### **Technical Memorandum**

### FREQUENCY ANALYSIS OF ONE AND THREE-DAY RAINFALL MAXIMA FOR CENTRAL AND SOUTHERN FLORIDA

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October 1990

Water Resources Division Department of Research and Evaluation South Florida Water Management District

This publication was produced at an annual cost of \$93.74 or \$.19 per copy to inform the public. 500 1090 Produced on recycled paper.

### TABLE OF CONTENTS

# Page

Acknowledgments	iii
Introduction	1
Data Sources	ī
Data Preparation	2
Frequency Analyses	4
Results	4
Summary	17
References	18
Appendix	19
••	

### LIST OF FIGURES

$\frac{1}{2}$	Rainfall Gage Location	2
ž	Distribution of Maximum One-Day Rainfall Event	5
	Distribution of Maximum Three-Day Rainfall Events	6
4	1-Day Isohyetal Map: 3-Year Return Period	8
5	1-Day Isohyetal Map: 5-Year Return Period	9
6	1-Day Isohyetal Map: 10-Year Return Period	10
7	1-Day Isohyetal Map: 25-Year Return Period	11
8	1-Day Isohyetal Map: 100-Year Return Period	12
9	3-Day Isohyetal Map: 10-Year Return Period	13
10	3-Day Isohyetal Map: 25-Year Return Period	14
11	3-Day Isohyetal Map: 100-Year Return Period	15

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### ACKNOWLEDGMENTS

The expertise provided by Shawn Sculley in the statistical analysis was invaluable for the completion of this project. Medardo Molina provided a thorough review of the technical aspects of this investigation. Tom MacVicar supplied valuable suggestions for analyzing and presenting the final results. Barbara Brown should be recognized for her tremendous effort in the actual retrieval and analysis of the enormous amount of daily rainfall record that was processed, as well as Terrie McRorie for her excellent work digitizing the isohyetal map. Nettie Winograd is credited for her fine job typing and editing this report. Finally, special thanks to those that reviewed this analysis. (This page left intentionally blank)

#### I. INTRODUCTION

The South Florida Water Management District (District) is committed to maintaining the most accurate and up-to-date rainfall frequency data for use in evaluating permit applications submitted to the District. The Frequency Analysis of Rainfall Maximums for Central and Southern Florida, Technical Publication 81-3 (MacVicar, 1981) presents the results of a comprehensive frequency analysis of maximum rainfall events of 1-, 2-, 3- and 5-day duration along with seasonal and annual durations. The 1- and 3-day duration maximum rainfall events are the most commonly considered by the District's Regulation Department in the permit review process described in the Management And Storage of Surface Waters, Permit Information Manual, Volume IV (1989). The purpose of this report is to update the 1and 3-day duration frequency analysis included in the Permit Information Manual with the additional data that has become available in recent years. This data allows for additional gages to be added to the analysis while also increasing the reliability of long-term existing gages that were used in the earlier study. Refined and more stringent criteria have been developed to determine whether a particular station year should be used. Only station years that have a 90 percent probability of including the annual maximum event in the observed values were included. Even with these stricter criteria, the number of stations used in the analysis increased from 140 in the earlier analysis to 156 in this analysis. The number of station-years increased from 4,606 to 5,587, or by 21 percent.

The density of rain gages increased the greatest in the Kissimmee River Valley where only sparse data was available for the earlier study. A few gages were eliminated due to more strigent criteria used in selecting the station-years to be analyzed.

#### **II. DATA SOURCES**

The sources of data for this study include all the rainfall gages within or near the District for which at least 20 years of quality daily record is available. The data was obtained from the same sources used in the 1981 analysis. These include data that were obtained from the Weather Bureau Records, the South Florida Water Management District, the Lake Worth Drainage District, and the Corps of Engineers. The data that became available in recent years facilitates the production of rainfall frequency maps for South Florida using a higher quality and denser network of rain gages than those used in the earlier study. Figure 1 illustrates the areal distribution of these rain gages along with an indication of the number of years of reliable record at a particular station. More specific information about the rainfall gages will be found in the appendix.

The majority of the rainfall values represent gage readings taken once a day. The time of day that readings are taken varies between stations. In certain cases, hourly values are summed over 24-hour periods to obtain the daily values. No attempt was made to adjust all the daily data to the same 24-hour period, or to estimate maximum 24-hour rainfall from observational daily measurements. No adjustments for bias due to gage type or exposure were made. This analysis was based completely on the daily observations, as was the original analysis completed by the District in 1981.

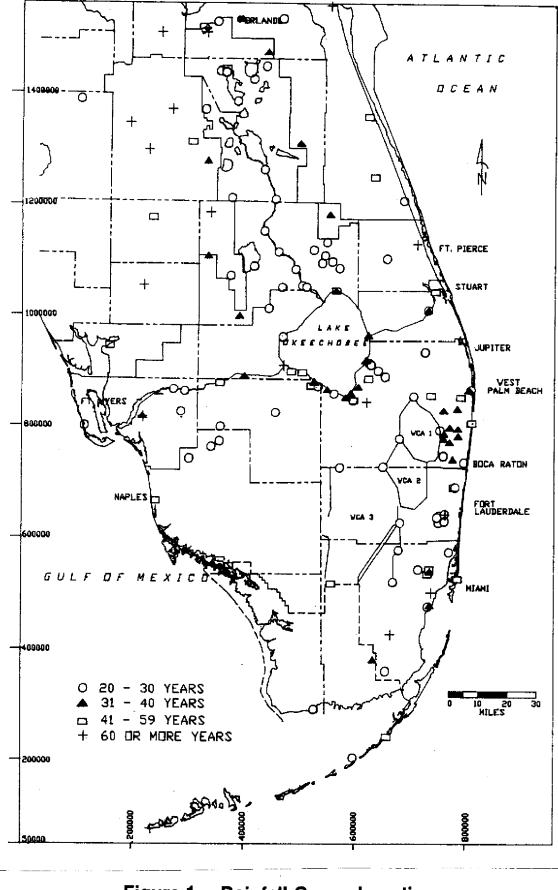


Figure 1. Rainfall Gauge Location

### **III. DATA PREPARATION**

Each year of data is assumed to represent an independent event at that location. A filler technique similar to that used in the previous analysis was used to estimate rainfall at stations that contained missing record. This linear interpolation scheme uses the ratio of the average annual precipitation at nearby stations to that at the station with missing record to determine a weighting factor between the rainfall at the nearby stations and the one with missing data. Then the missing rainfall value may be estimated by the relationship

$$P_x = \frac{1}{N} \sum_{i=1}^{N} \frac{M_x}{M_i} * P_i$$

where

- $P_x$  is the estimated daily precipitation at the station with missing record,
- $M_x$  is the average annual precipitation at the station with missing record,
- $M_i$  is the average annual precipitation at ith nearby station,
- N is the number of nearby stations used for estimate,
- $P_i$  is daily precipitation at the ith nearby station.

This method is known as the normal ratio method (Paulhus and Kohler, 1952).

Certain stations have accumulated rainfall totals during weekends and holidays. These stations may otherwise have reliable daily records. It is desirable to include these records in the analysis. An accumulated rainfall total was distributed over the individual days during which the rainfall was accumulated based on the temporal distribution of rainfall at the nearby stations that had daily record available. The relationship used to estimate the daily rainfall was the same as for the missing rainfall with the exception that the annual mean rainfall values  $M_x$  and  $M_i$ are replaced by the accumulated values  $A_x$  and  $A_i$ . Again, the subscript x refers to the rainfall station that the value is being estimated and the subscript *i* refers to the ith of *n* stations used to estimate the daily values. These estimated daily rainfall values were treated the same as observed values if the length of the accumulated period was less than or equal to five days. When the period of accumulated rainfall values was longer than five days, the daily estimates will not be as reliable as those estimated from rainfall totals accumulated over short periods and are flagged as estimated values.

In the previous District rainfall analysis, station-years with up to 150 days of estimated data were included. In this analysis, only station years that have at least a 90 percent probability of including the annual maximum event in the observed values were included. In determining these probabilities, consideration was not only given to the number of missing or estimated days, but also to what month of the year the missing value occurred. The probability that a given daily maximum rainfall event is included in the observed data of a particular year may be represented by the following equation

$$pdmi = [1 - [\sum_{m=1}^{12} \frac{nmd_m}{nd_m} * Pr_m]]*100$$

where

re	
pdmi	is the probability, expressed as a percentage, of the daily maximum event
	being included for a given station year,
nmd	is the number of missing days in month m,
nd	is the number of days in month m,
Pr	is the probability for the maximum event to occur during month m.

Long term rainfall stations representing different regions of the District were examined to determine the likelihood of a maximum rainfall event occurring during a particular month of a year. The frequency distributions for the annual maximum 1and 3-day duration events appear in Figure 2 and Figure 3 for the Keys, Lower East Coast (LEC), Lower West Coast (LWC), Everglades Agricultural Area (EAA), and Kissimmee Valley. The distributions vary significantly from one region of the District to another. The months of June and September generally have the highest probability for the annual maximum 1- and 3-day duration events to occur while the period of December through March has a minimal probability for occurrence of these same events.

#### **IV. FREQUENCY ANALYSIS**

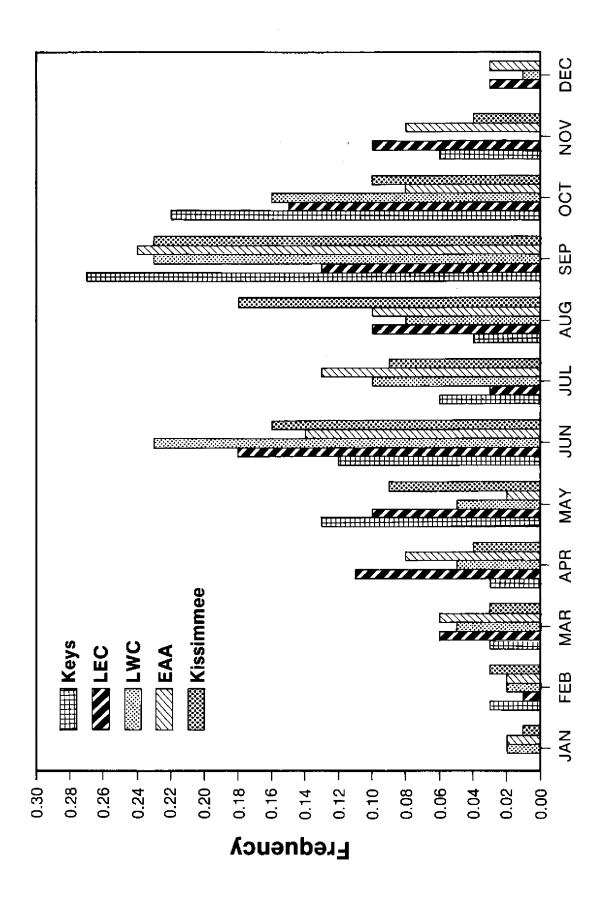
The two-parameter Gumbel distribution was chosen as the probability function for analyzing the series of maximum annual rainfall events. This distribution is essentially log-normal distribution with constant skewness (Chow, Ven T., 1954) and also known as Fisher Tippet Type I distribution. It was chosen because it is widely accepted by practicing professionals, the results are easily compared with other similar analysis including the earlier District analysis and that its use has already been established as a design standard. Its cumulative distribution function, defined as the probability that any outcome in X will be less than or equal to a stated limiting value x, may be expressed as

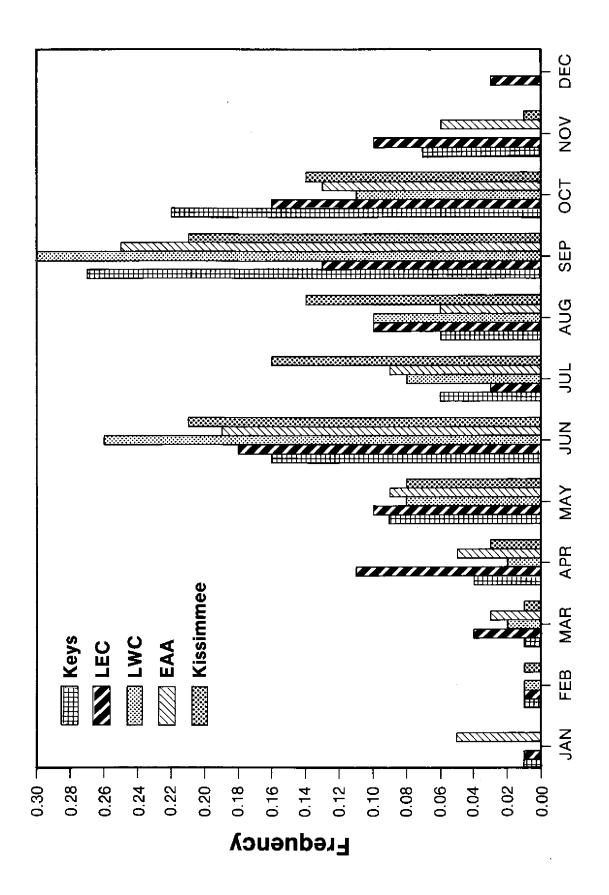
$$P(X \le x) = \exp\left\{-\exp\left[-a(x-u)\right]\right\}$$

where a and u are a function of the mean and standard deviation.

#### V. RESULTS

The rainfall depths for the 3-, 5-, 10-, 25- and 100-year return periods for the 1day and 10-, 25-, and 100-year return periods for the 3-day duration maximum events were computed for each rain gage included in this analysis. The validity of using the Gumbel distribution for this task was tested using the Kolmogorov-Smirnov goodness-of-fit test. In this test, the maximum difference between the stepwise cumulative frequency function derived from the data set and that of the theoretical distribution function determined by the Gumbel method over the range of observed values, is used as a measure of the discrepancy between the theoretical distribution and the observed data.







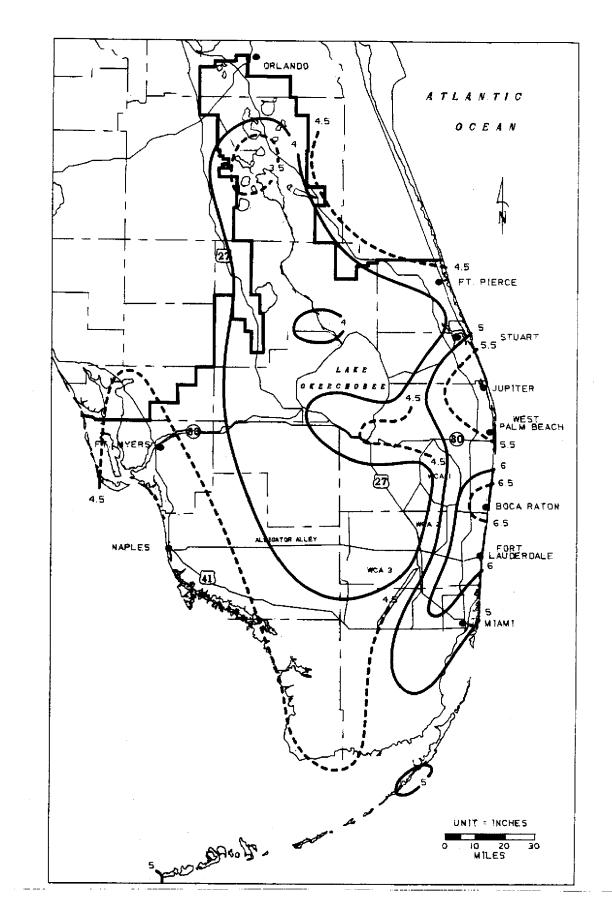
For a specified sample size and the computed maximum difference, a level of significance ( $\propto$ ) of the goodness-of-fit can be estimated. For a significance level  $\propto$ , there is a 100 \* (1- $\alpha$ )% chance that the population does not follow a specific distribution. In this analysis, 50 percent of the rainfall stations had a significance level of 0.69 or greater for the 1-day maximum events. For the 3-day events, 50 percent of the stations had a significance level of about 0.78. This indicates that over 50 percent of the stations had less than or equal to a 31 percent chance of not following Gumbel distribution for 1-day events, and less than or equal to a 22 percent chance of not following the 3-day events. The test for the 1-day and 3-day events for goodness of fit are independent of each other.

Once rainfall depths were computed, isohyetal maps were produced which illustrate the areal variation in rainfall depths associated with specific return periods and durations. Isohyetals, or lines of equal depths of rainfall, were manually drawn. Large variations in rainfall may occur between stations due to the complex interactions of large scale storm systems with mesoscale systems (1-100 kilometers) such as sea and lake breeze circulations. Rainfall intensities from large scale storm events are often enhanced (or diminished) at locations that normally favor (or resist) the formation of storms due to the mesoscale factors. Examples of regions of enhancement are along the Lower East Coast due to the sea breeze circulations, and to the south of Lake Okeechobee due to lake breeze effects. According to the results of numerical experiments (Pielke, 1974), maximum rainfall amounts, due to the sea breeze circulations interacting with the prevailing summertime southeasterly winds, normally would occur several miles inland along the Lower East Coast. These same results indicate the maximum rainfall events on the Lower West Coast would be much closer to the coastline. Examples of regions that would expect lesser maximums would be over and immediately downwind of water bodies where the air is more stable and more generally in the interior regions of South Florida. In summary, the results of this analysis indicate that regions of largest 1- and 3-day duration maximum events occur in many of the same regions that would be greatly enhanced by mesoscale circulations, and illustrate the importance that these circulations have on depicting the location and intensity of maximum storm events.

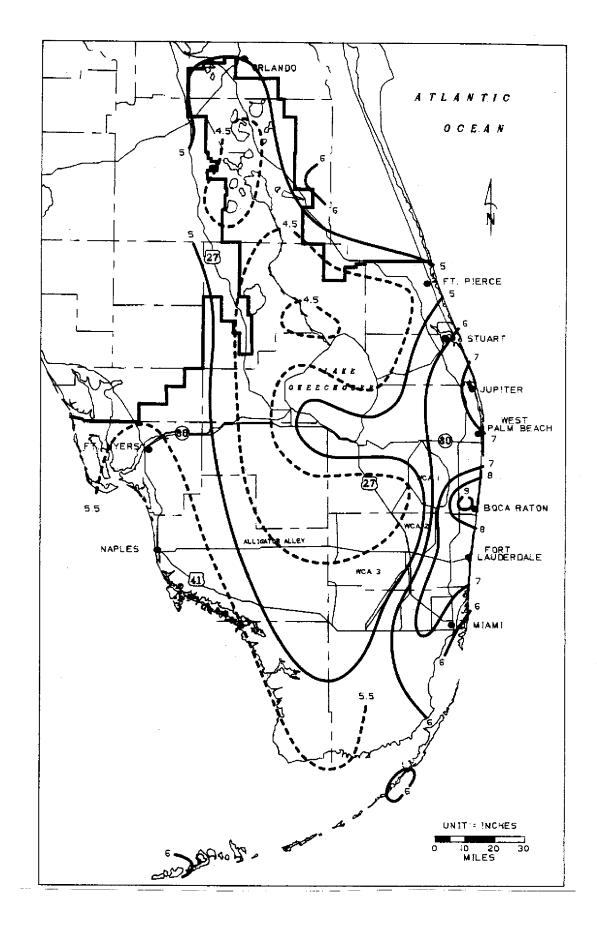
Other factors affecting the computed values at each rain gauge include the number and period of the years that quality record was available at the gauge, the type of rain gauge being used, the exposure of the rain gauge, and how well the Gumbel distribution fits the data at a particular gauge. It is difficult to account for all the variations that occur between stations. When station values differ significantly from those of nearby stations, the data of this station was checked to verify the cause of the disparity, and to decide whether this gauge indeed included reliable data. In regions that data was sufficient, only stations with greater than 30 years of record were considered.

Figures 4-8 include the 1-day rainfall totals for the 3-, 5-, 10-, 25-, and 100- year return period events, while figures 9-11 include the 3-day rainfall totals for the 10-, 25-, 100-year return period.

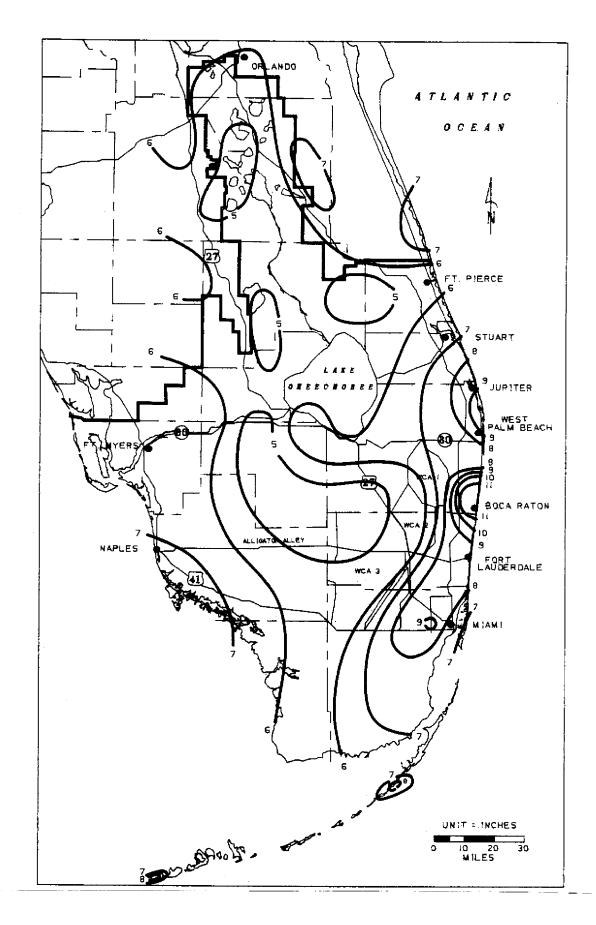
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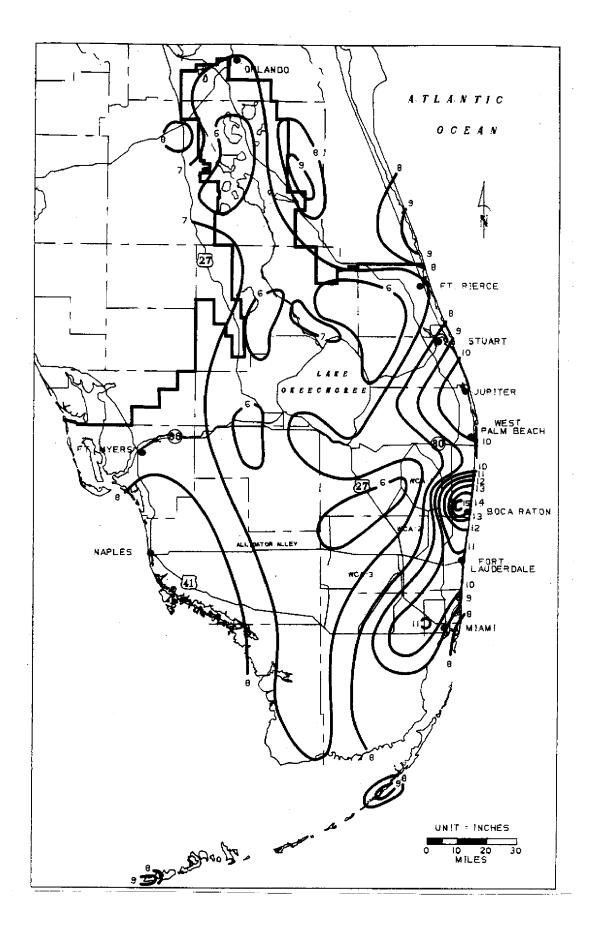
# Figure 4. 1-Day Rainfall: 3 Year Return Period



# Figure 5. 1-Day Rainfall: 5 Year Return Period



# Figure 6. 1-Day Rainfall: 10 Year Return Period



# Figure 7. 1-Day Rainfall: 25 Year Return Period

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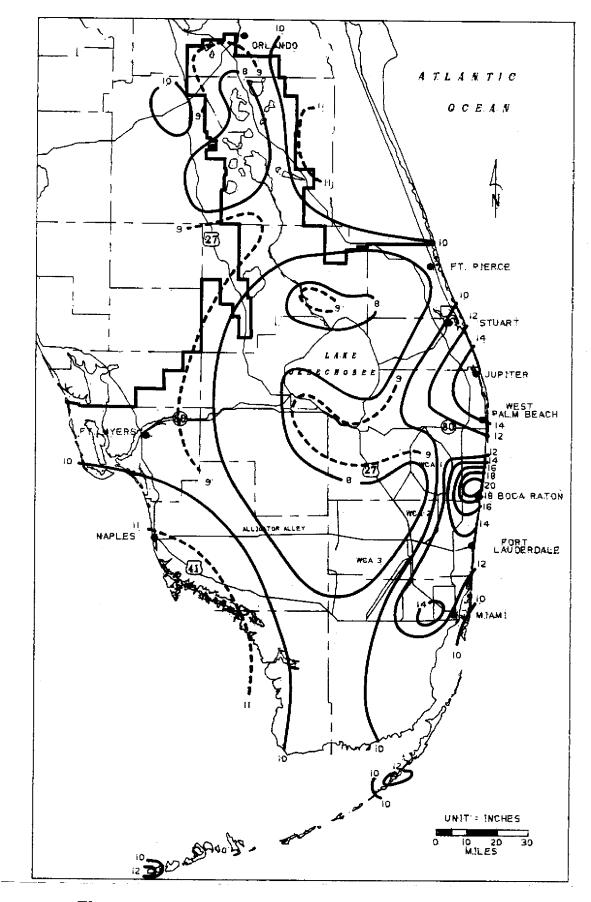
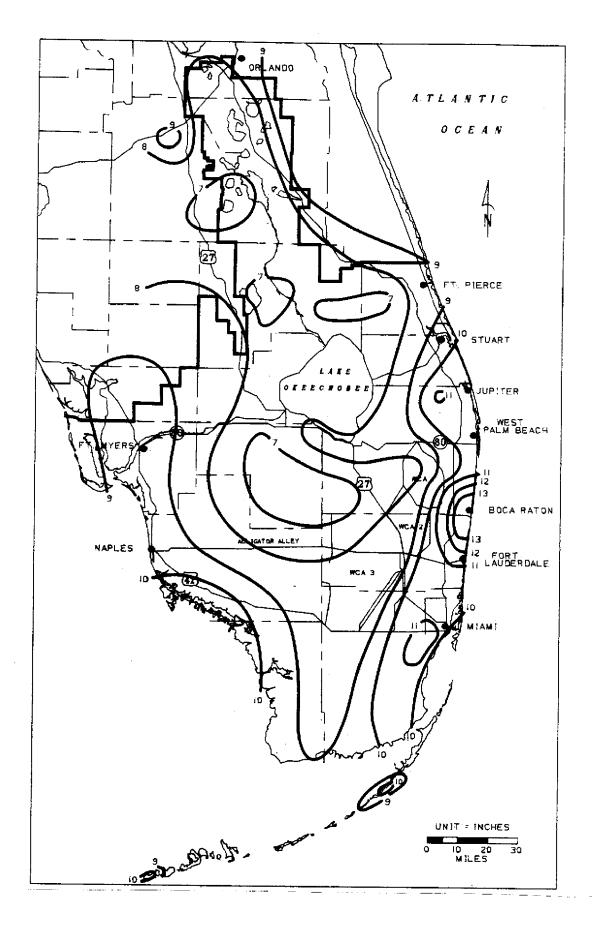


Figure 8. 1-Day Rainfall: 100 Year Return Period



# Figure 9. 3-Day Rainfall: 10 Year Return Period

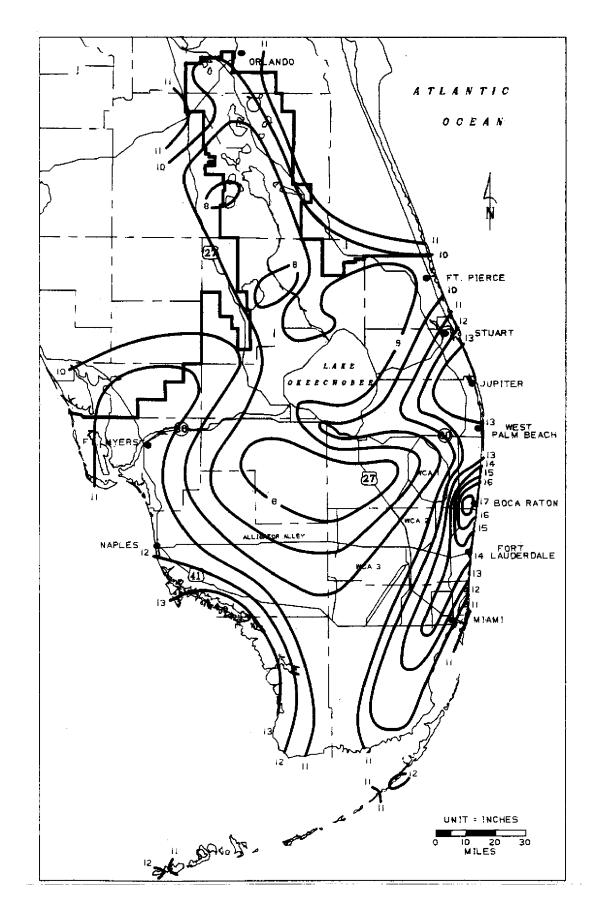
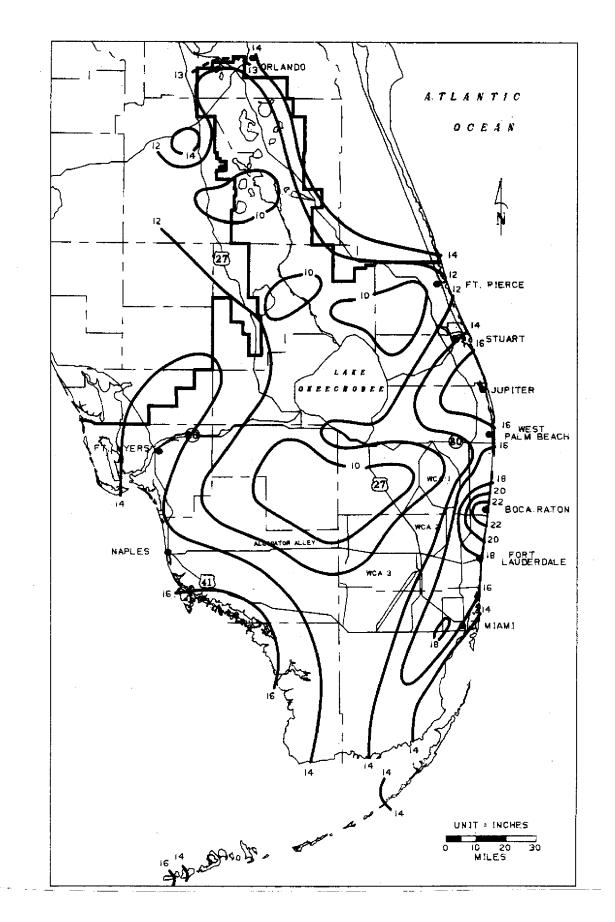


Figure 10. 3-Day Rainfall: 25 Year Return Period



# Figure 11. 3-Day Rainfall: 100 Year Return Period

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#### VI. SUMMARY

The inclusion of additional rainfall gauges, and the greater number of years of record available, allowed greater reliability and detail to be included in the isohyetal maps than earlier District analysis. The general pattern of larger maximum rainfall events along the coastal regions, particularly the Lower East Coast, still exist with only minor changes in the computed extreme events.

Additional gauges with 20 years record in the interior regions, especially in the lower Kissimmee Valley region, allowed for additional detail to be added to these maps in this region. The last 20 years have tended to be drier in the interior sections of south and central Florida which also lowered the maximum expected values of the computed extreme events in this region.

The precipitation regime over Lake Okeechobee and the surrounding ocean is completely different than that over the land mass of Florida. These maps were generated based on measurements taken over land mass and should not be used to estimate rainfall over Lake Okeechobee or nearby marine areas.

#### REFERENCES

Chow, Ven T. 1954. The Log-Probability and its Engineering Applications, Proc. ASCE, 80, Paper No.536, November 1954

MacVicar, Thomas K. 1981. Frequency Analysis of Rainfall Maximums for Central And Southern Florida, South Florida Water Management District. Technical Publication 81-3.

Paulhus, J. L. H. and M. A. Kohler. 1952. Interpretation of Missing Precipitation Records. Monthly Weather Review, Vol. 8, pp. 129-133. August 1952.

Pielke, R., 1974. A Three-Dimensional Model of the Sea-Breezes Over South Florida. Monthly Weather Review, Volume 102, pp. 115-139. 1974.

South Florida Water Management District. 1986. Management and Storage of Surface Waters, Permit Information Manual Volume IV.

### APPENDIX

### **Rainfall Station Basic Information**

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PERIOD OF RECORD	1940-1990	0661-8261	1957 - 1950 1957 - 1900	1957-1990	0661-2561	1960-1990	1965-1990	1962-1990	1967-1990	1929-1972	1957-1990	1957-1990	1957-1989	1965-1989	1362-1361	1367 - 1327	1961-0401			1965 1990	1944-1990	1965-1990	1965-1989	1965-1990	1965-1990	1966-1990	1955-1983	1955-1983 1055-1983	1955-1983 1955-1983	1955-1983	1955-1983	1965-1990	1965-1990	1964-1990	1960-1987 1930-1960		1958-1987	1951-1988	1965-1990	1957-1989	2001-1201	1957-1966		1913-1956	1956-1989	19001958	1900-1989	19431989	1915-1989 1905: 1900	6961-0691	19351989	
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411/100         117/203         MRT LME         0000           755410         117/203         MRT LME         0000           755410         117/203         MRT LME         0000           755411         117/203         MRT LME         0000           755411         117/203         MRT LME         0000           755411         107/201         LME PERCID EX         1104400           7155         105/200         MRT LME         711/201         10000           7155         105/200         MRT LME         711/201         10000         00000           7155         105/200         MRT LME         711/201         10000         00000         00000           7155         105/200         MRT LME         711/201         100000         000		1508125	ISLEMORTH	ORPINGE	65	19161983
S5101         111731         Constrained         Cristing         Constrained         Constrained <thconstraine< th="">         Constraine         <thconstraine<< td=""><td></td><td>1472053</td><td>HART LAKE</td><td>ORPINGE</td><td><u>1</u>0</td><td>1942-1979</td></thconstraine<<></thconstraine<>		1472053	HART LAKE	ORPINGE	<u>1</u> 0	1942-1979
36510         1125713         1126713		1441943	KI SSI MEE	OSCEOLA	<b>4</b> 7	1893-1959
37541         1128713         Contribution		1435686	믭	DICEOLA	30	1948-1989
7103         7103         7103         7104          7104         7104 <th< td=""><td></td><td>1072312</td><td>ACID</td><td>HI GHT BINDS</td><td>8</td><td>1933-1968</td></th<>		1072312	ACID	HI GHT BINDS	8	1933-1968
30041b         1002099         655.57         1004209         655.57         1004209         655.57         1004209         655.57         1004209         655.57         1004209         655.57         1004209         655.57         1004209         655.57         1004209         655.57         1004209         655.57         1004209         655.57         1004209         655.57         1004209         655.57         1004209         655.75         1001200         655.71         1001200         655.71         1001200         655.71         1001200         655.71         1001200         655.72         1001200         655.72         1001200         655.72         1001200         655.72         1001200         655.72         1001200         655.72         1001200         655.72         1001200         655.72         1001200         655.72         10012000         655.72         10012000         655.72         10012000         655.72         10012000         655.72         10012000         655.72         10012000         655.72         1001000         655.72         1001000         655.72         1001000         655.72         1001000         655.72         10010000         655.72         10010000         655.72         10010000         655.72         10010000         655.		1128713	PIERC	ST.LUCIE	82	1061 - 1989 
Second         Direction         Member of accurate for Lewis for the offer in th		1053946	H6	HI GHLANDS	2	F161-0261
52669         90000         655-7         64000         655-7         64000         655-7         64000         655-7         64000         655-7         64000         655-7         64000         655-7         64000         655-7         64000         655-7         64000         655-7         64000         655-7         64000         655-7         64000         655-7         64000         655-7         64000         65000         655-7         64000         65000         655-7         64000         64000         650000         65000         65000 <t< td=""><td></td><td>1044204</td><td>/S-193 UN THYLOR CREEK</td><td>OKEECHUBEE</td><td></td><td>1948-1989</td></t<>		1044204	/S-193 UN THYLOR CREEK	OKEECHUBEE		1948-1989
Sciency         Sciency <t< td=""><td></td><td>192016</td><td>UR LAKE UKEELMUBEE ON LAKE OVERCHOREE OF</td><td>ULTUES ULTUES</td><td></td><td>6861-8161</td></t<>		192016	UR LAKE UKEELMUBEE ON LAKE OVERCHOREE OF	ULTUES ULTUES		6861-8161
SERTE         STATE         CONTLER         STATE           STATE         S		000000 796100	DOT NT HERO	DOLH DCOCU	р <b>и</b> О М	6991 - 20-61 1999 - 1999
37322         37325         100000         64730         100000         45           376647         54730         100000         6453         100000         45           376647         54515         100000         6451         100000         45           376647         54515         100000         6451         100000         45           376647         54515         100000         6410         100000         45           537325         53397         100000         6410         100000         45           537325         53397         100000         6410         100000         46           73501         75956         100000         6410         100000         46           73512         53357         100000         6410         100000         44           73529         54307         100000         6410         100000         44           73525         100000         64100         100000         24         44           73525         100000         64100         100000         24         44           73525         100000         64100         100000         24         44           74525 </td <td></td> <td>313040</td> <td></td> <td>LTLI DEALI</td> <td>2</td> <td>COCT - 22CT</td>		313040		LTLI DEALI	2	COCT - 22CT
240891         667430         MPLES           270091         667430         MPLES           270091         563113         EVERALDES           270091         563113         EVERALDES           270091         563113         EVERALDES           270011         73490         FEVERALDES           270012         219473         THATI INTOLL I FOLL I AL OTALLE BEND           270012         219473         THATI INTOLL I FOLL I AL OTALLE BEND           270012         25653         TARLINI FOLL I AL OTALLE BEND           273012         719102         256653         TARLINI           773023         53761         23940         TARLEN           773031         57765         53911         TARLEN           773031         57765         53911         TARLEN           773031         57765         53911         TARLEN           773032         57765         57904         56.51         TARLEN           778570         56.51         TARLEN         TARLEN         TARLEN           778571         53704         56.51         TARLEN         TARLEN           778575         53704         56.51         TARLEN         TARLEN		763455	LAVE TRAFFICED	COLL 152	2	1940-1968
3756/1         5755/1         5755/1         5755/1         5756/1         5755/1         5720         5751/2         5720 <td></td> <td>667430</td> <td>NAPLES</td> <td>COLLER</td> <td>;₽</td> <td>9891-CP61</td>		667430	NAPLES	COLLER	;₽	9891-CP61
23/088         73/93         EV         MEST         CALLE         BEIN         MONDE         65           559130         2/3977         TMERNITR         FO         MULE         BEIN         MURENIT         65           557501         7/3575         513377         TMERNITR         FO         MURENIT         65           73501         7/3575         513377         TMERNIT         FO         MURE         65           735761         53555         MIRHIT         FO         MURENIT         FO         MURE         65           735761         53555         53556         MIRHIT         MIRENIT         FO         MURE         66         66           735761         53556         FIGH         MIRENIT         FO         MURE         66		549519	EVERGLADES	COLLIER	53	1924-1989
653150         243843         Filvernics         65           736031         73127         700000         64           735032         518377         700000         66           735031         77955         11811         67           735031         77955         11811         67         9100           735751         52655         11811         60         910         23           735751         52655         1181         60         910         24           735751         52655         1181         60         910         24           735751         52655         1181         60         910         24           735751         53556         11.1         60         910         24           735753         50         11.1         100         66         24           735753         50         11.1         100         66         24           73555         51         11.1         100         66         24           73555         51         11.1         100         66         24           73555         51         11.1         110         66         24     <		79499	HIX OF	HONROE	63	1832-1974
55732         51377         FINTIANIT TRAIL AT 40 NLLE BEND         DIDLE         45           732501         779102         TIANIT BRALL         TAO NLLE BEND         DIDLE         45           735742         51307         TANT BRAL         TANT BRAL         TAO NLLE BEND         DIDLE         45           735741         57955         TAT IL AULT BRAL         DIDLE         46         41           735742         57565         TANT BRACK         DIDLE         ARE         543507         HTALENH         DIDLE         46           735743         57455         T. LAUDERDALE         EXPERSIL         T. LAUDERDALE         DIDLE         47           755743         5307485         T. LAUDERDALE         EXPERSIL         DIDLE         47           755743         5307485         T. LAUDERDALE         EXPERSIL         DIDLE         47           7537074         55613         DIDLE         BROMARD         75         47           757074         55614         DIDRE         BROMARD         75         47           7537074         55614         DIDRE         DIDRE         PALL         BROMARD         75           775074         55614         DIDRE         DIDRE		243843		HONROE	<del>8</del>	1936-1989
732991         175305         11 mil liencumul secure rs         73           735751         53575         53565         11 mil liencumul secure rs         74           735751         53565         11 mil liencumul secure rs         76         74           735751         53575         53567         11 mil liencumul secure rs         74           735751         53576         11 mil liencumul secure rs         74           73555         53576         11 mil liencumul secure rs         74           73555         53576         11 mil liencumul secure rs         74           73555         53576         11 mil liencumul secure rs         74           736640         531381         74         140         800460           752522         530580         17.1         140         800460           752523         530580         17.1         140         74           737640         641381         74         140         74           737641         140         800460         74         74           737641         1410         800471         140         75           737641         1410         10060         74         74           737641 <td></td> <td>518377</td> <td>TRAIL AT 40</td> <td>DADE</td> <td>€;</td> <td></td>		518377	TRAIL AT 40	DADE	€;	
Ticked         State         State <t< td=""><td>-</td><td>201676</td><td></td><td></td><td>5.8</td><td>1923-1938 1950 1990</td></t<>	-	201676			5.8	1923-1938 1950 1990
7576.1         73576.1         73576.1         73576.1         7348.5         7357.5         7348				Danc	5	1477-1446
749358       543507       Hittleff       74         749358       543207       Hittleff       74         749358       543207       Hittleff       74         75554       537465       F1.LAUDERDALE       547         75554       537465       F1.LAUDERDALE       547         778540       543218       POMPANO BEACH       54300         778541       543218       POMPANO BEACH       54004         778541       543211       HONDERDALE       5404460         778541       54044       5414       5404         730707       955113       HONDERDALE       5404460         730025       14604       14604       57         730126       14604       14604       57         730127       1526635       14604       1666         730255       15404       17       1666         731260       1326635       14664       57		CODDOC CODDOC	DIPONDY WCHA OP			COCT - 12CT
79358       537465       FT.LINDERDALE EXPERIMENT STATION       88004880       23         762544       543218       FT.LINDERDALE EXPERIMENT STATION       88004880       23         762554       543218       FT.LINDERDALE EXPERIMENT STATION       88004880       23         776557       541281       FT.LINDERDALE EXPERIMENT STATION       88004880       23         776564       541281       FT.LINDERDALE       88004880       23         776575       86173       HPPALLUKO       88004880       23         737004       955114       LOXBINTCHEE       88004880       23         737004       955114       LOXBINTCHEE       88004880       23         737015       805713       HPPALLUKO       88004880       23         737016       855114       LORBURLE       REST PALLA       860486         737015       805754       REAMARCH       REACH       45         737016       805202       HEST PALLA BERCH       REACH       45         73712       8012590       LINEL MARKER       REACH       45         732643       1072386       REAMARCH       REACH       45         733281       1113082       1114       REACH       45		543507			24	0041-0441
765541       643218       FT. LAUDERONE       8804480       28         765640       651381       PONLA 4 UM       8804480       28         770565       651381       PPONLA 4 UM       8804480       28         77056       651381       PPONLA       8804480       28         73705       85114       LOXPAND BEACH       8804480       28         73705       85114       LOXPAND BEACH       8804480       28         73705       85114       LOXPAND BEACH       8804480       28         7300907       855114       LOXPAND BEACH       8804480       28         7300907       855114       LOXPAND BEACH       8804480       28         7300907       855124       LARC HIANSSEE       99.0468       29         731783       113.082       817.240       REACH       48         737783       817.840       81.840       45       27         8111.012       817.840       81.840       45       46         8111.012       817.840       81.840       45       47         8111.012       81.820.840       81.840       45       47         8111.012       81.1250       0.81.840       45		637485	EXPERTHENT	BEOLARD	- 7	1951
76.26.22         6.30698         DIALIA 4 UM         BROUGHED         28           7786.40         6.91381         PONPANO BEACH         BROUGHED         73           7786.40         6.91381         PONPANO BEACH         BROUGHED         73           7786.40         6.91381         LONDANICHEE         PILLA BEACH         55           737007         85.6113         LONDANICHEE         PILLA BEACH         55           737007         85.6113         LONDANICHEE         PILLA BEACH         55           737007         85.6113         LONDANICHEE         PILLA BEACH         55           737091         85.0156         LIKE MEMASSEE         PILLA BEACH         55           3302985         1526035         LIKE MEMASSEE         PILLA BEACH         55           3302985         1532754         ORPTION         DRAME         56           3102290         0.97100         DR REPORT         DRAME         57           3102290         0.97100         DR REPORT         DRAME         57           3102290         1.072550         STAURT IN         DRAME         57           3102290         1.072550         STAURT IN         DRAME         57           310229 <td>•</td> <td>643218</td> <td></td> <td>BROMARD</td> <td>8</td> <td>1912-1989</td>	•	643218		BROMARD	8	1912-1989
778640         691381         РОНРОНИО         8700460         631381         РОНРОН (000000000000000000000000000000000000		630698	DANIA 4 HNH	BROHARD	82	1942-1973
810575         806713         HYPOLURO           737004         855114         LOXINHTCHEE         Pirl BEACH         52           737004         855114         LOXINHTCHEE         Pirl BEACH         52           350156         1525636         LAKE HTAHRSEE         Pirl BEACH         55           350156         1526636         LAKE HTAHRSEE         Pirl BEACH         55           350156         1526636         LAKE HTAHRSEE         PRANE         Pirl BEACH         55           350156         1532754         GRLANDO UB RIRPORT         PRANE         PRANE         21           37032         1532754         GRLANDO UB RIRPORT         PRANE         PRANE         21           113032         1012540         1532754         GRLAND         48         21           743789         1012240         101266         FILMANE         75         24           817624         FILMANE         101266         73         10         27           817624         FILMERCH         0.5. SUGAR         PALA         27         27           817624         FILMERCH         0.5. SUGAR         0.6.000         10         10         10           817626         FILMERCH	•	182159	_	BROHARD	4	1941-1989
737004         656114         LocanianTCHEE         Pilla BEACH         45           790907         6550122         HEST PALH BERCH AIRPORT         PALH BERCH         45           790907         653022         HEST PALH BERCH AIRPORT         PRLH BERCH         46           790907         653022         HEST PALH BERCH AIRPORT         DRINGE         24           790907         653046         1526636         LARC MIAHOSSEE         DRIANGE         24           73789         1526636         LAST MOL UB RIRPORT         DRIANGE         24           1130085         1525636         STAURT JH         DRIANGE         24           743789         1042558         STAURT JH         HRRTIN         45           810124         867296         HEST PALH BERCH         45         PALH BERCH         45           810124         867296         HEST PALH BERCH         45         PALH BERCH         45           810124         867296         HEST PALH BERCH         45         PALH BERCH         45           810124         867296         HEST PALH         HERCH         45         PALH BERCH         45           810124         817624         FT         HEVERCH         10.5         DROPE <td>-</td> <td>806713</td> <td>HYPOLUNO</td> <td></td> <td>25</td> <td>1890-1959</td>	-	806713	HYPOLUNO		25	1890-1959
790907         853022         HEST PALH BEACH AIRPORT         PALH BEACH         48           350156         1526036         LAKE HITHANSSEE         0RANGE         23           392985         1532754         0KLANDO UB RIRPORT         0RANGE         23           392985         1532754         0KLANDO UB RIRPORT         0RANGE         23           113082         801290         CAPTIVA         16         27           73783         153254         0KLANDO UB RIRPORT         0RANGE         23           73783         101230         5700 UB RIRPORT         10         73           73783         101244         867295         0RANGE         23           810124         857295         1087 POINT         U.S. SUGAR         75           6704893         89249         LIBERTY POINT         U.S. SUGAR         61.ADES         75           677793         824768         RITHLO (FORHERLY CHRISTINGS)         0ADE         24         75           677793         824758         ROYAL PALH RANGER         0.5         61.ADES         24           677793         824758         ROYAL PALH RANGER         0.6         24         25           650457         REVIL VS GREEN TONER COUPLICATE	•	856114	LOXONART CHEE	PALH BEACH	ŧ	1941-1988
350156       1526836       LMCE NIMMISSEE       24         392995       1532754       0KLMNOE UB RIRPORT       27         113082       801290       CAPTIVA       21         743789       1042558       57AURT IN       45         713789       1042558       57AURT IN       45         7143789       1042558       57AURT IN       45         713789       1042558       57AURT IN       45         810624       FT. NEVENS       104600       21         810624       FT. NEVENS       104600       26         217472       81762       FT. NEVENS       10600         217472       81762       FT. NEVENS       00000         504893       89249       LIBERTY POINT - U.S. SUGRR       06000         633984       382765       ROWL PALM RANGER       06000         65793       824768       DEVIL 'S GAROBEN TOMER COUPLICATES)       910000         657733       824768       DEVIL 'S GAROBEN TOMER COUPLICATES)       910000         650945       84569       061100       07000       25         650045       84569       061100       07000       26         650045       84569       07011 STOTION		853022	HEST PALM BEACH AIRPORT	PALN BEACH	8	1939-1989
392/395         153/2734         UKLINNU HØ RIKPUKRI         UKRUKL         31           113/082         80/1290         GAPTIVR         11         0         27         31           7437793         10/45558         57AURT IN         45         11         21         27         21         27           7437793         10/45558         57AURT IN         45         10         25         27         11         26         27         21         27         21         27         21         27         21         26         27         21         26         27         25         27         27         27         27         27         27         27 </td <td></td> <td>1526836</td> <td></td> <td>ORANGE</td> <td>Ψ N</td> <td>1939-1964</td>		1526836		ORANGE	Ψ N	1939-1964
113062         B012500         CHPLION           743769         1042558         STAURT LN           7437793         1042558         STAURT LN           810124         867296         HERVERS           810123         8167296         HERVERS           810124         867296         HERVERS           810123         8167296         HERVERS           8178         8178.0         HERVERS           66993         898249         LIBERTY POINT - U.S. SUGRR           467896         1532617         BITHLO (FORHERLY CHRISTHAS)           66393984         382765         ROVAL PALH RANGER           653984         382765         ROVAL PALH RANGER           653994         382765         ROVAL PALH RANGER           650955         ROVAL PALH RANGER         0ROME           650945         B1450         FIRMING           620845         B4505         PALILY           620845         B4505         PALIL           620845         B62045         PALL           620845         PALL         FIRMING           528210         CELLE 6LADE EXPERIMENT STATION           620845         PALL         PALOR           526643		1532754	UKLANDU HU HIKYUKI	UKHNGE	10	6861-8461
CT0703         JUT42348         STRUKT         MAKILM         MAKIL		NG7T DR			21	1921-1221
0.1012         0.0111         0.01111         0.01111         0.011		BCC2L01			f s	5851-0051
504693       898249       LIBERTY POINT - U.S. SUGAR       6LADES       45         467895       1532617       BITHLO (FORMERLY CHRISTHAS)       0RAMGE       24         467896       1532617       BITHLO (FORMERLY CHRISTHAS)       0RAMGE       24         467896       1532617       BITHLO (FORMERLY CHRISTHAS)       0RAMGE       24         457793       824768       DEVIL 'S GARDEN TOHER (DUPLICATES)       HENDRY       25         457793       824768       DEVIL 'S GARDEN TOHER (DUPLICATES)       HENDRY       25         457793       824768       DEVIL 'S GARDEN TOHER (DUPLICATES)       HENDRY       25         457793       824768       DEVIL 'S GARDEN TOHER (DUPLICATES)       HENDRY       25         457793       824768       DEVIL 'S GARDEN TOHER (DUPLICATES)       HENDRY       25         520210       294509       BELLL SIGNE EXPERIMENT STATION       HENDRY       25         526649       BOG90       H65-2 ON LARE DREEKINENT STATION       HENDRY       37         526649       BOG90       H65-2 ON LARE DREEKINENT STATION       HENDRY       37         534089       B72719       CLENISTON       HENDRY       37         534089       B72719       CLENISTON       HENDRY		007700 9077610	HEDI FRUER 24 Menueri			0051_5261
JORDO         CONTR         Control         Control <thcontrol< th=""> <thcontrol< th=""> <thcontr< td=""><td></td><td></td><td>TWT - II C</td><td></td><td>24</td><td>CDCT_TCDT CLOFT0COF</td></thcontr<></thcontrol<></thcontrol<>			TWT - II C		24	CDCT_TCDT CLOFT0COF
6.33396         382765         ROYAL PALA RAMER         Control         21           457793         822766         DEVIL'S GANDEN TOMER         DADE         38           457793         823766         DEVIL'S GANDEN TOMER         DADE         38           457793         824769         DEVIL'S GANDEN TOMER         DADE         38           457793         824769         DEVIL'S GANDEN TOMER         DADE         25           620045         844509         BELLLS GLADE EXPERIMENT STAFION         PAL-N BENCH         25           526210         293637         FLANINGO         PAL-N BENCH         25           526210         293637         FLANINGO         PAL-N BENCH         25           526649         80690         H65-2 ON LARE DREECHOBEE AT CLENISTON         HENDRY         37           534069         872719         CLENISTON         FILELD STAFION         HENDRY         37		1532617	-	ODANCE	2	0001-0201
457793         824768         DEVIL'S GRADEN TOHER CUPLICATES)         HENDRY         25           620845         844509         BELLE GLADE EXPERIMENT STAFTON         PAL H BEACH         25           528210         293637         FLANTINGO         PAL H BEACH         25           526649         890690         H65-2 ON LIRE DIRECHOBEE AT CLENISTON         HENDRY         37           534089         872719         CLENISTON         FILL DIRECHOBEE AT CLENISTON         HENDRY         20		382765	, e	DRDE	J M	1949-1989
620845         844509         BELLE         BLANCH         STATION         PALM BEACH         62           520810         293637         FLMMIM60         EXPERIMENT STATION         PALM BEACH         62           5208210         293637         FLMMIM60         EXPERIMENT STATION         PALM BEACH         62           664357         427084         HOMESTEAD         EXPERIMENT STATION         DADE         23           526649         890690         H65-2         ON LARE DREECHOBEE AT CLEMISTON         HENDRY         37           534089         872719         CLEMISTON         FIELD         STATION         HENDRY         20		824768	S GAPNEN TOUCD	HENDEV	\$ X	1956-1989
S20210         293637         FLINTING0         S20210         293637         FLINTING0         201           520210         293637         FLINTING0         S100         800690         HOHESTEAD EXPERIMENT STRITON         0906         37         37         35 </td <td></td> <td>844509</td> <td>z</td> <td>PRIN REALY</td> <td>3 2</td> <td>1924-1989</td>		844509	z	PRIN REALY	3 2	1924-1989
664357     427084     HOHESTEED EXPERIMENT STRTION     DADE     37       526649     890690     H65-2 ON LAKE DKEECHOBEE AT CLENISTON     HENDRY     37       534089     872719     CLENISTON     FIELD STRTION		293637		MONROF	5 X.	1962-1989
526649 890690 H65-2 ON LAKE DKEECHOBEE AT CLENISTON HENDRY 37 3 534089 872719 CLENISTON FIELD STRITON HENDRY 20 3	_	427084	<b>D EXPERIMENT</b>	DRDE	. 20	1910-1989
872719 CLEHISTON FIELD STATTON		880590	ON LAKE	HENDRY		1951-1988
	534089	872719	STON FIEL	HENDRY	2	1968-1990

	K-COORDI NATE	Y-COORDINATE	STATION NAME	COUNTY	# OF YEARS	PERIOD OF RECORD
65	624709	887229	PELICAN 34 - U.S. SUGAR	PRLH BERCH	45	1929-1973
67	606168	872233	S"N - )	PRLM BERCH	32	1942-1973
89	550416	866576	- U.S. SUGAR		ž	1913-1973
5	563018	859420	CRMRL RT H65-3 & S+3 RT LAKE		21	1967-1990
2	593020	860558	5	PALM BERCH	<b>%</b>	1951-1988
7027	365896	1435884	CINEE 2	OSCEDLA	ß	2261-0461
7035	732327	1009774		MARTIN	37	1940-1989
7036	391538	\$39564	VENUS 4 SSH	HI GHLANDS	<b>%</b>	1928-1978
7037	624749	963967	TAVACA LOCK (CORPS OF E	MARTIN	ጽ	1940-1989
2039	526649	881699	H65-2 ON LAKE OKEECHOBEE AT CLEWISTON	HENDRY	<del>6</del>	1936-1989
7040	592686	860287	8	PALM BEACH	各	1937-1989
162	619721	919826	ON LAKE OKEECHOBEE TO	PRLM BERCH	송	1940-1988
5-02	400590	892412	SPILLHAPY & LOCK ON CALODSAHATCHEE RIVER	GLADES	88 B	1936-1989
7045	358317	PP7965	FELDR - RECORDING BURGE	HENDRY	ĸ	1941-1972
7050	267390	91429	KEY WEST 450 AIRPORT	MONROE	88	1941-1989
7052	599437	206018	LIGNUMVITAE KEY - RECORDING GUAGE	HONROE	27	1941-1976
72057	226262	502333	HIGHI 48 CITY	DADE	63	1901-1983
7065	731490	535110	MIRMI RIRPORT USHO RP CHORP STRIION 5663)	DHDE	\$	1939-1989
7067	680128	578682	PENNSUCO 5NH	DHDE	8	1941-1989
27072	363767	735636	BOCR RATON	PALM BERCH	2	1948-1989
6202	392985	1532753	ORLANDO HB AIRPORT	ORINGE	4	1940-1989
7086	651660	167727	NORTH NEW RIVER CANAL 2	PALM BEACH	ß	1991-01-61
7088	670038	521196	TAMIANI CANAL AT DADE - BROWARD LEVEE	DHDE	21	1941-1966
£602	216752	818636	FT. HEYERS - RECORDING GUNGE	LEE L	35	1941-1989
72	583269	852796	SOUTH SHORE - U.S. SUGAR	PRLM BERCH	R	19-00-1972
R	597341	847274	9 <del>8</del> 7		27	1959-1990
730	597341	847274	~	PALM BEACH	Æ	1929-1981
22	706624	854741	S-5A DM H.P.B. CANAL AT W.C.A.1	PALM BERCH	83	1956
<u>78</u>	785339	831476	Ξ.	PALM BEACH	31	1928-1990
æ	438597	1446710	LAKE NYRTLE (2A35)	OSCEOLA	2	1953-1990
81	759669	828885	LAKE HORTH RD. AND E1 (LHOD)	PALH BEACH	31	1940-1990
8	786400	795838	BOYNTON RD. & MILITARY TR. (LHOD)		31	1940-1990
<b>2</b> 8	771212	738465	BOYNTON RD. & E2 (LHOD)	PALM BEACH	ጽ	0661-3261
88	760656	786988	LATERAL 28 & RANGELINE (LADD)	PRLM BERCH	32	1940-1990
68	754166	793410	H.C.A. 1 IN LEVEE L-40 NEAR BOAT RAMP	PRLH BERCH	8	0661-0961
ø	355982	1438445		OSCEOLA	21	1964-1990
8	786766	782109	LAKE HORTH DRAINAGE DISTRICT OFFICE (LADD)	PRLM BEACH	31	1955-1990
9018	666022	574816			53	62612561
р С	771113	77 1605		PRLM BERCH	8	1928-1990
66	759988	166775			t n	1955-1990
ង	681286	777786	HILLSBORD CANAL AT 5-6 NEAR SHANANO		27	1960-1990
86	573893	726262	S-8 SPILLHRY ON HIGHI CANAL	PRLH BERCH	22	1962-1990

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