL SUB AREA (INCHES) 0 37 | TOTAL WEIGHTED RAINFALL ENTIRE AREA (INGHES) 0 35 | (FT. 1.86 1.40 2.46 2. | 1.5.20 (4.9.0.1.0.0.0.4.0.1.0.1.0.0.0.4.0.0.1.0.0.0.4.0.1.0.0.0.0 | SUB AREA | DISC TOTAL AREA 57.77 9.05.22.29.99.99.99.19.1 | HARGE SUB AREA | TOTAL AREA 1 000 1 | EV (INC 2 / 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |
| TE YVTH 3 3 AR S S S S S S S S S S S S S S S S S S | 908 I | MAREA 2 F | 3 R .40 | GAGE GAGE JINGHE | 3) 3) .35 | 6 M | 35 | 3UB 133 004 010 010 010 010 010 010 010 | RA WI AREA 2 2 3 1 10 10 10 10 10 10 10 10 10 10 10 10 1 | 3 10 % - 04 - 13 | ED R GAGE | 5 12% 5) | 6 18% | 7 23% | TOTAL WEIGHTED RAINFALL SUB AREA (INCHES) 0 37 | TOTAL WEIGHTED RAINFALL ENTIRE AREA (INGHES) 0 35 | (FT. 1.86 1.40 2.46 2. | 1.5.20 (4.9.0.1.0.0.0.4.0.1.0.1.0.0.0.4.0.0.1.0.0.0.4.0.1.0.0.0.0 | SUB AREA | DISC TOTAL AREA 7.7.7 05.20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | HARGE SUB AREA | TOTAL AREA 11.000178 AREA 00 1 | P. EV |
| TE YYTH 3 | 40 1.10 | MAREA 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 3 R .40 | | 30 .35 .70 | .36 125 | 7 .35 1.53 | 318 - 91 - 01 - 01 - 01 - 01 - 01 - 01 - 01 | RA WE AREA 2 2 3 4 5 16 0 3 1 0 2 2 1 7 1 4 8 2 7 2 1 1 3 7 1 3 7 1 3 7 1 3 7 | 3 10% (-04 | LL ED R GAGE | 5 12% S) .04 .26 | 6 18% .05 | .08 | TOTAL WEIGHTED RAINFALL SUB | TOTAL WEIGHTED RAINFALL ENTIRE AREA (INGHES) 0 35 1.34 | (FT. 1.86 1.40 2.46 2. | 1.5.20 (4.9.0.1.0.0.0.4.0.1.0.1.0.0.0.4.0.0.1.0.0.0.4.0.1.0.0.0.0 | SUB AREA | DISC TOTAL AREA FT. 1 277 OD 200 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | HARGE SUB AREA | TOTAL AREA 1 000 1 | P. E. CINC 2 12222222222222222222222222222222222 |
| TE YTH 3 | 40 1.10 | MAREA 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 3 R .40 | | 3) 3) .35 | .36 125 | 7 0 .35 1-53 T | 308 9 1 03 001 001 001 001 001 001 001 0 | RA WI AREA 2 2 3 1 1 1 1 1 2 2 1 1 3 1 1 1 1 1 1 1 | 3 10 % - 04 13 | LL ED R GAGE | 5 12% S) .04 .26 | 6 18% | .08 | TOTAL WEIGHTED RAINFALL SUB AREA (INCHES) 0 37 | TOTAL WEIGHTED RAINFALL ENTIRE AREA (INGHES) 0 35 | (FT. 860 2.64 2.65 2.6 | 1.5.1.1 5.4.99 1.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | SUB AREA | DISC TOTAL AREA FT. J C 777 DUSC 2099 A B & B G G G G G G G G G G G G G G G G G | HARGE SUB AREA | TOTAL AREA 41.000178 AREA 60.1 00.1 | P. E. CIN. 2 / 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |
| TE 37 AR 3 A | 30 1.10 | MAREA 2 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | 3 R (40 L32 | 35 1.15 | 3) .35 .35 .70 | .30 125 | 7 0 .35 1-53 T | 308 9 1 03 001 001 001 001 001 001 001 0 | RA WI AREA 2 2 3 1 1 1 1 1 2 2 1 1 3 1 1 1 1 1 1 1 | 3 10 % - 04 13 | LL GAGE | 5 12% S) .04 .2601 | .05 ,05 | .08 | TOTAL WEIGHTED RAINFALL SUB AREA (INCHES) 0.37 1.18 | TOTAL WEIGHTED RAINFALL ENTIRE AREA (INGHES) 0.35 | (FT. 1.866) 2.044 (2.645) 2.645 (2.645) 2.64 | 1.5.1.1 5.4.99 1.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | SUB AREA | DISC TOTAL AREA FT. 1 277 OD 200 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | HARGE SUB AREA | TOTAL AREA 1 000176 1 0001 | (INC 2 / 22222 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |
| TE 3 AR 3 A | 40 110 15 | MAREA 2 8 8 8 1,35 1,25 1,25 1,25 1,25 1,25 1,25 1,25 1,2 | 3 R .40 1.32 | 35 1.15 Bb |) AINFA | 30 30 6 6 7 25 | 7 0 .35 1-53 T | 308 9 1 03 001 001 001 001 001 001 001 0 | RA WE AREA 2 2 3 4 5 16 0 3 1 0 2 2 1 7 1 4 8 2 7 2 1 1 3 7 1 3 7 1 3 7 1 3 7 | 3 10 % - 04 - 13 | LL ED R GAGE | 3 12% 3) .04 .26 | .09 | .08 | TOTAL WEIGHTED RAINFALL SUB AREA (INCHES) 0 37 1 1 B | TOTAL WEIGHTED RAINFALL ENTIRE AREA (INGHES) 0.35 1.34 | (FT. 1.866) 2.044 (2.645) 2.645 (2.645) 2.64 | 1.5.1.0 0 0 9 9 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | SUB AREA | DISC TOTAL AREA | CHARGE SUB AREA OFFICE | TOTAL AREA 1.000174 1.0000174 1.0000174 1.0000174 1.0000174 1.0000174 1.0000174 1.0000174 1. | EN CINC 2 / 22/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2 |
| TE Y 3 AR 3 5 5 5 7 7 5 9 9 0 0 1 2 2 3 4 5 5 6 7 7 | 15 30 30 30 | MAREA 2 8 8 8 1,35 1,25 1,25 1,25 1,25 1,25 1,25 1,25 1,2 | .40 .40 .25 | 35 1.15 BSD 2.32 | .12 .15 .10 | .30 125 | 7 0 .35 1.53 T | 3U8 - 19 - 10 - 10 - 10 - 10 - 10 - 10 - 10 | RA WI AREA 2 2 3 1 1 1 1 1 2 2 1 1 3 1 1 1 1 1 1 1 | 3 10 % - 04 13 | LL GAGE 4 115% 115% 115% 115% 115% 115% 115% 11 | 5 12% S) .04 .2601 | .09 | .08 | TOTAL WEIGHTED RAINFALL SUB AREA (INCHES) 0.37 1.18 | 0.15 | (FT. 1.866 2.446 | 1.5.L.) 5.49 6.10 6.40 6.10 6.40 6.40 6.40 6.40 6.40 6.40 6.40 6.4 | SUB AREA | DISC TOTAL AREA | CHARGE SUB AREA IN OOIM IN OVER | TOTAL AREA 1 000176 | P. E. V. (INV. 2 12 22 22 22 22 22 22 22 22 22 22 22 2 |
| TE AY AR | 15 10 10 15 10 10 10 | MAREA 2 P. 35 P. 35 P. 35 P. 35 P. 37 P. 3 | .30 .30 .30 .30 | 35 1.15 1.15 2.22 2.10 2.10 |) S) | .30 .30 .35 .35 .35 | 7 0 .35 1-53 T | 3U8 - 19 - 10 - 10 - 10 - 10 - 10 - 10 - 10 | RA WI AREA 2 2 3 1 1 1 1 1 2 2 1 1 3 1 1 1 1 1 1 1 | 04 ./3 .04 04 03 | LL ED R GAGE | 3 12% 3) .04 .26 | .09 | .08 | TOTAL WEIGHTED RAINFALL SUB AREA (INCHES) 0.37 1.18 | 0.15 | (FT. 860 2.644 2.464 2 | 1.00 (89 0.10 0.00 0.10 0.10 0.10 0.10 0.10 0.1 | SUB AREA | DISC TOTAL AREA | CHARGE SUB AREA OPEN OPEN OPEN OPEN OPEN OPEN OPEN OPE | TOTAL AREA 11.000178 AREA 12.000178 AREA 12.000178 AREA 12.000178 AREA 13.000178 14.000178 15.000178 16.0017 | P. EV (INC 2 / 22/22/22/22/22/22/22/22/22/22/22/22 |
| TE AY NTH AR S S S S S S S S S S S S S S S S S S | 15 10 10 15 10 10 10 | MAREA 2 P. 35 P. 35 P. 35 P. 35 P. 37 P. 3 | .30 .30 .30 .30 | 35 1.15 1.15 2.22 2.10 2.10 |) S) | .30 .30 .35 .35 .35 | 7 0 .35 1.53 T | 3U8 - 19 - 10 - 10 - 10 - 10 - 10 - 10 - 10 | RA WI AREA 2 2 3 1 1 1 1 1 2 2 1 1 3 1 1 1 1 1 1 1 | 10 10 10 10 10 10 10 10 10 10 10 10 10 1 | 15% A | 3 128 3 3 04 .04 | .09 .11 | .08 | TOTAL WEIGHTED RAINFALL STALL | 0.15 | (FT. 860 2.644 2.464 2 | 1.00 (89 0.10 0.00 0.10 0.10 0.10 0.10 0.10 0.1 | SUB AREA | DISC TOTAL AREA | CHARGE SUB AREA OPEN OPEN OPEN OPEN OPEN OPEN OPEN OPE | TOTAL AREA 1 000176 | PI EV |
| TE AY NTH 3 AR 1 2 2 5 6 6 7 7 6 6 9 9 0 0 1 2 2 3 3 4 4 5 6 7 7 6 9 9 0 0 1 1 2 2 3 3 4 4 5 6 7 7 6 9 9 0 0 1 1 2 2 3 3 3 4 4 5 6 7 7 7 6 9 9 0 0 1 1 2 2 3 3 3 4 4 5 6 7 7 7 6 9 9 0 0 1 1 2 2 3 3 3 4 4 5 6 7 7 7 6 9 9 0 0 1 1 2 2 3 3 3 4 4 5 6 7 7 7 6 9 9 0 0 1 1 2 2 3 3 3 4 4 5 6 7 7 7 6 9 9 0 0 1 1 2 2 3 3 3 4 4 5 6 7 7 7 6 9 9 0 0 1 1 2 2 3 3 3 4 4 5 6 7 7 7 6 9 9 0 0 1 1 2 2 3 3 3 4 4 5 6 7 7 7 6 9 9 0 0 1 1 2 2 3 3 3 4 4 5 6 7 7 7 6 9 9 0 0 1 1 2 2 3 3 3 4 4 5 6 7 7 7 6 9 9 0 0 1 1 2 2 3 3 3 4 4 5 6 7 7 7 6 9 9 0 0 1 1 2 2 3 3 3 4 4 5 6 7 7 7 6 9 9 0 0 1 1 2 2 3 3 3 4 5 6 7 7 7 6 9 9 0 0 1 1 2 2 3 3 3 4 5 6 7 7 7 6 9 9 0 0 1 1 2 2 3 3 3 4 5 6 7 7 7 6 9 9 0 0 1 1 2 2 3 3 3 4 5 6 7 7 7 6 9 9 0 0 1 1 2 2 3 3 3 4 5 6 7 7 7 6 9 9 0 0 1 1 2 2 3 3 3 4 5 6 7 7 7 6 9 9 0 0 1 1 2 2 3 3 3 4 5 6 7 7 7 6 9 9 0 0 1 1 2 2 3 3 3 4 5 6 7 7 7 6 9 9 0 0 1 1 2 2 3 3 3 4 5 6 7 7 7 6 9 9 0 0 1 1 2 2 3 3 3 4 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | 30. 15. 15. 16. 16. 16. 16. 16. 16. 16. 16. 16. 16 | 8 B 1,25 1,25 1,25 1,25 1,25 1,25 1,25 1,25 | 3 R (1.32 1.32 1.32 1.32 1.32 1.32 1.32 | 78 RED 1 GAGE 1,35 1,15 2,10 3,10 3,10 3,10 3,10 3,10 3,10 3,10 3 | .12 .12 .13 .12 .12 | .36 .36 .125 | 7 35 1.52 7 10 20 | 333 .04 .10 .03 .02 .01 .01 .05 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 | RAAREA AREA AREA AREA AREA AREA AREA AR | 04 -04 -03 -03 -09 -02 | 115% 6 A G G A G G A G G G G G G G G G G G G | .14 .14 .14 | .09 .11 | .08 | TOTAL WEIGHTED RAINFALL SUB AREA (INCHES) 0.37 1.18 | TOTAL WEIGHTED RAINFALL ENTIRE AREA (INGHES) 0 35 1.34 0.15 | (FT. 1.866 2.446 | 1.00 (89 0.10 0.00 0.10 0.10 0.10 0.10 0.10 0.1 | SUB AREA | DISC TOTAL AREA | CHARGE SUB AREA IN OUT ME IN OU | TOTAL AREA 1.000178 | PEV CINC 2 LA ZAZAZA ZAZAZA ZAZAZAZAZAZAZAZAZAZAZA |

CENTRAL AND SOUTHERN FLORIDA FLOOD CONTROL DISTRICT & UNIVERSITY OF FLORIDA, AGRICULTURAL EXPERIMENT STATION

MONTHLY HYDROLOGIC DATA UPPER TAYLOR CREEK WATERSHED FLORIDA WATERSHED W-2 & 3

| ATE | | | | | | | | | RA | INFA | LL | | | | | | ST | AGE | | DISC | HARGE | | |
|--|--|--|--|--|-------------------|---|--|---|--|--|--|--|---|---|---|---|--|--|---|--|---|--|---|
| UG | \vdash | | | ED E | AINFA | 11 | | | | EIGHT | | AINFA | LL | | TOTAL | TOTAL | UPPER | LOWER | SUB | TOTAL | SUB | TOTAL | PAN |
| ONTM | \vdash | ant | LAGOR | GAGE | - | - | - | | | | GAGE | _ | - | | RAINFALL | RAINFALL | STATION | STATION | AREA | AREA | AREA | AREA | EVA |
| EAR | SUB A | AREA | | | | | 7 | SUB | AREA | 3 | 4 | - | 6 | 7 | SUB | AREA | | | | | | | |
| | W | G | R | 1 | Ď | M | 6 | 9 % | 13% | | | 12% | 18% | 23% | Anea | MACA | | | | | Q 11.00254 | Q H .000376 | |
| | | - | | NCHE | | 1 | - | | 57% | | NGHE | | - | | (INCHES) | (INCHES) | (FT. | M.S.L) | | FT.) | (IN, OVER | | (INCH |
| 1 | | | | | | | | .00 | .03 | | | - 1 | | | | - 11 | 3.40 | 4.40 | 1-2 | 3.2 | .003 | .001 | .27 |
| 3 | - | | | .10 | .10 | 45 | | | .02 | | .02 | 01 | .08 | | | 0.11 | 3.35 | 4.40 | 9775 | 3.0 | 002 | 001 | .15 |
| 4 | | | | _ | | | - | 01 | 02 | | - | - | | | | | 335 329 325 321 | 431 | .5 | 2.5 | .001 | 001 | .24 |
| 5 | | .20 | .0.5 | | | | .10 | .01 | 50. | .06 | | | - | .02 | 0.11 | 0.05 | 3.21 | 4.25 | .4 | 2.4 | 001 | -001 | .27 |
| 7 | | + | | - | - | - | - | 01 | 09 | - | | - | | - | | | 3.18 | 4.27 | -3 | 23 | .001 | 001 | |
| 8 | .05 | .15 | | | .50 | | 15 | 04 | 01 | | | 06 | | .03 | 0.11 | 0.11 | 3.07 | 4.27 | .2 | 2.2 | .001 | 001 | 26 |
| 9 | | .15 | .18 | | | | .25 | -01 | .03 | | - | | - | .06 | 0.07 | 0.03 | 3.01 | 4.27 | | 2.2 | 001 | 001 | 30 |
| 10 | | 05 | .70 | - | - | | | - | - | 02 | - | | - | | NUL | | 2.92 | 4.26 | 11 | 2.1 | .001 | 001 | .27 |
| 12 | 05 | | 82 | | 125 | | _ | _ | | 80. | | .15 | | | 0.02 | 0.23 | 7.88 | 4.25 | 4 | 2.1 | .001 | 001 | 20 |
| 13 | .10 | .15 | | .10 | - | - | | - | | - | 00 | | | 24 | 013 | 0.04 | 2.80 | 4.7E | 11 | 2.1 | 1 | 001 | 2 |
| 15 | 110 | .10 | | 111) | | .35 | .35 | - | | | 160.0 | | .06 | 34 | - 12 | 0.14 | 2.84 | 4.26 | .1 | 2.1 | | 001 | .20 |
| (6 | | | | _ | | - | | 2 | 24 | | | | | | | | 2.76 | 1.27 | | 2.1 | 1 | 001 | 29 |
| 18 | .05 | | .35 | - | .85 | - | - | 02 | 11. | 04 | | .10 | | | 002 | 0.15 | 2.65 | 4.25 | -11 | 2.1 | 1 | .001 | .27 |
| 19 | .10 | .40 | | | | 105 | .60 | 04 | 09 09 | | | .02 | | 14 | 027 | A 22 | 2.61 | 4.74 | .1 | 2.5 | 1 | 001 | .17 |
| 20 | 50 | .72 | -10 | 1.85 | .0.5 | 105 | 1.50 | .02 | 02 | 10. | .28 | 01 | 19 | .34 | 0.62 | 096 | 2.6 | 4.25 | 1 | 5.4 | 1 | 001 | .19 |
| 22 | 40 | .10 | 45 | -10 | .10 | .05 | .30 | 21 | 23 | .04 | OR | 01 | 123 | 07 | 0 78 | 0.38 | 2.76 | 4.27 | 4.1 | 5.7 | | 002 | .14 |
| 23 | 10 | | 13 | .05 | 1.00 | 1.30 | 1.15 | 06 | 41 | 01 | 01 | .12 | .23 | 26 | 0.05 | 0.64 | 2.85 | 4.28 | - 4 | 4.6 | 1 | 002 | .17 |
| 24 | - | - | - | - | - | | - | | 06 | - | | - | | - | | _ | 2.89 | 4.26 | - 11 | 3.5 | 1 | 001 | .20 |
| 26 | | | | | | | | 200 | | 1 | | İ | | | | | 2.89 | 4.25 | .1 | 3.5 | 7 | 001 | 23 |
| 27 | | | | | 1 | | | \vdash | | <u> </u> | - | | _ | | | | 2.83 | 4.74 | - 1 | 2.8 | 1 | 001 | 20 |
| 28 | \vdash | - | | | | | - | ╂─ | + | - | - | | | | | | 2.46 | 4.08 | -1 | 2.6 | 1 | 001 | 31 |
| O | | | | | | | | | | | | | | | | | 2.59 | 404 | | 2.5 | 1 | 001 | -23 |
| 51. | | | | | | | | | | | | | | | | | 2.52 | 4.05 | | 89.7 | 414 | 001 | 169 |
| TAL | 100 | 2.12 | | 3.14 | | 0.85 | | 1,63 | | | 27.90 | .70 | (6) | 2.7 | 184 | 3 98 | | | 0.0 | | | B. JULY IM | |
| ATE | | | | | | | | | | | | | | | | | | | | | | | |
| TOT | | | | | | | | | RA | INFA | LL | | | | | | | AGE | | | HARGE | | |
| | | М | EASUR | RED F | RAINFA | LL | | | | INFA | | AINFA | LL | | TOTAL | TOTAL | UPPER | LOWER | SUB | TOTAL | SUB | TOTAL | |
| NTH | | М | EASUR | | | LL | _ | | | | ED R | | LL | | TOTAL WEIGHTED RAINFALL | TOTAL WEIGHTED RAINFALL | UPPER | | | | | TOTAL | |
| E3 | SUB A | | EASUF | GAGE | | | - | SUB | AREA | EIGHT | ED R | | | | WEIGHTED RAINFALL SUB | WEIGHTED RAINFALL ENTIRE | UPPER | LOWER | | TOTAL | SUB | | |
| E3 | _1 | AREA | EASUF R | GAGE 4 | 5 | 6 | 7 | 1 | AREA 2 | EIGHT | GAGE | 5 | 6 | 7 23% | WEIGHTED RAINFALL | WEIGHTED RAINFALL | UPPER | LOWER | | TOTAL | SUB | | |
| NTH 63 | SUB A | | 3 R | | 5 | | 7 | 9 % | AREA 2 | BIGHT | GAGE | 5 | | | WEIGHTED RAINFALL SUB | WEIGHTED RAINFALL ENTIRE | UPPER | LOWER | AREA | TOTAL AREA | SUB | AREA | EV/ |
| AR | _1 | AREA | 3 R | GAGE | 5 | 6 M | | 9% | AREA 2 13 % 57 % | 3 10 % | GAGE | 5 | 6 | | WEIGHTED RAINFALL SUB AREA | WEIGHTED RAINFALL ENTIRE AREA | UPPER STATION | M.S.L.) | AREA (SEC. | TOTAL AREA | SUB AREA | AREA | PA. EV/ |
| AR | _1 | AREA 2 B | 3 R | GAGE 4 NCHE | 5 | M .20 | 0 | 9 % 43% | AREA 2 13 % 57 % | 3 10 % | GAGE 4 115% | 5 12 % | 18% | 23% | WEIGHTED RAINFALL SUB AREA (INCHES) | WEIGHTED RAINFALL ENTIRE AREA (INCHES) | UPPER STATION | M.S.L.) | (SEC. | TOTAL AREA | SUB AREA | AREA) | (INC |
| AR L 2 3 | _1 | AREA | 8 R () | GAGE | 5 | 6 M .20 | -10 | 9 % 43% .03 .04 .04 .07 | AREA 2 13 % 57 % | 3 10 % | GAGE | 5 12 % | 18% | 23% | WEIGHTED RAINFALL SUB AREA (INCHES) | WEIGHTED RAINFALL ENTIRE AREA (INCHES) | UPPER STATION | M.S.L.) | AREA (SEC. | TOTAL AREA FT. 1 2.3 2.3 2.3 | SUB AREA | AREA | (INC |
| AR 2 3 | .35 | AREA 2 B | 57 42 | GAGE 4 J NCHE | 5 D S) | 6 M .20 | -10 | 9 % 43% .03 .04 .04 .07 | AREA 2 13 % 57 % | 3 10 % | GAGE 4 115% INCHE | 5 12 % 3) | .04 | 23% | WEIGHTED RAINFALL SUB AREA (INCHES) | WEIGHTED RAINFALL ENTIRE AREA (INCHES) | UPPER STATION (FT. 2.45 2.40 2.55 | M.S.L.) 4.05 4.05 4.07 4.07 | (SEC. | FT. J 2.33.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3. | SUB AREA | AREA) .001 .001 | (INC |
| AR 1 2 3 4 5 6 | W | 38 .75 | 57 42 | GAGE 4 NCHE | 5 D S) | 6 M .20 | -10 | 9 % 43% .03 .04 .07 .01 | AREA 2 13 % 57 % 10 .08 .09 .01 | 3 10 % | GAGE 4 115% INCHE | 5 12 % | 04 | .05 | WEIGHTED RAINFALL SUB AREA (INCHES) | WEIGHTED RAINFALL ENTIRE AREA (INCHES) | UPPER STATION (FT. 2.45 2.40 2.55 | M.S.L.) 4.05 4.05 4.07 4.07 | (SEC. | FT.1 2.3 2.3 2.3 2.3 2.3 | SUB AREA | AREA) AREA) OCI OCI OCI | (INC |
| AR 2 3 4 5 6 7 8 | .35 | AREA 2 B | 57 42 | GAGE 4 J NCHE | .06 .30 | M .20 | -10 | 9 % 43% .03 .04 .07 .01 .01 .02 | AREA 2 13 % 57 % 57 % | 3 10 % | GAGE 4 115% INCHE | 5 12 % 3) | 04 .04 .07 .03 .03 | .02 | WEIGHTED RAINFALL SUB AREA (INCHES) | WEIGHTED RAINFALL ENTIRE AREA (INCHES) | UPPER STATION (FT. 2.45 | M.S.L.) 4.05 4.05 4.07 4.11 4.12 4.07 | (SEC. | FT.1 2.3 2.3 2.3 2.3 2.3 | SUB AREA | AREA) .001 .001 | (INC |
| NTH 3 AR 2 2 3 4 4 5 5 5 5 7 7 8 8 9 9 | .35 | 38 .75 | 3 R 42 .13 .80 | GAGE 4 J NCHE | .06 .30 | M 10000 | -10 | 9 % 43% 09 00 00 00 00 00 00 00 00 00 00 00 00 | W AREA 2 13% 57% 05 10 05 06 07 08 07 08 07 08 07 | 3 10 % 10 % | GAGE 4 115% INCHE | 5 12 % 3) | 04 .04 .07 .03 .03 | .05 | WEIGHTED RAINFALL SUB AREA (INCHES) | WEIGHTED RAINFALL ENTIRE AREA (INCHES) | UPPER STATION (FT. 2.45 2.40 2.55 2.55 2.55 2.58 | M.S.L.) 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 | (SEC. | FT.1 2.3 2.3 2.3 2.3 2.3 | SUB AREA | AREA) AREA) OO / | (INC) 20 -13 -10 -20 -17 -20 -17 -20 -17 |
| NTH 3 AR 1 2 3 4 5 5 7 7 8 9 9 | .35 | 38 .75 | 3 R 42 .13 .80 | GAGE 4 J NCHE | .06 .30 | M .20 | 1.20 | 9 % 43% 09 00 00 00 00 00 00 00 00 00 00 00 00 | W AREA 2 13 % 57 % 57 % 05 10 0 1 32 0 6 0 7 0 5 | 3 10 % 10 % | GAGE 4 115% INCHE | 5 12 % 3) | .04 .04 .07 .03 .03 | .02 | WEIGHTED RAINFALL SUB AREA (INCHES) | WEIGHTED RAINFALL ENTIRE AREA (INCHES) 0.09 0.36 0.07 0.52 0.39 0.13 | UPPER STATION (FT. 2.45 2.40 2.55 2.59 2.78 2.83 2.88 | M.S.L.) 4.05 4.05 4.15 4.17 4.17 4.17 4.17 4.17 4.17 4.17 4.17 | (SEC. | FT.] 2.3.3.1.1.1.4.8.1.0.5 | SUB AREA | AREA AREA | (INC) 20 13 10 12 10 10 10 10 10 10 10 10 10 10 10 10 10 |
| AR 1 2 2 3 3 4 4 5 5 6 6 7 7 8 9 9 0 0 1 2 2 | 35 45 | 38 -38 | 577 473 80 | MCHE | .06 .30 | 1 160 -15 -15 -15 | .75 | 9 % 43% .03 .04 .04 .07 .01 .02 .06 .02 .01 .09 .11 | W AREA 2 13% 57% 10 05 10 06 01 05 01 05 01 05 01 | 3 10 % 10 % | 0AGE 4 115% INGHE | 5 12 % 3) | 04 | .02 | WEIGHTED RAINFALL SUB AREA (INCHES) | WEIGHTED RAINFALL ENTIRE AREA (INCHES) 0 09 0 3 6 0 0 7 0 5 2 0 3 9 0 1 3 0 2 1 | UPPER STATION (FT. 2.45 2.40 2.55 2.55 2.55 2.58 | 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | (SEC. | FT.1 2.3 2.3 2.3 2.3 2.3 | SUB AREA | AREA 41 808174 AREA 001 001 001 001 001 002 002 00 | (INC) |
| NTH 3 AR 1 2 3 4 5 6 6 7 7 8 9 9 9 0 1 2 2 3 3 | 35 45 | 38 -38 | 577 473 80 | 100 100 100 15 | .06 .30 | M 1100 -405 -155 -15 | .75 | 9 % 43% .03 .04 .04 .07 .01 .02 .06 .02 .01 .09 .11 | W AREA 2 13 % 57 % 57 % 05 10 0 1 32 0 6 0 7 0 5 | 3 10 % 10 % | 04 94 94 94 94 94 94 94 94 94 94 94 94 94 | 01 | 04 | .02 | WEIGHTED RAINFALL SUB AREA (INCHES) | WEIGHTED RAINFAIL ENTIRE AREA (INCHES) 0.09 0.70 0.52 0.39 0.13 0.21 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.0 | UPPER STATION (FT. 2.45 2.41 2.55 2.78 2.88 2.88 2.88 2.88 2.88 | M.S.L) 4 4 05 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | (SEC. | FT.] 333 3 3 3 5 6 0 5 0 | SUB AREA ON OVER | AREA 41 808174 AREA . 001 . 001 . 001 . 001 . 001 . 002 . 002 . 003 . 004 | (INC) 26 13 16 26 17 26 17 26 26 26 26 26 26 26 26 26 26 26 26 26 |
| NTH 22 3 4 4 5 5 6 6 7 7 8 9 0 1 2 2 3 4 4 | 35 45 | 38 -38 | 577 473 80 | MCHE | .06 .30 | M 1000 150 155 155 155 155 | .75 | 9 % 43% .03 .04 .04 .07 .01 .02 .06 .02 .01 .09 .11 | W AREA 2 13% 57% 10 05 10 06 01 05 01 05 01 05 01 | 3 10 % 10 % | GAGE 4 115% NCHE | 01 | 04 .04 .07 .07 .03 .03 | .02 | WEIGHTED RAINFALL SUB AREA (INCHES) | WEIGHTED RAINFALL ENTIRE AREA (INCHES) 0.09 0.36 0.07 0.52 0.13 0.21 0.07 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0. | UPPER STATION (FT. 2.45 o 2.75 o 2.7 | 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | (SEC. | FT.1 333333 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | SUB AREA GIN OVER | AREA AREA OC / OO | (INC) |
| 1 2 3 4 5 6 7 8 9 9 0 1 2 3 4 5 6 6 | 35 45 | 38 -38 | 577 422 133 80 | 100 100 100 15 | .06 .30 | M 1100 -405 -155 -15 | .75 | 9 % 43% .03 .04 .04 .07 .01 .02 .02 .01 .07 .11 .26 | W AREA AREA AREA AREA AREA AREA AREA ARE | 3 10 % 10 % | GAGE 4 115% NCHE | 01 | 04 | .02 | WEIGHTED RAINFALL SUB AREA (INCHES) | WEIGHTED RAINFALL ENTIRE AREA SINCHES) 0.09 0.36 0.07 0.52 0.39 0.21 0.07 0.70 0.70 0.70 0.70 0.70 0.70 0.7 | UPPER STATION (FT. 2.45 - 2.40 - 2.55 - 2.57 - 2.50 - 2.5 | 100 800 7 1 50 | SEC. | FT.] 2.3.3.1.1.4.8.5.0.5.0.0 | SUB AREA ON OVER | AREA AREA AREA | (INC) 26 15 15 15 15 15 15 15 15 15 15 15 15 15 |
| NTH 23 AR 1 2 3 4 5 6 6 7 7 8 9 0 1 2 2 3 4 4 5 6 6 7 7 | 35 45 | 38 .38 .40 | \$77.33 80 ,05 | 100 100 100 100 100 100 100 100 100 | .06 .30 | M .200 .110 .15 .15 .15 .15 | .75 .35 .40 | 9 % 43% 03 04 07 01 01 02 00 01 01 02 00 01 01 02 01 01 02 01 01 01 01 01 01 01 01 01 01 01 01 01 | W AREA 2 2 3 % 57 % 05 10 08 01 05 02 02 02 | 3 10% 10% 04 01 08 | GAGE 4 115% NICHE .02 .15% .02 | 01 | 6 18 % .04 .07 .07 .03 .03 .03 | .02 | WEIGHTED RAINFALL SUB AREA (INCHES) 0 22 0 15 0 62 0 34 0 04 0 04 | WEIGHTED RAINFAILE ENTIRE ENTRE AREA (INCHES) 0 09 0 7 0 52 0 7 0 52 0 0 7 0 16 0 0 7 0 0 0 4 | UPPER STATION (FI. 2 45 9 2 4 1 2 5 5 5 9 7 2 8 3 2 8 8 2 7 8 8 2 7 8 8 2 7 8 8 8 7 7 8 8 8 8 | 100 000 1150 100 100 100 100 100 100 100 | (SEC. 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | TOTAL AREA FT.) 3.33.7.7.7.7.7.9.5.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0 | SUB AREA (IN OVER | AREA AREA OCI OCI OCI OCI OCI OCI OCI OC | (INC) 26 15 15 15 15 15 15 15 15 15 15 15 15 15 |
| NTH 23 4 5 5 6 6 7 7 8 9 9 0 1 2 2 3 3 4 4 5 5 6 6 7 7 | 35 45 | 38 .38 .40 | \$77.33 80 ,05 | 100 100 100 100 100 100 100 100 100 | .06 .30 | M .200 .110 .15 .15 .15 .15 | .75 .35 .40 | 9 % 43% 03 04 07 01 01 02 00 01 01 02 00 01 01 02 01 01 02 01 01 01 01 01 01 01 01 01 01 01 01 01 | W AREA 2 2 3 % 57 % 05 10 08 01 05 02 02 02 | 3 10% 10% 04 01 08 | GAGE 4 115% NICHE .02 .15% .02 | 01 | 6 18 % .04 .07 .07 .03 .03 .03 | .02 | WEIGHTED RAINFALL SUB AREA (INCHES) 0 22 0 15 0 62 0 34 0 04 0 04 | WEIGHTED RAINFAIL ENTIRE AREA (INCHES) 0 09 0 57 0 52 0 13 0 21 0 0 7 0 0 0 7 0 0 0 7 0 0 0 7 0 0 0 7 0 0 0 7 0 0 0 7 0 0 0 7 0 0 0 7 0 0 0 0 7 0 | UPPER STATION (FI. 2 45 9 2 4 1 2 5 5 5 9 7 2 8 3 2 8 8 2 7 8 8 2 7 8 8 2 7 8 8 8 7 7 8 8 8 8 | 100 000 1150 100 100 100 100 100 100 100 | (SEC. 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | TOTAL AREA FT.) 3.33.7.7.7.7.7.9.5.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0 | SUB AREA (IN OVER | AREA AREA OCI OCI OCI OCI OCI OCI OCI OC | (INC 20 10 10 10 10 10 10 10 10 10 10 10 10 10 |
| 23 4 5 5 6 7 7 8 9 100 111 122 135 144 155 165 177 | 35 45 | 38 .38 .40 | \$77.33 80 ,05 | 100 100 100 100 100 100 100 100 100 | .06 .30 | M .200 .110 .15 .15 .15 .15 | .75 .35 .40 | 9 % 43% 03 04 07 01 01 02 00 01 01 02 00 01 01 02 01 01 02 01 01 01 01 01 01 01 01 01 01 01 01 01 | W AREA 2 2 3 % 57 % 05 10 08 01 05 02 02 02 | 3 10% 10% 04 01 08 | GAGE 4 115% NICHE .02 .15% .02 | 01 | 6 18 % .04 .07 .07 .03 .03 .03 | .02 | WEIGHTED RAINFALL SUB AREA (INCHES) 0 22 0 15 0 62 0 34 0 04 0 04 | WEIGHTED RAINFAIL ENTIRE AREA (INCHES) 0 09 0 57 0 52 0 13 0 21 0 0 7 0 0 0 7 0 0 0 7 0 0 0 7 0 0 0 7 0 0 0 7 0 0 0 7 0 0 0 7 0 0 0 7 0 0 0 0 7 0 | UPPER STATION (FI. 2 45 9 2 4 1 2 5 5 5 9 7 2 8 3 2 8 8 2 7 8 8 2 7 8 8 2 7 8 8 8 7 7 8 8 8 8 | 100 000 1150 100 100 100 100 100 100 100 | (SEC. 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | TOTAL AREA FT.) 3.33.7.7.7.7.7.9.5.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0 | SUB AREA (IN OVER (IN OVER | AREA AREA OCI OCI OCI OCI OCI OCI OCI OC | (INC) 26 13 15 16 17 17 17 17 17 17 17 17 17 17 17 17 17 |
| 1 2 3 4 5 5 6 6 7 7 8 9 10 11 12 13 14 15 16 17 | 35 45 | 38 .38 .40 | \$77.33 80 ,05 | 100 100 100 100 100 100 100 100 100 | .06 .30 | M .200 .110 .15 .15 .15 .15 | .75 .35 .40 | 9 % 43% 03 04 07 01 01 02 00 01 01 02 00 01 01 02 01 01 02 01 01 01 01 01 01 01 01 01 01 01 01 01 | W AREA 2 2 3 % 57 % 05 10 08 01 05 02 02 02 | 3 10% 10% 04 01 08 | GAGE 4 115% NICHE .02 .15% .02 | 01 | 6 18 % .04 .07 .07 .03 .03 .03 | .02 | WEIGHTED RAINFALL SUB AREA (INCHES) 0 22 0 15 0 62 0 34 0 04 0 04 | WEIGHTED RAINFAIL ENTIRE AREA (INCHES) 0 09 0 57 0 52 0 13 0 21 0 0 7 0 0 0 7 0 0 0 7 0 0 0 7 0 0 0 7 0 0 0 7 0 0 0 7 0 0 0 7 0 0 0 7 0 0 0 0 7 0 | UPPER STATION (FI. 2.45 - 2.41 - 2.55 - 2.55 - 2.83 - 2.78 - 2.83 - 2.78 - 2.83 - 3.71 - 3.17 | 100 000 1150 100 100 100 100 100 100 100 | (SEC. 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | TOTAL AREA FT.) 3.33.7.7.7.7.7.9.5.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0 | SUB AREA (IN OVER) (IN OVER)) (IN OVER) (IN OVER) | AREA AREA OCI OCI OCI OCI OCI OCI OCI OC | (INC 20 13 15 15 15 15 15 15 15 15 15 15 15 15 15 |
| 1 2 3 4 5 5 6 6 7 7 8 9 10 11 12 13 14 15 16 17 | 35 45 | 38 .38 .40 | \$77.33 80 ,05 | 100 100 100 100 100 100 100 100 100 | .06 .30 | M .200 .110 .15 .15 .15 .15 | .75 .35 .40 | 9 % 43% 03 04 07 01 01 02 00 01 01 02 00 01 01 02 01 01 02 01 01 01 01 01 01 01 01 01 01 01 01 01 | W AREA 2 2 3 % 57 % 05 10 08 01 05 02 02 02 | 3 10% 10% 04 01 08 | GAGE 4 115% NICHE .02 .15% .02 | 01 | 6 18 % .04 .07 .07 .03 .03 .03 | .02 | WEIGHTED RAINFALL SUB AREA (INCHES) 0 22 0 15 0 62 0 34 0 04 0 04 | WEIGHTED RAINFAILL ENTIRE AREA (INCHES) 0 09 0 07 0 34 0 07 0 13 0 0 1 0 0 07 0 16 0 07 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | UPPER STATION (FI. 2.45 - 2.41 - 2.55 - 2.55 - 2.83 - 2.78 - 2.83 - 2.78 - 2.83 - 3.71 - 3.17 | 100 000 1150 100 100 100 100 100 100 100 | (SEC. 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | TOTAL AREA FT.) 3.33.7.7.7.7.7.9.5.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0 | SUB AREA (IN OVER) | AREA AREA OCI OCI OCI OCI OCI OCI OCI OC | (INC 20 10 10 10 10 10 10 10 10 10 10 10 10 10 |
| EAR 1 2 3 4 5 6 6 7 7 8 8 9 100 111 12 125 166 19 19 20 21 22 22 22 22 22 22 24 | 35 45 | 38 .38 .75 .60 | \$72 413 80 ,05 | 100 100 100 100 100 100 100 100 100 | .06 .30 | 1 1/20 1 1/20 1/20 1/20 1/20 1/20 1/20 1/20 1/20 | .75 .35 .40 | 9 43 43 43 43 43 43 43 43 43 43 43 43 43 | W AREA 2 2 3 4 5 7 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 3 10% 10% 04 01 08 | GAGE 4 115% NICHE .02 .15% .02 | 01 | 6 18 % .04 .07 .07 .03 .03 .03 | .02 | WEIGHTED RAINFALL SUB AREA (INCHES) 0.22 0.15 0.62 0.34 0.25 1.74 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0 | WEIGHTED RAINFAIL ENTIRE AREA (INCHES) 0.09 0.37 0.13 0.21 0.07 0.77 0.07 0.77 0.07 0.77 0.77 0.7 | UPPER STATION (FI. 2.45 - 2.41 - 2.55 - 2.55 - 2.83 - 2.78 - 2.83 - 2.78 - 2.83 - 3.71 - 3.17 | 100 000 1150 100 100 100 100 100 100 100 | (SEC. 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | TOTAL AREA 23.3.3.2.2.3.3.2.2.4.8.5.0.5.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0 | SUB AREA (IN. OVER) / / / / / / / / / / / / / / / / / / | AREA AREA AREA OC 1 AC 1 AC 1 AC 2 AC 2 AC 3 AC 3 AC 4 AC 4 AC 6 AC 7 AC 7 AC 6 AC 7 AC 7 AC 6 AC 7 (INC 20 10 10 10 10 10 10 10 10 10 10 10 10 10 |
| EAR 1 2 3 4 5 6 7 7 8 9 9 100 111 12 13 14 15 16 17 19 220 221 222 223 224 225 | 35 45 | 38 .38 .40 | \$72 413 80 ,05 | 100 100 100 100 100 100 100 100 100 | .06 .30 | 1 1/20 1 1/20 1/20 1/20 1/20 1/20 1/20 1/20 1/20 | .75 .35 .40 | 9 4 43 5 04 07 01 02 06 02 01 26 01 | W AREA 2 2 3 4 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 04 04 04 07 07 07 07 07 07 | GAGE 4 115% NICHE .02 .15% .02 | 01 | 6 18 % .04 .07 .07 .03 .03 .03 | .02 | WEIGHTED RAINFALL SUB AREA (INCHES) 0 22 0 15 0 62 0 34 0 04 0 04 | WEIGHTED RAINFAILL ENTIRE AREA (INCHES) 0 09 0 07 0 34 0 07 0 13 0 0 1 0 0 07 0 16 0 07 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | UPPER STATION (FT. 45.0 1.2.4.1 2.2.5.5.9 8.2.2.2.6.7 0.2.7.1.3.3.4.3.1.3.5.5.5.6.7.2.2.2.2.3.3.4.3.1.3.5.5.5.6.7.2.2.2.3.3.4.3.1.3.3.4.3.1.3.5.5.6.5.2.2.2.3.3.4.3.1.3.3.4.3.1.3.5.5.6.5.2.2.2.2.3.3.4.3.1.3.3.4.3.1.3.5.5.6.5.2.2.2.3.3.4.3.1.3.3.4.3.1.3.5.5.6.5.2.2.2.3.3.4.3.1.3.3.4.3.1.3.5.5.6.5.2.2.2.3.3.4.3.1.3.3.4.3.3.3.3.3.3.3.3.3.3.3.3 | LOWER STATION S. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. | (SEC. 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | TOTAL AREA 23.3.3.2.2.3.3.2.2.4.8.5.0.5.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0 | SUB AREA (IN. OVER) / / / / / / / / / / / / / / / / / / | AREA AREA OCI AREA OCI COI COI COI COI COI COI CO | (INC 20 10 10 10 10 10 10 10 10 10 10 10 10 10 |
| EAR 12234 5 5 6 6 7 8 9 9 110 111 123 114 115 116 119 120 121 122 122 122 122 122 122 122 122 | 35 45 | 38 .38 .75 .60 | \$72 413 80 ,05 | 100 100 100 100 100 100 100 100 100 | .06 .30 | 1 1/20 1 1/20 1/20 1/20 1/20 1/20 1/20 1/20 1/20 | .75 .35 .40 | 9 4 43% .034 .04 .07 .01 .02 .01 .02 .01 .02 .01 .02 .01 .02 .01 .02 .01 .02 .01 .02 .01 .02 .01 .02 .01 .02 .01 .02 .01 .02 .01 .02 .01 .01 .01 .02 .04 .04 .04 .04 .04 .04 .04 .04 .04 .04 | W AREA AREA AREA AREA AREA AREA AREA ARE | 04 04 04 07 07 07 07 07 07 | GAGE 4 115% NICHE .02 .15% .02 | 01 | 6 18 % .04 .07 .07 .03 .03 .03 | .02 | WEIGHTED RAINFALL SUB AREA (INCHES) 0.22 0.15 0.62 0.34 0.25 1.74 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0 | WEIGHTED RAINFAIL ENTIRE AREA (INCHES) 0.09 0.37 0.13 0.21 0.07 0.77 0.07 0.77 0.07 0.77 0.77 0.7 | UPPER STATION (FT. 45.0 1.2.4.1 2.2.5.5.9 8.2.2.2.6.7 0.2.7.1.3.3.4.3.1.3.5.5.5.6.7.2.2.2.2.3.3.4.3.1.3.5.5.5.6.7.2.2.2.2.3.3.3.4.3.1.3.5.5.6.5.2.2.2.2.3.3.3.4.3.1.3.5.5.6.5.2.2.2.2.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3 | LOWER STATION S. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. | (SEC. 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | TOTAL AREA FT.1 2.3.3.3.7.7.1.4.9.5.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0 | SUB AREA (IN OVER (IN O | AREA AREA OCI OCI OCI OCI OCI OCI OCI OC | (INC) 26 1.5 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 |
| 2334556778991101112151151161151199202223324225227228 | 35 45 | 38 .38 .75 .60 | \$72 13 80 05 120 180 190 190 190 190 190 190 | 100 100 100 100 100 100 100 100 100 | .06 .30 | 1 1/20 1 1/20 1/20 1/20 1/20 1/20 1/20 1/20 1/20 | .75 .35 .40 | 9 3 43 43 43 43 43 43 43 43 43 43 43 43 4 | W AREA 2 2 3 4 3 57% 05 10 00 01 32 2 00 00 00 00 00 00 00 00 00 00 00 00 | 06 00 00 00 00 00 00 00 00 00 00 00 00 0 | GAGE 4 115% NICHE .02 .15% .02 | 01 | 6 18 % .04 .07 .07 .03 .03 .03 | .02 | WEIGHTED RAINFALL SUB AREA (INCHES) 0.22 0.15 0.62 0.34 0.25 1.74 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0 | WEIGHTED RAINFAILE ENTIRE AREA (INCHES) 0 09 0 57 0 52 0 0 7 0 52 0 0 7 0 52 0 0 7 0 0 7 0 0 0 4 0 0 7 0 0 0 4 0 0 7 0 0 0 4 0 0 7 0 0 0 4 0 0 0 7 0 0 0 0 | UPPER STATION (FT. 45.0 1.2.4.1 2.2.5.5.9 8.2.2.2.6.7 0.2.7.1.3.3.4.3.1.3.5.5.5.6.7.2.2.2.2.3.3.4.3.1.3.5.5.5.6.7.2.2.2.2.3.3.3.4.3.1.3.5.5.6.5.2.2.2.2.3.3.3.4.3.1.3.5.5.6.5.2.2.2.2.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3 | LOWER STATION S. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. | (SEC. 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | TOTAL AREA FT.1 223333372248505000000000000000000000000000000000 | SUB AREA (IN OVER (IN | AREA AREA OCI OCI OCI OCI OCI OCI OCI OC | (INC) 26 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |
| 4 5 6 7 8 9 10 11 12 13 14 15 16 17 16 17 19 20 20 21 22 22 22 22 22 23 26 27 27 28 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20 | 35 45 | 38 .38 .75 .60 | \$72 413 80 ,05 | 100 100 100 100 100 100 100 100 100 | .06 .30 | 1 1/20 1 1/20 1/20 1/20 1/20 1/20 1/20 1/20 1/20 | .75 .35 .40 | 9 3 43 43 43 43 43 43 43 43 43 43 43 43 4 | W AREA AREA AREA AREA AREA AREA AREA ARE | 06 00 00 00 00 00 00 00 00 00 00 00 00 0 | GAGE 4 115% NICHE .02 .15% .02 | 01 | 6 18 % .04 .07 .07 .03 .03 .03 | .02 | WEIGHTED RAINFALL SUB AREA (INCHES) 0.22 0.15 0.62 0.34 0.25 1.74 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0 | WEIGHTED RAINFAIL ENTIRE AREA (INCHES) 0.09 0.37 0.13 0.21 0.07 0.77 0.07 0.77 0.07 0.77 0.77 0.7 | UPPER STATION (FT. 45.0 1.2.4.1 2.2.5.5.9 8.2.2.2.6.7 0.2.7.1.3.3.4.3.1.3.5.5.5.6.7.2.2.2.2.3.3.4.3.1.3.5.5.5.6.7.2.2.2.2.3.3.3.4.3.1.3.5.5.6.5.2.2.2.2.3.3.3.4.3.1.3.5.5.6.5.2.2.2.2.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3 | LOWER STATION S. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. | (SEC. 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | TOTAL AREA FT.1 2.3.3.3.1.3.4.8.5.0.5.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0 | SUB AREA (IN OVER (IN O | AREA AREA OCI OCI OCI OCI OCI OCI OCI OC | (INC) 266 179 266 179 266 179 266 179 266 179 266 179 266 179 266 179 266 179 266 179 266 179 266 179 266 179 266 179 266 179 266 179 279 179 179 179 179 179 179 179 179 179 1 |
| 1 2 3 5 6 7 7 10 112 113 114 115 116 117 119 119 122 122 123 124 125 130 131 131 131 131 131 131 131 131 131 | 350 95 175 10 10 10 10 10 10 10 10 10 10 10 10 10 | 38 -38 -25 -60 -05 -25 -60 -05 -25 -60 -75 -10 -75 -10 -75 -10 -10 -10 -10 -10 -10 -10 -10 -10 -10 | \$ R R R 130 80 ,05 | 20 1.10 20 1.10 30 30 30 30 30 30 30 30 30 30 30 30 30 | .06 .30 .55 | 1 100 | 35 35 36 37 36 37 37 37 37 37 37 37 37 37 37 37 37 37 | 1 9 3 4 4 5 4 5 6 4 5 6 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 | AREA 2 2 3 1 57 \$ 57 \$ 57 \$ 60 \$ 0 \$ 1 \$ 0 \$ 0 \$ 0 \$ 1 \$ 0 \$ 0 \$ 0 \$ | 3 10 % 10 % 10 % 10 % 10 % 10 % 10 % 10 | 02 03 03 03 03 03 04 04 04 04 04 04 04 04 04 04 04 04 04 | .01 .04 .07 .01 .01 .07 | 6 18 % 09 09 09 09 09 09 09 119 116 | 23% .02 .26 .07 .08 .09 .09 | WEIGHTED RAINFALL SUB AREA (INCHES) 0.22 0.15 0.22 0.15 0.25 1.74 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0 | WEIGHTED RAINFAIL ENTIRE AREA (INCHES) 0 09 0 57 0 52 0 0 7 0 52 0 0 7 0 52 0 0 7 0 0 7 0 0 7 0 0 7 0 0 7 0 0 7 0 0 7 0 0 7 0 | UPPER STATION (FT. 45.0 1.2.4.1 2.2.5.5.9 8.2.2.2.6.7 0.2.7.1.3.3.4.3.1.3.5.5.5.6.7.2.2.2.2.3.3.4.3.1.3.5.5.5.6.7.2.2.2.2.3.3.3.4.3.1.3.5.5.6.5.2.2.2.2.3.3.3.4.3.1.3.5.5.6.5.2.2.2.2.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3 | LOWER STATION S. | (SEC. 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | TOTAL AREA FT.) 2.3.3.3.7.2.4.6.5.0.5.0.0 1.0.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1. | SUB AREA (IN OVER (IN O | AREA AREA OCI OCI OCI OCI OCI OCI OCI OC | (INC) 26 13 16 17 17 17 17 17 17 17 17 17 17 17 17 17 |

PART III

Monthly Hydrologic Data

Monreve Ranch (W-4)

10/1/62 - 9/30/63

CENTRAL AND SOUTHERN FLORIDA FLOOD CONTROL DISTRICT & UNIVERSITY OF FLORIDA , AGRICULTURAL EXPERIMENT STATION

MONTHLY HYDROLOGIC DATA MONREVE RANCH

| DEC | | | | | | RAINF | ALL | | | | | STA | AGE | IRRIG | ATION | RU | NOFF | EVA |
|---|-----|--------|--|--------|-----|-----------|---------|-------------------|---------|-------|--|--|--|--|---|--|--|---|
| MONTH 962 | | MEASU | RED | RAINFA | LL | w | /EIGHTE | D R | AINFAL | L | TOTAL WEIGHTED | ST. LUCIE CANAL | OUTLET | CFS X HRS | (.00617)(cF9 | OUTLET WEIR | (.00617)(cF9) | STD |
| YEAR | | 2 | 3 | 4 | 5 | 18 % | 2 | 3 | 24% | 5 25% | RAINFALL | | | | | | | |
| | | | INCHE | 9) | _ | 10.4 | | NCHE | | | (INCHES) | | MSL) | | (IN./AREA) | | (IN/ARFA) | (INCH |
| 1 | | | | | | | · | | | | | 15.07 | | 12.5 | .075 | 12 | 007 | .06 |
| 3 | | - | | - | + | | | | | | | 15.00 | 16 35 | 10.0 | 0.50 | 37 | 023 | .03 |
| 4 | | | | | | | | | | | | 15.02 | 16 18 | | | 1 42 | 009 | 110 |
| 5 | 25 | - | - | - | | | - 1 | - 1 | | 1 | 0.05 | 15 00 | | 7.5 | .045 | 7.5 | .009 | 05 |
| 7 | .05 | .05 | .05 | .05 | .05 | 101 | .01 | 01 | .01 | .01 | 0.05 | 14.98 | 16.32 | 9.2 | 090 | 3 / | .019 | 07 |
| 8 | | | | | | | | | | | | 1495 | 16 30 | | | 28 | .0:7 | .07 |
| 9 | | + | | + | | | | | | | | 15.05 | 16 30 | 5.6 | 035 | 28 | 017 | 14 |
| 11 | | 1 | | | | | | | | | | 14.88 | 16 38 | 7.5 | 095 | 94 | 027 | .07 |
| 12 | | | | | | | | | | | | 1992 | 16 38 | 200 | .120 | 4 + | 027 | 37 |
| 13 | _ | + | + | + | | \vdash | | | | | | 1995 | 16 38 | 20.0 | .120 | 44 | 027 | 10 |
| 15 | | | | | | | | | | | | 1485 | 16 37 | 20.0 | 120 | 92 | 026 | .11 |
| 16 | | | + | | | | | | | | | 1481 | 16 35 | 200 | 120 | 37 | 023 | 00 |
| 17 | - | - | | - | | | | | | | | 14 73 | 16 36 | 20.0 | 120 | 39 | 024 | 04 |
| 19 | | | | | | | | | | | | 14 75 | 16 36 | 200 | ,120 | 39 | .024 | 07 |
| 20 | | - | + | | - | | | | - | - | | 19 77 | 16 36 | 20.0 | .120 | 37 | 024 | .07 |
| 22 | | | | | | | | | | | | 19 78 | 16 32 | 193 | .080 | 31 | 017 | 09 |
| 23 | .25 | ,20 | 25 | 7.0 | .25 | | 0.7 | 4.4 | 05 | N | 0.20 | 1984 | 16 13 | 1 | , we | 14 | 007 | 10 |
| 25 | 43 | ,20 | 23 | .20 | .22 | .04 | .03 | .04 | 0.5 | ·OK | 0.27 | 14 82 | 16 16 | 1 | | 10 | 606 | 09 |
| 26 | | | | | | | | | | | | 14 79 | 1613 | | 1 | 10 | 116 | 10 |
| 27 | | | | | | _ | | | | | | 1481 | 1613 | - | 3 | 10 | 206 | 10 |
| 29 | | | | | | | | | | | | 19 75 | 14.12 | 1 | 2 | 9 | 300 | 07 |
| 30 | | | 1 | | | | | | | | | 14 72 | 1611 | | | . 9 | 6 | 08 |
| 31 ATAL | .30 | .25 | 20 | 26 | 0.4 | 45 | - 1 | Aire | 4.6 | 4 4 | 0.27 | 1466 | 16-10 | 289.1 | 1.725 | 83.5 | .51+ | 2.21 |
| DATE | | (| .28 | 1) | | RAINF | ALL | _ | - | | | STA | \GE | IRRIG | ATION | RUI | NOFF | EVA |
| SON'TH | | MEAGII | | | | | | | | | | | | | | | | |
| | | | BED | DAINEA | | - w | EIGHTE | n B | APMEAL | | ľ | | | | | | | |
| | | | RED | RAINFA | LL | W | EIGHTE | D R | AINFALI | L | TOTAL | ST. LUCIE | OUTLET | | (_00617)(cF9 | OUTLET | (.00617)(cFS) | STD |
| 963 | | | GAGE | RAINFA | | - w | | D R | AINFALI | L | WEIGHTED | ST. LUCIE | OUTLET WEIR | CFS X HRS | (00617XcF9 | OUTLET WEIR | (.00617)(cFs) | STO |
| 963 | | 2 | | RAINFA | 15 | i 18 % | 2 | | 4_ | . 5 | | | | | (00617XcF9 | _ | (.006I7)(cFS) | |
| 163 | 1 | 2 | | .4 | | | 2 | GAGE | 4 24% | . 5 | WEIGHTED | CANAL | | 24 | (00617)(cF3 | WEIR | (.00617)(cFS) | PAN |
| 963 YEAR | 1 | 2 | GAGE 3 | .4 | 15 | | 2 | GAGE | 4 24% | . 5 | WEIGHTED RAINFALL | CANAL (FT. | WEIR | 24 | | WEIR (CFS) | (IN/AREA) | PAN (INCHI |
| 963 YEAR | 1 | 2 | GAGE 3 | .4 | 15 | | 2 | GAGE | 4 24% | . 5 | WEIGHTED RAINFALL | (FT. 1-163 1458 | WEIR MSL) 16 10 16 10 | 24 | | WEIR | (IN/AREA) | (INCHI |
| 963 YEAR - 2 3 | | 2 | GAGE 3 | .4 | 15 | | 2 | GAGE | 4 24% | . 5 | WEIGHTED RAINFALL | (FT. 1-163 1458 1-457 1464 | WEIR MSL) 16 10 16 10 16 09 16 08 | 24 | | (CFS) | (IN/AREA) | PAN (INCH 10 10 |
| 943 YEAR | | 2 | GAGE | 5) | 15 | 18% | 17% | GAGE 3 16% NCHES | 24% | 25% | WEIGHTED RAINFALL (INCHES) | (FT: 1943 1958 1957 1964 1969 | WEIR MSL) 16 10 16 10 16 09 16 08 16 08 | 24 | | (CFS) | (IN/AREA) 205 5 | PAN (INCH . 1 C . |
| 76.3 YEAR 1 2 3 4 5 6 | 10 | 2 | GAGE 3 | 5) | .25 | | 17% | GAGE | 24% | 25% | WEIGHTED RAINFALL | CANAL (FT. 14 63 14 58 14 57 14 64 14 67 14 67 15 03 | WEIR MSL) 16 10 16 10 16 09 16 08 16 07 16 08 | 24 | | (CFS) | (IN/AREA) | (INCH .1C .1C .14 .14 |
| 24.3 YEAR 2 3 4 5 6 7 | 10 | 20 | GAGE 3 | 5) | 15 | 18% | 2 17% | GAGE 3 16% NCHES | 24% | 25% | WEIGHTED RAINFALL (INCHES) | CANAL 1 4 3 14 58 14 57 14 64 14 67 15 03 14 77 | WEIR MSL) 16 10 16 10 16 09 16 08 16 08 16 08 16 08 | 24 | | (CFS) | (IN/AREA) 105 5 0/4 0/4 704 | (INCH .10 .10 .14 .14 .14 |
| 2 3 YEAR 2 3 4 5 6 7 8 9 10 | 10 | 20 | GAGE 3 | 5) | 15 | 18% | 2 17% | GAGE 3 16% NCHES | 24% | 25% | WEIGHTED RAINFALL (INCHES) | (FT. 19 63 19 58 19 57 19 69 19 67 19 67 19 77 19 77 19 69 19 67 | WEIR MSL) 16 10 16 10 16 09 16 08 16 08 16 08 16 08 16 08 | 24 | | (CFS) | (IN/AREA) | (INCH .16 .16 .14 c) .15 |
| 9 10 | 10 | 20 | GAGE 3 | 5) | 15 | 18% | 2 17% | GAGE 3 16% NCHES | 24% | 25% | WEIGHTED RAINFALL (INCHES) | CANAL (FT. 11 63 14 58 14 57 14 64 14 67 15 03 14 77 14 64 14 67 16 67 | MSL) 16 10 16 10 16 08 16 08 16 08 16 08 16 08 16 08 16 08 16 08 | 24 | | WEIR (CFS) (CFS) 7 7 7 7 7 | (IN/AREA) | (INCH .10 .10 .14 .15 .15 |
| 2 3 YEAR 2 3 4 5 6 7 8 9 10 | 10 | 20 | GAGE 3 | 5) | 15 | 18% | 2 17% | GAGE 3 16% NCHES | 24% | 25% | WEIGHTED RAINFALL (INCHES) | (FT. 1 4 63 14 57 14 64 14 67 14 69 14 | WEIR MSL) 16 10 16 09 16 08 16 08 16 08 16 08 16 08 16 08 16 07 16 07 | (CFS) | (IN./ AREA) | WEIR (CFS) O 8 7 7 7 7 7 | (IN/AREA) | (INCH .16 .16 .14 .15 .15 |
| 763 YEAR 2 3 4 5 6 7 8 9 10 | 10 | 20 | GAGE 3 | 5) | 15 | 18% | 2 17% | GAGE 3 16% NCHES | 24% | 25% | WEIGHTED RAINFALL (INCHES) | CANAL (FT. 14 63 14 58 14 57 14 69 14 69 14 67 | MSL) 16 10 16 07 16 08 16 08 16 08 16 08 16 07 16 07 16 07 16 07 16 12 | (CFS) (CFS) | (IN./ AREA) | (CFS) | (IN/AREA) | (INCH 10 10 10 10 10 15 15 10 10 10 10 10 10 10 10 10 10 10 10 10 |
| 76.3 YEAR 2 3 4 5 6 7 8 9 10 11 12 13 14 | 10 | 20 | GAGE 3 | 5) | 15 | 18% | 2 17% | GAGE 3 16% NCHES | 24% | 25% | WEIGHTED RAINFALL (INCHES) | CANAL (FT. 1= 6.3 1.4 5.8 1.4 5.7 1.4 6.4 1.4 6.7 1.5 0.3 1.4 7.7 1.5 0.3 1.4 7.7 1.9 6.7 | MSL) 16 10 16 10 16 07 16 08 16 08 16 08 16 07 16 07 16 07 16 16 21 | (CFS) (CFS) 6.7 20 0 20 0 | (IN./ AREA) | (GFS) (GFS) (CFS) | (IN/AREA) 105 55 54 24 24 24 24 264 264 2606 | (INCH 16 16 16 17 17 17 17 17 17 17 17 17 17 17 17 17 |
| 76.3 YEAR 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 | 10 | 20 | GAGE 3 | 5) | 15 | 18% | 2 17% | GAGE 3 16% NCHES | 24% | 25% | WEIGHTED RAINFALL (INCHES) | CANAL (FT. 13 63 14 58 14 57 14 64 14 67 | MSL) 16 10 16 07 16 08 16 08 16 08 16 08 16 07 16 07 16 07 16 07 16 12 | (CFS) (CFS) | (IN./ AREA) | (GFS) (GFS) 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | (IN/AREA) 105 55 564 204 204 204 204 206 | (INCH .10 .10 .14 .15 .15 .10 .05 |
| 76.3 YEAR | 10 | 20 | GAGE 3 | 5) | 15 | 18% | 2 17% | GAGE 3 16% NCHES | 24% | 25% | WEIGHTED RAINFALL (INCHES) | CANAL (FT. 1-4.3 1-9.58 1-9.57 1-9.6 | MSL) 16 10 16 10 16 07 16 08 16 08 16 08 16 07 16 07 16 07 16 16 16 17 | (CFS) (CFS) (6.7 20.0 20.0 20.0 20.0 20.0 | (IN./ AREA) .040 .120 .120 .120 .120 .120 | (GFS) | (IN/AREA) 105 55 64 64 64 664 669 667 | PAN |
| 76.3 YEAR 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 | 10 | 200005 | GAGE | 25 | .25 | 02,03 | .03 | GAGE 3 16% NCHES | 4 24% | .06 | WEIGHTED RAINFALL (INCHES) | CANAL (FT. 1 4 63 14 58 14 57 14 64 14 67 | MSL) 16 10 16 10 16 08 16 08 16 08 16 08 16 08 16 07 16 07 16 12 16 19 16 19 | (CFS) (CFS) 6.7 20.0 20.0 20.0 20.0 | (IN./ AREA) | WEIR (GFS) (GFS) 7 7 7 7 7 1 1 1 1 1 1 1 1 | (IN/AREA) 105 25 25 24 24 24 24 264 264 266 2010 267 267 | PAN |
| 76.3 YEAR 1 2 3 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 19 20 20 20 20 | 10 | 200005 | GAGE | 25 | .25 | 18% | .03 | GAGE 3 16% NCHES | 4 24% | .06 | WEIGHTED RAINFALL (INCHES) | CANAL (FT. 14 63 14 58 14 58 14 67 14 67 14 67 14 67 14 67 14 67 14 67 14 67 14 67 14 67 14 67 14 58 14 58 14 58 14 58 14 58 14 58 | MSL) 16 10 16 10 16 07 16 08 16 08 16 08 16 07 16 07 16 07 16 07 16 17 16 17 16 17 16 17 | (CFS) (CFS) (6.7 20.0 20.0 20.0 20.0 20.0 | (IN./ AREA) .040 .120 .120 .120 .120 .120 | (GFS) | (IN/AREA) 105 55 64 64 64 664 669 667 | PAN |
| 74.3 YEAR 1 2 3 4 5 6 7 8 9 9 10 11 12 13 14 15 16 11 11 11 11 11 11 11 11 11 11 11 11 | .75 | 200005 | GAGE 3 | 25 | ,25 | 0203 | .13 | GAGE 3 16 % NOHES | 4 24% | 25% | WEIGHTED RAINFALL (INCHES) O: 23 O: 04 | CANAL (FT. 14 6.3 1.4 5.8 1.4 5.8 1.4 6.7 1.4 | WEIR MSL) 16 10 16 10 16 08 16 08 16 08 16 08 16 07 16 07 16 16 16 17 16 17 16 17 16 17 16 16 16 17 16 16 16 17 16 16 16 17 16 16 16 17 | (CFS) (CFS) (6.7 20.0 20.0 20.0 20.0 20.0 | (IN./ AREA) | WEIR (GFS) (GFS) 7 7 7 7 7 1 1 1 1 1 1 1 1 | (IN/AREA) 105 55 144 144 144 144 144 144 | PAN |
| 74-3 YEAR 2 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 10 11 12 13 14 15 16 16 16 16 16 16 16 16 | .75 | 200005 | GAGE 3 | 25 | .25 | 0203 | .03 | GAGE 3 16 % NOHES | 4 24% | 25% | WEIGHTED RAINFALL (INCHES) | CANAL (FT | WEIR MSL) 16 10 16 10 16 08 16 08 16 08 16 07 16 07 16 07 16 17 16 17 16 17 16 17 16 17 16 16 16 17 16 16 16 17 16 16 16 17 16 16 16 17 16 16 16 17 16 16 16 17 16 16 16 17 16 16 16 17 16 16 16 17 16 16 16 17 16 16 16 17 16 16 16 17 16 16 16 17 16 16 16 17 16 16 16 17 16 16 16 16 16 16 16 16 | (CFS) (CFS) (6.7 20.0 20.0 20.0 20.0 20.0 | (IN./ AREA) | WEIR (CFS) (CF | 00/4 00/4 00/4 00/4 00/4 00/4 00/4 00/4 00/4 00/4 00/4 00/7 00/7 00/7 00/7 00/7 00/7 | RAN |
| 74-3 YEAR 1 2 3 4 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 20 22 23 24 25 | .75 | 200005 | GAGE 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 25 | ,25 | 0203 | .13 | GAGE 3 16% NCHES | 4 24% | 25% | WEIGHTED RAINFALL (INCHES) | CANAL (FT. 14 63 14 58 14 57 14 67 17 67 14 67 17 67 14 67 17 14 67 17 | MSL) 16 10 16 07 16 08 16 08 16 08 16 07 16 07 16 07 16 10 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 16 17 16 17 16 17 16 17 16 16 17 16 17 16 17 16 16 17 16 16 17 16 17 16 16 17 16 16 17 16 16 17 16 16 17 16 16 16 17 16 16 16 17 16 16 16 17 16 16 16 17 16 16 16 17 16 16 16 17 16 16 | (CFS) (CFS) (6.7 20.0 20.0 20.0 20.0 20.0 | (IN./ AREA) | WEIR (GFS) (GFS) 7 7 7 7 7 7 1 4 1 2 | (IN/AREA) 105 5 5 64 64 64 664 667 667 667 | RAN (INCH 1/2 1/ |
| 74-3 YEAR 2 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 10 11 12 13 14 15 16 16 16 16 16 16 16 16 | .75 | 200005 | GAGE 3 | 25 | ,25 | 0203 | .13 | GAGE 3 16 % NOHES | 4 24% | 25% | WEIGHTED RAINFALL (INCHES) O: 23 O: 04 | CANAL (FT | MSL) 16 10 16 10 16 08 16 08 16 08 16 07 16 07 16 07 16 12 16 17 16 16 | (CFS) (CFS) (6.7 20.0 20.0 20.0 20.0 20.0 | (IN./ AREA) | WEIR (CFS) (CF | (IN/AREA) 105 5 64 64 64 664 664 667 667 66 | RAN (INCH 1/2 1/ |
| 74-3 YEAR 1 2 3 4 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 20 20 20 20 20 20 20 20 20 20 20 20 | .75 | 200005 | GAGE 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 25 | ,25 | 0203 | .13 | GAGE 3 16% NCHES | 4 24% | 25% | WEIGHTED RAINFALL (INCHES) | CANAL (FT. 1-4.3 1-9.58 1-9.57 1-9.6 | MSL) 16 10 16 10 16 08 16 08 16 08 16 08 16 07 16 07 16 07 16 07 16 16 16 17 16 17 16 16 16 17 16 16 16 17 16 16 16 17 16 16 16 17 16 16 16 16 16 16 16 16 16 16 | (CFS) (CFS) (6.7 20.0 20.0 20.0 20.0 20.0 | (IN./ AREA) | WEIR (GFS) (GFS) 7 7 7 7 7 7 1 4 1 2 | (IN/AREA) 105 5 5 64 64 64 664 667 667 667 | RAN (INCH 1/2 1/ |
| 94-3 YEAR I 2 3 4 4 5 6 9 9 10 11 12 13 14 15 16 17 18 19 20 21 22 22 23 24 25 26 27 28 29 | .75 | 200005 | GAGE 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 25 | ,25 | 0203 | .13 | GAGE 3 16% NCHES | 4 24% | 25% | WEIGHTED RAINFALL (INCHES) | CANAL (FT | MSL) 16 10 16 10 16 08 16 08 16 08 16 08 16 07 16 08 16 07 16 12 16 17 16 17 16 17 16 17 16 17 16 17 16 16 16 17 16 16 16 17 16 16 16 17 16 16 16 17 16 16 16 17 16 16 16 17 16 16 16 17 16 16 16 17 16 16 16 17 16 16 16 17 16 16 16 17 16 16 16 17 16 16 16 17 16 16 16 17 16 16 16 16 16 16 16 16 16 16 16 16 | (CFS) (CFS) (6.7 20.0 20.0 20.0 20.0 20.0 | (IN./ AREA) | WEIR (CFS) (CF | 00/4 00/4 00/4 00/4 00/4 00/4 00/4 00/4 | PAN |
| 94-3 YEAR 1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 20 21 22 23 24 25 26 | .75 | 200005 | GAGE 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 25 | ,25 | 0203 | .13 | GAGE 3 16% NCHES | 4 24% | 25% | WEIGHTED RAINFALL (INCHES) 0.23 0.04 0.72 0.06 | CANAL (FT. 14 63 14 58 14 67 14 67 14 67 14 67 14 67 14 67 14 67 14 67 14 67 14 67 14 67 14 67 14 67 14 67 14 60 | MSL) 16 10 16 10 16 08 16 08 16 08 16 08 16 07 16 07 16 07 16 07 16 16 16 17 16 16 16 17 16 16 16 17 16 1 | (CFS) (CFS) (6.7 20.0 20.0 20.0 20.0 20.0 | (IN./ AREA) | WEIR (GFS) O 2 7 7 7 7 7 7 1 4 1 2 1 2 1 2 1 2 1 2 1 2 1 2 | (IN/AREA) 105 5 64 64 64 664 667 667 667 | PAN |

CENTRAL AND SOUTHERN FLORIDA FLOOD CONTROL DISTRICT & UNIVERSITY OF FLORIDA , AGRICULTURAL EXPERIMENT STATION

MONTHLY HYDROLOGIC DATA MONREVE RANCH

FLORIDA WATERSHED W-4

| DATE | | | RAINFALL | | | | STA | AGE | IRRIG | ATION | RU | NOFF | EVAP. |
|--------------|---------------|----------|----------|-------------|---------------|----------------------|-----------|--------|-----------|--------------|----------------|---------------|--------|
| MONTH | MEASURED R | AINFALL | WEIGHT | ED RAINFALL | | TOTAL | ST. LUCIE | OUTLET | CF9 X HRS | (.00617)(cFS | | (.00617)(cFS) | |
| 1963 YEAR | GAGE | 4 5 | 1 2 | GAGE | 8 | WEIGHTED RAINFALL | CANAL | WEIR | 24 | | WEIR | | PAN |
| | UNCHES | | | 16% 24% | 25% | (INCHES) | (FT | MSL) | (CFS) | (IN. / AREA) | (CFS). | UN/AREAL | MICHES |
| | - INVITED | | | IN OTHER | - | (IIIOIILD) | .14 25 | | 107.07 | Contract and | 11 | .007 | .14 |
| 2 | | | | | _ | | 14.20 | | 5 | -5 | 1.0 | .006 | 18 |
| 3 | | | | | - | | 14 30 | | 58 | .635 | 1.0 | 006 | 18 |
| 4 | | | | | | | | 16.18 | 5.8 | 035 | 1.4. | 009 | .18 |
| 5 | | | | | | | | 16.19 | 67 | 040 | 1-4 | .009 | .20 |
| _ 6 | | | | | | | 14.45 | 16 24 | 20 | .120 | 1.9 | .012 | .20 |
| 7 | اسانات الم | | | | | | 14.57 | 16.32 | 20 | .120 | 31 | .019 | .19 |
| 8 | | | | | | | | 16-27 | 20 | 126 | 23 | .014 | .12 |
| 9 | | | | | | | | 16.30 | 15 | 090 | 2.8 | -017 | .19 |
| 10 | | | | | | | | 16 27 | 133 | .080 | 2.3 | 014. | 24 |
| 11 | | | | | _ | | | 16.28 | 20 | -120 | 2.5 | 1015 | .29 |
| 13 | | | | | | | 14 24 | 16.28 | 20 | 120 | 25 | 015 | 20 |
| 14 | | | | - | \rightarrow | | 14 27 | 16.27 | 20 | 120 | 18 | .011 | 15 |
| 15 | | | | | | | 14.17 | 16 22 | 20 | 120 | 1.7 | -010 | 23 |
| 16 | | | | | | | 1396 | 16 22 | 20 | 120 | 1.7 | 010 | 23 |
| 17 | | | | | | | 13.94 | 16 22 | 20 | 120 | 15 | 010 | 18 |
| 18 | | | | | | | 1396 | 16.21 | 20 | 120 | 1.6 | .610 | 20 |
| 19 | | | | | | | 1392 | 16 20 | 20 | .120 | 1.5 | 009 | 22 |
| 20 | | | | | | | 13,89 | 16 20 | 20 | 120 | 15 | 009 | 10 |
| 21 | | | | | | | 13.96 | 16 20 | 20 | 120 | 15 | 037 | .20 |
| 22 | | | | | _ | | 13.85 | 16.21 | 10.8 | 065 | 1 10 | 010 | 20 |
| 23 | | | | | _ | | 14.10 | 16 17 | / | | 12 | .007 | 20 |
| 25 | 70 (10 (00 | 70 05 | 0.30.0 | 0.4 | 201 | . 77 | 19.00 | 16.13 | | - (| 10 | 006 | 21 |
| 26 | .70 1.10 1.00 | . /7 .75 | 0.17 | 0.16 0.18 | 0.11 | 0// | 13.80 | 16.12 | - | 1 | | 006 | 23 |
| 27 | | | | | | | 13.67 | 16 13 | -) | | 10 | 006 | 14 |
| 28 | | | | | | | 13 54 | 16 10 | 1 | | 8 | 005 | 27 |
| 29 | | | | | - | | 13.35 | 14.07 | | | .8 | 005 | 22 |
| 30 | | | | | | | 1359 | 16.08 | 3 | | .7 | .004 | .15 |
| 31 | | | | | | | | | 1 | / | | | |
| TOTAL | 070 1.10 100 | 079 045 | 013 0 19 | 06018 | 0.// | 0 77 | | | 337.4 | 2.025 | 47.5 | .290 | 5 75 |
| | (080 |) | | | | | | | | | LO.A., A.B.B., | | |
| | | / | | | | | | | | | | | |

| DATE | | | | | | RAINF | ALL | | | | | STA | GE | IRRIG | ATION | RU | NOFF | EVAP. |
|----------|-------|--------|-------|---------|------|-------|--------------|--------|--------|----------|----------|-----------|--------|-------|---------------|----------------|---------------|-------|
| MONTH | W | MEASUF | RED F | RAINFAI | LL | W | EIGHTI | D R | AINFAL | L | TOTAL | ST. LUCIE | OUTLET | | (.00617)(cF9) | OUTLET | (.00617)(CF9) | STD. |
| 1963 | | | GAGE | | | | | GAGE | | | WEIGHTED | CANAL | WEIR | 24 | | WEIR | | PAN |
| YEAR | | 2 | 3 | 4 | . 5 | 18 % | 9 | 3 | 4 | 5 | RAINFALL | | | | | | | |
| | | - 11 | NCHES | 1) | 1 | 18 % | 17 % | INCHE! | | 25% | (INCHES) | (FT | MSL) | (CFS) | DN. / AREA) | (CFS) | (IN/AREA) | MOUES |
| | .20 | | . 26 | | .15 | .04 | .03 | | | 09 | 0.21 | 13.80 | 16.09 | 108 | | 0.8 | .005 | 14 |
| 2 | . 20 | | . 20 | 130 | 110 | 194 | 103 | , 00 | 101 | .04 | 0. 2 | 13.86 | 16.09 | 20 | .065 | 12 | .007 | 14 |
| 3 | 2.05 | 2 00 | 2.10 | 205 | 2.30 | .37 | .34 | .34 | .45 | .58 | 212 | 13 25 | 16.50 | 5.8 | 035 | 14 | .086 | 1/8 |
| 4 | | | | | | | | | | | | 13.85 | 16 56 | 1 | 1 | 11 | .068 | .37 |
| 5 | | | | | - | | | | | | | 13 83 | 16.38 | | - 1 | 94 | .627 | .19 |
| 6 | | | | | - | | | | _ | | | 1397 | 16.29 | | 7 | 26 | 016 | .20 |
| 7 8 | | - | | | - | | | | - | - | | 1374 | 16 24 | | / | 1.9 | 012 | .20 |
| 9 | | | | | + | | | | - | \vdash | | 13 77 | 16 19 | 9.2 | .055 | 14 | 205 | .21 |
| 10 | | - | | | + | | | _ | | \vdash | | 13.47 | 16 11 | 20 | .126 | 19 | 006 | .21 |
| 11 | | | | | | | | | | | | 13.76 | 16. 23 | 5.8 | ,035 | 18 | .011 | .29 |
| 12 | | | | | | | | | | | | 13 77 | 16.11 | | 1 | .9 | 1006 | .15 |
| 13 | | | | | | | | | | | | 1337 | 15.67 | _ | | 7 | 064 | .20 |
| 14 | .10 | | | | | 07 | | | | ļ | 002 | | 16.04 | | | 6 | 104 | 18 |
| 15 | | | | | | _ | | | - | | | 13.6/ | 16 03 | - | | . 5 | 063 | .20 |
| 17 | | | | | | | | | - | - | | 13.60 | 16.02 | 14.0 | .065 | 5 | 003 | 25 |
| 18 | | | | | | | | | | | | 1351 | 16.08 | 12.5 | .075 | 4 | 404 | .22 |
| 19 | | | | | | | | | | | | | 16.09 | 14 5 | 013 | 6 | 1007 | 23 |
| 20 | | | | | | | | | | | | 10.00 | 16 06 | 133 | .080 | 1, | .004 | -26 |
| 21 | .86 | ,37 | . 45 | 1.30 | 1. 7 | .15 | .06 | .10 | -31 | .29 | 0.91 | 13.94 | 16 25 | B.3 | .050 | 2.2 | .014 | 20 |
| 22 | | _ | | | | | | | | | | | 16.12 | | | 9 | .006 | .13 |
| 23 | 3.5 | .Z.5° | .90 | . 15 | .15 | 06 | .04 | .06 | ,04 | .04 | 0.24 | 13.45 | 16 08 | - | | .7 | 609 | .16 |
| 24 25 | | | | | | | | | | | | 13 24 | 16 06 | - | - | .6. | 004 | .21 |
| 26 | .15 | -10 | -10 | .05 | .10 | .03 | .02 | .02 | .01 | .02 | 010 | 13.27 | 16.03 | 1 | 1 | . 5 | 003 | 16 |
| 27 | . 1.1 | 10 | - () | , 00 | | 20.3 | 105 | 20. | 101 | , 2 2 | 010 | 13 35 | 16.02 |) | | .5 | 003 | 19 |
| 28 | .05 | .35 | .25 | .15 | .15 | .01 | .06 | .04 | .04 | .04 | 019 | 13 41 | 16 02 | / | | | 003 | |
| 29 | 50 | 90 | 40 | | | .09 | | | .20 | .18 | 060 | 13 | 16 10 | | | 1.3 | A08 | .09 |
| | 1.15 | .85 | | | 120 | .21 | .14 | | | .30 | 095 | | 16 43 | 1 | | 65 | 640 | .10 |
| 31 | | | | | | | | | | | 100 | | 16.37 | | | 4.2 | .026 | .18 |
| TOTAL | 5.91 | 452 | 4.50 | 585 | 592 | .98 | .76 | .71 | 1.90 | 1.49 | 534 | >< | >< | 116.5 | .700 | 65.1 | | 5.90 |
| | | 1 | 524 |) | | | | | | | | | | | | .O.A. , A.R.D. | | -44 |

CENTRAL AND SOUTHERN FLORIDA FLOOD CONTROL DISTRICT & UNIVERSITY OF FLORIDA , AGRICULTURAL EXPERIMENT STATION

MONTHLY HYDROLOGIC DATA MONREVE RANCH

FLORIDA WATERSHED W-4

| MEASI | JRED F | | | | | | | | | 316 | \GE | 11/1/10/ | ATION | L NO | NOFF | EVAP. |
|--------|-----------|---------|--------------------|------|--|-------|---------|------|----------------------|-----------|------------------------------------|---|--|---|---|--|
| | | RAINFAL | .L | W | EIGHTE | D R | AINFALI | - | TOTAL | ST. LUCIE | OUTLET | | (.00617)(cF9 | | (.00617)(cFS) | - 1 |
| 2 | GAGE 3 | 4 | | 1 | 2 | GAGE | 4 | 5 | WEIGHTED RAINFALL | CANAL | WEIR | 24 | | WEIR | | PAN |
| | ANIGNE | 100 | | 18 % | 17 % | | 24% | 25% | 410.1 m 1 m @s | / | | 10.00 | has diament to | iamai | free famm and | (a) a come |
| | (INCHES | 31 | , - | | | NCHES | 1 | | (INCHES) | (FT. | MSL) | (CFS) | (IN / AREA) | - | (IN/AREA) | The same of the sa |
| | | 1.00 | | _ | | | | | | 12.77 | 1608 | | / | 07 | .004 | ,17 |
| - | | ,15 | | | | | ,04 | | 004 | 12 77 | 16.05 | | 1 | - 6 | 004 | .24 |
| | .10 | - | .21 | .04 | | 02 | | .05 | 0.17 | 12 90 | 16 03 | | 1 | 5 | .003 | 19 |
| - | .70 | .15 | - 4-1 | 1000 | | 02 | .04 | . 03 | 011 | 12.76 | 16.02 | 1 | - | 5 | ,603 | 11 |
| | | 175 | | | | | 107 | | 0.114 | 12.66 | 16.02 | | | -5 | .003 | 20 |
| | | | | | | | | | | 12 68 | 16 00 | | 1 | -1 | 002 | 28 |
| .25 | . 25 | .15 | | | .04 | .04 | .04 | | 0.12 | 12 60 | 16.00 | | - | 4 | .002 | 27 |
|) .60 | | 30 | .20 | .02 | .10 | 50 | .07 | .05 | 0.26 | 12 76 | 15.99 | 67 | .040 | 4 | 002 | 15 |
| 5 65 | 55 | .60 | ,20 | .02 | 11 | ,09 | .14 | 05 | 0.41 | 12.68 | 1602 | 13.3 | 080 | -5 | 003 | .11 |
| | | .10 | ,25 | | | | .02 | .06 | 0.08 | 12 70 | 16.04 | | | 6 | 004 | 29 |
| ,20 | 110 | .35 | .25 | .09 | ,03 | 20 | 08 | 06 | 0.28 | 12.64 | 16.02 | | | - 5 | .003 | .13 |
| - | - | .10 | ,10 | | | | .02 | 02 | 004 | 1260 | 16 00 | 1 | -/ | 4 | 002 | .17 |
| 2 | | | | 02 | | | | | 0 02 | 1265 | 15.95 | - | - | 4 | .002 | 23 |
| 5 1.30 | 95 | 1.70 | .80 | -10 | .22 | .14 | 41 | .20 | 107 | 1257 | 1598 | | 1 | 4 | .002 | 32 |
| | | 1-70 | | 110 | - | - | | .20 | 7.5 | 12.55 | 16 00 | 3 | | 4 | 002 | .13 |
| .50 | | 20 | | | .08 | .05 | .05 | | 018 | 17.49 | 1597 | - 7 | ., | 4 | 002 | 24 |
| .30 | | .30 | .10 | .0.3 | .05 | .03 | .07 | 03 | 0.21 | 12.90 | 15.98 | | 1 | 9 | 002 | .17 |
| .83 | | .60 | .425 | .10 | 114 | .14 | .14 | .11 | 0.63 | 12 95 | 1601 | 1 | | 4 | .002 | 17 |
| 30 | | .90 | 3.5 | .05 | .05 | | .10 | .09 | 035 | 12 43 | 1628 | 1 | | 48 | 030 | 04 |
| .53 | .05 | ,05 | | | .09 | 01 | .01 | | 0.01 | 12.58 | 16 42 | 1 | - | 5.4 | 033 | 13 |
| -33 | .20 | ,00 | | | .09 | .03 | .07 | - | 013 | 1258 | 16 25 | , | (| 26 | -012 | 17 |
| | + | | | | | | | | | 12 58 | 16 20 | 4 | - | 15 | 009 | 13 |
| .10 | 10 | | | | .02 | .02 | | | 004 | 12 52 | 16.24 | 5.8 | 035 | 23 | .014 | 19 |
| | | | | | | | | | | 12 54 | 16 26 | 1 | 10 | 22 | 014 | .12 |
| | | | | | | | | | | 1258 | 1614 | 5 | 5 | 10 | 006 | .20 |
| | | | | | | | | | | 1253 | 1604 | 13.3 | . 080 | ,6 | 004 | .13 |
| | | | | | | | | | | 2 32 | 16.01 | (| _ | 9 | 002 | 2/ |
| | | | | | | | | | | 12.96 | 15 99 | 1 | 2 | | 102 | 20 |
| 560 | - | 100 | 291 | .97 | 93 | .67 | 1.23 | .72 | 4.02 | >< | >< | 39./ | .235 | 325 | .199 | 577 |
| 5 | 60 | - | 60410515 (4.06) | | The second secon | | | | | | 60410515291 47 93 .67 .23 .72 4.02 | 12 6 16 14 12 5 3 16 04 12 5 3 16 04 12 5 3 16 04 12 5 16 01 12 96 15 99 | 12 5 3 16 04 13.3 12 5 3 16 04 13.3 | 12 53 16 14 12 53 16 04 13.3 .080 12 52 16 61 (12 72 16 61 (12 76 18 77 1 12 76 | 12 53 16 14 5 10 10 12 53 16 04 13 3 .080 .6 12 53 16 04 13 3 .080 .6 12 12 16 17 1 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | 12 53 16 14 5 10 006 12 53 16 04 13.3 .080 .6 604 12 53 16 04 13.3 .080 .6 604 12 76 16 01 9 9 002 12 76 15 99 1 9 002 60 4 0 5 15 29 1 9 9 002 39.1 .235 325 .199 |

| DATE | | | | | | RAINF | ALL | | | | | STA | \GE_ | IRRIG | ATION | RU | NOFF | EVAP. |
|---------------|-----|--------|-----------|---------|-------|-------|--------|-----------|--------|----------|----------------------|-----------|--------|-------|--------------|-------------|---------------|--------|
| SEPT MONTH | М | IEASUF | RED F | RAINFAL | _L | W | EIGHTE | ED R | AINFAL | L | TOTAL | ST. LUCIE | OUTLET | | (.00617)(cF9 | OUTLET | (.00617)(cF9) | STD. |
| YEAR | 1 | 2 | GAGE 3 | 4 | 5 | 18 % | 2 | GAGE 3 | 4 24% | 25% | WEIGHTED RAINFALL | CANAL | WEIR | 24 | | WEIR | | PAN |
| | | -{ | NCHE | 3) | | | | INCHE | | | (INCHES) | (FT. | MSL) | (CFS) | (IN. / AREA) | (CFS) | (IN/AREA) | UNCHES |
| 1 | | | | | | | | | | | | 2.47 | 15.98 | 1 | - | 4 | .002 | 20 |
| 2 | | ,90 | .25 | .35 | | | .07 | .04 | .08 | | 0 19 | 12.33 | 1548 | 1 | | .4 | .003 | 110 |
| _ 3 | | | | | - | | - | - | | <u> </u> | | 12.45 | | | | 3 | 2 | .06 |
| 5 | .15 | | ,25 | ,15 | .10 | .03 | | .04 | 04 | .10 | 0.21 | 1241 | 15.96 | 1 | | 3 | 402 | 19 |
| 6 | .65 | 40 | 115 | 15 | 105 | .12 | .10 | .18 | .16 | . 36 | 092 | 12:47 | 15 97 | - | | | 0.2 | . 14 |
| 7 | | .25 | | .15 | /17.3 | .02 | .04 | | ,04 | . 3 (2 | 012 | 12.50 | 16.02 | | | 5 | .003 | . 22 |
| 8 | .35 | .15 | - | .10 | 30 | .06. | .03 | 02 | JUT | 08 | 017 | 12.50 | 16 01 | / | | 4 | 003 | 103 |
| 9 | | | | | | | | | | | - | 12 43 | 1601 | 1 | | .4 | 003 | .45 |
| 10 | | | | | | | | | | | | 12-41 | 1601 | 1 | | 4 | 002 | .19 |
| 11 | | 180 | 130 | 175 | 195 | | .31 | .21 | .42 | .36 | 155 | 12:30 | | | | -4 | .003 | 117 |
| 12 | .65 | | | .10 | 145 | .12 | | | .02 | 36 | 0 50 | 12.88 | 1601 | 1 | | 14 | 002 | 113 |
| 13 | 4.0 | | | | .95 | - 107 | - | - 3 | | m 4 | | 12.35 | 1601 | | | 4 | 00.3 | 2,2, |
| 15 | .40 | | .10 | _ | .30 | .07 | | .02 | - | 24 | 0.33 | 12.34 | 16 03 | | | .5 | 003 | .11 |
| 16 | | .35 | .90 | .80 | 60 | .07 | .06 | .06 | 10 | .08 | 0.17 | 10.02 | 16.05 | | | | 009 | .15 |
| 17 | 110 | 130 | .50 | ,00 | -60 | | .06 | -0.2 | | . 13. | 0.36 | | 14 05 | 1- | | 6 | 4 | -06 |
| 18 | | | .05 | | .10 | | | .01 | | .62 | 0 03 | | 16 04 | | | 4 | 64 | .13 |
| 19 | .75 | ,50 | .65 | .55 | SEC | .14 | .08 | .10 | .13 | 20 | 0.65 | 12.24 | | | | 8.8 | 154 | 107 |
| 20 | 05 | 110 | ,10 | | .0.5 | .01 | 02 | 02 | .01 | 01 | 007 | 12.27 | | 1 | | 14 | 086 | .34 |
| 21 | ,10 | ,05 | | 21 | .20 | .02 | 01 | | 05 | 05 | 013 | 12.20 | | | | 62 | 439 | .24 |
| 22 | | .25 | .20 | | .30 | .04 | 04 | .03 | 07 | .07 | 025 | | | | | 47 | .627 | ,06 |
| 23 | 50 | .45 | 90 | | 6.5 | 29 | .08 | .06 | ,17 | 16 | 0 56 | 12.19 | | - | | 60 | 037 | .12 |
| 25 | 80 | .50 | .75 | .40 | 1.60 | .14 | OR | 12 | .34 | .40 | 108 | 12.36 | 1648 | 1 | | 72 | 0.24 | -09 |
| 26 | .43 | 73 | -60 | .40 | 219 | .00 | 05 | .10 | ./0 | .10 | 0 76 | | 16 70 | - | | 19 | 117 | .27 |
| 27 | | | | | - | | | | | | | 12.46 | 1664 | | | 5 1 | 031 | . 14. |
| 28 | | | | | | | | | | | | 12.45 | | | | 2.3 | .014 | 115 |
| 29 | | | | | | | | | | | | 12.77 | | | | 30 | 018 | 111 |
| 30 | | | | | = | | | | | | | 12.82 | | | | 20 | 012 | :23 |
| TOTAL | 710 | | | | 17.00 | 129 | 100 | 1.06 | 182 | 274 | 7.91 | | >< | | - | 1610 | .622 | 5.01 |
| | | (| 764 |) | | | | | | | | | | | M.B | .A.A A.R.B. | JULY 1989 | 7.6 |

PART IV

Monthly Hydrologic Data
Plantation Field Laboratory

1963

Division 1 - Rainfall, Air Temperature, Wind, Relative Humidity

HYDROLOGIC DATA - PLANTATION FIELD LABORATORY FORT LAUDEHDALE, FLORIDA

| TOT. | 31 | 30 | 23 | 28 | 27 | 26 | 25 | 12 | 23 | 83 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | # | 13 | 12 | 11 | 10 | 0 | 8 | 7 | 0 | 5 | 4 | 3 | N | _ | (YR.) | (MO.) | MAR |
|------|-----|------|----|----|----|----|----|-----|----|----|----|-----|-----|-------|----|----|-----|-----|----|----|----|----|----|----|------|-----|----|----|----|----|----|-------|-------|----------------|
| 0.19 |) | 0.15 | | | | | | | | | | | | | | | | | | | | | | | 0.04 | | | | | | | | (MT) | RAINFALL |
| 872 | 00 | 78 | 00 | 00 | 87 | 78 | 76 | 74 | 72 | 75 | 91 | 87 | 00 | 87 | 88 | 87 | 85 | 86 | 20 | 84 | 28 | 80 | 77 | 73 | 89 | 84 | 82 | 83 | 88 | 20 | 75 | | MAX. | AIF |
| 62.3 | | 56 | 60 | 58 | 57 | 57 | 62 | 59 | 48 | 49 | 61 | 6 | 6 | 63 | 68 | 71 | 63 | 6 | 63 | 70 | 71 | 60 | 64 | 56 | 62 | 68 | 71 | 72 | 65 | 68 | 58 | | NIN. | AIR TEMP. (°F) |
| 722 | 74 | 67 | 72 | 72 | 70 | 68 | 69 | 67 | 60 | 62 | 76 | 74 | 74 | 75 | 77 | 79 | 74 | 74 | 74 | 72 | 79 | 70 | 71 | 65 | 76 | 76 | 77 | 78 | 77 | 75 | 66 | | M | *) |
| 211 | 160 | 400 | 29 | 27 | 42 | 44 | 79 | 71 | 60 | 77 | 84 | 37 | 29 | 32 | 50 | 35 | 28 | 7.9 | 44 | 55 | 43 | 44 | 73 | 47 | 67 | 200 | 72 | 63 | 4 | 00 | 00 | | (MT_) | MIM |
| | 004 | 85 | 84 | 00 | 96 | 20 | 74 | 104 | 67 | C) | 73 | 860 | 007 | 00.71 | 87 | 83 | 200 | 90 | 94 | 0 | 89 | 91 | 80 | i | 1 | 97 | 93 | - | 1 | 1 | 79 | | Pol | MEAN WID. |
| | | | | | | | | | | | | d | | | | | | | | | | | | | | | | | | | | | | REMARKS |

| | TOT. 0.8 | 31 | 30 | 33 | 28 | 27 | 26 | 25 | 24 | 23 | 13 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 7 | 13 | 12 | 11 | 10 | 9 | 8 0. | 7 | 6 | -Ji | 4 0. | 31 | 2 | 1 0. | 963 (YR.) | (MO.) (TN. | 7.4 |
|-------|----------|----|----|----|-----|----|----|----|----|----------|----|----|-----|-----|----|----|----|----|----|----|----|-----|-----|-----|----------|----|----|-----|------|-----|-----|------|--------------|------------|--------------|
| | | | | | | | | | | | | | | | | | | | | | | | | | 0.64 | | | | 0.02 | | 20 | 0 | | - | |
| 0 100 | 2520 | | 82 | 80 | 84 | 92 | 89 | 9- | 87 | 87 | 86 | 20 | 84 | 82 | 79 | 80 | 79 | 78 | 90 | 91 | 90 | 87 | 28 | 28 | <u>a</u> | 28 | 84 | 00 | 200 | 00 | 78 | 76 | | YAY. | |
| 211 | 1846 | | 70 | 70 | 71 | 73 | 64 | 65 | 61 | 60 | 59 | 59 | 56 | 57 | 60 | 60 | 48 | 45 | 52 | 68 | 63 | 60 | 57 | 58 | 57 | 66 | 60 | 57 | 63 | 70 | 70 | 70 | | WIN. | |
| 0 | 2185 | | 76 | 75 | 78 | 20 | 76 | 78 | 74 | 74 | 72 | 72 | 70 | 70 | 70 | 70 | 64 | 50 | 71 | 80 | 76 | 74 | 71 | 600 | 69 | 76 | 72 | 70 | 72 | 75 | 74 | 73 | | NA | |
| 1 | 1814 | | 77 | 28 | 00 | 63 | 35 | S | 42 | w 00 | 32 | 4 | 5 | 35 | 50 | 40 | 35 | S | SI | 43 | 44 | 57 | 55 | 25 | 53 | 55 | 24 | 42 | 82 | 124 | 176 | 192 | | (MI.) | |
| | | | 77 | 72 | 000 | 8 | 89 | 92 | 90 | Oo Oo | 87 | 86 | 000 | 004 | 00 | 69 | 65 | 1 | 1 | 1 | 1 | 860 | 200 | 88 | 90 | 20 | 25 | 87 | 92 | 87 | 97 | 94 | | Pe | * WATT STORY |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

HYD ROLOGIC DAT

1003) ("OW) 1701, 1701,

(IN.)

MAX.

NIN.

(MI.) MIND

MEAN WID.

RAIN PALL

AIR TEMP. (OF)

| H | 7 |
|--------------|-------------|
| E | 1 |
| AUDERDALE, I | PLANTATION |
| ď | _ |
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| | SO OF | 79 | 78 | 87 | B | 1 | 1 | 26.5 | 92 | 95 | 9 | 88 | 00 | 87 | 80 | 20 | 20/0 | 87 | 84 | 84 | 710 | 79 | 75 | 79 | 84 | 86 | 1 | 80 | 20 | 20 | 82 | | M | REL HUM. |
|-------|-------|----|----------|------|------|----|----|------|------|------|------|------|------|------|----|----|------|------|----|------|-----|----|----|----|-----|------|------|----------|------|----|------|-------|-------|----------------|
| 895 | 60 | 49 | 43 | 20 | Ji | 7 | P | 75 | 10 | JT | 20 | 30 | 28 | 121 | 20 | 29 | 26 | 29 | 27 | 11 | ענ | 74 | 25 | 34 | 200 | 40 | 71 | 30 | 40 | 28 | 28 | | (MI.) | MIM |
| 2.567 | 28 | 82 | CO CO | 84 | a | 84 | 28 | 28 | 8 | 82 | 82 | 20 | 82 | 84 | 84 | 2 | 33 | 24 | 84 | 84 | 84 | 86 | מט | 00 | 82 | 200 | 29 | SO CU | 82 | 87 | 18 | | M | 3 |
| 2758 | 74 | 74 | 760 | 75 | 73 | 74 | 72 | 73 | 70 | 71 | 79 | 70 | 71 | 73 | 73 | 73 | 74 | 74 | 75 | 72 | 72 | 73 | 71 | 70 | 74 | 7 | 77 | 74 | 71 | 71 | 71 | | MIN. | AIR TEMP. (OF) |
| 2870 | 90 | 90 | 90 | 92 | 93 | 93 | 92 | 92 | 90 | 92 | 92 | 97 | 92 | 94 | 94 | 94 | 90 | 94 | 94 | 96 | 96 | 98 | 95 | 97 | 90 | 9 | 97 | 92 | 92 | 93 | 91 | | YAY. | AIR |
| 4.61 | | | | 0.48 | 0.11 | | | | 0.20 | 0.26 | 1.02 | 1.43 | 0.09 | 0.03 | 4 | | | 0.05 | | 0.46 | | | | | | 0.30 | 0110 | | 0.04 | | 0.04 | | (NA.) | WIN WITT |
| TOT. | 21 | 30 | 29 | 28 | 23 | 兴 | 23 | 22 | 23 | 22 | 27 | 20 | 19 | 181 | 17 | 16 | 15 | 11 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 1 | 31 | 10 | 1 | (42.) | (MO.) | AUG. |

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HYDROLOGIC DATA - FLANTATION FIELD LABORATORY FORT LAUDENDALE, FLORIDA

HYDROLOGIC DATA - FLANTATION FIELD LABORATORY FORT LAUDERDALE, FLORIDA

HYDROLOGIC DATA - PLANTATION FIELD LABORATORY FORT LAUDERDALE, FLORIDA

| AIR TE | | | | | | | 7 | | | | | | | _ | | | | | | Щ | ., | | | - | | | | .,, | , | • | 4 | | | - |
|----------------|-------|---------------|----|-----|-----|----|------|------|-----|----|-----|------|------|------|----|-----|----|------|------|------|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|------|----|------|-------|
| AI | MAX. | | 8 | 67 | 72 | 7 | 76 | 70 | 70 | 6 | 79 | 67 | 74 | 77 | 84 | 82 | 88 | 72 | 70 | 00 | 70 | 17 | 7.7 | 16 | 78 | 7. | 62 | 23 | 70 | 2.1 | 18 | 69 | 7 1 | 2 247 |
| KA LN FRILL | (TN.) | | | | | | | | | | | | | | | | | 10.0 | 0.49 | 0.50 | | | | | | | | | | | | | 3 30 | 4.30 |
| DEC | (MO.) | 1963 (FR.) | 7 | N | 3 | 77 | г | 9 | 7 | 8 | 6 | 10 | 11 | 12 | 13 | 177 | 15 | 16 | 17 | 18 | C) | 20 | 21 | 2.5 | 23 | ਹੈ | 25 | 56 | 22 | 28 | 29 | 30 | 31 | TOT |
| TEMARKS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEL, HUM. | ** | | 76 | 080 | 80 | 88 | 28.5 | 0 | 87 | 80 | 180 | 46 | 96 | 96 | 16 | 67 | 9 | 9 | 88 | 11 | 20. | 82 | 76 | 75 | 82 | 86 | 84 | 38 | 80 | 87 | 90 | 71 | | |
| WIND | (MT.) | | 19 | 30 | 12 | 44 | 28 | m | 22 | 17 | 8 | 38 | 20 | 23 | 27 | 9 | 6 | 35 | 47 | 5 | 32 | 30 | 36 | 34 | 80 | 23 | 03 | 10 | 171 | 17 | 32 | 33 | | 726 |
| , | NOV | | 68 | 17 | 107 | 74 | 76 | 75 | 77 | 89 | 70 | 75 | 74 | 72 | 70 | 09 | 25 | 62 | 70 | 73 | 75 | 760 | 1 | 1 | 70 | 17 | 77 | 72 | 72 | 73 | 74 | 00 | | 1,964 |
| AIR TEMP. (°F) | MIN. | | 57 | 09 | 53 | 70 | 72 | 69 | 000 | 53 | 59 | 689 | 68 | 99 | 00 | 45 | 41 | 52 | dol | B | 17 | 11 | 72 | 70 | 62 | 62 | 10) | 200 | 6-9 | 69 | 80 | 40 | | 853 |
| AIR | MAX. | | 78 | 82 | -C | 77 | 80 | 18 | 85 | 82 | 60 | 82 | -80 | 78 | ā | 74 | 64 | 72 | 75 | 77 | 79 | 80 | 1 | 1 | 77 | 80 | 83 | 03 | 82 | 83 | 18 | 79 | | 2,218 |
| POLIN PALL | (IN.) | | | | | | 0.01 | 0.55 | 1 | | | 0.00 | 6.13 | 0.47 | 7 | | | | | | | | | | | | | | | | 80.0 | | | -30 |
| Nov. | (MO.) | 1963 (TR.) | 1 | cu | 3 | 14 | 5 | 9 | 7 | 8 | 6 | 10 | 11 | 12 | 13 | 472 | 15 | 36 | 17 | 18 | 67 | 20 | 21 | 22 | 23 | 170 | 25 | 56 | 23 | 28 | 29 | 30 | 31 | TOT. |

| OEC | THE WAY WE WAY | | | (4 | | REL HUM | |
|-------|----------------|-------|----------|----------|-------|----------|--|
| (MO.) | (TN.) | MAX. | MIN | NA. | (MT.) | 80 | |
| 963 | | | | | | | |
| (YR.) | | | | | | | |
| 7 | | 88 | 4 | 54 | 71 | 74 | |
| N | | 67 | 43 | ry Ty | 2 | 9 | |
| 10 | | 72 | 48 | 0 | 6 | 85 T3 | |
| 77 | | 2 | 2 | 64 | 6 | 9 | |
| r. | | 76 | 45 | 9 | 160 | 79 | |
| 9 | | 70 | 42 | 56 | 14 | 69 | |
| 7 | | 70 | 45 | 58 | 15 | 7.1 | |
| ω: | | 9 | īū | 56 | 8 | 76 | |
| 6 | | 7 | 52 | 99 | 73 | 00 | |
| 10 | | 67 | 38 | 57 | 0 | 76 | |
| 11 | | 74 | 46 | 09 | 12 | 77 | |
| 12 | | 17 | <u>u</u> | 40 | 14 | 90 | |
| 3 | | 84 | 58 | 17 | 8 | 400 | |
| 77. | | 82 | 52 | 70 | 9 | 000 | |
| 15 | | 28 | 68 | 78 | 44 | 68 | |
| 16 | 0.01 | 72 | 00 | 99 | a- | 9 | |
| 17 | 0.49 | 70 | 19 | 66 | _ | 00 | |
| 3.8 | 0.50 | 66 | 197 | 64 | a | 00 | |
| 6 | | 70 | 45 | 200 | 11 | 1 | |
| 20 | | 17 | 45 | 58 | 10 | 1 | |
| 21 | | 7.7 | 54 | m | 75 | 87 | |
| 22 | | 160 | 52 | 6.4 | 20 | 83 | |
| 23 | | 73 | 09 | 63 | 30 | 7.8 | |
| ਹੈ | | 76 | 7.4 | 19 C | 11 | 94 | |
| 25 | | 62 | 36 | 49 | 0 | 00 | |
| 56 | | 62 | 36 | 0 | 7 | <u>α</u> | |
| 23 | | 70 | 42 | 56 | 1.1 | 80 | |
| 83 | | 7.7 | 46 | 59 | 9 | 80 | |
| 29 | | 78 | 41 | 00 | c | 6 | |
| 30 | | 69 | 48 | 58 | 33 | 84 | |
| 31 | - | 71 | 68 | 70 | 28 | 00 | |
| TOT. | 4.30 | 2 247 | 1.5.46 | 1.899 | 478 | | |
| MA | | 707 | CON | 011 | | | |

PART IV

Monthly Hydrologic Data

Plantation Field Laboratory

1963

Division 2 - Solar Radiation, Standard Pan Evaporation, Water Temperature

HID ROLOGIC DATA - PLANTATION FIRED LABORATORY FORT LAUDERDALE, ELORIDA

| DATE | | SOLAR RADIATION | | | PHEE 1 | A ISR SV | AP | CLASS | A PAN |) | |
|-------|---|-----------------|----------------|-------|--------|----------|------|-------|---------|-------|----------|
| MAR | DURATION | TOT. INC. LIGHT | TOT. RADIATION | ALUM | BLACK | | WAI | R TEN | P. (OF. | .) | |
| (MO.) | (HOURS) | | (GUNN-BELLANI) | (IN.) | (Df.) | | ALUM | | | BLACK | |
| 963 | Personal Property of the Personal Property of | | UNITS | | | MAY. | WTY. | W | MAY. | WIN. | WW |
| (YR.) | | | 11.0 | 3 | | | | | | | |
| 1 | 5.3 | 405 | 11.7 | 114 | | | | | | | |
| 2 | 4.8 | 388 | 9.1 | .12 | | | | | | | Г |
| 3 | 6.3 | 448 | 140 | 114 | | | | | | | |
| L | 10.0 | 560 | 15.1 | .22 | | | | | | | |
| 5 | 8.4 | 518 | 119 | IIA | | 1 | 1 | | | | |
| 6 | 9.2 | 542 | .12.9 | 21 | | | | | | | |
| 7 | 7.5 | 492 | 14.2 | .30 | | | | | | | |
| A. | 0.8 | 510 | 5.5 | .16 | | | | | | | |
| Q | 8.3 | 520 | 15.3 | .24 | | | | | | | |
| 10 | 5.0 | 406 | 10.2 | -11 | | | | | | | |
| 11 | 6.7 | 470 | 15.1 | .22 | | | | | | | |
| 12 | 9.5 | 560 | 13.8 | .22 | | | | | | | |
| 13 | 8.6 | 535 | 13.7 | .19 | | | | | | | |
| 14 | 9.0 | 550 | 16.3 | .23 | | | | | | | |
| 15 | 9.3 | 560 | 16.5 | .22 | | | | | | | |
| 16 | 9.3 | 562 | 17.4 | .25 | | | | | | | |
| 17 | 8.7 | 545 | 13.0 | .22 | | | | | | | |
| 18 | 9.1 | 560 | 175 | .26 | | | | | | | |
| 19 | 9.0 | 560 | 18.2 | .24 | | | | | | | |
| 20 | 8.8 | 552 | 17.5 | .27 | | | | | | | |
| 21 | 9.2 | 568 | 158 | .35 | | | | | | | |
| 22 | 8.6 | 550 | 160 | . 33 | | | | | | | |
| 23 | 8.1 | 532 | 11.9 | .28 | | | | | | | |
| र्जा | 7.6 | 518 | 137 | ,20 | | | | | | | |
| 25 | 7.1 | 500 | 140 | .26 | | | | | | | |
| 26 | 2.1 | 300 | 8.9 | .17 | | | | | | | |
| 27 | 7.3 | 510 | 148 | 21 | | | - | _ | | | — |
| 28 | 7.4 | 512 | 15.7 | .23 | | - | | | | | <u> </u> |
| 29 | 5.7 | 454 | 12.5 | ,18 | | | _ | | | | _ |
| 30 | 4.8 | 420 | 10.6 | .27 | | | | | | | L_ |
| 31 | 8.0 | 540 | 16.1 | .28 | | | | | | | |
| TOT. | 229.5 | 15.647 | 477.9 | 690 | | | | | | | |
| MN. | 7.4 | | 13.8 | .22 | L | _L | | L | | | |

| DATE | | SOLAR RADIATION | | | FREE V | ATER EV | AP (| CLASS | A PAN | | |
|-------|----------|-----------------|----------------|-------|---------|---------|----------------|-------|-----------|-------|----------|
| APR. | DURATION | TOT. INC. LIGHT | TOT. RADIATION | ALUM. | BLACK | | WA 15 | R TEM | P. (OF. | .) | |
| (MO.) | (HOURS) | | (GUNN-BELLANI) | (IN.) | (DN.) | | ALUM. | | | BLACK | |
| 1963 | | | UNITS | | | WAX. | MIN. | MN | MAX. | MIN - | MN |
| (YR.) | | | | | | | | | | | |
| 1 | 0.6 | 220 | 5.7 | .16 | | | | | | | l |
| 2 | 0.6 | 290 | 6.9 | ,22 | | | | | | | |
| _3 | 8,5 | 565 | 15.3 | .28 | | | | | | | _ |
| _4 | 7.1 | 520 | 14.8 | .25 | | | | | | | |
| .5 | 9.0 | 585 | 17.1 | 23 | | | | | | | 1 |
| 6 | 8.5 | 568 | 8.4 | .24 | | | | | | | 1 |
| 7 | 6.3 | 483 | 13.7 | 23 | | | | | | | |
| 8 | 3.5 | 370 | 7.4 | 9 | | | | | | | |
| 9 | 7.8 | 540 | 17.0 | .19 | | | | | | | |
| 10 | 9.7 | 615 | 8.5 | 30 | | | | | | | |
| 11 | 9.0 | 590 | 8.5 | .27 | | | | | | | |
| 12 | 9.0 | 591 | 17.5 | .24 | <u></u> | | - | | | | |
| 13 | 8.7 | 578 | 9.9 | .29 | | | | | \square | | L |
| 1/4 | 7.2 | 522 | 13.4 | .28 | | | \blacksquare | | \square | | |
| 15 | 2.1 | 632 | 7. 2. | . 34 | | | | | - | | _ |
| 16 | 7.7 | 670 | 19.0 | .7.6 | | _ | \blacksquare | | - | | _ |
| 17 | 0.1 | 560 | 15.5 | .24 | - | - | - | | - | | ├— |
| 19 | 9.2 | 632 | 193 | .29 | - | | \vdash | | | | |
| 20 | 9.1 | 600 | 8.9 | 24 | | _ | | | - | | |
| 21 | 9.5 | 614 | 9,3 | .28 | | | - | | - | | |
| 22 | 9.3 | 608 | 19.1 | .28 | | | | | | | - |
| 23 | 10.0 | 636 | 17.7 | .28 | | + | | | | | |
| थ | 6.0 | 483 | 16.6 | 28 | - | - | | | \vdash | | Ь. |
| 25 | 9.9 | 633 | 8.3 | 2.5 | | + | - | | | | - |
| 26 | 69 | 518 | 14.9 | | - | - | \vdash | | | | - |
| 27 | 9.2 | 607 | 7-7 | 22 | | _ | | | 1 | | \vdash |
| 28 | 8.9 | 596 | 17.3 | 34 | | _ | | | - | | \vdash |
| 29 | 9.2 | 607 | 15.1 | 37 | | | | | \vdash | | |
| 30 | 5 3 | 458 | 1.4 | .28 | | | | | - | | |
| 31 | | | | | | 1 | | | \vdash | | - |
| TOT. | 237.2 | 16.441 | 478/8 | 7.88 | | + | | | | | _ |
| MN. | 7.9 | | 16.0 | 26 | | | | | | | |

HYDROLOGIC DATA - FIRWTATION WIELD IABORATORY FOR IAUDERDALE, ELORIDA

| MA MA MA MA MA MA MA MA | | | | | | | | | | | | |
|--|-----|---------------|--------|----------|---------------|---------------|--------|-----------------|--------|-----------------|-------------------|----------|
| MALE MULLA | | | | | | | | 72. | L.01 | 1 | 1,9 | 1001 |
| MALE | | | | | | | | | 0.913 | | | .TOT |
| MOME MULA (*NI) | | | | | | | | 20, | 2.21 | 609 | | 12 |
| MOMB MULA (*NI) | | | | | | | | 87 | 1.71 | 082 | | 30 |
| MAME MULA (*NI) | | | | | | | | h2: | 2.05 | 820 | ヤリー | 53 |
| MAKE | | | | | | $\overline{}$ | | hZ. | P.F. | | L.11 | 98 |
| NOME NUM | | | | _ | | | | 7/5 | D'LI | L89 | L.11 | LC |
| | | $\overline{}$ | | | | | | 80 | | | | 59 52 |
| | | | | | $\overline{}$ | | | 87/ | | | ヤゴ | SZ |
| 10 10 10 10 10 10 10 10 | | 1 | | | | | | 67 | 191 | 129 | 2.7 | गट |
| NOALE NULL AND N | | \vdash | | | | | | 977, | 1.071 | 17,9 | フ・レ | SZ |
| NOALE NULL AND N | | \vdash | _ | \vdash | - | _ | | 57, | p. 971 | | 8,0 | 35 |
| NOME NUM | | | | _ | - | | | 27 , | | | | 16 |
| NOME NUM AND AND NUM AND | | \vdash | | \vdash | | | | | | | | 50 |
| NO. | | | | - | | | | | | 39 | | ÐΙ |
| NOALE JULIA (-RI) (-RI | | \vdash | | - | | | | Të. | | 7.00 | | 81 |
| NOALE JULY (-RI) | | | | - | | - | | 97. | | | | LI |
| NOALE MULA (.EL) (.E | | - | | | - | | | 67. | | | | 91 |
| NOALE JULY (-RI) | | - | | _ | | | | SC. | | | | ST |
| NOALE JULY (-NI) (-NI) (1NLALES NONDO) (2NUOH) (-NI) (| | \vdash | | | - | - | | | | | | TL |
| NOALE JULY (-NI) | | | | | \vdash | - | | | | | | 23 |
| NOALE MULA (.EL) (.EL) (.EL) (INALESE-NNUO) (2000) (2000) (.EL) | | \vdash | | | - | | | | | 1.0 | | SI |
| MALE MULA ML MUL | | $\overline{}$ | | | - | | | | | | | TT |
| NOALE JULIA (.EL) (.EL) (.EL) (TALLES-NOUD) (RUCH) (.EL) NOALES NOALES JULIA (.EL) NOALES | | | | | \vdash | | | | | | | OL |
| NO. | | | | | | | | | | | | 0 |
| NOALE MULA (.EL) (.EL) (.EL) (INLIES-NNUO) (2000H) (.E.) | | | | | | | | | | | | 8 |
| NOALE MULA (.EL) (.EL) (.EL) (INALESE-NNUO) (2000H) (.E. NOALESE MULA NU .EL NU NU .EL NU .E | | | | <u> </u> | | | | | | | The second second | |
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| NOALE | | | | | | | | | | | | 9 |
| NOAIS | | | | | | | | | | | | 5 |
| NOALE | | | | | | | | LC. | | | | η |
| NOALS AND ALL AND TAN (.NI) (.NI) (.NI) (NI) (NI) (NI) (NI) (.NI) (NI) (.NI) (| | | | | | | | 66' | 5.05 | 507 | 12,0 | ۶ |
| NOALS AND ALL AND TAN (.NI) (.NI) (.NI) (NI) (NI) (NI) (NI) (.NI) (NI) (.NI) (| | | | | | | | 87, | T.001 | 089 | E.11 | S |
| RA 'RIR 'XVA NR 'NIA XVA ('NI') ('NI') ('NI') (ORNO-BEITVAI) ('NI') ('NI | | | | | | | | 87. | 9,81 | OOL | | T |
| *) (HOLES) (CHAN-BELLANI) (IM.) ALUK, BLACK | | | | | | | | - | | | | (XK) |
| *) (HOLES) (CHAN-BELLANI) (IM.) ALUK, BLACK | AA. | *Nur | "XVA | N/A | *NIA | TAV | | 2.1.5 | SLIM | | | 800 |
| A STATE OF THE PARTY OF THE PAR | | BIYCK | | | *MnTY | | (*sr) | (*81) | | | (SHUOH) | (WO*) |
| | | | 40) ° | R TEAL | | | | | | TOT. INC. LIGHT | | אחחר |
| SOLAR EADIATION FEET TATER EVAP (CLASS A PAR) | | | W. 1 - | 00970 | 1 - +.71 | FAR RATE | M GGET | | | 201VE BUDIVILON | | SLVU |

| _ | | | | | | 21.7 | 7.654 | 291 LI | 6'997 | .TOT |
|----------|-----------|---------|---------|----------|---------|-------|----------------|-------------------|----------|--------|
| | | | | | | 90' | | 519 | 8.01 | TE |
| | | | | | | 18 | 0,81 | 020 | 7'01 | 90 |
| | | | | | | 80 | O.TI | 100) | 2.11 | 53 |
| | | | | | | 12' | L'21 | LL 7 | D.0 | 28 |
| | | | | | | 2)1, | 2,01 | OLT | 5.01 | LC |
| _ | | | | | | 85. | 2.51 | 859 | D.8 | 56 |
| _ | | | | | | E1, | 5.01 | 019 | 66 | SZ |
| _ | | ļ | | | | 81. | 5.21 | 575 | 0.8 | SZ |
| | | | L | | | 01. | 07. L | 997 | 8.2 | 23 |
| | | | | | | 01. | 1 'L | 065 | 1.4 | 66 |
| | | | | | | ES. | T.R | 258 | 2.8 | LG |
| | | | | | | 80. | 5,51 | とのク | 6'9 | 50 |
| | | | | | | 51. | 9.6 | ヤツヤ | 6.5 | DI |
| | | I — | | | | 91' | P.T | 755 | 2.8 | 81 |
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| | | I | | | | 70' | 671 | 155 | 9'4 | 91 |
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| | | 1 | | | | 81. | 5.01 | 284 | 5.0 | 171 |
| | | | | | | 92" | 2,21 | L-79 | 7.8 | 13 |
| | | 1 | | | | 0.E. | 691 | 209 | 7'6 | G L |
| \neg | | | | | | LZ: | L.LI | のもの | 67.01 | TI |
| | | | | | | 976' | 0.91 | 949 | 0.8 | OI |
| | | | | | | 08. | 0.91 | ママツ | p.p | 0 |
| | | | | | | 25. | 6.61 | 589 | p.11 | В |
| \neg | | 1 | | | | 82 | L.91 | 250 | L.01 | L |
| | 6. | | | | | 97 | 0.01 | 069 | 0.6 | 9 |
| | | | | | | 75 | 0.81 | PT0 | 2.11 | 9 |
| ı | | | | | | 50 | E.71 | 029 | 5'01 | 77 |
| \neg | | | | | | 05. | 0.81 | 829 | 6.6 | ٤ |
| | | | | | | 66 | 1.671 | 069 | 0.6 | S |
| _ | | | | | | VU | 1.81 | 697 | 8.01 | T |
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| aure ; | BIVCK | IUI | ATUA. | TIM | | | SIINO | | /minimal | 5001 |
| | | | | | (IN *) | (*NI) | (GONN-BETTVMI) | | (HOURS) | (MO.) |
| | (oF.) | R TEMP. | STAW | | BIVCK | *NOTY | TOT. RADIATION | TOT, INC. LICHT | NOITARUG | AUG. |
| | (NAS 1 | CIVES 1 | D. = (1 | WIEE EAV | PHEE W | | | SOLAR RADIATION | | STAG |
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| | | 1 | | | | LZ. | F.91 | 1 | 1.6 | 701° |
| | | | | | | 85.8 | 0.918 | 28281 | 1,582 | .TOT |
| | | | | | | 20, | 9.91 | 603 | 8.2 | 12 |
| | | | | | | 87 | 1,71 | 082 | F.8 | 30 |
| \dashv | | 1 | | | | h2 | 2.05 | 870 | ヤリリ | 53 |
| \dashv | | + | | | | 62 | P.F. | 887 | L-11 | 96 |
| - | | + | 1 | _ | | 7.5 | ヤ'LI | L80 | L.11 | LE |

HYDROLOGIC DATA - PLANTATION FIELD LABORATORY FORT LAUDERDALE, ELORIDA

| DATE | | SOLAR RADIATION | | | PREE T | ATER EV | AP (| CLASS | A PAN | | |
|-------|----------|-----------------|----------------|-------|--------|--|---------------|-------|----------------|---------------|---|
| Nov. | DURATION | TOT. INC. LIGHT | TOT. RADIATION | ALUM | BLACK | | WATE | R TEM | P. (OF. | .) | |
| (MO.) | (HOURS) | | (GUNN-BELLANI) | (IN.) | (IN.) | | ALUM. | | | BLACK | |
| 1963 | | | UNITS | | | MAX. | MIN. | MN | MAX. | MIN | |
| (YR.) | | | | | | \top | | | | | |
| 1 | 8.5 | 454 | 10.3 | .17 | | | | | | | |
| 2 | 8.8 | 46! | 10.9 | ,14 | | | | | | | |
| 3 | 6.5 | 393 | 8.2 | , 6 | | T | | | | | |
| 4 | 7.7 | 429 | 11.3 | .22 | | | | | | | |
| 5 | | 230 | 3.7 | | | | | | | | - |
| 6 | 1.8 | 242 | 5,3 | .10 | | | | | | | |
| 7 | 62 | 380 | 8,4 | .15 | | | | | | | |
| | 8.7 | 436 | 11.8 | -17 | | - | \vdash | | | | |
| 10 | 3:6 | 304 | 12.1 | 113 | | - | | | | | |
| 11 | 0.2 | 158 | 2-2 | .09 | | + | + | | - | | |
| 12 | 0.60 | 174 | 2.7 | .06 | | - | - | | - | | |
| 13 | 3.4 | 285 | 6.4 | 112 | | _ | 1 | - | | | |
| 1/1 | 9.2 | 449 | 9.9 | ,21 | | | | | - | | |
| 15 | 9.6 | 457 | 8.8 | ,16 | | 1 | | | | | |
| 16 | 7.7 | 409 | 9.7 | 160 | | | | | | | |
| 17 | 5.0 | 334 | 8.2 | il8 | | | | | | | |
| 18 | 7.8 | 4.08 | 8.4 | .24 | | | | | | | |
| 19 | 8.0 | 412 | 8,0 | 23 | | | | | | | |
| 20 | 7.7 | 402 | 9.9 | | | | | | | | |
| 21 | 5.0 | 330 | 7.5 | .23 | | | | | | | |
| 23 | 8.8 | 426 | 10.6 | .24 | | - | \vdash | | | | |
| थ्र | 4.5 | 358 | 7.4 | 7 | | | | | | | |
| 25 | 4.3 | 300 | 7.5 | - ! ! | | | \vdash | | | | |
| 26 | 7.5 | 389 | 7.0 | 13 | | | - | | | | |
| 27 | 7.60 | 390 | 8,0 | 113 | | - | | | | | |
| 28 | 7.9 | 394 | 8.8 | .14 | | | | | | $\overline{}$ | |
| 29 | 2.9 | 257 | 613 | .0B | | | | | | _ | |
| 30 | 4.6 | 306 | 4.7 | .18 | | | | | | | |
| 31 | | | | | | | | | | | |
| TOT. | 180.5 | 0,724 | 2419 | 4.71 | | | | | | | |
| MN. | 6.0 | | 8.1 | .16 | | | | | | | |

| DATE | | SOLAR RADIATION | | | FREE T | ATER EV | AP (| CLASS | A PAN | | |
|-------|----------|-----------------|----------------|-------|--------|---------|----------|-------|---------|-------|-------------|
| DEC. | DURATION | TOT. INC. LIGHT | TOT. RADIATION | ALUM. | BLACK | | WATE | R TEM | P. (OF. | ,) | |
| (MO.) | (HOURS) | | (GUNN-BELLANI) | (IN.) | (N.) | | ALUM. | | | BLACK | |
| 1963 | | | UN ITS | | | MAX. | MIN. | MM | MAX. | MIN. | MN |
| (YR.) | | | | | | | | | | | |
| 1 | 8.5 | 405 | 7.9 | . 13 | l | | | | | | |
| 2 | 8.5 | 403 | 9.1 | .14 | | | | | | | |
| 3 | 7.0 | 367 | 7.2 | .08 | | | | | | | |
| 4 | 3.6 | 274 | 6.4. | JI | | | | | | | |
| 5 | 5.8 | 339 | 6.9 | ,12 | | | | | | | |
| _ 6 | 8.3 | 394 | 8.7 | .13 | | | | | | | |
| _ 7 | 8.2 | 391 | 9.8 | . 14 | | | | | | | |
| - 8 | 2,60 | 272 | 6.7 | .04 | | | \perp | | | | |
| 9 | 6.9 | 358 | 8.7 | 15 | | | | | | | |
| 10 | 814 | 390 | 8.0 | .14 | | | | | | | |
| 11 | 8.4 | 390 | 9.0 | | | | | | | | |
| 12 | 8.5 | 391 | 9.4 | .09 | | | | | - | | |
| 13 | 8.3 | 386 | 10.0 | .11 | | | | | | | |
| 14 | 8.4 | 387 | 9.9 | . 14 | | | | | | | |
| 15 | 8.1 | 380 | 8.7 | | | | | | - | | _ |
| 16 | 0.1 | 143 | 1.9 | .10 | | | \vdash | | - | | <u> </u> |
| 17 | 0.0 | 140 | 0.6 | 100 | | | \vdash | | - | | |
| 18 | 0.0 | 140 | 0.5 | .02 | | | | | ļ.,,,, | | |
| 19 | | 183 | 3/2 | .08 | | | | | - | | |
| 20 | 8.1 | 379 | 8.1 | .09 | - | _ | | | - | | |
| 21 | 6.4 | 341 | 7.6 | .09 | - | | - | | - | | _ |
| 22 | 5.9 | 329 | 8.0 | | | | - | | - | | |
| 23 | 8.8 | 395 | 9.0 | .07 | | - | | | | | |
| 2나 | 1.5 | 200 | 3.5 | .10 | | | | | - | | _ |
| 25 | 3.5 | 26060 | 4.5 | .13 | | _ | - | | | | - |
| 26 | 88 | 397 | 7.1 | !0 | | _ | | | - | | - |
| 27 | 8.5 | 393 | 7.5 | .08 | - | _ | | | - | | |
| 28 | 8.4 | 392 | 9.1 | 10 | | | - | | | | |
| . 29 | 6.3 | 343 | 8.7 | .08 | | - | | | - | | - |
| 30 | 8.3 | 392 | 4.9 | .12 | - | _ | - | | - | | - |
| 31 | 8.3 | 393 | 4.9 | .10 | | - | - | | - | | - |
| TOT. | 194.5 | 10, 353 | 25.5 | 3.13 | - | - | - | | - | | |
| MN. | 93 | | 7.0 | .10 | | | | | | | |

PART IV

Monthly Hydrologic Data

Plantation Field Laboratory

1963

Division 3 - Evapotranspiration of Tifway Bermudagrass at 12-, 18-, 24-, and 36-inch depth - 12/31/62 to 12/31/63

MYDROLOGIC DATA - PLANTATION FIELD LABORATORY FORT LAUDERDALE FLA.

| (MO) 1 2 3 4 AVO. 1 1963 (IN) (IR) 3 4 9 IZ 1 1 17 19 16 20 18 15 2 11 10 09 16 12 10 3 14 13 13 16 14 08 4 15 16 15 17 16 17 5 15 16 16 16 17 16 17 6 15 15 16 16 17 16 17 8 15 16 16 17 16 17 9 15 16 16 17 16 17 9 15 16 16 17 16 17 11 15 16 15 17 16 17 11 15 16 15 17 16 17 11 15 16 15 17 16 17 11 15 16 15 17 16 17 11 15 16 15 17 16 17 11 15 16 15 17 16 16 12 13 13 11 12 17 16 16 13 14 13 11 12 17 16 16 15 16 15 23 13 17 17 16 16 15 16 15 23 13 17 17 17 05 17 2 11 10 12 17 16 18 20 18 19 22 20 18 20 21 19 13 20 18 19 21 20 19 14 20 18 18 22 17 16 15 6 17 14 26 17 16 15 6 17 14 26 17 16 15 6 17 14 27 15 6 12 16 17 14 | EVAPORTAL SPIR | | | | | | | AVG. W | VEDR COM | ENT |
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| 1963 | . LEVEL - 24 | | W.7 | LEVE | L - 3 | 6# | | UPPER | T. SOIL | ** |
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| 1 .7 .9 .10 .70 .18 .15 2 .11 .10 .09 .16 .12 .10 3 .14 .13 .13 .16 .14 .08 4 .15 .16 .15 .7 .16 .17 5 .15 .16 .15 .7 .16 .17 6 .15 .15 .16 .16 .17 .16 .17 8 .15 .16 .16 .7 .16 .17 9 .15 .16 .16 .7 .16 .17 9 .15 .16 .15 .7 .16 .17 11 .15 .16 .15 .17 .16 .17 11 .15 .16 .15 .17 .16 .16 12 .13 .13 .11 .13 .12 .0 13 .4 .13 .1 .13 .12 .0 13 .4 .13 .1 .17 .14 .10 15 .16 .15 .15 .18 .16 .15 16 .15 .23 .13 .17 .17 .05 17 .2 .11 .10 .2 .17 .14 18 .20 .18 .19 .22 .20 .18 20 .21 .19 .13 .20 .18 .19 21 .20 .19 .14 .20 .18 .18 22 .12 .20 .19 .14 .20 .18 .18 23 .15 .14 .15 .17 .14 26 .17 .16 .15 .17 .14 26 .17 .16 .15 .17 .14 27 .15 .16 .12 .16 .15 .17 .14 28 .17 .15 .16 .12 .16 .15 .17 .14 28 .17 .15 .16 .12 .16 .15 .23 | (IM) | Ī | | | (III) | | | (IN) | (IN) | (IN) |
| 2 1 10 09 16 2 10 3 14 13 13 16 14 08 14 15 16 15 17 16 17 17 | 68 | _ | 2 | 15 | 7 | 10 | | | | |
| 3 14 13 13 16 14 08 4 15 16 15 17 16 17 5 15 16 16 16 16 17 6 15 15 16 17 16 17 7 16 15 15 17 16 17 8 15 16 16 16 17 16 17 9 15 16 16 17 16 17 9 15 16 15 17 16 17 10 15 16 15 17 16 16 12 13 13 11 13 17 16 16 12 13 13 11 13 17 10 16 12 13 13 11 13 17 10 16 13 14 13 7 14 13 11 14 14 13 11 7 14 10 15 16 15 23 13 17 17 05 16 15 23 13 17 17 05 17 12 11 10 12 17 14 18 20 18 19 22 20 18 19 20 21 19 13 20 18 19 21 20 19 14 20 18 19 22 12 0 19 14 20 18 18 22 12 2 19 13 20 18 19 23 16 14 17 15 18 24 14 15 17 16 16 17 17 14 26 17 16 16 17 18 18 27 17 16 16 17 18 18 28 17 18 17 17 | .17 .19 | 1 | 8 .10 | .07 | 14 | .12 | | | ĺ | |
| 4 . 15 . 16 . 15 . 17 . 16 . 17 . 16 . 17 . 16 . 15 . 17 . 16 . 17 . 16 . 18 . 17 . 16 . 18 . 17 . 16 . 18 . 18 . 19 . 19 . 19 . 19 . 19 . 19 | .15 14 | ī | 112 | .07 | .08 | .08 | .09 | | | |
| 5 5 16 16 16 17 7 6 15 15 16 17 16 18 7 16 18 7 16 18 7 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 16 | .25 | Ī | 3 14 | .08 | .14 | .12. | .12 | | | |
| 6 | 19 .18 | ÷ | 8 .20 | 231 | .21 | .17 | .19 | | | |
| 7 | . 9 . 18 | _ | 8 20 | 19 | 1.21 | 117 | ,19 | | | |
| 8 | 18 18 | _ | 0, .20 | .18 | .22 | 10 | ,19 | | | |
| 9 .15 .10 .16 .17 .16 .16 .17 .10 .16 .10 .15 .10 .15 .17 .10 .16 .17 .11 .15 .10 .15 .17 .10 .16 .17 .11 .15 .16 .15 .17 .10 .16 .12 .13 .14 .13 .11 .17 .14 .10 .15 .18 .16 .15 .15 .18 .16 .15 .15 .18 .16 .15 .15 .18 .10 .15 .17 .17 .05 .17 .17 .17 .05 .17 .17 .17 .17 .17 .18 .19 .20 .18 .19 .20 .19 .19 .21 .20 .18 .19 .21 .20 .18 .19 .21 .20 .19 .14 .20 .18 .18 .19 .21 .20 .19 .14 .20 .18 .18 .19 .21 .20 .19 .14 .20 .18 .18 .19 .21 .20 .19 .14 .20 .18 .18 .19 .21 .20 .19 .14 .20 .18 .18 .23 .16 .14 .17 .15 .18 .18 .24 .17 .16 .16 .17 .18 .18 .24 .17 .16 .16 .17 .18 .18 .24 .17 .16 .16 .17 .18 .18 .27 .15 .16 .12 .10 .15 .23 .23 .16 .14 .17 .15 .16 .12 .10 .15 .23 .28 .28 .20 .10 .14 .14 .15 .16 .17 .14 .27 .15 .16 .12 .10 .15 .23 .28 .28 .20 .10 .14 .14 .15 .16 .17 .18 .18 .19 .19 .19 .19 .19 .19 .19 .19 .19 .19 | .19 .18 | 1 | 8 .20 | 119 | .21 | .17 | .19 | | | |
| 10 | 73 17 | 4 | 8 .20 | 19 | 20 | 17 | .19 | | | |
| 11 | .23 17 | _ | 9 .20 | .20 | .20 | 20 | .20 | | | |
| 12 | 18 17 | | 8 .20 | ,20 | .20 | 21 | 20 | | | |
| 13 | 08 10 | _ | 2 .09 | 113 | 1 7 | 13 | 111 | | | |
| 14 | 14 11 | _ | 2 .02 | .14 | .18 | .06 | .10 | | | |
| 15 | .14 .15 | ī | 2 .18 | .05 | 07 | .06 | .09 | | | |
| 16 | 11 18 | 1 | 1 28 | .05 | .07 | .05 | , 11 | | | |
| 18 | 16 08 | i | | 12 | ΙΙZ | ,06 | .12 | | | |
| 19 .20 .9 .19 .21 .20 .18 .20 .21 .20 .18 .19 .21 .20 .18 .19 .21 .20 .18 .19 .21 .20 .18 .19 .21 .20 .18 .18 .19 .23 .10 .14 .14 .17 .15 .16 .24 .14 .13 .0 .15 .13 .11 .25 .17 .16 .18 .14 .27 .15 .16 .12 .16 .15 .23 .28 .28 .20 .16 .17 .14 .15 .23 .28 .28 .20 .16 .14 .13 .16 .14 .13 .16 .14 .15 .23 | .07 .16 | | 0 .25 | . 8 | .06 | .06 | 114 | | | |
| 20 .2 .19 13 .20 .18 19 21 .20 19 14 .20 .18 18 22 .12 .12 .14 .19 .15 .15 .10 .15 .11 .15 .15 .17 .14 .15 .17 .14 .15 .17 .14 .15 .17 .15 .17 .15 . | .30 .22 | | 4.26 | .25 | 7.7 | .27 | 25 | | | |
| 21 20 19 14 20 18 8 22 12 5 14 14 19 23 10 14 14 11 15 18 24 4 5 0 5 17 14 25 17 16 6 6 17 14 27 15 16 12 16 15 23 28 3 16 16 17 16 17 | .31 .23 | 4 | | .26 | .23 | 28 | .21 | | | |
| 23 . C 4 4 17 15 . 16 24 4 4 5 6 17 15 16 24 4 17 15 16 24 17 16 17 17 17 18 18 18 18 18 | .18 .18 | - | 3 17 | .18 | .22 | .12 | .17 | | | |
| 23 | 9 .17 | _ | 3 .17 | 1.12 | .23 | .15 | 113 | | - | |
| 24 4 5 0 5 13 .11 25 .17 .16 .18 .6 .17 .14 26 .6 .17 .18 .6 .18 .14 27 .15 .16 .12 .16 .15 .23 28 .2 .16 .14 .13 .5 | 19 21 | - | 9 17 | 19 | .23 | .10 | 116 | | | |
| 26 | .10 13 | - | 0 17 | .18 | .22 | 1 2 | 117 | | | |
| 26 E 17 16 E 18 14 27 15 16 12 15 23 28 28 16 14 13 | 17 2 | <u> </u> | 6.10 | .09 | 13 | 118 | 12 | | | |
| 27 .15 16 .12 .16 .15 .23 28 .13 .16 .16 .14 .13 .15 | 16 17 | 1 | 10 10 | 10 | 17 | 119 | 113 | | | |
| 28 13 10 16 14 13 10 | .25 .26 | 5 | 4 .18 | .24 | 1.22 | .18 | .20 | | | |
| | 14 10 | 1 | 0 .16 | 10 | 16 | .09 | .13 | | - | |
| 29 68 10 69 07 08 10 | .12 .11 | i | 1.20 | .18 | 1.20 | .08 | 116 | | | |
| 30 13 2 12 4 13 10 | .13 .14 | 1 | 2 09 | .05 | .07 | .09 | .08 | | | |
| 31 .21 .21 18 .23 .21 .10 | .12 .14 | ī | 2 .09 | .06 | .08 | .09 | .0B | | | |
| | 533 5.05 | | 88 5.07 | 4.108 | 5.24 | 4.32 | 4.82 | | | |
| MEAN : 15 14 17 15 14 | 17.16 | 1 | 6:16 | .15 | 1.17 | .14 | 116 | | | |

| * | - | 1.1 | - | AA | - | DE | 14 | |
|----|---|-----|---|----|---|----|----|--|
| WW | | | | | | | | |

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| DATE | | | | | | | VAPOR | 11 370 | RATION | * | | | | | | AVG. W | TER CONT | TONY |
|-------|------|------|-------|------|-------|-----|-------|--------|--------|-------|------|-------|-------|------|------|---------|----------|------|
| Auta | W.T. | LEVE | L - / | 2 11 | | W.T | LEVE | L - 22 | 4 | | W.T | LEVEL | -30 | O 18 | | UPPER F | T. SOIL | ## |
| (MO) | 1 | 2 | 3 | h | . OYA | 1 | 2 | 3 | h | AVG. | 1 | 2 | 3 | h | AVG. | WE | W.T. | W.T. |
| 1-105 | | | (IN) | | | | | (III) | | | | | (III) | | | (IN) | (DI) | (IN) |
| (IR) | = | 4 | 9 | 12 | | | 6 | 8 | 11 | | 2 | 5 | 7 | 10 | | | | |
| 1 1 | 1160 | 14 | .15 | 118 | .16 | 112 | 111 | 113 | lio | .12 | ,08 | 129 | 114 | (2) | .10 | | | |
| 2 | 05 | -14 | ,160 | .18 | عال | 112 | .12 | 113 | 111 | .12 | .09 | IDB | .14 | ,09 | 110 | | | |
| 3 | .145 | .20 | 118 | .21 | .20 | .12 | 114 | 19 | .13 | .14 | .09 | .16 | , 4 | 110 | .10 | | | |
| 14 | , 14 | .12 | 116 | 16 | .15 | 112 | 15 | 117 | 113 | .14 | .10 | .15 | . 14 | 112 | 113 | | | |
| 5 | .14 | 112 | 160 | .17 | .15 | 113 | 115 | 17 | 112 | . 14. | -17 | 116 | 114 | .12 | 115 | | | |
| 6 | .12 | 113 | 115 | | 113 | 111 | 1135 | 117 | .13 | .14 | IR | .15 | 110 | .17 | 110 | | | |
| 7 | 4 | .12 | 1 8 | .10 | . 14 | 112 | .14 | 117 | 113 | .14 | IB | 11/0 | 17 | 118 | . 17 | | | |
| 8 | 14 | 11=2 | B | 120 | .10 | 1/2 | 113 | . 3 | .08 | .12 | 118 | 115 | 11/4 | 118 | .17 | | | |
| 9 | 15 | 11/ | 118 | | 118 | 113 | 14 | 114 | 108 | 12 | 113 | 119 | 11 | 113 | 15 | | | |
| 10 | 1/2 | 16 | 116 | 119 | 118 | 42 | 1/2 | 12 | 110 | 113 | 15 | | 17 | 12 | 14. | | | |
| 12 | 10 | 10 | .09 | 110 | 110 | 1 7 | 15 | 1/0 | .10 | .14. | 160 | 16 | 116 | 1160 | 119 | | | |
| 13 | .1.1 | .11 | .08 | 112 | . 1 | 111 | 115 | 11/0 | 110 | .14 | 115 | 16 | 115 | .160 | ص [| | | |
| 1 | 211 | 1170 | .09 | . 11 | .10 | 111 | 15 | 12 | 110 | . 12 | IF | 110 | -16 | 1160 | 16 | | | |
| 15 | 10 | 1 I | 0.7 | .12 | 111 | .07 | 108 | 112 | 10 | .09 | .15 | 10 | 声 | 110 | 16 | | | |
| 16 | Δ | . 12 | 114 | 1160 | 14 | 110 | . 7 | 112 | .07 | 110 | 108 | 116 | 116 | 116 | 114 | | | |
| 17 | JE. | 14 | .14 | 110 | ,15 | | | 114 | 108 | .11 | .07 | 16 | 116 | ,11 | 12 | | | |
| 1.8 | .10 | 110 | 110 | 111 | .10 | 117 | .14 | 111 | 111 | 112 | 117 | .16 | .18 | - | 14 | | | |
| 19 | 110 | 110 | 110 | 110 | 110 | 113 | 114 | 111 | 1 | .12 | .12 | .17 | 119 | 110 | 1.1 | | | |
| 20 | 1.5 | .09 | 110 | 6 | 10 | , | 1/1 | 1/1 | .11 | -11 | 118 | 116 | 113 | 117 | 117 | | | |
| 21 | 110 | .01 | , 29 | 110 | 110 | 110 | 110 | 12 | 11% | 111 | 10 | 117 | .19 | 117 | 118 | | | |
| 22 | 10 | .09 | 110 | 110 | 110 | 11 | 111 | 1// | 117 | 111 | 18 | 119 | 48 | 115 | 118 | | | |
| 24 | 1.0 | 09 | 110 | 110 | 110 | | 110 | 11 | 117 | | | | 119 | IB | 118 | | | |
| 25 | 110 | 00 | 110 | 110 | 110 | 1 1 | 10 | / | 111 | 1 | 118 | 10 | 118 | 118 | 118 | | _ | |
| 26 | -11 | 110 | 112 | 110 | .10 | 111 | 110 | 1 1 | 111 | 110 | 119 | 11/ | 118 | 18 | 118 | | | |
| 27 | 12 | 110 | 12 | 13 | 110 | .06 | .10 | 115 | 108 | 11/2 | 118 | 9 | IB | .18 | 118 | | | |
| 28 | 12 | 1 | 10 | 12 | 12 | 114 | 113 | 113 | 111 | 113 | 119 | 11/ | 112 | 160 | 11/ | | | |
| 29 | 14 | | 113 | 112 | 113 | 115 | 112 | 13 | 1 | 114 | 119 | 10 | 14 | 16 | 16 | | | |
| 30 | .10 | 1/4 | 112 | 116 | .14 | 108 | , 11 | 14 | 112 | 113 | 112 | 1160 | .14 | 16 | 110 | | | |
| 31 | 15 | 14 | . 17 | 17 | 116 | 108 | 111 | 11.4 | 11 | 111 | 21 | .16 | 15 | , 15 | 118 | | | |
| TOT. | | 3.76 | 4.07 | 1.21 | 4.58 | | 3.38 | | 3.31 | 3.74 | 4.74 | | | 45 | 4 79 | | | |
| MEAN | .13 | 112 | 113 | .14 | 113 | 12 | 113 | | 111 | 112 | 115 | 4.03 | | 1.00 | 4 /5 | | | |
| | | | V 2 | | | | | 14 | 111 | 1112 | 11.2 | 1160 | .16 | | 110 | | | |

^{*} TIFWAY BERMUDAGRASS

MYDROLOGIC DATA -- PLANTATION FIELD LABORATORY FORT LAUDERDALE FLA.

| DATE | | | | | | | EVA POT | RHEIT | RATION | # | | | | | | AVU. W | Linn Com | 201 |
|------|-------|-------|-------|--------|------|-------|---------|-------|--------|------|------|------|-------|-----|--|--------|----------|------|
| MAR | W.T | LEVE | IL - | 2 " | | W.I | . LEVE | L - 2 | 4" | | W.I | LEVE | 1 - 3 | 6 | | | T. SOIL | ** |
| (MO) | 1 | 2 | 3 | 14 | AVO. | 1 | 2 | 3 | l h | AVG. | 1 | 2 | 3 | h | AVG. | TWE | W.E. | W.T. |
| 1963 | | | (IN) | | | | | (IN) | | | | | (III) | | | (IN) | (IN) | (IN) |
| (MR) | 3 | 4 | 9 | 12 | | 1 | 6 | 8 | 11 | | 2 | 5 | 7 | 10 | | | | |
| 1 | .07 | .08 | .07 | .08 | .08 | -11 | .10 | .08 | .05 | 09 | .09 | .06 | .05 | 08 | .07 | | | |
| 2 | .08 | ,08 | .06 | .07 | 07 | .05 | .07 | 08 | 07 | .07 | .04 | .03 | .06 | .05 | .05 | | | |
| 3 | .14 | .14 | 15 | . 14 | .14 | .10 | | .08 | .06 | .09 | .04 | .17 | 03 | .03 | .07 | | | |
| -4 | ,20 | .22 | .20 | .20 | .21 | .21 | .18 | .19 | .20 | 20 | .08 | .17 | ,20 | .24 | .17 | | | |
| 5 | .05 | .05 | .04 | .05 | .05 | .04 | .03 | .04 | .04 | .04 | .09 | .05 | .06 | .01 | .05 | | | |
| 6 | .06 | .05 | .05 | .05 | .05 | .04 | .04 | .05 | .05 | ,05 | .08 | .06 | .06 | .01 | 05 | | | |
| 7 8 | .21 | .23 | ,22 | .21 | .22 | 19 | .21 | .18 | 16 | .19 | .16 | .05 | .06 | .14 | .10 | | | |
| 9 | .09 | -06 | 06 | 0.7 | .07 | . 0 4 | ,02 | .03 | .05 | .04 | 04 | .09 | .04 | .04 | .05 | | - | |
| 10 | 07 | 4.1 | 18 | . 7 | .18 | .14 | 18 | 110 | -11 | 15 | 09 | .08 | 04 | .09 | .08 | | | |
| 11 | .16 | 07 | .04 | .02 | .05 | .04 | 10 | .02 | 09 | .06 | .06 | .07 | .06 | .08 | .07 | | | |
| 12 | 10 | . 4 | 12 | 13 | .13 | .09 | .03 | 09 | .10 | 09 | 107 | .07 | .16 | .20 | | | | |
| 13 | 14 | .13 | 12 | . 2 | .13 | . 3 | .14 | 17 | .10 | 12 | .10 | .14 | .08 | .10 | | | | |
| 111 | 16 | .16 | .15 | 15 | .16 | 12 | 14 | .12 | 12 | 13 | .14 | 13 | 10 | 112 | .12 | | - | |
| 15 | 14 | 13 | Z | 13, | 13 | 4 | 12 | .08 | 17 | 12 | .09 | 1 2 | 14 | 17 | 112 | | | |
| 16 | 17 | 18 | 17 | .18 | 18 | 14 | 16 | 17 | 17. | 15 | 14 | 118 | .05 | .06 | -15 | | | |
| 17 | 17 | .15 | .12 | 14 | 15 | .14 | .15 | 09 | . 1 1 | 12 | .06 | .02 | .20 | .16 | . 1 | | | |
| 1.8 | .18 | 18 | 19 | 16 | . 8 | -16 | . 18 | . 8 | 16 | .17 | .22 | .30 | .08 | 110 | .19 | | | |
| 1.9 | .13 | .12 | . 1 1 | .10 | .13 | 13 | .09 | 08 | 111 | .10 | .08 | 08 | .13 | .20 | .12 | | | |
| 20 | 16 | 17 | .15 | 14 | .16 | 14 | .18 | .17 | .11 | . 15 | . 4 | .12 | 110 | .08 | | | | |
| 21 | .21 | .21 | ,20 | .21 | .21 | 18 | .19 | .15 | 15 | 17 | 15 | ,22 | .16 | .18 | 18 | | | |
| | 2.3 | .24 | .7.3 | .23 | 23 | .19 | . & | .17 | .15 | .1-7 | .13 | 112 | .08 | .14 | .09 | | | |
| 23 | .18 | .17 | -17 | .12 | 16 | .09 | .10 | - | .10 | 10 | .07 | .15 | .12 | .05 | 10 | | | |
| 25 | ط ا . | .14 | .12 | 19 | .15 | .20 | .17 | ,12 | | ,15 | .16 | .02 | .14 | .10 | -1.1. | | | |
| 26 | .15 | 7 | .15 | .15 | 16 | .08 | 16 | -16 | .12 | .13 | .08 | 28 | .06 | 122 | 110 | | | |
| 27 | 12 | 10 | . 0 | 02 | .09 | .05 | 12 | .09 | .03 | .07 | .07 | .13 | .09 | .06 | .09 | | | |
| 28 | .13 | 1 4 | . 0 | 10 | ,13 | 0.7 | 16 | ,09 | .13 | .13 | -11 | .12 | .04 | .06 | .08 | | | |
| 29 | . 10 | .13 | 09 | .15 | .14 | 29 | .06 | -11 | 113 | 115 | .12 | .13 | .20 | 18 | صا ا | | | |
| 30 | .14 | 14 | 13 | 10 | .10 | 21 | .05 | 16 | .07 | .07 | | .12 | .04 | .01 | .07 | | | |
| 31 | 15 | 14 | 12 | 14 | 14 | 14 | .15 | 16 | | | | | 16 | .25 | 13 | | | |
| | 4.42 | 4 3 4 | 4.04 | 416 | 4.24 | 3.9% | | 3.60 | .10 | 3.70 | 3.26 | 112 | .14 | ,10 | 14 | | | |
| MEAN | 14 | .14 | .13 | 13 | .14 | .13 | .13 | 12 | 3.3 | 3.10 | 5.46 | 3.60 | 3.00 | 336 | 330 | | | |
| * | 7 | FWAY | | IUDAG. | | | -10 | 16. | | 4 | • | .12 | . 0 | | | | | |

| . TIFWAY BERMUDAGEN | 55 |
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| DATE | | | | | | | EVAPOR | FR (\$) 71 | RATION | * | | | | | | AVG. W | TER CONT | ENT |
|------|-------|-------|-------|------|-------|-------|--------|------------|--------|-------|-----|-------|------|-------|-------|---------|----------|-----------|
| ALT. | W.T | LEVE | L - | ZH | | W.T | . LEVE | L - 2 | 4" | | W.T | LEVE | - 3 | 6# | | UPPER I | T. SOIL | 装装 |
| (MO) | 1 | 2 | 3 | h | . OYA | 1 | 2 | 3 | ь | AVG. | 1 | 2 | 3 | h | AVG. | TW | W.T. | W.T. |
| 1963 | | | (IN) | | | | | (IN) | | | | | (IN) | | | (IN) | (IN) | (IN) |
| (1R) | 3 | 4 | 9 | 12 | | 1 | 6 | 8 | | | 2 | 5 | 7 | 10 | | | | |
| 1 | .06 | .06 | .03 | .02 | .04 | .08 | .15 | .03 | .12 | .10 | .06 | .08 | 0.4 | .08 | 27 | | | |
| 2 | 19 | 19 | .20 | .21 | .20 | .17 | 1.8 | .19 | 11 | 160 | 15 | .07 | .15 | · 1 1 | .12 | | | |
| 3 | .15 | .16 | 15 | 160 | .16 | w] I | 08 | 113 | 112 | 1.7 | .17 | .24 | .12 | .16 | ,17 | | | |
| 14 | .13 | 11.1 | 411 | .12 | 12 | , 1 1 | 15 | .10 | .09 | , î I | .05 | .02 | UB | -1 | .07 | | | |
| 5 | . 4 | .15 | .14 | .14 | 14 | 14 | 16 | .15 | .13 | .15 | 15 | ,22 | .12 | .08 | .14 | | | |
| 6 | .14 | . 4 | | .15 | .14 | .13 | 07 | 9 | .09 | .10 | .06 | .06 | .12 | .10 | .09 | | | |
| 7 8 | .07 | .03 | .04 | 04 | .05 | .05 | .06 | .07 | .09 | .07 | .12 | .20 | .04 | .10 | .12 | | | |
| 9 | 16 | .16 | 15 | 1 10 | .16 | .15 | .18 | .18 | .19 | 18 | .24 | .32 | | .27 | .2B | | | |
| 10 | . 7 | 1 -7 | .15 | 19 | .16 | 28 | .28 | .18 | 13 | .2.1 | 30 | .09 | .02 | .12 | .13 | | | |
| 11 | 17 | 1.5 | 15 | 17 | 117 | .20 | 12 | .15 | 1-7 | .12 | 01 | .09 | .10 | .10 | .08 | | | |
| 12 | 16 | . 4 | .14 | .15 | 15 | .14 | 6 | 13 | 13 | 4 | .15 | - | 12 | .06 | . 1 1 | | | |
| 13 | 19 | .1 9. | 117 | .17 | .18 | 1.4 | .12 | .13 | .11 | .13 | .07 | .1.1. | .02 | .12 | .08 | | | |
| 114 | .1-7 | .18 | .14 | .20 | .17 | .14 | .22 | .17 | .10 | .16 | .08 | .18 | .24 | .08 | .15 | | | |
| 15 | .23 | ,23 | .23 | .22 | .23 | .20 | .16 | .13 | .20 | 19 | .Zo | . 18 | .0 | .20 | . 7 | | | |
| 16 | .20 | .20 | .18 | 153 | . 19 | .14 | .20 | .17 | .15 | .17 | 10 | .03 | 18 | .14 | .1.1 | | | |
| 17 | .16 | .1.7 | 4 | .17 | .16 | .14 | 12 | .13 | .13 | .12 | .12 | 22 | .06 | .07 | .12 | | | |
| 18 | 17 | .16 | . / 5 | 17 | . 6 | .14 | .20 | 1 1/2 | 14 | 16 | .12 | .08 | .18 | புத | .14 | | | |
| 19 | .10 | .16 | .i3 | 115 | ,15 | 14 | .12 | .13 | 1 1 | .13 | .10 | 18 | - (| .06 | .12 | - | | |
| 21 | 18 | 12 | .15 | 18 | .18 | 14 | | 1 | .20 | 15 | .06 | .10 | 7.1 | 12 | 12 | | | |
| 22 | 19 | .12 | .14 | 1/0 | 13 | 19 | 16 | .14 | 12 | 1/- | .26 | . 2.8 | 06 | .20 | 20 | | - | |
| 23 | 160 | .160 | 117 | .17 | 17 | .10 | .15 | 16 | 15 | .14 | .05 | . 07 | 23 | .14 | 12 | | | |
| 24 | .18 | .19 | .15 | .15 | .18 | .20 | .20 | .16 | .15 | .18 | .20 | . 7.4 | .08 | .11 | .16 | | | |
| 25 | .17 | .17 | 114 | 17 | .17 | .14 | .14 | .12 | .14 | 4 | 10 | 15 | .18 | 12 | -1/a | | | |
| 26 | 15 | 4 | .1.1 | .17 | 14 | 10 | .14 | . 4 | .11 | .12 | .12 | .10 | .08 | .12 | .11 | | | |
| 27 | .19 | .21 | .19 | .18 | .19 | 19 | .22 | .17 | 1.1.1 | .17 | .14 | .20 | .12 | .08 | 116 | | | |
| 28 | .22 | .19 | . 0 | 22 | 21 | .18 | .22 | .17 | 21 | .20 | .16 | ,28 | .22 | .20 | .22 | | | |
| 29 | 20 | .22 | .21 | .19 | .21 | .17 | . 8 | .18 | .16 | .17 | 16 | .13 | .08 | 116 | . 3 | | | |
| 30 | . 4 | .12 | | .14 | .13 | -07 | .08 | .06 | .08 | .07 | .07 | .12 | .15 | .01 | .09 | | | |
| 31 | 4 - 5 | | 4 4 - | 1.5= | 4 | | | | | | | | | | | | | |
| TOT. | | 4.85 | | | | 4.28 | | 4.27 | | 4.32 | | | 3.88 | | | | | |
| MEAN | 1.16 | . [6 | .15 | 1.6 | .16 | .14 | .16 | .14 | 1.13 | .14 | .13 | .15 | 113 | .13 | .14 | | | |

^{# -} TIFWAY BERMUDAGEASS

HYDROLOGIC DATA - PLANTATION FIELD LABORATORY FORT LAUDERDALE FLA.

| DATE | | | | | | | 7/A 30a | त्र हो हा | RATION | * | | 1 1 1 | | | | AVG. W | VIER COLL | di r |
|------|--------|------------|-------|------|------|------|---------|-----------|----------------|------|------|-------|------|-----------------|------|---------|-----------|------|
| Nov. | | LEVE | L - ! | 2 " | | W.I | LEVE | 6-2 | 4 w | | W.I | LEVE | - 30 | ó ¹⁸ | | UPPER I | T. SOIL | ** |
| (MO) | 1 | 2 | 3 | ь | AVG. | 1 | 2 | 3 | l ₁ | AVO. | 1 | 2 | 3 | h | AVG. | WI | W.T. | W.T. |
| 1963 | | | (IN) | | | | | (IN) | | | | | (11) | | | (IN) | (IN) | (IN) |
| (IR) | 3 | 4 | 9 | 12 | | 1 | 6 | 8 | 11 | | 2 | 5 | 7 | 10 | | | | |
| 1 | 109 | .09 | 28 | .09 | ,09 | .05 | .06 | .08 | .03 | .06 | .05 | .04 | .05 | .05 | .05 | | | |
| 2 | .09 | .08 | .08 | .03 | OB | .09 | .06 | .08 | .03 | ,06 | ,06 | ,04 | .04 | .05 | .05 | | | |
| 3 | 112 | .12 | .09 | 110 | | 07 | ,09 | .08 | .04 | .07 | .05 | .00 | .05 | .05 | .05 | | | |
| 4 | 108 | ,07 | 110 | -11 | 1.09 | 110 | .08 | .07 | .03 | ,07 | .05 | 104 | .04 | .04 | ,04 | | | |
| 5 | ,00 | .04 | .05 | .05 | 05 | .05 | 109 | .07 | .04 | :06 | 112 | .04 | ,05 | 105 | ,06 | | | |
| | .00 | 105 | 105 | .010 | -06 | 05 | 10 | | .08 | 108 | | 113 | 111 | 115 | 112 | | | |
| 7 8 | ,06 | .04 | .05 | 05 | ,05 | | 110 | .12 | .08 | .09 | 112 | 112 | .12 | .160 | 113 | | | |
| 9 | ,09 | 10 | 29 | 109 | 109 | ,05 | .09 | 111 | 105 | .08 | .12 | 113 | 112 | 15 | 112 | | - | |
| 10 | .09 | 09 | 108 | 05 | 108 | 100 | .05 | .09 | | .02 | 112 | 113 | 112 | 112 | 12 | | | |
| 11 | ,09 | 110 | 109 | 109 | .09 | .10 | .11 | 111 | .09 | 110 | 114 | 11 | 113 | 112 | 112 | | | |
| 12 | .09 | .09 | 108 | 108 | .08 | 109 | . 11 | .11 | .09 | 110 | 13 | .11 | ,14 | 113 | 113 | | | |
| 13 | :29 | 110 | .09 | .09 | .09 | 110 | 112 | -11 | .09 | .10 | 114 | .11 | 113 | 113 | .13 | | | |
| 14 | .17 | .15 | 113 | :15 | ,15 | 110 | .11 | ,06 | | 109 | .13 | .11 | .13 | .12 | .12 | | | |
| 15 | 113 | .13 | . 14 | .10 | .12 | -07 | .07 | .08 | | 106 | 114 | ,11 | 113 | 103 | 110 | | | |
| 16 | ,00 | .08 | 07 | 013 | .07 | .05 | .05 | ,05 | | | .53 | J.I | .04 | .07 | .05 | | | |
| 17 | 11 6 1 | 03 | 10B | 107 | ,OB | .05 | ,010 | .04 | ,04 | 1.05 | .03 | 110 | 104 | .03 | 105 | | | |
| 18 | 07 | .07 | 108 | ,08 | 08 | 05 | 107 | | ,03 | .05 | .03 | .03 | .04 | .03 | .03 | | | |
| 20 | 07 | 103 | .0B | .03 | .08 | .05 | .07 | 06 | | .05 | .03 | 104 | 104 | ,03 | | | | |
| 21 | .08 | .07 .08 | .08 | ,07 | .08 | .03 | .06 | .06 | | 104 | 03 | 103 | .04 | .03 | ,03 | | - | |
| 22 | 0 | .07 | .01 | 08 | | 03 | .04 | | | 103 | . 03 | 104 | .04 | ,03 | 103 | | | |
| 23 | 08 | 108 | .05 | ,07 | ,07 | 04 | | ,04 | 101 | .03 | ,03 | 104 | 103 | .02 | ,03 | | | |
| 24 | 25 | 107 | -05 | 07 | .06 | .04 | .04 | ,03 | | .03 | .02 | .05 | .04 | ,03 | ,04 | | | |
| 25 | 05 | .07 | .07 | .06 | 127 | .010 | 00 | .07 | .04 | .06 | 103 | .04 | .03 | 02 | .03 | | | |
| 26 | .07 | 28 | D. B. | .09 | 00 | .05 | ,060 | 1010 | | , 05 | ,03 | ,05 | .04 | 103 | .04 | | | |
| 27 | .09 | .08 | .09 | 108 | 108 | ,05 | .010 | ,05 | | | 04 | ,01 | 103 | ,05 | .04 | | | _ |
| 28 | 100 | .09 | 108 | .09 | ,09 | .04 | | .06 | | .06 | 103 | 105 | 04 | 106 | 04 | | | |
| 29 | .09 | 110 | ,09 | 109 | , 09 | .03 | | .06 | | | ,04 | | 108 | ,05 | 105 | | | |
| 30 | .09 | .09 | ,0B | 109 | 00 | .04 | | .010 | | ,05 | ,03 | .04 | .08 | .05 | .05 | | | |
| 31. | | | | | | | | | | | | | | | | | | |
| TOT. | 262 | 2.54 | 2.43 | 2.50 | 2.52 | 1.81 | 2.20 | 2.12 | 1.37 | 1.88 | 2.06 | 2.1 | 2.12 | 199 | 2.07 | | | |
| MEAN | 1.09 | | | | | | .07 | ,07 | .05 | .06 | .07 | .07 | .07 | 07 | .07 | | | |
| ** | | FWΔ | YB | ERN | 1UDA | GR | 455 | | | | | | | | | | | |

| DATE | | | | | | - | EVAPOE | 71 S 71 | RATION | * | | | | | | AVG. W | TER CONT | ENT |
|---------|------|--------|-------|-------|------|------|--------|---------|--------|------|-------|--------|---------|------|------|---------|----------|------|
| DEC. | W.T | LEVE | L - / | 2 " | | W.T | . LEVE | 6-2 | 4" | | W.T | . LEVE | - 30 | o# | | UPPER I | T. SOIL | ** |
| (MO) | 1 | 2 | 3 | ь | AVG. | 1 | 2 | 3 | h | AVG. | 1 | 2 | 3 | h | AVG. | WWIT | W.T. | W.T. |
| 1963 | | | (IN) | | | | | (IN) | | | | | (IN) | | | (IN) | (DI) | (IN) |
| (YR) | 3 | 4 | 9 | 12 | | | 6 | 8 | | | 2 | 5 | 7 | 10 | | | | |
| 1 | .1.1 | 110 | 10 | .10 | .10 | .09 | .00 | .00 | .02 | .06 | 04 | .06 | 04 | 105 | .05 | | | |
| 2 | .11 | 110 | 110 | .10 | .10 | 03 | .06 | 05 | .03 | 106 | .03 | DE. | .03 | .05 | .04 | | | |
| 3 | OF | OF | .04 | 05 | 05 | .04 | .04 | .04 | :02 | .04 | .04 | .06 | , 03 | .03 | .04 | | | |
| 4 | , 04 | .04 | .04 | Dia | .04 | .04 | 103 | .05 | 72 | .04 | .03 | OF | .03 | 23 | .04 | | | |
| 5 | 08 | .08 | 07 | -05 | +07 | 09 | ,05 | 105 | .02 | ,05 | .04 | .06 | 103 | .02 | .04 | | | |
| 6 | .12 | 12 | 11/2 | 113 | .12 | ,09 | ,08 | 109 | 000 | 108 | .0B | 105 | · DB | ,06 | .07 | | | |
| 7 | .13 | 112 | 113 | 113 | 113 | .09 | -OF | .09 | 127 | 108 | 07 | .06 | .07 | .07 | 107 | | | |
| 8 | .00 | 106 | .06 | .05 | .06 | 03 | 00 | ,08 | 07 | 106 | 013 | .05 | 108 | .06 | | | | |
| 9 | 106 | .06 | .07 | .04 | OLO | .07 | . Ola | 106 | .07 | .06 | .07 | .05 | .07 | 100 | ,06 | | | |
| 10 | 110 | .08 | .07 | 110 | .09 | ,04 | ,06 | .06 | .02 | .04 | .07 | ,04 | 107 | 106 | 106 | | | |
| 11 | 105 | .05 | 105 | 000 | .05 | ,06 | .04 | 1060 | .02 | .24 | .04 | ,05 | 105 | ,06 | .05 | | | |
| 12 | .07 | .060 | 105 | 010 | .06 | 04 | .05 | ,05 | .02 | .04 | 103 | .04 | 104 | 106 | .04 | | | |
| 13 | .02 | .04 | 105 | 105 | 04 | 060 | :0.4 | :06 | | .04 | .04 | .04 | ,05 | .06 | ,05 | | | |
| 1/1 | .09 | · 6.60 | 05 | .04 | .06 | 1010 | .05 | 105 | .02 | . 04 | .03 | .04 | ,04 | ,04 | ,04 | | | |
| 15 | 00 | .00 | .04 | 105 | .000 | .05 | 105 | 106 | .02 | .04 | ,03 | .04 | ,05 | .04 | .04 | | | |
| 16 | ·Ola | 00 | .05 | .04 | 105 | 07 | .06 | .06 | 20. | 105 | ,05 | .04 | - 04 | .07 | .05 | | | |
| 17 | .05 | .04 | 01 | 0.5 | .04 | 08 | 105 | .07 | .06 | ,06 | 10 | 110 | 104 | 108 | ,09 | | | |
| 19 | 1760 | 04 | . 033 | . 0.4 | .04 | .07 | 04 | . 07 | .07 | .06 | - 1 / | / | 108 | .08 | 110 | | | |
| 20 | 010 | .05 | .04 | 05 | ,05 | 07 | 05 | .07 | ,06 | .06 | 110 | 110 | ,09 | .08 | .09 | | | |
| 21 | 1114 | .09 | 100 | 05 | .06 | 27 | 05 | ,03 | .06 | 104 | | 110 | , DB | ,07 | 29 | | | |
| 22 | .07 | -1260 | -1 C | 27 | 108 | .03 | . 05 | 02 | :01 | ,03 | | 10 | 108 | .08 | 10 | | | |
| 23 | .07 | ,06 | 03 | .00 | .05 | .04 | 105 | 05 | .01 | .04 | 1 / | 110 | .09 | .07 | .09 | | | |
| 21 | 107 | .09 | .04 | .04 | 00 | .04 | ,060 | .05 | 03 | . 04 | .03 | .04 | 108 | ,07 | 106 | | | |
| 25 | .11 | :08 | .09 | 00 | .08 | 25 | .05 | .05 | 02 | . 04 | 102 | D-F | .04 | | 03 | | | |
| 26 | | 09 | .00 | .07 | .09 | .04 | .10 | .07 | 03 | ,04 | .03 | 103 | .04 | .04 | .04 | | | |
| 27 | 25 | 060 | .04 | 01- | .05 | 06 | 10 | 106 | .04 | 104 | | 103 | 7 0 - 7 | | ,03 | | | |
| 28 | .04 | 07 | . 04. | 0.0 | 105 | 1010 | 100 | 06 | .03 | .05 | ,02 | .02 | 103 | .04 | 103 | | | |
| 29 | ,04 | ,05 | 04 | 0.0 | , 05 | 07 | 107 | ,03 | 103 | 100 | .02 | .03 | .03 | 104 | .03 | | | |
| 30 | -07 | 07 | Die | . Dla | ,06 | ,06 | 100 | .06 | 103 | .05 | 06 | .06 | 106 | .06 | 106 | | | |
| 31 | 07 | .07 | .67 | . 67 | 107 | ,07 | ,07 | .06 | ,04 | 106 | ,06 | .06 | 10 | | | | | |
| TOT. | 2.15 | 7.12 | 1.98 | 1.96 | 2.06 | | 1.81 | 1.77 | 1,06 | 4 4 | 1.79 | 1.80 | 100 | .06 | 170 | | | |
| MEAN | .07 | .07 | .06 | .06 | ,07 | .06 | .06 | ,06 | ,03 | 1.00 | | | 11// | 1,74 | 1.78 | | | |
| 1111111 | | CALIA | .00 | -06 | | ,00 | 100 | 100 | 1,03 | 1.00 | .06 | .06 | 1.00 | .06 | .06 | | | |

PART V

Monthly Hydrologic Data

Everglades Experiment Station

1963

Division 1 - Rainfall, Air Temperature, Wind

HYDROLOGIC DATA - EVERGIADES EXPERIMENT STATION BELLE GLADE, FLORIDA

| MN. | TOT. | 31 | 30 | 29 | 88 | 27 | 8 | 25 | 2 | 23 | ß | 21 | 20 | 19 | 18 | 17 | 16 | 15 | F | 13 | 12 | 11 | 10 | ٥ | 60 | 7 | 6 | J. | 4 | ы | 12 | - | (YR.) | 1563 | No. | MAR |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|-----|--------|--------|--------|------|-----|--------|-----|-------|------|--------|------|--------|--------|--------|--------|-------|--------|-------|--|
| | 042 | | 008 | | | | | | | | | | | | | | | | | | | | 0.10 | | 0.10 | 0.12 | | | | | 0.02 | | | | (_N_) | |
| 812 | 2,517 | 20 | 79 | 83 | 84 | 82 | 76 | 75 | 79 | 67 | 71 | 87 | 87 | 86 | 88 | 88 | 84 | 87 | 88 | 87 | 28 | 82 | 80 | 75 | 65 | 85 | 253 | 83 | 238 | 98 | 20/ | 74 | | | WAX. | 2. |
| 57,0 | 1.766 | 60 | 55 | 500 | 59 | 56 | 52 | 50 | 90 | 40 | 47 | 57 | 62 | 61 | 61 | 61 | 59 | 68 | 62 | 64 | 61 | 60 | 58 | 56 | 51 | 56 | 63 | 61 | 63 | 58 | 62 | 5 | | | NIW. | annut states (c) |
| 69/ | 1 | 705 | 670 | 705 | 71.5 | 690 | 690 | 625 | 570 | 53 5 | 55.0 | 720 | 79 5 | 735 | 74.5 | 730 | 715 | 77.5 | 750 | 75.5 | 73.6 | 7/0 | 65.0 | 625 | 58.0 | 70.5 | 790 | 726 | 740 | 72.6 | 715 | 625 | | 1 | MA | 13 |
| | 2.115 | 138 | 1/3 | 99 | 43 | 51 | 56 | 40 | 72 | 84 | 153 | 160 | 58 | 17 | 30 | 73 | 49 | 19 | 26 | 71 | 68 | 40 | 68 | 71 | 35 | 101 | 116 | 63 | 58 | 75 | 116 | 35 | | / seem | (M) | W.T.W. |
| | - | 100 56 | 100 59 | 100 55 | 100 48 | 100 54 | 100 70 | 100 50 | 100 50 | 100 50 | 66 42 | 100 52 | 100 54 | 100 55 | 100 51 | 100 60 | | 100 51 | 100 53 | 100 58 | | | 100 64 | | 95 69 | | 100 57 | | 100 63 | 100 54 | 100 68 | 100 51 | | 100 | (4) | FEL HUM. |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | MENA KAD |
| No. | TOT. | 31 | 30 | 29 | 28 | 27 | 8 | 25 | 21 | 23 | 8 | _ | 20 | 19 | 18 | 17 | 76 | 15 | 1 | 13 | 120 | 11 | 10 | ٥ | 8 | 7 | 0 | JI . | 4 | W. | N | 1 | (YR.) | 1863 | 5 | APR |
| | 0 2200 | | | | | | | | | | | | | | | | | | | 4 | | | | | | 0.25 | | | | | | 0.03 | ٤ | (J. | 1 | No. of the Party o |
| 2 83 | 2,509 | | 80 | 80 | 83 | 87 | 98 | 89 | 38 | 28 | 88 | 88 | 87 | 84 | 80 | 75 | 76 | 75 | 23 | 90 | 88 | 87 | 84 | 75 | 80 | 80 | 200 | 84 | 82 | 03 | 79 | 79 | | MAA. | WAY | ALK |
| 61 | 177 | | 5 | 5 | 6 | 6 | 6 | 2 | 6 | 6 | 0 | 5 | 5 | 5 | 5 | (h | 1 | ٨ | 3 | 6 | 2 | 6 | O. | <× | 200 | 0 | 5 | (h | (n | 5 | | | | | | MAIL M |

| DATA - EVERGLADES EXPERIMENT STATION BELLE GLADE, FLORIDA | | HYD ROLOGIC DATA |
|---|--------|-----------------------|
| | GLADE, | EVERGLADES EXPERIMENT |

| N. | TOT. | 31 | 30 | 29 | 88 | 27 | 8 | 25 | 21 | 23 | 13 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | F | 13 | 10 | 11 | 10 | ٥ | В | 7 | 0 | 'n | 4 | W | N | 1 | (YR.) | 10. NO. | |
|------|-------|----|------|-----|-----|------|------|------|------|-----|-----|------|-----|-----|------|------|-----|------|------|-----|------|------|-----|-----|-----|------|-----|------|-----|------|------|------|-------|---------|----------------|
| | 028 | | | | | | | | | | | | | | | | | | | 4 | | | | | | 0.25 | | | | | | 0.03 | | (IN.) | RAIN FALL |
| 2 83 | 2,509 | | 80 | 80 | 83 | 87 | 98 | 89 | 28 | 28 | 88 | 88 | 87 | 84 | 80 | 75 | 76 | 75 | 50 | 90 | 88 | 87 | 84 | 75 | 80 | 8 | 200 | 84 | 82 | 03 | 79 | 79 | | WAX. | AII |
| 575 | 1,725 | | 58 | 58 | 60 | 62 | 65 | 66 | 60 | 61 | 61 | 57 | 55 | 52 | 51 | 50 | 46 | 46 | 58 | 66 | 62 | 61 | 58 | 59 | 56 | 62 | 54 | 54 | 56 | 56 | 61 | 53 | | MIN. | AIR TEMP. ("F) |
| 705 | 1 | | 69.0 | 690 | 100 | 79.5 | 75.5 | 77.5 | 79.5 | 750 | 750 | 72.5 | 716 | 686 | 65.5 | 2.69 | 610 | 60 5 | 71.5 | 780 | 75.0 | 79.0 | 7/0 | 665 | 680 | 79.0 | 680 | 69.0 | 690 | 2 89 | 70.0 | 690 | | MM | (F) |
| | 2.199 | | 7.3 | 74 | 66 | 48 | 52 | 38 | 63 | 62 | 62 | 400 | 50 | 92 | 53 | 52 | 53 | 58 | 156 | 104 | 88 | 110 | 90 | 95 | 119 | 107 | 3/ | 27 | 65 | 89 | 130 | 148 | | ("174") | MIM |
| 1 | | 4. | 97 | 55 | 99 | 99 | 99 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 98 | 100 | 98 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 18 | 100 | 100 | 100 | 100 | | (%) | MAX MIN |
| | - | | 52 | 8 | \$ | 42 | 62 | 54 | 52 | 56 | 54 | 52 | 50 | 54 | 53 | 57 | 41 | 40 | 49 | 56 | 64 | 53 | 46 | 53 | 54 | 99 | 56 | 58 | 580 | 58 | 69 | 67 | | 8 | HUM. |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | REMARKS |

HYDROLOGIC DATA - EVERGLADES EXPERIMENT STATION BELLE CLADE, FLORIDA

HYDROLOGIC DATA - EVERGLADES EXPERIMENT STATION BELLE GLADE, FLORIDA

| DATE | RAIN FALL | AI | R TEMP. (| F) | WIND | MAX | | REMARKS |
|---------------|-----------|-------|-----------|------|-------|-----|----|---------|
| MO. | (IN.) | MAX. | MIN. | MN | (MI.) | (%) | | - |
| 1963 (YR.) | | | | | | | | |
| 1 | | 190 | 70 | 80.3 | 26 | 100 | 68 | |
| 2 | | 90 | 76 | 803 | 45 | 100 | 60 | |
| _3 | | 90 | 70 | 80.0 | 22 | 100 | 54 | |
| 4 | 2 | 91 | 71 | 81.0 | 24 | 100 | 60 | |
| 5 | 0.32 | 92 | 70 | 81.0 | 19 | 100 | 58 | |
| 6 | 0.01 | 92 | 72 | 82.0 | 2 | 100 | 60 | |
| 7 | | 93 | 74 | 83.5 | 16 | 100 | 54 | |
| 8 | | 93 | 73 | 83.6 | 25 | 100 | 60 | |
| 9 | | 93 | 72 | 82.5 | 45 | 100 | 54 | |
| 10 | | 92 | 70 | 81.0 | 24 | 100 | 52 | |
| 11 | | 90 | 71 | 80.5 | 96 | 100 | 58 | |
| 12 | 0.05 | 89 | 69 | 79.0 | 20 | 100 | 60 | |
| 13 | | 99 | 69 | 81.5 | 21 | 100 | 96 | |
| 14 | 0.26 | 90 | 68 | 79.0 | 18 | 100 | 62 | |
| 15 | | 92 | 69 | 80.5 | 20 | 100 | 61 | |
| 16 | 0.08 | 92 | 71 | 81.5 | 17 | 100 | 56 | |
| 17 | 0.16 | 88 | 71 | 79.5 | 18 | 100 | 68 | |
| 18 | | 92 | 71 | 81.5 | 97 | 100 | 54 | |
| 19 | | 92 | 71 | 81.5 | 59 | 100 | 58 | |
| 20 | | 93 | 69 | 81.0 | 51 | 100 | 58 | |
| 21 | 0.09 | 92 | 74 | 83.6 | 23 | 100 | 60 | |
| 22 | | 93 | 74 | 835 | 55 | 100 | 52 | |
| 23 | | 92 | 72 | 820 | 61 | 100 | 52 | |
| 24 | | 89 | 72 | 80.5 | 37 | 100 | 56 | |
| 25 | | 92 | 69 | 80.5 | 39 | 100 | 5/ | |
| 26 | | 92 | 72 | 82.0 | 61 | 100 | 57 | |
| 27 | | 91 | 71 | 81-0 | 70 | 100 | 58 | |
| 28 | 001 | 91 | 69 | 80.0 | 91 | 100 | - | |
| 29 | 0.01 | 91 | 69 | 800 | 32 | 100 | 54 | |
| 30 | 0.03 | 87 | 70 | 78.5 | 13 | 99 | 70 | |
| 31 | 0.81 | 98 | 67 | 77.5 | 23 | 100 | 60 | |
| TOT. | 1.78 | 2,826 | 2.190 | _ | 1,070 | | | |
| MN . | | 912 | 70.6 | 80.9 | 1 | | | |

| DATE | RAIN FALL | AIR | TEMP. (| F) | WIND | MAX | | RE MARKS |
|-------|-----------|-------|---------|------|-------|-----|----|----------|
| MO. | (IN.) | MAX. | MIN. | MN | (MI.) | (%) | | |
| (YR.) | | | | | | | | |
| 1 | 0.66 | 90 | 69 | 79.5 | 24 | 199 | 54 | |
| 2 | | 93 | 69 | 810 | 28 | 99 | 95 | |
| 3 | 003 | 92 | 69 | 80.5 | 18 | 99 | 96 | |
| 4 | 1-08 | 90 | 71 | 80.5 | 23 | 99 | 52 | |
| 5 | 0.10 | 91 | 73 | 82.6 | 60 | 99 | - | - |
| 6 | | 90 | 71 | B05 | 30 | 99 | 60 | |
| 7 | | 93 | 71 | 82.6 | 55 | 100 | 52 | |
| . 8 | | 90 | 68 | 79.6 | 27 | 100 | 55 | 7 8 |
| 9 | | 94 | 72 | 83.6 | 36 | 97 | 39 | 1.0 |
| 10 | | 93 | 71 | 82.6 | 43 | 98 | 52 | |
| 11 | | 94 | 75 | 84.5 | 61 | 95 | 97 | |
| 12 | | 94 | 72 | 836 | 36 | 98 | 48 | |
| 13 | | 95 | 72 | 83.5 | 41 | 100 | 44 | |
| 14 | 0.02 | 91 | 73 | 826 | 40 | 98 | 54 | |
| 15 | 0.01 | 94 | 72 | 83.6 | 36 | 100 | 55 | |
| 16 | | 93 | 73 | 83.0 | 33 | 100 | 53 | |
| 17 | 0.57 | 94 | 70 | 82.0 | 33 | 100 | 54 | |
| 18 | | 90 | 70 | 800 | 15 | 100 | 76 | |
| 19 | 1.10 | 91 | 67 | 790 | 22 | 100 | 55 | |
| 20 | 0.73 | 91 | 70 | 805 | 18 | 100 | 54 | |
| 21 | 0-13 | 88 | 69 | 78.5 | 27 | 100 | 70 | |
| 22 | 0.20 | 89 | 68 | 78.5 | 25 | 100 | 75 | |
| 23 | | 89 | 68 | 785 | 19 | 100 | 80 | |
| 24 | | 91 | 71 | 81.0 | 26 | 100 | 50 | |
| 25 | | 92 | 70 | 81.0 | 34 | 100 | 48 | |
| 26 | 001 | 92 | 70 | 81.0 | 31 | 100 | 52 | |
| 27 | | 92 | 76 | 810 | 9 | 100 | 51 | |
| 28 | 0.30 | 90 | 72 | 81.6 | 50 | 100 | 80 | |
| 29 | | 92 | 70 | 81.0 | 48 | 100 | 67 | |
| 30 | | 93 | 72 | 82.5 | 49 | 100 | 65 | |
| 31 | 001 | 90 | 70 | 800 | 39 | 100 | 59 | |
| TOT. | 4.95 | 2.04/ | 2.188 | | 1,036 | | | |
| MN. | | 91-6 | 70.6 | 811 | | | | |

HYDROLOGIC DATA - EVERGLADES EXPERIMENT STATION BELLE GLADE, FLORIDA

HYDROLOGIC DATA - EVERGLADES EXPERIMENT STATION BELLE GLADE, FLORIDA

| DATE | RAIN FALL | AIR | TEMP. (| F) | WIND | MAX MIN. | REMARKS |
|---------------|-----------|-------|---------|-------|-------|----------|----------|
| MO. | (IN.) | MAX. | MIN. | MN | (MI.) | (%) | |
| 1963 (YR.) | | | | | | | , |
| 1 | | 79 | 53 | 660 | 42 | 96 51 | |
| 2 | | 81 | 61 | 71-0 | 96 | 100 53 | |
| 3 | | 70 | 46 | 580 | 68 | 100 46 | |
| 4 | 1 | 77 | 57 | 67.0 | 68 | 97 51 | |
| 5 | 0.30 | 80 | 67 | 73.5 | 70 | 100 60 | |
| 6 | 0.05 | 81 | 66 | 7.3.5 | 68 | 100 66 | |
| .7 | 0.01 | 90 | 58 | 69.0 | 54 | 100 60 | |
| 8 | | 80 | 47 | 63.5 | 59 | 100 44 | |
| 9 | | 79 | 51 | 65.0 | 21 | 100 47 | |
| 10 | 0.06 | 83 | 65 | 740 | 39 | 100 60 | |
| 11 | 1.78 | 78 | 67 | 72.5 | 71 | 100 95 | |
| 12 | 0.58 | 75 | 69 | 69.5 | 29 | 100 89 | |
| 13 | | 78 | 58 | 68.0 | 99 | 98 74 | |
| 14 | | 69 | 41 | 55.0 | 87 | 89 39 | ļ |
| 15 | | 61 | 39 | 50.0 | 90 | 92 43 | |
| 16 | | 72 | 49 | 60.5 | 69 | 100 50 | |
| 17 | | 76 | 51 | 63.5 | 46 | 100 97 | |
| 18 | | 78 | 53 | 65.5 | 63 | 100 50 | |
| 19 | | 80 | 53 | 66.5 | 69 | 100 54 | İ |
| 20 | | ଞା | 53 | 67.0 | 60 | 100 52 | |
| 21 | | 91 | 57 | 69.0 | 70 | 100 52 | |
| 22 | | 82 | 58 | 70.0 | 69 | 100 51 | <u> </u> |
| 23 | | 81 | 55 | 680 | 32 | 100 59 | |
| ᆀ | | 82 | 62 | 720 | 16 | 100 55 | |
| 25 | | 83 | 57 | 70.0 | 19 | 100 51 | |
| 26 | | 24 | 59 | 71.5 | 8 | 100 52 | |
| 27 | - | 84 | 59 | 715 | 10 | 100 55 | |
| 28 | | 85 | 60 | 725 | 12 | 100 52 | |
| 29 | 001 | 81 | 63 | 72.0 | 63 | 100 60 | |
| 30 | | 78 | 47 | 62.5 | 235 | 64 46 | |
| 31 | | | | | | | |
| TOT. | 279 | 2,359 | 1,676 | | 1,747 | | |
| MN - | | 78.6 | 55.9 | 67.2 | | | |

| DATE | RAIN FALL | AIR | TEMP. (6 | F) | WIND | MAX | | REMARKS |
|-------|-----------|------|----------|------|-------|-----|-----|---------|
| MO. | (IN.) | MAX. | MIN. | MN | (MI.) | (%) | | |
| 1963 | | | | | | | | |
| (YR.) | | | | | | | 300 | |
| 1 | | 6.2 | 45 | 535 | 179 | 95 | 50 | |
| 2 | | 62 | 39 | 50.5 | 16 | 96 | 36 | |
| 3 | 1 | 71 | 43 | 57.6 | 75 | 100 | 51 | |
| 4 | | 73 | 43 | 580 | 78 | 100 | 50 | |
| _ 5 | | 63 | 43 | 540 | 55 | 92 | 51 | |
| 6 | | 68 | 43 | 55.5 | 66 | 100 | 42 | |
| _ 7 | | 68 | 43 | 55.5 | 56 | 100 | 43 | |
| 8 | | 72 | 55 | 63.5 | 23 | 100 | 56 | |
| 9 | | 78 | 50 | 640 | 61 | 100 | 50 | |
| 10 | | 66 | 37 | 51.5 | 62 | 100 | 50 | |
| 11 | | 67 | 94 | 55.5 | 22 | 96 | 90 | |
| 12 | | 78 | 48 | 630 | 20 | 100 | 51 | |
| 13 | | 83 | 50 | 66.5 | 3/ | 100 | 55 | _ |
| 14. | | 84 | 55 | 69.5 | 3/ | 100 | 54 | |
| 15 | 0.02 | 86 | 59 | 72.5 | 73 | 100 | 67 | |
| 16 | 002 | 68 | 56 | 620 | 125 | 100 | 58 | |
| 17 | 0.17 | 68 | 56 | 620 | 95 | 100 | 58 | |
| 18 | 0.89 | 62 | 58 | 600 | 121 | 100 | 58 | |
| 19 | | 63 | 43 | 555 | 119 | 100 | 56 | |
| 20 | | 63 | 42 | 52.5 | 81 | 100 | 58 | |
| 21 | | 66 | 47 | 565 | 45 | 100 | 61 | |
| 22 | | 72 | 44 | 58.0 | 52 | 100 | 57 | |
| 23 | | 77 | 53 | 650 | 19 | 100 | 53 | |
| ଥ | 0.12 | .76 | 53 | 64.5 | 117 | 100 | 76 | |
| 25 | | 60 | 39 | 49.5 | 151 | 98 | 64 | |
| 26 | | 58 | 33 | 45.5 | 60 . | 100 | 58 | |
| 27 | | 64 | 39 | 51.5 | 40 | 100 | 50 | |
| 28 | | 73 | 44 | 58.5 | 20 | 100 | 48 | |
| 29 | | 7.5 | 46 | 605 | 12 | 100 | 52 | |
| 30 | | 76 | 53 | 64.5 | 59 | 100 | 50 | |
| 31 | 4.44 | 72 | 61 | 66.5 | 119 | 100 | 79 | |
| TOT. | 5-66 | 2185 | 1,464 | - | 1,993 | | | |
| MN. | | 70.5 | 47.2 | 58.8 | | | | |

PART V

Monthly Hydrologic Data

Everglades Experiment Station

1963

Division 2 - Standard Pan and Land Tank Evaporation

HYDROLOGIC DATA - EVERGLADES EXPERIMENT STATION BELLE GLADE, FLORIDA

| DATE | | RADIATION | | FREE WATER | EVAPORATION | | EVAPOTRANSPIRATION | | | |
|-----------|-----------|--|--------|------------|-------------|------------|--------------------|-------------|--|--|
| MAR | NET R. | TOTAL R. | STD. C | A SSA | LAND | TANKS | EVAPOTRANS | PIROME TERS | | |
| (MO.) | LANGLEY'S | GUNN-BELLANI | P2 | P3 | T7 (ALUM.) | TB (BLACK) | Tl | 72 | | |
| 963 | | UNITE | (IN.) | (IN.) | (IN.) | (IN.) | (IN.) | (IN.) | | |
| (YR.) | | | - | () | (100.4) | 1000 | 4-0.0 | | | |
| (True) | | | 110 | 1.2 | 1 11 | 100 | | | | |
| 1 | | | 112 | 13 | .11 | 11/ | | | | |
| 2 | | | 111 | 12 | .06 | 06 | | | | |
| 3 | | | 122 | 20 | -11 | .10 | | | | |
| <u>li</u> | | | 116 | 16 | 110 | -11 | | | | |
| 5 | | | 121 | 20 | .12 | 11 | | | | |
| 6 | | | 18 | | .15 | .15 | | | | |
| 7 | | | 18 | .07 | .15 | 13 | | | | |
| 8 | - 1 | | 18 | 121 | 12 | | | | | |
| 9 | | | 14 | 13 | :13 | .20 | | | | |
| 10 | | | | | .10 | .10 | | | | |
| 12 | | | 16 | 16 | :/3 | .13 | | | | |
| | | | .20 | 121 | .15 | 14 | | | | |
| 11. | | | .16 | .17 | 117 | .12 | | | | |
| 15 | | | JR | JB | 13 | .12 | | | | |
| 16 | | | 16 | .16 | .14 | .15 | | | | |
| | | | .22 | -24 | 18 | .18 | | | | |
| 17 | | | | | | .16 | | | | |
| 18 | | | -21 | .20 | .16 | | | | | |
| 19 | | | .17 | .16 | .13 | .14 | | | | |
| 20 | | | .30 | .23 | .34 | .34 | | | | |
| 21 | | | 34 | :34 | .41 | 44 | | | | |
| 22 | | | .24 | :27 | 28 | .27 | | | | |
| 23 2h | | | .20 | .23 | .21 | .21 | | | | |
| 25 | | | 18 | 19 | . 15 | .15 | | | | |
| 26 | | | .12 | .12 | .11 | .12 | | | | |
| 27 | | | .24 | .22 | .16 | 15 | | | | |
| 28 | | | .19 | .21 | ./3 | 13 | | | | |
| 20 | | | .23 | .24 | .17 | .16 | | | | |
| 30 | | | .19 | .20 | .19 | .19 | | | | |
| 31 | | | .24 | .15 | .21 | .27 | | | | |
| TOT. | | | 5.94 | 594 | 5.00 | 5.04 | | | | |
| Mel . | | 1 | 4117 | | | | | | | |

| DATE | | RADIATION | | PREE WATER | EVAPORATION | | EVAPOTRAN | SPIRATION |
|-------|--|--------------|--------|------------|-------------|------------|-----------|-------------|
| APR | NET R. | TOTAL R. | STO. | CLASS A | TAND | TANKS | | PIROME TERS |
| (MO.) | LANGLEY'S | GUNN-BELLANI | P2 | P3 | T7 (ALUM.) | TB (BLACK) | Tl. | T2 |
| 963 | | UNITE | (IN+) | (IN.) | (IN.) | (IN.) | (IN.) | (IN.) |
| (YR.) | | | | 4 | (| 1-11-1 | /2007 | / 274 = 1 |
| | | | 15 | 150 | 11.4 | 1 cm | | |
| 2 | | | | 16 | 114 | ./3 | | |
| 3 | | | .22 | 24 | .19 | 11 | | |
| 1. | | | .20 | .21 | .17 | 119 | | |
| 5 | | | 17 | :17 | .14 | .17 | | |
| 6 | | | .19 | .20 | 15 | 15 | | |
| 7 | † | | .26 | .26 | 23 | .23 | | |
| 8 | | | .19 | .20 | .2 | 20 | | |
| 9 | | | 22 | .23 | 17 | .15 | | |
| 10 | | | .23 | .27 | .25 | .25 | | |
| 11 | | | .27 | .27 | ,22 | 121 | | |
| 12 | | | .25 | .28 | .18 | .19 | | |
| 13 | | | .26 | .27 | .20 | . 19 | | |
| 11. | | | 34 | .36 | . 33 | -36 | | |
| 15 | | | ,27 | .26 | .28 | .27 | | |
| 16 | | | .27 | .27 | . 25 | .25 | | |
| 17 | | | .22 | .22 | ,21 | .21 | | |
| 18 | | | .25 | .25 | ,22 | .22 | | |
| 19 | | | 26 | 25 | .18 | .18 | | |
| 20 | | | .26 | .27 | .20 | .20 | | |
| 21 | | | 24 | .25 | 119 | .19 | | |
| 22 | | | ,23 | .25 | 118 | .18 | | |
| 23 | | | 23 | .26 | .22 | . 22 | | |
| 24 | | | .23 | .27 | . 20 | .20 | | |
| 25 | | | .23 | .21 | .19 | .1.5 | | |
| 26 | | | ,26 | .23 | .18 | .19 | | |
| 27 | | | .24 | .20 | 2 | ,21 | | |
| 20 | | | .23 | .21 | .23 | .25 | | |
| 30 | | | .25 | .27 | 125 | 26 | | |
| 31 | | | .22 | :21 | .24 | .23 | | |
| TOT. | | | 6.47 | 7 29 | 7.11 | 7.40 | | |
| Me) . | | | CALL I | 7.29 | Ca. 11 | 6,08 | | |

HYDROLOGIC DATA - EVERGLADES EXPERIMENT STATION BELLE GLADE, FLORIDA

| DATE | SOLAR I | RADIATION | | FREE WATER | EVAPORATION | | EVAPOTRANSPIRATION | | |
|-------|--|--|-------|------------|-------------|------------|--------------------|-------------|--|
| JULY | NET R. | TOTAL R. | STD. | CLASS A | | TANKS | EVAPOTRANS | PIROME TERS | |
| (MO.) | LANGLEY'S | GUNN-BELLANI | P2 | P3 | T7 (ALUM.) | TB (BLACK) | 71 | T2 | |
| 1963 | | UNITE | (IN.) | (IN.) | (IN.) | (IN.) | (IN.) | (IN.) | |
| (YR.) | | | | (2311) | (2010) | (200) | (2.17) | (| |
| () | | | 0.7 | -1.1.0 | 140 | 10 | | | |
| 1 | | | .22 | 7/1/43 | 16 | 13 | | | |
| 2 | | | .27 | | .24 | 122 | | | |
| - 3 | | | .21 | 0 | .21 | .19 | | | |
| 11 | | - | .27 | - | .24 | 21 | | | |
| 5 | | | .22 | 0 | .19 | .70 | | | |
| 6 | | | .2/ | 0 | .18 | | | | |
| 7 | | | .25 | * | .23 | .27 | | | |
| А | | + | .3/ | 3 | .20 | .22 | | | |
| 20 | | - - - | 30 | 7 | .30 | .25 | | | |
| 10 | | | 21 | Z | .22 | .21 | | | |
| 11 | | | .13 | è | .14 | 17 | | | |
| 13 | | | .27 | to | .13 | .22 | | | |
| 1/1 | | - | 113 | | 12 | 17 | | | |
| 15 | - | | .20 | 0 | .19 | .20 | | | |
| 16 | | | .19 | | .14 | .14 | | | |
| 17 | | | .10 | | .14 | .12 | | | |
| 18 | | | 129 | | .23 | .23 | | | |
| 19 | | _ | 127 | | ,22 | .22 | | | |
| 50 | | | .25 | | .23 | 124 | | | |
| 21 | | | .16 | | .17 | .15 | | | |
| 22 | | | ,25 | | .22 | . 23 | | | |
| 27 | - | | .2FI | | .27 | .27 | | | |
| 21 | | | 1.15 | | .17 | 16 | | | |
| 25 | | | .30 | | .25 | .25 | | | |
| 26 | | | .30 | | . 25 | ,25 | | | |
| 27 | | | . 24 | | .22 | 25 | | | |
| 28 | | | .18 | | . 18 | .18 | | | |
| 29 | | | .16 | | .17 | 17 | | | |
| 30 | | | .07 | | .09 | 10 | | | |
| 31 | | | .15 | | .16 | .18 | | | |
| TOT. | | | 6.83 | | 6.11 | 6.20 | | | |
| M1. | | | | | | | | | |

| DATE | | RADIATION | | FREE WATER | EVAPORATION | | EVAPOTRAN | SPIRATION |
|-------|--------------|--------------|---------|------------|-------------|------------|-----------|-------------|
| AUG | NET R. | TOTAL R. | STD. CI | | | TANKS | | PIROME TERS |
| (MO.) | LANGLEY'S | GUNN-BELLANI | P2 | P3 | T7 (ALUM.) | TB (BLACK) | Tl | T2 |
| 1963 | | UNITE | (IN.) | (IN.) | (IN.) | (IN.) | (IN.) | (IN.) |
| (YR.) | | | | | | | | |
| 1 | | | .19 | | 115 | 16 | | |
| 2 | | | .24 | | .18 | .16 | | |
| 3 | | | .20 | | .19 | .18 | | |
| 1, | | | .22 | | .18 | .21 | | |
| 5 | | | .27 | | 24 | , 22 | | |
| 6 | | | 119 | | 117 | .17 | | |
| 7 | | | . 27 | | .22 | .22 | | |
| P | | - | .19 | | .19 | .18 | | |
| 10 | | | 28 | | .23 | 25 | | |
| 11 | | - | .29 | | 124 | 25 | | |
| 12 | | | .30 | | :22 | .22 | | |
| 13 | | | .28 | | .23 | .24 | | |
| 11. | | | .18 | | 18 | .17 | | _ |
| 15 | | | ,20 | - | .19 | .19 | | |
| 16 | | | .23 | | .14 | .18 | | |
| 17 | | | .21 | | .27 | .23 | | |
| 18 | | | .12 | | .12 | .13 | | |
| 19 | | | .16 | | .18 | .19 | | |
| 20 | | | .19 | | .18 | .27 | | |
| 21 | | | .14 | | .12 | 03 | | |
| 22 | | | .12 | | . (4 | .12 | | |
| 27 | | | .13 | | 142. | .12 | | |
| 25 | | | .25 | | .17 | 17 | | |
| 26 | | | .26 | | .20 | .20 | | |
| 27 | | | .21 | | 18 | . (8) | | |
| 28 | | | .17 | | | 17 | | |
| 20 | | | .21 | | .18 | 119 | - | |
| 30 | | | .22 | | 131 | 22 | | |
| 31 | | | .13 | - | .14 | 14 | | |
| POT. | | | 650 | | 5.82 | 5.77 | | |
| MEI. | | | | | anne. | 9177 | | |

HYDROLOGIC DATA - EVERGLADES EXPERIMENT STATION BELLE GLADE, FLORIDA

| DATE | | RADIATION | | FREE WATER | EVAPORATION | | EVAPOTRAN | SPIRATION |
|--------|-------------|--------------|--------|------------|-------------|------------|------------|-----------|
| NOV | NET R. | TOTAL R. | SID. C | | | TANKS | EVAPOTRANS | |
| (MO*) | LANGLEY'S | GUNN-BELLANI | P2 | F3 | T7 (ALUM.) | TS (BLACK) | 71 | 72 |
| 1963 | | UNITE | (IN.) | (IN.) | (IN.) | (DI.) | (DI.) | (DI.) |
| (IR.) | | | 3,2 | (2011) | / 44.4 | / 40.47 | (40+) | (40.0) |
| (ame) | | | 1 | | 1.00 | 1.00 | | |
| 1 | | | .15 | | 117 | .17 | | |
| 3 | | | .12 | | .1/ | .12 | | |
| 1 | | | 11 | | .19 | 17 | | |
| 5 | | | .15 | | 112 | | | |
| 6 | | | .14 | | .03 | . 05 | | |
| 7 | | | .14 | | | .05 | | |
| В | | 1 | .16 | | 16 | 17 | | |
| 0 | | | . 13 | | .14 | .14 | | |
| 10 | | | .05 | | 100 | .01 | | |
| 11 | | | .10 | | .07 | .05 | | |
| 12 | | | .04 | | . 03 | .04 | | |
| 13 | ļ | | .14 | | .13 | .12 | | |
| 11. | | | .22 | | 28 | .26 | | |
| 15 | | | .16 | | .26 | .24 | | |
| 16 | | | .12 | | .14. | .14 | | |
| 17 | | | ,12 | | .10 | .10 | | |
| 18 | ļ | | .13 | | .09 | .11 | | |
| 19 | | | 115 | | .11 | .12 | | |
| 20 | | | .17 | | .10 | . 11 | | |
| 20 | | | 116 | | 110 | 1.1 | | |
| 23 | | | 116 | | 10 | 08 | | |
| 21. | | | .69 | | .05 | 45 | | |
| 25 | | | 112 | | .48 | .09 | | |
| 26. | | | 11/ | | .08 | .08 | | |
| 27 | | | -11 | | .07 | 57 | | |
| 28 | | | .11 | | 107 | 07 | | |
| 29 | | | 107 | | .07 | .07 | | |
| 30 | | | .24 | | ,10 | .37 | | |
| 31 | | | | | | | | |
| TOT. | | | 3.86 | | 3.21 | 3,53 | | |
| MI. | | | | | | | | |

| DATE | | RADIATION | | PREE WATER | EVAPORATION | | EVAPOTRANSPIRATION | | |
|------------|--|--|---------|------------|-------------|------------|--------------------|-------------|--|
| FC | NET R. | TOTAL R. | STD. CL | ASS A | LAND | TANKS | EVAPOTRANS | PIROME TERS | |
| (MO.) | LANGLEY'S | GUNN-BELLANI | P2 | P3 | T7 (ALUM.) | TB (BLACK) | 71 | 12 | |
| 963 | | UNITE | (IN.) | (IN.) | (IN.) | (IN.) | (IN.) | (IN.) | |
| (YR.) | | | | 3 | 1-1-7 | 4 | 7-0-5 | 1,23.07 | |
| | | | . 2 | | 1.0 | .18 | | | |
| 2 | | | .12 | | 18 | .19 | | | |
| 3 | | | | | 109 | | | | |
| Je. | | | .08 | | 107 | .10 | | | |
| E | | | 112 | | 12 | .09 | | | |
| 6 | | - | ./2 | | 113 | .15 | | | |
| 7 | | | .14 | | 112 | .15 | | | |
| 8 | | | .05 | | . 06 | 0.2 | | | |
| 0 | | | 14 | | ,19 | -11 | | | |
| 10 | | | .14 | | .16 | 13 | | | |
| 11 | | | .14 | | .1.3 | .11 | | _ | |
| 12 | | | .07 | | .06 | .08 | | | |
| 13 | | | . 01. | | . 63 | 06 | | | |
| 14 | | | .12 | | .04 | .04 | | | |
| 15 | | | .14 | | .06 | .06 | | | |
| 16 | | | 126 | | .02 | . 11 | | | |
| 17 | | | .08 | | .10 | . 68 | | | |
| 18 | | | .00 | | .02 | .01 | | | |
| 19 | | | .14 | | 1.15 | .15 | | | |
| 20 | | | . 1/ | | .14 | .13 | | | |
| 21 | | | 106 | | . 68 | -10 | | | |
| 22 | | | . 10 | | .08 | 09 | | | |
| 23 | | | . 08 | | .0.5 | .06 | | | |
| 21. | | | . 67 | | .05 | .05 | | | |
| 25 | | | .17 | | | .19 | | | |
| 26 | | | .19 | | .11 | .11 | | | |
| 27 | | | .09 | | 109 | .09 | | | |
| 28 | | | .06 | | 107 | .08 | | | |
| 20 | | | 10 | | .06 | .07 | | | |
| 30 | | | | | .06 | 07 | | | |
| 51 DOT- | | | 3.15 | | .09 | .10 | | | |
| Mei. | | | 17.19 | | 3.03 | 3.07 | | | |

PART VI

Daily Mean Ground Water Stage
Upper Taylor Creek Watershed
(W-2), (W-3)

MEAN DAILY GROUND-WATER STAGE (WATERSHED AREAS) (FEST BELOW GRD. SURF.)

| DATE | | | ПРРЕ | R TAYLO | R CREE | | | | INDIAN | RIVER | FARMS | | | MONR | EVE RAN | CH | |
|--------------|------|------|------|-------------|-------------|-------|------|---|--------|-------|-----------------|-----|------|------|---------|----------|---|
| DEC | 1 | 2 | 3 | Ь | 5 | 6 | 7 | 1 | 2 | 3 | <u>h</u> | 5 | 1 | 2 | 3 | <u> </u> | 5 |
| (MO) (TR) | | - | | | | | | | AYG. | | 2 4¥6 W-3 | | Line | | Line | - | |
| 1 | 1.80 | 2.14 | 3 48 | 3.71 | 332 | 331 | 186 | | 2.80 | | 197 | | 2.42 | | 2.54 | | |
| 2 | 1.93 | 218 | 3.50 | 374 | 3 35 | 3 34 | 192 | | 2.85 | | 2.06 | | 2.45 | | 2.62 | | |
| 3 | 1.98 | 222 | 355 | 3.75 | 338 | 3.38 | 1.99 | | 2.89 | | 216 | | 2.51 | | 2.67 | | |
| 4 | 2.01 | 225 | 361 | 3.77 | 3.4/ | 3.41 | 2.05 | | 2.93 | | 2.13 | | 2.54 | | 269 | | |
| 5 | 1.82 | 2.29 | 361 | 3.7.2 | 3.42 | 3.13 | 2.00 | | 2.91 | | 206 | | 2.54 | | 2.47 | | |
| 6 | 1.8/ | 2.32 | 315 | 3.80 | 3.43 | 3.44 | 2.09 | | 2.73 | | 206 | | 2.52 | | 2,39 | | |
| 7 | 206 | 2.35 | 3.72 | 3.82 | 3.45 | 3.96. | 2.13 | | 3.00 | | 2.26 | | 2.57 | | 2.49 | | |
| 8 | 2.05 | 2.38 | 3.70 | 3.83 | 3 48 | 3.99 | 2.17 | | 3.01 | | 222 | | 2.60 | | 2.53 | | |
| 9 | 1.86 | 2.90 | 3.43 | 3.85 | 348 | 3 98 | 263 | | 2.96 | | 2.13 | | 2.51 | | 2.14 | | |
| 10 | 2.00 | 2 44 | 3 76 | 3 <i>68</i> | 349 | 3 99 | 212 | | 3.02 | | 222 | | 2.54 | | 2.25 | | |
| 11 | 217 | 2.97 | 3.76 | 340 | 3.53 | 350 | 2.23 | | 300 | | 2.32 | | 2.59 | | 2.36 | | |
| 12 | 2./2 | 2.41 | 3.79 | 392 | 355 | 3.53 | 2.26 | | 309 | | 2.36 | | 2.61 | | 2.37 | | |
| 13 | 218 | 252 | 381 | 3.93 | 3.57 | 3.55 | 230 | | 3.12 | | 235 | | 2.63 | | 2.4/ | | |
| 1), | 2.20 | 254 | 3 82 | 3.94 | 328 | 358 | 2.33 | | 3.14 | | 2.38 | | 2,65 | | 2,43 | | |
| 15 | 219 | 257 | 3.83 | 3.96 | 359 | 3.61 | 235 | | 3.16. | | 2.38 | 1 2 | 2,66 | | 2,43 | | |
| 16 | 2.18 | 2.60 | 3 93 | 397 | 361 | 3.65 | 2.37 | | 317 | | 2.39 | | 2.66 | | 2.42 | | |
| 17 | 2 15 | 263 | 3 5% | 3,98 | 363 | 368 | 2 39 | | 3.19 | | 2.39 | | 2.67 | | 2.40 | | |
| 18 | 2.17 | 264 | 393 | 399 | 364 | 369 | 242 | | 326 | | 2.46 | | 2.68 | | 2.41 | | |
| 19 | 219 | 265 | 396 | 900 | 365 | 371 | 2.45 | | 3 23 | | 292 | | 2.69 | | 2.42 | | |
| 20 | 2 20 | 267 | 3.96 | 93/ | 366 | 3.72 | 298 | | 3 24 | | 2.44 | | 2.70 | | 2,73 | | |
| 21. | 2.21 | 26 | 377 | 901 | 367 | 373 | 24/ | | 324 | | 244 | | 2.71 | | 2,44 | | |
| 22 | 2.23 | 270 | 398 | 901 | 3.67 | 3.75 | 243 | | 3.25 | | 246 | | 2.72 | | 2.46 | | |
| 23 | 2.25 | 270 | 400 | 402 | 370 | 3.74 | 246 | | 3.27 | | 2.48 | | 2.74 | | 2.46 | | |
| 2/4 | 217 | 271 | 398 | 902 | 3.70 | 3 72 | 2.58 | | 327 | | 244 | | 2.75 | | 2.44 | | |
| 25 | 159 | 2.72 | 398 | 903 | 369 | 370 | 243 | | 316 | | 216 | | 2.66 | | 2./8 | | |
| 26 | 194 | 273 | 399 | 403 | 369 | 3.67 | 2.15 | | 3.27 | | 2.34 | | 2,67 | | 2.24 | | |
| 27 | 2.09 | 2.73 | 397 | 403 | 3.7/ | 369 | 2.55 | | 3 25 | | 2.91 | | 2.71 | | 2.32 | | |
| 28 | 216 | 2.74 | 3.97 | 4.04 | 3.73 | 37/ | 260 | | 3.29 | | 245 | | 2.74 | | 2.35 | I | |
| 29 | 221 | 2.75 | 4.00 | 9.04 | 3 74 | 3 73 | 263 | | 3.30 | | 298 | | 2.76 | | 2.38 | | |
| 30 | 1.93 | 278 | 903 | 4.05 | 3.79 | 375 | 2.66 | | 327 | | 2.38 | | 2.7/ | | - | | |
| 31 | 2.22 | 21 8 | 402 | 406 | 387 | 377 | 272 | | 334 | | 2,50 | | 2.74 | | 2.57 | | |
| MEAN | 07 | 214 | 3.83 | 393 | 35 9 | 360 | 23) | | 3.12 | | 23/ | | | | | | |

| DATE | | | UPPER | TAYLO | R CREEK | | | | ENDIA | RIVER | FARMS | | MONREVE RANCH | | | | |
|----------|------|------|--------|-------|---------|-------|----------------------|------|-------|-------|--|---|---------------|---|------|---|---|
| JAM | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 1 | 2 | 3 | 14 | 5 | 1 | 2 | 3 | 4 | 5 |
| / (MQ) = | | | | | | | | | AYS | | AX6 | | Line | | Line | | |
| 1 | _ | 2.80 | 11 - 6 | 4.7 | 3.0- | 2 0 4 | 2 27 | | k/-2 | | W-3 | | A | | 9 | | |
| 2 | | 2.33 | 4.11 | 4.08 | 3.87 | 3.82 | 2.77 2.7 9 | * | 3.58 | | | | 2.79 | | 2.63 | | |
| 2 | | 2.84 | 4.15 | 4.09 | 3.90 | 3.84 | 2.82 | | 3.61 | | | | 5 34 | | 2.66 | | |
| 1 | | 2.84 | 4.15 | 4.10 | 3,92 | 3.87 | 2.87 | | 3/3 | | | | 2.89 | | | | |
| | | 2.88 | 4./8 | 4.12 | 3.94 | 3.29 | 2.87 | 水 | 3.65 | | | | 2.96 | | 2.74 | | |
| 6 | 1000 | 2.89 | 4.20 | 4./3 | 3.96 | 3.89 | 2.89 | - 1F | 3.66 | | | | 2.78 | | 2.74 | | |
| 7 | A | 2.90 | 7.07 | 416 | 3.92 | 3.88 | 2.74 | * | 3.62 | | | | 2.72 | - | 2.32 | | |
| 8 | 2./2 | 2.90 | 4.07 | 4./8 | 3.94 | 3.37 | 2.72 | - * | 3.40 | | 2.51 | | 2 7 | | 2.21 | | |
| 9 | 2.34 | 2.91 | 4 1: | 4.17 | 3.95 | 3.88 | 2.92 | | 3.46 | | 2.62 | | 2.70 | | 2,30 | | |
| 10 | 2.42 | 2.92 | 4.14 | 4.19 | 3.97 | 3.91 | 2.89 | | 3.49 | | 2.67 | | 2.76 | | 2.38 | | _ |
| 11 | 2.42 | 2 93 | 4.76 | 4.19 | 3 08 | 3.93 | 2.92 | | 3.51 | | 2.70 | | 2 37 | | 2.44 | | |
| 12 | 2,45 | 2.93 | 4.17 | 4.19 | 3,99 | 3.94 | 2.73 | | 3 51 | | 2.69 | | 2.83 | | 2.44 | | |
| 13 | 2.45 | 2 94 | 4.16 | 4.19 | 4.00 | 3.74 | 2.93 | | 3.52 | | 2.49 | | 2.83 | | 2.46 | | |
| 11/1 | 2.2/ | 2.95 | 4.15 | 4.19 | 4.00 | 295 | 2.86 | | 3.47 | | 2.58 | | 2.75 | | 2,22 | | |
| 15 | 1.78 | 2.95 | 4.04 | 4.18 | 3 88 | 3.89 | 2.59 | | 3.33 | | 2.36 | | 2.53 | | 1.86 | | |
| 16 | 1.98 | 2.95 | 4.02 | 4.19 | 3 93 | 3.84 | 2.59 | | 3.34 | | 2.46 | | 2.57 | | 1.91 | | |
| 17 | 2.11 | 2.96 | 4.02 | 4.19 | 3.82 | 3.82 | 2,62 | | 3.36 | | 2.53 | | 2.37 | | 1.98 | | |
| 18 | 2.23 | 2.96 | 4.01 | 4.17 | 3.82 | 3.52 | 2.68 | | 3.39 | | 2.59 | | 2.65 | | 2.10 | | |
| 19 | 236 | 2.96 | 4.40 | 7.17 | 3.83 | 3.84 | 2.76 | | 3.42 | | 2.66 | | 2.70 | | 2.26 | | |
| 20 | 2.43 | 2.97 | 3.99 | 4.19 | 3.86 | 3.87 | 2.82 | | 3.45 | | 2.70 | | 2.75 | | 2,34 | | |
| 21 | 2.06 | 2.97 | 3.98 | 4.21 | 3.35 | 3.34 | 2.63 | | 3.36 | | 251 | | 2.62 | | 1.25 | | |
| 22 | 2.17 | 2.96 | 3.95 | 4,21 | 3.75 | 3.70 | 3.52 | | 3.47 | | 2.56 | | 2.63 | | 1.15 | | |
| 23 | 2,30 | 2.96 | 3.97 | 4.21 | 3.75 | 3.66 | 3.6/ | | 3.79 | | 2.63 | | 2.71 | | 1.33 | | |
| 24 | 2 41 | 2.96 | 4.01 | 4.23 | 3.78 | 3.66 | 3.68 | | 3,53 | | 7.68 | | 2.75 | | 1.54 | | |
| 25 | 2.52 | 2,97 | 4.04 | 7.23 | 3.32. | 3.68 | 3.77 | | 3,58 | | 2.74 | | 2.82 | | 1.72 | | |
| 26 | 2.20 | 2.98 | 7.05 | 7.23 | 3.78 | 3.69 | 3.74 | | 3.52 | | 2.59 | | 2.76 | | 1.30 | | |
| 27 | 2./8 | 2.98 | 4.01 | 4.24 | 3.8/ | 3.66 | 3.69 | | 3,5/ | | 2,58 | | 2.73 | | 1.42 | | |
| 28 | 2.44 | 2.98 | 4.05 | 4.24 | 3.84 | 3.67 | 3.79 | | 3.57 | | 2.71 | | 2.77 | | 1.83 | | |
| 29 | 2.56 | 2.99 | 4.09 | 4.24 | 3.85 | 3.7/ | 2.89 | | 3.48 | | 2.77 | | 2.83 | | 2.02 | | |
| 30 | 2.59 | 3.00 | 4.15 | 4.26 | 3.90 | 3.76 | 2.94 | | 3,51 | | 2.79 | | 2.88 | | 2.11 | | |
| 31 | 2.63 | 3.00 | | 4.27 | 3.96 | 3.81 | 2.96 | | 3.55 | | 2.8/ | | 2.89 | | 2,19 | | |
| MEAN | 2.31 | 2.93 | 4.08 | 4.19 | 3.88 | 3.82 | 3.00 | | 3.50 | * | 2,63 | | 2.76 | | 2.1/ | | |

MEAN DAILY GROUND-WATER STAGE (WATERSHED AREAS) (FEST BELOW ORD, SURF.)

| DATE | | | UPPE | R TAYLO | | 2 | | | PARTE | R ROWER | 3.9 13 | | WORLD ST. BERNARDS | | | | | |
|----------------|------|------|------|---------|------|------|-------|---|-------------|---------|------------------|---|--------------------|---|------------|----|---|--|
| APRIL | 1 | 2 | 3 | 14 | 5 | 6 | 7 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 14 | 5 | |
| 1970)3 (IR) | | | | | | | | | AYG. W-2 | | 2) AVG W-3 | | LINE | | LINE B" | | | |
| 1 | 243 | 274 | 4.10 | 3.83 | 3 95 | 3 80 | 238 | | 332 | | 2.58 | | 301 | | 3.31 | | | |
| 2 | 262 | 277 | 4.13 | 3.85 | 396 | 3.86 | 2.5.3 | | 339 | | 2.70 | | 311 | | 336 | | | |
| 3 | 2.77 | 280 | 9.22 | 3.87 | 9 00 | 3.90 | 267 | | 3.46 | | 2.78 | | 320 | | 3.90 | | | |
| 14 | 288 | 2.84 | 9.29 | 3.88 | 4.04 | 393 | 277 | | 352 | | 286 | | 3.26 | | 3.94 | | | |
| 5 | 297 | 2.88 | 9 35 | 391 | 901 | 347 | 2 85 | | 3.57 | | 2.92 | - | 330 | | 3 48 | | | |
| 6 | 301 | 291 | 4 38 | 3.93 | 410 | 901 | 2.92 | | 36/ | | 296 | | 3 34 | | 3.51 | | | |
| 7 | 306 | 2.96 | 438 | 396 | 4.13 | 404 | 298 | | 3.64 | | 3.01 | | 337 | | 3.51 | | | |
| 8 | 312 | 300 | 941 | 398 | 4.12 | 4.04 | 307 | | 368 | | 3.06 | | 3.41 | | 3.54 | | | |
| 9 | 3 15 | 307 | 498 | 401 | 413 | 9.12 | 314 | | 3.72 | | 309 | | 3.43 | ~ | 357 | | | |
| 10 | 320 | 3.07 | 4.53 | <.03 | 4.17 | 4.16 | 3.21 | | 376 | | 314 | | 3.45 | | 3.60 | | | |
| 11 | 3 24 | 312 | 438 | 906 | 4.19 | 9 20 | 327 | | 381 | | 3.18 | | 3 49 | | 3.42 | | | |
| 12 | 329 | 3 16 | 962 | 9 015 | 4.22 | 4 23 | 3.31 | | 3.84 | | 3.22 | | 352 | | 364 | | | |
| 13 | 333 | 3 19 | 967 | 9-11 | 9 24 | 9 27 | 3.36 | | 3 63 | | 3 -2 | | 356 | | 3.66 | | | |
| 14 | 3 37 | 3.23 | 9.66 | 414 | 927 | 430 | 3.43 | | 392 | | 33/ | | 359 | | 3.69 | | | |
| 15 | 345 | 3.29 | 969 | 9-19 | 4 32 | 434 | 350 | | 3.97 | | 3.37 | | 3.63 | | 3.7/ | | | |
| 16 | 3.47 | 3.33 | 978 | 723 | 934 | 4.38 | 355 | | 901 | | 3.90 | | 367 | | 3 74 | | | |
| 17 | 351 | 337 | 983 | 4.26 | 436 | 497 | 361 | | 905 | | 3.94 | | 37/ | | 376 | | | |
| 18 | 354 | 341 | 9.85 | 9 29 | 438 | 9.75 | 3.66 | | 9.08 | | 3.98 | | 3.73 | | 3.78 | | | |
| 19 | 3.57 | 345 | 970 | 9.32 | 4.41 | 9.99 | 3 70 | | 4.12 | | 3.51 | | 3.75 | | 3.79 | | | |
| 20 | 340 | 3 16 | -195 | 4 35 | 442 | 956 | 3.75 | | 9.15 | | 354 | | 3 77 | | 3.81 | | | |
| 21 | 3 63 | 351 | 499 | 4.38 | 4 44 | 4.56 | 3.80 | | 4.18 | | 9.57 | | 380 | | 3,83 | | | |
| 22 | 367 | 354 | 500 | 443 | 448 | 9.61 | 3.86 | | 9.22 | | 360 | | 334 | | 3.84 | | | |
| 23 | 368 | 357 | 5 06 | 9.96 | 9.51 | 965 | 3.91 | | 726 | | 362 | | 3 88 | | 3.89 | | | |
| 24 | 371 | 3.60 | 5 11 | 4.49 | 453 | 468 | 395 | | 429 | | 3.66 | | 3.90 | | 3,90 | | | |
| 25 | = 72 | 3 63 | 5 13 | 451 | 4.54 | 472 | 398 | | 4 32 | | 3.68 | | 392 | | 3.89 | | | |
| 27 | 354 | 3.65 | 5.10 | 9 93 | 9.37 | 9 73 | 387 | | 424 | | 3.66 | | 3.94 | | 3 62 | | | |
| 28 | 353 | 3 67 | 5.07 | 4 38 | 4.35 | 9 76 | 39/ | | 4 24 | | 3.60 | | 3.95 | | 3.68 | | | |
| 29 | 3 66 | 369 | 5.12 | 440 | 4.40 | 4 77 | 9 00 | | 429 | | 366 | | 397 | | 3.75 | | | |
| 30 | 3 70 | 3.74 | 5.19 | 1 0 | 447 | 1.32 | 4 a5 | | 4.35 | | 3.72 | | 9.00 | | 3,33 | | | |
| 31 | 3.74 | 3.74 | 5 23 | 9 49 | 453 | 485 | 908 | | 4 38 | | 3,75 | | 4.03 | | 393 | | | |
| MEAN | 534 | 328 | 473 | 919 | 128 | 435 | 3.44 | | 394 | | 331 | | 362 | | 3.67 | | | |
| | 1004 | 2.40 | 7.70 | 7 1 / | 1-0 | 7 22 | 744 | | V.17 | | 201 | | 006 | | 2.6/ | | | |

| DATE | | | TTPPET | R TAYLO | R CREEK | ζ | | | INDIA | | -PARMS | | | MONR | EVE RAN | EH | |
|--------|--------|------|--------|---------|---------|------|-----------|---|--------------|---|------------|---|-------|------|------------|----|---|
| MAY | 1 | 2 | 3 | lı | 5 | 6 | 7 | 1 | 2 | 3 | 14 | 5 | 1 | 2 | 3 | 4 | 5 |
| (YR) | | | | | | | | | AYG | | 2 AVG | | Line | | Line B" | | |
| 1 | 370 | 3 78 | 521 | 450 | 457 | - 37 | 398 | | 4.87 | | W-3 372 | | 3.99 | | 3 85 | | |
| 2 | 311 | 3 79 | 520 | 442 | 1.8 | 4 43 | 3.82 | | 931 | _ | 3 - | | :8: | | 3.77 | | |
| 3 | 3 | 3 68 | 5 63 | 4 33 | 4 35 | 43 | 352 | | 414 | | 3.46 | | 3.57 | | 3.26 | | |
| 4 | 254 | 3 34 | 435 | 392 | 368 | 4.59 | 300 | | 370 | | 3.10 | | 3 8 | | 2.93 | | |
| 6 | 301 | 3 28 | 9 13 | 370 | 3.62 | 190 | 303 | | 363 | | 3/4 | | 3 2 3 | | 307 | | |
| 7 | 3.12 | 3 29 | 453 | 370 | 3.76 | 441 | 3.23 | | 3 72 | | 3.20 | | 331 | | 3.27 | | |
| 8 | 3.14 | 3 30 | 461 | 3 75 | 386 | 445 | 3.34 | | 3 75 | | 3.26 | | 3.40 | | 334 | | |
| 9 | 3.30 | 3 32 | 4 64 | 3.97 | 395 | 450 | 3.45 | | 3.85 | | 3.37 | | 3.49 | | 3 43 | | |
| 10 | 3 39 | 3.34 | 9.75 | 3 87 | 9 (N) | 457 | 3.55 | | 3.53 | | 334 | | 3.56 | | 351 | | |
| 11 | 3 75 | 337 | 4 82 | 393 | 4 14 | 4 65 | 3.64 | | 100 | - | 3 9 1 | | 3.65 | | 3.58 | | |
| 12 | 351 | 340 | 486 | 901 | 4.21 | 473 | 3 73 | | 3.92 | | 3 4 - | | 3.71 | | 3.64 | | |
| 13 | 3 5.3 | 394 | 493 | 409 | 9 25 | 9 82 | 3.8/ | | 9/12 | | 3.48 | | 3.59 | | 3.25 | | |
| 1/4 | 356 | 3.94 | 499 | 4.14 | 928 | 489 | 3.88 | | 4 17 | | 350 | | 3.59 | | 3 7 ? | | |
| 15 | 361 | 3.44 | 503 | 4 20 | 932 | 992 | 3.95 | | 121 | | 352 | | 3.67 | | 3 79 | | |
| 1.5 | 3.66 | 3 95 | 5.11 | 4 26 | 4.37 | 995 | 4.01 | | 4 21 | | 355 | | 3 75 | | 3.84 | | |
| 1.7 | 370 | 3.97 | 5.18 | 9.37 | 447 | 498 | 406 | | 4 30 | | 3 58 | | 3.82 | | 391 | | |
| 18 | 3 75 | 3.49 | 5.25 | 9.38 | 496 | 5.01 | 9.12 | | 4.35 | | 3.62 | | 3.85 | | 3.95 | | |
| 19 | 3 78 | 352 | 5 26 | 943 | 451 | 504 | 4.17 | | 1 38 | | 365 | | 3.95 | | 3.99 | | |
| 20 | 3.82 | 354 | 527 | 9.52 | 4.5K | 5.05 | -723 | | 9.93 | | 3.48 | | 902 | | 904 | | |
| 21 | 385 | 3.56 | 5 3.5 | 9 55 | 460 | 508 | 725 | | 496 | | 3.70 | | 905 | | 405 | | |
| 22 | 387 | 3.59 | 5.40 | 9.57 | 961 | 5.10 | 4-28 | | 4.49 | | 3.73 | | 4.07 | | 906 | | |
| 23 | 390 | 3.62 | 5.43 | 460 | 464 | 5.12 | 416 | | 4.49 | | 3.76 | | 408 | | 907 | | |
| 24 | 391 | 3 65 | 5 92 | 4 60 | 4.54 | 5.14 | 3.3/ | | 9.36 | | 3.78 | | 399 | | 393 | | |
| 25 | 391 | 3.58 | 5.39 | 4.47 | 446 | 5.15 | 3.18 | | 4.30 | | 3.74 | | 3 75 | | 381 | | |
| 27 | 3 96 | 297 | 5 34 | 3.40 | 3 78 | 5 13 | 3.15 | | 399 | | 3.44 | | 285 | | 3.44 | | |
| 28 | 375 | 290 | 5.24 | 341 | | 5 17 | <u> </u> | | 3.94 3.92 | | 335 | | 2 27 | | 3.34 | | |
| 29 | A 2.00 | | | 0 // | 4.10 | 5.17 | | | | | 3.32 | | 2.77 | | 3.29 | | |
| 30 | 3.37 | 250 | 531 | 3 92 | 380 | 5.18 | 3 34 | | 3.89 | | 3.14 | | 276 | | 3.3/ | | |
| 31 | 2 88 | 290 | 538 | 3.36 | 3 83 | 5.19 | 343 | | 3 85 | | 2.89 | | 275 | | 3 34 | _ | |
| MEAN | 352 | 337 | 5 06 | 4.04 | 918 | 489 | 363 | | 9.10 | | 3.45 | | 3.52 | | 3 55 | | |
| THEATH | 234 | 201 | U 0 ja | 7.07 | 7 16 | 707 | J. (D. J. | | 7.763 | | -2.YU | | 17.17 | | 200 | | |

MEAN DAILY GROUND-WATER STAGE (WATERSHED AREAS) (FERT BELOW GRD. SURF.)

| DATE | | | | TATLO | | | | | DIDIA | N PLEVIER | | | MONREY R RANCIL | | | | | |
|-------|------|-------|-------|-------|-------|------|---------------------|---|-------|-----------|------|---|-----------------|---|-------|---|---|--|
| AUG | 1 | 2 | 3 | la la | 5 | 6 | 7 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 1 | 3 | |
| (45)3 | | | | | | | | | AVG | | AYG | | LIKE | | LINE | | | |
| (IR) | | | | | | | | | (7) | | 3 | | "A" | | 118 4 | | | |
| (2) | | | | | | | | | W-2 | | W-3 | | 4 | | . 0 | | | |
| 1 | 222 | 2 31 | 481 | 361 | 375 | 530 | 479 | | 397 | | 2.26 | | 3/3 | | 360 | | | |
| 2 | 2 2R | 2.41 | 987 | | 3.82 | 5.32 | र्व छक | | 3.88 | | 2.34 | | 3/8 | | 334 | | | |
| 3 | 241 | 249 | 993 | 3.48 | 3.86 | 5.33 | 9 89 | | 394 | | 245 | | 322 | | 301 | | | |
| 4 | 250 | 257 | 997 | 372 | 392 | 5.35 | 4.55 | | 400 | | 254 | | 3 27 | | 316 | | - | |
| 5 | 259 | 2.65 | 798 | 3.76 | 3.97 | 5 37 | 4 98 | | 4.04 | | 262 | - | 3.30 | | 3.32 | _ | | |
| 6 | 270 | 2 72 | 5.06 | 3 80 | 901 | 5 39 | 4.98 | | 4.09 | | 2.71 | | 3.32 | | 3 44 | | | |
| 7 | 276 | 282 | 5.10 | 3.88 | 907 | 5 90 | -998 | | 915 | | 2 79 | | 3 37 | | 358 | | | |
| 8 | 2.85 | 288 | 516 | 3.92 | 4.12 | 5 76 | 5.00 | | 9 20 | | 2.86 | | 3.41 | | 3.48 | | | |
| 9 | 290 | 295 | 5 23 | 395 | 9 10 | 5.98 | 5.00 | | 4 22 | | 292 | | 3.45 | | 3.74 | | | |
| 10 | 297 | 3 00 | 5 28 | 9.00 | 9-16 | 500 | 5.01 | | 927 | | 298 | | 3.50 | | 3 79 | | | |
| 11 | 305 | 3 05 | 5 30 | 906 | 9.17 | 5.52 | 5 02 | | 9.31 | | 305 | | 3.54 | | 3.82 | | | |
| 12 | 310 | 310 | 3.28 | 9.05 | 9.19 | 5.50 | 5.05 | | 933 | | 310 | | 3-57 | | 3.84 | | | |
| 1/1 | 3 15 | | 5.27 | 9.12 | 3.76 | 5 36 | 507 | | 9.30 | | 315 | | 3.60 | | 3 87 | | | |
| 13 | 3.21 | 3.2/ | 527 | 918 | 366 | 5 59 | 5 05 | | 4 3/ | | 32/ | | 3 65 | | 3 89 | | | |
| 16 | 3.25 | 3,25 | 5 29 | 921 | 3.72 | 561 | 982 | | 431 | | 325 | | 3.63 | | 3 75 | | | |
| 17 | 3.30 | 3.28 | 5 32 | 924 | 3.8/ | | 470 | | 4 | | 329 | | 3.68 | | 316 | | | |
| 18 | 3.97 | 3.36 | 5 37 | 4 30 | 399 | 5.66 | 4 6R | | 1.36 | _ | 234 | | 3 72 | | 3.27 | | | |
| 19 | 3.77 | 3,50 | 5 33 | 4 3.3 | 377 | 5 67 | 1:1402 | | 939 | | 3 38 | | 3.77 | | 3.32 | | | |
| 20 | 7.73 | 3 4 3 | 5 38 | 4.00 | 3 65 | 5.68 | 4 4 4 4 4 4 4 4 4 4 | | 4.37 | | 342 | | 3.76 | | 3.39 | | | |
| 21 | 2.98 | 7.42 | 5.42 | 158 | 764 | 5.67 | 398 | | 108 | | 320 | | 3.13 | | 330 | | | |
| 22 | 2.94 | 341 | 5 41 | 3 5 3 | 362 | 565 | 373 | | 404 | | 3.18 | | 3 32 | | 2.85 | - | | |
| 23 | 2 77 | 340 | 5 37 | | 360 | 5.58 | 356 | | 396 | | 309 | | 326 | | 2 10 | | | |
| 24 | 2.79 | 3.37 | 533 | | 3 28 | 5 30 | 298 | | 378 | | 308 | | 3 25 | | 1 14 | - | | |
| 25 | 2.93 | 3 35 | 5.35 | | 325 | 490 | 298 | | 377 | | 3.14 | | 3.25 | | 147 | - | | |
| 20 | 3.57 | 3 3 3 | 5 35 | | 336 | 9.77 | 3 08 | | 3 75 | | 120 | | 3.25 | | 1.82 | | | |
| 27 | 3.2/ | 3 32 | 543 | | 348 | 7.57 | 3 18 | | 384 | | 3 26 | | 3.26 | | 2.10 | | | |
| 28 | 3.36 | 3 37 | 5 48 | 3.70 | 3 5 7 | 9 65 | 330 | | 391 | | 334 | | 3.28 | | 2 33 | | | |
| 29 | 3.43 | 3.34 | 5.54 | | 370 | 7.67 | 343 | | 398 | | 3 36 | | 3.5.3 | | 2 98 | - | | |
| 30 | 3,49 | 3.34 | 5 5 6 | | | 9.70 | 352 | | 404 | | 342 | | 3.42 | | 261 | | | |
| 31 | 3.54 | | 5.61 | | 350 | 4.74 | 367 | | 4.10 | | 396 | | 3.70 | | 2 75 | | | |
| MEAN | 301 | 311 | 527 | 386 | 379 | 5.33 | 4 35 | | 4,10 | | 3.06 | | 3 43 | | 30% | | | |

| DATE | | | UPPER | TAYLO | R CREEK | | | | INDIA | N RIVER | FARMS | | MONREVE RANCH | | | | | | |
|---------|-------|-------|-------|-------|---------|------|------|-----|------------|----------|--------------|---|---------------|---|------|----|---|--|--|
| SEPT | 1 | 2 | 3 | ь | 5 | 6 | 7 | 1 | 2 | 3 | 14 | 5 | 1 | 2 | 3 | lı | 5 | | |
| (MO) | | | | | | | | 100 | AVG W-2 | | A 1 3 W-3 | | 19A11 | | Line | | | | |
| 1 | 3.58 | 3.39 | 564 | 901 | 199 | 979 | 369 | | 4.15 | | 3 18 | | 377 | | 270 | | | | |
| 2 | 3.62 | 3.43 | | 906 | 4.05 | 983 | 3 70 | | 4.14 | | 3.52 | | 38/ | | 2 55 | | | | |
| 3 | 3.66 | 3.45 | 565 | 911 | 4.09 | 986 | 373 | | 4 22 | | 3.56 | | 3.82 | | 2.66 | | | | |
| 4 | 3.68 | 347 | | 9.18 | 4.12 | 982 | 376 | | 4.23 | | 3.58 | | 376 | | 2 70 | | | | |
| 5 | 3.71 | 349 | 551 | 9 22 | | 973 | 3 8/ | | 4.23 | | 360 | | 3.78 | | 266 | | | | |
| 6 | 3.65 | 351 | 5 45 | 901 | 4.18 | 4 65 | 332 | | 4.11 | | 3.58 | | 383 | | 247 | | | | |
| 7 | 3,39 | | 6.26 | | 9.21 | 957 | 327 | | 400 | | 346 | | 3.60 | | 267 | | | | |
| 8 | 3.40 | | 509 | 367 | 4 23 | 952 | 319 | | 194 | | . 9 | | 318 | | 2.82 | | | | |
| 9 | 3.49 | 3.49 | 508 | 369 | 1 28 | 994 | 3.00 | | 371 | | 349 | | 3.18 | | 2.91 | | | | |
| 10 | 3.60 | 349 | 5.10 | 3 75 | 4.31 | 947 | 307 | | 397 | | 2 55 | | 3.29 | | 3 00 | | | | |
| 17 | 3.70 | 348 | 518 | 376 | 9.35 | 997 | 314 | | 901 | | 3 | | 3 90 | | 247 | | | | |
| 12 | 3.73 | 3 48 | 529 | 384 | 440 | 995 | 302 | | 9.02 | | 3 60 | | 35, | | 1.13 | | | | |
| 13 | 3.77 | 3 49 | 5 27 | 3 1 / | 991 | 448 | | | 9 05 | | 3 63 | | 3 5 7 | | 105 | | | | |
| 1/4 | 3.57 | 3.51 | 5.31 | 388 | 992 | 952 | 287 | | 9.01 | | 3.54 | | 3.23 | _ | 2.76 | | | | |
| 15 | 3.20 | 270 | 5.03 | 3 5 3 | 443 | 954 | 276 | | 3 74 | | 295 | | 2.64 | | 092 | | | | |
| 1.5 | 3,20 | 268 | 9.87 | | 9.94 | 958 | | | 3.71 | | 2.94 | | 268 | | 1.17 | | | | |
| 17 | 3.20 | 2.65 | 983 | 398 | 9 96 | 962 | 276 | | 2 72 | | 294 | | 2.76 | | : 57 | | | | |
| 18 | 3.20 | | 980 | 349 | 447 | 7 66 | 272 | _ | 3 72 | _ | 295 | | 2 79 | | | | | | |
| 19 | | 2.63 | 973 | 395 | 997 | 970 | 2.35 | _ | 363 | | 286 | | 259 | - | 1.71 | | | | |
| 20 | 7.9/ | 2 13 | 458 | 296 | 9 35 | 4.2H | 170 | - | 3.18 | | 2.42 | | 2.41 | - | 1.43 | - | _ | | |
| 22 | 2.72 | 210 | 427 | 298 | 4 10 | 9 12 | 131 | | 3.10 | \vdash | 732 | | 2.47 | | 1.33 | | | | |
| 23 | 253 | 162 | 412 | 290 | 383 | 397 | 117 | | | | 1.80 | | 175 | | 137 | | | | |
| 23 | 1.98 | | | | | | | | 280 | | 092 | | | - | 1.28 | | _ | | |
| 25 | 1.04 | 0.81 | 900 | 2 29 | 299 | 3.40 | 075 | - | 2.18 | | | | 1.02 | | 1.19 | | _ | | |
| 25 | 0 37 | 041 | 334 | 156 | 269 | 266 | 0.45 | | 1.62 | - | 036 | | 0.65 | - | 1-17 | | | | |
| 27 | 0 54 | 0 45 | | 1.69 | 270 | 273 | 0.40 | | 175 | | 0 50 | | 105 | - | 1 | | | | |
| 28 | 0.87 | 051 | 334 | | 296 | 2.86 | 0.88 | | 191 | | 0.69 | | 125 | | 1 | | | | |
| 29 | 112 | | 3 43 | 207 | 309 | 3 00 | 1 | - | 2.05 | | 086 | | 1.45 | - | 1- | | _ | | |
| 30 | | 0 61 | | | 3 37 | 3/4 | | | 227 | | 1,07 | | 1.45 | | 1 | - | _ | | |
| 31 | 1.37 | 0 /3 | 3.36 | 427 | 2.4 | 3.77 | 1.20 | | 12/ | | 1,07 | | - 4.1 | | | | | | |
| MEAN | 274 | 248 | 469 | 326 | 395 | 4.17 | 237 | | 3 38 | | 2.61 | | 2.67 | | 1.76 | | | | |
| THEREIN | E 1.4 | 14 40 | 10/ | 2 2 6 | 212 | 11,1 | - 3/ | | 1000 | _ | 10.7 | | 15 6 /. | | 170 | | | | |

