

**ISOPLUVAL CONTOUR CURVES FOR
LONG DURATION STORMS IN FLORIDA**



By

**Marty Wanielista
Ron Eaglin
Linda Eaglin**

For

Florida Department of Transportation

March, 1996

1. Report No. Final Report WPI #0510680		2. Government Accession No.		3. Recipient's Catalog No.	
4. Title and Subtitle Isopluvial Contour Curves For Long Duration Storms In Florida				5. Report Date March 1996	
				6. Performing Organization Code	
7. Author(s) Marty Wanielista, Ron Eaglin, Linda Eaglin				8. Performing Organization Report No.	
9. Performing Organization Name and Address University of Central Florida Civil Engineering and Environmental Sciences Department P.O. Box 612450 Orlando, FL 32816-2450				10. Work Unit No. (TRAIS)	
				11. Contract or Grant No. 99700-3525-119	
12. Sponsoring Agency Name and Address: Florida Department of Transportation 605 Suwannee Street Tallahassee, FL 32399-0450				13. Type of Report and Period Covered Final Report 8/20/93 - 11/30/95	
				14. Sponsoring Agency Code 16-20-757	
15. Supplementary Notes Prepared in cooperation with the US Department of Transportation and Federal Highway Administration					
16. Abstract: <p>The constant rainfall volume (isopluvial) curves presented by the Florida Department of Transportation (FSOT) in their drainage manual are used by the FDOT and several Water Management districts for drainage structure design and stormwater related modeling. The FDOT curves were developed in 1961 by the US Weather Bureau and presented in their Technical Paper No. 40. The objectives of this research were to develop a set of updated and improved rainfall volume versus return period curves for the State of Florida at durations of 1,2,3,4,7, and 10 days and at return periods of 2,5,10,25,50, and 100 years.</p> <p>Raw rainfall data were obtained from compact discs provided by the National Oceanic and Atmospheric Administration (NOAA). The raw data were inputted into a computer parsing program to determine the maximum rainfall event volume for each storm duration for each year of record. A fit distribution program was used to predict the storm event volumes at different return periods and durations. The results of the fit distribution output were smoothed by a logarithmic curve to ensure continuity and consistency. These smoothed curve values were processed by a contour plotting program and projected onto a digitized drawing of the State of Florida. The isopluvial lines are smoothed using the data from nearby rainfall gaging stations to minimize statistical variances from individual sites.</p>					
Rainfall Volume State of Florida Statistical Methods Curve Smoothing Environment Design Curves				18. Distribution Statement No restrictions. This document is available to the public through the National Technical Information Service Springfield, VA 22161.	
19. Security Classif. (of this report) Unclassified		20. Security Classif. (of this page) Unclassified		21. No. of Pages 182	22. Price \$118,823

ABBREVIATIONS AND CONVERSION FACTORS

[Factors for converting inch-pound units to International System of units (SI) and abbreviation of units]

<u>Multiply</u>	<u>By</u>	<u>To Obtain</u>
inch (in)	25.4	millimeter (mm)
foot (ft)	0.3048	meter (m)
acre	0.4047	hectare (ha)
cubic foot per second (ft ³ /s)	0.02832	cubic meter per second (m ³ /s)
square foot (ft ²)	0.09290	square meter (m ²)
pound (lb)	0.4536	kilogram (kg)
cubic foot (ft ³)	0.02832	cubic meter (m ³)

NOTICE

The contents of this report reflect the views of the authors who are responsible for the facts and the accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the Federal Highway Administration. This report does not constitute a standard, specification, or regulation.

Neither the State of Florida nor the United States Government endorse products or manufacturers. Trade or manufacturers names appears herein only because they are considered essential to the object of this report.

EXECUTIVE SUMMARY

Flood control, erosion control, pollution control, groundwater recharge, road safety, and environmental impact are some of the common objectives shared between government agencies and private industry in the important area of stormwater management. Peak rainfall data are used in designing stormwater management systems, such as retention ponds and roadside ditches, and in determining the flooding potential of various storm events. Water Management Districts and other government agencies are committed to maintaining the most accurate and up-to-date rainfall frequency data for use in regulating permit activities and for the development of stormwater management plans. The objectives of this study were to develop the constant rainfall volume curves for the worst case condition over duration periods between 1 and 10 days that may be expected to occur on an average frequency of 2, 5, 10, 25, 50, and 100 years.

Structures to prevent flooding from rainfall, remove pollutants from rainfall runoff, and other drainage devices are designed with the safety of the public in mind. From an economic standpoint, it is also important in preventing overdesign. Currently, the Florida Department of Transportation and several Water Management Districts use rainfall curves that are 34 years old developed by the U. S. Weather Bureau for the entire country. In developing these curves, complete rainfall data were used from only 2 cities in Florida (Miami and Jacksonville) from a total of 9 locations in Florida. In contrast, this study used the complete rainfall data from 56 stations over a period of more years. Many areas

of the state were not adequately represented in the Weather Bureau study such as the west coast of Florida and the panhandle area.

This study and three studies by the Water Management Districts (SFWMD, SWFWMD, and SJRWMD) suggest that the rainfall curves currently being used by FDOT and others have rainfall volumes (in inches) which are too high, as shown below in a comparison between this study (thin lines) and the USWB Technical Paper No. 40 study (bold lines) for the 7 day storm event at a return period of 10 years. Using more accurate curves such as those contained in this study can save millions of dollars for both public and private industries and lead to more accurate flooding predictions.

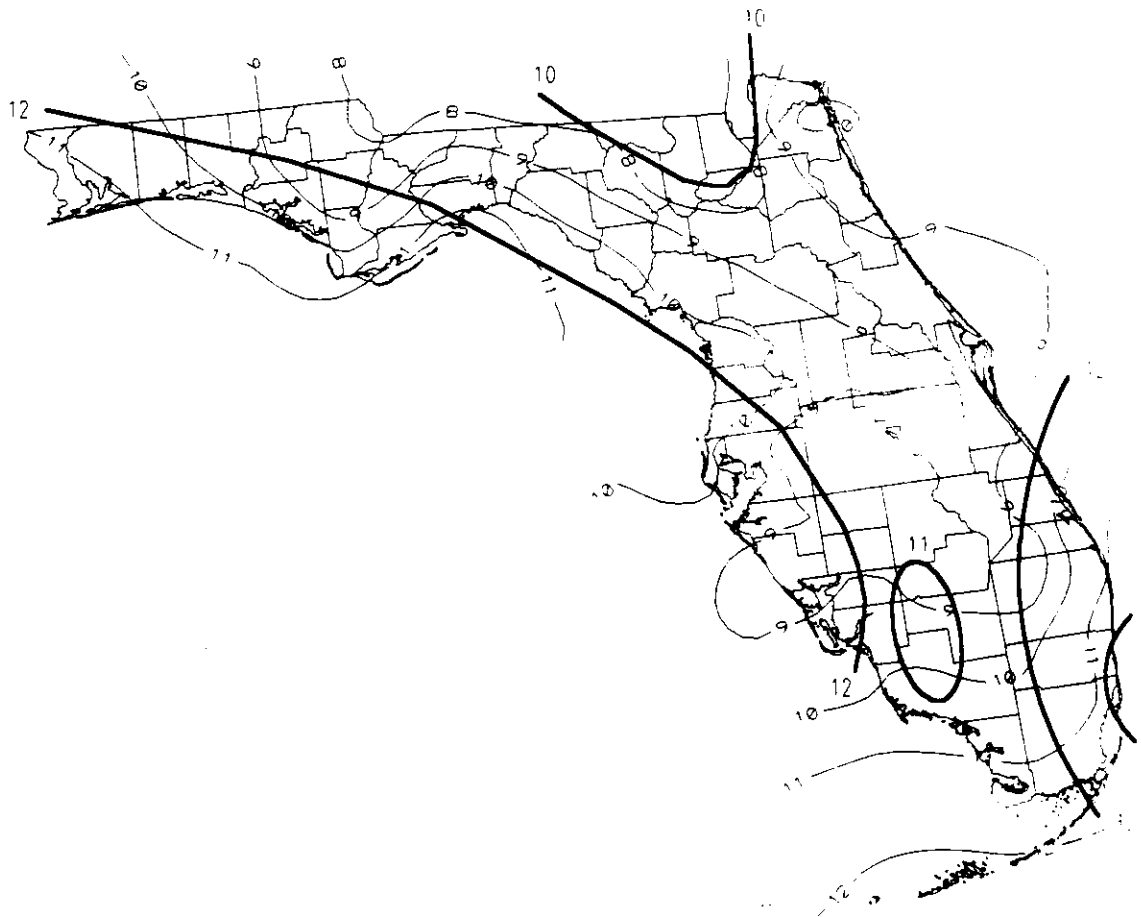


TABLE OF CONTENTS

LIST OF TABLES	viii
LIST OF FIGURES	ix
CHAPTER 1 - INTRODUCTION	1
Background	1
Objectives	2
Limitations	2
CHAPTER 2 - LITERATURE REVIEW	3
Data Extrapolation, Interpolation, and Smoothing	3
Inverse Distance Method	3
Minimum Curvature Method	4
Kriging Method	4
Fit Distribution	6
Critical Duration Storm Event	10
CHAPTER 3 - RAINFALL DATA PROCESSING	11
Rainfall Stations	11
Parsing Rainfall Data	14
Rainfall Distribution Analysis and Prediction	16
Smoothing the Prediction Curves	17
Using SURFER to Grid and Contour	22
Isopluvial Curve Development	26
CHAPTER 4 - RESULTS	27
Comparison with Previous Studies	27
U. S. Weather Bureau's Technical Paper No. 40	28
South Florida Water Management District	33
St. Johns River Water Management District	36
Southwest Florida Water Management District	38
Suwannee River and Northwest Florida Water Management Districts	39
Skewness Coefficient Comparison	42

CHAPTER 5 - SUMMARY AND CONCLUSIONS	47
Summary	47
Conclusions	48
Recommendations	49
 APPENDICES	
A. Florida 1, 2, 3, 4, 7, and 10 Day Isophrival Maps for 2, 5, 10, 25, 50, and 100 Year Return Periods	51
B. Summary of Storm Event Volumes for Each City Based on the Log Pearson Distribution Fit	88
C. Mean Annual and Maximum Rainfalls for Various Duration Storms	108
D. Comparison Between the Result of This Study, TP-40, and Selected Water Management District Studies	165
E. Prediction Equations for Storms >24 Hours in Duration at Various Return Periods for Selected Florida Cities	179

LIST OF TABLES

3.1 Rainfall Stations and Number of Years of Data	12
3.2 Tampa, Florida Initial Fitted Distribution	18
3.3 25 Mathematical Equations Investigated for Empirical Curve Fitting	19
4.1 Summary of Analysis Techniques Differences Between This Study and TP-40	31
4.2 SFWMD Study vs. This Study Comparison for West Palm Beach	35
4.3 SFWMD Study vs. This Study Comparison for Moore Haven	35
4.4 SJRWMD Study vs. This Study Comparison for Orlando	38
4.5 SJRWMD Study vs. This Study Comparison for Jacksonville	38
4.6 SWFWMD Study vs. This Study Comparison for Tampa	39
4.7 TP-40 Study vs. This Study Comparison for Grady	41
4.8 TP-40 Study vs. This Study Comparison for Pensacola	42

LIST OF FIGURES

3.1 Rainfall Stations Used in This Study	13
3.2 Orlando Rainfall Station Hourly Data Example	12
3.3 RAINFALL PARSER Data Parsing Output	15
3.4 RAINFALL PARSER Fit Distribution Screen	17
3.5 West Palm Beach - 100 Year Return Period	21
3.6 West Palm Beach - 2 Year Return Period	21
3.7 Sample Curve Fitting Output from KURV+	23
4.1 Comparison Between This Study and TP-40 for the 10 Year 7 Day Storm Event	32
4.2 Comparison Between This Study and the South Florida Water Management District Study for the 10 Year 3 Day Storm Event	34
4.3 Comparison Between This Study and the St. Johns River Water Management District Study for the 10 Year 2 Day Storm Event	37
4.4 Comparison Between This Study and the Southwest Florida Water Management District Study for the 25 Year 1 Day Storm Event	40
4.5 Skewness Coefficient Variation with Time for Apalachicola	44
4.6 Skewness Coefficient Variation with Time for Graceville	45
4.7 Skewness Coefficient Variation with Time for Jacksonville	46

CHAPTER 1

INTRODUCTION

Background

The Florida Department of Transportation (FDOT), Florida Water Management Districts, and private companies rely on rainfall volume curves for various durations and return periods in the design of various stormwater related structures. For the most part, the current curves being used are of variable age and are derived from extensive manual research of daily rainfall records. This study attempts to contribute to the understanding of Florida's precipitation volume profile by developing a method to use computer automation to analyze hourly rainfall records and to provide updated rainfall volume curves for the State of Florida at various storm durations and return periods.

The Florida Department of Transportation and several of the Water Management Districts currently use the results from the U. S. Weather Bureau's Technical Paper No. 40 (TP-40) published in 1961. Precipitation contours are constructed for the United States for durations from 2 days to 10 days at return periods of 2 to 100 years and are published for design use. Some Water Management Districts have performed their own rainfall studies, such as the South Florida Water Management District (Trimble, 1990), the St. Johns River Water Management District (Rao, 1988), and the Southwest Florida Water Management District (Wanielista et. al., 1987).

Objectives

The primary objective of this research was to analyze the extensive National Weather Service data on rainfall and develop the 1, 2, 3, 4, 7, and 10 day duration storm event rainfall volumes for return periods of 2, 5, 10, 25, 50, and 100 years. The results of this research are rainfall volumes for all of the cities involved and the generation of constant volume (isophuvial) contour lines superimposed on a map of the State of Florida. The isophuvial lines are smoothed using the data from all of the contributing cities to minimize statistical variances from individual sites.

Limitations

Since this study used rainfall data records reported hourly instead of some other recording period such as daily, data was limited to as far back as the 1940's. In addition, only rainfall data reported to the National Oceanic and Atmospheric Administration (NOAA) National Climatic Data Center and included in their published compact disc records were used. Although most stations consisted of approximately 50 years of data, some stations had fewer years of data and a few stations had less than 20 years of data.

CHAPTER 2

LITERATURE REVIEW

Data Extrapolation, Interpolation, and Smoothing

In most cases of rainfall data determination there is a problem of insufficient data in many parts of the study area. The data that are collected must be interpolated to the missing areas using appropriate techniques. Contouring is one of the most common techniques for analyzing data in rainfall investigations. Computer software such as SURFER (Golden Software, Inc., 1989) greatly simplify the required interpolations of available data and generates contour maps of transmissivity, concentration, hydraulic head, or any other characteristics of the subsurface.

Contour maps and three dimensional surface plots require data in a uniformly spaced grid before they are generated. A gridding procedure is used to take randomly spaced data and apply one of several interpolation methods to form a regularly spaced grid. There are several methods used for interpolation, including Kriging, Inverse Distance, and Minimum Curvature.

Inverse Distance Method

One of the methods of gridding interpolation is through the use of an approach known as inverse distance gridding. Each data point influences a given area and other

points according to the formula: $Z = \frac{\sum_{i=1}^n Z_i / (d_i)^2}{\sum_{i=1}^n 1 / (d_i)^2}$ where Z_i is a neighboring point, d is

the distance, and n is the number of Z elements. If the distance weighting power is changed to three, then the inverse distance is cubed rather than squared and each point has less of an effect on other points. The greater the weighting power, the faster the decline of a surrounding point's influence on the unknown grid value as distance from the grid intersection node is increased. The computer program SURFER can calculate grid values for distance weighting powers between zero 0 and 10 with 2 being the default value.

Minimum Curvature Method

The minimum curvature method of grid interpolation will estimate data for portions of the grid where no data exists. This method applies an interpolation equation repeatedly to the grid surface with each application counting as one iteration. Successive iterations are performed until either the maximum absolute error falls in the allowable range or a maximum number of iterations is reached. This method is usually slower to calculate than the inverse distance method due to the large number of computations, but is usually more accurate.

Kriging Method

The most popular method of grid mapping irregularly spaced groundwater data is kriging. This procedure was named after a South African mining engineer named D. G. Krige who used this technique for predicting ore amounts. Kriging estimates a value where none exists by using nearby known values and a semivariogram and then tries to

minimize the variance of the estimation error with respect to a weighting factor applied to nearby points. A semivariogram is a plot of one-half of the mean of the sum of the difference between and two points squared plotted versus a distance h . For a simple linear case where the data points are uniformly spaced and stationary, the semivariance is

$$\gamma(h) = \frac{1}{2n} \sum_{i=1}^n [Y_i(x) - Y_i(x+h)]^2 \quad \text{where } Y_i(x) \text{ is the value of a}$$

variable x at location i , $Y_i(x+h)$ is the value of the variable at a distance h away, and n is the number of pairs at an interval h . The variance will tend to increase with increased separation distance until a point is reached where it no longer increases, which is known as the radius of influence.

After the semivariogram has been formed the kriging procedure can be performed on the data. The kriging estimation method assumes the best estimate is a weighted average of one or more sample points. Kriging is the method of analysis by which the optimal values of the weights are determined. The objective function for kriging is to minimize the error variance: $S_e^2 - \lambda \left[\left(\sum_{i=1}^n w_i \right) - 1 \right]$ where S^2 is the estimation variance and w_i is the weighting factor and λ is the Lagrangian multiplier. For an unbiased model, the sum of the weights is equal to one. Optimization for kriging is done by differentiating with respect to the unknowns and each derivative set equal to zero. For example, if a sample consists of two points, the kriging equations are:

$$\lambda + w_1 \gamma(S_1, S_1) + w_2 \gamma(S_1, S_2) = \gamma(S_1, Y)$$

$$\lambda + w_1\gamma(S_2, S_1) + w_2\gamma(S_2, S_2) = \gamma(S_2, Y) \quad \text{and}$$

$w_1 + w_2 = 1$ where the gamma semivariance terms are determined from the sample element pairs and the semivariance equation, the weighting terms (w) and the Lagrangian multiplier are solved from 3 equations, 3 unknowns. The results provide the weights that yield the minimum error variance. These weights are multiplied by their respected sample point values and added together to yield the estimation for the unknown value.

The number of points included in this estimation technique can either be fixed or inputted manually. If the number of points selected is 1, then it accepts this value as being the true value. This would be used in cases of regularly spaced, consistent data. For rainfall applications, data points are usually measured at irregularly spaced intervals. In this case, more nearby data points should be included in the interpolation of intermediate values to have more of a smoothing effect on the variability of the data. This smoothing effect may be appropriate when using numerical models to determine the overall flow pattern or behavior of a system. For this study, the nearest 10 points were used to ensure a smooth transition from one area to the next while discouraging the effects of outlying points. A test was run using a variation of the number of nearby points between 1 and 50, and little change was noted in the rainfall volumes across the state when using greater than 5 nearby points.

Fit Distribution

The estimates of maximum rainfall depths for different return periods are obtained using the statistical technique of frequency analysis. The return period (T) for a rainfall

event is found from the annual exceedence probability (P) of a maximum event by the equation $T = 1/P$. In order to determine the exceedence probability and return period, an appropriate probability distribution must be fitted to sample data through one of the statistical procedures. Selection of a probability distribution was determined by related research and upon a review of the applicable literature. A study similar to this study was conducted in 1994 for shorter duration storms of 15 minutes to 24 hours (Eaglin, 1994).

The same raw data that was used in this study was used in the Eaglin study. Twenty-five sites were fit to six probability distributions commonly used for hydrologic predictions: Gumbel Type I, Pearson Type III, Log Pearson Type III, Normal, 2 Parameter Log Normal, and 3 Parameter Log Normal distributions. Two mathematical methods were used to fit each of the distributions, the method of moments (MOM) and the maximum likelihood procedures. The 2 Parameter Log Normal and the Log Pearson Type III distributions gave the best fit for the NOAA data, and the Log Pearson distribution was ultimately chosen for the Eaglin study and this study.

The Gumbel Type I distribution is also known as the extreme value distribution, the Fisher-Tippet Type I distribution, and the double exponential distribution. The Gumbel Type I distribution has been used for rainfall depth-duration-frequency studies (Hershfield, 1961). The probability density function is given by the equation:

$$p_x(x) = \frac{1}{\alpha} \exp \left\{ \frac{\mp(x-\beta)}{\alpha} - \exp \left[\frac{\mp(x-\beta)}{\alpha} \right] \right\} \text{ where } -\infty < x < \infty \text{ and } (-) \text{ applies for}$$

maximum values, (+) for minimum values, and where α = scale parameter of the

distribution $\left(\alpha = \sqrt{\frac{\text{Variance}}{1.645}} \right)$ and $\alpha > 0$, and where $\beta = \text{mode of the distribution}$

$(\beta = \bar{x} - 0.5772\alpha)$ and $-\infty < \beta < \infty$. However, this distribution has some properties which are not appealing for rainfall prediction (Rao, 1988). It inherently has a constant skewness coefficient of 1.1396 when predicting maxima (-1.1396 minima) and its lower bound extends to $-\infty$. Many rainfall records can be found with coefficients of skewness different than 1.14 and in fact may change with time. Additionally, extending the probability density curve to $-\infty$ implies the impossible existence of negative rainfall data.

The most widely used distribution in general is the Normal distribution. The Normal distribution is a two parameter probability density function given by:

$$p_x(x) = \frac{1}{\sigma\sqrt{2\pi}} \exp\left(-\frac{(x-\mu)^2}{2\sigma^2}\right) \text{ where } -\infty < x < \infty \text{ and } \mu = \text{mean of the sample, } \sigma = \text{the}$$

standard deviation of the sample. The Normal distribution is bell-shaped, continuous, and symmetrical about the mean μ . Like the Gumbel distribution, the Normal distribution has undesirable properties when evaluating precipitation such as a constant zero skewness coefficient and a probability density curve extending to $-\infty$.

The Central Limit Theorem states that if a variable X is the sum of many small effects, then X can be expected to be normally distributed. Similarly, if X is equal to the product of many small effects, then the $\ln(X)$ can be expected to be normally distributed. The 2 Parameter Log Normal distribution is thus written as:

$$p_x(x) = \frac{1}{x\sigma\sqrt{2\pi}} \exp\left(-\frac{(\ln x - \mu)^2}{2\sigma^2}\right) \text{ where } \mu \text{ is the mean of the natural logarithm of } x$$

and σ is the standard deviation of the natural logarithm of x . The 3 Parameter Log Normal distribution can be found by substituting $\ln(x - a)$ where a is an offset parameter for $\ln(x)$ in the 2 Parameter Log Normal equation. The skewness coefficient for the log normal distribution can be found by the equation $\gamma = 3C_v + C_v^3$. Thus the Log Normal distribution is positively skewed with the skew decreasing as the coefficient of variation decreases and vice versa. Because of its simplicity and the fact that many hydrologic variables are bounded by zero on the left and positively skewed, the Log Normal distribution has been used widely in hydrology.

The Pearson Type III distribution has found application in hydrology, especially in the prediction of flood peaks. The Pearson distribution equation is:

$$p_x(x) = p_o \left(1 + \frac{x}{\alpha}\right)^{\frac{a}{\delta}} e^{-\frac{x}{\delta}} \text{ where } \delta \text{ is the difference between the mean and the mode}$$

($\delta = \mu - X_m$), X_m is the mode of population x , p_o is the value of $p(x)$ at the mode, and α is the negative of the lower bound of the distribution. Similarly, the Log Pearson Type III distribution can be found by substituting the natural log of the data $\ln(x)$ into the Pearson equation for the value x . When the skewness coefficient is equal to zero, the equation is equivalent to the Log Normal distribution.

Critical Duration Storm Event

The concept of critical duration rainfall storm events continues to be explored by the Florida Department of Transportation (FDOT). The basic principles are simple: the worst case storm event for a given area in terms of required storage may not be short duration, high intensity storms but instead may be longer duration (1 - 10 days) storms. Although most of the current design criteria requiring the use of an inflow hydrograph uses a design storm of specific duration and frequency (i.e. 100 year, 24 hour storm event), this criteria has been acceptable in the past because they give conservative estimates and tend to overdesign. However, the response of individually designed drainage systems fail under different types of rainfall events and could result in flooding at an unacceptable frequency.

Design based on critical duration addresses some of the shortcomings of the present use of standard design storms. Critical duration analysis basically involves analyzing a drainage or detention system under several different storm durations to determine which duration is the critical one (produces the largest volume or peak flow). Use of a critical duration design criteria should result in a more tailor made system design based on the computed durations and result in fewer flooding events.

CHAPTER 3

RAINFALL DATA PROCESSING

Rainfall Stations

Development of 1, 2, 3, 4, 7, and 10 day duration storm event constant volume (isophrival) values for various duration periods for the state of Florida consisted of many steps. The first step involved obtaining the raw rainfall data for the State of Florida for processing. Rainfall data were provided by the National Oceanic and Atmospheric Administration (NOAA) in computer compact disc format by EarthInfo, Inc. (1989). Hourly recorded data were exported from the compact discs in text file (.txt) format. Many stations also included separate 15 minute data, but these data were not used since in many of the 15 minute rainfall data files the data were not consistent with the 1 hour data, were not available for all stations, and had far more instances of absent data readings due to the required frequency of data recording. Some of the rainfall stations contained only a few years of recorded data and were not used in this analysis. The following stations, namely Andalusia, Deland, Lisbon, Tamiami Trail, Trail Glade, and Valdosta, were not used because of the obvious nonconformity with nearby stations for all return periods. Only stations which appeared grossly out of synchronization with its nearby stations were eliminated. A total of 56 rainfall stations (shown in Figure 3.1 and listed in Table 3.1)

were used including several from southern Georgia and Alabama. The entire state was well represented with rainfall data, from Pensacola to Jacksonville to Key West.

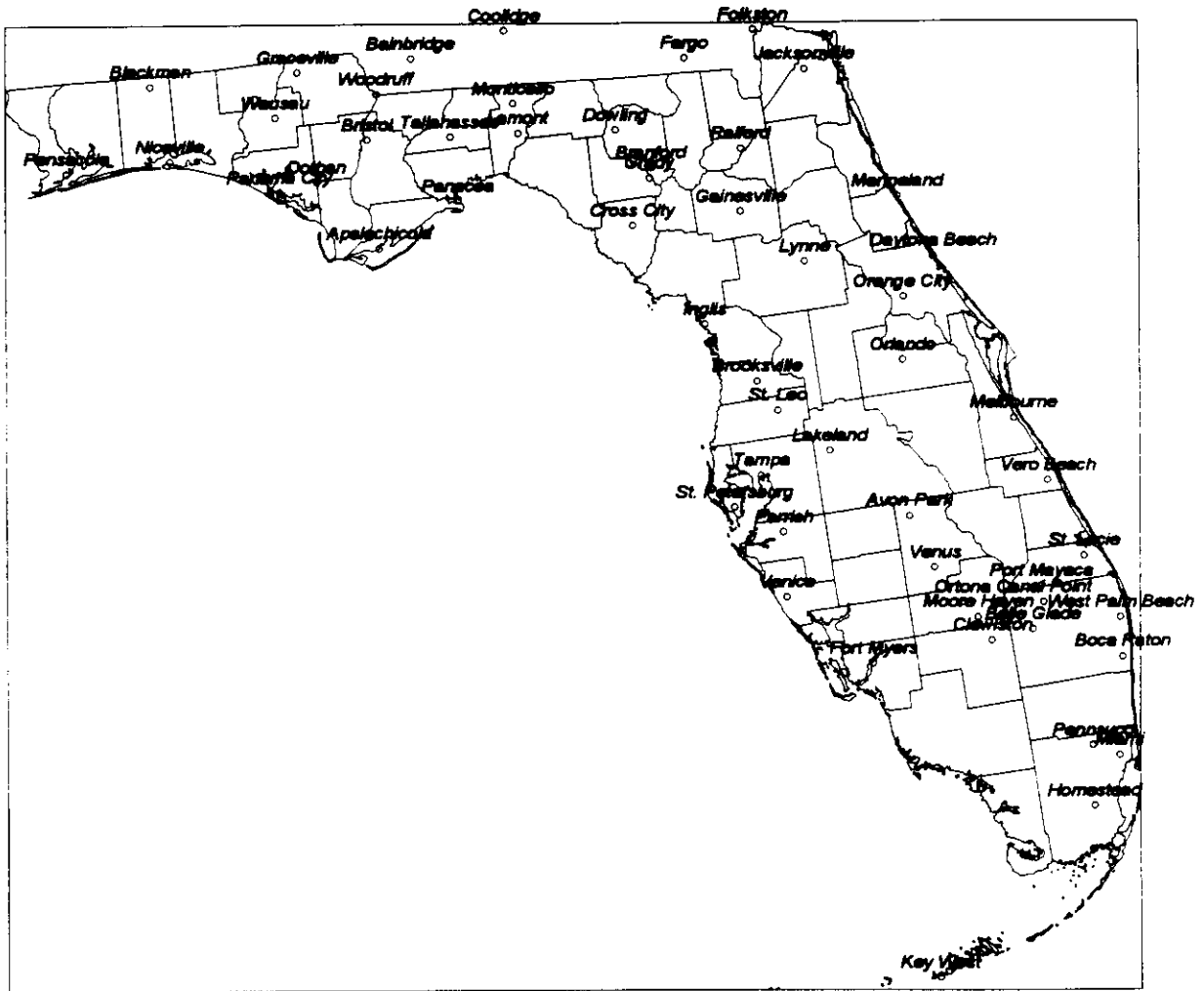
Table 3.1 Rainfall Stations and Number of Years of Data

Apalachicola	49	Avon Park	49	Bainbridge	13	Belle Glade	49
Blackman	49	Boca Raton	49	Branford	17	Bristol	49
Brooksville	46	Canal Point	49	Clewiston	44	Coolidge	44
Cross City	49	Daytona Beach	49	Dothan	18	Dowling	47
Fargo	43	Folkston	43	Fort Myers	31	Gainesville	48
Graceville	49	Grady	32	Homestead	49	Inglis	49
Jacksonville	41	Key West	33	Lakeland	48	Lamont	30
Lynne	49	Marineland	49	Melbourne	49	Miami	41
Monticello	19	Moore Haven	49	Niceville	41	Orange City	47
Orlando	40	Ortona	49	Panacea	49	Panama City	49
Parrish	47	Pennsuco	49	Pensacola	23	Port Mayaca	49
Raiford	42	St. Leo	47	St. Lucie	49	St. Petersburg	45
Tallahassee	32	Tampa	28	Venice	49	Venus	49
Vero Beach	49	Wausau	26	W. Palm Beach	49	Woodruff	35

Figure 3.2 Orlando Rainfall Station Hourly Data Example

FL,6638,3,in,08/31/1942,,	0.01,,0.01,,0.01,,0.02,,0.12,,0.23,,0.03,,	0.43,,
FL,6638,3,in,09/01/1942,0.00,,		0.00,,
FL,6638,3,in,09/02/1942,,	0.11,,0.18,,0.25,,0.04,,	0.02,,0.60,,
FL,6638,3,in,09/03/1942,,	0.24,,0.12,,0.05,,0.03,,	0.44,,
FL,6638,3,in,09/08/1942,,	0.47,,0.06,,0.02,,0.01,,	0.56,,
FL,6638,3,in,09/09/1942,,	0.04,,	0.04,,
FL,6638,3,in,09/12/1942,,	0.01,,	0.01,,
FL,6638,3,in,09/23/1942,,	0.28,,0.06,,	0.34,,

Figure 3.1 Rainfall Stations Used In This Study



An example of the raw data provided by the NOAA is shown in Figure 3.2. Data for each hour (rainfall volume in inches) are separated by a comma before and after the data, where a period indicates that no rainfall was recorded for that hour. In some cases, a dash (-) appeared between commas. This indicates that the rainfall data was not recorded for that hour. When the rainfall volume is finally recorded, it is preceded by the letter "A" to indicate that this volume includes all of the previous sequential hours that had no data recorded.

Parsing Rainfall Data

The next step in the processing of the information was to parse the data records into annual series events to determine the worst case storm event for every year at each duration for every city. A software program named RAINFALL PARSER written by Ronald D. Eaglin, Ph.D., (1994) was used to parse the rainfall records. The program was written to parse rainfall events for durations between 0.25 and 72 hours. Since this investigation concerned rainfall events up to 10 days in duration, the program was modified to accept 4, 7, and 10 day (240 hours) storm events by encoding the source code using the Windows programming language Visual Basic.

Data parsing is a process that involves analyzing a series by breaking it up into smaller components. The RAINFALL PARSER program uses a window segment of various durations from 0.25 hours to 240 hours. For 1 hour rainfall records, as used in this study, the minimum window size is 1 hour. The rainfall data parser moves through the rainfall records in 1 hour increments and determines the total rainfall volume for that

duration. The maximum volume recorded for each duration is recorded for each year.

For example, for a 2 day (48 hour) storm duration the parsing program will examine every consecutive 48 hour period during the whole year in 1 hour increments and store the maximum volume event for that year, and repeats this process for every year of record.

Figure 3.3 shows the output for the parsing portion of RAINFALL_PARSER.

Figure 3.3 RAINFALL_PARSER Data Parsing Output

Rainfall Parser															
File	Format	Parse	Analyze												
Input File: C:\RAINFALL\CITIES\1HOUR\ORLANDO.TXT															
	25	5	1	2	4	6	10	12	24	36	48	72	96	168	240
1942			1.1	1.1	1.3	1.4	1.7	1.9	2.0	2.0	2.0	2.0	2.3	2.5	2.5
1943			1.7	1.8	1.9	1.9	1.9	1.9	2.8	2.8	3.1	3.1	3.9	4.4	4.4
1944			3.1	3.5	4.3	4.7	5.8	6.1	7.7	7.9	7.9	7.9	7.9	7.9	7.9
1945			2.6	3.4	5.1	6.0	7.0	7.6	9.7	10.1	11.1	11.1	11.1	11.1	11.1
1946			2.5	3.2	3.3	3.5	3.5	3.5	4.4	4.4	4.5	4.8	5.0	6.1	7.4
1947			2.7	4.0	4.1	4.1	4.1	4.1	4.1	4.3	4.7	5.3	7.0	7.8	8.9
1948			1.8	1.9	2.2	3.3	4.0	4.1	5.4	5.8	6.1	6.2	6.2	6.2	6.2
1949			2.2	2.6	2.6	2.8	3.4	3.5	5.3	5.6	5.6	5.7	5.7	5.7	5.7
1950			2.0	2.2	3.1	4.0	4.8	4.8	7.7	10.8	12.0	14.1	14.2	14.2	14.2
1951			2.5	2.7	2.7	2.7	2.8	2.9	4.0	4.4	4.6	5.2	5.8	6.2	6.2
1952			1.6	1.9	2.1	2.2	2.2	2.2	3.1	3.9	4.1	4.2	4.2	4.2	4.2
1953			1.5	2.0	2.2	2.4	2.9	2.9	3.0	3.0	3.1	3.9	4.0	5.1	5.9
1954			2.4	2.6	2.6	2.6	2.9	3.1	3.3	3.4	5.2	5.7	6.3	6.3	6.3
1955			1.6	2.1	2.1	2.1	2.1	2.1	2.5	3.0	3.0	4.2	4.2	4.5	4.5
1956			1.8	2.0	2.1	2.7	3.3	3.7	5.6	6.4	6.5	6.7	6.7	6.9	6.9
1957			1.3	2.1	2.6	3.0	3.0	3.0	3.7	4.0	4.3	4.6	4.8	5.7	5.7
1958			3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.7	3.7	4.2	4.8	7.6	8.1

Rainfall Distribution Analysis and Prediction

After the rainfall data have been parsed and the yearly worst case storm events found, a fit distribution was found using the Analyze function of the RAINFALL PARSEER program (Figure 3.4). Any combination of return periods may be used for analysis by entering the probability of return under the Return Period menu (i.e. 0.998 probability = 500 year return period). The program also allows the choice of analysis method and equations used. The options are Log-Pearson or Log-Normal distribution and the four equations: $Y = \frac{a}{(b + D)^n}$, $Y = a(RP)^m(D)^n$, $Y = aD^n$, or $Y = a(RP)^m(b + D)^n$.

For this study, Log-Pearson distribution and the first equation were used since rainfall events in Florida are usually skewed to the right, appeared to have the best distribution fit, and is consistent with other related works (Linda Eaglin, 1995 and Harry Dowling, 1994).

The results from the RAINFALL PARSEER fit distribution showed that the rainfall volume predictions for long duration (>3 days) and long return period (>50 years) storm events were not always consistent with expected results. In many instances the long duration, long return period storm events had slightly lower rainfall volumes than lower duration storm events. For example, Table 3.2 shows the fitted distribution for Tampa, Florida. Note how the 100 year return period storm volumes for the 10 day duration storms were less than the volumes for the 7 day duration storms. This is physically impossible since the worst case 10 day storm must have a volume equal to or

Array of Predictions												
	0.25	0.50	1.00	2.00	4.00	6.00	10.00	12.00	24.00	36.00	48.00	72.00
500			6.49	9.47	9.72	5.97	8.51	8.66	9.05	10.20	10.94	10.29
200			5.69	8.02	8.41	5.85	7.91	8.08	8.78	9.93	10.64	10.18
100			5.11	7.02	7.47	5.72	7.41	7.59	8.51	9.63	10.32	10.03
50			4.55	6.09	6.57	5.53	6.86	7.05	8.16	9.25	9.90	9.79
25			4.00	5.22	5.70	5.28	6.25	6.44	7.71	8.75	9.34	9.43
10			3.28	4.14	4.58	4.79	5.34	5.52	6.89	7.82	8.33	8.66
5			2.73	3.36	3.74	4.24	4.53	4.69	6.02	6.81	7.23	7.72
3			2.31	2.79	3.11	3.67	3.82	3.96	5.16	5.81	6.14	6.68
2			1.94	2.31	2.56	3.04	3.15	3.25	4.24	4.73	4.97	5.49
Points												
0	0.25	0.50	1.00	2.00	4.00	6.00	10.00	12.00	24.00	36.00	48.00	72.00
500			6.49	4.73	2.43	1.00	0.85	0.72	0.38	0.28	0.23	0.14
200			5.69	4.01	2.10	0.98	0.79	0.67	0.37	0.28	0.22	0.14
100			5.11	3.51	1.87	0.95	0.74	0.63	0.35	0.27	0.21	0.14
50			4.55	3.04	1.64	0.92	0.69	0.59	0.34	0.26	0.21	0.14
25			4.00	2.61	1.43	0.88	0.63	0.54	0.32	0.24	0.19	0.13
10			3.28	2.07	1.15	0.80	0.53	0.46	0.29	0.22	0.17	0.12
5			2.73	1.68	0.94	0.71	0.45	0.39	0.25	0.19	0.15	0.11
3			2.31	1.40	0.79	0.61	0.38	0.32	0.21	0.16	0.12	0.09

Figure 3.4 RAINFALL PARSER Fit Distribution Screen

greater than the worst case 7 day storm. This problem occurred for 19 of 56 of the return periods greater than 50 years (almost always at the 500 year return period). This inaccuracy appears to be due to insufficient data to accurately project the long return period storm volumes.

Smoothing the Prediction Curves

Due to the inconsistency between storm volumes of different duration at the same return period, an equation was developed as an empirical fit to smooth the predicted

Table 3.2 Tampa, Florida Initial Fitted Distribution

Return Period (years)	4 Day Storm Volume (inches)	7 Day Storm Volume (inches)	10 Day Storm Volume (inches)
100	20.25	19.84	19.75
50	17.05	17.12	17.16
25	14.24	14.63	14.75
10	11.01	11.62	11.80
5	8.84	9.50	9.68
3	7.35	7.97	8.13
2	6.17	6.70	6.83

volumes. These smoothing curves ensure that all of the predicted storm volumes have a logical and smooth progression between duration and return periods. To find the best fit and most logical empirical smoothing curve, the computer software program KURV+ (Conrad Button's Software, 1993) was used. This program is a statistical analysis program with three mathematical modules. The Curve Fitting module was used to process the data points representing rainfall volumes to determine the coefficients for 25 mathematical equations (see Table 3.3).

Each city's predicted rainfall data were curve fitted to the 25 equations for 2, 5, 10, 25, 50, and 100 year return periods. Equation coefficients and correlation coefficients were computed for each city at each return period (336 sets total). One equation from the 25 was chosen as a smoothing curve. The same equation was chosen for every city at every duration to ensure consistency in the prediction method. The equation used was $Y = a + b \cdot \ln X$ where X is the storm duration event in hours, Y is the predicted rainfall volume, and "a" and "b" are equation coefficients determined by the software program to

Table 3.3 25 Mathematical Equations Investigated For Empirical Curve Fitting

1. $Y = a + b \cdot X$	14. $Y = b \cdot X$
2. $Y = 1/(a + b \cdot X)$	15. $Y = a + b \cdot X + c/X$
3. $Y = a + b/X$	16. $Y = X/(a \cdot X + b)$
4. $Y = a + b/X + c/X^2$	17. $Y = a + b \cdot X + c \cdot X^2$
5. $Y = a \cdot X + b \cdot X^2$	18. $Y = a \cdot X^b$
6. $Y = a \cdot b^X$	19. $Y = a \cdot b^{(1/X)}$
7. $Y = a \cdot X^{(b \cdot X)}$	20. $Y = a \cdot X^{(b/X)}$
8. $Y = a \cdot e^{(b \cdot X)}$	21. $Y = a \cdot e^{(b/X)}$
9. $Y = a + b \cdot \ln X$	22. $Y = 1/(a + b \cdot \ln X)$
10. $Y = a \cdot b^X \cdot X^c$	23. $Y = a \cdot b^{(1/X)} \cdot X^c$
11. $Y = a \cdot e^{((X - b)^2/c)}$	24. $Y = a \cdot e^{((\ln X - b)^2/c)}$
12. $Y = a \cdot X^b \cdot (1 - X)^c$	25. $Y = a \cdot (X/b)^c \cdot e^{(X/b)}$
13. $Y = 1/(a \cdot (X + b)^2 + c)$	Where a, b, and c are equation coefficients, X = duration (hours), Y = volume (inches)

represent the "best fit." This equation consistently owned one of the highest correlation coefficients, usually well above 90%. Appendix C contains the coefficients "a" and "b"

for each city at each return period (336 sets total). With these equations, prediction of the listed cities' rainfall volumes at any of the six return periods (2, 5, 10, 25, 50, or 100 years) for any duration greater than one hour can be predicted by using the "a" and "b" values and the equation $Y = a + b \cdot \ln X$, including intermediate duration storms (e.g. 5 day or 9 day storm events).

The result of using this smoothing curve is that the traditional rainfall volume-duration curve $Y = \frac{a}{(b + D)^n}$ (where D = storm duration, Y = storm volume, and "a", "b", and "n" are equation coefficients) is projected into the future using a log Pearson fit distribution and smoothed by a logarithmic curve. Although this is less conservative in some of the predictions, in most cases this is more conservative since in most cases the predicted values for long duration, long return period storms were not as large in volume as expected when compared to the lower duration, lower return period storms for the same city.

Figure 3.5 is a graph showing the relationship between the predicted storm volume values from the Log Pearson fit distribution and the predicted smoothed curve output using the smoothing curve for West Palm Beach - 100 year return period. These curves are typical of the relationship between the smoothing curve and the fit distribution output curve. In this case the smoothing curve compensates for somewhat erratic predictions for the 10 to 24 hour duration storms and has an overall correlation coefficient of 0.94.

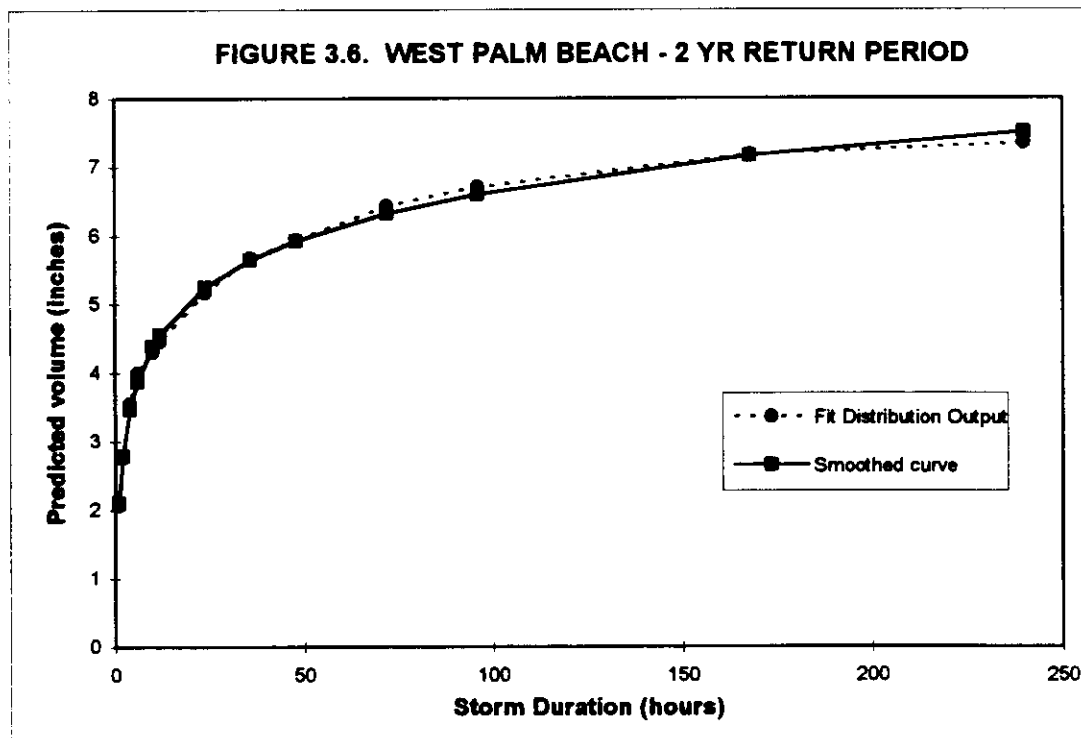
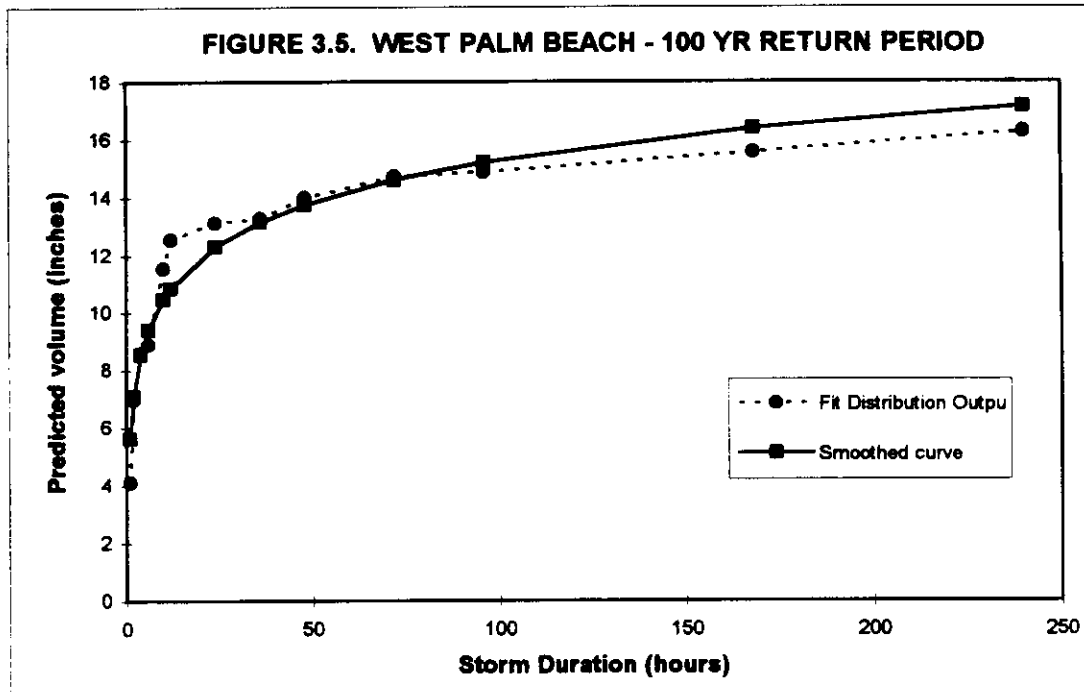


Figure 3.6 contains similar curves for West Palm Beach for the 2 year return period. These curves are representative of the vast majority of the cities in that the lower return period prediction curves are closer to the fit distribution output curves than those for the higher year return periods. For Figure 3.6 the correlation coefficient is a much higher one at 0.997. The shorter return period prediction curves should tend to be more accurate since there are more events on which to base the predictions.

An example curve fitting for Canal Point - 25 year return period using the KURV+ program is shown in Figure 3.7. The smoothed curve output rainfall volumes for 1, 2, 3, 4, 7, and 10 day durations generated by the KURV+ program for each city predicted for 2, 5, 10, 25, 50, and 100 year return periods are summarized in Appendix B. The smoothed output volumes in Appendix B shows a logical progression with increasing storm duration and increasing return period, thus the smoothing curve used is reasonable.

Using SURFER to Grid and Contour

Contour maps of constant rainfall volumes (isophuvial maps) were developed using the software program SURFER (Golden Software Inc., 1989). SURFER is a two and three dimensional plotting graphics program that generates contour curves from inputted XYZ data. The software program interpolates irregularly spaced XYZ data into a regularly spaced grid and produces contour maps or surface plots.

The progression from rainfall predicted data at various locations throughout Florida to a finished contour map involved many steps. The first step was the creation of

an XYZ data file. This file lists the coordinates of the location of the data point (city) for the X and Y data and the volume of rainfall at that site for the Z data. The data file was

Figure 3.7 Sample Curve Fitting Output From KURV+

KURV for Windows				
File	Edit	Help		
Data Table Editor	Equations	Equation Coefficients		
		a	b	c
Correlation Coefficient				
		5.357185	.0260731	.
		.	.0628619	.
		.2026028	-.000621	.
		6.474310	.0189253	-4.21780
		7.884772	-6.34333	.
		.1271402	.2401359	.
		8.619054	-18.7982	13.34997
		4.454981	.0748512	-.000222
		.1725038	-.000574	.
		3.307415	.2209814	.
		5.161966	1.003864	.
		7.809945	.3094029	.
		5.378881	.0006614	.
		7.959075	-1.50143	.
		5.161966	.0038571	.
		7.809945	-1.17311	.
		2.765816	1.353596	.
		.2864209	-.039662	.
		3.122514	.9988585	.2614869
		3.944097	.7356752	.1795282
		11.77363	159.2296	-25841.3
		12.36302	8.659530	-52.9526
		.	.	.
		.0000072	-152.837	.0644841

created externally in Microsoft Excel, but could have been created as a Lotus file, ASCII file, or created in the SURFER program itself. The X and Y coordinates used for the input are albers conic projection coordinates converted from latitude and longitude using the Geographic Information System (GIS) PC ARC/INFO by ESRI (Environmental Systems Research Institute, Inc., 1990). The PROJECT command converts projections from one coordinate system to another. Since the AutoCAD drawing of Florida used for

the background of the contour maps was digitized from a map using albers conic projection, the coordinates of the cities used for rainfall stations were converted from latitude and longitude geographic coordinates to albers coordinates. Two parallels (lines of latitude) and a central meridian are used to define the albers projection. The latitude lines define what type of distortion that the coordinates must compensate for between the three-dimensional earth and the two-dimensional map. For example, the distance between lines of longitude are much closer to each other near the north pole than near the equator.

An example of the input to the SURFER program is shown on the first page of Appendix B. Since SURFER is a grid based contour program, a grid file must be generated from the data. A grid is a rectangular region comprised of rows and columns. The intersection of a row and column is a grid node, and gridding generates a Z value (rainfall volume in this case) by interpolating or extrapolating the data values using one of several gridding methods. Gridding methods produce a regularly spaced array of Z values from irregularly spaced XYZ data.

Contour maps and three dimensional surface plots require data in a uniformly spaced grid before they can be generated. The GRID module of SURFER performs the gridding based on the XYZ data file input and functions selected by the user, such as type of gridding method, grid size, and search method. A gridding procedure is used to take randomly spaced data and apply one of several interpolation methods to form a regularly spaced grid. There are several types of gridding methods used for interpolation, including kriging, inverse distance, and minimum curvature and are explained in Chapter 2. For

this study, the kriging method was used for data extrapolation, interpolation, and smoothing.

The size of the grid used can be varied from a 10 x 10 grid to a 100 x 100 grid with 25 x 25 being the default. Visual observation showed little difference between a 25 x 25 grid and a 100 x 100 grid, except that processing time increased from seconds to minutes and the 100 x 100 grid was slightly smoother. A 50 x 50 grid was used for the development of the curves.

To create a contour map, the TOPO module of the SURFER program was used. A contour map is a two dimensional representation of three dimensional data. The first two dimensions are the X and Y location coordinates and the third Z (rainfall volume) is represented by contour lines of equal value. The TOPO module not only creates a contour map, but also allows customization of the representation of the topographical features. The contour interval between contour lines was varied depending upon the return period and storm duration length. Higher duration, higher return period storms (e.g. 100 year return period - 10 day storm) were given a contour interval of 2 inches whereas shorter duration, shorter return period (e.g. 2 year return period - 1 day storm) were given a contour interval of 0.5 inches to make the maps easier to read and use. The contour lines were set such that every line was a labeled solid line. The map border and side tics were removed and the contour line labels were sized appropriately. The contour lines were smoothed using the Smoothing option. This introduces a spline smoothing interpolation to the contour lines to round out the straight line segments along the contour

lines. Since a large number of grids (50 x 50) were used, this smoothing actually had little noticeable effect on the appearance of the contour lines.

Isopluvial Curve Development

After the contour lines were developed by the TOPO module, an output plot file was generated by the PLOT module of SURFER. The PLOT module was used to position and scale the map and create a plot file. In addition, a DXF file was generated as a file output to be used later with AutoCAD Release 12 (Autodesk Inc., 1993).

The final output for the isopluvial curves was accomplished by importing the DXF output file from SURFER into an AutoCAD drawing of Florida. The resulting maps were further refined by eliminating isopluvial curves over the waters outside of Florida (e.g. in the Gulf of Mexico) while ensuring that the contour lines remain labeled. The maps were then scaled and positioned to conveniently fit a piece of typing paper. The final Florida 1, 2, 3, 4, 7, and 10 day isopluvial maps for 2, 5, 10, 25, 50, and 100 year return periods are shown in Appendix A. These curves, on the average, yield a slightly lower maximum storm volume for all storm durations and return periods when compared to the isopluvial curves developed in Figures 5-13 through 5-17 in the Florida Department of Transportation Drainage Manual. The trends are similar between the curves except in the area of the Florida Keys, where this work reveals higher rainfall volumes on average. This work reveals a more detailed and current look at the rainfall volume versus duration and return period for the State of Florida.

CHAPTER 4

RESULTS

The results of this study are presented in the appendices. Appendix A contains the isopluvial maps for the State of Florida for 1, 2, 3, 4, 7, and 10 day duration storms at return periods of 2, 5, 10, 25, 50, and 100 years for a total of 26 contoured maps. A summary of storm event volumes for each city is presented in Appendix B. The mean annual and maximum rainfall volume storm events for various duration storms for Florida cities is exhibited in Appendix C and a numerical comparison between the results of this study and the results from TP-40 and the water management district studies is shown in Appendix D.

Comparison With Previous Studies

Development of 1, 2, 3, 4, 7, and 10 day duration storm event constant volume (isopluvial) values for various duration periods for the state of Florida yielded slightly lower results than expected when compared to those of the U. S. Weather Bureau's Technical Paper No. 40 (Hershfield, 1961). However, it will be shown that when compared to the results from the individual water management district studies, the results of this study are much more similar in predicted value.

U. S. Weather Bureau's Technical Paper No. 40

One of the standards for rainfall prediction for the past 34 years has been the U.S. Weather Bureau's Technical Paper No. 40 (TP-40) published in 1961. This paper generated a series of maps and diagrams estimating precipitation contour values for the whole United States for durations from 2 to 10 days and for return periods from 2 to 100 years. Daily precipitation amounts from 94 stations throughout the United States (including the cities Miami and Jacksonville from Florida) were analyzed for their worst case storms for durations of 1 day to 10 days. These daily recorded data were used for the basis of conversion factors for adjusting the 1 day and 10 day storm event values into intermediate duration storm events for an additional 276 stations (7 in Florida). Thus a total of 9 rainfall stations (Apalachicola, Daytona Beach, Fort Myers, Jacksonville, Miami, Orlando, Pensacola, Tampa and West Palm Beach) were used to represent Florida.

As a comparison, this study used 56 weather stations with hourly data from Florida and analyzed each station for all return periods. For TP-40, the rainfall values for the recorded 1 day through 10 day durations were measured on an observational day basis and were converted to an hourly basis using a conversion factor. For example, the worst case 2 day storm observed was determined from adding two successive daily rainfall data and multiplying by 1.04 to convert it to a worst case 48 hour storm (any 48 successive hours). This study used a computer program to evaluate each storm duration of interest (for example, 96 hours) on an incremental basis for the entire year at one hour increments.

For TP-40, a return period diagram for Miami and Jacksonville was constructed for each storm duration such that their values for return periods of 2 through 100 years would plot as a straight line on extreme value or log-normal probability paper. This implies the use of an extreme value or log-normal prediction equation. For the other seven state-wide locations, the 2 year 24 hour storm was plotted and a family of curves parallel to those of Miami and Jacksonville were drawn. In contrast, this study used a 3-parameter log-Pearson prediction equation applied directly to the data for each of the 56 stations. TP-40 did not use the third moment (skewness) because of a belief that records much less than 50 years are too short to provide accurate statistics beyond the first moment (central tendency of the distribution) and the second moment (dispersion of the distribution). Since a skewness factor was not used, the interpretation of the data can be very different from the case where a skewness factor was used. For example, if the Gumbel distribution was used in TP-40 as suggested by the literature, a fixed skewness factor of 1.14 was probably used, and the predicted multiplier value for the 100 year return period storm is approximately 3. Thus if the mean annual rainfall volume is 5 inches, the 100 year return period storm would be $5 \times 3 = 15$ inches. The skewness factor for Miami for the 24 hour duration storm event is 2.291 (Eaglin, 1995). The multiplier factor for a 100 year return period storm is 3.75 and the volume for the 1 in 100 year storm event is $5 \times 3.75 = 18.75$ inches, a difference of 3.75 inches. In several cases (such as Pensacola), the skewness factor was much less than 1.14 and approached zero. In this case, the predicted multiplier would be about 2.3 if skewness was taken into account.

Thus the predicted 100 year return period storm would be $5 \times 2.3 = 11.5$ inches, a difference of 3.5 inches.

The 2 day to 10 day rainfalls were estimated from the principal stations (Miami and Jacksonville for Florida) for the majority of rainfall stations for TP-40 because of the amount of labor and cost for processing data for durations in excess of 24 hours. Instead, a nomograph type graph was constructed to determine the 2 year 10 day volumes for each rainfall station. The parameters used as axes on the nomograph to estimate the 2 year 10 day precipitation were the 2 year 24 hour rainfall, the 2 year 1 hour rainfall, and the rainfall station's latitude in degrees. Latitude was used for geographic smoothing, making the volume of rainfall for a 2 year 10 day storm greater in the northern latitudes than the southern latitudes for the same 2 year 1 hour and 2 year 24 hour storms. A working map was prepared indicating the 100 year to 2 year ratio for the 10 day rainfall volumes for the whole country. The ratio varied from about 1.8 to 3.0 with an average ratio of about 2.2. The 100 year 10 day values were then calculated for the grid points by multiplying the values from the 2 year 10 day map by the values from the 100 to 2 year ratio map. The 100 year 10 day volumes were then converted to intermediate storm duration volumes by interpolating between the 1 day and 10 day storms on a duration interpolation diagram, and converted to longer return periods by using a return period interpolation diagram. This study was not constrained by the large volume of data because of the use of a computer to process the data. Interpolations and extrapolations using graphs and diagrams were not required since the prediction equations were applied to each city's set

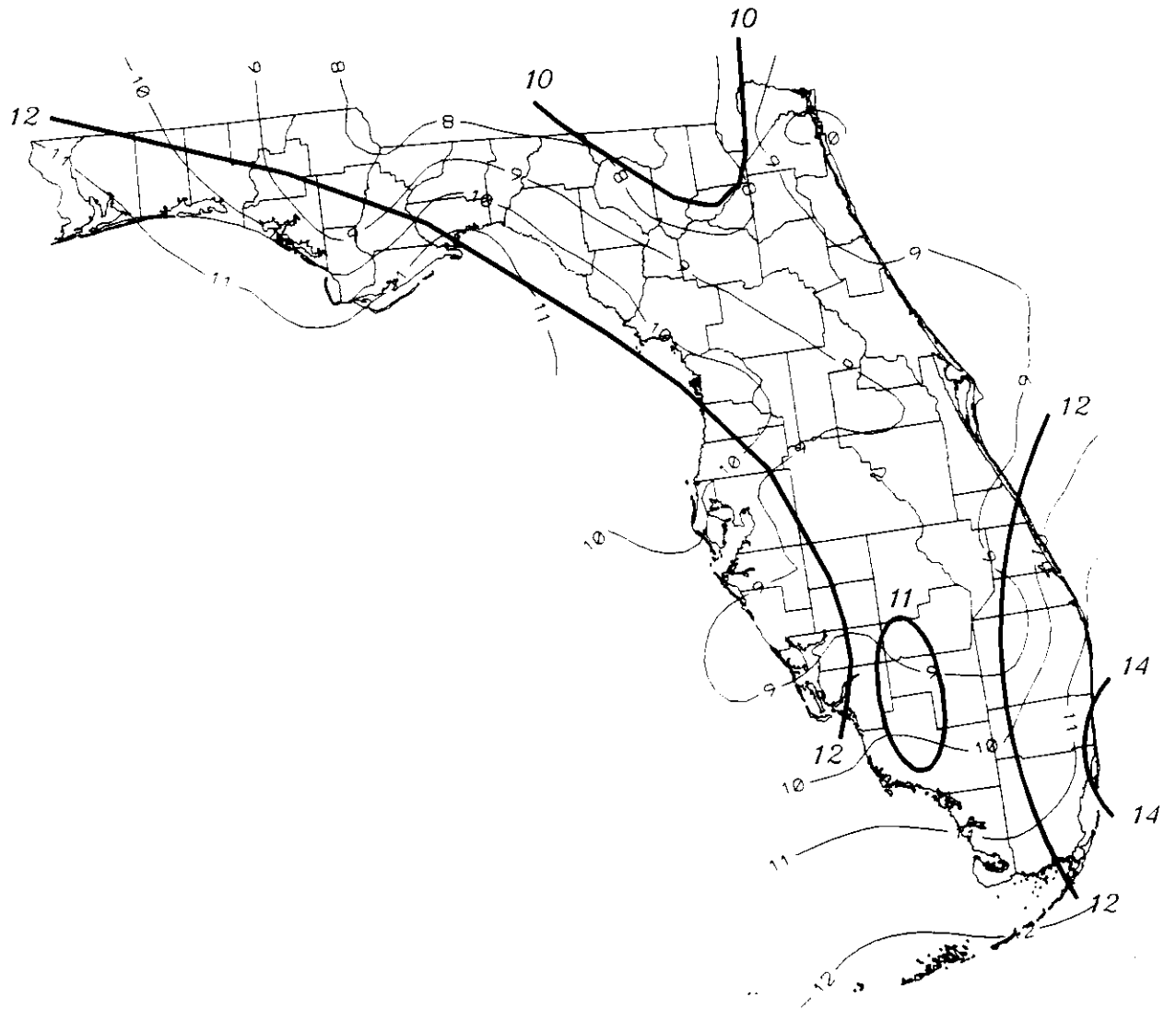
of rainfall data. As seen in Figure 4.1 and using the 10 year 7 day storm as an example, the rainfall volumes from this study are slightly lower in most areas of the state. A summary comparing TP-40 to this study is shown in Table 4.1.

Table 4.1

Summary of Analysis Technique Differences Between This Study and TP-40

TP-40	This Study
Study conducted in 1961	Study conducted in 1995
2 stations (Miami and Jacksonville) used for return period-interpolation diagrams	56 stations computer analyzed on hourly basis for all durations and return periods
Database consisted of approximately 49 years of record for 2 stations, 20 years of record for other 7 stations for a total of 9 stations for the State of Florida	Average of 45 years of record for 56 stations
Typical period of record: Miami, Jacksonville: 1912 - 1961 Other 7 stations: 1941 - 1961	Typical period of record: 1945 - 1990 (should be more accurate data due to modern rainfall recording instrumentation)
Daily recorded rainfall records	Hourly recorded rainfall records
Fixed skewness distribution used for prediction - Extreme Value (Gumbel) or Log Normal	Variable skewness distribution used for prediction - Log Pearson
Rainfall volumes for durations other than 1 day based on straight-line curve developed using factors from the two representative stations	Rainfall volumes for all durations at each return period for each station developed independently using the Log Pearson distribution
Curve smoothing drawn by hand	Curve smoothing, gridding, and data interpolation/extrapolation done using a computer generated Kriging technique

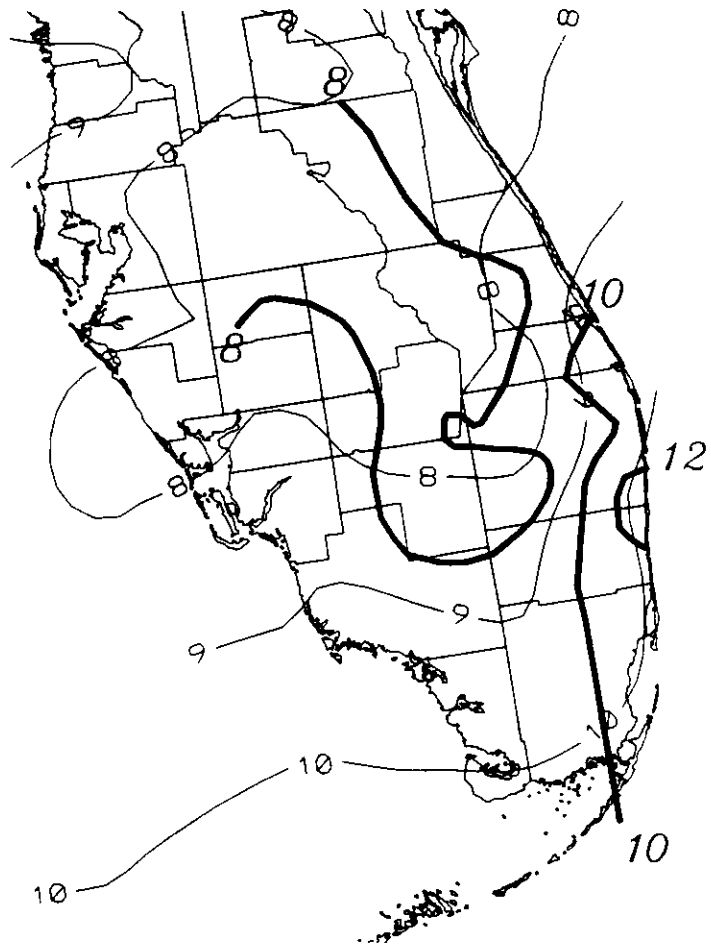
Figure 4.1 Comparison Between This Study (thin lines) and U. S. Weather Bureau's Technical Paper No. 40 (bold lines) for the 10 Year 7 Day Storm Event



South Florida Water Management District

A more recent study was conducted for the one and three day maximum rainfall events for central and southern Florida by the South Florida Water Management District (Trimble, 1990). Rainfall curves were developed for 1 day and 3 day storm events at return periods of 3, 5, 10, 25, and 100 years. Although a large number of stations were used in the study, the majority of the rainfall values used for the raw data were taken from gage readings taken only once a day. The time of day that readings were taken varied between stations. At many stations rainfall data accumulated over the weekends, and the values for rainfall were distributed based on adjacent gage data over the missing days for the study. The probability function chosen for predicting rainfall maxima was the two-parameter Gumbel Distribution. This analysis is essentially a log-normal distribution with constant skewness and has been used for rainfall prediction previously like the log-Pearson and log-normal distributions. A comparison between the results of the 1990 SFWMD study and this study are somewhat similar as shown in Figure 4.2 for the 10 year 3 day rainfall events. The maxima for this study were higher for most regions except for localized regions along the east coast in the Boca Raton and Miami areas. A different smoothing approach of the data would have produced more similar results in areas such as Boca Raton, where the 1 day 100 year return period rainfall prediction is 20 inches compared to only 8 inches approximately 20 miles to the west. Comparing results between this study and the SFWMD study for the 15 common rainfall locations, 4 of the stations predicted slightly higher rainfall values on average and 2 stations predicted much

Figure 4.2 Comparison Between This Study (thin lines) and the South Florida Water Management District Study (bold lines) for the 10 Year 3 Day Storm Event



higher values (1 to 4 inches). An example of a station with greater predicted volumes for the SFWMD is shown in Table 4.2 for West Palm Beach.

Table 4.2 SFWMD Study vs. This Study Comparison For West Palm Beach

<u>Duration</u> <u>(hrs)</u>	West Palm Beach					
	<u>10 year</u>		<u>25 year</u>		<u>100 year</u>	
	This study	SFWMD	This study	SFWMD	This study	SFWMD
24	8.14	9.0*	9.74	10.0*	12.30	14.0*
48	9.15	n/a	10.92	n/a	13.75	n/a
96	10.17	n/a	12.11	n/a	15.20	n/a

The remaining stations had slightly lower predicted values for SFWMD when compared to this study. An example is shown in Table 4.3 for Moore Haven.

Table 4.3 SFWMD Study vs. This Study Comparison For Moore Haven

<u>Duration</u> <u>(hrs)</u>	Moore Haven					
	<u>10 year</u>		<u>25 year</u>		<u>100 year</u>	
	This study	SFWMD	This study	SFWMD	This study	SFWMD
24	6.06	5.6*	7.07	6.4*	8.56	8.0*
48	6.82	n/a	7.92	n/a	9.48	n/a
96	7.57	n/a	8.76	n/a	10.40	n/a

Overall, the comparisons were favorable between this study and the study by the South Florida Water Management District as shown in Appendix D.

St. Johns River Water Management District

A similar study was conducted by the St. Johns River Water Management District for a rainfall analysis for Northeast Florida (Rao, 1988). Rainfall curves were developed for 24 hour to 96 hour maximum rainfall events at return periods of 10, 25, and 100 years. Like this study, the St. Johns River Water Management used the Log-Pearson Type 3 distribution was used for estimating higher return period storm volumes. The method was found by Rao to possess superior statistical properties when compared to other distribution methods in previous studies. Computer smoothing was done using the inverse distance square principle compared to the Kriging method performed for this study.

The contour maps from this study were similar to the study performed by St. Johns River Water Management District in 1988. The main difference appeared to be lower values (1 to 3 inches) for this study in the Daytona Beach - Deland area due to lower recorded rainfall amounts for hourly storms. Other areas in Northeast Florida such as Jacksonville and Orlando were almost identical. For some stations in both studies, the highest observed value was found to be an outlier, or a value markedly different in magnitude compared to the rest of the data. This resulted in some cities (such as St. Augustine for the Rao study and Miami in this study) to have the highest observed storm to be greater in volume than the 100 year predicted storm for various storm durations which in fact may be what is actually occurring. Overall, 3 of the 11 common sites had slightly lower predicted values for the SJRWMD study, such as Orlando shown below in Table 4.4. A map comparison is shown in Figure 4.3.

Figure 4.3 Comparison Between This Study (thin lines) and the St. Johns River Water Management District Study (bold lines) for the 10 Year 2 Day Storm Event

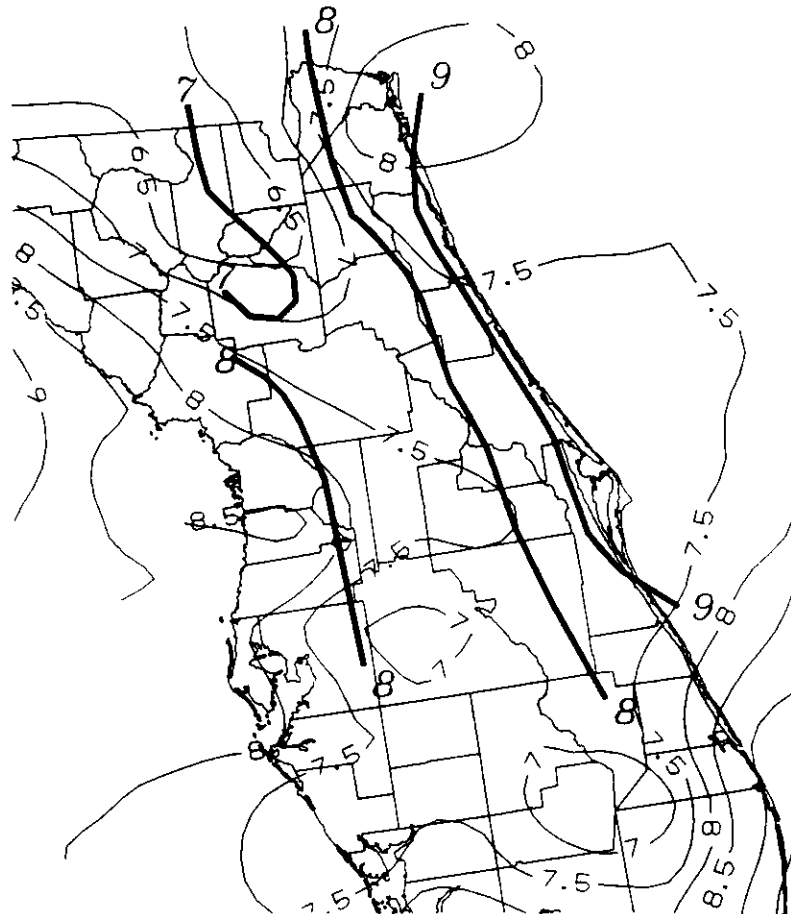


Table 4.4 SJRWMD Study vs. This Study Comparison For Orlando

<u>Duration</u> <u>(hrs)</u>	Orlando							
	<u>Mean annual</u>		<u>10 year</u>		<u>25 year</u>		<u>100 year</u>	
	This study	SJRWMD	This study	SJRWMD	This study	SJRWMD	This study	SJRWMD
24	4.30	4.26	7.08	6.6	8.74	8.2	11.33	11.0
48	5.07	5.10	8.01	7.6	9.88	9.8	12.79	13.2
96	5.68	5.93	8.93	8.8	11.01	11.0	14.25	14.7

One site (Daytona Beach) had much greater prediction values for the SJRWMD study when compared to this study. The remaining stations contained slightly higher predicted values for the SJRWMD study as shown in Table 4.5 for Jacksonville.

Table 4.5 SJRWMD Study vs. This Study Comparison For Jacksonville

<u>Duration</u> <u>(hrs)</u>	Jacksonville							
	<u>Mean annual</u>		<u>10 year</u>		<u>25 year</u>		<u>100 year</u>	
	This study	SJRWMD	This study	SJRWMD	This study	SJRWMD	This study	SJRWMD
24	4.71	5.04	7.36	8.0	9.06	9.6	11.83	12.5
48	5.48	5.78	8.43	9.0	10.45	11.0	13.73	14.6
96	6.22	6.53	9.50	10.0	11.83	12.4	15.70	16.1

Southwest Florida Water Management District

A rainfall analysis study was conducted in 1987 by the Southwest Florida Water Management District using seventeen recording rainfall stations in and around the district (Wanielista et. al, 1987). Estimated rainfall volumes were calculated for the 2 year through 100 year, 24 hour storm events. Similar to this study, the Log Pearson Type III

distribution was determined to be the best fit and used for predicting rainfall amounts at various return periods. The length of rainfall records for the SWFWMD study ranged from 43 years to 88 years, and daily records were used.

The results of this study were very favorable when compared to those of the SWFWMD study. In most cases, the difference in rainfall volumes were less than half an inch. The SWFWMD predicted values were slightly less than those of this study about 50% of the time and slightly greater the other 50%. A typical comparison between this study and that of the SWFWMD for Tampa is shown below in Table 4.6. A map comparison is presented in Figure 4.4.

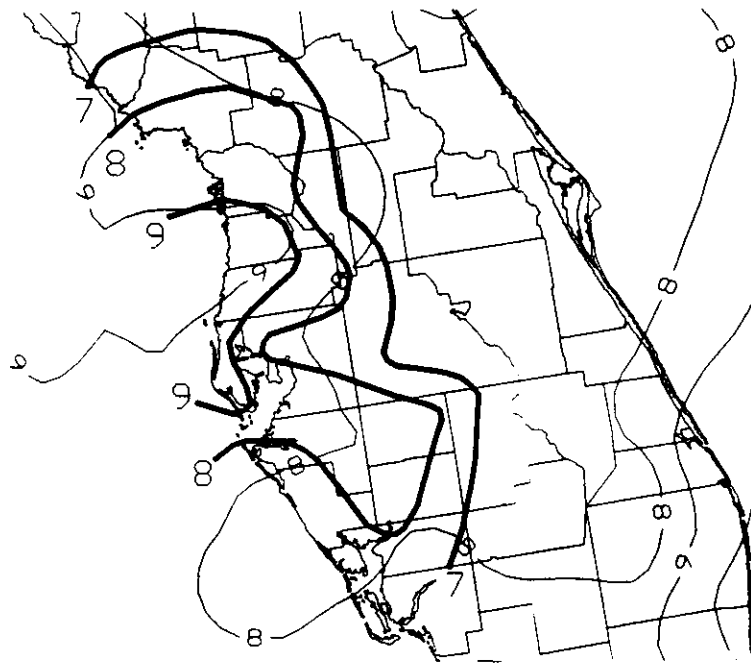
Table 4.6 SWFWMD Study vs. This Study Comparison For Tampa

<u>Duration (hrs)</u>	<u>Tampa</u>							
	<u>Mean annual</u>		<u>10 year</u>		<u>25 year</u>		<u>100 year</u>	
	<u>This study</u>	<u>SWF WMD</u>	<u>This study</u>	<u>SWF WMD</u>	<u>This study</u>	<u>SWF WMD</u>	<u>This study</u>	<u>SWF WMD</u>
24	4.04	4.40	6.41	6.66	8.13	7.98	11.08	11.11
48	4.71	n/a	7.35	n/a	9.35	n/a	12.79	n/a
96	5.42	n/a	8.29	n/a	10.57	n/a	14.50	n/a

Suwannee River and Northwest Florida Water Management Districts

A comparison was not made with these Water Management Districts since a rainfall study could not be found. However, a comparison was made between this study and TP-40 results in this area. The general trend in the comparison between the two studies is that the results are fairly similar in the Suwannee River Water Management District although slightly lower in this study on average, becoming greater in difference

Figure 4.4 Comparison Between This Study (thin lines) and the Southwest Florida Water Management District Study (bold lines) for the 25 Year 1 Day Storm Event



further west into the Northwest Florida Water Management District toward Alabama. One explanation can be found by observing the general trend in the skewness factor used in this and related studies using the Log Pearson distribution. The trend is that higher skewness factors are present east toward Jacksonville (above 2 in many cases) decreasing toward zero westward along the panhandle toward Pensacola (where the skewness is actually negative). A higher skewness factor implies a higher multiplier value used in the return period prediction rainfall volume. This causes a lower predicted value in a city such as Pensacola (skewness approximately 0) to a city such as Grady (skewness = 2.1) when compared to the case where a constant skewness was used. The use of a constant skewness for the whole state of Florida (skewness value not specified in TP-40) changes the predicted rainfall pattern when compared to studies using variable skewness factors. An example comparison between this study and TP-40 for a location in the Suwannee River Water Management District (Grady) and the Northwest Florida Water Management District are given in Tables 4.7 and 4.8 respectively.

Table 4.7 TP-40 Study vs. This Study Comparison For Grady

<u>Duration</u> <u>(hrs)</u>	Grady					
	<u>10 year</u>		<u>25 year</u>		<u>100 year</u>	
	This study	TP-40	This study	TP-40	This study	TP-40
24	6.36	6.8*	7.42	7.8*	8.91	9.8*
48	7.27	7.7*	8.51	9.2*	10.22	11.8*
96	8.18	9.0*	9.61	10.8*	11.53	13.8*

Table 4.8 TP-40 Study vs. This Study Comparison For Pensacola

<u>Duration</u> <u>(hrs)</u>	Pensacola					
	<u>10 year</u>		<u>25 year</u>		<u>100 year</u>	
	This study	TP-40	This study	TP-40	This study	TP-40
24	8.12	9.6*	9.15	11.0*	10.41	13.6*
48	9.31	10.4*	10.46	12.2*	11.81	14.3*
96	10.5	12.0*	11.76	13.6*	13.22	17.0*

Skewness Coefficient Comparison

Since the TP-40 study was based on a time period of over thirty years previous to this study and used less data, the question of a change in skewness coefficient when more recent data are used can be tested. In addition, a change in skewness coefficient in relation to the length of the record can also be tested. Figures 4.5, 4.6, and 4.7 show how the skewness coefficient for a given location can change depending on the beginning year of data collection. The skewness coefficient was calculated based on 20 years of data at 4 year intervals for the cities of Apalachicola, Graceville, and Jacksonville. Although the skewness coefficients fluctuated for different starting years, the fluctuations were less than might be expected for the independent sets of data. The other graph provided for the locations shows changes in the skewness depending on the number of years of data included in the sample. For all three locations there was some fluctuation for the smaller data sets (10 to 25 years of data), but as the data sets became larger the skewness coefficients appear to be converging on a much smaller range of numbers. At any rate, the skewness coefficients in Apalachicola are much less (approximately 0.4) than the Miami

area (approximately 2.3) or the Jacksonville area (approximately 1.3) and thus the assumptions used in TP-40 to develop curves for the State of Florida using only Jacksonville and Miami as representative sites leads to an overestimation of rainfall volumes at locations such as Apalachicola.

FIGURE 4.5
SKEWNESS COEFFICIENT VARIATION WITH TIME FOR APALACHICOLA

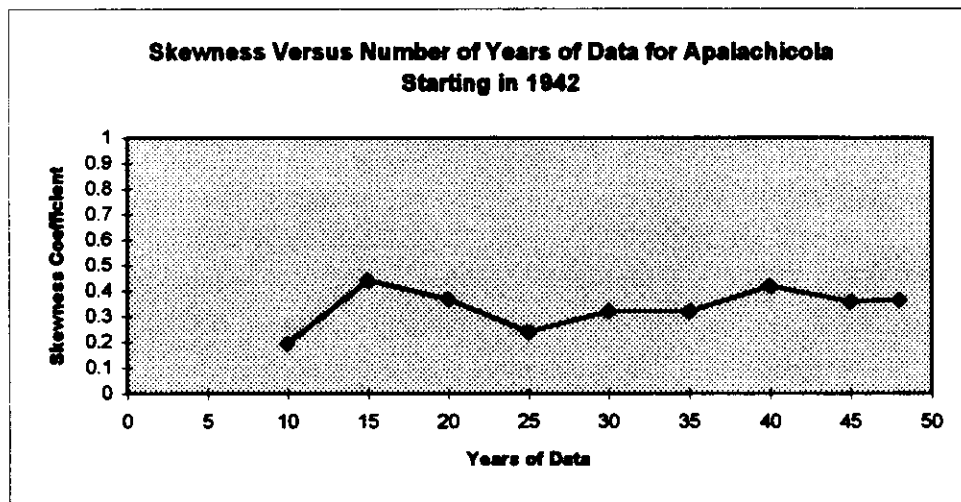
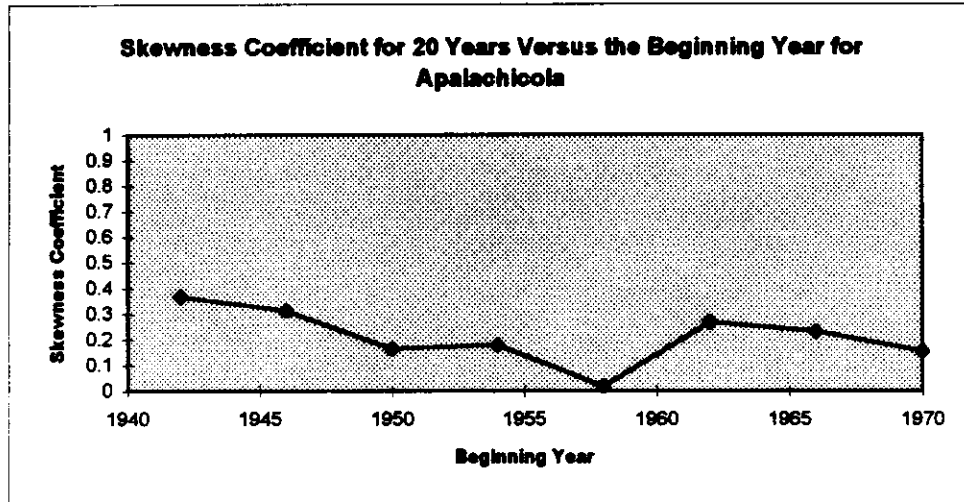


FIGURE 4.6
SKEWNESS COEFFICIENT VARIATION WITH TIME FOR GRACEVILLE

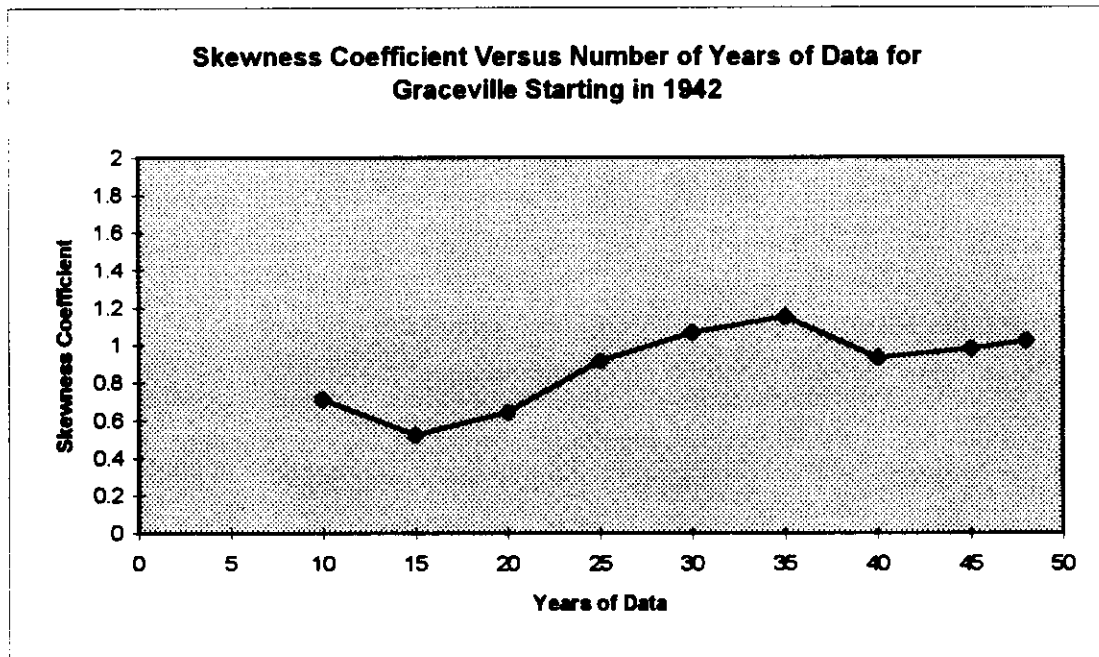
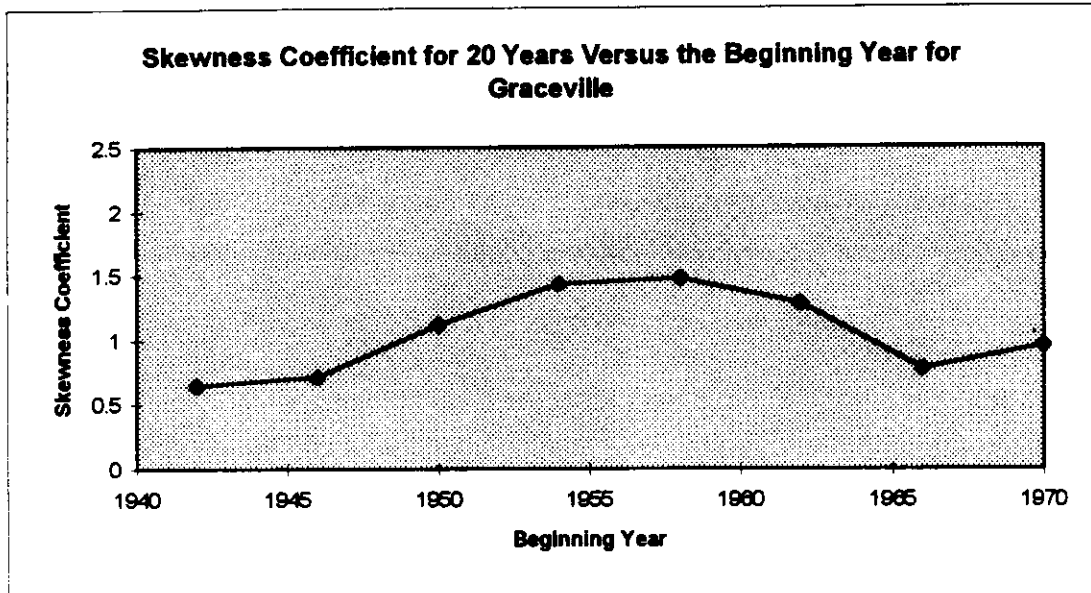
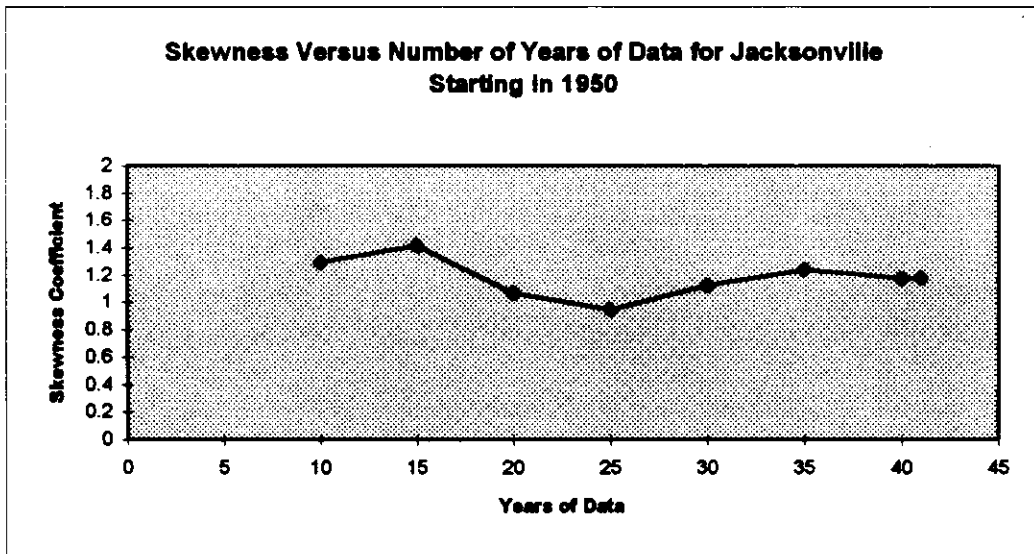
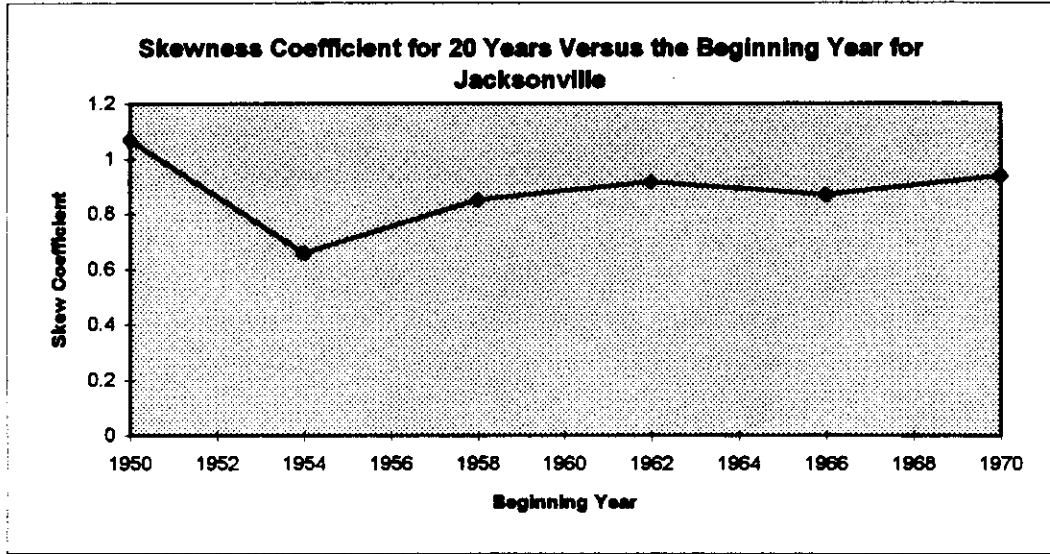


FIGURE 4.7
SKEWNESS COEFFICIENT VARIATION WITH TIME FOR JACKSONVILLE



CHAPTER 5

SUMMARY AND CONCLUSIONS

Summary

The objectives of this work were to develop constant rainfall volume (isophuvial) values for 1, 2, 3, 4, 7, and 10 day duration storm events at return periods of 2, 5, 10, 25, 50, and 100 years. To accomplish this objective, rainfall data were obtained from the National Oceanic and Atmospheric Administration (NOAA) in computer compact disc format for Florida and neighboring cities in Alabama and Georgia. The rainfall records for each city were parsed by a computer program and the largest volume for each duration storm (1 hour up to 240 hours in length) were determined for each year of record. The annual maximums were used as an input to a fit distribution program which projected the maximum rainfall volumes for longer return periods using a conventional intensity-duration equation and a Log Pearson Type III fit distribution. These predicted rainfall volumes were then smoothed by a logarithmic smoothing curve to ensure continuity and cohesiveness. The rainfall volumes for each duration and return period for each city were input into a contour plotting program, where a krigging procedure was used to interpolate and extrapolate values for locations in Florida where no weather stations were used. The smoothed contour lines were then superimposed on a digitized drawing of the State of Florida for the final isophuvial curves.

Conclusions

The rainfall volume contour maps in Appendix A can be used to update those provided in the Florida Department of Transportation Drainage Manual and provide more curves for additional return periods and storm durations. The isopluvial curves in Appendix A show many of the same characteristics as those in the Drainage Manual and some characteristics that are not as pronounced. Most of the trends are related to the weather pattern for the state.

For cities located inland, one general trend is a small decrease in worst case rainfall volume and intensity for most storm durations and return periods. Typically during the year, sea breezes from both coasts over the hot land surface causes the formation of the intense storms inland. However, most of the worst case rainfall volume events are from the infrequent tropical storms and hurricanes that strike Florida. During the twentieth century, 57 hurricanes entered Florida, along with hundreds of tropical storms and tropical depressions. Hurricanes and tropical storms generally produce tremendous amounts of rainfall, and coastal regions are more likely to experience these storms.

On an annual basis the Florida Keys do not receive a substantial amount of rain, but the worst case storm event for all durations less than or equal to 10 days at higher return periods for the entire state occurs here, likely because of the more frequent tropical storms in the area. In fact, Key West is the driest part of the state with an annual rainfall of 40 inches. Other locations which have larger than average rainfall volumes for worse case storm events are the Miami area and the area around Tallahassee.

On a statewide basis, the difference between rainfall volume prediction values increases as storm duration and return periods increase. For 1 day storms with a 2 year return period, rainfall volumes ranged from 3.39 inches (Raiford) to 5.42 inches (Pensacola), a spread of a little over 2 inches. For 10 day storms with a 100 year return period, rainfall volumes ranged from 9.89 inches (Coolidge) to 25.44 inches (Key West), a spread of 15.65 inches. Although the isophluvial maps are similar to those found in FDOT's Drainage Manual, in many cases the rainfall volumes presented in Appendix A are slightly less and thus less conservative. This is shown qualitatively in Table 3.4. These curves were similar to the studies reported by several of the water management districts. In fact, there are more similarities between this study and those of the water management districts than with TP-40, as shown in Appendix D. The maps in Appendix A are more detailed than those previously published, and believed to be more accurate due to the increased availability of data and the availability of more advanced computer software programs to process the data.

RECOMMENDATIONS

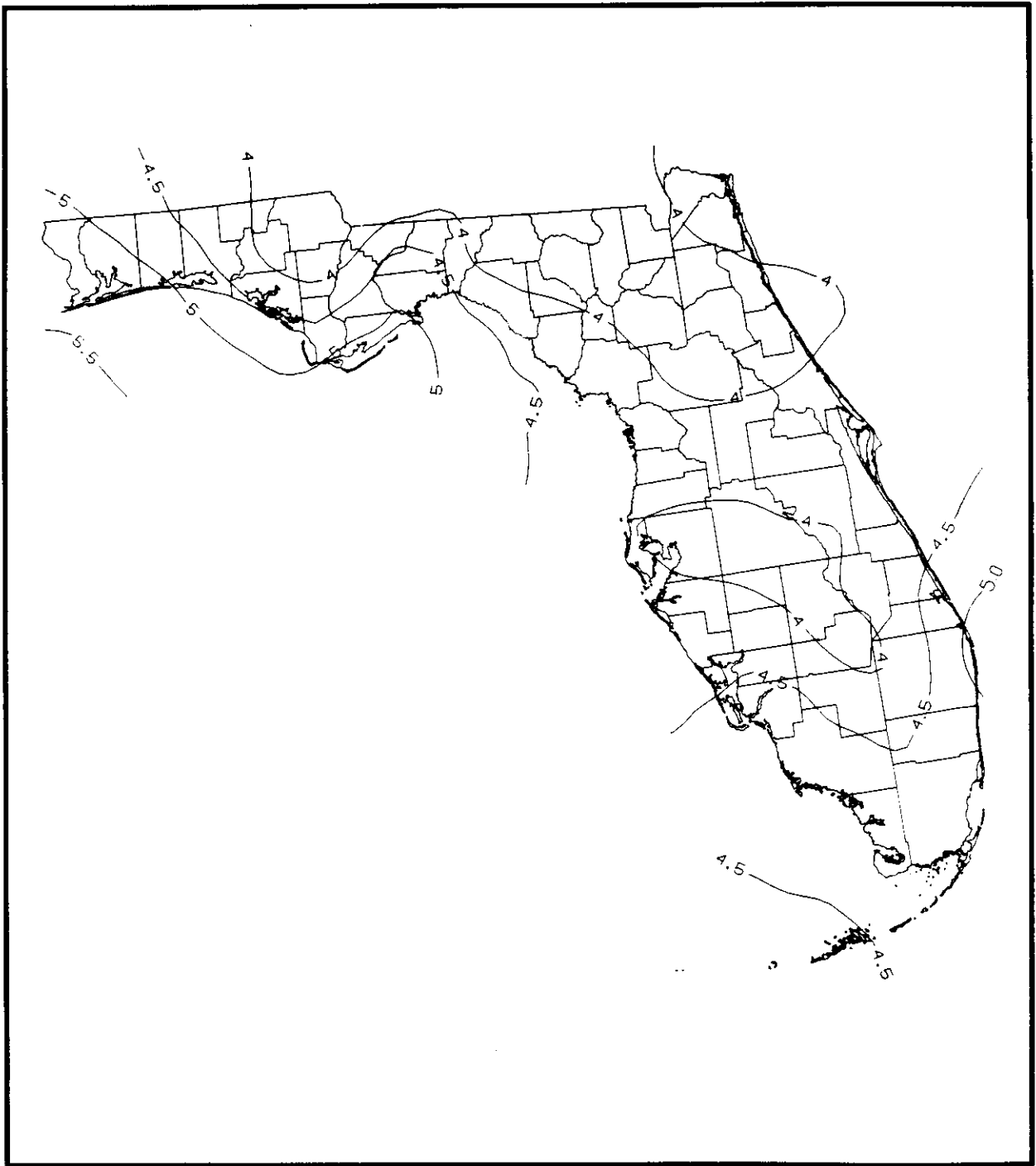
It is recommended that the Florida Department of Transportation include the isophluvial contour maps and the location by location predicted rainfall volumes for 1, 2, 3, 4, 7, and 10 day duration storm events for 2, 5, 10, 25, 50, and 100 year return periods in a future revision of the Florida Department of Transportation Drainage Manual. It is also recommended that consideration be given to the results of this study by the Florida Water Management Districts and other agencies which may find these data useful while

recognizing the methodology and limitations of this study, U. S. Westher Bureau's Technical Paper No. 40, and the various water management district studies.

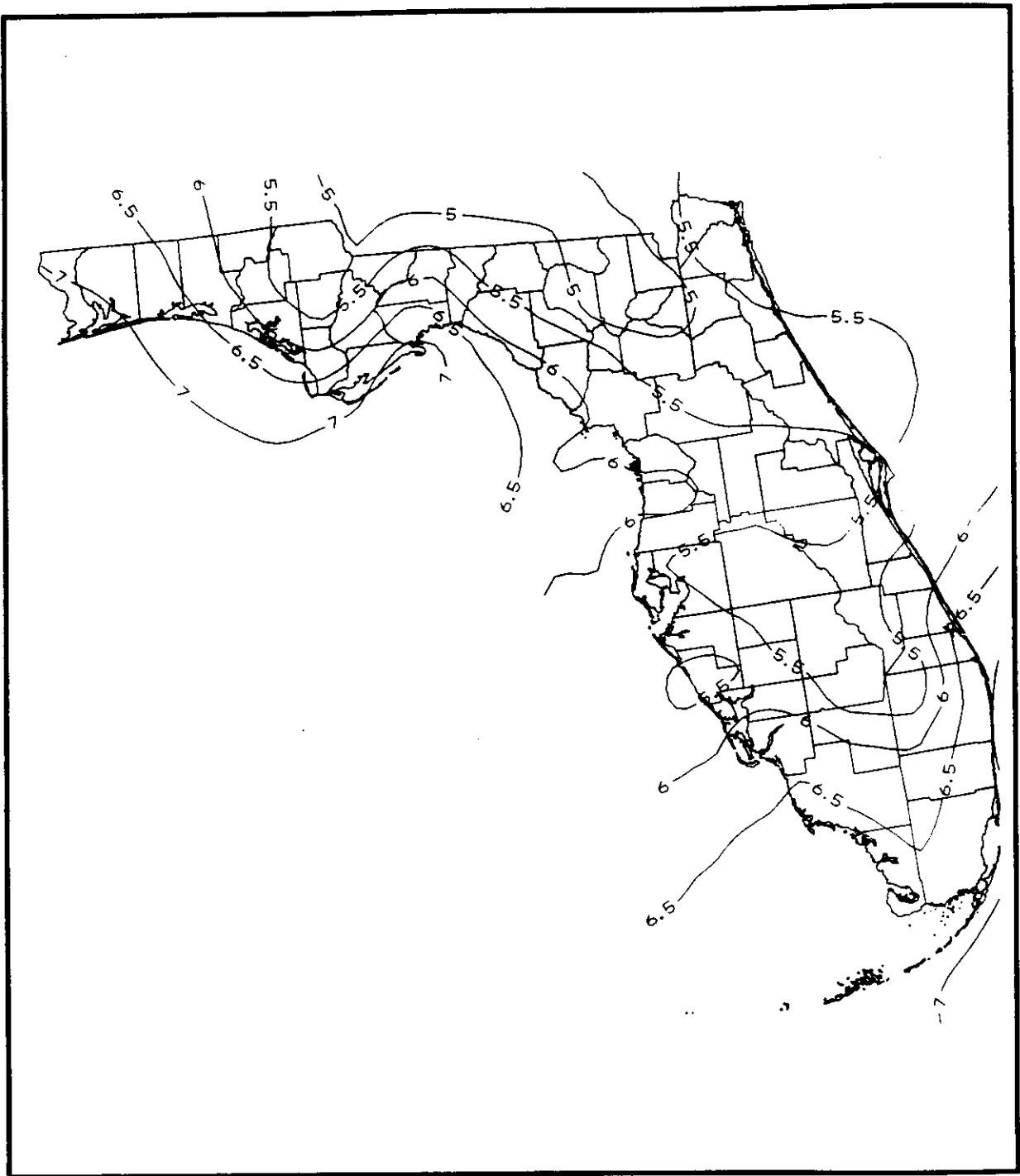
The precipitation volume data may also be used for critical duration design of drainage structures and any future regulations related to critical duration design storms. For storm durations other than those used for the isophrival contour lines (i.e. 1, 2, 3, 4, 7, and 10 day duration), equations were developed for each location (city) and are presented in Appendix E. The Florida Department of Transportation, Florida Department of Environmental Regulation, and Florida Water Management Districts will find the information in Appendices A, B, and C useful for worst case storm prediction at various selected return periods and durations and also as part of any rainfall related modeling, such as stormwater, groundwater, river, or hydrologic cycle modeling.

APPENDIX A

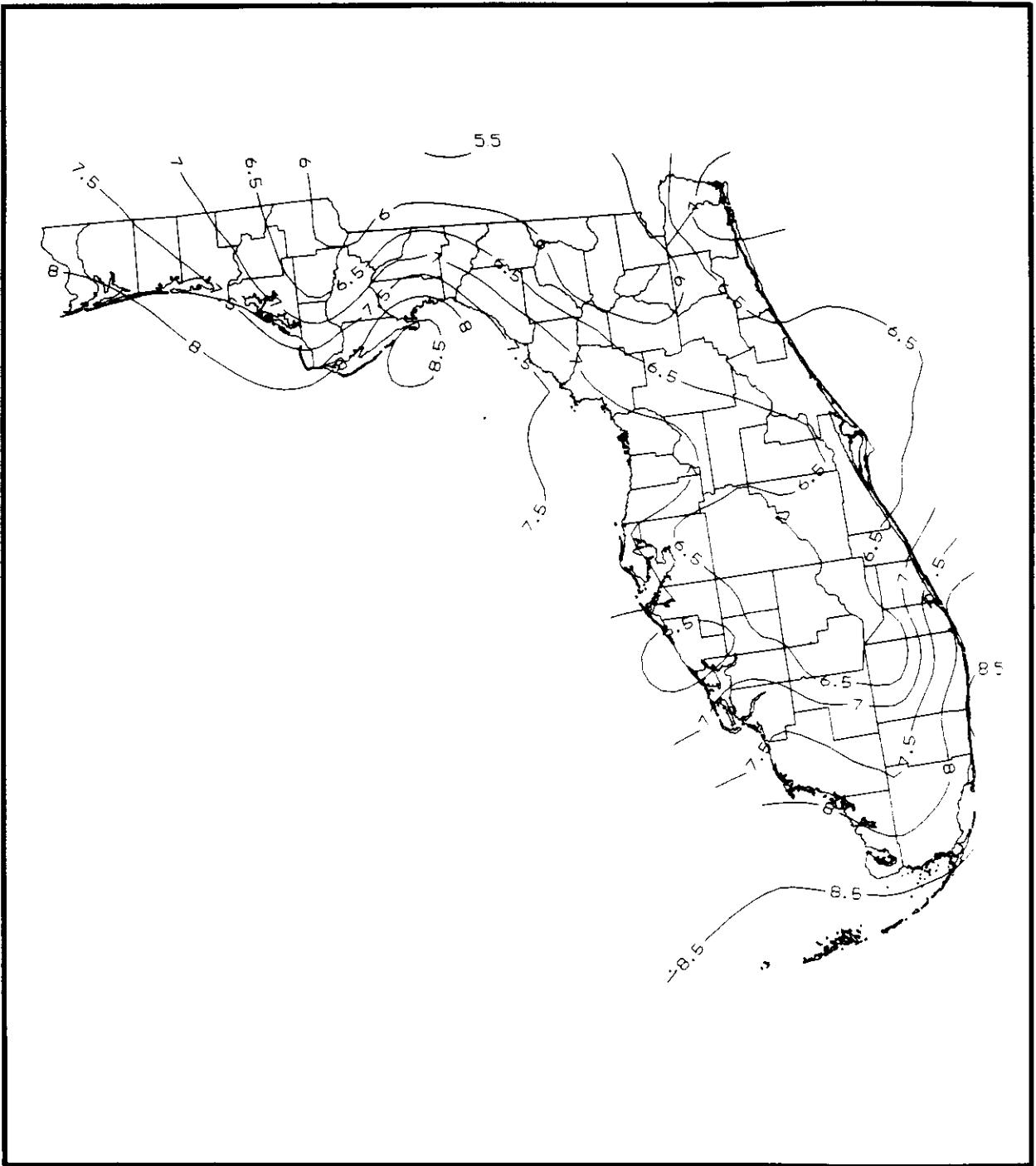
**FLORIDA 1, 2, 3, 4, 7, AND 10 DAY ISOPLUVIAL MAPS FOR 2, 5,
10, 25, 50, AND 100 YEAR RETURN PERIODS**



2-Year 1-Day Precipitation (inches)



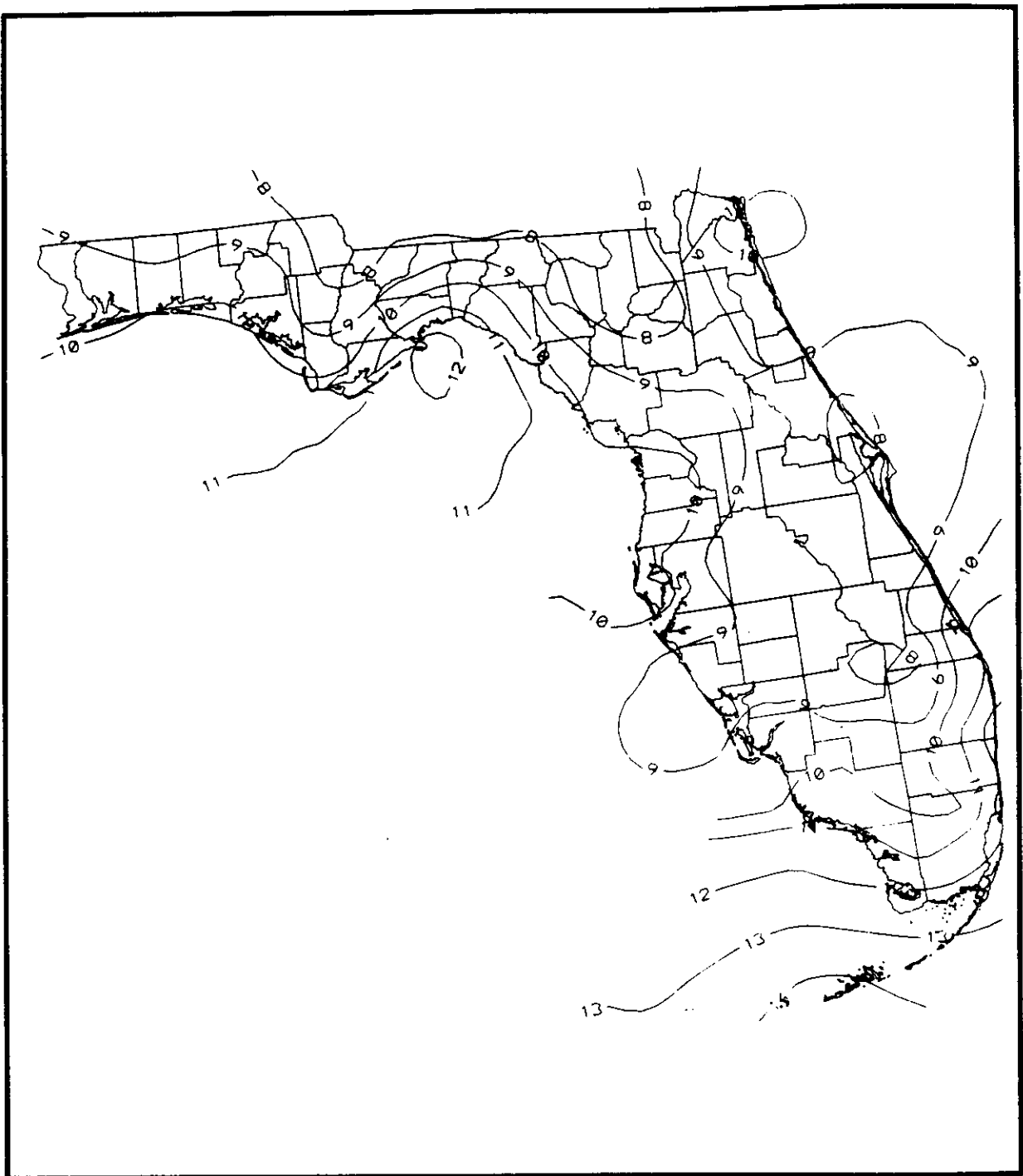
5-Year 1-Day Precipitation (inches)



10-Year 1-Day Precipitation (inches)



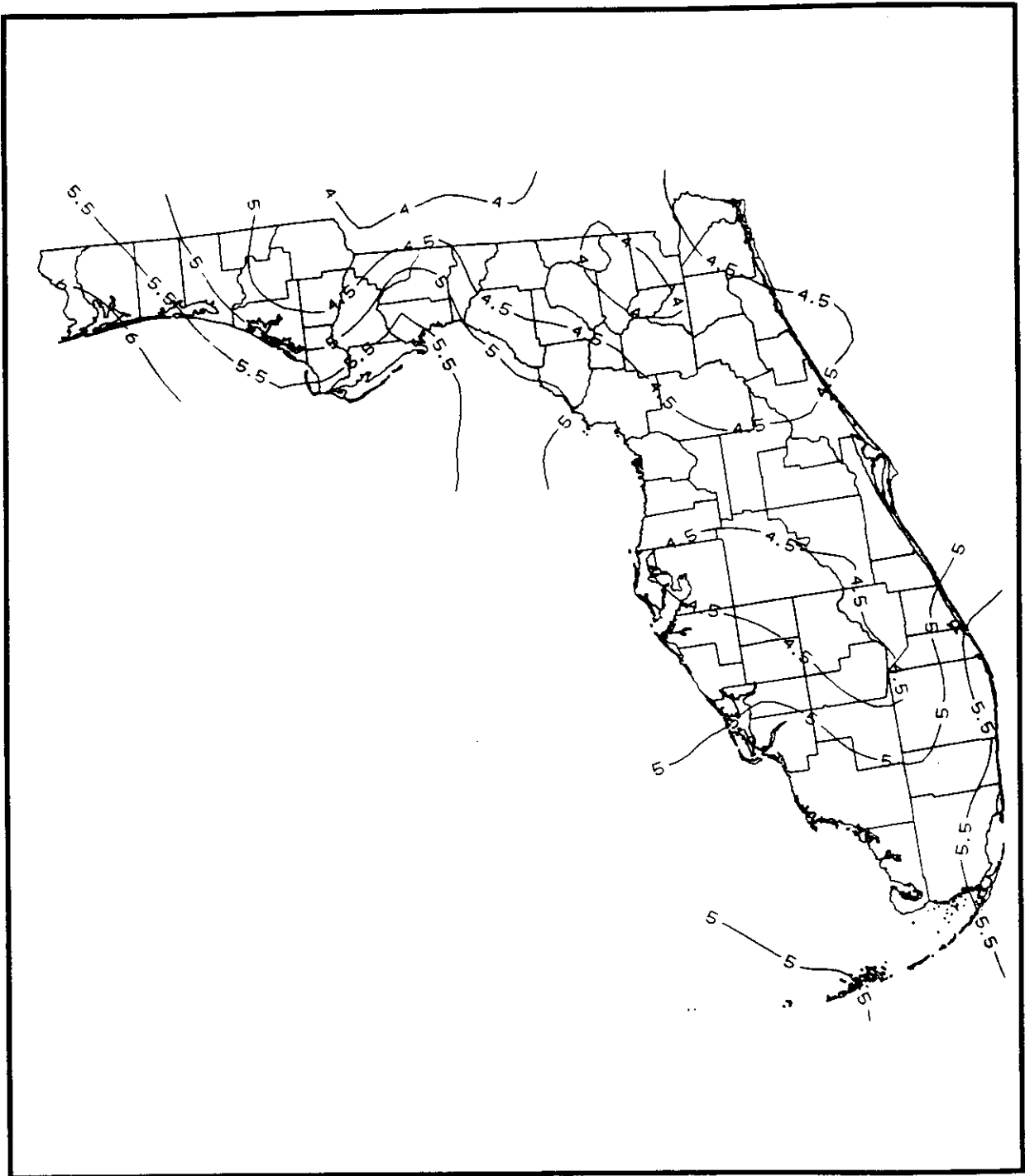
25-Year 1-Day Precipitation (inches)



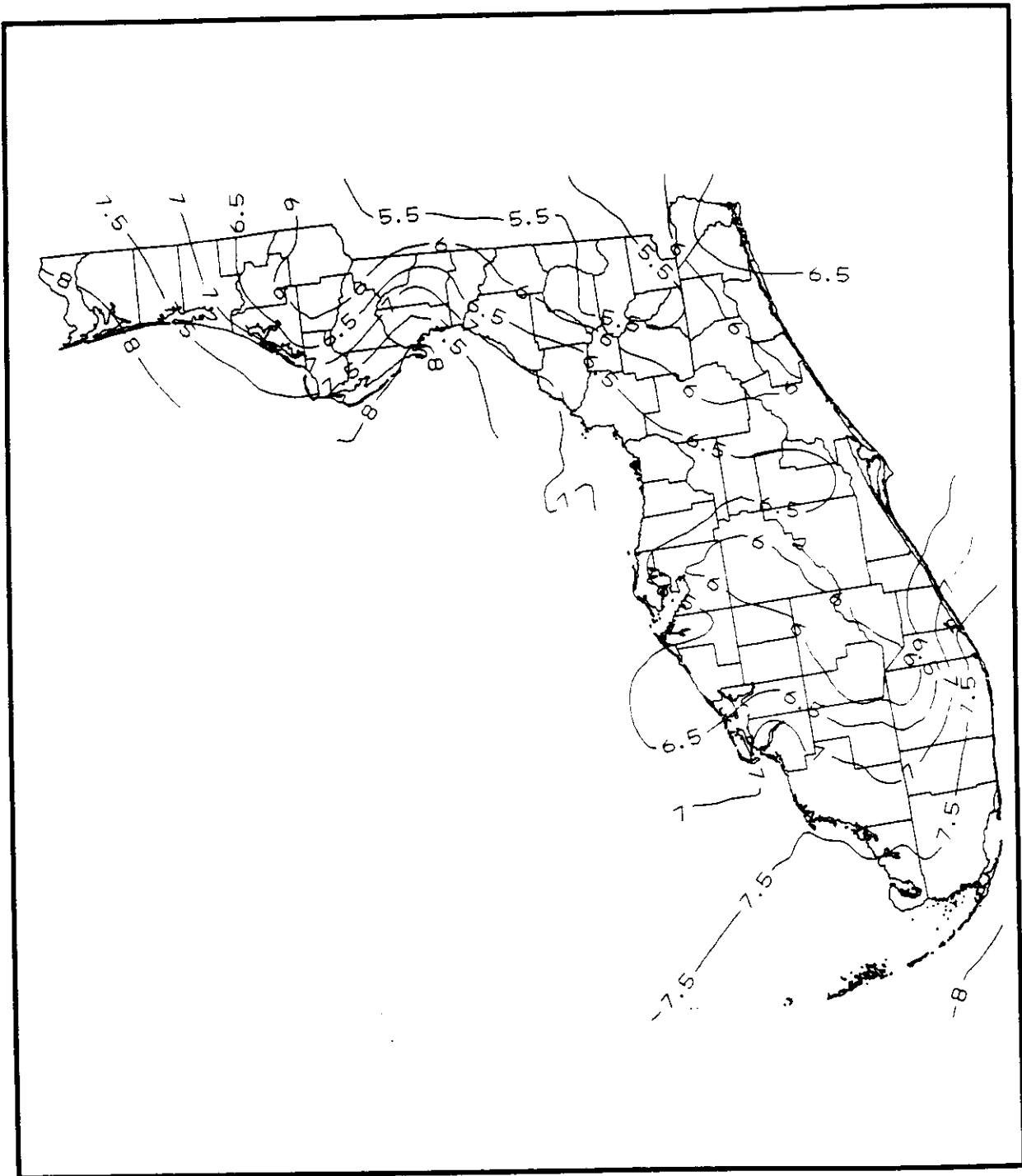
50-Year 1-Day Precipitation (inches)



100-Year 1-Day Precipitation (inches)



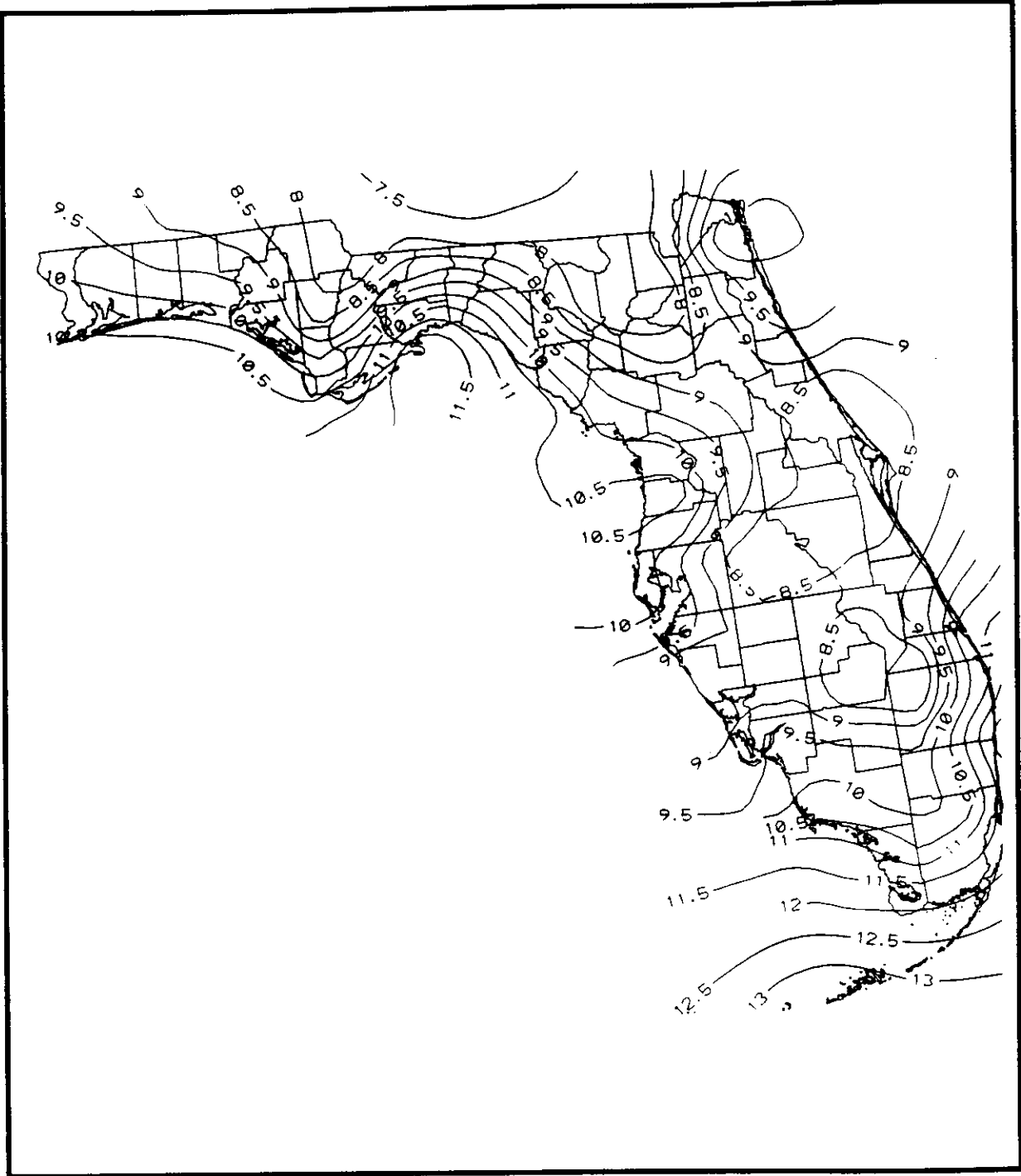
2-Year 2-Day Precipitation (inches)



5-Year 2-Day Precipitation (inches)



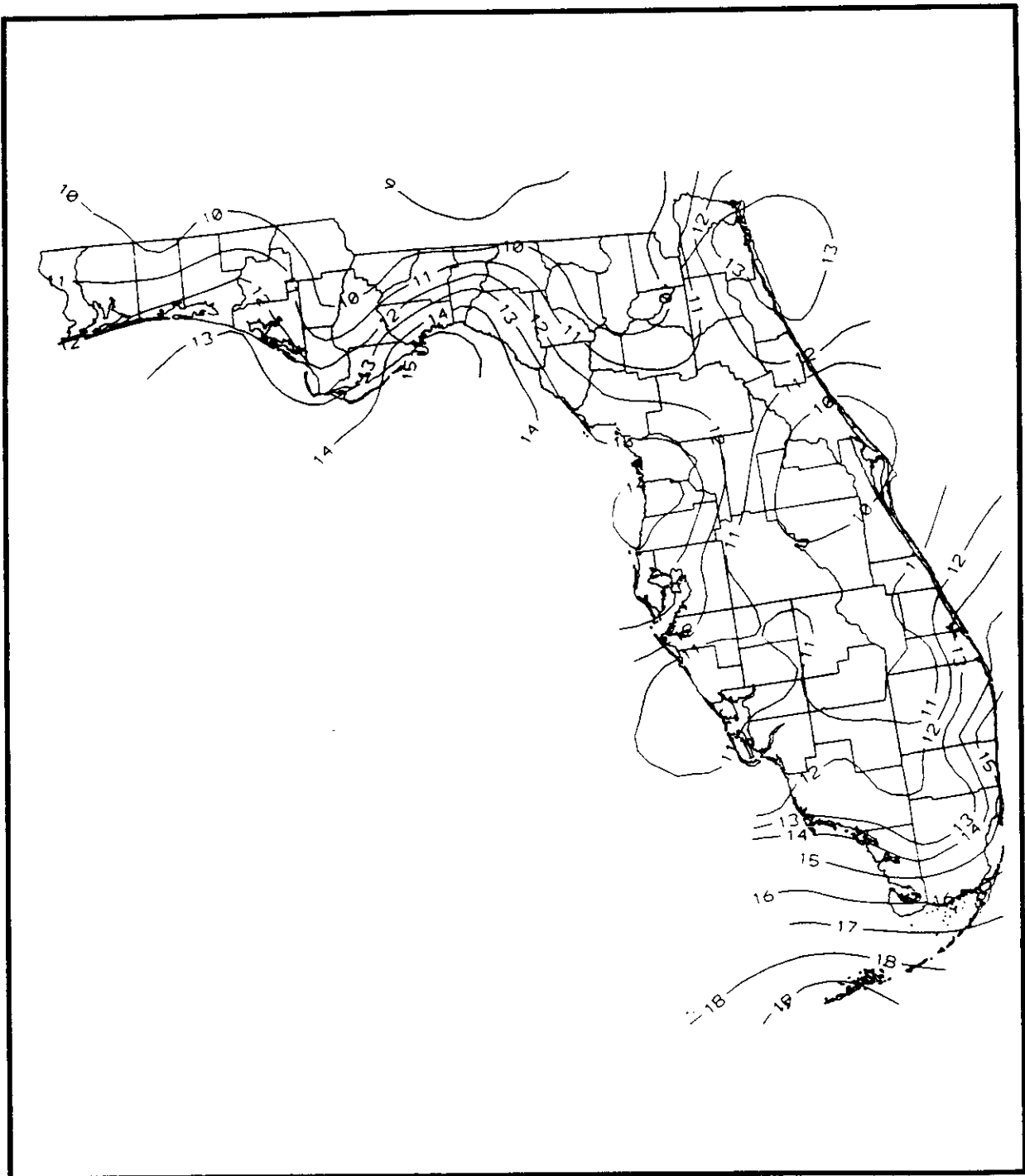
10-Year 2-Day Precipitation (inches)



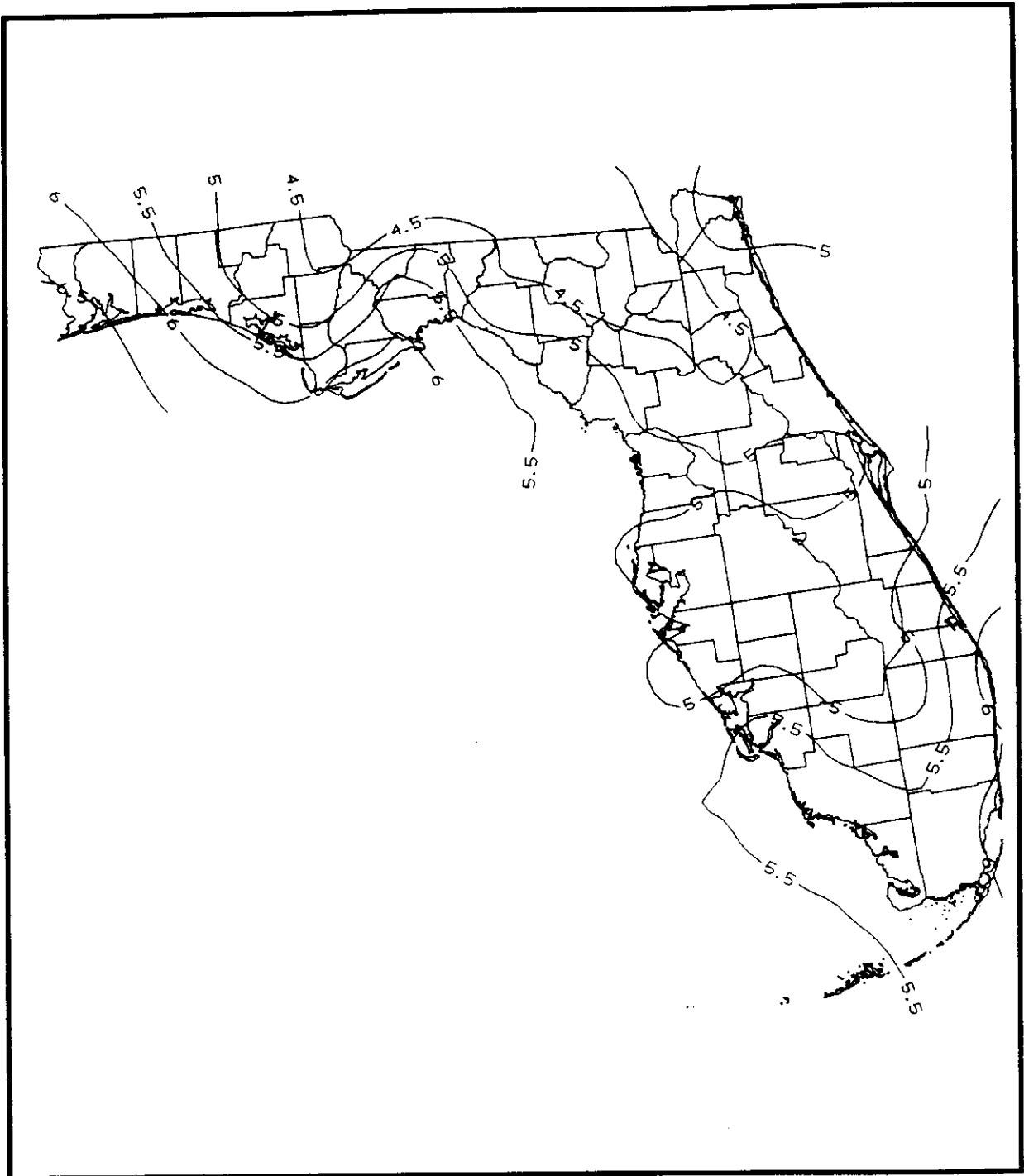
25-Year 2-Day Precipitation (inches)



50-Year 2-Day Precipitation (inches)



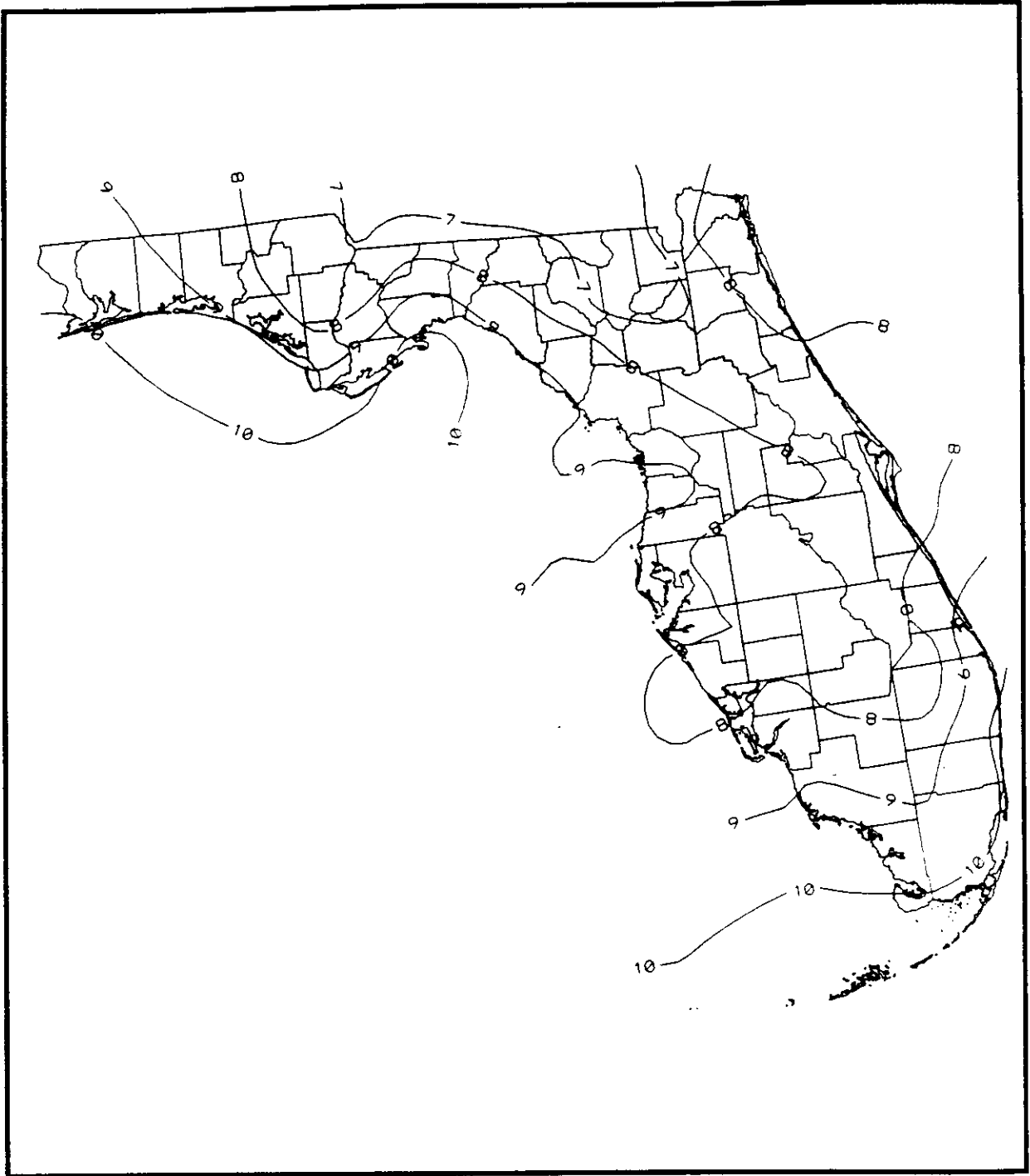
100-Year 2-Day Precipitation (inches)



2-Year 3-Day Precipitation (inches)



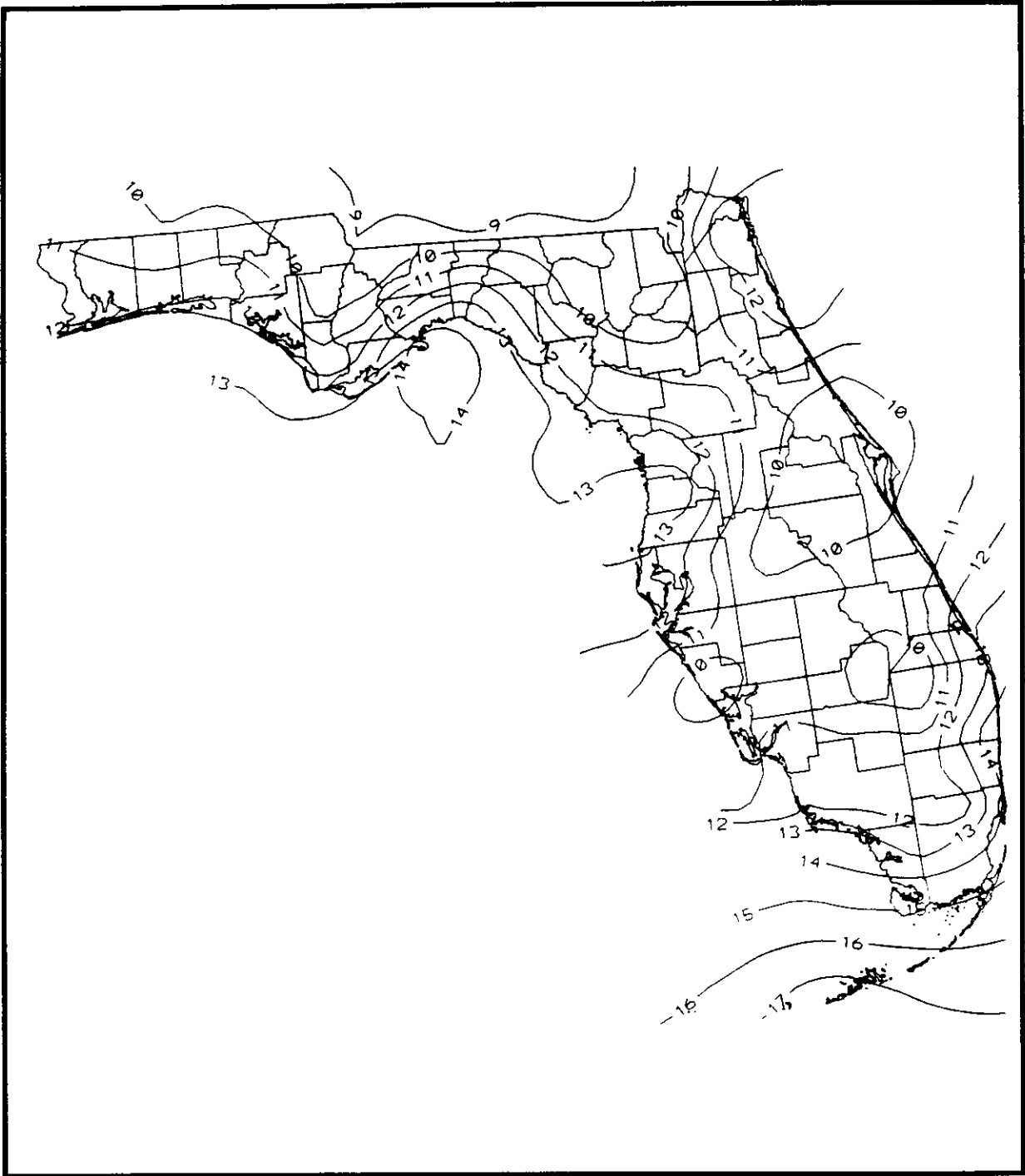
5-Year 3-Day Precipitation (inches)



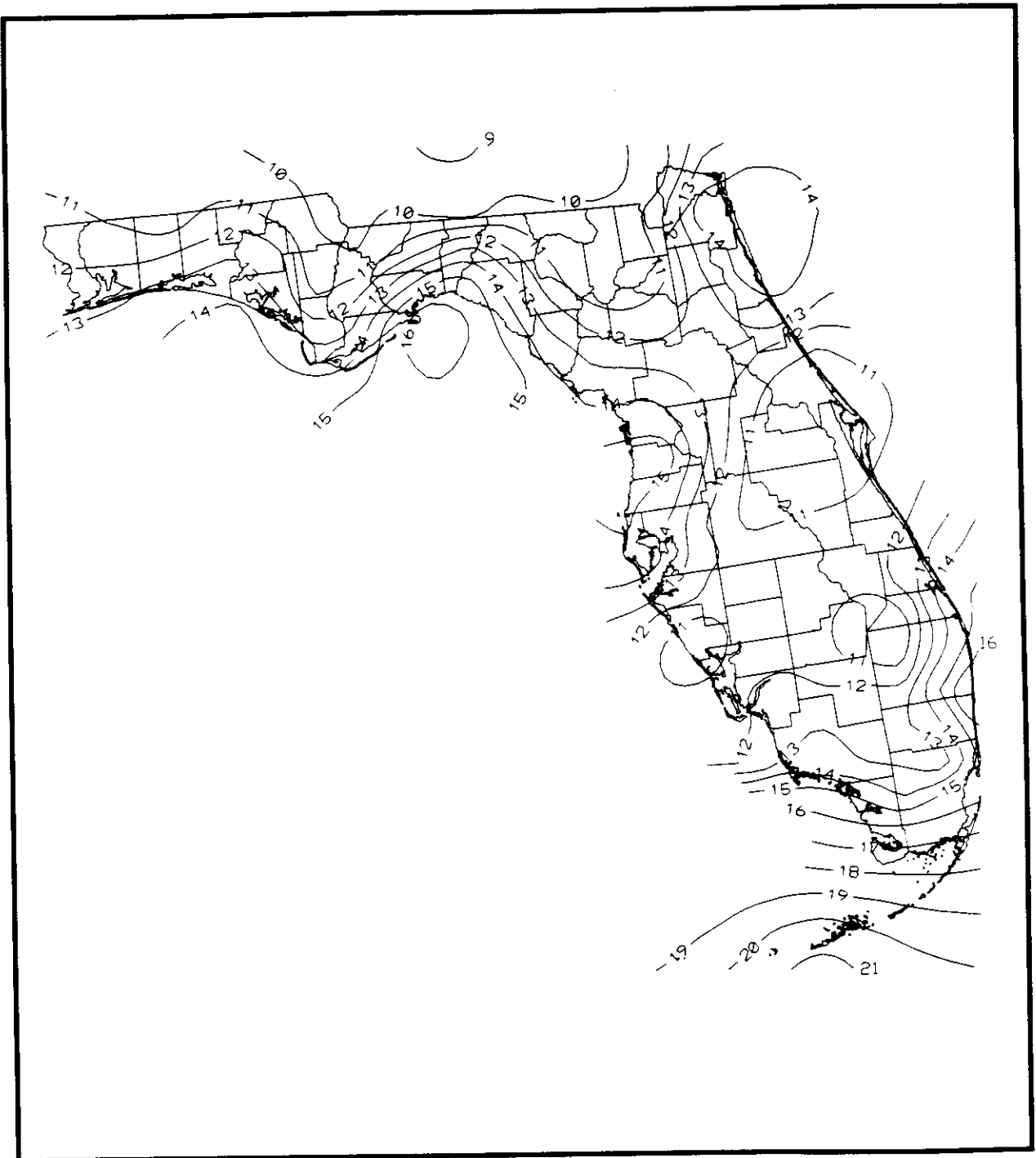
10-Year 3-Day Precipitation (inches)



25-Year 3-Day Precipitation (inches)



50-Year 3-Day Precipitation (inches)



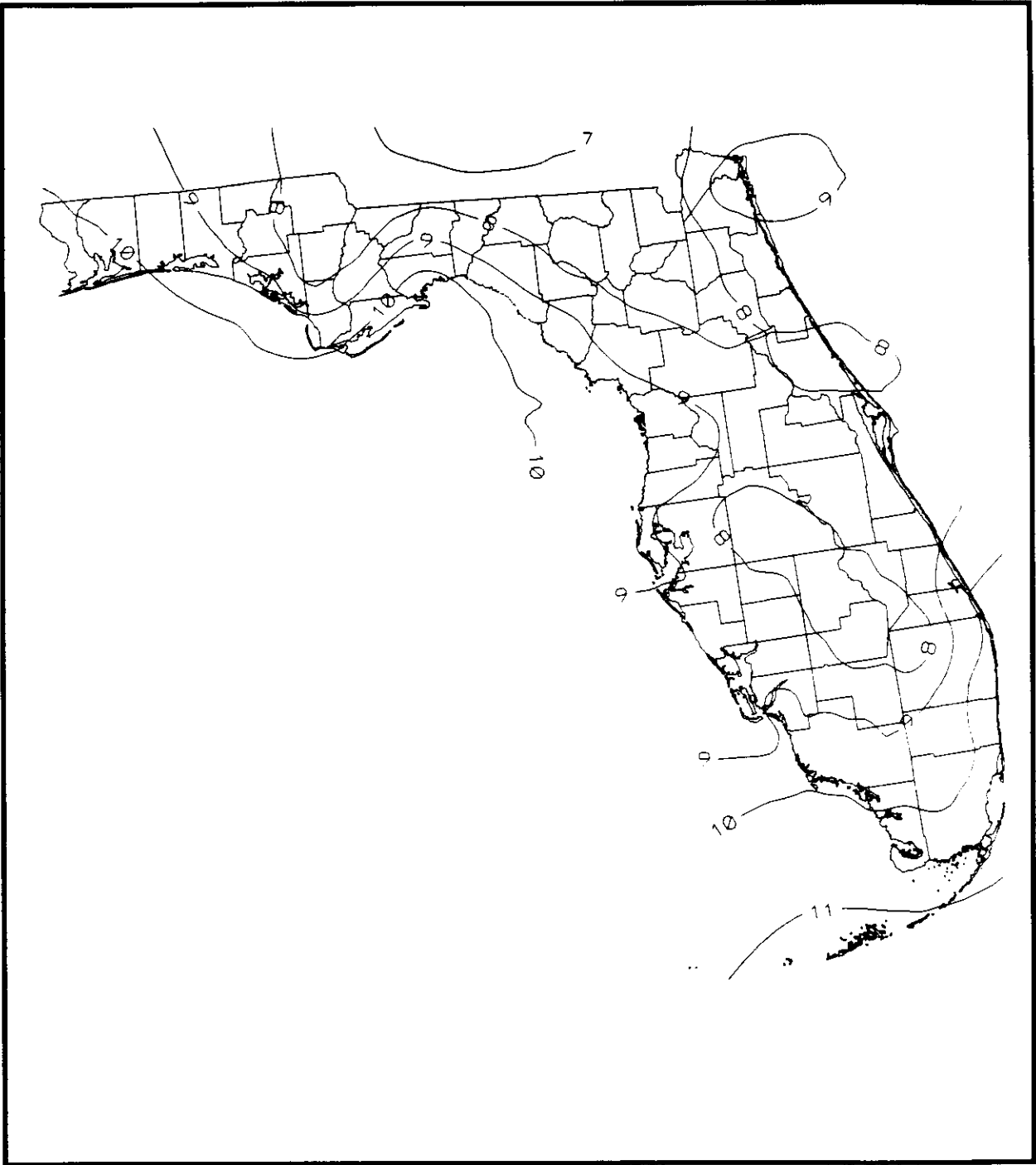
100-Year 3-Day Precipitation (inches)



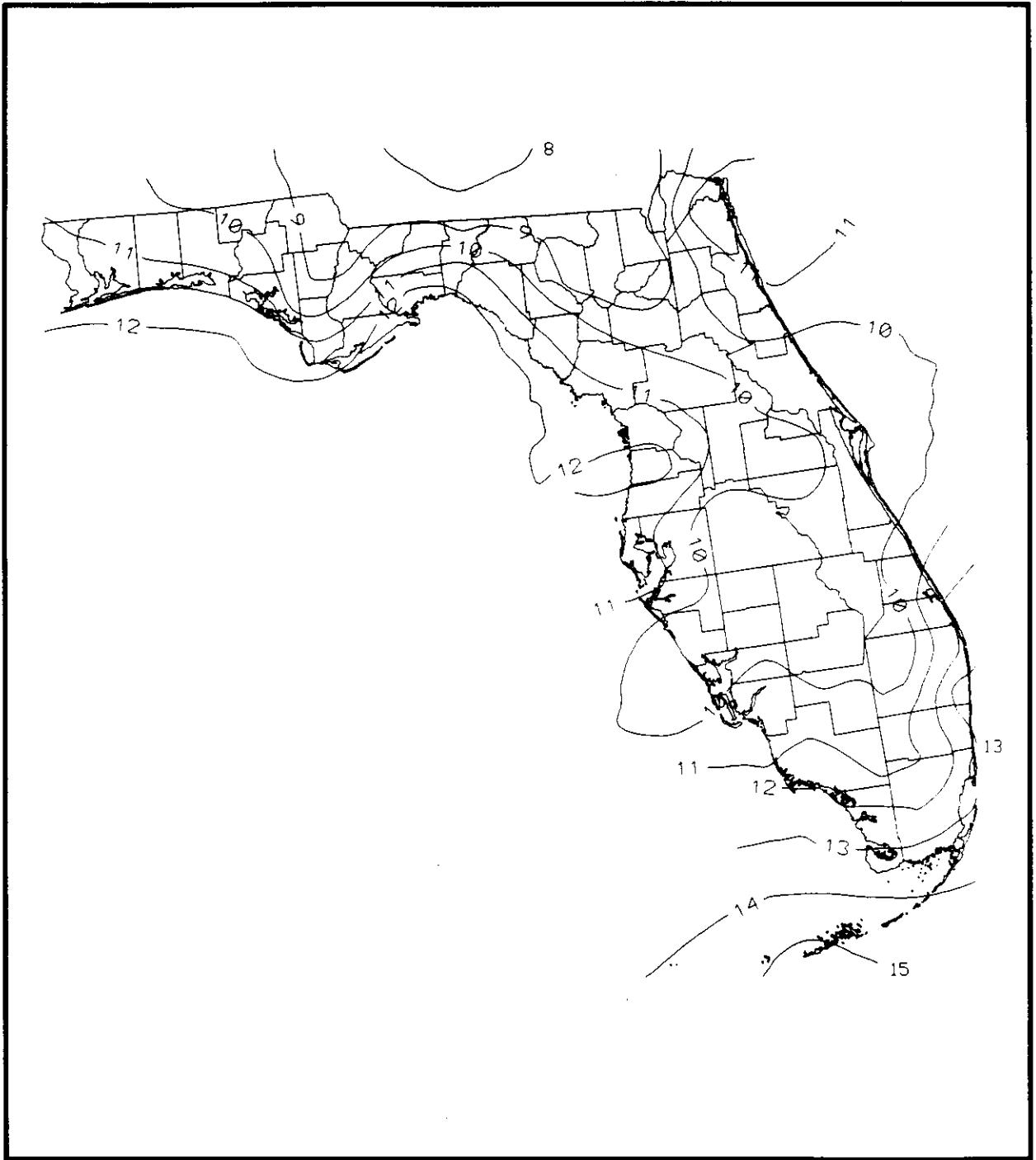
2-Year 4-Day Precipitation (inches)



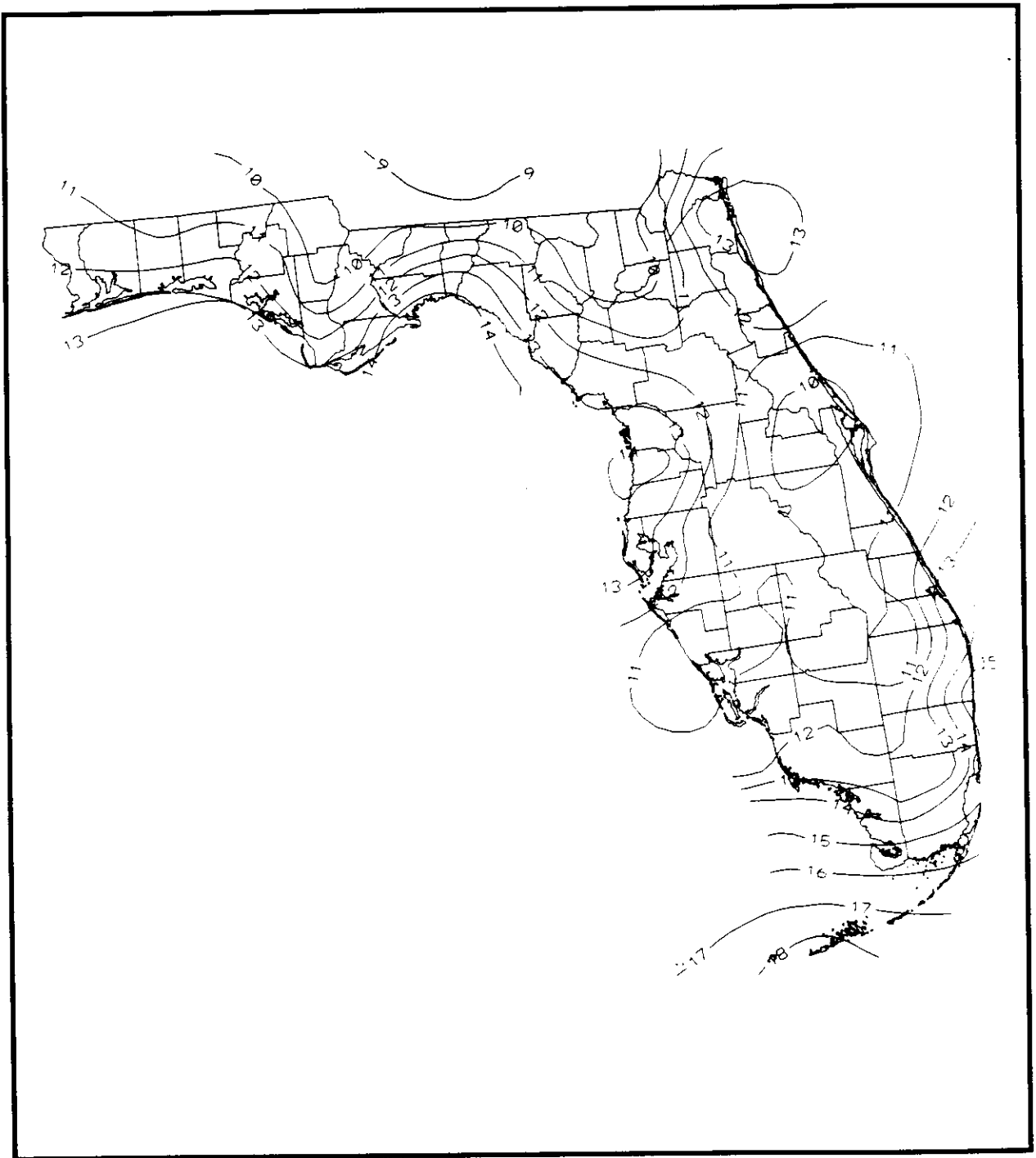
5-Year 4-Day Precipitation (inches)



10-Year 4-Day Precipitation (inches)



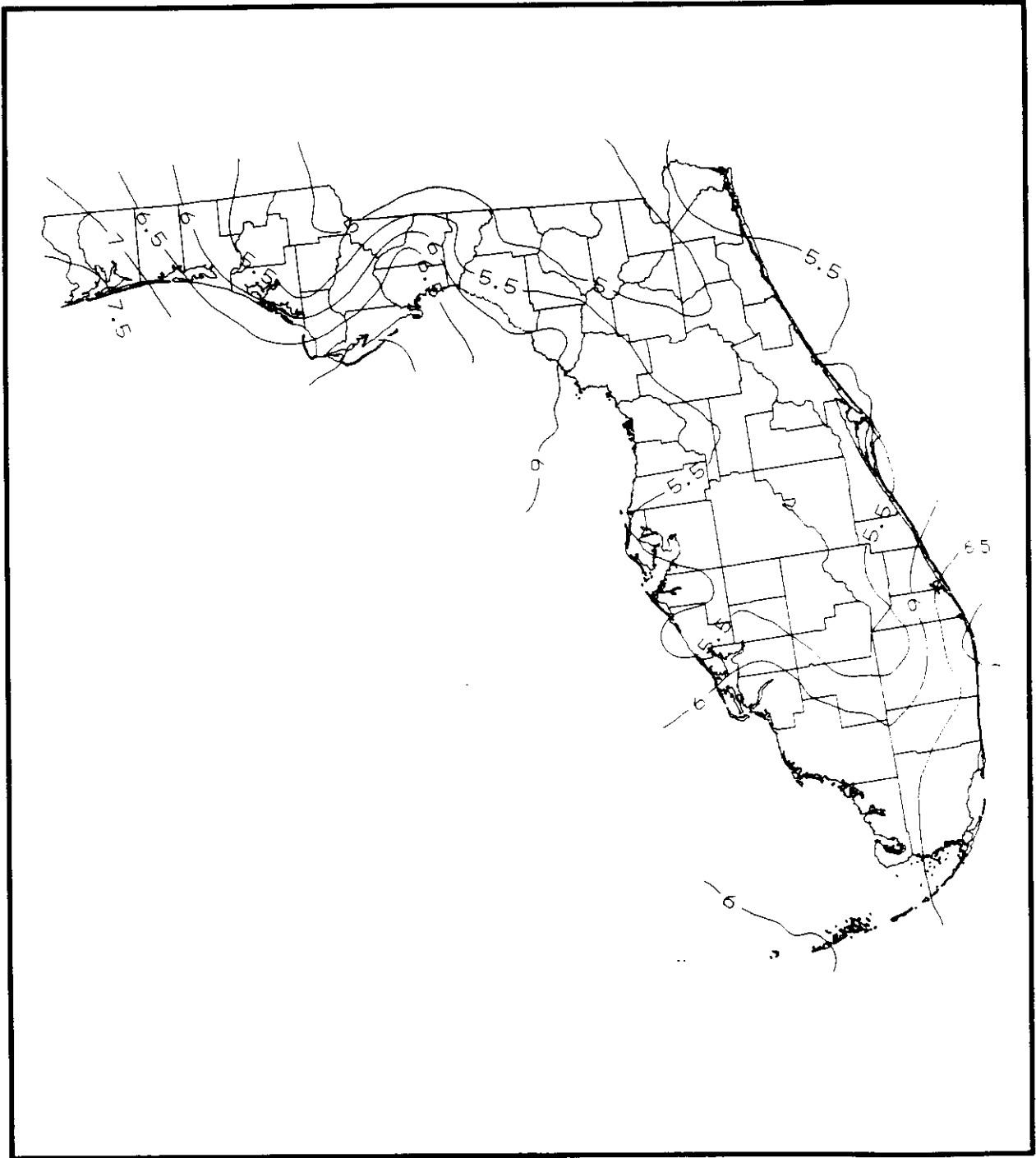
25-Year 4-Day Precipitation (inches)



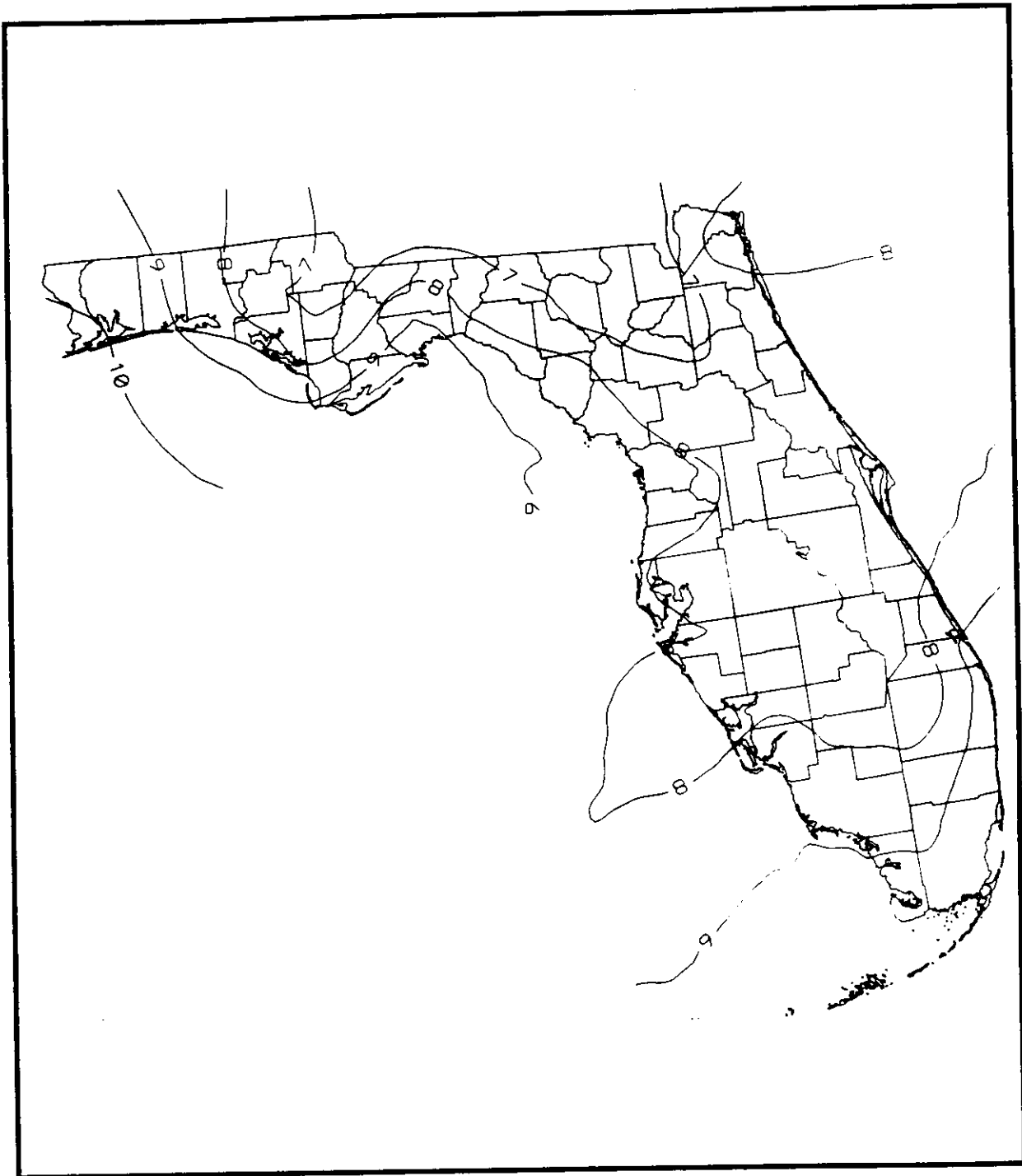
50-Year 4-Day Precipitation (inches)



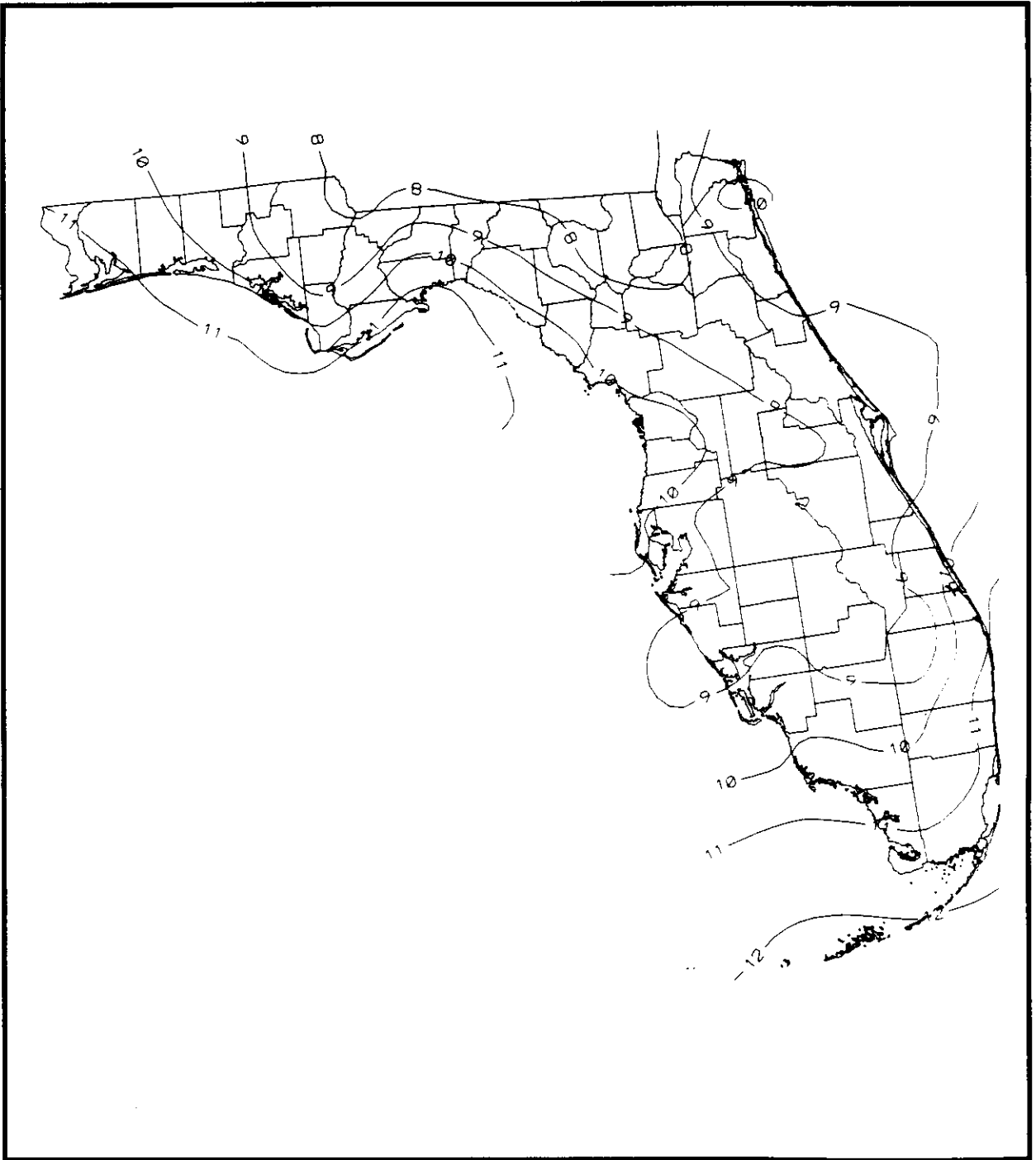
100-Year 4-Day Precipitation (inches)



2-Year 7-Day Precipitation (inches)



5-Year 7-Day Precipitation (inches)



10-Year 7-Day Precipitation (inches)



25-Year 7-Day Precipitation (inches)



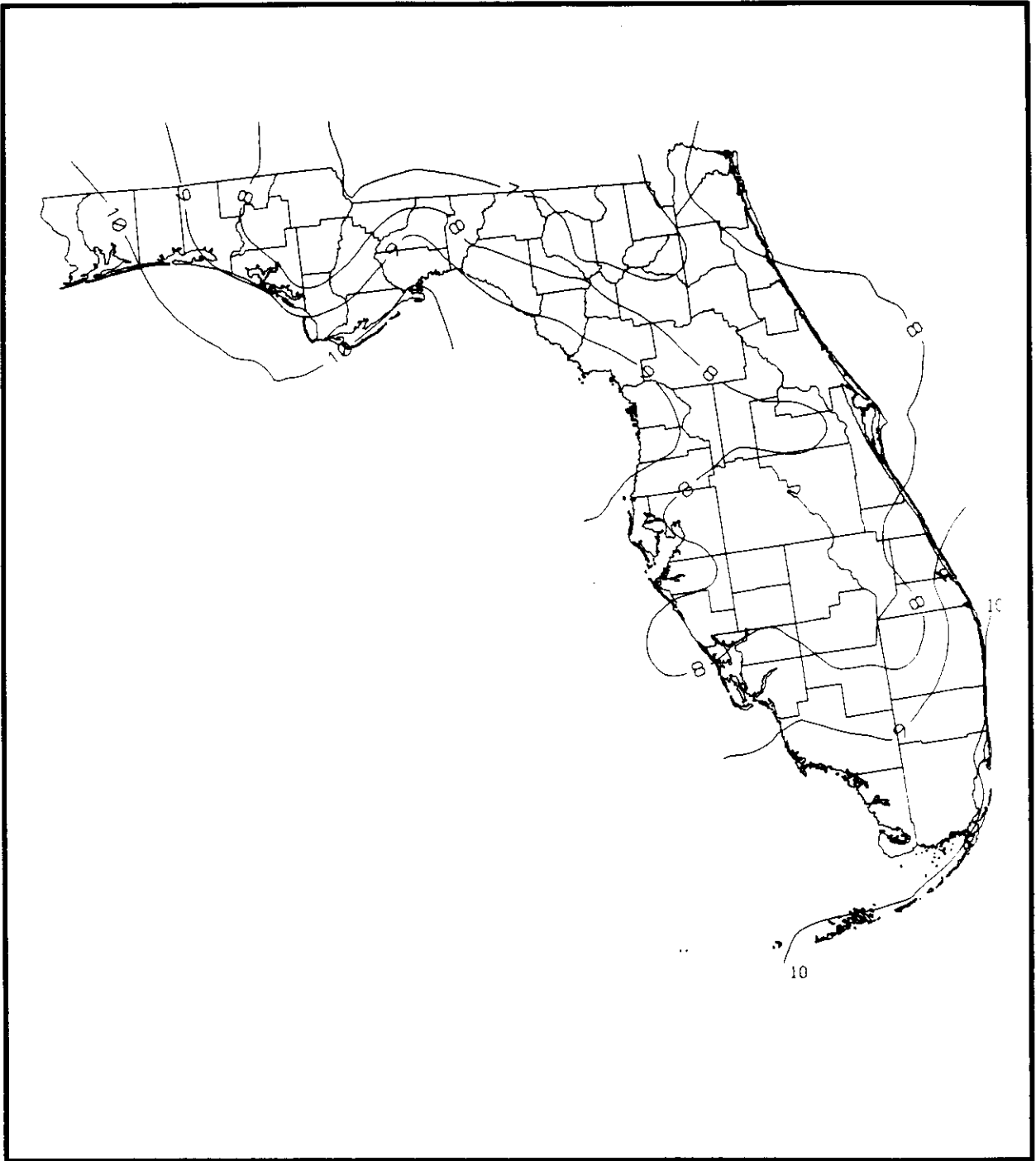
50-Year 7-Day Precipitation (inches)



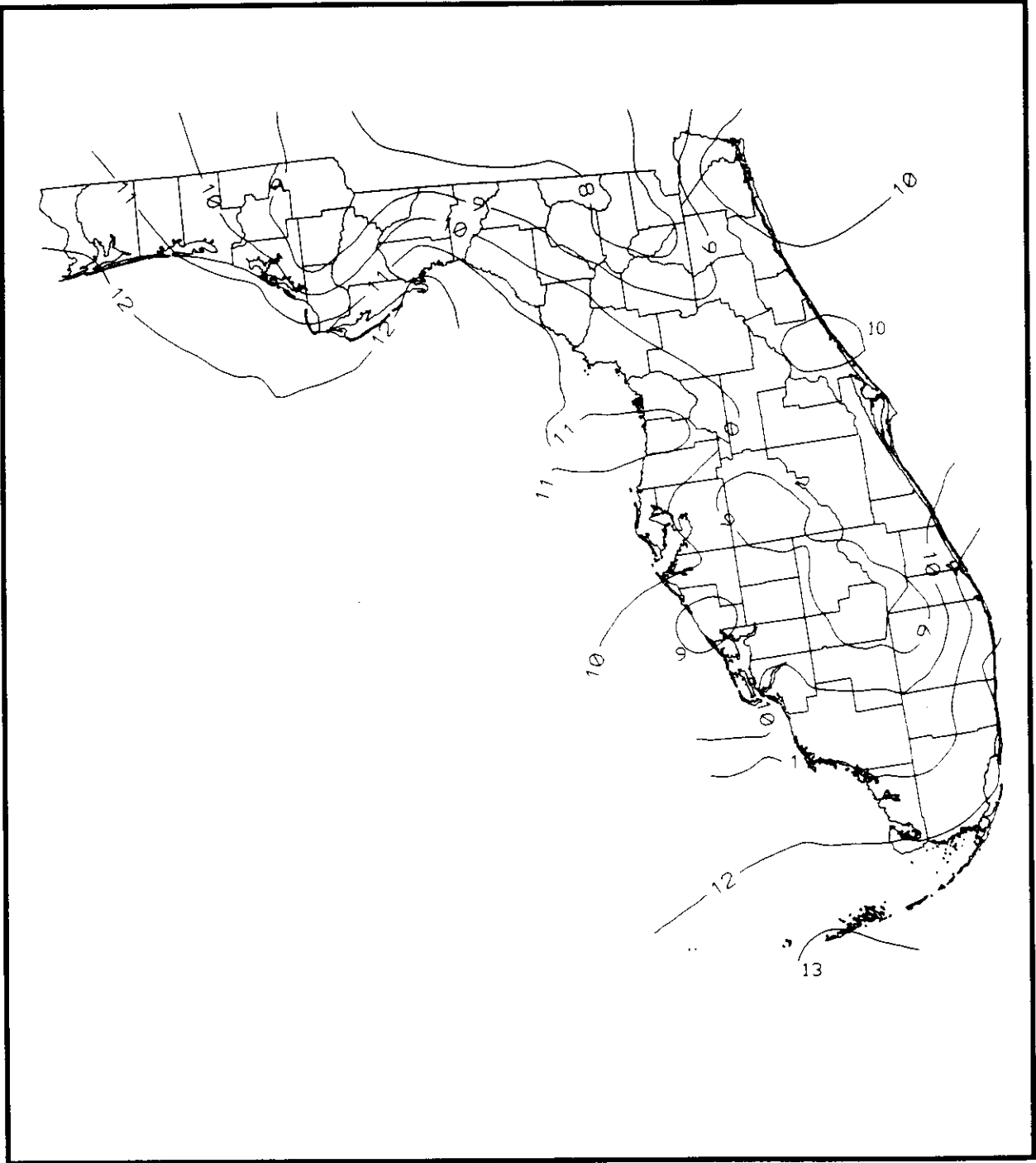
100-Year 7-Day Precipitation (inches)



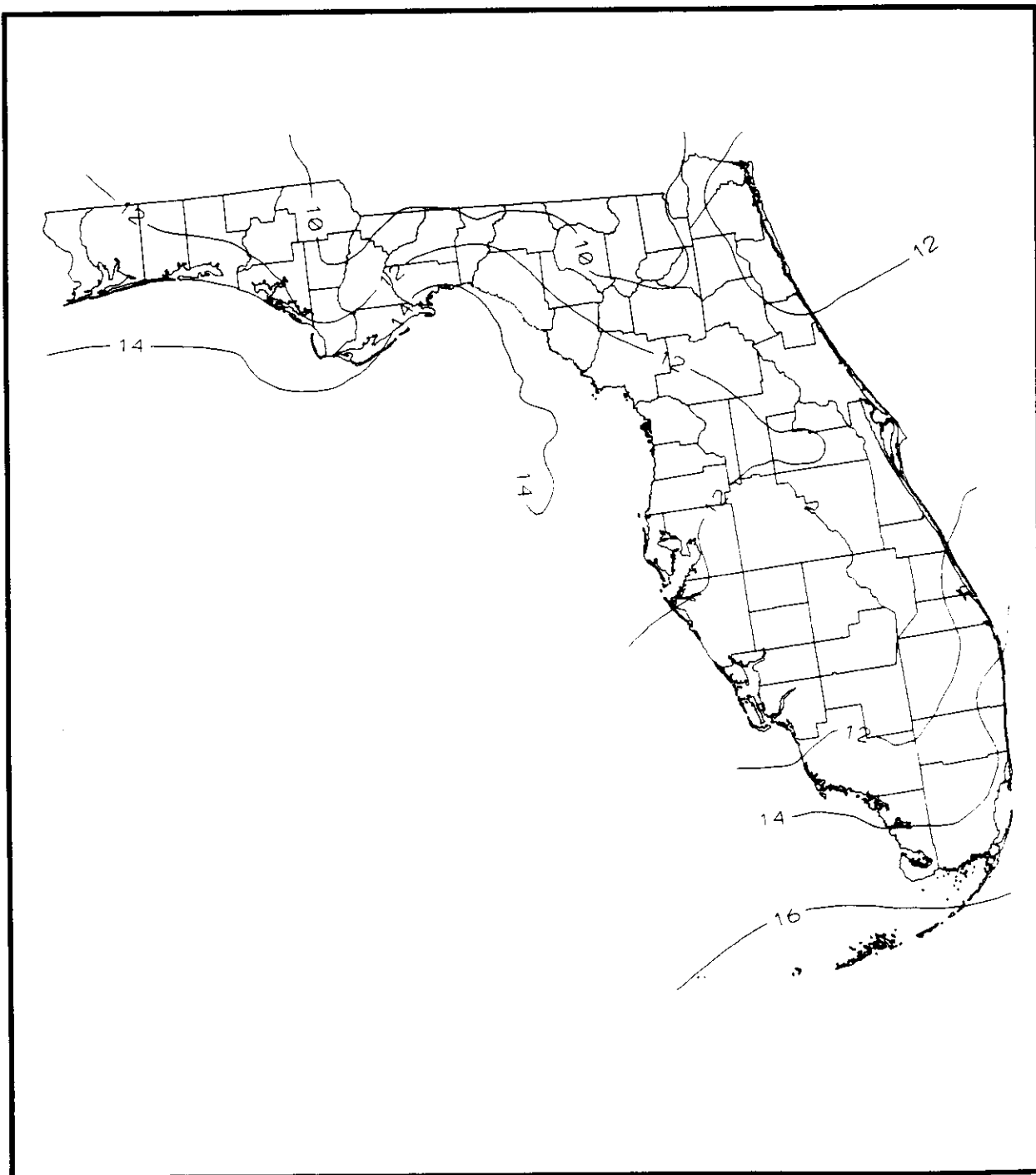
2-Year 10-Day Precipitation (inches)



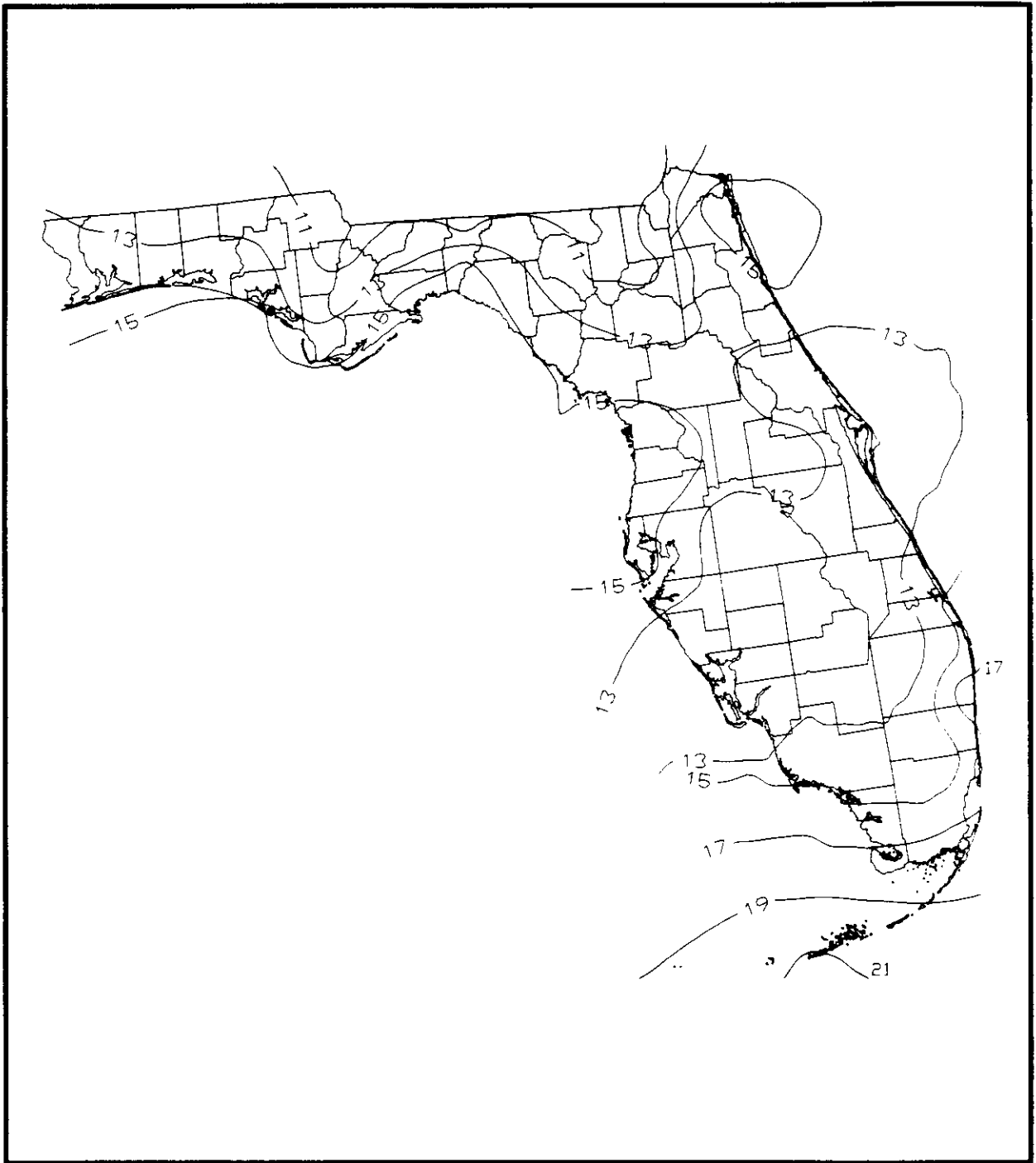
5-Year 10-Day Precipitation (inches)



10-Year 10-Day Precipitation (inches)



25-Year 10-Day Precipitation (inches)



50-Year 10-Day Precipitation (inches)



100-Year 10-Day Precipitation (inches)

APPENDIX B

SUMMARY OF STORM EVENT VOLUMES FOR EACH CITY BASED ON THE LOG PEARSON DISTRIBUTION FIT

1 Day Storm Event Volume (inches)

	Coordinates (meters)		2 Year	5 Year	10 Year	25 Year	50 Year	100 Year
	East	North						
Apalachicola	1062986	800585	5.16	6.90	8.02	9.39	10.38	11.37
Avon Park	1437494	608397	3.90	5.29	6.27	7.55	8.56	9.61
Bainbridge	1085544	936448	3.56	4.98	5.88	7.02	7.85	8.69
Belle Glade	1524358	527256	3.96	5.24	6.06	7.07	7.82	8.56
Blackman	900721	917449	4.57	6.49	7.35	8.10	8.47	8.74
Boca Raton	1588104	507940	4.86	7.00	8.64	10.96	12.89	15.01
Branford	1256010	857581	3.65	4.84	5.64	6.66	7.44	8.24
Bristol	1054633	878532	3.96	5.20	5.96	6.88	7.52	8.15
Brooksville	1330348	704705	4.40	6.22	7.54	9.33	10.77	12.30
Canal Point	1532115	546572	3.95	5.22	6.05	7.07	7.82	8.57
Clewiston	1495404	519537	4.09	5.73	6.88	8.41	9.59	10.83
Coolidge	1151912	965919	3.56	4.76	5.55	6.56	7.32	8.09
Cross City	1242612	816068	4.30	5.95	7.05	8.46	9.52	10.60
Daytona Beach	1454852	793836	4.04	5.28	6.09	7.11	7.86	8.62
Dothan	1018682	848052	4.02	5.47	6.45	7.72	8.70	9.70
Dowling	1230895	884616	3.73	5.15	6.10	7.30	8.21	9.11
Fargo	1279769	935828	3.57	4.89	5.77	6.88	7.71	8.55
Folksston	1328321	965974	4.06	5.39	6.27	7.39	8.24	9.10
Fort Myers	1411654	503203	4.89	6.52	7.57	8.88	9.85	10.81
Gainesville	1319062	825744	3.90	5.23	6.12	7.26	8.12	8.99
Graceville	1005018	927125	3.91	5.42	6.32	7.37	8.09	8.78
Grady	1254630	850073	3.98	5.46	6.36	7.42	8.18	8.91
Homestead	1567965	401023	4.89	6.75	8.10	9.97	11.48	13.10
Inglis	1293712	745490	4.17	5.88	7.09	8.69	9.94	11.24
Jacksonville	1364784	927734	4.36	6.11	7.36	9.06	10.41	11.83
Key West	1458039	278423	4.33	6.91	8.96	11.97	14.55	17.41
Lakeland	1381505	654748	3.77	4.99	5.85	6.99	7.89	8.83
Lamont	1161389	882696	3.80	5.48	6.80	8.74	10.40	12.26
Lynne	1364110	789958	3.75	5.21	6.29	7.78	9.00	10.31
Marineland	1429776	836345	3.82	5.39	6.57	8.25	9.64	11.15
Melbourne	1510841	677942	3.93	5.31	6.21	7.33	8.16	8.98
Miami	1585932	437351	4.92	6.88	8.27	10.16	11.66	13.25
Monticello	1158243	903874	4.21	5.74	6.64	7.67	8.37	9.04
Moore Haven	1485581	536015	3.82	4.91	5.60	6.46	7.09	7.72
Niceville	914238	863380	4.99	6.69	7.79	9.15	10.14	11.13
Orange City	1433616	764843	4.03	5.42	6.31	7.40	8.20	8.99
Orlando	1432729	719492	3.99	5.82	7.08	8.74	10.02	11.33
Ortona	1474168	546572	3.92	5.14	5.95	6.99	7.78	8.58
Panacea	1118929	834216	5.09	7.29	8.90	11.11	12.88	14.76
Panama City	992712	841003	4.54	6.22	7.36	8.83	9.96	11.10
Parrish	1348672	596801	4.26	6.06	7.28	8.85	10.04	11.27
Pennsuco	1566868	444195	4.77	6.62	7.69	8.90	9.75	10.55
Pensacola	841037	854986	5.42	7.17	8.12	9.15	9.81	10.41
Port Mayaca	1530298	558127	4.08	5.23	6.00	6.97	7.70	8.44
Raiford	1319717	871098	3.39	4.50	5.30	6.38	7.26	8.18
St. Leo	1344832	683740	4.23	5.93	7.16	8.81	10.13	11.51
St. Lucie	1560438	579846	4.84	6.68	7.97	9.68	11.03	12.43
St. Petersburg	1314173	814869	4.23	6.01	7.31	9.09	10.51	12.03
Tallahassee	1113281	880124	4.97	6.44	7.36	8.48	9.29	10.08
Tampa	1333041	637243	3.58	5.20	6.41	8.13	9.54	11.08
Venice	1350592	550450	3.91	5.06	5.79	6.68	7.33	7.97
Venus	1454852	571686	3.90	5.24	6.19	7.47	8.48	9.55
Vero Beach	1534762	633316	4.27	5.80	6.81	8.08	9.03	9.98
Wausau	989543	894292	3.77	5.44	6.65	8.30	9.63	11.04
West Palm Beach	1586415	535838	5.24	6.94	8.14	9.74	10.99	12.30
Woodruff	1061327	911171	3.64	4.97	5.82	6.87	7.65	8.43

(Albers Equal-Area Conic map projection coordinates used)

2 Day Storm Event Volume (inches)

	<u>Coordinates (meters)</u>		<u>2 Year</u>	<u>5 Year</u>	<u>10 Year</u>	<u>25 Year</u>	<u>50 Year</u>	<u>100 Year</u>
	<u>East</u>	<u>North</u>						
Apalachicola	1062986	800585	5.84	7.81	9.07	10.61	11.73	12.85
Avon Park	1437494	608397	4.34	5.95	7.09	8.63	9.85	11.13
Bainbridge	1085544	938448	3.93	5.55	6.57	7.82	8.73	9.62
Belle Glade	1524358	527256	4.46	5.91	6.82	7.92	8.71	9.48
Blackman	900721	917449	5.17	7.35	8.30	9.10	9.49	9.76
Boca Raton	1588104	507940	5.47	7.88	9.73	12.38	14.59	17.03
Branford	1256010	857581	4.10	5.46	6.39	7.60	8.54	9.49
Bristol	1054633	878532	4.45	5.87	6.73	7.76	8.49	9.18
Brooksville	1330348	704705	5.00	7.13	8.71	10.89	12.65	14.53
Canal Point	1532115	546572	4.44	5.89	6.83	8.01	8.87	9.74
Clewiston	1495404	519537	4.58	6.42	7.70	9.38	10.67	12.01
Coolidge	1151912	955819	3.96	5.26	6.09	7.12	7.88	8.63
Cross City	1242612	816068	4.91	6.81	8.06	9.63	10.79	11.95
Daytona Beach	1454852	793836	4.57	5.98	6.91	8.08	8.95	9.82
DeLand	1428004	771014	4.41	5.10	5.48	5.91	6.20	6.48
Dothan	1018682	848052	4.47	6.04	7.09	8.43	9.45	10.49
Dowling	1230895	884616	4.17	5.79	6.88	8.26	9.30	10.35
Fargo	1279769	935828	3.96	5.43	6.41	7.64	8.56	9.48
Folkston	1328321	955974	4.56	5.98	6.89	8.03	8.87	9.71
Fort Myers	1411654	503203	5.47	7.24	8.37	9.76	10.77	11.77
Gainesville	1319062	825744	4.36	5.92	6.98	8.35	9.39	10.44
Graceville	1005018	927125	4.43	6.15	7.15	8.28	9.04	9.75
Grady	1254630	850073	4.48	6.22	7.27	8.51	9.39	10.22
Homestead	1567965	401023	5.54	7.65	9.18	11.29	12.99	14.80
Inglis	1293712	745490	4.72	6.73	8.16	10.08	11.58	13.16
Jacksonville	1364784	927734	4.91	6.95	8.43	10.45	12.05	13.73
Key West	1458039	278423	4.90	7.86	10.22	13.66	16.58	19.83
Lakeland	1381505	654748	4.20	5.61	6.61	7.95	9.01	10.12
Lamont	1161389	882696	4.23	6.15	7.68	9.92	11.84	14.00
Lisbon	138883	747452	4.61	4.74	4.84	5.34	6.09	7.28
Lynne	1364110	789958	4.20	5.89	7.14	8.87	10.27	11.77
Marineland	1429776	836345	4.29	6.13	7.54	9.56	11.25	13.10
Melbourne	1510841	677942	4.44	6.03	7.06	8.37	9.34	10.31
Miami	1585932	437351	5.65	7.82	9.34	11.35	12.93	14.58
Monticello	1158243	903874	4.66	6.35	7.31	8.40	9.13	9.81
Moore Haven	1485581	536015	4.25	5.51	6.33	7.35	8.10	8.85
Niceville	914238	863380	5.57	7.48	8.73	10.30	11.46	12.62
Orange City	1433616	764843	4.49	6.07	7.05	8.24	9.10	9.94
Orlando	1432729	719492	4.51	6.57	8.01	9.88	11.32	12.79
Ortona	1474168	546572	4.38	5.82	6.78	8.05	9.01	10.00
Panacea	1118929	834216	5.71	8.18	9.95	12.35	14.25	16.25
Panama City	992712	841003	5.08	7.06	8.41	10.18	11.53	12.92
Parrish	1348672	596801	4.80	6.82	8.16	9.83	11.06	12.29
Pennsuco	1566868	444195	5.45	7.55	8.68	9.91	10.72	11.46
Pensacola	841037	854986	6.23	8.23	9.31	10.46	11.18	11.81
Port Mayaca	1530298	558127	4.56	5.85	6.71	7.79	8.60	9.42
Raiford	1319717	871098	3.74	5.00	5.93	7.20	8.24	9.35
St. Leo	1344832	683740	4.70	6.69	8.13	10.09	11.64	13.29
St. Lucie	1560438	579846	5.49	7.52	8.93	10.78	12.22	13.71
St. Petersburg	1314173	614869	4.75	6.82	8.33	10.40	12.06	13.82
Tallahassee	1113281	880124	5.65	7.29	8.29	9.49	10.35	11.18
Tampa	1333041	637243	4.06	5.93	7.35	9.35	11.00	12.79
Trail Glade	1568442	430151	5.74	6.54	6.66	7.02	7.59	8.49
Venice	1350592	550450	4.37	5.70	6.55	7.59	8.35	9.09
Venus	1454852	571686	4.34	5.88	6.98	8.48	9.68	10.94
Vero Beach	1534762	633316	4.83	6.59	7.73	9.16	10.20	11.24
Wausau	989543	894292	4.15	6.00	7.34	9.17	10.64	12.19
West Palm Beach	1586415	535838	5.92	7.82	9.15	10.92	12.31	13.75
Woodruff	1061327	911171	4.07	5.57	6.50	7.62	8.44	9.22

(Albers Equal-Area Conic map projection coordinates used)

3 Day Storm Event Volume (inches)

	<u>Coordinates (meters)</u>		<u>2 Year</u>	<u>5 Year</u>	<u>10 Year</u>	<u>25 Year</u>	<u>50 Year</u>	<u>100 Year</u>
	East	North						
Apalachicola	1062986	800585	6.25	8.35	9.69	11.33	12.53	13.71
Avon Park	1437494	608397	4.60	6.33	7.58	9.26	10.60	12.02
Bainbridge	1085544	936448	4.14	5.88	6.97	8.29	9.24	10.16
Belle Glade	1524358	527256	4.75	6.31	7.26	8.41	9.23	10.02
Blackman	900721	917449	5.51	7.85	8.86	9.69	10.09	10.36
Boca Raton	1588104	507940	5.83	8.39	10.37	13.21	15.58	18.21
Branford	1256010	857581	4.36	5.83	6.84	8.16	9.18	10.23
Bristol	1054633	878532	4.73	6.25	7.18	8.28	9.05	9.78
Brooksville	1330348	704705	5.32	7.66	9.40	11.80	13.74	15.83
Canal Point	1532115	546572	4.73	6.28	7.29	8.55	9.49	10.42
Clewiston	1495404	519537	4.87	6.83	8.18	9.94	11.30	12.70
Coolidge	1151912	955919	4.20	5.55	6.40	7.44	8.20	8.95
Cross City	1242612	816068	5.27	7.31	8.65	10.31	11.52	12.74
Daytona Beach	1454852	793836	4.88	6.39	7.39	8.64	9.58	10.53
Dothan	1018682	848052	4.74	6.37	7.46	8.85	9.89	10.95
Dowling	1230895	884616	4.42	6.16	7.33	8.82	9.94	11.08
Fargo	1279769	935828	4.19	5.75	6.78	8.08	9.06	10.03
Folkston	1328321	955974	4.85	6.33	7.26	8.40	9.24	10.07
Fort Myers	1411654	503203	5.81	7.67	8.84	10.28	11.32	12.33
Gainesville	1319062	825744	4.63	6.33	7.49	8.99	10.13	11.29
Graceville	1005018	927125	4.74	6.58	7.64	8.82	9.60	10.32
Grady	1254630	850073	4.77	6.66	7.81	9.15	10.09	10.99
Homestead	1567965	401023	5.92	8.17	9.81	12.06	13.87	15.80
Inglis	1293712	745490	5.04	7.22	8.79	10.89	12.54	14.28
Jacksonville	1364784	927734	5.23	7.45	9.06	11.26	13.02	14.90
Key West	1458039	278423	5.24	8.42	10.95	14.64	17.77	21.24
Lakeland	1381505	654748	4.46	5.98	7.06	8.51	9.67	10.88
Lamont	1161389	882696	4.48	6.55	8.19	10.61	12.68	15.02
Lynne	1364110	789958	4.47	6.29	7.64	9.50	11.01	12.63
Marineland	1429776	836345	4.57	6.57	8.11	10.33	12.19	14.24
Melbourne	1510841	677942	4.74	6.44	7.56	8.98	10.03	11.08
Miami	1585932	437351	6.08	8.38	9.96	12.05	13.67	14.35
Monticello	1158243	903874	4.93	6.70	7.71	8.83	9.58	10.26
Moore Haven	1485581	536015	4.50	5.86	6.75	7.87	8.69	9.52
Niceville	914238	863380	5.90	7.95	9.29	10.98	12.23	13.49
Orange City	1433616	764843	4.77	6.44	7.48	8.73	9.62	10.49
Orlando	1432729	719492	4.82	7.02	8.54	10.54	12.08	13.65
Ortona	1474168	546572	4.66	6.21	7.27	8.66	9.73	10.82
Panacea	1118929	834216	6.08	8.70	10.57	13.07	15.05	17.11
Panama City	992712	841003	5.39	7.54	9.03	10.97	12.46	13.99
Parrish	1348672	596801	5.11	7.27	8.67	10.40	11.65	12.89
Pennsuco	1566868	444195	5.85	8.09	9.27	10.51	11.29	12.00
Pensacola	841037	854986	6.70	8.85	10.01	11.22	11.97	12.64
Port Mayaca	1530298	558127	4.85	6.22	7.12	8.27	9.13	10.00
Raiford	1319717	871098	3.95	5.30	6.30	7.68	8.82	10.04
St. Leo	1344832	683740	4.98	7.14	8.70	10.83	12.53	14.32
St. Lucie	1560438	579846	5.86	8.01	9.49	11.43	12.92	14.46
St. Petersburg	1314173	614869	5.05	7.29	8.92	11.16	12.96	14.87
Tallahassee	1113281	880124	6.04	7.79	8.84	10.09	10.97	11.83
Tampa	1333041	637243	4.34	6.36	7.90	10.06	11.85	13.79
Venice	1350592	550450	4.64	6.08	7.00	8.13	8.95	9.75
Venus	1454852	571686	4.60	6.25	7.45	9.08	10.37	11.75
Vero Beach	1534762	633316	5.15	7.05	8.27	9.78	10.89	11.98
Wausau	989543	894292	4.37	6.32	7.74	9.68	11.22	12.86
West Palm Beach	1586415	535838	6.32	8.34	9.75	11.62	13.08	14.60
Woodruff	1061327	911171	4.33	5.92	6.90	8.06	8.89	9.69

(Albers Equal-Area Conic map projection coordinates used)

4 Day Storm Event Volume (inches)

	<u>Coordinates (meters)</u>		<u>2 Year</u>	<u>5 Year</u>	<u>10 Year</u>	<u>25 Year</u>	<u>50 Year</u>	<u>100 Year</u>
	<u>East</u>	<u>North</u>						
Apalachicola	1062986	800585	6.53	8.72	10.12	11.84	13.09	14.33
Avon Park	1437494	608397	4.78	6.60	7.92	9.70	11.13	12.65
Bainbridge	1085544	936448	4.30	6.12	7.25	8.63	9.60	10.55
Belle Glade	1524358	527256	4.96	6.58	7.57	8.76	9.59	10.40
Blackman	900721	917449	5.76	8.21	9.25	10.10	10.51	10.79
Boca Raton	1588104	507940	6.08	8.76	10.82	13.79	16.29	19.04
Branford	1256010	857581	4.54	6.06	7.15	8.55	9.63	10.75
Bristol	1054633	878532	4.93	6.53	7.50	8.65	9.45	10.21
Brooksville	1330348	704705	5.56	8.04	9.88	12.44	14.52	16.76
Canal Point	1532115	546572	4.93	6.55	7.62	8.94	9.93	10.91
Clewiston	1495404	519537	5.07	7.11	8.52	10.35	11.75	13.19
Coolidge	1151912	955919	4.36	5.75	6.62	7.67	8.44	9.17
Cross City	1242612	816068	5.52	7.67	9.06	10.79	12.05	13.30
Daytona Beach	1454852	793836	5.10	6.68	7.73	9.04	10.03	11.03
Dothan	1018682	848052	4.92	6.61	7.73	9.14	10.21	11.28
Dowling	1230895	884616	4.61	6.43	7.66	9.22	10.40	11.59
Fargo	1279769	935828	4.35	5.97	7.04	8.40	9.41	10.42
Folkston	1328321	955974	5.05	6.57	7.52	8.67	9.50	10.32
Fort Myers	1411654	503203	6.06	7.97	9.18	10.65	11.70	12.73
Gainesville	1319062	825744	4.82	6.62	7.85	9.44	10.65	11.89
Graceville	1005018	927125	4.95	6.88	7.98	9.20	9.99	10.72
Grady	1254630	850073	4.98	6.97	8.18	9.61	10.59	11.53
Homestead	1567965	401023	6.19	8.55	10.26	12.61	14.49	16.50
Inglis	1293712	745490	5.27	7.57	9.23	11.46	13.23	15.08
Jacksonville	1364784	927734	5.46	7.80	9.50	11.83	13.70	15.70
Key West	1458039	278423	5.48	8.82	11.47	15.34	18.61	21.24
Lakeland	1381505	654748	4.63	6.23	7.38	8.91	10.13	11.42
Lamont	1161389	882696	4.66	6.82	8.55	11.09	13.28	15.75
Lynne	1364110	789958	4.65	6.57	7.99	9.95	11.53	13.23
Marineland	1429776	836345	4.76	6.88	8.52	10.88	12.86	15.04
Melbourne	1510841	677942	4.95	6.74	7.92	9.41	10.52	11.63
Miami	1585932	437351	6.38	8.77	10.40	12.54	14.19	15.90
Monticello	1158243	903874	5.12	6.96	7.99	9.14	9.89	10.57
Moore Haven	1485581	536015	4.68	6.11	7.05	8.23	9.11	9.99
Niceville	914238	863380	6.14	8.27	9.68	11.46	12.78	14.11
Orange City	1433616	764843	4.96	6.71	7.79	9.08	10.00	10.88
Orlando	1432729	719492	5.03	7.33	8.93	11.01	12.62	14.25
Ortona	1474168	546572	4.85	6.49	7.62	9.10	10.24	11.41
Panacea	1118929	834216	6.34	9.07	11.00	13.59	15.62	17.73
Panama City	992712	841003	5.62	7.89	9.47	11.53	13.11	14.74
Parrish	1348672	596801	5.34	7.59	9.04	10.80	12.08	13.31
Pennsuco	1566868	444195	6.13	8.47	9.68	10.93	11.70	12.37
Pensacola	841037	854986	7.03	9.30	10.50	11.76	12.54	13.22
Port Mayaca	1530298	558127	5.05	6.47	7.41	8.61	9.50	10.41
Raiford	1319717	871098	4.09	5.50	6.56	8.02	9.23	10.53
St. Leo	1344832	683740	5.17	7.45	9.11	11.36	13.16	15.06
St. Lucie	1560438	579846	6.13	8.36	9.89	11.88	13.42	14.99
St. Petersburg	1314173	614869	5.27	7.62	9.34	11.70	13.60	15.61
Tallahassee	1113281	880124	6.32	8.14	9.23	10.51	11.42	12.28
Tampa	1333041	637243	4.54	6.67	8.29	10.57	12.45	14.50
Venice	1350592	550450	4.83	6.35	7.31	8.50	9.37	10.22
Venus	1454852	571686	4.79	6.52	7.78	9.50	10.87	12.32
Vero Beach	1534762	633316	5.39	7.38	8.66	10.23	11.38	12.50
Wausau	989543	894292	4.53	6.56	8.03	10.04	11.64	13.34
West Palm Beach	1586415	535838	6.61	8.70	10.17	12.11	13.63	15.20
Woodruff	1061327	911171	4.51	6.16	7.18	8.38	9.22	10.02

(Albers Equal-Area Conic map projection coordinates used)

7 Day Storm Event Volume (inches)

	Coordinates (meters)		2 Year	5 Year	10 Year	25 Year	50 Year	100 Year
	East	North						
Apalachicola	1062986	800585	7.09	9.46	10.97	12.83	14.18	15.52
Avon Park	1437494	608397	5.14	7.13	8.59	10.57	12.17	13.88
Bainbridge	1085544	936448	4.59	6.58	7.81	9.28	10.30	11.30
Belle Glade	1524358	527256	5.37	7.12	8.19	9.44	10.31	11.15
Blackman	900721	917449	6.24	8.90	10.02	10.92	11.34	11.61
Boca Raton	1588104	507940	6.57	9.46	11.70	14.94	17.66	20.67
Branford	1256010	857581	4.90	6.59	7.76	9.31	10.52	11.76
Bristol	1054633	878532	5.33	7.07	8.12	9.36	10.22	11.05
Brooksville	1330348	704705	6.03	8.77	10.83	13.70	16.04	18.56
Canal Point	1532115	546572	5.33	7.09	8.25	9.70	10.78	11.86
Clewiston	1495404	519537	5.47	7.67	9.18	11.13	12.62	14.15
Coolidge	1151912	955919	4.69	6.15	7.05	8.13	8.89	9.61
Cross City	1242612	816068	6.01	8.36	9.87	11.73	13.07	14.39
Daytona Beach	1454852	793836	5.53	7.24	8.39	9.82	10.91	12.00
Dothan	1018682	848052	5.29	7.07	8.24	9.71	10.81	11.92
Dowling	1230895	884616	4.96	6.95	8.28	10.00	11.28	12.59
Fargo	1279769	935828	4.67	6.41	7.56	9.01	10.10	11.18
Folkston	1328321	955974	5.45	7.05	8.02	9.19	10.02	10.81
Fort Myers	1411654	503203	6.53	8.55	9.82	11.36	12.45	13.51
Gainesville	1319062	825744	5.20	7.18	8.55	10.32	11.68	13.07
Graceville	1005018	927125	5.37	7.47	8.65	9.93	10.76	11.50
Grady	1254630	850073	5.39	7.58	8.92	10.49	11.57	12.59
Homestead	1567965	401023	6.72	9.27	11.13	13.67	15.71	17.88
Inglis	1293712	745490	5.71	8.25	10.09	12.58	14.55	16.63
Jacksonville	1364784	927734	5.91	8.48	10.36	12.95	15.03	17.27
Key West	1458039	278423	5.94	9.59	12.49	16.70	20.26	24.20
Lakeland	1381505	654748	4.98	6.74	7.99	9.69	11.04	12.46
Lamont	1161389	882696	5.01	7.37	9.25	12.04	14.44	17.15
Lynne	1364110	789958	5.02	7.12	8.68	10.82	12.56	14.41
Marineland	1429776	836345	5.14	7.48	9.30	11.94	14.16	16.62
Melbourne	1510841	677942	5.36	7.32	8.61	10.25	11.48	12.71
Miami	1585932	437351	6.97	9.53	11.26	13.50	15.22	16.97
Monticello	1158243	903874	5.49	7.45	8.54	9.73	10.50	11.19
Moore Haven	1485581	536015	5.03	6.60	7.64	8.95	9.92	10.09
Niceville	914238	863380	6.60	8.91	10.45	12.39	13.85	15.32
Orange City	1433616	764843	5.34	7.23	8.39	9.75	10.72	11.65
Orlando	1432729	719492	5.45	7.95	9.67	11.93	13.66	15.44
Ortona	1474168	546572	5.22	7.04	8.30	9.95	11.23	12.55
Panacea	1118929	834216	6.85	9.79	11.85	14.59	16.72	18.93
Panama City	992712	841003	6.05	8.56	10.32	12.61	14.38	16.21
Parrish	1348672	596801	5.78	8.21	9.75	11.59	12.90	14.14
Pennsuco	1566868	444195	6.69	9.22	10.49	11.74	12.49	13.11
Pensacola	841037	854986	7.68	10.16	11.46	12.81	13.64	14.36
Port Mayaca	1530298	558127	5.45	6.97	7.98	9.27	10.23	11.21
Raiford	1319717	871098	4.37	5.91	7.07	8.69	10.03	11.47
St. Leo	1344832	683740	5.55	8.06	9.89	12.39	14.38	16.49
St. Lucie	1560438	579846	6.65	9.04	10.67	12.77	14.39	16.03
St. Petersburg	1314173	614869	5.69	8.27	10.16	12.76	14.84	17.06
Tallahassee	1113281	880124	6.87	8.83	9.99	11.33	12.28	13.17
Tampa	1333041	637243	4.92	7.26	9.04	11.55	13.62	15.88
Venice	1350592	550450	5.20	6.87	7.93	9.24	10.19	11.13
Venus	1454852	571686	5.14	7.04	8.42	10.32	11.83	13.44
Vero Beach	1534762	633316	5.84	8.02	9.40	11.10	12.32	13.52
Wausau	989543	894292	4.83	7.01	8.59	10.74	12.45	14.27
West Palm Beach	1586415	535838	7.16	9.41	10.98	13.07	14.69	16.38
Woodruff	1061327	911171	4.85	6.65	7.73	8.98	9.85	10.67

(Albers Equal-Area Conic map projection coordinates used)

10 Day Storm Event Volume (inches)

	Coordinates (meters)		2 Year	5 Year	10 Year	25 Year	50 Year	100 Year
	East	North						
Apalachicola	1062986	800585	7.44	9.93	11.52	13.47	14.88	16.28
Avon Park	1437494	608397	5.37	7.47	9.01	11.12	12.83	14.67
Bainbridge	1085544	936448	4.78	6.87	8.16	9.69	10.76	11.78
Belle Glade	1524368	527256	5.62	7.47	8.58	9.87	10.77	11.62
Blackman	900721	917449	6.55	9.34	10.51	11.43	11.86	12.14
Boca Raton	1588104	507940	6.89	9.91	12.27	15.66	18.53	21.71
Branford	1258010	857581	5.13	6.91	8.15	9.80	11.08	12.41
Bristol	1054633	878532	5.58	7.41	8.51	9.82	10.72	11.58
Brooksville	1330348	704705	6.33	9.24	11.43	14.50	17.00	19.71
Canal Point	1532115	546572	5.58	7.43	8.65	10.18	11.32	12.46
Clewiston	1495404	519537	5.72	8.03	9.60	11.63	13.18	14.76
Coolidge	1151912	955919	4.89	6.41	7.33	8.41	9.17	9.89
Cross City	1242612	816068	6.33	8.81	10.39	12.32	13.72	15.08
Daytona Beach	1454852	793836	5.80	7.60	8.80	10.32	11.47	12.62
Dothan	1018682	848052	5.52	7.36	8.57	10.08	11.20	12.33
Dowling	1230895	884616	5.19	7.28	8.69	10.49	11.85	13.23
Fargo	1279769	935828	4.87	6.69	7.89	9.41	10.53	11.66
Folkston	1328321	955974	5.71	7.35	8.34	9.52	10.34	11.13
Fort Myers	1411654	503203	6.83	8.93	10.24	11.81	12.93	14.01
Gainesville	1319062	825744	5.43	7.54	8.99	10.88	12.33	13.81
Graceville	1005018	927125	5.64	7.85	9.08	10.40	11.25	12.00
Grady	1254630	850073	5.65	7.97	9.39	11.05	12.19	13.26
Homestead	1567965	401023	7.05	9.74	11.69	14.35	16.48	18.75
Inglis	1293712	745490	5.99	9.69	10.65	13.29	15.40	17.62
Jacksonville	1364784	927734	6.20	8.92	10.91	13.66	15.88	18.26
Key West	1458039	278423	6.23	10.08	13.13	17.56	21.30	25.44
Lakeland	1381505	654748	5.20	7.05	8.38	10.18	11.62	13.13
Lamont	1161389	882696	5.24	7.71	9.70	12.65	15.18	18.05
Lynne	1364110	789958	5.25	7.47	9.11	11.38	13.21	15.16
Marineland	1429776	836345	5.38	7.86	9.80	12.61	14.99	17.62
Melbourne	1510841	677942	5.62	7.68	9.05	10.79	12.09	13.39
Miami	1585832	437351	7.34	10.02	11.81	14.12	15.87	17.66
Monticello	1158243	903874	5.72	7.76	8.89	10.11	10.89	11.59
Moore Haven	1485581	536015	5.25	6.91	8.01	9.41	10.44	11.49
Niceville	914238	863380	6.90	9.32	10.93	12.99	14.53	16.08
Orange City	1433616	764843	5.59	7.56	8.77	10.18	11.18	12.13
Orlando	1432729	719492	5.72	8.34	10.15	12.51	14.33	16.19
Ortona	1474168	546572	5.46	7.39	8.73	10.50	11.86	13.27
Panacea	1118929	834216	7.18	10.24	12.39	15.23	17.43	19.69
Panama City	992712	841003	6.33	8.99	10.86	13.30	15.20	17.15
Parrish	1348672	596801	6.05	8.61	10.20	12.10	13.42	14.67
Pennsuco	1566868	444195	7.04	9.70	11.00	12.26	12.99	13.58
Pensacola	841037	854986	8.09	10.71	12.07	13.49	14.34	15.08
Port Mayaca	1530298	558127	5.70	7.29	8.35	9.69	10.70	11.71
Raiford	1319717	871098	4.55	6.17	7.39	9.11	10.53	12.07
St. Leo	1344832	683740	5.80	8.46	10.40	13.05	15.17	17.41
St. Lucie	1560438	579846	6.98	9.47	11.16	13.34	15.00	16.69
St. Petersburg	1314173	614869	5.95	8.69	10.69	13.43	15.64	17.98
Tallahassee	1113281	880124	7.22	9.26	10.47	11.86	12.82	13.74
Tampa	1333041	637243	5.17	7.64	9.52	12.18	14.37	16.76
Venice	1350592	550450	5.44	7.20	8.32	9.71	10.72	11.71
Venus	1454852	571686	5.37	7.37	8.83	10.84	12.44	14.15
Vero Beach	1534762	633316	6.13	8.42	9.88	11.65	12.93	14.16
Wausau	989543	894292	5.03	7.30	8.94	11.19	12.97	14.86
West Palm Beach	1586415	535838	7.51	9.87	11.51	13.68	15.37	17.13
Woodruff	1061327	911171	5.08	6.96	8.08	9.37	10.25	11.08

(Albers Equal-Area Conic map projection coordinates used)

Apalachicola

	<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	<i>Return Period (years)</i>
<i>Duration (days)</i>	1	5.16	6.90	8.02	9.39	10.38	11.37
	2	5.84	7.81	9.07	10.61	11.73	12.85
	3	6.25	8.35	9.69	11.33	12.53	13.71
	4	6.53	8.72	10.12	11.84	13.09	14.33
	7	7.09	9.46	10.97	12.83	14.18	15.52
	10	7.44	9.93	11.52	13.47	14.88	16.23

Avon Park

	<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	<i>Return Period (years)</i>
<i>Duration (days)</i>	1	3.90	5.29	6.27	7.55	8.56	9.61
	2	4.34	5.95	7.09	8.63	9.85	11.13
	3	4.60	6.33	7.58	9.26	10.60	12.02
	4	4.78	6.60	7.92	9.70	11.13	12.65
	7	5.14	7.13	8.59	10.57	12.17	13.88
	10	5.37	7.47	9.01	11.12	12.83	14.67

Bainbridge

	<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	<i>Return Period (years)</i>
<i>Duration (days)</i>	1	3.56	4.98	5.88	7.02	8.56	9.61
	2	3.93	5.55	6.57	7.82	8.73	9.62
	3	4.14	5.88	6.97	8.29	9.24	10.16
	4	4.30	6.12	7.25	8.63	9.60	10.55
	7	4.59	6.58	7.81	9.28	10.31	11.30
	10	4.78	6.87	8.16	9.69	10.76	11.78

Belle Glade

	<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	<i>Return Period (years)</i>
<i>Duration (days)</i>	1	3.96	5.24	6.06	7.07	8.82	9.56
	2	4.46	5.91	6.82	7.92	8.71	9.48
	3	4.75	6.31	7.26	8.41	9.23	10.02
	4	4.96	6.58	7.57	8.76	9.59	10.40
	7	5.37	7.12	8.19	9.44	10.31	11.15
	10	5.62	7.47	8.58	9.87	10.77	11.62

Blackman

	<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	Return Period (years)
1	4.57	6.49	7.35	8.10	8.47	8.74	
2	5.17	7.35	8.30	9.10	9.49	9.76	
Duration (days)	3	5.51	7.85	8.86	9.89	10.09	10.36
	4	5.76	8.21	9.25	10.10	10.51	10.79
	7	6.24	8.90	10.02	10.92	11.34	11.61
	10	5.55	9.34	10.51	11.43	11.86	12.14

Boca Raton

	<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	Return Period (years)
1	4.86	7.00	8.64	10.96	12.89	15.01	
2	5.47	7.88	9.73	12.38	14.59	17.03	
Duration (days)	3	5.83	8.39	10.37	13.21	15.58	18.21
	4	6.08	8.76	10.82	13.79	16.29	19.04
	7	6.57	9.46	11.70	14.94	17.66	20.67
	10	6.89	9.91	12.27	15.66	18.53	21.71

Branford

	<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	Return Period (years)
1	3.65	4.84	5.64	6.66	7.44	8.24	
2	4.10	5.46	6.39	7.60	8.54	9.49	
Duration (days)	3	4.36	5.83	6.84	8.16	9.18	10.23
	4	4.54	6.08	7.15	8.55	9.63	10.75
	7	4.90	6.59	7.76	9.31	10.52	11.76
	10	5.13	6.91	8.15	9.80	11.08	12.41

Bristol

	<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	Return Period (years)
1	3.96	5.20	5.96	6.88	7.52	8.15	
2	4.45	5.87	6.73	7.76	8.49	9.18	
Duration (days)	3	7.73	6.25	7.18	8.28	9.05	9.78
	4	7.93	6.53	7.50	8.65	9.45	10.21
	7	5.33	7.07	8.12	9.36	10.22	11.05
	10	5.58	7.41	8.51	9.82	10.72	11.58

Brooksville

		<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	<i>Return Period (years)</i>
<i>Duration (days)</i>	1	4.40	6.22	7.54	9.33	10.77	12.30	
	2	5.00	7.13	8.71	10.89	12.65	14.53	
	3	5.32	7.66	9.40	11.80	13.74	15.83	
	4	5.56	8.04	9.88	12.44	14.52	16.76	
	7	6.03	8.77	10.83	13.70	16.04	18.56	
	10	6.33	9.24	11.43	14.50	17.00	19.71	

Canal Point

		<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	<i>Return Period (years)</i>
<i>Duration (days)</i>	1	3.95	5.22	6.05	7.07	7.82	8.57	
	2	4.44	5.89	6.83	8.01	8.87	9.74	
	3	4.73	6.28	7.29	8.55	9.49	10.42	
	4	4.93	6.55	7.62	8.94	9.93	10.91	
	7	5.33	7.09	8.25	9.70	10.78	11.86	
	10	5.58	7.43	8.65	10.18	11.32	12.46	

Clewiston

		<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	<i>Return Period (years)</i>
<i>Duration (days)</i>	1	4.09	5.73	6.88	8.41	9.59	10.83	
	2	4.58	6.42	7.70	9.38	10.67	12.01	
	3	4.87	6.83	8.18	9.94	11.30	12.70	
	4	5.07	7.11	8.52	10.35	11.75	13.19	
	7	5.47	7.67	9.18	11.13	12.62	14.15	
	10	5.72	8.03	9.60	11.63	13.18	14.76	

Coolidge

		<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	<i>Return Period (years)</i>
<i>Duration (days)</i>	1	3.56	4.76	5.55	6.56	7.32	8.09	
	2	3.96	5.26	6.09	7.12	7.88	8.63	
	3	4.20	5.55	6.40	7.44	8.20	8.95	
	4	4.36	5.75	6.62	7.67	8.44	9.17	
	7	4.69	6.15	7.05	8.13	8.89	9.61	
	10	4.89	6.41	7.33	8.41	9.17	9.89	

Cross City

		<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	<i>Return Period (years)</i>
<i>Duration (days)</i>	1	4.30	5.95	7.05	8.46	9.52	10.60	
	2	4.91	6.81	8.06	9.63	10.79	11.95	
	3	5.27	7.31	8.65	10.31	11.52	12.74	
	4	5.52	7.67	9.06	10.79	12.05	13.30	
	7	6.01	8.36	9.87	11.73	13.07	14.39	
	10	6.33	8.81	10.39	12.32	13.72	15.08	

Daytona Beach

		<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	<i>Return Period (years)</i>
<i>Duration (days)</i>	1	4.04	5.28	6.09	7.11	7.86	8.62	
	2	4.57	5.98	6.91	8.08	8.95	9.82	
	3	4.88	6.39	7.39	8.64	9.58	10.53	
	4	5.10	6.98	7.73	9.04	10.03	11.03	
	7	5.53	7.24	8.39	9.82	10.91	12.00	
	10	5.80	7.60	8.80	10.32	11.47	12.62	

Dothan

		<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	<i>Return Period (years)</i>
<i>Duration (days)</i>	1	4.02	5.47	6.45	7.72	8.70	9.70	
	2	4.47	6.04	7.09	8.43	9.45	10.49	
	3	4.74	6.37	7.46	8.85	9.89	10.95	
	4	4.92	6.61	7.73	9.14	10.21	11.28	
	7	5.29	7.07	8.24	9.71	10.81	11.92	
	10	5.52	7.36	8.57	10.08	11.20	12.33	

Dowling

		<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	<i>Return Period (years)</i>
<i>Duration (days)</i>	1	3.73	5.15	6.10	7.30	8.21	9.11	
	2	4.17	5.79	6.88	8.26	9.30	10.35	
	3	4.42	6.16	7.33	8.82	9.94	11.08	
	4	4.61	6.43	7.66	9.22	10.40	11.59	
	7	4.96	6.95	8.28	10.00	11.28	12.59	
	10	5.19	7.28	8.69	10.49	11.85	13.23	

Fargo

		<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	<i>Return Period (years)</i>
<i>Duration (days)</i>	1	3.57	4.89	5.77	6.88	7.71	8.55	
	2	3.96	5.43	6.41	7.64	8.56	9.48	
	3	4.19	5.75	6.78	8.08	9.06	10.03	
	4	4.35	5.97	7.04	8.40	9.41	10.42	
	7	4.67	6.41	7.56	9.01	10.10	11.18	
	10	4.87	6.69	7.89	9.41	10.53	11.66	

Folkston

		<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	<i>Return Period (years)</i>
<i>Duration (days)</i>	1	4.06	5.39	6.27	7.39	8.24	9.10	
	2	4.56	5.98	6.89	8.03	8.87	9.71	
	3	4.85	6.33	7.26	8.40	9.24	10.07	
	4	5.05	6.57	7.52	8.67	9.50	10.32	
	7	5.45	7.05	8.02	9.19	10.02	10.81	
	10	5.71	7.35	8.34	9.52	10.34	11.13	

Fort Myers

		<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	<i>Return Period (years)</i>
<i>Duration (days)</i>	1	4.89	6.52	7.57	8.88	9.85	10.81	
	2	5.47	7.24	8.37	9.76	10.77	11.77	
	3	5.81	7.67	8.84	10.28	11.32	12.33	
	4	6.06	7.97	9.18	10.65	11.70	12.73	
	7	6.53	8.55	9.82	11.36	12.45	13.51	
	10	6.83	8.93	10.24	11.81	12.93	14.01	

Gainesville

		<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	<i>Return Period (years)</i>
<i>Duration (days)</i>	1	3.90	5.23	6.12	7.26	8.12	8.99	
	2	4.36	5.92	6.98	8.35	9.39	10.44	
	3	4.63	6.33	7.49	8.99	10.13	11.29	
	4	4.82	6.62	7.85	9.44	10.65	11.89	
	7	5.20	7.18	8.55	10.32	10.68	13.07	
	10	5.43	7.54	8.99	10.88	12.33	13.81	

Graceville

		<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	<i>Return Period (years)</i>
<i>Duration (days)</i>	1	3.91	5.42	6.32	7.37	8.09	8.78	
	2	4.43	6.15	7.15	8.28	9.04	9.75	
	3	4.74	6.58	7.64	8.82	9.60	10.32	
	4	4.95	6.88	7.98	9.20	9.99	10.72	
	7	5.37	7.47	8.65	9.93	10.76	11.50	
	10	5.64	7.85	9.08	10.40	11.25	12.00	

Grady

		<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	<i>Return Period (years)</i>
<i>Duration (days)</i>	1	3.98	5.46	6.36	7.42	8.18	8.91	
	2	4.48	6.22	7.27	8.51	9.39	10.22	
	3	4.77	6.66	7.81	9.15	10.09	10.99	
	4	4.98	6.97	8.18	9.61	10.59	11.53	
	7	5.39	7.58	8.92	10.49	11.57	12.59	
	10	5.65	7.97	9.39	11.05	12.19	13.26	

Homestead

		<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	<i>Return Period (years)</i>
<i>Duration (days)</i>	1	4.89	6.75	8.10	9.97	11.48	13.10	
	2	5.54	7.65	9.18	11.29	12.99	14.80	
	3	5.92	8.17	9.81	12.06	13.87	15.80	
	4	6.19	8.55	10.26	12.61	14.49	16.50	
	7	6.72	9.27	11.13	13.67	15.71	17.88	
	10	7.05	9.74	11.69	14.35	16.48	18.75	

Inglis

		<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	<i>Return Period (years)</i>
<i>Duration (days)</i>	1	4.17	5.88	7.09	8.69	9.94	11.24	
	2	4.72	6.73	8.16	10.08	11.58	13.16	
	3	5.04	7.22	8.79	10.89	12.54	14.28	
	4	5.27	7.57	9.23	11.46	13.23	15.08	
	7	5.71	8.25	10.09	12.58	14.55	16.63	
	10	5.99	8.69	10.65	13.29	15.40	17.62	

Jacksonville

		<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	<i>Return Period (years)</i>
<i>Duration (days)</i>	1	4.36	6.11	7.36	9.06	10.41	11.83	
	2	4.91	6.85	8.43	10.45	12.05	13.73	
	3	5.23	7.45	9.06	11.26	13.02	14.90	
	4	5.46	7.80	9.50	11.83	13.70	15.70	
	7	5.91	8.48	10.36	12.95	15.03	17.27	
	10	6.20	8.92	10.91	13.66	15.88	18.26	

Key West

		<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	<i>Return Period (years)</i>
<i>Duration (days)</i>	1	4.33	6.91	8.96	11.97	14.55	17.41	
	2	4.90	7.86	10.22	13.66	16.58	19.83	
	3	5.24	8.42	10.95	14.64	17.77	21.24	
	4	5.48	8.82	11.47	15.34	18.61	22.24	
	7	5.94	9.59	12.49	16.70	20.26	24.20	
	10	6.23	10.08	13.13	17.56	21.30	25.44	

Lakeland

		<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	<i>Return Period (years)</i>
<i>Duration (days)</i>	1	3.77	4.99	5.85	6.99	7.89	8.83	
	2	4.20	5.61	6.61	7.95	9.01	10.12	
	3	4.46	5.98	7.06	8.51	9.67	10.88	
	4	4.63	6.23	7.38	8.91	10.13	11.42	
	7	4.98	6.74	7.99	9.69	11.04	12.46	
	10	5.20	7.05	8.38	10.18	11.62	13.13	

Lamont

		<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	<i>Return Period (years)</i>
<i>Duration (days)</i>	1	3.80	5.48	6.80	8.74	10.40	12.26	
	2	4.23	6.15	7.68	9.92	11.84	14.00	
	3	4.48	6.55	8.19	10.61	12.68	15.02	
	4	4.66	6.82	8.55	11.09	13.28	15.75	
	7	5.01	7.37	9.25	12.04	14.44	17.15	
	10	5.24	7.71	9.70	12.65	15.18	18.05	

Lynne

		<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	<i>Return Period (years)</i>
	1	3.75	5.21	6.29	7.78	9.00	10.31	
	2	4.20	5.89	7.14	8.87	10.27	11.77	
<i>Duration (days)</i>	3	4.47	6.29	7.64	9.50	11.01	12.62	
	4	4.65	6.57	7.99	9.95	11.53	13.23	
	7	5.02	7.12	8.68	10.82	12.56	14.41	
	10	5.25	7.47	9.11	11.38	13.21	15.16	

Marineland

		<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	<i>Return Period (years)</i>
	1	3.82	5.39	6.57	8.25	9.64	11.15	
	2	4.29	6.13	7.54	9.56	11.25	13.10	
<i>Duration (days)</i>	3	4.57	6.57	8.11	10.33	12.19	14.24	
	4	4.76	6.88	8.52	10.88	12.86	15.04	
	7	5.14	7.48	9.30	11.94	14.16	16.62	
	10	5.38	7.86	9.80	12.61	14.99	17.62	

Melbourne

		<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	<i>Return Period (years)</i>
	1	3.93	5.31	6.21	7.33	8.16	8.98	
	2	4.44	6.03	7.06	8.37	9.34	10.31	
<i>Duration (days)</i>	3	4.74	6.44	7.56	8.98	10.03	11.08	
	4	4.95	6.74	7.92	9.41	10.52	11.63	
	7	5.36	7.32	8.61	10.25	11.48	12.71	
	10	5.62	7.68	9.05	10.79	12.09	13.39	

Miami

		<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	<i>Return Period (years)</i>
	1	4.92	6.88	8.27	10.16	11.66	13.25	
	2	5.65	7.82	9.34	11.35	12.93	14.58	
<i>Duration (days)</i>	3	6.08	8.38	9.96	12.05	13.67	15.35	
	4	6.38	8.77	10.40	12.54	14.19	15.90	
	7	6.97	9.53	11.26	13.50	15.22	16.97	
	10	7.34	10.02	11.81	14.12	15.87	17.66	

Monticello

		<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	<i>Return Period (years)</i>
<i>Duration (days)</i>	1	4.21	5.74	6.64	7.67	8.37	9.04	
	2	4.66	6.35	7.31	8.40	9.13	9.81	
	3	4.93	6.70	7.71	8.83	9.58	10.26	
	4	5.12	6.96	7.99	9.14	9.89	10.57	
	7	5.49	7.45	8.54	9.73	10.50	11.19	
	10	5.72	7.76	8.89	10.11	10.89	11.59	

Moore Haven

		<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	<i>Return Period (years)</i>
<i>Duration (days)</i>	1	3.82	4.91	5.60	6.46	7.09	7.72	
	2	4.25	5.51	6.33	7.35	8.10	8.85	
	3	4.50	5.86	6.75	7.87	8.69	9.52	
	4	4.68	6.11	7.05	8.23	9.11	9.99	
	7	5.03	6.60	7.64	8.95	9.92	10.80	
	10	5.25	6.91	8.01	9.41	10.44	11.49	

Niceville

		<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	<i>Return Period (years)</i>
<i>Duration (days)</i>	1	4.99	6.69	7.79	9.15	10.14	11.13	
	2	5.57	7.48	8.73	10.30	11.46	12.62	
	3	5.90	7.95	9.29	10.98	12.23	13.49	
	4	6.14	8.27	9.68	11.46	12.78	14.11	
	7	6.60	8.91	10.45	12.39	13.85	15.32	
	10	6.90	9.32	10.93	12.99	14.53	16.08	

Orange City

		<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	<i>Return Period (years)</i>
<i>Duration (days)</i>	1	4.03	5.42	6.31	7.40	8.20	8.99	
	2	4.49	6.07	7.05	8.24	9.10	9.94	
	3	4.77	6.44	7.48	8.73	9.62	10.49	
	4	4.96	6.71	7.79	9.08	10.00	10.88	
	7	5.34	7.23	8.39	9.75	10.72	11.65	
	10	5.59	7.56	8.77	10.18	11.18	12.13	

Orlando

		<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	<i>Return Period (years)</i>
	1	3.99	5.82	7.08	8.74	10.02	11.33	
	2	4.51	6.57	8.01	9.88	11.32	12.79	
<i>Duration (days)</i>	3	4.82	7.02	8.54	10.54	12.08	13.65	
	4	5.03	7.33	8.93	11.01	12.62	14.25	
	7	5.45	7.95	9.67	11.93	13.66	15.44	
	10	5.72	8.34	10.15	12.51	14.33	16.19	

Ortona

		<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	<i>Return Period (years)</i>
	1	3.92	5.14	5.95	6.99	7.78	8.58	
	2	4.38	5.82	6.78	8.05	9.01	10.00	
<i>Duration (days)</i>	3	4.66	6.21	7.27	8.66	9.73	10.82	
	4	4.85	6.49	7.62	9.10	10.24	11.41	
	7	5.22	7.04	8.30	9.95	11.23	12.55	
	10	5.46	7.39	8.73	10.50	11.86	13.27	

Panacea

		<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	<i>Return Period (years)</i>
	1	5.09	7.29	8.90	11.11	12.88	14.76	
	2	5.71	8.18	9.95	12.35	14.25	16.25	
<i>Duration (days)</i>	3	6.08	8.70	10.57	13.07	15.05	17.11	
	4	6.34	9.07	11.00	13.59	15.62	17.73	
	7	6.85	9.79	11.85	14.59	16.72	18.93	
	10	7.18	10.24	12.39	15.23	17.43	19.69	

Panama City

		<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	<i>Return Period (years)</i>
	1	4.54	6.22	7.36	8.83	9.96	11.10	
	2	5.08	7.06	8.41	10.18	11.53	12.92	
<i>Duration (days)</i>	3	5.39	7.54	9.03	10.97	12.46	13.99	
	4	5.62	7.89	9.47	11.53	13.11	14.74	
	7	6.05	8.56	10.32	12.61	14.38	16.21	
	10	6.33	8.99	10.86	13.30	15.20	17.15	

Raiford

		<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	<i>Return Period (years)</i>
<i>Duration (days)</i>	1	3.39	4.50	5.30	6.38	7.26	8.18	
	2	3.74	5.00	5.93	7.20	8.24	9.35	
	3	3.95	5.30	6.30	7.68	8.82	10.04	
	4	4.09	5.50	6.56	8.02	9.23	10.53	
	7	4.37	5.91	7.07	8.69	10.03	11.47	
	10	4.55	6.17	7.39	9.11	10.53	12.07	

St. Leo

		<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	<i>Return Period (years)</i>
<i>Duration (days)</i>	1	4.23	5.93	7.16	8.81	10.13	11.51	
	2	4.70	6.69	8.13	10.09	11.64	13.29	
	3	4.98	7.14	8.70	10.83	12.53	14.32	
	4	5.17	7.45	9.11	11.36	13.16	15.06	
	7	5.55	8.06	9.89	12.39	14.38	16.49	
	10	5.80	8.46	10.40	13.05	15.17	17.41	

St. Lucie

		<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	<i>Return Period (years)</i>
<i>Duration (days)</i>	1	4.84	6.68	7.97	9.68	11.03	12.43	
	2	5.49	7.52	8.93	10.78	12.22	13.71	
	3	5.86	8.01	9.49	11.43	12.92	14.46	
	4	6.13	8.36	9.89	11.88	13.42	14.99	
	7	6.65	9.04	10.67	12.77	14.39	16.03	
	10	6.98	9.47	11.16	13.34	15.00	16.89	

St. Petersburg

		<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	<i>Return Period (years)</i>
<i>Duration (days)</i>	1	4.23	6.01	7.31	9.09	10.51	12.03	
	2	4.75	6.82	8.33	10.40	12.06	13.82	
	3	5.05	7.29	8.92	11.16	12.96	14.87	
	4	5.27	7.62	9.34	11.70	13.60	15.61	
	7	5.69	8.27	10.16	12.76	14.84	17.06	
	10	5.95	8.69	10.69	13.43	15.64	17.98	

Tallahassee

	<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	Return Period (years)
1	4.97	6.44	7.36	8.48	9.29	10.08	
2	5.65	7.29	8.29	9.49	10.35	11.18	
3	6.04	7.79	8.84	10.09	10.97	11.83	
4	6.32	8.14	9.23	10.51	11.42	12.28	
7	6.87	8.83	9.99	11.33	12.28	13.17	
10	7.22	9.26	10.47	11.86	12.82	13.74	

Tampa

	<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	Return Period (years)
1	3.58	5.20	6.41	8.13	9.54	11.08	
2	4.06	5.93	7.35	9.35	11.00	12.79	
3	4.34	6.36	7.90	10.06	11.85	13.79	
4	4.54	6.67	8.29	10.57	12.45	14.50	
7	4.92	7.26	9.04	11.55	13.62	15.88	
10	5.17	7.64	9.52	12.18	14.37	16.76	

Venice

	<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	Return Period (years)
1	3.91	5.06	5.79	6.68	7.33	7.97	
2	4.37	5.70	6.55	7.59	8.35	9.09	
3	4.64	6.08	7.00	8.13	8.95	9.75	
4	4.83	6.35	7.31	8.50	9.37	10.22	
7	5.20	6.87	7.93	9.24	10.19	11.13	
10	5.44	7.20	8.32	9.71	10.72	11.71	

Venus

	<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	Return Period (years)
1	3.90	5.24	6.19	7.47	8.48	9.55	
2	4.34	5.88	6.96	8.48	9.68	10.94	
3	4.60	6.25	7.45	9.08	10.37	11.75	
4	4.79	6.52	7.78	9.50	10.87	12.32	
7	5.14	7.04	8.42	10.32	11.83	13.44	
10	5.37	7.37	8.83	10.84	12.44	14.15	

Vero Beach

		<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	Return Period (years)
Duration (days)	1	4.27	5.80	6.81	8.08	9.03	9.98	
	2	4.83	6.59	7.73	9.16	10.20	11.24	
	3	5.15	7.05	8.27	9.78	10.89	11.98	
	4	5.39	7.38	8.66	10.23	11.38	12.50	
	7	5.84	8.02	9.40	11.10	12.32	13.52	
	10	6.13	8.42	9.88	11.65	12.93	14.16	

Wausau

		<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	Return Period (years)
Duration (days)	1	3.77	5.44	6.65	8.30	9.63	11.04	
	2	4.15	6.00	7.34	9.17	10.64	12.19	
	3	4.37	6.32	7.74	9.68	11.22	12.86	
	4	4.53	6.56	8.03	10.04	11.64	13.34	
	7	4.83	7.01	8.59	10.74	12.45	14.27	
	10	5.03	7.30	8.94	11.19	12.97	14.86	

West Palm Beach

		<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	Return Period (years)
Duration (days)	1	5.24	6.94	8.14	9.74	10.99	12.30	
	2	5.92	7.82	9.15	10.92	12.31	13.75	
	3	6.32	8.34	9.75	11.62	13.08	14.60	
	4	6.61	8.70	10.17	12.11	13.63	15.20	
	7	7.16	9.41	10.98	13.07	14.69	16.38	
	10	7.51	9.87	11.51	13.68	15.37	17.13	

Woodruff

		<u>2</u>	<u>5</u>	<u>10</u>	<u>25</u>	<u>50</u>	<u>100</u>	Return Period (years)
Duration (days)	1	3.64	4.97	5.82	6.87	7.65	8.43	
	2	4.07	5.57	6.50	7.62	8.44	9.22	
	3	4.33	5.92	6.90	8.06	8.89	9.69	
	4	4.51	6.16	7.18	8.38	9.22	10.02	
	7	4.85	6.65	7.73	8.98	9.85	10.67	
	10	5.08	6.96	8.08	9.37	10.25	11.08	

APPENDIX C

MEAN ANNUAL AND MAXIMUM RAINFALLS FOR VARIOUS DURATION STORMS

Apalachicola

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1942	1.8	2.2	2.8	3.1	3.7	3.7	5.0	6.7	7.6	8.8	8.8	8.8	8.8
1943	1.7	2.0	2.7	4.0	5.8	5.8	6.9	8.9	6.4	6.4	6.4	6.4	6.4
1944	1.6	2.1	3.8	4.5	4.9	4.9	5.1	5.1	5.1	5.1	5.1	5.1	5.1
1945	1.3	1.4	1.6	1.7	1.7	2.0	2.2	2.5	3.7	4.5	4.5	4.5	4.5
1946	2.8	4.9	8.0	9.0	9.2	9.3	10.1	10.1	10.1	10.1	10.1	10.6	10.9
1947	1.2	2.2	3.1	3.3	4.0	4.0	4.7	4.8	4.8	4.8	4.8	4.8	4.8
1948	1.6	2.1	3.3	4.6	6.9	7.4	8.2	8.2	8.2	8.4	8.4	8.4	8.4
1949	2.4	3.6	5.3	5.3	5.3	5.3	6.3	6.3	6.4	5.5	5.5	6.1	6.1
1950	2.0	4.0	4.1	4.6	4.7	4.7	6.0	6.9	7.3	7.9	7.9	8.1	8.1
1951	3.2	4.8	7.3	8.7	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
1952	1.6	1.9	2.2	2.5	2.8	2.8	3.6	3.7	4.2	5.5	5.7	6.6	6.6
1953	1.8	2.8	3.0	3.8	6.4	7.2	6.9	9.6	9.6	9.7	9.7	9.7	9.7
1954	2.3	4.3	4.3	4.4	4.4	4.4	5.0	5.0	5.0	5.0	5.0	5.0	5.0
1955	1.8	2.6	2.6	2.6	2.6	2.6	4.2	4.3	5.5	5.5	5.5	5.5	5.5
1956	3.0	3.3	3.5	3.6	3.6	3.6	3.6	4.6	6.3	6.7	7.0	7.5	7.5
1957	1.7	2.9	3.5	3.8	5.3	5.6	7.8	7.8	7.6	7.6	7.6	7.6	7.6
1958	1.7	2.9	3.5	3.8	5.3	5.6	7.8	7.8	7.6	7.6	7.6	7.6	7.6
1959	2.0	3.1	4.9	6.0	6.6	6.9	7.3	7.6	10.5	12.4	12.9	16.9	16.9
1960	1.4	1.7	2.4	3.2	4.1	4.5	6.3	7.0	7.0	7.0	7.0	7.0	7.0
1961	1.5	2.2	2.9	3.0	3.3	3.3	3.7	4.0	4.3	4.8	5.5	5.5	5.5
1962	1.8	2.1	2.2	2.2	2.2	2.2	3.2	3.7	3.8	4.0	4.0	4.0	4.0
1963	2.2	2.4	4.0	4.3	4.7	4.8	5.4	6.2	6.6	6.3	9.5	9.8	9.8
1964	1.5	2.5	3.6	6.2	5.4	5.5	7.8	7.8	7.8	7.9	7.9	7.9	7.9
1965	3.3	5.0	6.0	5.3	5.7	6.3	6.3	6.3	6.3	6.9	7.0	8.1	8.8
1966	2.0	3.4	4.1	4.5	6.3	6.7	7.5	7.8	7.8	8.0	8.0	8.7	8.7
1967	2.3	2.9	3.1	3.1	3.2	3.3	4.1	6.0	6.1	6.1	6.1	6.1	6.1
1968	2.5	2.8	3.5	4.1	4.3	4.4	4.6	6.2	6.0	6.1	6.1	6.1	6.1
1969	1.8	2.3	2.8	3.1	4.2	4.9	7.1	7.3	7.4	7.7	7.8	7.8	7.8
1970	3.6	5.0	6.7	6.0	6.1	6.1	6.1	7.2	8.2	10.7	12.4	12.9	13.8
1971	1.2	1.4	1.9	2.1	2.5	3.1	3.2	3.2	3.2	3.2	3.2	3.2	4.1
1972	1.4	1.5	1.8	2.2	2.8	2.8	3.1	3.4	3.4	3.4	3.4	3.4	3.4
1973	2.3	2.8	3.4	3.4	3.4	3.4	3.4	3.9	4.3	4.5	6.4	6.4	6.4
1974	1.8	3.1	5.1	5.8	6.7	6.8	8.1	8.8	9.1	9.4	9.6	9.6	9.6
1975	1.5	1.9	3.0	4.0	6.0	6.1	6.8	8.1	9.9	10.1	12.0	12.4	12.4
1976	1.2	1.4	1.9	2.0	2.5	2.5	3.7	3.9	4.3	4.6	4.6	4.6	4.6
1977	1.5	1.6	2.0	2.9	3.2	3.4	3.7	4.0	4.2	4.8	4.7	4.7	4.7
1978	1.5	1.9	2.5	2.7	2.7	2.7	2.8	3.0	3.1	3.3	3.3	3.4	3.4
1979	2.1	2.7	3.3	3.8	4.7	4.7	6.5	6.7	6.9	7.0	7.9	8.3	8.3
1980	1.2	1.6	2.3	2.6	3.6	4.0	4.6	4.7	4.8	5.2	6.3	6.3	6.3
1981	2.0	3.8	4.3	4.3	4.3	4.3	4.7	4.7	5.3	7.6	7.6	7.6	7.6
1982	2.4	4.5	7.0	7.3	7.6	7.8	7.9	8.4	8.4	8.5	10.4	11.3	11.3
1983	2.2	2.6	2.6	2.7	5.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
1984	1.8	3.3	4.5	5.7	6.2	6.2	6.4	6.4	6.6	7.0	7.0	8.0	8.1
1985	1.2	1.8	2.3	2.6	3.2	3.4	6.2	7.2	7.8	10.2	11.3	11.6	16.1
1986	3.5	4.1	4.8	5.0	5.5	6.7	6.9	6.2	7.0	7.2	7.2	7.2	7.2
1987	1.4	2.1	2.5	2.9	2.9	2.9	3.3	3.8	4.3	6.6	6.6	7.1	7.1
1988	2.4	2.5	4.1	5.1	5.9	5.9	7.1	7.5	7.6	7.6	7.6	7.6	7.6
1989	2.0	2.5	3.4	4.1	4.9	5.1	5.9	6.4	6.8	6.7	6.8	6.8	6.8
1990	1.6	1.8	2.7	2.7	3.4	3.5	3.6	4.3	4.6	6.0	5.0	5.0	5.0
Mean Annual	1.95	2.74	3.55	4.02	4.66	4.78	6.61	8.62	6.29	6.76	7.02	7.29	7.44
Maximum	3.6	5.0	8.0	9.0	9.2	9.3	10.1	10.1	10.6	12.4	12.9	15.9	15.9

(all volumes in inches)

Avonpark

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1942	1.8	2.2	2.8	3.1	3.7	3.7	5.0	6.7	7.6	8.8	8.8	8.8	8.8
1943	1.7	2.0	2.7	4.0	5.8	6.8	6.9	6.9	6.4	6.4	6.4	6.4	6.4
1944	1.6	2.1	3.8	4.5	4.9	4.9	6.1	6.1	6.1	6.1	6.1	6.2	6.0
1945	1.3	1.4	1.6	1.7	1.7	2.0	2.2	2.5	3.7	4.5	4.5	5.5	5.7
1946	2.8	4.9	8.0	9.0	9.2	9.3	10.1	10.1	10.1	10.1	10.1	10.6	10.9
1947	1.2	2.2	3.1	3.3	4.0	4.0	4.7	4.8	4.8	4.8	4.8	4.8	4.8
1948	1.5	2.1	3.3	4.6	6.9	7.4	8.2	8.2	8.2	8.4	8.4	8.4	8.4
1949	2.4	3.5	5.3	5.3	6.3	6.3	6.3	6.3	6.4	6.5	6.6	6.1	6.1
1950	2.0	4.0	4.1	4.6	4.7	4.7	6.0	6.9	7.3	7.9	7.9	7.9	7.9
1951	3.2	4.8	7.3	8.7	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
1952	1.6	1.9	2.2	2.5	2.8	2.8	3.6	3.7	4.2	5.5	5.7	6.6	6.6
1953	1.8	2.6	3.0	3.8	6.4	7.2	8.9	9.6	9.7	9.7	9.7	9.7	9.7
1954	2.3	4.3	4.3	4.4	4.4	4.4	5.0	6.0	6.0	6.0	6.0	6.0	6.0
1955	1.8	2.6	2.6	2.6	2.6	2.6	4.2	4.3	5.5	5.5	5.5	5.5	5.5
1956	3.0	3.3	3.5	3.6	4.7	4.8	5.3	5.4	5.4	5.4	5.4	5.4	5.4
1957	1.8	2.9	3.5	3.5	3.6	3.6	3.6	4.5	6.3	6.7	7.0	7.5	7.5
1958	1.7	2.9	3.5	3.5	3.6	3.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
1959	2.0	3.1	4.9	6.0	6.6	6.9	7.3	7.6	10.6	12.4	12.9	16.9	16.9
1960	1.4	1.7	2.4	3.2	4.1	4.5	6.3	7.0	7.0	7.0	7.0	7.0	7.0
1961	1.5	2.2	2.9	3.0	3.3	3.3	3.7	4.0	4.3	4.9	5.5	5.5	5.5
1962	1.8	2.1	2.2	2.2	2.2	2.2	3.2	3.7	3.8	4.0	4.0	4.0	4.0
1963	2.2	2.4	4.0	4.3	4.7	4.8	5.4	6.2	6.5	6.5	6.5	6.5	6.5
1964	1.6	2.5	3.6	5.2	6.4	6.4	7.8	7.8	7.8	7.9	7.9	7.9	7.9
1965	3.3	6.0	6.0	6.3	6.7	6.7	7.6	7.8	6.3	6.9	6.9	6.9	6.9
1966	2.0	3.4	4.1	4.5	6.3	6.3	4.1	6.0	6.1	6.1	6.1	6.1	6.1
1967	2.3	2.9	3.1	3.1	3.2	3.3	4.1	4.1	6.0	6.1	6.1	6.1	6.1
1968	2.6	2.8	3.5	4.1	4.3	4.4	4.6	5.2	6.0	6.1	6.1	6.1	6.1
1969	1.8	2.3	2.6	3.1	4.2	4.9	7.1	7.3	7.4	7.7	7.8	7.8	7.8
1970	3.6	6.0	6.7	6.0	6.1	6.1	6.1	7.2	8.2	10.7	12.4	12.9	13.8
1971	1.2	1.4	1.9	2.1	2.5	3.1	3.2	3.2	3.2	3.2	3.2	3.2	3.2
1972	1.4	1.5	1.8	2.2	2.8	2.8	3.1	3.4	3.4	3.4	3.4	3.4	3.4
1973	2.3	2.8	3.4	3.4	3.4	3.4	3.4	3.8	4.3	4.5	4.5	4.5	4.5
1974	1.9	3.1	6.1	6.8	6.7	6.8	8.1	8.8	8.9	8.1	8.4	9.6	9.6
1975	1.5	1.9	3.0	4.0	6.0	6.1	6.8	9.1	9.9	10.1	12.6	12.4	12.4
1976	1.2	1.4	1.9	2.0	2.5	2.5	3.7	3.9	4.3	4.8	4.8	4.8	4.8
1977	1.5	1.8	2.0	2.9	3.2	3.4	3.7	4.0	4.2	4.6	4.7	4.7	4.7
1978	1.5	1.9	2.6	2.7	2.7	2.7	2.9	3.0	3.1	3.3	3.3	3.4	3.4
1979	2.1	2.7	3.3	3.8	4.7	4.7	6.5	6.7	6.9	7.0	7.9	8.3	8.3
1980	1.2	1.6	2.3	2.6	3.6	4.0	4.6	4.7	4.8	4.8	6.2	6.3	6.3
1981	2.0	3.8	4.3	4.3	4.3	4.3	4.7	4.7	5.3	7.6	7.6	7.6	7.6
1982	2.4	4.6	7.0	7.3	7.6	7.8	7.9	8.4	8.4	8.5	10.4	11.3	11.3
1983	2.2	2.6	2.6	2.7	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
1984	1.8	3.3	4.5	5.7	6.2	6.2	6.4	6.4	6.6	7.0	7.0	8.0	8.1
1985	1.2	1.8	2.3	2.6	3.2	3.4	6.2	7.2	7.8	10.2	11.3	11.6	16.1
1986	3.5	4.1	4.6	5.0	5.5	6.7	5.9	6.2	6.2	7.0	7.2	7.2	7.1
1987	1.4	2.1	2.5	2.9	2.9	2.9	3.3	3.6	4.3	5.8	5.8	7.1	7.1
1988	2.4	2.5	4.1	5.1	5.9	5.9	7.1	7.5	7.5	7.6	7.6	7.8	7.8
1989	2.0	2.5	3.4	4.1	4.9	5.1	5.9	6.4	6.6	6.7	6.8	6.8	6.8
1990	1.6	1.8	2.7	2.7	3.4	3.5	3.8	4.3	4.6	5.0	5.0	5.0	5.0
Mean Annual	1.95	2.65	3.42	3.69	4.62	4.70	5.39	5.88	6.15	6.71	7.16	7.39	7.80
Maximum	3.5	4.5	7.0	7.3	7.6	7.6	8.1	9.1	9.9	10.2	12.0	12.4	15.1

(all volumes in inches)

Bainbridge

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1977	0.7	1.3	1.6	1.6	1.6	1.6	1.8	1.8	1.8	1.8	1.8	1.8	1.8
1978	2.1	2.2	2.4	2.5	2.6	2.6	3.0	3.0	3.0	3.0	3.0	3.0	3.0
1979	1.5	1.5	2.0	2.5	3.2	3.4	4.2	4.7	4.8	5.8	5.8	5.8	5.8
1980	1.4	1.8	2.3	2.6	2.7	2.8	2.9	2.9	2.9	3.0	3.0	3.0	3.0
1981	2.1	2.1	2.3	2.9	3.0	3.0	3.1	3.3	3.5	4.0	4.0	4.0	4.0
1982	1.9	2.0	2.4	2.4	2.5	2.5	2.5	2.8	3.0	3.0	3.0	3.0	3.0
1983	1.9	2.1	2.1	2.2	3.3	3.6	4.4	4.4	4.4	4.4	4.4	4.4	4.4
1984	2.4	2.5	3.0	3.4	5.1	5.8	6.2	6.2	6.2	6.2	6.2	6.2	6.2
1985	2.8	4.1	5.5	6.1	7.1	7.1	7.1	7.8	7.8	7.8	7.8	7.8	7.8
1986	1.6	1.6	2.0	2.3	2.3	2.3	3.5	3.5	3.7	3.7	3.7	3.7	3.7
1987	1.8	1.9	2.3	2.7	2.8	2.8	2.8	2.8	3.5	4.1	4.1	4.1	4.1
1988	2.9	3.1	3.1	3.1	3.1	3.2	4.4	4.6	6.5	7.0	7.0	7.0	7.0
1989	2.2	3.1	3.4	3.5	3.5	4.8	5.1	5.2	6.1	6.1	6.1	6.1	6.1
Mean Annual	1.95	2.25	2.65	2.91	3.29	3.50	3.92	4.08	4.40	4.61	4.61	4.61	4.61
Maximum	2.9	4.1	5.5	6.1	7.1	7.1	7.1	7.8	7.8	7.8	7.8	7.8	7.8

(all volumes in inches)

Belle Glade

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1942	2.9	5.3	6.6	6.7	6.8	6.8	7.2	7.8	7.9	8.1	8.4	8.4	8.4
1943	1.8	2.0	2.3	2.3	2.3	2.3	3.3	4.4	4.4	4.4	4.4	4.4	4.4
1944	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.4	2.7	3.2	4.1	4.7	4.7
1945	2.1	3.0	3.5	3.7	3.7	3.7	3.6	4.6	4.7	7.1	8.0	8.1	8.1
1946	2.0	2.5	3.2	4.5	4.8	4.9	5.3	5.4	5.4	5.4	5.8	6.0	6.8
1947	2.4	2.7	2.8	3.3	4.3	4.9	5.5	5.7	5.8	6.3	6.5	6.5	6.5
1948	1.6	2.2	2.4	2.7	3.3	3.7	7.1	7.6	7.9	7.9	8.0	8.0	8.0
1949	2.4	3.5	4.9	5.1	5.5	5.6	6.6	6.6	6.7	6.7	6.7	6.7	10.4
1950	2.2	4.4	4.4	4.4	4.4	4.4	4.5	5.0	5.9	7.4	7.9	9.6	9.6
1951	1.9	2.0	3.0	3.6	4.3	4.7	5.4	5.6	6.3	6.9	7.0	7.1	7.1
1952	2.3	2.3	2.7	2.8	3.0	3.0	3.2	3.2	3.2	3.4	4.3	5.4	6.1
1953	1.4	2.0	2.4	2.4	2.5	2.6	3.0	3.2	3.9	4.3	5.1	5.9	6.8
1954	1.6	2.5	2.7	2.8	2.8	2.8	3.6	4.3	5.5	6.2	6.4	8.1	8.1
1955	1.9	1.9	2.2	2.2	2.3	2.3	2.9	3.7	4.0	4.1	4.1	4.5	4.5
1956	1.1	1.4	1.5	1.7	1.8	1.8	1.8	2.3	2.3	2.7	3.2	3.9	4.3
1957	2.3	3.8	6.5	7.4	8.3	8.4	8.6	8.7	8.7	8.7	8.7	8.7	8.7
1958	1.7	2.3	3.4	4.5	4.6	4.6	6.1	6.3	6.4	7.5	7.8	8.1	8.1
1959	1.7	2.3	3.4	4.5	4.6	4.6	6.1	6.3	6.4	7.5	7.8	8.1	8.1
1960	2.5	3.0	3.4	4.5	4.6	4.6	6.1	6.3	6.4	7.5	7.8	8.1	8.1
1961	2.6	2.4	2.4	2.4	2.4	2.4	2.7	3.9	4.4	4.5	5.3	6.2	6.2
1962	1.7	2.3	2.3	2.6	2.8	2.8	3.1	4.6	5.6	5.9	6.4	6.5	6.5
1964	1.5	2.0	2.4	2.4	2.4	2.4	2.7	3.5	6.5	6.5	6.5	6.5	6.5
1965	1.6	2.3	2.4	2.4	2.4	2.4	2.7	3.5	3.9	4.9	6.2	6.2	6.2
1966	1.4	2.0	2.6	2.8	3.4	3.7	4.7	6.3	6.3	6.4	6.4	6.4	6.4
1967	1.9	2.8	2.8	2.8	2.8	2.8	3.5	3.6	3.6	3.6	3.6	5.0	5.0
1968	2.7	3.3	3.3	3.3	3.3	3.3	3.3	3.5	4.7	4.8	5.1	7.5	8.2
1969	1.9	2.0	2.6	2.8	3.0	3.0	3.2	3.2	3.2	3.5	3.6	4.2	4.7
1970	2.6	3.3	3.3	3.4	4.6	4.6	5.8	6.7	6.7	6.7	6.7	6.7	6.7
1971	2.6	2.7	3.0	3.1	3.1	3.1	3.4	5.5	5.7	5.7	5.8	5.8	5.8
1972	2.7	2.8	2.9	2.9	2.9	2.9	3.7	4.2	4.2	4.2	4.6	5.5	5.6
1973	1.7	1.9	2.4	2.4	2.4	2.6	3.4	3.4	3.4	3.5	3.5	3.5	3.5
1974	1.5	1.8	1.8	1.8	1.8	2.0	2.5	2.7	3.5	4.0	5.4	6.8	7.8
1975	1.8	2.2	2.3	2.3	2.3	2.3	2.3	2.7	2.8	3.5	3.8	4.5	5.1
1976	1.4	1.8	1.8	1.8	1.8	1.8	2.1	2.2	2.7	2.9	2.9	3.5	3.5
1977	2.1	2.6	2.7	2.9	4.0	4.0	6.0	6.0	6.0	6.0	6.0	6.7	7.4
1978	1.9	2.8	2.9	3.1	3.2	3.2	3.3	5.0	5.0	5.2	5.2	5.2	5.2
1979	1.7	1.9	2.0	2.1	2.1	2.1	2.1	2.1	2.2	2.3	2.3	2.4	2.4
1980	1.8	2.0	2.1	2.5	2.6	2.6	2.6	3.0	3.0	3.1	3.3	3.4	3.4
1981	2.1	2.7	3.3	3.4	3.4	3.4	3.4	4.7	4.7	4.7	4.7	4.8	4.8
1982	2.5	2.9	3.0	3.1	3.1	3.1	3.3	3.9	4.5	5.6	5.6	5.6	5.6
1983	2.2	3.6	3.8	3.8	3.8	3.8	4.7	4.7	4.8	5.3	5.4	5.4	5.4
1984	1.8	2.8	3.6	4.3	4.3	4.3	4.3	4.3	4.3	4.9	4.9	4.9	4.9
1985	1.2	2.6	2.9	3.0	3.2	3.3	3.7	4.6	4.6	5.6	5.8	5.8	5.8
1986	2.2	2.9	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
1987	1.2	2.2	2.5	2.6	2.9	3.2	3.4	3.9	4.2	5.2	5.2	5.2	5.2
1988	1.3	2.0	2.1	2.1	2.1	2.1	3.0	3.0	3.0	3.0	3.1	3.7	3.7
1989	1.6	2.3	2.3	2.3	2.3	2.3	2.7	3.2	3.2	4.2	4.2	4.2	4.2
1990	2.2	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
Mean Annual	1.95	2.57	2.90	3.12	3.39	3.46	3.95	4.41	4.62	5.03	5.27	5.73	5.89
Maximum	2.9	5.3	6.6	7.4	8.3	8.4	8.6	8.7	8.7	8.7	8.7	9.6	10.4

(all volumes in inches)

Blackman

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1942	0.9	1.2	2.1	2.5	2.8	2.8	2.9	2.9	2.9	2.9	2.9	2.9	2.9
1943	1.2	2.2	2.6	3.4	3.6	3.6	4.2	4.2	4.2	4.2	4.2	4.2	4.2
1944	1.0	1.9	1.9	2.3	3.9	4.2	4.8	4.8	4.8	4.8	4.8	4.8	4.8
1945	1.4	1.9	2.1	2.1	2.1	2.1	2.1	3.3	3.5	3.6	4.3	4.3	4.3
1946	1.6	2.6	3.5	4.8	4.9	4.9	5.0	5.7	6.1	6.1	6.1	6.1	6.1
1947	1.4	2.1	3.3	3.8	3.9	3.9	5.3	7.2	7.8	7.8	7.8	7.8	7.8
1948	1.6	2.8	3.0	3.0	3.0	3.1	3.2	4.2	4.7	4.8	4.9	5.1	5.1
1949	1.9	2.0	2.1	2.1	2.1	2.1	2.1	2.9	2.9	3.8	4.5	5.5	5.5
1950	2.7	3.5	3.6	3.6	4.0	4.6	4.6	5.7	5.7	6.1	6.2	6.2	6.2
1951	2.0	2.8	3.2	3.3	3.9	4.1	5.6	5.6	5.8	5.8	5.8	5.8	5.8
1952	1.4	1.5	1.7	1.7	1.7	1.7	2.3	2.5	2.6	3.4	3.4	3.6	3.6
1953	2.0	2.6	3.7	4.7	5.7	5.9	6.7	6.8	6.8	10.0	10.1	10.1	10.1
1954	0.8	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
1955	1.5	2.6	4.1	5.0	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
1956	1.3	2.3	3.5	4.5	5.4	6.2	6.2	6.6	6.6	8.8	8.8	8.8	8.8
1957	2.2	3.6	4.7	5.1	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
1958	1.6	1.9	2.2	2.3	2.6	2.9	2.9	2.9	3.0	3.1	3.1	3.5	3.9
1959	1.6	1.9	2.2	2.3	2.8	2.7	3.6	3.6	3.6	4.4	4.5	4.9	5.3
1960	2.3	2.4	2.4	2.8	3.2	3.6	4.1	5.6	5.9	7.3	7.3	7.3	7.3
1961	2.7	3.5	4.6	5.2	5.8	5.9	6.3	7.2	7.7	7.7	7.7	8.5	8.5
1962	1.6	5.3	5.3	5.3	5.3	5.3	5.5	6.0	6.0	6.0	6.0	6.0	6.0
1963	1.1	1.2	1.6	1.8	2.9	2.9	2.9	3.2	3.2	3.9	3.9	3.9	3.9
1964	2.4	4.0	4.0	4.0	4.0	4.0	5.5	5.5	5.5	5.5	5.5	5.9	5.9
1965	1.1	2.5	2.5	2.5	2.6	2.6	2.6	3.0	3.0	4.0	4.0	4.0	4.0
1966	1.7	2.3	3.4	4.0	4.9	5.3	5.9	5.9	6.8	7.1	7.2	7.2	7.2
1970	1.6	2.6	4.7	6.0	9.0	10.1	15.5	16.7	16.8	16.8	17.6	18.8	18.8
1971	2.3	2.5	2.7	2.8	3.0	3.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
1972	1.2	2.2	3.3	3.5	3.5	3.6	3.9	3.9	3.9	3.9	3.9	3.9	3.9
1973	1.8	3.1	4.0	6.2	6.5	6.5	6.5	6.5	6.7	7.3	7.5	7.9	7.9
1974	1.9	2.2	2.7	3.5	4.2	4.2	5.7	7.5	8.2	8.4	8.7	8.7	8.7
1975	2.5	2.5	3.0	3.5	4.6	5.3	9.0	9.1	10.8	10.9	10.9	10.9	10.9
1976	2.5	3.8	4.9	5.0	5.3	5.3	5.4	5.4	5.4	5.4	5.4	5.4	5.4
1977	2.3	2.4	3.1	3.1	3.2	3.2	3.6	4.3	5.5	5.5	5.5	6.2	7.2
1978	3.0	3.5	5.6	6.8	7.7	7.7	10.0	10.7	10.7	10.7	10.7	10.7	10.7
1979	1.9	2.1	3.6	5.3	6.8	7.2	6.7	9.0	9.0	9.0	9.0	9.0	9.0
1980	1.8	3.7	4.4	4.8	5.4	5.5	5.7	6.5	6.5	7.3	7.3	7.3	7.3
1981	0.7	0.9	1.3	1.4	2.0	2.3	2.5	2.5	2.5	2.7	3.3	3.4	3.4
1982	1.6	1.8	2.0	2.1	2.1	2.1	2.4	2.6	3.0	3.5	3.9	4.9	4.9
1983	1.6	1.9	2.2	2.5	3.3	4.0	4.2	4.2	4.4	4.4	4.4	4.4	4.4
1984	2.2	2.2	2.2	2.3	2.5	2.5	3.8	5.0	5.2	5.2	5.4	7.6	7.6
1985	1.7	3.4	4.6	5.0	6.0	6.0	6.1	6.1	6.1	6.7	6.9	6.9	6.9
1986	1.6	1.8	2.0	2.1	2.2	2.3	3.8	3.8	3.7	3.7	3.7	3.7	3.7
1989	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
1990	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Mean Annual	1.70	2.42	3.02	3.43	3.92	4.06	4.60	5.21	5.40	5.66	5.79	5.96	6.05
Maximum	3.0	5.3	5.6	6.8	9.0	10.1	15.5	16.7	16.8	16.8	17.6	18.8	18.8

(all volumes in inches)

Boca Raton

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1942	6.9	8.3	9.5	9.7	10.1	10.1	10.2	12.1	12.1	12.1	12.1	12.1	12.1
1943	2.1	3.0	3.3	3.3	3.3	3.3	3.3	3.6	3.6	3.6	3.6	3.6	3.6
1944	1.1	1.9	2.4	2.6	2.8	2.8	3.2	3.3	3.6	4.1	4.3	5.4	5.4
1945	2.8	3.8	4.8	5.7	5.8	5.8	5.8	5.8	6.0	6.6	6.6	7.5	7.5
1946	2.7	2.9	3.4	3.9	3.9	3.9	4.0	4.0	4.0	4.0	4.0	4.0	4.0
1947	3.0	4.5	5.8	7.7	6.6	9.1	9.5	9.7	9.8	11.5	16.9	17.0	17.0
1948	3.8	6.9	6.9	7.1	8.2	8.2	10.0	12.0	12.0	12.0	12.0	12.0	12.0
1949	1.8	2.2	2.9	3.2	3.2	3.3	4.2	4.6	4.8	7.8	8.9	11.6	11.6
1950	1.6	2.4	2.7	2.8	2.9	3.4	3.5	3.7	4.0	6.0	6.3	8.7	8.7
1951	1.5	1.7	1.7	2.2	2.2	2.2	2.5	2.9	2.9	3.2	3.7	3.8	3.8
1952	2.7	3.6	3.9	3.9	3.9	3.9	3.9	3.9	4.3	4.6	5.4	6.7	6.7
1953	1.9	3.7	3.7	4.8	5.7	5.7	6.0	7.6	7.7	9.0	9.5	10.9	11.0
1954	2.1	2.3	2.7	2.8	3.0	3.3	5.1	5.5	7.1	8.4	8.8	9.4	9.4
1955	1.3	1.9	1.9	1.9	2.4	2.7	2.8	4.0	4.0	4.0	4.0	4.0	4.0
1956	1.3	2.2	2.2	2.2	2.2	2.2	2.7	3.5	3.5	4.1	4.1	4.1	4.1
1957	2.3	2.8	3.2	3.4	3.4	3.4	3.4	5.8	5.8	6.5	6.5	6.5	6.5
1958	1.4	1.6	2.1	2.3	2.5	2.5	2.5	2.8	3.8	4.2	4.6	5.3	5.3
1959	1.8	3.0	3.4	3.6	4.0	4.5	6.6	7.4	10.1	11.0	11.4	11.5	11.5
1960	1.9	2.8	2.8	4.6	4.9	4.9	4.9	5.8	5.8	6.1	7.0	8.5	8.7
1961	1.7	3.3	3.4	5.4	5.6	5.7	6.5	6.5	6.5	6.5	6.5	6.5	6.5
1962	2.0	2.9	3.0	3.2	3.6	3.6	3.8	4.9	5.5	5.5	5.8	6.9	7.4
1963	2.4	2.8	4.2	5.7	9.0	9.5	9.8	10.0	10.0	10.0	10.0	10.0	10.0
1964	1.7	2.6	3.0	3.6	4.5	4.7	5.0	5.0	5.0	5.0	5.0	5.0	5.0
1965	2.9	6.2	7.0	8.3	9.7	9.8	12.2	12.4	12.5	12.6	12.7	12.7	12.7
1966	2.3	3.4	3.5	3.8	4.1	4.3	5.9	7.1	7.8	8.2	8.6	9.6	10.9
1967	1.3	2.2	2.5	2.8	3.6	4.0	4.1	4.7	4.7	5.9	6.0	7.4	8.6
1968	1.8	2.4	3.0	3.1	3.1	3.3	3.5	4.4	4.6	4.6	4.6	4.6	4.6
1969	2.6	3.0	3.3	3.5	3.5	3.5	3.6	5.7	6.2	7.3	7.3	7.3	7.3
1970	1.8	2.9	3.2	3.3	3.3	3.3	3.9	5.5	5.5	5.5	5.5	5.5	5.5
1971	1.3	1.3	1.3	1.5	1.8	1.8	1.9	2.4	2.9	3.7	3.8	3.8	3.8
1972	2.8	3.4	3.8	4.3	4.3	4.4	4.8	6.0	5.0	5.0	5.0	5.0	5.0
1973	1.8	2.2	3.4	3.5	6.0	6.4	6.5	6.7	6.7	7.5	7.5	7.5	7.5
1974	2.1	1.8	1.6	1.7	2.3	2.8	3.3	3.6	3.6	7.0	7.0	7.0	7.0
1975	3.9	4.5	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
1976	2.1	3.1	3.7	3.7	3.7	3.7	3.7	3.7	3.9	4.1	5.4	6.0	6.0
1977	2.6	4.1	4.9	4.9	5.0	5.1	5.2	6.2	5.2	5.2	6.1	7.4	7.8
1978	1.5	1.8	2.4	3.0	3.5	4.4	6.5	7.8	8.7	9.2	9.2	9.2	9.2
1979	3.7	6.3	9.8	11.3	12.6	13.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
1980	2.3	3.2	3.6	3.9	3.9	3.9	5.2	5.6	5.7	6.0	6.3	6.7	6.7
1981	2.0	2.2	3.2	3.2	3.2	3.2	4.2	5.0	6.8	6.8	6.8	6.8	6.8
1982	2.2	4.0	4.4	5.1	5.4	5.4	6.0	6.4	6.5	6.7	6.7	6.7	6.7
1983	2.8	2.6	3.4	4.1	4.7	5.2	5.6	5.6	5.6	5.6	5.6	5.6	5.6
1984	1.8	2.6	3.5	3.7	3.7	4.1	4.7	5.4	5.4	5.4	5.4	5.4	5.4
1985	1.5	2.1	2.6	3.6	3.7	3.7	3.7	3.7	3.7	4.5	4.5	5.5	5.5
1986	2.0	3.1	3.5	3.5	3.6	3.6	3.6	3.9	4.1	4.5	5.0	5.0	5.0
1987	3.3	4.3	4.6	4.9	5.9	6.0	11.0	11.2	12.8	12.8	13.9	14.1	14.1
1988	2.3	2.7	2.7	2.9	2.9	2.9	2.9	4.9	5.0	5.0	5.0	5.0	5.0
1989	1.7	1.8	2.3	2.3	2.3	2.3	2.4	2.5	4.0	4.0	4.3	4.3	4.3
1990	2.8	3.8	3.8	3.8	3.8	3.8	4.5	4.6	6.6	6.6	6.6	6.6	6.6
Mean Annual	2.21	3.11	3.69	4.08	4.49	4.89	5.28	5.84	6.20	6.68	7.02	7.46	7.87
Maximum	5.9	8.3	9.8	11.3	12.6	13.0	14.0	14.0	14.0	14.0	16.9	17.0	17.0

(all volumes in inches)

Branford

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1944	1.2	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
1945	1.3	1.7	2.8	3.3	3.4	3.7	4.0	4.0	4.0	4.0	4.6	5.4	5.4
1946	1.2	2.3	2.3	2.7	3.3	3.5	3.5	4.6	4.6	5.2	5.2	5.2	5.2
1947	1.9	2.0	2.0	2.9	3.5	3.9	4.5	4.7	4.8	4.8	4.8	4.8	4.8
1948	1.1	1.2	1.5	1.8	1.9	4.2	4.4	5.2	5.2	5.3	5.6	5.6	5.6
1949	1.7	2.5	3.0	3.0	3.0	3.0	3.1	3.4	3.4	4.8	5.4	6.0	6.1
1950	1.4	1.7	2.1	2.2	2.7	3.0	4.2	4.7	5.1	5.8	6.1	6.1	6.5
1951	1.6	2.7	3.2	4.4	4.5	4.6	5.7	6.2	6.2	6.2	6.2	6.2	6.2
1952	1.3	1.9	2.5	2.5	2.5	2.5	2.8	3.1	3.4	4.3	4.3	5.4	5.8
1953	2.4	2.7	3.8	4.2	4.9	5.0	5.1	5.1	5.1	5.1	5.1	6.2	6.2
1954	1.2	1.7	1.8	1.8	1.8	1.9	3.3	3.3	3.4	3.6	4.6	4.6	4.6
1955	1.5	2.1	2.2	2.2	2.3	2.3	2.5	2.6	2.6	2.6	2.6	2.6	2.6
1956	1.9	4.0	4.0	4.0	4.0	4.0	4.0	4.3	4.5	5.1	5.1	5.1	5.1
1957	1.8	1.8	2.4	2.9	4.0	4.4	8.0	9.4	9.9	10.3	10.7	11.6	11.6
1958	0.8	1.3	1.5	1.5	1.7	2.0	2.3	2.3	2.3	2.3	2.3	2.3	2.3
1989	2.2	2.4	2.5	2.9	3.0	3.0	3.1	3.4	3.5	4.0	4.1	4.5	4.5
1990	2.2	2.2	2.5	2.5	2.5	2.5	3.5	4.6	4.6	4.8	4.8	4.8	4.8
Mean Annual	1.57	2.19	2.54	2.82	3.06	3.33	3.95	4.35	4.45	4.78	4.98	5.26	5.32
Maximum	2.4	4.0	4.0	4.4	4.9	5.0	8.0	9.4	9.9	10.3	10.7	11.6	11.6

(all volumes in inches)

Bristol

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1942	1.6	2.3	2.8	3.4	3.4	3.4	3.5	4.5	4.7	4.8	4.8	4.8	4.8
1943	1.6	2.3	3.1	4.2	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
1944	1.9	3.6	3.6	3.6	3.7	3.8	4.2	4.2	4.4	5.7	5.8	5.8	5.8
1945	1.9	2.0	2.0	2.0	2.2	2.4	2.8	2.8	3.0	3.8	4.1	6.0	6.3
1946	2.3	2.7	2.9	2.9	3.0	3.1	4.8	4.9	4.9	5.3	6.1	8.8	9.8
1947	2.3	2.5	3.2	4.4	4.5	4.5	4.5	4.8	5.5	6.2	7.6	9.3	9.3
1948	2.3	2.4	2.8	3.0	4.2	4.7	6.1	8.1	8.2	8.2	8.2	8.2	8.2
1949	2.2	3.5	3.6	3.6	3.6	3.6	4.3	4.3	4.9	5.1	5.4	5.6	5.6
1950	1.6	1.7	2.1	2.4	4.2	4.4	7.1	7.5	8.6	9.0	9.3	9.3	9.3
1961	1.7	2.5	3.7	4.0	4.3	4.3	5.4	5.4	5.4	5.7	5.7	5.7	5.7
1962	1.6	1.6	2.1	2.1	2.1	2.1	2.3	2.4	2.4	2.4	2.4	2.7	2.7
1963	2.1	2.9	3.0	3.0	3.0	3.1	3.8	4.3	4.3	4.3	4.3	4.3	4.3
1964	1.2	1.4	1.6	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
1965	1.6	2.4	3.1	3.5	5.3	5.7	6.1	6.2	6.2	6.2	6.2	6.2	6.2
1966	2.0	2.8	3.9	4.1	4.4	4.5	4.9	4.9	5.4	5.6	5.7	5.8	5.8
1967	1.3	2.1	3.3	4.2	5.4	5.5	5.7	5.7	5.8	5.9	6.1	6.7	6.7
1968	1.3	2.0	2.0	2.3	2.8	3.0	3.5	3.5	3.5	3.6	3.6	4.3	4.3
1969	1.2	1.9	2.1	2.1	2.3	2.3	2.9	3.6	4.0	4.9	5.5	6.6	6.6
1990	1.5	2.1	2.9	3.4	4.6	4.6	4.7	5.5	5.5	6.3	6.3	6.3	6.3
1981	1.6	2.1	2.4	2.4	3.2	3.3	3.5	3.5	3.5	3.5	3.5	3.6	3.6
1982	1.7	1.9	2.5	3.8	5.1	5.2	5.3	5.3	5.3	5.3	5.3	5.3	5.3
1983	1.6	2.7	2.7	2.7	2.7	2.7	2.7	3.4	3.5	3.5	3.7	3.9	3.9
1984	1.9	2.7	2.8	2.8	4.0	4.8	6.3	6.5	7.4	7.4	7.4	7.4	7.4
1985	1.8	2.3	3.0	3.3	3.5	3.5	4.8	5.2	6.0	6.2	6.2	6.2	6.2
1986	1.7	1.7	1.9	2.4	2.8	2.8	4.0	4.1	4.1	4.1	4.3	5.2	5.2
1987	2.6	3.6	4.5	4.9	5.1	5.1	5.1	5.1	5.1	5.5	5.5	5.6	5.6
1988	1.3	2.2	2.2	2.3	2.3	2.3	2.3	2.9	3.3	3.3	3.3	4.8	4.8
1989	1.9	2.8	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.8	4.3
1970	1.6	2.7	2.8	3.0	3.1	3.1	3.5	3.5	4.4	4.8	4.8	5.3	5.3
1971	1.4	1.7	2.2	2.7	2.9	2.9	2.9	2.9	3.1	3.1	3.3	3.4	4.0
1972	2.9	4.0	5.6	6.0	6.9	7.0	7.1	7.1	7.1	7.1	7.1	7.1	7.1
1973	1.3	1.7	2.3	2.3	3.3	3.5	4.8	4.6	5.8	6.8	7.5	7.5	7.5
1974	1.8	1.7	1.7	1.7	1.8	2.0	2.6	3.1	3.1	3.4	3.9	5.8	6.6
1975	1.6	2.0	2.7	3.6	4.1	4.2	5.5	6.9	7.8	8.4	8.7	9.0	9.0
1976	1.6	2.3	3.5	4.2	4.3	4.3	4.5	4.5	4.6	5.1	5.1	5.1	5.1
1977	1.1	2.0	2.0	2.0	2.0	2.6	3.0	3.8	3.8	4.2	5.0	6.0	5.0
1978	1.1	1.8	2.1	2.6	3.1	3.1	3.1	3.7	3.8	3.8	3.8	3.8	3.8
1979	1.8	2.9	4.3	4.5	4.8	4.9	6.3	7.4	7.8	8.3	8.4	8.4	8.4
1980	1.7	2.4	2.9	3.0	3.0	3.0	3.8	4.3	4.3	4.9	5.9	7.1	7.1
1982	1.2	1.4	1.9	2.3	2.5	2.5	2.7	2.7	2.7	2.7	3.0	3.0	3.0
1983	1.5	1.9	2.1	2.2	2.4	2.4	2.5	3.3	3.6	3.7	3.8	3.8	3.8
1984	1.2	3.1	3.3	4.1	5.8	6.4	6.8	6.9	6.9	6.9	6.9	6.9	6.9
1985	1.8	2.0	2.0	2.1	2.1	2.3	3.2	3.4	3.4	3.4	3.4	3.4	3.4
1986	1.7	1.7	1.7	1.7	1.7	1.8	1.9	1.9	1.9	2.0	2.9	3.2	3.2
1987	1.7	2.7	3.2	3.7	3.9	3.9	4.1	4.1	4.1	4.7	5.1	5.1	5.1
1988	1.1	1.5	2.1	2.5	3.2	3.6	4.5	4.8	4.8	4.8	4.8	4.8	4.8
1989	1.9	2.8	3.1	3.1	3.1	3.1	3.1	3.3	4.0	4.4	6.4	6.4	6.4
1990	2.8	3.0	3.0	3.0	3.0	3.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Mean Annual	1.71	2.34	2.61	3.12	3.54	3.66	4.17	4.47	4.89	4.97	5.22	5.56	5.58
Maximum	2.9	4.0	5.6	6.0	6.9	7.0	7.1	8.1	8.6	9.0	9.3	9.8	9.8

(all volumes in inches)

Brooksville

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1945	2.1	3.5	3.7	4.8	5.9	6.6	7.4	7.7	7.8	8.1	9.5	12.4	13.1
1946	1.1	1.7	2.2	2.2	2.7	3.2	3.4	4.8	4.8	4.8	4.8	4.8	4.8
1947	2.2	3.2	3.8	4.5	5.8	5.9	6.8	7.1	7.2	7.2	7.2	7.2	7.2
1948	2.7	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
1949	2.5	2.5	2.8	3.7	4.7	5.0	5.7	6.0	6.3	6.3	6.3	6.3	6.3
1950	1.5	3.2	4.0	5.5	7.7	8.3	12.9	15.0	16.6	17.5	16.2	18.9	20.2
1951	1.8	2.9	4.2	4.7	5.6	6.1	7.5	7.5	7.5	7.5	7.5	7.5	7.5
1952	1.5	2.8	4.4	4.8	4.9	5.0	5.2	5.5	5.9	6.0	6.2	6.2	6.2
1953	1.3	1.7	3.1	3.4	3.7	3.8	4.1	4.1	4.1	4.1	4.1	4.1	4.1
1954	1.7	2.2	2.4	2.4	2.4	2.4	2.8	4.5	4.5	4.5	4.5	4.5	4.5
1955	2.0	3.1	3.2	3.2	3.3	3.3	4.1	4.3	4.6	5.5	6.2	6.3	6.3
1956	1.7	3.0	4.0	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
1957	3.2	3.9	3.9	3.9	3.9	3.9	4.7	5.2	5.4	5.8	6.6	10.2	11.3
1958	1.3	1.8	2.1	2.5	3.7	4.3	4.9	4.9	4.9	4.9	4.9	4.9	4.9
1959	1.5	1.9	2.3	2.3	2.8	2.8	3.4	4.1	4.1	4.5	5.4	7.2	7.2
1960	1.8	2.1	3.1	4.0	5.5	5.9	9.4	9.6	10.8	12.0	12.0	12.0	12.0
1961	1.1	1.5	1.9	2.0	2.3	2.3	2.4	2.5	2.6	2.8	3.3	3.6	3.6
1962	1.4	2.0	2.1	2.1	2.1	2.2	3.4	3.4	3.6	4.5	4.8	5.1	5.1
1963	1.4	2.0	2.3	2.4	2.4	2.4	2.5	2.6	2.7	3.1	3.2	3.7	4.0
1964	1.8	2.4	3.8	3.7	4.0	4.1	4.7	5.8	6.4	8.1	8.8	8.8	8.8
1965	1.8	2.4	2.5	2.9	3.1	3.2	4.0	4.0	4.0	4.0	4.0	4.0	4.0
1966	1.9	2.2	2.4	2.4	2.4	2.4	2.4	4.3	4.3	4.8	5.2	6.5	6.7
1967	3.4	4.1	4.1	4.1	4.1	4.1	4.1	5.2	5.2	6.1	6.1	6.1	6.1
1968	2.2	2.8	3.3	3.8	4.7	4.8	5.0	5.2	5.3	6.2	6.2	6.2	6.2
1969	1.9	2.0	2.0	2.0	2.1	2.3	3.8	4.1	4.1	4.1	4.3	5.0	5.8
1970	1.8	1.7	2.1	2.3	2.4	2.6	4.8	5.1	5.1	5.1	5.1	6.8	7.2
1971	1.8	2.1	2.5	2.5	3.2	3.4	5.0	5.0	5.0	5.0	5.5	5.7	5.7
1972	2.4	2.4	3.3	3.3	3.7	4.1	4.9	5.1	5.1	5.1	5.1	5.1	5.1
1973	1.9	2.2	2.3	2.3	2.3	2.3	3.2	3.6	3.6	3.9	4.4	5.3	5.3
1974	2.2	3.4	5.1	6.1	9.7	11.2	12.9	12.9	13.9	16.9	17.5	17.5	17.5
1975	2.2	2.5	2.6	3.1	3.1	3.1	4.3	4.3	4.3	4.3	4.3	4.3	4.3
1976	2.1	2.7	4.0	4.6	6.4	6.5	7.0	7.1	7.2	7.6	7.6	7.6	7.6
1977	0.8	1.1	1.1	1.2	1.8	1.9	3.5	4.3	4.6	4.8	5.0	5.0	5.0
1978	1.8	2.0	2.0	2.0	2.0	2.1	2.1	3.1	3.5	4.1	4.8	6.4	6.4
1979	2.0	3.2	3.4	3.5	4.3	4.9	5.8	5.9	6.0	6.2	6.2	6.2	6.2
1980	1.8	1.8	2.1	2.4	2.4	2.4	2.9	2.9	2.9	2.9	2.9	2.9	2.9
1981	1.8	2.7	3.0	3.0	3.0	3.4	3.4	3.7	4.2	4.2	4.2	4.2	4.2
1982	2.3	3.2	3.6	3.8	4.5	5.0	8.0	7.2	6.3	6.3	6.3	6.3	6.3
1983	1.6	2.0	2.5	2.5	2.8	2.8	3.5	3.7	3.7	4.6	6.0	6.0	6.1
1984	2.6	3.6	5.0	5.6	5.8	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
1985	1.8	3.3	3.4	3.4	3.4	3.4	4.8	6.3	6.7	6.9	7.0	7.1	7.1
1986	1.2	1.4	2.2	2.5	2.5	2.5	3.0	3.1	3.3	5.0	5.0	5.0	5.0
1987	2.3	2.5	2.5	3.1	3.8	3.6	4.3	4.4	4.7	7.5	11.0	11.8	11.8
1988	1.9	2.1	3.0	4.0	5.1	5.2	6.2	6.5	6.7	7.5	11.0	11.8	11.8
1989	2.4	2.7	2.9	3.0	3.0	3.0	3.0	3.7	3.9	3.9	5.2	5.7	5.7
1990	2.1	2.5	2.6	2.7	2.8	2.8	3.3	3.7	3.7	3.9	3.9	3.9	3.9
Mean Annual	1.86	2.49	2.99	3.28	3.79	4.00	4.83	5.29	5.61	6.06	6.44	6.90	7.00
Maximum	3.4	4.1	5.1	6.1	9.7	11.2	12.9	15.0	16.6	17.5	18.2	18.9	20.2

(all volumes in inches)

Canal Point

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1942	1.9	2.4	4.2	4.8	5.0	5.1	6.1	6.6	8.8	8.3	8.7	9.4	9.5
1943	1.4	2.2	2.7	2.8	2.8	2.8	2.8	2.8	3.0	3.1	4.0	4.9	4.9
1944	1.7	1.9	1.9	1.9	2.1	2.2	2.7	3.0	3.5	4.3	4.9	6.8	6.8
1945	2.3	2.4	2.5	2.5	3.7	4.0	4.6	4.8	4.8	6.1	6.8	6.8	6.8
1946	1.4	2.2	2.9	3.9	4.7	4.7	4.7	4.7	4.7	4.7	4.8	7.4	7.4
1947	2.7	4.8	5.0	5.0	5.0	5.0	7.1	7.8	7.9	7.9	10.5	10.6	10.6
1948	2.1	3.2	3.3	3.3	3.3	3.3	5.4	6.1	7.0	7.2	7.2	7.2	7.2
1949	2.4	2.6	3.8	4.2	4.5	4.6	4.8	4.9	4.9	5.5	5.5	5.5	5.5
1950	1.4	1.6	1.8	2.2	2.6	3.1	4.3	4.5	5.3	5.5	5.8	7.4	7.4
1951	2.3	2.6	3.0	4.1	5.7	5.9	6.6	7.1	7.3	8.8	8.8	8.8	8.8
1952	1.9	2.6	3.7	3.7	3.8	3.8	3.8	3.8	4.0	4.0	4.0	4.0	4.0
1953	2.3	2.3	2.5	2.8	3.0	3.0	3.8	4.3	5.1	5.5	6.0	7.2	9.7
1954	2.4	2.6	2.7	3.0	4.6	5.2	5.4	6.8	6.9	7.0	7.0	7.0	7.0
1955	2.1	3.5	3.9	3.9	4.2	4.5	5.0	6.8	6.9	7.0	7.0	7.0	7.0
1956	2.1	2.3	2.3	2.4	2.4	2.4	2.4	3.7	3.7	3.7	3.9	4.2	4.2
1957	2.3	3.7	3.8	3.8	3.8	4.0	4.1	4.3	4.5	4.5	4.9	4.9	4.9
1958	2.1	2.4	2.5	2.5	2.7	2.7	2.7	3.0	3.0	3.1	3.1	3.1	3.1
1959	1.8	2.2	3.0	3.8	4.2	4.4	5.2	5.4	5.4	6.1	6.3	6.3	6.3
1960	1.9	2.3	2.4	2.8	2.7	2.8	3.7	4.3	4.5	4.5	4.5	4.5	4.5
1961	1.9	2.4	2.8	3.2	3.3	3.3	4.4	5.5	5.8	5.8	5.8	5.8	5.8
1962	1.8	2.2	3.3	3.3	3.3	3.3	3.4	3.5	4.4	4.5	4.5	4.5	4.5
1963	1.6	1.6	1.9	1.9	2.3	2.8	4.4	4.5	4.5	4.5	4.5	4.5	4.5
1964	2.5	2.9	3.0	3.0	3.0	3.0	3.5	5.0	5.1	5.1	5.1	5.4	5.4
1965	1.6	2.1	3.2	3.4	3.4	3.4	3.6	3.8	4.3	4.4	4.7	5.9	5.9
1966	1.4	2.2	2.8	2.8	2.8	2.8	4.3	5.4	5.7	5.7	5.7	5.7	5.7
1967	1.4	2.2	2.3	2.3	2.3	2.3	2.4	2.4	3.2	3.2	3.2	3.7	3.7
1968	1.8	2.2	2.7	2.7	3.1	3.5	3.9	5.4	5.7	5.8	5.9	6.3	6.5
1969	2.8	2.8	2.8	2.8	2.8	2.8	2.9	3.8	3.9	3.9	3.9	4.3	4.3
1970	2.1	2.7	3.6	5.0	5.9	5.9	7.3	8.0	8.0	8.0	8.0	8.0	8.0
1971	1.2	1.6	2.2	2.7	2.8	2.8	2.9	3.0	3.1	3.4	4.3	4.9	4.9
1972	1.4	1.6	1.7	1.7	1.7	1.7	1.7	3.0	3.0	3.1	3.1	3.1	3.1
1973	1.7	1.7	2.1	2.2	2.2	2.2	2.5	2.5	2.5	2.5	2.7	2.7	2.7
1974	1.9	2.0	2.0	2.0	2.0	2.0	2.5	3.6	3.8	4.2	4.2	4.2	4.2
1975	3.0	4.2	4.5	4.5	4.5	4.5	4.5	4.8	4.8	5.1	5.2	6.8	6.8
1976	1.7	1.6	2.4	2.8	3.0	3.0	3.9	3.9	4.3	4.3	4.8	4.8	4.8
1977	2.7	3.5	3.5	3.5	3.5	3.5	6.3	6.5	7.3	8.0	8.0	8.0	8.0
1978	3.4	4.9	5.0	5.0	5.0	5.0	5.5	5.5	5.8	5.8	6.2	10.0	10.0
1979	1.9	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.9	3.4	3.4	3.4	3.4
1980	2.1	2.6	3.4	3.8	3.8	3.8	3.7	5.8	5.8	8.1	8.2	8.4	8.4
1981	1.4	1.4	1.5	1.5	2.3	2.3	2.4	2.5	2.9	3.4	4.0	4.5	5.9
1982	1.0	1.3	1.9	2.5	2.7	2.8	2.9	2.9	3.3	3.9	4.1	5.1	5.8
1983	0.8	1.5	1.5	1.5	1.8	2.3	2.8	2.9	2.9	3.8	3.8	3.8	3.8
1984	0.8	1.3	1.4	2.1	2.4	2.8	3.2	3.3	4.3	4.8	4.8	5.0	5.5
1985	0.8	1.4	2.4	3.2	3.2	3.2	4.5	5.6	6.0	6.3	6.3	6.3	6.3
1987	2.2	2.2	2.2	2.2	2.2	2.2	2.5	2.5	3.1	4.9	4.9	4.9	4.9
1990	0.9	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Mean Annual	1.87	2.42	2.81	3.03	3.29	3.41	3.86	4.47	4.74	5.11	5.34	5.73	5.85
Maximum	3.4	4.9	5.0	5.0	5.9	5.9	7.3	8.0	8.0	8.8	10.5	10.6	10.8

(fall volumes in inches)

Clewiston

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1948	2.6	3.1	4.5	4.8	4.8	6.2	8.3	9.9	10.4	10.4	10.4	10.4	10.4
1949	1.9	2.4	2.7	2.7	2.7	2.7	4.0	4.2	4.6	4.9	4.9	6.4	6.4
1950	2.2	2.8	4.0	4.0	4.0	4.0	5.0	6.2	6.3	6.3	6.4	6.4	6.4
1951	1.6	2.7	4.0	4.8	5.6	6.1	7.5	8.0	8.4	9.1	9.3	9.3	9.3
1952	1.7	2.3	2.8	2.9	2.9	2.9	2.9	3.0	3.0	3.1	4.7	4.7	4.7
1953	1.7	1.8	1.8	1.9	2.0	2.0	2.7	3.7	4.4	4.6	4.6	4.6	4.6
1954	1.8	2.0	2.9	3.3	3.4	3.8	4.7	5.8	5.9	5.9	6.0	6.0	6.0
1955	2.0	2.5	2.5	2.5	2.5	2.5	3.0	4.3	4.4	4.4	4.4	4.4	4.4
1956	1.0	1.3	1.5	1.5	1.5	1.5	1.8	2.0	2.3	2.3	2.3	2.3	2.3
1957	1.8	3.1	3.1	3.6	4.4	4.9	5.4	5.4	5.8	6.7	6.7	6.8	6.8
1958	1.8	3.4	3.4	3.4	3.4	3.5	3.5	3.5	3.5	3.7	4.2	4.7	4.7
1959	1.8	3.2	3.6	3.6	3.9	3.9	4.3	4.8	4.8	5.2	5.6	5.8	5.8
1960	1.6	2.0	3.1	3.6	3.6	3.6	4.6	5.1	5.5	7.2	7.4	7.6	7.6
1961	1.9	2.4	2.8	2.8	2.8	2.8	5.1	5.1	6.9	7.5	7.8	8.0	8.0
1962	1.6	1.6	1.7	1.9	2.0	2.1	3.4	4.1	4.9	5.4	5.9	6.8	6.8
1963	1.5	1.5	1.6	1.7	2.0	2.0	2.7	2.8	2.8	2.8	2.8	2.8	2.8
1964	2.0	3.3	4.2	4.3	4.3	4.3	4.3	4.8	5.0	5.0	5.0	5.4	5.4
1965	2.3	3.3	3.4	3.4	3.4	3.4	3.4	3.7	3.7	4.3	4.6	5.7	6.0
1966	2.3	2.8	2.8	2.8	2.8	2.8	3.0	3.0	3.7	3.7	4.3	4.6	4.8
1967	1.7	2.4	2.4	2.4	2.4	2.4	2.5	3.1	3.6	3.8	4.3	4.6	4.8
1968	1.7	1.9	2.2	2.6	3.0	3.4	3.7	4.4	4.6	4.8	4.8	6.5	7.6
1969	1.6	1.6	2.0	2.0	2.1	2.1	3.7	3.9	3.9	3.9	3.9	3.9	3.9
1970	1.5	1.6	2.9	4.4	5.3	5.3	6.5	7.2	7.2	7.2	7.2	7.2	7.2
1971	1.4	2.3	2.4	2.5	2.5	2.5	2.6	4.4	4.5	4.9	5.0	5.0	5.0
1972	2.8	2.9	2.9	2.9	3.0	3.8	4.5	4.9	5.0	5.3	5.5	5.5	5.5
1973	1.5	1.6	2.2	2.5	2.5	2.6	2.6	2.7	2.7	2.7	2.7	2.7	2.7
1974	1.9	2.6	4.3	4.8	5.3	5.5	6.8	8.3	9.1	9.6	9.6	9.6	9.6
1975	2.4	2.6	2.6	2.9	2.9	2.9	3.9	3.9	4.0	5.2	5.8	6.9	7.1
1976	2.5	3.2	3.3	3.3	3.3	3.3	3.4	3.8	3.9	4.0	4.1	4.1	4.1
1977	2.6	4.0	5.9	6.2	6.2	6.2	7.1	8.1	8.1	8.1	8.1	8.1	8.1
1978	1.6	2.5	2.8	2.8	2.9	2.9	3.2	5.3	5.4	5.7	5.7	5.7	5.7
1979	1.4	1.7	1.8	1.8	1.8	1.8	2.2	3.0	3.2	3.3	4.6	4.7	4.7
1980	1.6	2.2	2.6	2.6	2.6	2.6	2.8	2.8	2.8	2.8	2.8	2.8	2.8
1981	1.4	1.8	2.1	2.1	2.1	2.1	2.3	3.3	3.3	3.5	3.6	4.3	4.3
1982	4.2	7.4	8.4	8.7	9.5	9.9	9.9	11.1	11.1	12.1	12.5	13.4	14.6
1983	1.8	3.2	3.6	4.2	4.3	4.3	5.0	6.1	6.1	6.1	6.1	6.1	6.1
1984	2.0	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
1985	2.3	2.7	2.7	2.7	2.7	2.7	4.0	4.0	4.0	4.4	4.4	4.4	4.4
1986	2.0	2.7	3.0	3.3	3.4	3.4	3.4	3.4	4.2	4.2	4.2	4.2	4.2
1987	1.8	3.1	3.2	3.2	3.2	3.2	3.3	3.9	4.0	4.0	4.3	4.6	4.6
1988	3.4	3.9	4.2	4.3	4.4	4.4	4.4	4.7	4.7	4.7	4.7	5.6	5.6
1989	1.8	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.1	5.2	5.4	5.4
1990	2.1	2.3	2.4	2.4	2.4	2.4	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Mean Annual	1.96	2.81	3.23	3.42	3.60	3.71	4.31	4.90	5.12	5.41	5.61	5.81	5.88
Maximum	4.2	7.8	8.4	8.7	9.5	9.9	9.9	11.1	11.1	12.1	12.5	13.4	14.6

(all volumes in inches)

Coolidge

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1946	2.0	2.0	2.0	2.2	3.2	3.2	3.2	3.5	3.5	5.0	5.7	7.1	8.3
1949	1.6	2.1	2.4	2.4	2.5	2.5	2.6	2.8	2.8	2.8	2.8	2.8	2.8
1950	1.3	1.4	2.1	2.6	2.8	3.0	3.0	3.0	3.0	3.2	3.3	3.3	3.3
1951	0.9	1.4	1.7	1.9	2.4	2.5	3.2	3.4	3.4	3.7	3.7	3.7	3.7
1952	2.9	3.0	4.2	4.7	5.1	5.1	5.2	5.8	5.8	6.0	6.0	6.0	6.0
1953	1.7	2.5	3.0	3.3	3.5	3.8	4.0	4.0	4.0	4.0	4.0	4.6	4.6
1954	1.2	1.2	1.2	1.2	1.4	1.4	1.8	1.9	1.9	1.9	1.9	1.9	1.9
1955	1.5	1.6	1.7	2.1	2.4	2.4	2.6	2.8	2.9	3.5	3.5	3.5	3.5
1956	2.3	3.2	4.8	5.2	5.7	6.0	6.9	6.9	6.9	6.9	6.9	6.9	6.9
1957	1.2	1.3	1.6	2.0	2.8	3.1	3.3	3.5	3.8	4.8	5.1	5.3	5.3
1958	1.9	2.0	2.1	2.3	2.9	3.3	4.0	4.0	4.0	4.0	4.0	4.0	4.0
1959	1.5	1.9	2.4	2.9	3.5	4.2	5.2	5.2	5.2	5.2	5.2	5.3	5.3
1960	2.8	3.0	3.1	3.7	3.8	3.8	3.9	3.9	3.9	5.6	5.6	5.6	5.6
1961	1.6	2.1	2.5	2.9	3.2	3.3	4.1	4.1	4.1	4.1	4.1	4.1	4.1
1962	1.7	2.0	2.3	2.3	3.5	3.5	4.8	4.8	4.8	4.8	4.8	4.8	4.8
1963	2.1	2.1	2.1	2.4	2.9	2.9	3.2	3.4	3.7	3.7	3.7	3.7	3.7
1964	1.8	2.7	3.4	4.9	5.7	6.1	7.6	7.7	7.7	7.7	7.7	7.7	7.7
1965	1.4	1.9	2.5	3.5	3.7	3.8	4.4	4.8	4.8	5.9	5.9	5.9	5.9
1966	1.8	1.8	1.9	2.0	2.0	2.1	3.7	3.7	3.7	3.8	4.5	4.7	4.7
1967	1.5	2.3	2.7	3.0	3.1	3.2	3.8	3.8	3.8	5.3	5.3	5.6	5.6
1968	1.7	1.9	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.8	2.8	2.8	2.8
1969	1.0	1.8	2.0	2.0	2.2	2.2	2.8	3.0	3.5	3.9	3.9	3.9	3.9
1970	1.7	1.8	2.0	2.4	2.8	3.1	3.5	3.7	3.8	3.9	4.0	4.0	4.0
1972	2.1	2.3	3.7	3.9	4.1	4.1	4.9	5.1	5.8	6.4	6.4	6.4	6.4
1973	1.8	2.7	3.1	3.4	4.6	4.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0
1974	1.5	1.9	2.0	2.0	2.3	2.5	3.5	3.8	3.8	3.8	4.0	4.0	4.0
1975	1.8	1.9	2.1	2.3	2.9	3.3	4.6	5.5	5.6	5.7	5.7	5.7	5.7
1976	1.7	2.3	3.2	4.0	4.0	4.0	4.4	4.8	4.8	6.5	6.6	6.6	6.6
1977	2.1	2.9	3.2	3.3	3.4	3.4	3.4	3.9	3.9	3.9	3.9	3.9	3.9
1978	1.3	1.9	2.0	2.1	2.7	2.7	2.7	2.7	2.7	3.5	4.0	4.0	4.0
1979	1.8	2.2	2.4	2.4	3.7	3.8	3.8	4.0	4.0	4.2	4.3	4.3	4.3
1980	1.5	1.5	1.6	1.7	2.3	2.4	2.6	2.6	2.6	2.6	2.6	2.6	2.6
1981	1.0	1.3	1.9	2.3	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
1982	1.2	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
1983	1.8	2.1	2.4	2.8	3.2	3.2	3.3	3.8	3.8	3.8	3.8	3.8	3.8
1984	1.2	1.8	2.0	2.0	2.5	2.5	2.7	2.8	3.5	4.0	4.0	4.0	4.0
1985	1.2	4.2	4.2	4.2	4.5	5.0	5.0	5.2	5.7	6.3	6.9	7.1	7.1
1986	1.4	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
1987	1.4	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
1988	1.5	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
1989	1.3	1.3	1.8	1.8	1.9	2.2	2.8	2.8	3.2	3.2	3.3	3.3	3.4
1990	1.3	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.8	3.0	3.8	3.8
Mean Annual	1.62	2.44	2.78	3.03	3.41	3.53	3.96	4.11	4.20	4.53	4.62	4.74	4.77
Maximum	2.9	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7

(all volumes in inches)

Cross City

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	192 hr	240 hr
1942	1.2	2.0	2.3	2.4	2.6	2.7	2.9	3.8	3.9	5.0	5.2	5.4	6.6
1943	1.7	2.3	2.8	2.9	3.0	3.4	3.5	3.5	4.5	4.8	4.8	4.8	4.8
1944	2.1	3.3	4.9	5.0	5.0	5.1	5.1	5.1	5.1	5.1	5.1	5.7	6.8
1945	1.6	2.5	2.5	2.6	2.6	2.6	2.6	3.0	3.1	3.6	4.0	5.6	7.0
1946	2.1	2.7	3.6	4.0	4.5	4.7	4.9	5.1	5.8	6.4	6.4	6.4	6.4
1947	1.4	1.5	1.9	1.9	2.0	2.2	2.8	3.3	3.3	3.8	3.9	3.9	3.9
1948	1.7	2.2	2.2	2.2	3.2	3.3	4.5	4.5	4.9	5.8	5.9	8.1	9.6
1949	1.8	2.6	2.6	2.6	2.6	2.6	2.8	3.1	3.2	4.1	5.0	5.8	5.8
1960	2.3	3.2	4.8	4.9	4.9	5.2	7.3	8.4	9.5	10.0	10.2	10.9	10.9
1951	1.5	2.6	3.2	3.2	3.2	3.2	3.2	4.4	5.2	5.2	5.5	6.1	6.2
1952	1.7	2.1	2.6	2.7	2.8	2.9	3.8	4.2	4.6	4.6	5.0	5.0	5.0
1953	1.7	2.3	2.4	2.6	2.7	2.7	3.5	5.0	5.0	5.3	6.3	7.1	7.1
1954	2.2	2.5	3.0	3.1	4.3	4.5	5.7	6.6	6.8	6.8	7.5	7.5	7.5
1955	1.4	1.6	1.7	2.0	2.2	2.2	3.9	5.0	5.5	5.9	6.3	6.3	6.3
1956	1.7	2.1	2.8	2.9	2.9	2.9	3.2	3.3	4.9	6.5	6.5	6.5	6.5
1957	1.6	2.5	3.1	3.1	3.6	4.3	7.2	8.7	8.8	9.8	10.2	10.8	10.8
1958	2.2	2.2	2.2	2.2	2.8	2.9	3.1	3.9	4.1	4.1	4.5	4.8	4.8
1959	1.6	5.5	5.5	5.5	5.5	5.5	5.5	5.5	6.0	6.4	6.5	7.5	7.5
1960	1.6	2.5	2.7	2.9	3.4	3.5	5.3	5.3	5.8	5.8	5.8	5.8	5.8
1961	1.6	1.7	1.8	1.9	1.9	2.0	2.2	2.2	2.3	2.4	2.4	2.4	2.4
1962	1.3	1.5	1.5	1.7	1.8	1.8	1.8	1.8	2.5	2.8	2.8	2.8	2.8
1963	1.5	2.2	2.2	2.2	2.2	2.2	2.3	2.5	2.5	2.8	3.1	3.1	3.1
1964	1.4	2.5	3.5	4.5	6.4	6.7	7.1	9.3	9.3	9.3	9.3	9.3	9.3
1965	1.7	5.5	5.5	5.5	5.5	5.5	5.5	5.8	6.5	7.4	8.7	10.1	10.1
1966	1.6	2.3	2.8	3.1	3.7	3.7	5.2	6.3	8.4	8.5	8.5	8.5	8.5
1967	2.0	2.1	2.3	2.4	2.9	3.1	3.4	3.5	3.5	3.5	3.8	4.0	4.2
1968	2.2	2.7	3.6	3.7	4.7	5.7	6.8	7.4	8.5	8.6	8.8	8.8	8.8
1969	2.1	2.4	3.0	3.1	3.4	3.4	4.6	5.2	5.2	5.2	5.2	6.4	7.3
1970	2.3	2.3	3.2	3.7	4.0	4.2	5.6	6.6	6.6	6.3	10.0	14.0	14.7
1971	1.2	2.2	2.9	3.1	3.2	3.2	3.5	3.9	3.9	4.1	4.3	4.3	4.8
1972	1.0	2.0	2.0	2.0	2.1	3.0	3.1	4.4	5.4	6.2	6.2	6.2	6.2
1973	1.0	1.7	2.7	3.0	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1974	3.9	4.4	4.6	4.6	4.6	4.6	5.0	5.0	5.1	5.1	5.1	5.1	5.1
1975	1.4	1.7	1.8	2.3	3.3	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
1976	1.3	1.4	1.4	1.6	2.3	2.3	2.4	2.4	2.8	3.5	3.5	3.5	3.5
1977	0.8	1.0	1.2	1.3	1.9	1.9	2.5	2.9	3.4	3.4	3.4	3.4	3.4
1978	3.3	6.1	8.3	10.4	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
1979	1.9	2.4	2.9	3.2	3.2	3.2	3.7	3.7	3.7	3.7	3.7	3.7	3.7
1980	2.2	3.3	3.6	3.7	3.8	4.0	4.7	6.7	7.6	9.1	10.4	10.5	10.5
1981	1.6	2.2	2.3	2.3	2.3	2.3	2.9	3.2	5.3	6.2	7.1	7.1	7.1
1982	1.3	1.7	2.9	4.1	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
1983	2.4	3.6	3.7	4.2	4.7	4.8	6.4	7.0	7.4	7.4	7.4	7.4	7.4
1984	1.3	2.1	2.7	2.8	3.1	3.1	3.4	3.7	4.2	4.5	5.8	6.1	6.1
1985	3.7	4.0	4.0	4.0	4.0	4.0	4.0	4.7	5.8	7.2	8.3	9.7	9.7
1986	2.2	2.9	3.9	4.0	4.5	4.8	4.9	6.1	6.1	7.1	7.1	7.1	7.1
1987	1.9	3.6	4.8	5.0	5.0	5.0	5.1	5.1	5.1	6.3	6.9	7.2	7.2
1988	2.7	3.1	3.2	3.3	3.8	4.7	5.4	6.9	7.0	7.1	7.3	10.7	10.7
1989	1.0	1.8	2.6	2.6	2.8	2.8	3.6	3.8	4.2	4.4	4.4	4.4	4.4
1990	1.9	2.1	2.1	2.2	3.3	3.7	4.9	5.4	5.8	5.8	6.6	6.9	10.1
Mean Annual	1.81	2.59	3.06	3.27	3.62	3.76	4.35	4.69	5.32	5.73	6.04	6.54	6.72
Maximum	3.9	6.1	8.3	10.4	11.1	11.1	11.1	11.1	11.1	11.1	11.1	14.0	14.7

(all volumes in inches)

Daytona Beach

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1942	0.8	3.5	3.8	3.8	3.8	3.8	3.8	4.3	4.3	4.4	5.0	5.8	5.8
1943	3.2	3.9	5.2	5.6	5.7	5.7	5.8	5.9	5.9	6.2	6.5	6.8	6.8
1944	1.8	3.2	3.4	3.4	3.4	3.5	4.1	4.3	4.8	4.9	5.6	5.6	5.6
1945	1.3	1.5	1.6	1.9	1.9	2.7	3.1	3.7	4.1	4.1	4.1	4.1	4.1
1946	1.8	1.9	2.0	2.1	3.3	3.3	3.4	3.6	3.6	3.6	3.6	3.6	3.6
1947	2.0	3.3	4.1	4.1	4.1	4.1	4.1	5.3	5.3	5.3	5.3	5.8	5.8
1948	1.4	2.1	2.3	2.3	2.3	2.3	2.5	4.5	4.5	4.5	6.6	6.6	11.1
1949	1.3	1.7	2.1	2.4	3.5	3.8	4.4	4.6	4.7	5.3	6.7	6.8	6.8
1950	2.1	3.0	3.9	4.3	4.7	4.8	6.5	7.6	8.4	11.5	11.7	11.8	11.8
1951	2.6	2.8	2.9	2.9	3.1	3.3	4.1	4.4	4.6	5.6	6.4	7.0	7.0
1952	2.7	3.7	3.7	3.8	3.8	3.8	3.8	3.9	3.9	6.7	6.7	7.0	7.0
1953	2.1	3.6	4.3	4.6	6.1	7.3	9.3	9.7	9.8	9.9	9.9	10.5	13.1
1954	1.2	1.8	2.2	2.2	2.5	2.5	2.9	4.5	4.8	4.8	4.8	4.8	4.8
1955	1.4	2.2	2.4	2.4	2.4	2.4	2.5	2.6	2.6	3.4	3.5	4.8	4.8
1956	1.7	1.8	1.8	1.8	2.1	2.1	3.1	3.1	3.2	3.6	3.8	3.8	3.8
1957	1.9	3.3	3.3	3.4	3.5	3.5	3.5	3.7	3.7	4.2	6.8	7.0	7.0
1958	1.4	1.6	2.0	2.2	2.5	2.6	3.5	3.7	3.8	3.8	3.9	4.0	4.7
1959	1.9	2.3	3.0	3.2	3.3	3.4	4.1	4.4	4.7	4.7	4.7	6.1	6.1
1960	2.1	3.4	3.5	3.6	3.9	3.9	4.5	5.2	5.2	6.5	6.7	6.7	6.7
1961	2.2	2.4	2.4	2.4	2.4	2.4	2.9	2.9	3.1	3.3	3.3	4.0	4.0
1962	1.8	2.5	2.5	2.8	3.0	3.0	3.4	5.4	5.4	5.5	6.0	6.8	6.8
1963	1.7	3.3	3.7	4.0	4.3	4.3	4.6	4.6	5.0	5.8	6.4	6.7	6.7
1964	2.2	2.5	2.9	3.3	4.4	5.1	6.3	6.2	6.6	6.6	6.6	8.6	8.6
1965	1.2	1.7	1.8	1.9	1.9	1.9	2.8	2.9	4.5	4.6	4.8	5.5	5.5
1966	2.1	3.1	3.1	3.1	3.7	4.7	6.2	6.3	6.3	6.3	6.3	6.3	6.3
1967	1.6	2.3	2.5	2.6	2.6	2.6	3.4	4.0	4.5	4.6	4.6	4.6	4.6
1968	1.5	1.8	2.2	2.6	2.7	2.9	4.3	5.3	5.9	6.1	7.2	7.9	7.9
1969	1.9	2.6	3.2	3.7	4.0	4.0	4.0	4.5	4.5	4.6	4.6	5.5	5.6
1970	0.8	1.1	1.4	1.7	1.7	1.8	2.8	2.9	2.9	2.9	2.9	2.9	2.9
1971	2.4	2.6	2.9	3.1	3.2	3.2	4.4	4.4	4.4	4.4	4.4	4.4	4.4
1972	1.9	2.8	3.6	3.9	4.0	4.0	5.1	6.9	6.9	6.9	6.9	6.9	6.9
1973	1.2	1.7	1.7	1.8	1.9	1.9	2.1	2.4	2.5	2.6	2.8	4.0	4.2
1974	1.8	1.9	3.1	3.4	3.9	3.9	4.6	4.8	5.5	5.5	5.5	5.5	5.5
1975	2.1	2.5	2.6	2.6	2.7	2.7	3.6	4.1	4.1	4.1	4.2	4.5	4.5
1976	1.7	2.2	2.3	2.7	3.4	3.5	4.6	5.3	5.4	7.5	8.3	8.8	8.8
1977	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.7	3.5	3.6	3.9	3.9
1978	2.7	3.1	3.4	3.4	3.5	3.5	3.5	3.5	4.1	4.3	4.4	4.4	4.4
1979	1.8	2.9	3.1	3.1	3.8	4.7	5.8	5.9	6.5	6.5	6.5	7.5	7.5
1980	1.4	1.5	1.7	1.8	1.8	2.0	2.1	2.1	2.1	2.3	2.8	3.9	5.0
1981	1.4	2.2	2.6	2.6	2.7	2.7	2.8	4.5	4.5	4.7	4.7	4.7	4.7
1982	1.3	1.7	1.9	2.4	3.8	3.9	4.3	4.4	4.4	5.5	5.5	5.5	5.5
1983	1.6	2.2	3.4	4.3	5.1	5.2	5.2	6.5	6.6	6.8	6.8	8.8	8.9
1984	2.0	2.5	3.2	3.2	4.0	4.0	4.1	4.1	4.1	4.3	4.3	5.6	5.6
1985	1.3	1.7	1.7	1.9	2.0	2.2	3.2	3.9	4.1	4.2	4.8	6.8	6.8
1986	2.3	2.6	2.8	2.9	3.0	3.1	4.4	5.5	5.5	5.8	6.0	6.0	6.0
1987	1.0	1.2	1.4	1.9	2.6	2.9	3.4	3.4	3.4	3.9	5.0	5.3	5.3
1988	1.2	1.8	2.8	3.4	4.4	4.6	5.7	5.9	5.9	5.9	5.9	5.9	5.9
1989	1.5	2.7	4.9	5.7	6.8	6.8	6.9	6.9	7.1	7.2	7.2	7.2	7.2
1990	1.4	2.1	2.3	2.3	2.3	2.3	3.7	3.8	3.9	4.1	4.1	4.1	4.1
Mean Annual	1.76	2.41	2.80	3.00	3.36	3.50	4.13	4.64	4.82	5.24	5.51	5.94	6.12
Maximum	3.2	3.9	5.2	5.7	6.8	7.3	9.3	9.7	9.8	11.5	11.7	11.8	13.1

(all volumes in inches)

Dothan

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1971	0.8	0.9	1.6	1.8	2.2	2.4	2.6	2.6	2.6	2.6	2.6	2.6	2.6
1972	1.7	2.0	3.2	3.8	4.7	5.1	6.2	6.5	6.5	6.5	6.5	6.5	6.5
1973	3.5	3.5	3.5	3.5	3.5	3.5	3.6	3.6	3.6	3.6	3.6	3.6	3.6
1974	2.3	2.5	3.5	4.0	4.0	4.0	4.0	4.6	4.8	5.9	5.9	5.9	5.9
1975	1.6	1.9	2.3	2.4	2.4	2.5	3.4	3.6	3.8	4.0	4.2	4.3	4.3
1976	2.0	2.5	4.2	5.0	5.1	5.1	5.2	5.2	5.9	5.9	5.9	5.9	5.9
1977	1.3	1.7	1.8	1.8	2.0	2.8	3.6	4.9	4.9	4.9	4.9	4.9	4.9
1978	1.9	2.4	2.9	3.6	4.9	5.3	6.5	6.7	7.4	7.6	7.6	7.6	7.6
1979	1.9	1.9	2.6	3.2	3.9	3.9	4.6	4.6	5.0	5.1	5.1	5.1	5.1
1980	1.2	1.8	2.5	3.0	3.2	3.2	4.7	5.0	5.1	5.7	5.7	5.7	5.7
1981	1.6	1.7	2.0	2.5	3.2	3.3	3.4	3.4	3.4	3.4	3.4	3.4	3.4
1982	1.9	2.1	3.8	4.8	5.5	5.6	5.6	6.5	6.5	6.5	6.5	6.5	6.5
1983	2.4	2.7	3.2	3.3	3.3	3.3	3.3	3.5	3.8	4.2	4.2	4.2	4.2
1984	1.5	1.8	2.2	2.5	2.6	2.8	3.0	3.1	3.2	3.2	3.3	3.9	3.9
1985	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
1986	1.4	1.5	2.2	2.3	2.6	2.8	3.5	3.6	3.6	3.6	3.6	3.6	3.6
1987	2.1	2.4	2.9	3.1	3.1	3.2	3.3	3.6	4.0	4.4	4.5	4.5	4.5
1989	3.1	3.6	4.2	4.7	5.9	6.2	6.6	6.6	6.8	6.8	7.0	7.0	7.0
Mean Annual	2.27	2.53	3.18	3.56	3.93	4.09	4.54	4.79	4.98	5.14	5.18	5.22	5.22
Maximum	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7

(all volumes in inches)

Dowling

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1944	0.8	1.4	2.3	2.5	3.9	3.9	4.2	4.2	4.2	4.2	4.2	4.2	4.2
1945	1.6	2.0	2.3	2.8	2.9	2.9	3.3	3.6	4.4	4.6	4.9	5.5	7.0
1946	2.3	2.4	2.6	2.6	3.4	3.9	4.1	4.8	5.6	5.7	5.7	6.6	6.6
1947	2.6	2.9	3.1	3.3	3.3	3.3	4.8	4.9	4.9	4.9	4.9	4.9	4.9
1948	1.4	1.6	2.3	2.6	3.5	3.9	4.0	4.1	4.7	5.7	5.9	7.4	7.5
1949	1.2	1.5	2.4	2.8	2.8	3.0	3.0	3.5	3.5	3.8	3.8	4.0	4.0
1950	1.3	2.2	3.2	3.3	3.3	3.4	3.5	3.5	3.5	3.5	3.5	4.5	4.5
1951	2.8	3.6	4.8	4.8	4.9	4.9	4.9	4.9	8.0	6.1	6.1	6.1	6.1
1952	2.3	2.7	2.8	2.8	2.9	2.9	3.0	4.8	4.8	4.8	4.8	4.8	4.8
1953	1.4	2.3	3.1	3.6	4.5	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8
1954	1.8	2.6	3.5	3.8	4.2	4.3	4.5	4.7	4.7	5.0	5.0	5.0	5.0
1955	1.4	2.0	2.1	2.8	3.1	3.2	3.2	3.5	3.9	4.3	4.9	6.9	6.5
1956	2.2	3.8	4.0	4.0	4.0	4.1	4.3	5.7	5.9	5.9	6.0	6.5	6.5
1957	1.7	2.8	3.8	3.8	3.8	3.8	4.3	4.8	4.9	4.9	7.1	7.5	7.5
1958	2.0	2.9	2.9	2.9	2.9	2.9	3.0	3.8	3.8	3.8	5.0	6.0	6.0
1959	3.3	4.3	4.8	6.0	6.8	6.7	7.8	8.8	8.8	8.8	8.7	8.7	8.7
1960	0.8	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
1961	1.6	1.6	1.8	1.8	2.0	2.0	2.1	2.3	2.3	2.4	2.5	2.5	2.5
1962	1.6	2.1	2.7	3.5	5.1	5.3	5.6	5.6	5.6	5.8	5.8	5.8	5.8
1963	1.7	2.5	2.6	2.6	3.7	4.2	4.5	4.5	4.5	5.5	5.5	5.5	5.5
1964	1.4	1.7	2.8	4.1	6.2	7.1	9.4	9.9	11.8	11.9	11.9	11.9	11.9
1965	0.5	0.6	0.6	0.7	0.7	0.7	1.0	1.1	1.3	1.3	1.3	1.3	1.3
1967	1.9	2.0	2.0	2.0	2.0	2.0	2.7	2.9	3.4	4.0	5.1	6.4	6.4
1968	1.9	3.7	4.1	4.1	4.1	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
1969	1.8	3.0	3.2	3.3	3.7	3.7	4.2	4.3	4.3	4.5	4.8	4.8	4.8
1970	1.3	1.8	2.5	3.0	3.8	3.8	5.3	7.1	7.8	9.2	9.9	12.7	13.3
1971	1.2	1.9	2.1	2.9	3.1	3.2	3.2	4.7	4.7	4.8	4.8	4.8	4.8
1972	0.5	1.0	1.1	1.5	2.0	2.0	3.3	3.3	4.4	4.4	4.4	4.4	4.4
1973	1.3	1.5	1.8	1.9	3.5	3.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
1974	2.5	3.4	3.8	4.4	4.7	4.8	4.9	4.9	4.9	4.9	4.9	5.1	5.1
1975	2.3	2.6	2.7	2.7	2.7	2.8	3.1	3.6	4.3	4.7	4.7	4.7	5.3
1976	1.3	2.4	3.2	3.7	3.9	4.0	4.4	4.4	4.8	5.1	5.2	5.3	5.3
1977	2.1	2.1	2.1	2.1	2.1	2.1	2.6	2.9	3.3	3.3	3.3	3.3	3.3
1978	1.2	1.5	1.8	1.9	1.9	2.0	2.3	2.7	2.7	3.0	3.1	3.4	3.4
1979	1.9	2.4	2.7	2.8	2.8	2.8	3.6	3.9	3.9	3.9	3.9	3.9	3.9
1980	1.4	2.3	3.4	4.4	5.4	5.8	6.2	8.0	9.7	9.8	10.0	10.0	10.0
1981	2.7	3.7	4.3	4.3	4.3	4.3	4.8	4.8	5.3	5.4	6.2	6.2	6.2
1982	1.5	2.4	2.7	2.7	2.7	2.7	2.8	2.9	2.9	3.3	3.4	3.4	3.4
1983	2.7	3.4	4.1	4.1	4.1	4.1	4.1	4.1	4.3	4.3	4.3	4.3	4.3
1984	1.0	1.5	2.0	2.2	2.9	3.3	3.9	3.9	3.9	3.9	3.9	3.9	3.9
1985	1.8	2.0	2.0	2.1	2.7	2.8	3.6	4.0	4.3	4.3	4.3	4.3	4.3
1986	2.0	2.6	3.9	4.1	4.1	4.1	4.6	4.8	4.8	4.8	4.8	4.8	4.8
1987	2.0	2.6	2.9	3.0	3.0	3.0	3.2	3.3	3.4	4.3	5.8	5.8	5.8
1988	1.4	1.8	2.4	2.5	3.6	4.1	4.4	4.8	5.9	6.3	6.4	6.4	6.4
1989	1.8	1.8	2.0	2.2	2.3	2.3	2.7	2.7	2.7	2.8	2.9	3.8	3.8
1990	1.7	2.4	2.4	3.5	3.5	3.5	4.6	5.4	5.4	5.4	5.8	6.1	7.3
Mean Annual	1.72	2.37	2.90	3.10	3.46	3.60	4.12	4.46	4.72	4.93	5.15	5.46	5.55
Maximum	3.3	4.3	4.8	6.0	8.6	7.1	9.4	9.9	11.8	11.9	11.8	12.7	13.3

(all volumes in inches)

Fargo

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1946	2.6	2.9	3.1	3.2	3.2	3.2	3.2	3.6	4.2	6.0	7.0	7.1	7.1
1949	2.2	3.2	3.5	3.5	3.5	3.6	3.9	3.9	3.9	4.2	4.2	4.2	4.2
1950	1.9	2.0	2.2	2.3	2.4	2.5	3.1	4.3	4.3	5.0	5.3	6.6	7.8
1951	1.4	2.7	2.8	2.8	2.9	3.0	3.1	3.1	3.1	3.1	3.2	3.4	3.4
1952	1.3	1.4	1.4	1.5	1.7	1.7	2.0	2.1	2.1	2.1	2.1	2.1	2.1
1953	0.9	1.4	2.4	3.0	3.9	4.1	4.3	4.3	4.3	4.3	4.3	4.3	4.3
1954	1.4	1.4	1.7	1.7	1.7	1.7	1.8	1.9	1.9	1.9	1.9	1.9	1.9
1955	1.0	1.1	1.4	2.7	2.7	2.7	2.7	2.7	2.7	2.9	3.4	3.4	3.4
1956	0.7	2.3	2.3	2.3	2.3	2.3	2.3	2.5	2.5	2.5	2.5	2.5	2.5
1957	2.1	2.1	2.4	3.8	4.2	4.4	5.3	5.9	6.0	6.2	6.3	6.4	6.4
1958	1.3	1.8	2.0	2.6	3.3	3.3	3.8	3.8	3.8	3.8	3.8	3.8	3.8
1959	2.0	2.1	2.4	2.7	2.8	3.4	4.0	4.0	4.0	4.0	4.0	4.0	4.0
1960	3.2	4.3	4.7	4.9	4.9	4.9	5.0	5.0	5.0	5.0	5.0	5.0	5.0
1961	2.5	4.2	6.3	6.4	6.4	6.4	7.0	7.4	7.4	8.0	8.0	8.0	8.0
1962	2.3	2.5	3.6	4.3	6.0	6.6	7.0	7.0	7.0	7.0	7.0	7.0	7.0
1963	2.2	3.9	4.3	4.7	4.8	4.8	4.8	5.6	5.6	5.6	5.6	5.8	5.8
1964	2.2	3.5	5.6	6.3	6.7	6.7	8.2	9.6	9.9	11.6	11.8	11.8	11.8
1965	1.9	2.3	2.5	3.1	3.9	3.9	3.9	3.9	4.0	4.7	5.1	5.3	5.3
1966	1.1	1.7	2.0	2.2	3.3	3.3	3.3	3.4	3.4	3.4	3.5	3.8	3.8
1967	1.5	1.7	1.7	1.7	1.7	1.7	2.0	2.4	2.6	2.8	2.8	2.8	2.8
1968	1.6	2.0	2.0	2.0	2.0	2.2	2.2	2.4	3.6	3.6	3.6	3.6	3.6
1969	2.9	3.0	3.0	3.0	3.2	3.3	3.7	3.7	3.7	4.4	5.0	5.2	5.2
1970	1.9	2.4	2.6	2.7	3.6	4.1	4.2	4.6	4.6	4.6	4.6	5.1	5.1
1971	1.8	2.0	2.3	2.5	2.7	2.7	4.1	4.1	4.1	4.5	6.3	6.4	6.4
1972	1.2	1.4	2.4	3.2	3.6	3.7	3.9	4.4	4.7	4.8	4.9	5.2	5.2
1973	2.0	2.2	2.2	2.3	3.5	3.6	4.0	4.4	4.8	4.8	5.3	5.4	5.4
1974	1.3	1.5	2.1	2.4	2.7	2.8	3.0	3.0	3.0	3.0	3.1	3.1	3.1
1975	1.3	2.0	2.1	2.2	3.0	3.5	4.4	4.8	5.0	5.0	5.0	5.0	5.0
1976	2.8	3.8	4.7	4.7	4.7	4.7	4.8	5.2	5.3	5.8	6.3	6.5	6.5
1977	0.9	1.4	1.6	1.6	1.7	1.7	2.4	2.5	3.3	3.3	3.3	3.3	3.3
1978	1.1	2.0	2.2	2.2	2.2	2.2	2.3	2.4	2.4	3.1	3.4	3.4	3.4
1979	1.4	1.6	1.8	2.0	3.2	3.5	4.1	4.4	4.6	5.4	5.5	5.6	5.6
1980	1.5	2.1	3.1	3.2	3.4	3.5	4.1	4.2	4.2	4.2	4.2	4.2	4.2
1981	2.1	2.5	3.2	3.5	3.6	3.6	3.6	3.6	3.6	4.0	4.0	4.0	4.0
1982	1.6	1.9	1.9	1.9	1.9	1.9	2.0	2.8	3.1	3.3	3.4	3.4	3.4
1983	2.1	2.5	2.5	2.5	2.5	2.5	2.7	3.3	3.6	3.6	3.7	4.5	4.5
1984	1.3	1.3	2.3	2.5	3.4	3.8	5.6	5.6	5.6	5.6	5.6	5.6	5.6
1985	1.5	1.7	2.4	2.4	2.4	2.4	2.4	2.5	2.9	2.9	2.9	3.2	3.2
1986	1.8	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
1987	2.5	3.6	3.8	3.9	4.2	4.2	4.8	5.0	5.2	6.3	6.9	7.3	7.3
1988	1.8	2.4	2.5	2.9	3.8	4.1	4.9	6.0	7.4	8.2	8.2	8.2	8.2
1989	1.4	1.4	1.4	1.4	1.6	1.6	1.8	2.9	2.9	2.9	2.9	2.9	2.9
1990	1.3	1.6	2.2	2.5	3.5	3.7	4.1	4.9	6.0	6.0	6.0	6.0	6.0
Mean Annual	1.74	2.32	2.73	2.98	3.34	3.45	3.83	4.13	4.31	4.61	4.76	4.90	4.93
Maximum	3.2	4.9	6.3	6.4	6.7	6.7	8.2	9.6	9.9	11.6	11.8	11.8	11.8

(all volumes in inches)

Folkston

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1948	1.5	1.6	2.0	2.0	2.0	2.0	2.3	2.7	3.5	3.5	3.7	5.2	5.6
1949	1.3	2.0	2.4	2.9	3.5	3.6	4.5	4.7	4.7	4.8	5.0	8.7	9.3
1950	2.5	3.1	4.2	4.9	5.4	5.6	6.1	7.0	7.8	8.7	9.0	9.0	9.0
1951	2.6	3.6	4.2	4.6	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
1952	1.4	2.7	3.0	3.0	3.0	3.0	3.2	3.2	3.3	3.3	3.3	3.3	3.3
1953	1.8	2.8	2.8	2.8	2.8	3.0	3.2	3.5	4.0	6.6	6.8	6.8	6.8
1954	1.6	1.6	1.7	1.7	1.7	1.7	2.5	3.0	3.0	3.0	3.0	3.0	3.0
1955	2.0	2.7	2.8	2.8	2.8	2.8	4.1	4.8	4.8	5.6	5.6	5.7	5.7
1956	1.0	1.2	1.3	1.7	2.5	2.8	3.6	3.6	3.6	3.6	3.6	3.6	3.6
1957	2.2	2.6	3.7	4.2	5.4	5.9	6.4	6.6	6.8	7.0	7.1	7.5	7.5
1958	1.8	2.0	2.6	2.6	2.6	2.7	3.0	3.1	3.1	3.5	3.5	3.8	3.8
1959	2.9	4.5	5.0	5.0	5.2	5.2	5.5	5.6	5.6	5.8	5.8	5.8	5.8
1960	1.6	2.5	3.8	3.9	5.4	5.8	6.4	6.7	7.0	8.2	8.5	8.5	8.5
1961	1.8	3.4	4.6	5.2	5.6	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
1962	1.9	2.2	2.3	2.3	2.9	3.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
1963	1.2	1.6	2.2	2.3	2.4	2.4	2.8	2.8	3.2	3.6	3.7	4.0	4.0
1964	2.3	2.3	2.3	2.7	2.8	3.2	4.6	5.1	5.3	7.8	8.2	8.2	8.2
1965	1.6	1.8	2.0	2.2	3.5	3.5	3.6	3.6	3.9	4.0	4.0	4.1	4.1
1966	2.5	3.6	3.6	3.6	3.6	3.6	4.7	4.7	4.7	5.0	5.2	6.2	6.2
1967	2.6	3.1	3.3	4.1	4.2	4.2	5.2	5.3	5.3	5.3	5.3	5.3	5.3
1968	1.8	2.6	2.9	3.2	3.9	4.2	4.8	4.9	4.9	4.9	4.9	4.9	4.9
1969	2.6	3.7	5.0	5.0	5.1	6.2	6.6	6.8	6.8	6.8	6.8	6.8	6.8
1970	2.0	2.1	2.5	2.5	2.6	3.0	5.1	5.5	5.5	5.5	5.5	5.5	5.5
1971	1.2	1.4	2.1	2.8	2.8	2.8	3.0	3.4	3.4	4.4	4.4	4.4	4.4
1972	2.1	1.6	2.4	3.0	3.7	3.9	4.7	4.9	5.1	5.1	5.1	5.1	5.1
1973	1.4	1.9	2.4	2.7	3.7	4.4	6.8	6.9	6.9	6.9	6.9	6.9	6.9
1974	2.1	2.5	2.6	2.6	2.6	2.6	3.1	3.1	3.4	3.4	3.7	3.7	3.7
1975	1.8	2.4	2.5	2.5	2.9	3.2	4.5	5.0	5.3	5.3	5.3	5.3	5.3
1976	1.6	2.4	2.4	2.4	2.4	2.5	3.5	4.5	4.5	4.8	4.8	4.8	4.8
1977	1.6	1.8	1.9	2.1	2.5	2.5	2.8	3.3	3.3	3.4	3.5	3.5	3.5
1978	4.2	5.6	6.2	6.6	6.7	6.7	6.8	6.8	6.8	6.8	6.8	6.8	6.8
1979	2.8	2.9	3.3	3.4	3.5	3.5	4.0	4.1	4.1	4.2	4.8	5.5	5.5
1980	1.7	2.0	2.1	2.1	2.4	2.6	3.5	3.5	4.4	4.6	4.6	4.6	4.6
1981	3.4	4.6	4.7	4.7	4.7	4.7	5.7	6.8	6.8	6.8	6.8	6.8	6.8
1982	1.3	1.5	1.8	2.0	2.1	2.7	2.7	3.3	4.4	4.4	4.4	4.4	4.4
1983	1.9	2.2	2.3	2.3	2.3	2.3	2.5	2.5	2.5	2.5	2.5	2.5	2.5
1984	1.9	2.2	2.2	2.2	2.3	2.6	3.7	3.7	3.9	4.1	4.1	4.1	4.1
1985	1.8	1.9	2.0	2.2	2.6	2.6	3.3	4.2	4.8	5.9	6.0	7.0	7.2
1986	1.8	2.1	2.4	2.4	2.4	3.2	3.5	3.5	3.6	4.5	4.6	4.6	4.6
1987	1.7	1.7	2.1	2.1	2.1	2.1	3.2	3.2	4.0	4.5	4.9	5.4	5.5
1988	1.1	1.3	2.1	2.8	3.7	4.0	4.9	6.8	7.9	8.6	8.6	8.6	8.6
Mean Annual	1.95	2.47	2.87	3.08	3.39	3.60	4.29	4.59	4.81	5.17	5.26	5.49	5.52
Maximum	4.2	5.6	6.2	6.6	6.7	6.7	6.8	7.0	7.9	8.7	9.0	9.0	9.3

(all volumes in inches)

Fort Myers

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1960	1.5	2.3	2.7	3.2	3.9	4.1	4.6	4.8	5.0	5.3	6.9	7.2	8.7
1961	2.2	3.1	3.1	3.1	3.1	3.1	3.7	3.7	4.0	4.0	4.4	6.6	6.9
1962	2.2	2.7	4.3	5.9	7.8	8.2	9.3	10.2	10.2	10.3	10.4	10.4	10.4
1963	1.9	2.0	2.2	2.6	3.1	3.1	3.2	3.3	3.3	3.5	4.0	6.0	6.1
1964	1.7	2.7	2.8	2.8	2.8	2.8	2.8	2.9	2.9	3.7	4.5	4.7	4.7
1965	3.6	3.7	3.7	3.7	3.7	3.7	4.1	4.2	4.2	4.3	4.7	5.4	5.4
1966	1.8	1.9	2.1	2.2	2.3	2.3	2.6	3.0	3.2	5.0	5.0	5.0	5.0
1967	2.5	2.9	2.9	3.2	3.9	4.0	6.7	7.6	7.8	8.7	9.3	9.3	9.3
1968	2.8	3.1	3.1	3.3	4.4	5.0	5.8	6.1	6.2	6.8	6.9	6.9	6.9
1969	2.1	3.5	5.4	5.7	5.7	5.7	5.7	6.7	6.7	6.7	6.7	6.7	7.6
1970	1.7	2.3	3.2	4.4	5.5	5.6	7.8	8.0	8.0	8.0	8.0	8.0	8.0
1971	2.0	2.0	2.0	2.2	2.4	2.4	2.9	2.9	3.4	3.6	4.9	5.9	5.9
1972	3.7	4.2	4.6	4.6	4.6	4.6	5.6	5.6	5.6	5.7	5.8	6.7	6.8
1973	2.9	3.0	3.3	3.5	3.7	4.3	5.6	5.6	5.6	5.6	5.6	5.6	5.6
1974	2.0	2.9	3.9	4.7	5.2	5.3	5.8	8.2	8.5	8.7	9.3	9.7	9.7
1975	2.9	3.7	3.8	3.8	3.9	3.9	3.9	4.3	4.7	5.1	5.1	5.3	5.3
1976	1.7	2.4	2.5	2.6	2.8	2.8	2.8	2.9	3.4	3.5	4.1	5.0	5.0
1977	2.6	3.5	3.6	3.9	4.0	4.0	4.4	4.4	4.4	4.4	4.4	4.4	5.5
1978	2.3	4.5	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
1979	2.2	3.4	3.5	3.5	3.5	5.1	5.5	6.4	6.4	7.3	7.8	8.2	8.2
1980	1.7	2.7	3.7	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
1981	2.3	2.4	2.7	3.4	3.6	3.6	5.2	6.1	6.9	7.1	8.0	8.3	8.3
1982	1.7	2.1	2.2	2.4	3.6	4.3	6.0	6.4	7.7	8.5	9.0	9.0	9.0
1983	2.2	2.4	3.8	4.2	5.1	5.1	5.3	6.9	6.9	9.2	11.0	11.6	11.6
1984	1.8	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
1985	3.8	6.3	7.8	8.0	8.2	8.2	8.2	8.2	8.3	8.3	8.3	8.3	8.3
1986	2.2	2.5	2.5	2.6	2.7	2.7	3.4	3.9	3.9	4.3	4.3	4.3	4.3
1987	3.2	3.5	3.6	3.8	3.8	3.8	3.9	5.3	5.3	5.8	6.8	6.8	6.8
1988	0.8	1.6	1.7	2.0	2.1	2.1	2.3	2.6	2.6	2.9	3.4	3.9	3.9
1989	3.0	5.4	7.5	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
1990	1.7	3.4	3.7	3.8	4.0	4.0	4.2	4.7	4.9	6.2	7.5	8.2	8.2
Mean Annual	2.28	3.22	3.69	4.02	4.35	4.50	5.06	5.50	5.66	6.07	6.51	6.87	7.00
Maximum	3.8	7.7	7.8	8.0	8.2	8.2	9.3	10.2	10.2	10.3	11.0	11.6	11.6

(all volumes in inches)

Gainesville

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1943	1.6	2.6	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.0	3.0	3.0	3.0
1944	1.4	2.1	3.5	5.0	6.8	7.2	6.7	9.0	9.0	9.0	9.0	9.0	9.0
1945	2.4	3.0	3.2	3.3	3.3	3.3	3.5	4.9	5.2	6.3	7.0	7.9	6.7
1946	1.5	1.7	2.0	2.6	3.5	3.7	4.6	5.4	5.9	7.1	7.1	7.1	7.1
1947	1.9	2.1	2.6	2.8	3.0	3.0	3.0	3.5	6.2	6.2	6.5	6.5	6.5
1948	1.3	1.5	1.7	2.0	2.2	2.2	2.2	2.2	4.1	4.8	4.8	4.8	4.9
1949	2.5	3.0	3.1	3.1	3.1	3.1	3.1	3.1	6.9	6.9	7.2	7.8	7.9
1950	1.3	2.0	2.7	3.5	4.4	4.4	5.9	7.7	8.3	9.8	10.2	10.5	11.1
1951	1.9	2.7	2.7	2.7	2.7	2.7	2.7	3.7	4.5	5.3	5.5	6.5	6.5
1952	1.3	1.4	1.8	2.1	2.2	2.2	2.4	2.8	3.2	3.2	3.2	3.2	3.2
1953	2.0	2.4	3.0	3.8	4.4	4.5	4.5	4.5	4.8	5.5	5.7	6.6	6.6
1954	1.5	2.0	2.9	3.7	4.2	4.2	4.3	4.3	4.3	4.3	4.3	4.3	4.3
1955	2.4	2.6	2.7	2.7	2.7	2.7	2.7	2.8	3.0	3.1	4.3	4.3	4.3
1956	2.6	2.6	3.3	3.3	3.3	3.3	3.3	4.2	4.2	4.2	4.2	4.2	4.2
1957	2.3	2.3	2.4	2.4	2.4	2.4	2.4	3.3	3.4	4.3	5.2	5.5	5.6
1958	1.8	2.4	3.0	3.4	3.6	3.6	3.6	3.7	3.7	3.7	3.7	3.7	3.7
1959	1.9	3.4	3.4	3.4	3.5	3.6	3.9	4.0	4.9	5.5	5.5	7.3	7.3
1960	1.4	1.8	2.7	3.0	3.1	3.1	3.5	3.9	4.0	5.7	5.7	5.7	5.7
1961	2.3	2.6	2.6	2.7	2.8	2.8	2.9	3.2	3.2	3.4	3.4	3.4	3.4
1962	2.0	2.1	2.1	2.1	2.1	2.2	2.4	2.4	3.4	3.6	3.6	3.7	3.7
1963	1.6	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.3
1964	2.0	2.1	3.9	3.9	3.9	3.9	6.1	7.5	8.7	10.7	11.0	11.0	11.0
1965	1.3	2.0	2.3	2.3	2.3	2.3	3.4	4.2	4.3	4.8	6.3	7.6	8.8
1966	2.5	3.2	3.6	3.6	3.9	4.0	4.4	4.5	4.9	5.6	5.8	5.8	5.6
1967	2.2	2.3	2.6	3.4	3.9	4.1	4.1	4.1	4.1	4.2	4.3	4.3	4.8
1968	1.7	2.2	2.5	2.9	3.6	3.8	4.0	4.1	4.1	5.6	5.8	5.8	5.8
1969	1.2	1.5	1.9	2.1	2.4	2.4	2.9	3.0	3.0	3.2	3.2	3.2	3.2
1970	2.4	3.0	3.7	4.9	6.0	6.1	6.3	6.3	6.3	6.3	6.3	6.5	6.6
1971	1.8	1.9	1.9	2.1	2.8	3.0	3.4	3.8	3.9	4.3	4.7	5.8	6.7
1972	1.9	3.1	3.6	3.6	3.8	3.9	5.6	7.2	8.8	9.1	9.2	9.2	9.2
1973	2.4	2.4	2.5	2.6	2.6	2.7	2.9	3.3	3.3	3.3	3.3	3.3	3.3
1974	1.5	1.8	2.1	2.2	2.4	2.4	2.6	2.6	2.6	4.4	4.4	4.4	4.4
1975	2.7	3.0	3.0	3.0	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1976	3.0	3.3	3.7	3.7	3.7	3.7	4.6	4.7	4.9	5.5	6.9	8.9	8.9
1977	2.7	3.1	3.3	3.4	3.4	3.4	3.4	3.5	3.6	3.6	3.6	3.6	3.6
1978	1.4	2.4	2.8	2.7	3.0	3.0	4.0	4.0	4.8	4.9	5.0	5.0	5.0
1979	2.2	3.5	4.5	5.1	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
1980	1.1	1.3	1.7	2.0	2.2	2.4	2.6	4.4	4.7	4.7	4.9	4.9	4.9
1981	1.3	1.6	2.0	2.5	3.0	3.1	3.2	3.5	3.6	3.6	3.6	3.6	3.6
1982	2.2	2.4	3.1	4.0	5.4	5.7	5.7	5.8	5.9	7.6	7.6	7.6	7.6
1983	2.1	3.1	4.1	4.1	4.1	4.2	4.2	4.8	4.9	4.9	5.4	5.6	5.6
1984	1.0	1.4	2.6	2.7	2.7	2.7	2.8	3.1	3.1	3.1	3.1	3.1	3.1
1985	2.4	2.5	2.5	2.5	2.7	2.9	3.2	3.3	3.9	3.9	3.9	3.9	3.9
1986	1.7	2.2	2.3	2.3	2.4	2.4	2.8	3.0	3.3	3.3	3.8	3.8	3.8
1987	1.3	1.6	3.2	3.5	3.5	3.5	3.9	4.0	4.2	5.9	6.7	6.7	6.7
1988	1.6	2.7	3.6	4.4	4.8	5.2	6.6	7.8	8.0	8.2	9.4	9.4	9.4
1989	2.0	2.1	2.1	2.1	2.1	2.1	3.2	3.3	3.3	4.4	4.4	4.4	4.4
1990	1.9	3.1	3.2	3.2	3.2	3.2	3.8	4.7	5.8	6.6	6.9	7.0	7.0
Mean Annual	1.88	2.36	2.80	3.07	3.43	3.51	3.99	4.38	4.66	5.17	5.46	5.63	5.74
Maximum	3.0	3.5	4.5	5.1	6.9	7.2	8.7	9.0	9.0	10.7	11.0	11.0	11.1

(all volumes in inches)

Graceville

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1942	1.3	2.0	2.7	3.0	3.1	3.1	3.9	4.0	4.2	4.3	4.3	4.3	4.3
1943	1.2	1.5	2.6	2.7	2.9	3.0	3.5	3.5	3.5	3.5	3.5	3.5	3.5
1944	1.5	2.0	2.1	2.2	2.6	2.6	3.7	4.5	4.5	4.5	4.5	4.5	4.5
1945	2.1	3.2	3.6	3.6	3.7	3.8	4.8	4.9	4.9	4.9	4.9	4.8	4.9
1946	1.5	1.8	2.3	2.6	2.9	2.9	4.6	5.5	6.3	6.3	6.3	6.3	6.3
1947	1.2	2.2	2.9	3.7	4.8	4.9	5.8	7.4	8.4	8.4	8.4	8.4	8.4
1948	1.4	2.3	3.6	3.7	5.8	6.3	8.9	10.3	10.3	10.7	12.5	13.1	13.2
1949	1.2	1.3	1.4	1.6	1.7	1.7	1.8	2.8	2.8	2.8	3.0	4.1	4.1
1950	0.5	0.8	0.8	0.9	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1951	1.3	1.3	1.3	1.3	1.6	1.6	2.3	3.2	3.2	3.2	3.2	3.2	3.2
1952	1.2	1.6	2.2	2.2	2.5	2.5	4.5	4.7	5.1	5.3	5.3	5.3	5.3
1953	1.7	2.0	3.1	3.8	4.1	4.2	5.0	5.7	6.0	6.0	6.0	6.0	6.0
1954	1.2	1.4	1.5	1.5	1.5	1.5	2.2	2.2	2.2	2.4	2.4	2.4	2.4
1955	2.0	4.0	5.7	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
1956	1.2	2.0	2.0	2.0	4.2	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
1957	1.7	2.4	2.4	2.4	2.4	2.4	3.0	3.1	3.1	3.7	4.0	4.4	4.4
1958	1.2	1.6	2.7	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.5	3.5
1959	1.9	2.6	3.2	3.2	2.6	3.2	3.9	3.9	3.9	4.5	5.3	6.0	6.0
1960	2.0	2.6	3.2	4.5	5.1	5.4	7.1	7.6	7.9	9.2	9.3	9.3	9.3
1961	1.4	1.9	2.2	2.4	3.1	3.2	3.6	4.1	4.1	5.1	5.1	5.6	5.6
1962	3.1	5.8	7.8	8.0	8.4	8.6	8.8	8.8	8.8	8.8	8.8	8.8	8.8
1963	2.0	2.2	2.4	2.4	2.9	2.9	3.6	4.6	4.7	5.2	5.3	6.1	6.1
1965	1.6	1.7	1.9	2.0	2.1	2.2	2.7	3.4	3.7	4.1	5.1	5.1	5.3
1966	1.7	2.5	2.6	2.6	2.9	3.0	3.0	3.9	3.9	4.1	4.4	5.5	5.5
1967	1.5	1.8	1.9	2.2	2.5	3.0	3.0	3.0	3.5	3.5	5.1	5.6	5.9
1968	1.5	2.2	2.8	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
1969	1.3	1.5	1.6	1.8	2.2	2.3	3.4	3.7	3.7	3.7	3.7	3.7	3.7
1970	2.0	2.4	2.6	2.8	3.3	3.4	3.9	4.6	5.2	6.5	6.9	8.0	8.0
1971	2.8	3.0	3.0	3.0	3.0	3.0	3.3	3.4	3.4	3.4	3.8	3.8	3.8
1972	1.8	2.1	3.2	3.7	4.2	4.4	5.1	5.7	5.7	6.2	6.2	6.2	6.2
1973	1.9	2.6	2.8	3.2	3.3	3.3	3.5	4.0	4.0	4.6	4.6	4.6	4.6
1974	2.2	2.5	2.6	2.8	3.0	3.1	4.9	5.0	5.1	5.1	5.1	5.1	5.1
1975	2.0	2.1	2.1	2.1	2.1	2.2	4.3	4.3	4.3	4.9	6.0	6.0	6.0
1976	1.5	2.1	2.5	2.6	2.6	2.6	4.1	4.1	4.1	4.2	4.2	4.2	4.2
1977	1.1	1.6	2.4	2.6	3.0	3.0	3.0	3.5	3.5	4.4	4.4	4.4	4.4
1978	1.9	2.2	2.8	3.5	5.5	6.0	7.1	7.1	7.7	7.9	7.9	7.9	7.9
1979	2.3	3.3	4.5	5.9	6.5	6.6	6.6	6.7	6.7	6.9	7.7	7.9	7.9
1980	1.4	2.1	3.0	3.4	3.6	3.6	3.9	4.6	4.6	5.0	5.0	5.0	5.0
1981	1.5	2.2	2.6	2.6	2.6	2.6	3.0	3.0	3.0	3.0	3.0	3.0	3.0
1982	1.8	2.8	4.4	5.0	5.6	5.7	5.7	5.7	5.7	6.1	6.1	6.1	6.1
1983	1.5	2.2	2.7	2.8	2.9	2.9	3.1	3.8	3.9	4.2	4.3	5.3	5.3
1984	2.2	3.2	4.0	4.3	4.7	4.8	5.2	5.4	5.5	5.5	5.5	5.5	5.5
1985	1.2	1.3	1.5	1.5	1.5	1.7	1.8	1.9	2.0	2.0	2.0	2.0	2.0
1986	1.0	1.6	2.7	3.0	3.1	3.1	3.1	3.6	3.6	3.6	3.6	3.6	3.6
1987	1.2	2.1	2.7	3.2	3.2	3.2	3.2	4.3	4.6	4.8	4.8	4.8	4.8
1988	1.4	2.0	2.7	2.8	2.8	2.9	3.7	4.6	4.6	5.4	7.7	8.4	8.4
1989	2.0	2.8	4.2	4.4	5.2	6.4	8.5	10.0	10.0	11.3	11.7	11.7	11.7
1990	1.1	1.6	2.1	2.5	2.7	2.7	2.8	4.2	4.8	4.8	4.8	4.8	4.8
Mean Annual	1.61	2.20	2.76	3.04	3.41	3.54	4.19	4.64	4.77	5.05	5.29	5.48	5.49
Maximum	3.1	5.8	7.8	8.0	8.4	8.6	8.9	10.3	10.3	11.3	12.5	13.1	13.2

(all volumes in inches)

Grady

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1958	0.6	0.9	1.0	1.1	1.8	1.9	2.3	2.5	3.1	4.1	4.1	4.1	4.1
1959	1.2	1.4	2.1	2.3	2.8	3.3	4.3	6.6	6.6	6.7	6.7	7.9	8.3
1960	1.7	2.6	2.8	2.8	2.8	2.8	3.2	3.3	4.3	5.1	5.1	5.1	5.1
1961	1.7	2.0	2.0	2.2	2.8	2.8	3.0	3.4	3.4	3.6	3.6	3.6	3.6
1962	1.3	2.0	2.1	2.1	2.1	2.1	3.5	3.5	4.4	5.2	5.4	5.5	5.5
1963	1.2	1.7	1.9	2.0	2.2	2.3	2.4	2.4	2.6	2.6	2.9	2.9	2.9
1964	1.5	1.9	3.0	3.6	4.3	4.8	6.9	8.8	10.0	12.0	12.0	12.0	12.0
1965	1.5	2.7	3.5	3.9	3.9	3.9	4.0	4.0	4.0	4.0	4.0	5.1	5.1
1966	1.5	2.9	3.2	3.2	3.3	3.4	3.4	4.0	4.5	4.6	4.6	4.6	4.7
1967	1.7	1.9	3.5	3.5	3.8	3.8	3.9	3.9	4.0	4.3	4.6	6.2	7.5
1968	2.7	3.7	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	4.1	4.1
1969	1.8	2.6	3.4	3.6	3.7	3.7	3.9	4.6	4.6	4.6	4.6	5.2	6.7
1970	1.3	1.8	2.9	3.2	3.4	3.5	4.3	5.3	5.7	7.5	9.2	11.8	11.9
1971	1.6	2.0	2.1	2.1	2.2	2.7	2.7	3.5	3.6	5.2	5.5	6.0	6.0
1972	1.6	2.1	2.7	2.8	4.0	4.1	5.6	6.9	7.0	8.4	8.5	9.0	9.1
1973	2.5	2.9	2.9	3.0	3.0	3.0	3.1	3.2	3.3	3.4	3.8	6.4	6.6
1974	1.9	2.4	3.0	3.4	4.2	4.2	4.6	4.6	4.6	4.6	4.6	4.6	4.6
1975	1.6	1.8	1.8	2.3	3.3	3.4	3.5	3.5	3.5	3.5	3.8	4.1	4.1
1976	1.9	2.6	2.6	2.6	3.4	3.6	4.6	4.6	5.5	6.1	6.1	6.1	6.1
1977	1.2	1.3	1.7	2.1	2.4	2.4	2.7	3.3	3.8	3.9	3.9	3.9	3.9
1978	2.3	3.6	5.9	7.9	9.6	9.6	9.7	9.7	9.7	10.3	10.3	10.3	10.3
1979	2.1	2.6	3.0	3.1	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
1980	2.4	2.8	4.7	5.2	5.5	5.6	6.8	8.4	8.5	8.6	9.1	9.1	9.1
1981	1.3	1.6	2.3	2.3	2.7	2.7	3.4	3.5	3.5	3.5	3.9	3.9	3.9
1982	1.6	2.2	2.9	3.0	3.5	3.5	3.6	4.1	4.2	4.2	4.2	4.2	4.2
1983	2.4	2.9	3.3	3.4	3.5	3.5	3.5	3.7	4.9	4.9	4.9	4.9	4.9
1984	1.6	2.2	2.5	2.8	3.3	3.6	4.1	4.3	4.7	5.7	5.7	5.7	5.7
1985	1.4	2.2	3.1	3.6	4.1	4.2	5.1	5.7	6.2	6.5	6.5	6.5	6.5
1986	2.7	2.7	2.8	2.9	3.1	3.1	3.1	3.4	3.4	3.9	3.9	3.9	3.9
1987	2.1	3.4	3.5	3.5	3.5	3.5	3.6	3.6	3.6	3.8	3.8	3.8	3.8
1988	1.4	2.1	2.6	3.4	4.2	4.2	4.3	6.2	6.4	6.6	6.6	6.6	6.6
1989	0.4	0.7	0.7	0.7	0.8	0.8	1.1	1.2	1.3	1.3	1.3	1.3	1.3
Mean Annual	1.68	2.26	2.79	3.04	3.48	3.55	4.01	4.49	4.78	5.21	5.35	5.71	5.83
Maximum	2.7	3.7	5.9	7.9	9.6	9.6	9.7	9.7	10.0	12.0	12.0	12.0	12.0

(all volumes in inches)

Homestead

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1942	1.5	2.4	3.5	4.6	5.9	6.0	6.8	7.7	7.7	8.0	8.0	11.0	12.7
1943	2.4	2.4	2.4	2.4	3.1	3.1	3.5	3.5	3.8	4.3	5.0	6.7	6.6
1944	3.0	3.7	3.9	3.9	3.9	3.9	4.3	5.0	5.0	5.0	5.0	5.0	5.0
1945	1.8	2.4	2.4	2.4	2.7	5.2	5.8	5.7	5.7	6.3	7.5	7.6	7.6
1946	1.9	2.6	3.2	3.4	3.6	3.6	3.7	3.9	4.8	5.0	5.0	5.3	5.8
1947	2.5	2.7	3.7	7.0	8.8	8.1	8.8	9.7	9.7	12.1	12.1	12.5	12.9
1948	1.3	6.1	6.1	6.8	6.9	6.9	6.9	6.9	7.5	8.3	8.4	8.4	8.4
1949	1.7	2.5	4.0	4.3	4.8	5.4	5.9	5.8	5.9	6.2	6.3	8.2	10.1
1950	2.4	3.2	3.8	3.8	3.8	3.8	4.1	4.8	5.1	5.4	5.6	7.3	7.8
1951	1.8	2.0	2.0	2.0	2.1	2.2	2.8	3.5	3.5	5.3	5.3	5.3	5.4
1952	2.3	3.3	3.8	3.8	3.9	3.9	3.9	3.9	4.9	5.0	5.0	5.0	5.0
1953	2.9	3.4	3.4	3.4	3.4	3.4	3.7	4.7	5.3	6.1	6.3	6.3	6.3
1954	1.7	2.3	2.4	2.4	2.4	2.4	4.2	4.8	4.8	5.5	6.4	7.2	7.2
1955	1.5	2.2	2.4	2.7	3.0	3.3	3.5	4.8	4.8	5.9	5.9	6.1	6.1
1956	2.2	2.7	3.1	3.3	3.4	3.4	3.4	3.5	3.8	3.9	3.9	3.9	3.9
1957	1.7	2.1	2.4	2.4	2.5	2.5	2.5	2.8	2.8	3.6	3.6	4.7	4.7
1958	2.1	2.4	3.8	4.3	5.1	5.9	10.7	11.9	11.9	11.9	11.9	11.9	11.9
1959	3.5	4.0	4.5	4.8	4.8	4.8	5.1	5.5	5.9	7.7	8.0	9.7	9.7
1960	2.7	4.0	4.2	4.3	4.4	5.1	6.7	7.2	7.2	8.3	9.0	10.4	11.1
1961	2.5	2.8	2.8	2.8	2.8	2.8	4.1	4.2	4.3	5.4	5.5	5.7	5.7
1962	2.2	2.8	3.4	3.5	4.2	4.3	5.5	5.8	6.6	7.7	8.4	9.8	10.7
1963	2.0	2.4	3.0	3.4	5.0	5.4	5.8	7.3	7.8	7.8	8.4	12.0	12.0
1964	2.5	3.6	4.2	4.3	5.2	5.4	6.0	6.2	6.3	6.4	6.4	6.6	7.7
1965	2.1	2.8	3.1	3.2	3.7	4.3	5.5	5.7	5.8	5.9	5.9	5.9	5.9
1966	2.2	3.6	3.9	3.9	3.9	3.9	5.4	5.4	5.5	5.6	5.6	5.6	5.6
1967	1.7	1.9	2.9	3.4	3.4	3.4	3.5	3.9	4.3	5.4	6.6	6.9	6.9
1968	3.1	3.6	4.1	4.1	4.3	4.3	4.8	5.1	5.3	5.9	7.3	8.6	8.6
1969	3.8	3.8	3.8	3.8	3.8	3.8	3.8	4.5	4.8	4.8	4.8	4.9	4.9
1972	2.1	2.7	2.8	2.8	2.8	2.8	4.8	5.0	5.9	7.0	7.0	7.0	7.0
1973	1.7	2.1	2.6	2.6	2.6	2.6	2.8	3.0	3.5	4.6	4.8	5.3	6.2
1974	1.4	1.8	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.0	3.1	3.7	3.7
1975	3.2	3.3	3.3	3.3	3.3	3.3	3.4	3.9	5.2	6.1	6.6	9.3	9.6
1976	2.2	3.6	3.6	3.6	4.0	4.0	4.1	7.0	7.0	7.0	7.0	7.0	7.0
1977	2.1	3.5	3.7	3.8	5.4	5.8	6.0	6.0	6.0	6.0	6.9	7.1	7.1
1978	1.9	2.3	2.3	2.6	2.6	2.7	3.7	3.8	4.0	4.2	4.6	5.1	5.1
1979	2.9	4.3	6.3	6.0	10.6	10.8	11.2	11.3	11.3	11.3	11.3	11.3	11.3
1980	2.6	3.2	3.9	3.9	3.9	5.4	6.2	7.9	8.1	8.3	8.3	8.3	8.3
1981	4.8	9.0	10.3	10.5	11.3	11.8	14.8	17.0	18.2	18.8	19.1	19.9	19.9
1982	0.9	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.4	5.5	5.9	5.9	5.9
1983	2.4	2.7	3.5	3.6	3.8	3.8	4.0	4.2	5.1	5.5	5.7	5.7	5.7
1984	1.5	2.3	3.4	3.9	4.8	4.9	5.0	5.3	6.4	7.0	7.6	8.8	8.8
1985	2.2	2.6	2.7	2.7	3.1	3.5	4.0	4.4	4.5	4.5	4.5	4.5	4.5
1986	1.9	2.3	2.5	2.5	2.5	2.5	2.7	3.0	4.6	4.8	4.8	4.8	4.8
1987	2.4	3.1	3.1	3.2	3.3	3.3	3.3	3.9	4.4	6.5	7.1	7.1	7.1
1988	2.6	3.4	3.5	3.8	4.8	4.8	7.5	7.7	7.7	7.9	9.3	12.0	12.2
1989	1.4	5.7	5.7	5.7	5.7	5.7	7.6	7.6	7.8	8.0	8.2	8.3	8.3
1990	1.9	3.3	3.3	3.3	3.3	3.3	3.3	4.0	4.2	5.4	6.6	6.8	6.8
Mean Annual	2.24	3.20	3.61	3.85	4.23	4.45	5.15	5.85	6.00	6.60	6.94	7.63	7.82
Maximum	4.6	9.0	10.3	10.5	11.3	11.8	14.8	17.0	16.2	18.8	19.1	19.9	19.9

(all volumes in inches)

Inglis

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1942	1.2	1.6	1.6	1.6	1.6	1.7	2.1	2.5	2.8	2.9	2.9	2.9	3.6
1943	1.3	1.6	1.8	2.0	2.4	2.7	2.8	3.5	3.7	3.8	3.8	3.8	4.1
1944	1.4	2.2	2.8	3.7	5.3	5.6	6.6	6.7	6.7	6.7	6.7	6.7	6.7
1945	1.3	1.6	2.1	2.7	2.8	3.0	4.0	5.4	6.6	7.9	8.3	9.0	9.6
1946	1.6	1.7	2.1	2.2	2.3	2.3	2.8	3.3	3.4	5.1	5.7	6.1	6.1
1947	3.7	4.3	4.5	4.5	5.3	5.6	6.8	7.3	7.3	7.7	7.9	8.5	8.5
1948	1.9	2.6	2.9	3.4	3.7	3.7	3.7	3.7	4.8	5.1	5.1	5.1	5.1
1949	1.9	3.2	4.3	4.6	6.2	6.4	7.4	9.7	10.5	11.4	11.8	11.8	11.8
1951	1.9	2.1	2.4	3.4	3.9	3.9	5.0	5.1	5.1	5.1	5.1	5.1	5.1
1952	1.6	1.8	2.0	2.0	2.0	2.2	2.8	3.5	3.5	3.5	3.5	3.5	3.5
1953	1.9	2.0	2.5	2.8	3.8	4.0	4.1	4.3	4.3	4.5	4.5	5.9	5.9
1954	1.8	2.2	2.8	3.2	3.7	3.9	4.6	5.6	5.8	6.4	6.9	7.7	7.7
1955	1.3	1.4	1.7	1.7	1.9	1.9	2.1	2.2	2.3	2.5	2.5	2.5	2.5
1956	2.3	3.5	4.4	4.5	4.5	4.5	4.5	4.5	4.7	4.7	4.7	4.7	4.7
1957	1.4	2.3	3.0	3.4	4.0	4.1	5.6	6.4	6.6	6.9	7.7	9.7	9.9
1958	1.7	2.1	2.6	2.9	3.1	3.1	3.1	3.2	3.4	3.6	3.9	4.9	4.9
1959	1.6	2.8	3.0	3.1	3.1	3.1	4.2	4.9	5.2	5.4	6.4	7.9	8.0
1960	1.6	2.3	3.9	4.0	4.4	4.5	5.5	6.2	6.4	10.1	10.2	12.9	12.9
1961	1.7	1.8	2.0	2.1	2.1	2.2	2.8	2.8	2.8	3.1	3.5	3.9	4.0
1962	2.0	2.1	2.3	2.4	2.4	2.4	2.5	2.7	3.2	4.3	4.8	6.7	8.3
1963	1.1	1.4	1.6	1.6	1.8	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
1964	2.2	3.5	5.2	5.9	6.8	7.1	10.8	11.4	13.8	15.7	15.7	15.7	15.7
1965	2.1	2.1	2.2	3.0	3.6	3.6	3.6	5.6	6.0	7.9	9.0	11.0	11.0
1966	1.5	1.9	2.8	2.9	3.5	3.7	4.0	4.4	4.8	4.8	5.0	5.0	5.0
1967	1.3	1.8	2.1	2.3	2.5	2.5	3.1	3.3	3.6	4.0	4.0	4.0	4.0
1968	1.7	2.7	2.9	3.2	3.6	3.6	3.7	3.7	3.8	4.1	4.1	4.1	4.1
1969	1.5	2.4	2.7	2.9	2.9	2.9	3.2	3.3	3.3	3.7	3.7	3.7	3.7
1970	2.1	3.4	3.5	3.9	5.3	5.9	7.3	7.4	7.4	7.4	7.4	7.8	7.8
1971	1.9	4.5	4.5	4.5	4.7	4.8	6.7	6.7	6.7	6.7	6.7	6.7	6.7
1972	1.1	1.9	2.8	3.6	4.4	4.5	5.5	5.6	5.8	5.8	5.8	5.8	5.8
1973	2.4	2.5	2.6	2.6	2.8	3.1	3.3	5.2	6.0	6.3	6.4	6.7	6.7
1974	1.6	2.5	2.8	3.0	3.1	3.1	3.6	4.8	5.3	5.5	5.6	5.7	5.7
1975	2.1	2.3	2.6	2.6	2.9	3.2	3.2	3.9	3.9	3.9	3.9	4.3	4.3
1976	3.1	4.5	5.1	5.8	6.0	6.0	6.3	7.3	7.4	8.0	8.9	8.9	8.9
1977	1.5	3.0	3.7	3.7	3.9	3.9	4.1	4.8	4.9	5.7	5.7	5.7	5.7
1978	1.2	2.1	2.7	3.1	3.7	3.9	4.0	4.0	4.0	4.0	4.0	4.0	4.0
1979	1.3	1.7	1.8	2.0	2.1	2.1	3.3	3.6	4.4	4.4	4.4	4.8	4.8
1980	2.2	2.3	2.9	3.9	4.0	4.0	4.1	4.1	4.1	4.3	4.3	4.7	5.1
1981	1.6	1.6	1.6	1.8	1.9	1.9	3.0	3.3	4.5	4.6	4.6	4.6	4.6
1982	3.4	4.3	4.8	5.1	5.5	5.9	7.0	7.0	7.0	7.0	7.0	7.0	7.0
1983	1.6	1.8	2.1	2.6	3.4	3.8	4.2	4.3	4.3	4.3	4.3	5.3	5.3
1984	2.2	2.3	2.5	2.6	3.7	4.1	4.6	4.6	4.6	4.6	4.6	4.6	4.6
1985	1.2	1.8	2.9	3.8	3.9	3.9	4.9	6.4	7.6	7.6	8.6	9.2	9.2
1986	1.6	2.2	2.5	2.8	3.1	3.1	3.1	4.0	4.0	4.3	5.1	5.1	5.1
1987	2.0	2.4	2.9	3.5	4.0	4.3	4.4	4.9	5.0	5.1	5.2	5.3	5.3
1988	1.8	2.2	3.0	3.5	4.5	4.5	7.1	9.7	10.9	13.1	15.1	15.1	15.1
1989	1.0	1.4	1.7	1.7	1.7	1.7	2.4	3.3	3.4	3.4	3.4	3.4	3.4
1990	3.4	4.9	5.3	5.5	5.5	5.5	5.7	6.7	6.9	6.9	6.9	6.9	6.9
Mean Annual	1.81	2.43	2.89	3.20	3.61	3.74	4.40	4.98	5.30	5.75	5.99	6.39	6.47
Maximum	3.7	4.9	5.3	5.9	6.8	7.1	10.8	11.4	13.8	15.7	15.7	15.7	15.7

(all volumes in inches)

Jacksonville

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1950	2.0	3.2	4.4	4.9	6.4	7.7	10.2	12.5	12.6	14.0	14.1	14.3	14.3
1951	1.5	2.4	3.4	3.4	4.0	4.0	4.3	4.4	4.6	6.5	7.5	7.6	7.6
1952	1.7	1.8	2.2	2.6	3.1	3.1	3.5	3.5	3.6	3.9	4.7	5.4	5.4
1953	3.3	3.5	3.6	3.6	3.8	3.8	3.8	4.6	4.7	5.9	7.1	7.1	8.5
1954	1.7	2.1	3.1	4.1	4.7	4.8	5.1	5.1	5.1	5.1	5.2	5.2	5.2
1955	1.8	2.6	2.7	2.7	2.7	2.7	2.7	3.1	3.2	3.6	3.6	3.6	3.6
1956	1.4	1.8	2.2	2.7	3.8	4.2	6.7	8.1	8.6	9.2	9.7	9.9	9.9
1957	1.6	1.8	1.9	2.7	2.8	2.8	4.0	4.4	4.6	4.7	4.9	4.9	4.9
1958	1.6	2.4	3.2	3.7	4.5	4.6	4.9	4.9	4.9	4.9	4.9	4.9	4.9
1959	1.2	1.5	1.9	2.4	3.1	3.5	5.1	6.3	6.7	6.8	6.8	6.8	6.8
1960	2.3	3.0	3.6	3.7	4.1	4.4	4.6	4.8	4.9	5.4	5.4	6.0	6.0
1961	1.3	1.4	1.9	2.1	2.3	2.3	2.5	2.6	4.2	5.0	5.0	5.0	5.0
1962	2.9	3.6	4.1	4.1	4.2	4.2	4.2	4.4	4.4	4.8	5.1	7.3	8.6
1963	1.8	1.9	2.3	2.3	2.5	2.9	3.4	3.6	4.1	4.2	5.2	5.6	5.6
1964	2.3	2.3	2.3	2.4	3.3	3.7	6.3	6.6	6.7	7.3	8.7	8.7	8.7
1965	2.1	2.2	3.1	4.0	5.0	5.1	5.3	5.6	5.8	6.4	6.6	7.4	8.0
1966	3.4	4.7	6.9	7.8	8.9	8.4	9.9	10.2	10.2	10.2	10.2	10.2	10.2
1967	2.5	2.9	2.9	3.0	3.3	3.3	3.7	3.7	3.7	3.8	3.8	3.8	4.1
1968	2.3	2.6	3.1	4.1	5.9	6.4	7.9	9.9	11.1	14.5	15.2	15.4	15.4
1969	2.9	3.1	3.2	3.3	4.1	4.4	5.4	5.6	5.6	5.7	5.9	7.8	8.2
1970	1.8	2.9	4.4	5.3	6.1	6.1	7.1	7.7	7.7	7.7	7.7	7.7	7.7
1971	2.0	2.0	2.2	2.2	2.7	3.1	3.7	3.7	3.7	3.7	4.2	4.2	4.2
1972	1.5	2.3	3.2	3.6	4.3	4.4	5.1	5.3	5.4	5.5	5.5	5.5	5.5
1973	2.6	3.5	4.3	5.1	5.9	6.5	8.2	8.3	8.3	8.3	8.3	8.3	8.3
1974	2.7	3.5	3.8	3.8	3.8	3.8	3.8	4.0	4.4	4.4	4.5	4.5	4.5
1975	5.3	5.3	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
1976	2.8	3.0	3.8	3.8	3.8	3.9	4.1	4.1	4.1	4.4	4.4	4.4	4.4
1977	1.2	1.9	2.0	2.1	2.2	2.2	3.0	3.5	3.5	3.8	4.0	4.5	4.7
1978	1.2	1.9	3.0	3.5	4.2	4.3	4.7	4.7	4.7	4.7	4.7	4.7	4.7
1979	1.9	2.3	2.9	3.2	3.2	3.3	3.8	4.4	4.7	5.0	5.4	6.4	6.4
1980	1.4	2.1	2.6	2.6	2.6	2.6	2.7	3.1	3.9	3.9	4.0	4.0	4.0
1981	1.4	2.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
1982	2.4	2.8	2.8	2.8	3.1	3.1	3.1	3.5	5.5	6.1	6.1	6.1	6.1
1983	1.3	1.7	2.1	2.2	2.2	2.2	3.8	4.0	4.0	4.9	4.9	4.9	4.9
1984	2.0	2.8	3.5	3.8	4.1	4.2	4.8	5.0	5.0	5.0	5.0	5.0	5.0
1985	2.3	2.8	4.5	5.3	6.1	6.2	7.3	9.1	10.3	10.6	11.7	12.3	12.3
1986	1.3	2.1	2.1	2.1	2.1	2.3	2.4	2.9	3.4	3.4	3.4	3.4	3.4
1987	1.5	1.7	1.8	1.8	1.8	1.9	2.7	2.7	3.0	3.6	4.4	5.4	5.4
1988	2.1	2.6	3.1	3.2	3.2	3.3	3.5	4.5	5.4	6.6	7.8	11.2	12.1
1989	1.7	2.1	2.4	2.6	3.1	3.7	4.9	6.3	7.2	7.5	7.9	10.4	10.8
1990	1.6	2.3	2.3	2.3	2.3	2.3	2.6	2.6	2.6	2.6	3.0	3.0	3.0
Mean Annual	2.04	2.55	3.10	3.40	3.85	4.03	4.71	5.16	5.48	5.90	6.22	6.61	6.75
Maximum	5.3	5.3	6.9	7.8	8.9	9.4	10.2	12.5	12.6	14.5	15.2	15.4	15.4

(all volumes in inches)

Key West

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1968	2.1	3.2	4.0	4.0	4.0	4.0	4.1	4.1	4.2	4.5	4.9	4.9	4.9
1969	1.7	2.4	3.5	4.0	5.4	5.6	7.7	7.8	7.8	7.8	7.8	7.8	7.8
1980	1.8	2.6	3.8	4.5	5.9	6.3	8.9	9.5	9.9	11.0	11.8	12.0	12.0
1981	2.4	3.3	3.3	3.4	3.4	3.4	4.0	4.0	4.5	4.6	4.6	4.6	4.6
1982	1.6	1.7	1.8	2.3	2.4	2.5	2.5	3.0	3.4	3.7	5.0	5.0	5.0
1983	1.5	2.4	2.8	3.7	4.5	4.7	6.7	8.1	9.1	9.2	10.3	10.3	10.3
1984	0.8	1.3	1.6	1.7	2.0	2.6	2.8	2.8	3.0	4.2	4.2	4.3	4.3
1985	1.7	2.3	2.3	2.3	3.2	3.4	3.6	3.7	3.8	4.3	4.4	4.4	4.4
1986	1.4	2.6	3.3	3.3	3.6	3.6	4.1	4.1	4.1	4.2	4.9	7.0	7.6
1987	1.4	1.8	1.9	1.9	2.3	2.3	3.1	3.1	3.1	4.9	5.3	6.4	6.7
1988	1.5	2.4	2.4	2.5	2.6	2.6	3.6	4.5	6.2	6.6	6.7	6.7	6.7
1989	2.2	3.3	4.0	4.2	4.3	4.4	4.6	4.8	7.2	8.8	9.0	10.1	10.1
1970	2.7	2.9	3.0	3.4	4.1	4.1	4.6	5.4	6.9	6.9	7.7	7.7	7.7
1971	3.6	4.8	5.1	5.3	5.6	5.8	8.5	8.5	8.5	8.5	8.5	8.5	8.5
1972	1.5	1.6	1.8	1.9	2.6	2.6	3.7	4.2	4.3	4.8	6.6	8.5	10.5
1973	1.3	1.6	1.8	2.1	2.4	2.5	2.5	2.6	2.7	2.7	2.7	3.1	3.1
1974	0.9	1.4	1.5	1.6	1.6	1.6	1.6	1.7	1.7	1.7	1.8	1.8	1.8
1975	1.7	2.6	2.7	2.7	2.7	3.9	3.9	4.1	4.1	4.1	4.2	4.3	4.3
1976	2.8	3.4	3.6	3.6	3.6	3.6	3.6	4.1	4.5	4.7	4.9	4.9	4.9
1977	2.2	3.2	4.2	5.0	5.0	5.2	5.4	6.0	6.0	6.0	6.9	8.8	9.0
1978	1.9	3.5	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
1979	1.6	1.7	1.8	2.3	2.5	2.6	2.7	2.9	2.9	2.9	2.9	2.9	2.9
1980	4.5	8.3	12.1	14.9	20.6	21.9	23.3	24.4	24.4	24.6	25.0	25.0	25.0
1981	1.3	1.6	1.9	2.1	2.1	2.3	3.4	3.8	4.1	4.3	4.8	5.1	5.1
1982	2.2	2.4	2.8	2.8	3.7	4.1	6.2	6.3	6.3	6.5	6.5	6.7	6.7
1983	1.8	2.3	3.2	4.2	6.4	8.2	10.3	11.5	12.0	13.5	16.2	16.2	16.2
1984	1.5	2.6	3.0	3.0	3.0	3.0	3.5	4.9	5.3	5.6	5.9	5.9	5.9
1985	2.8	3.4	3.9	4.2	4.6	5.4	6.6	7.2	7.2	7.2	7.2	7.2	7.2
1986	1.9	3.4	5.4	6.5	6.6	6.8	7.0	7.0	7.0	7.0	7.0	7.0	7.0
1987	2.0	3.1	4.1	4.8	5.1	5.1	5.3	5.5	5.5	5.5	5.5	6.9	7.5
1988	2.5	2.5	2.5	2.5	2.5	2.5	3.1	3.1	3.1	3.1	3.1	3.1	3.1
1989	1.1	1.5	1.9	3.1	3.7	3.8	5.6	5.8	5.9	6.3	6.3	6.3	6.3
1990	1.8	2.8	3.5	3.5	3.5	4.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Mean Annual	1.93	2.72	3.32	3.71	4.26	4.53	5.32	5.69	6.00	6.33	6.72	7.05	7.16
Maximum	4.5	8.3	12.1	14.9	20.6	21.9	23.3	24.4	24.4	24.6	25.0	25.0	25.0

(all volumes in inches)

Lakeland

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1943	2.1	2.5	2.8	2.8	2.9	3.0	3.2	3.5	4.5	5.1	5.6	5.7	5.7
1944	2.3	2.4	2.4	2.9	3.9	4.2	5.0	5.1	5.1	5.1	5.1	5.1	5.1
1945	1.6	3.1	5.0	6.0	7.7	8.3	10.1	10.5	10.8	10.9	10.9	11.1	11.1
1946	1.8	2.6	2.8	2.8	2.8	2.8	3.9	3.9	4.6	4.8	5.5	6.7	6.7
1947	1.4	2.0	2.1	2.5	3.0	3.4	5.0	5.0	5.2	5.3	6.4	6.5	6.6
1948	3.0	3.6	3.9	3.9	3.9	3.9	4.8	5.0	5.0	6.2	6.5	6.7	6.7
1949	2.0	3.0	4.1	4.3	4.9	5.0	6.2	6.4	6.4	6.4	6.4	6.4	6.4
1950	1.8	2.5	2.6	2.6	2.6	2.6	3.5	5.8	6.2	7.3	7.5	7.9	8.0
1951	2.0	2.1	2.1	2.6	2.8	2.9	3.3	3.5	3.5	3.5	3.5	4.2	4.7
1952	2.3	2.4	2.7	2.7	2.7	2.7	3.5	4.3	4.4	4.4	5.2	5.2	5.2
1953	1.3	1.6	2.0	3.0	3.6	3.7	3.7	4.1	4.2	6.1	7.2	7.2	7.2
1954	1.9	2.0	2.1	2.2	2.2	2.2	2.7	2.8	2.8	3.1	3.2	3.2	3.2
1955	1.9	2.0	2.0	2.0	2.0	2.0	2.3	2.3	2.9	3.9	3.9	3.9	3.9
1956	1.7	2.3	2.3	2.3	2.3	2.3	3.7	3.8	3.8	3.8	3.8	5.4	6.3
1957	2.4	2.8	2.9	2.9	2.9	2.9	2.9	5.4	5.4	5.4	5.4	5.4	5.4
1958	0.9	1.0	1.4	1.7	1.9	2.0	2.2	2.3	2.4	2.9	3.2	3.4	3.4
1959	1.4	2.1	2.4	2.5	3.0	3.2	3.4	3.7	3.8	5.1	6.8	7.9	7.9
1960	2.6	3.1	3.9	4.3	4.9	5.3	7.0	9.6	10.0	11.2	11.3	11.3	11.3
1961	1.2	1.9	2.6	2.7	2.9	3.0	3.3	3.3	3.3	3.5	3.5	3.5	3.5
1962	1.6	2.4	2.8	2.8	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.2	3.2
1963	1.7	2.0	2.4	2.6	3.7	3.8	4.0	4.0	4.0	4.6	4.6	4.6	4.6
1964	3.3	3.6	3.6	3.6	3.6	3.6	3.8	3.9	3.9	3.9	3.9	4.5	4.7
1965	1.6	2.1	2.3	2.4	2.4	2.4	2.9	3.7	3.7	4.9	5.6	6.3	6.4
1966	2.2	2.3	2.6	2.6	2.6	2.6	2.6	2.7	2.7	2.8	2.8	3.5	3.5
1967	2.1	2.3	2.3	2.3	2.3	2.3	2.9	3.1	3.6	3.9	4.0	4.0	4.0
1968	2.2	2.9	4.2	4.2	4.2	4.2	4.8	6.8	6.9	6.9	6.9	7.2	7.2
1969	2.0	2.1	2.1	2.3	2.6	2.6	2.8	3.0	3.0	3.7	4.2	4.7	4.7
1970	1.9	2.8	2.8	2.8	2.8	2.8	2.8	4.4	4.4	4.6	4.6	4.9	4.9
1971	1.6	1.9	2.8	3.0	3.2	3.3	3.9	3.9	3.9	3.9	3.9	3.9	3.9
1972	1.5	1.8	2.2	2.9	3.4	3.5	4.5	5.0	5.0	5.0	5.0	5.0	5.0
1973	1.4	1.9	2.0	2.3	2.6	2.6	2.6	2.8	3.2	3.3	3.3	4.4	4.4
1974	2.1	2.4	2.4	2.4	2.4	2.4	3.7	4.8	5.4	6.3	7.4	9.6	11.3
1975	2.5	3.6	3.6	3.6	3.6	3.6	3.6	4.5	4.5	4.5	4.5	4.5	4.5
1976	2.4	3.9	3.9	3.9	3.9	3.9	3.9	4.2	4.2	4.3	4.5	4.8	4.8
1977	2.9	3.1	3.3	3.3	3.3	3.3	4.3	4.3	5.0	5.0	5.0	5.1	5.1
1978	2.3	2.9	2.9	2.9	2.9	2.9	3.0	3.0	3.0	3.0	3.0	4.0	4.0
1979	1.4	2.3	3.0	3.5	3.7	3.8	4.0	4.6	5.3	6.2	6.2	7.5	7.8
1980	1.4	1.9	1.9	1.9	2.0	2.0	2.9	2.9	2.9	3.3	3.4	3.4	3.4
1981	1.1	1.5	2.6	2.8	3.2	3.3	3.6	3.6	3.6	3.6	3.6	3.7	3.7
1982	2.3	2.5	2.9	3.4	3.8	4.0	5.1	5.1	5.2	5.7	5.7	5.7	5.7
1983	1.7	3.0	3.3	3.3	3.3	3.3	3.6	4.0	4.0	4.7	4.8	4.9	4.9
1984	2.7	2.9	3.0	3.0	3.0	3.0	3.1	3.1	3.2	3.5	3.5	4.0	4.0
1985	1.8	1.6	2.1	2.4	2.4	2.4	2.4	3.1	3.1	3.4	3.5	3.5	3.5
1986	2.2	2.0	2.2	2.3	2.3	2.3	3.1	3.4	3.6	3.6	4.0	5.7	5.7
1987	1.6	3.0	3.0	3.0	3.0	3.0	3.0	4.8	5.7	5.7	6.8	7.2	6.3
1988	3.5	4.0	4.2	4.2	4.9	5.1	5.4	5.4	6.4	6.6	6.8	7.2	8.9
1989	2.0	2.8	5.4	6.1	6.1	6.1	6.1	6.7	7.5	8.4	8.9	8.9	8.9
1990	2.0	2.9	2.9	2.9	2.9	2.9	2.9	3.5	4.0	4.0	4.0	4.0	4.0

Mean Annual
Maximum

(all volumes in inches)

Lamont

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1942	1.6	1.0	1.5	1.9	2.3	2.3	3.6	4.6	4.7	4.7	4.7	4.7	4.7
1943	1.8	1.9	2.0	2.0	2.0	2.0	2.0	2.2	2.2	2.2	2.8	2.8	2.8
1944	1.5	2.3	2.4	2.7	2.7	2.7	2.7	3.0	3.2	3.2	3.2	3.5	3.5
1945	1.8	2.1	2.5	2.5	2.6	2.6	2.6	2.6	2.8	3.4	4.0	5.7	5.8
1946	1.7	3.7	4.8	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
1947	1.2	1.7	2.2	2.5	2.7	2.7	3.1	3.2	3.3	4.3	4.3	4.3	4.3
1948	1.7	2.1	2.7	2.8	2.8	2.8	4.2	4.2	5.2	5.2	5.2	6.1	6.5
1949	1.5	1.7	2.1	2.4	2.7	2.7	2.7	2.7	2.7	3.6	3.7	5.0	7.1
1950	1.3	1.7	2.4	2.5	2.5	2.5	2.5	2.8	3.9	3.9	3.9	3.9	3.9
1951	1.6	2.2	3.6	3.7	3.7	3.7	4.4	4.7	4.7	4.7	4.7	4.7	4.7
1952	2.3	2.4	2.5	2.5	2.5	2.5	2.5	2.7	3.1	3.4	4.0	4.2	5.2
1953	1.7	2.3	3.4	3.8	4.8	4.9	5.3	5.9	6.4	7.6	8.4	10.3	10.8
1954	2.2	2.5	2.5	2.5	2.5	2.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6
1955	1.5	1.6	1.7	1.9	2.0	2.0	2.8	2.8	2.9	2.9	2.9	3.5	3.5
1956	2.2	2.7	4.6	5.2	5.8	6.0	6.3	6.4	6.4	6.4	6.4	6.4	6.4
1957	1.6	2.7	3.9	5.7	8.2	9.1	9.7	10.5	10.7	10.9	11.3	11.3	11.3
1958	2.4	3.8	4.4	4.4	4.5	4.6	5.5	8.3	8.5	8.6	8.7	10.2	10.5
1959	1.4	2.8	3.1	4.0	5.6	5.6	6.8	6.8	6.8	6.8	6.8	6.8	6.8
1960	1.6	2.5	4.3	5.0	5.6	6.0	8.7	9.0	9.0	9.3	9.3	9.3	9.3
1961	1.9	1.9	2.0	2.1	2.3	2.5	3.5	3.7	3.7	3.7	3.7	4.2	4.2
1962	1.4	2.2	2.4	2.4	2.4	2.4	3.4	3.4	3.5	3.8	3.8	3.8	3.8
1963	1.1	2.7	2.7	2.7	3.4	3.4	4.9	5.2	5.3	5.3	5.3	5.3	5.3
1964	2.6	4.9	6.3	6.9	7.1	7.3	9.6	10.4	10.7	10.7	10.7	10.7	10.7
1965	1.5	2.2	3.9	4.3	5.1	5.6	6.0	6.0	6.0	6.2	6.2	6.4	6.8
1966	2.4	2.5	2.9	3.1	3.7	3.8	4.7	5.1	5.1	5.1	5.1	5.1	5.1
1967	1.3	2.9	2.9	2.9	2.9	2.9	2.9	3.1	3.2	3.7	3.7	3.7	3.7
1968	1.4	1.5	1.5	1.5	1.6	1.9	3.0	3.0	3.0	3.4	3.4	3.4	3.4
1969	1.1	2.2	2.2	2.2	2.5	2.9	3.6	4.3	4.9	5.1	5.1	5.1	5.1
1970	1.7	2.8	2.8	2.8	2.8	3.0	3.2	3.2	3.9	4.4	4.5	5.1	5.1
1971	2.9	3.3	4.4	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Mean Annual	1.73	2.43	3.02	3.29	3.64	3.76	4.42	4.74	4.83	5.16	5.27	5.80	5.76
Maximum	2.9	4.9	6.3	6.9	8.2	9.1	9.7	10.5	10.7	10.9	11.3	11.3	11.3

(all volumes in inches)

Lynne

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1942	2.0	3.0	3.0	3.0	3.0	3.0	3.1	3.1	3.1	3.1	4.6	5.7	5.7
1943	2.0	2.3	2.5	2.6	3.1	3.1	3.4	3.4	4.0	4.1	4.2	4.3	4.6
1944	2.0	3.3	4.8	5.5	7.5	8.0	9.9	10.1	10.1	10.1	10.1	10.1	10.1
1945	1.6	2.5	3.0	3.7	4.7	5.3	5.9	6.1	6.2	6.2	6.2	6.2	6.2
1946	1.4	1.8	2.0	2.0	2.0	2.0	2.3	2.3	2.7	3.0	3.0	3.0	3.0
1947	1.4	2.0	3.3	3.8	3.9	3.9	3.9	4.3	4.5	4.5	4.5	4.5	4.5
1948	1.7	2.0	2.1	2.1	2.1	2.1	2.1	2.1	4.1	5.1	5.1	5.2	5.2
1949	1.8	1.9	2.0	2.5	3.0	3.2	3.4	3.5	3.5	3.5	3.5	3.7	3.7
1950	2.3	2.9	3.1	3.2	3.2	3.2	4.4	6.1	6.9	8.2	9.0	9.1	9.1
1951	1.4	2.1	2.8	2.8	2.8	2.8	3.7	3.8	3.8	3.8	3.8	4.6	4.6
1952	1.8	2.0	2.0	2.1	2.4	2.7	3.5	4.5	4.5	4.5	4.5	4.5	4.5
1953	2.0	2.2	2.2	2.4	3.3	3.3	3.7	3.7	3.7	3.9	3.9	4.4	4.4
1954	1.9	1.7	2.3	2.9	3.4	3.4	3.6	3.6	3.6	3.6	3.6	3.6	3.6
1955	1.6	1.7	2.3	2.4	2.4	2.4	2.4	2.4	2.5	3.5	3.5	3.5	3.5
1956	2.3	2.4	2.5	2.5	3.0	3.5	4.7	5.8	5.8	5.8	5.8	6.0	6.0
1957	2.1	2.8	2.8	3.6	3.7	3.7	4.0	4.0	4.0	4.5	4.6	4.6	4.6
1958	1.4	1.7	2.1	2.9	3.4	3.7	4.1	4.1	4.1	4.1	4.1	4.1	4.1
1959	1.7	2.1	2.6	3.1	3.3	3.3	3.3	4.3	5.5	5.9	5.9	8.5	8.5
1960	1.6	1.8	1.9	2.0	2.0	2.0	2.0	2.7	2.8	2.9	3.3	4.2	4.2
1961	1.3	1.8	1.9	2.0	2.0	2.0	2.0	2.2	2.8	2.9	3.3	4.2	4.2
1962	3.1	3.1	3.2	3.2	3.2	3.2	3.2	3.2	3.4	3.5	3.6	3.9	3.9
1963	1.9	2.1	2.7	2.9	3.3	3.5	3.9	4.2	4.6	4.7	4.7	4.8	4.8
1964	3.0	3.1	3.6	3.8	3.8	3.8	3.8	3.9	4.9	5.7	5.9	6.0	6.0
1965	1.9	3.1	3.1	3.1	3.1	3.1	3.3	4.2	4.9	5.0	6.0	6.7	9.3
1966	0.6	1.5	1.5	2.2	2.4	2.4	2.5	2.5	2.8	3.2	3.4	3.9	4.0
1967	1.9	2.2	2.2	2.2	2.2	2.2	2.6	3.1	4.2	4.6	4.9	5.1	5.1
1968	1.9	3.1	3.7	4.0	4.1	4.1	4.1	5.4	5.7	6.6	8.7	8.9	8.9
1969	1.9	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.3	4.3
1970	2.0	2.4	3.0	3.0	3.0	3.0	4.1	4.2	4.2	4.2	4.2	4.8	5.4
1971	1.5	1.6	2.3	2.7	3.5	3.6	5.4	5.4	5.4	5.4	5.4	6.3	6.4
1972	1.7	2.1	2.4	3.1	4.3	4.6	5.7	6.1	6.6	6.7	6.7	6.7	6.7
1973	1.2	1.4	1.7	1.7	1.7	1.7	2.4	2.4	2.4	2.7	2.7	2.7	2.7
1974	1.7	2.1	2.3	2.9	3.7	4.5	5.7	5.7	5.9	9.1	9.1	9.1	9.1
1975	3.0	3.1	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.5	5.0	5.0	5.0
1976	1.2	1.8	2.3	3.1	3.7	3.8	5.7	5.7	5.7	5.9	5.9	5.9	5.9
1977	2.0	2.0	2.0	2.0	2.0	2.0	2.9	3.1	3.1	3.1	3.1	3.4	3.4
1978	2.9	3.2	3.5	3.6	3.8	3.8	4.1	4.6	4.7	5.5	5.6	5.6	5.6
1979	2.0	3.8	4.5	5.2	5.8	6.0	7.4	7.4	8.2	9.3	9.9	9.9	9.9
1980	1.7	2.6	2.6	2.6	2.9	3.4	3.4	3.5	3.5	3.5	3.5	3.5	3.5
1981	1.6	1.7	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
1982	2.6	3.8	6.4	9.7	12.3	12.3	12.4	12.4	12.6	15.6	15.6	15.6	15.6
1983	1.5	3.0	3.2	3.2	3.2	3.2	3.2	4.7	4.7	5.5	5.5	5.5	5.5
1984	1.4	1.7	2.1	2.9	3.0	3.4	5.0	5.5	5.5	5.6	5.6	5.6	5.6
1985	1.8	2.6	2.7	2.7	2.7	2.7	2.7	2.7	2.8	2.9	4.7	5.4	5.4
1986	1.4	1.8	1.8	1.8	2.7	3.0	4.4	4.4	4.5	4.5	4.5	4.5	4.5
1987	0.9	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
1988	2.8	2.9	3.0	3.0	3.0	3.0	4.8	4.8	4.8	6.9	7.6	8.1	8.1
1989	1.0	1.5	1.8	1.9	1.9	1.9	2.1	2.8	2.8	2.9	3.2	3.7	3.7
1990	1.7	2.0	2.0	2.0	2.1	2.1	3.7	3.7	3.7	3.8	4.0	4.0	4.0
Mean Annual	1.82	2.42	2.77	3.07	3.40	3.51	4.11	4.45	4.66	5.11	5.36	5.61	5.69
Maximum	3.1	4.2	6.4	9.7	12.3	12.3	12.4	12.4	12.6	15.6	15.6	15.6	15.6

(all volumes in inches)

Marineland

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	188 hr	240 hr
1942	1.9	3.5	3.5	3.5	3.5	3.5	3.5	3.8	4.1	4.5	4.5	4.5	4.5
1943	1.9	2.8	4.7	5.1	5.8	6.4	8.4	9.9	10.0	10.9	12.3	12.5	12.5
1944	1.7	3.1	3.1	4.4	5.8	6.0	7.3	7.3	7.3	7.6	7.7	7.7	7.7
1945	1.1	1.3	1.7	2.7	3.8	4.2	4.9	5.0	5.3	5.5	5.5	5.5	5.5
1946	1.5	1.7	2.1	2.4	2.7	3.0	3.2	3.2	3.2	3.4	3.4	3.4	3.4
1947	1.7	1.9	2.5	2.8	3.1	3.1	3.5	4.0	4.3	5.1	5.1	5.6	5.6
1948	1.7	2.3	2.6	2.8	2.8	2.8	3.0	3.8	3.8	4.7	6.0	8.3	12.3
1949	1.6	1.7	2.1	2.6	3.0	3.1	3.9	4.3	4.4	4.4	4.5	4.6	4.6
1950	2.2	3.7	4.8	5.5	6.0	6.0	6.3	7.7	8.6	8.9	8.9	8.9	8.9
1951	2.4	3.3	3.8	4.5	6.7	7.3	7.8	10.2	11.3	11.8	12.1	12.1	12.1
1952	1.9	1.9	1.9	1.9	1.9	1.9	2.7	3.5	3.5	3.5	4.0	4.3	4.3
1953	2.1	3.1	3.9	4.1	4.3	4.3	4.8	6.1	8.1	9.5	9.6	14.9	15.2
1954	1.8	3.1	3.3	3.3	3.3	3.3	3.9	3.9	3.9	3.9	3.9	3.9	3.9
1955	1.7	1.8	1.8	2.2	2.4	2.4	2.9	2.9	2.9	2.9	2.9	2.9	2.9
1956	1.8	1.9	2.2	2.3	2.3	2.3	2.9	3.5	3.6	3.7	3.9	4.9	4.9
1957	1.6	2.2	3.0	3.4	4.3	5.0	7.0	7.4	7.6	8.8	8.8	8.9	8.9
1958	1.0	1.7	2.1	2.7	3.1	3.1	3.2	3.9	4.0	4.0	4.0	4.0	4.0
1959	1.3	1.6	2.1	2.2	2.3	2.3	2.3	2.3	2.6	4.2	4.2	4.2	4.2
1960	1.5	2.2	2.4	2.8	3.0	3.0	4.4	6.2	6.4	7.5	7.6	7.9	7.9
1961	0.9	1.6	2.3	2.4	2.4	2.4	2.4	2.4	2.9	3.1	3.5	3.5	3.5
1962	1.6	2.0	2.3	2.4	2.4	2.4	2.5	2.6	3.3	3.5	3.8	3.9	3.9
1963	2.2	3.1	4.9	5.4	5.6	5.6	6.1	6.3	7.0	7.5	8.1	8.4	8.4
1964	1.4	2.3	3.2	4.2	4.9	4.9	5.6	5.8	5.8	5.8	5.8	5.8	5.8
1965	1.5	1.7	1.8	1.8	1.9	1.9	2.1	2.4	2.8	3.5	3.6	4.0	4.0
1966	1.1	1.5	1.5	1.6	2.6	2.8	4.0	4.1	4.1	4.1	4.1	4.1	4.1
1967	1.5	1.8	2.2	2.2	2.2	2.2	2.2	3.5	3.5	3.5	3.5	3.9	3.9
1968	1.7	2.5	3.3	3.5	3.9	4.6	7.7	8.3	9.6	10.1	11.2	11.2	11.2
1969	1.6	2.2	3.6	3.6	3.6	3.7	4.3	4.9	5.2	5.5	7.3	8.4	8.4
1970	1.7	1.7	1.7	1.7	2.2	2.6	3.1	3.1	3.1	3.1	3.1	3.1	3.1
1971	1.2	1.6	2.0	2.3	2.8	2.9	4.6	4.6	4.6	4.6	4.6	4.6	4.6
1972	1.7	1.7	2.2	2.7	3.5	3.8	4.4	4.5	4.9	5.0	5.0	5.0	5.0
1973	1.9	2.6	2.6	2.6	2.6	2.6	2.6	3.3	3.4	3.4	3.4	4.9	5.0
1974	1.3	1.4	1.6	2.1	2.8	2.9	2.9	3.2	3.2	4.0	4.0	4.0	4.0
1975	2.3	3.3	3.5	3.5	3.5	3.5	4.0	4.0	4.0	4.0	4.0	4.0	4.0
1976	1.8	2.1	2.1	2.1	2.1	2.1	3.0	4.2	4.2	6.1	6.4	6.4	6.4
1977	1.1	1.4	1.8	2.0	2.0	2.0	2.1	2.1	2.6	2.7	2.7	2.7	2.7
1978	1.6	2.9	2.9	2.9	2.9	2.9	3.0	3.0	4.0	4.0	4.6	5.5	5.5
1979	1.4	2.1	2.4	2.7	3.2	3.3	4.0	4.2	4.6	5.7	6.9	6.9	6.9
1980	1.1	1.1	1.8	2.2	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.5	3.5
1981	1.6	2.1	2.1	2.1	2.1	2.1	2.3	2.5	2.5	2.8	2.8	2.8	2.8
1982	1.9	2.9	3.2	4.2	5.8	6.0	7.0	7.0	7.0	7.2	7.2	7.2	7.2
1983	2.3	3.1	3.5	3.6	3.6	3.6	5.5	5.6	5.6	5.6	5.6	5.6	5.6
1984	2.1	2.7	3.4	3.5	3.6	3.6	3.6	4.3	4.4	4.7	5.1	5.1	5.1
1985	2.2	2.9	3.8	4.0	4.6	4.6	5.2	5.3	5.3	5.3	5.3	5.9	5.9
1986	1.7	3.1	3.1	3.1	3.1	3.1	3.2	4.3	4.4	4.6	4.7	4.7	4.7
1987	1.5	2.8	3.1	3.5	4.3	4.3	4.8	4.8	5.0	6.1	6.8	7.0	7.0
1988	1.6	2.3	2.3	2.3	2.8	3.4	4.2	4.7	4.9	5.9	6.5	6.5	6.5
1989	2.5	4.8	6.1	6.2	6.3	6.3	6.3	6.3	6.4	6.4	6.4	6.4	6.4
1990	1.6	2.2	2.2	2.2	2.3	2.4	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Mean Annual	1.67	2.33	2.78	3.06	3.44	3.56	4.17	4.61	4.87	5.26	5.52	5.85	5.94
Maximum	2.5	4.8	6.1	6.2	6.7	7.3	8.4	10.2	11.3	11.8	12.3	14.9	15.2

(all volumes in inches)

Melbourne

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	192 hr	240 hr
1942	1.3	2.0	2.0	2.0	2.0	2.0	2.6	2.6	2.9	3.2	3.2	5.0	5.2
1943	0.9	1.5	1.7	1.7	1.7	1.7	1.9	2.8	2.8	2.9	3.4	3.9	3.9
1944	1.6	2.0	2.1	2.2	2.2	2.2	2.3	2.8	2.9	2.9	3.7	5.0	5.0
1945	1.5	2.2	3.0	3.4	4.4	6.1	8.6	8.8	8.8	8.8	8.8	8.8	8.8
1946	1.4	1.6	1.6	1.6	1.9	1.9	2.8	2.8	3.3	3.7	3.7	5.4	5.4
1947	2.0	2.5	2.7	2.8	3.5	3.6	3.9	4.1	4.1	4.5	5.0	5.9	8.2
1948	2.2	2.2	3.3	4.7	5.5	6.0	7.4	8.1	8.3	8.7	8.8	8.8	8.8
1949	1.3	1.9	2.3	2.8	3.9	4.4	7.2	7.4	7.4	7.4	7.4	7.4	7.4
1950	1.8	1.9	2.3	3.0	3.5	3.7	4.8	6.6	8.4	9.9	10.0	10.0	10.0
1951	1.6	1.7	2.0	2.2	2.5	2.6	3.3	3.8	4.1	4.3	6.0	6.1	6.1
1952	1.7	1.9	2.2	2.2	2.6	2.8	3.4	4.9	5.7	6.1	6.8	7.8	9.3
1953	2.6	2.6	2.9	2.9	3.2	3.6	3.9	3.9	4.2	4.2	5.0	6.6	7.6
1954	1.3	1.8	1.8	2.1	2.5	2.8	3.7	4.2	4.2	4.4	4.4	5.4	5.4
1955	1.1	2.1	2.6	2.6	2.7	2.7	3.2	3.5	4.0	4.0	4.0	4.0	4.0
1956	1.5	1.9	2.6	2.8	2.8	2.8	2.8	4.1	4.2	5.0	5.2	5.2	5.2
1957	2.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.4	3.8
1958	2.0	2.2	2.7	3.0	3.1	3.2	3.4	3.4	3.8	3.8	3.8	3.8	3.8
1959	1.0	1.6	1.8	1.8	2.6	2.7	3.6	4.1	5.0	6.4	6.4	6.4	6.4
1960	1.7	2.7	2.8	2.8	3.1	3.1	3.2	4.1	5.2	7.3	7.8	7.8	9.8
1961	1.7	1.9	2.6	2.8	3.0	3.0	4.2	4.8	4.8	4.8	4.8	4.8	4.8
1962	2.3	2.8	3.1	3.4	4.0	4.0	4.2	4.8	4.9	4.9	5.8	6.6	6.6
1963	1.5	2.7	3.6	4.2	5.3	5.4	5.5	5.9	5.9	6.5	7.8	10.3	11.9
1964	1.8	2.0	2.5	2.8	4.6	5.0	5.4	5.5	5.8	6.0	6.8	6.8	8.8
1965	1.4	1.5	1.5	1.6	1.6	1.6	2.7	2.7	2.7	2.7	2.7	2.7	2.7
1966	1.4	2.1	3.1	3.1	3.6	3.8	4.4	4.7	5.5	5.5	5.5	5.5	5.5
1967	1.3	1.7	2.8	3.1	3.1	3.1	3.8	4.4	4.4	4.6	6.2	8.7	8.7
1968	2.2	2.3	2.7	3.5	4.6	4.6	7.2	7.4	7.9	8.3	8.5	8.5	8.5
1969	3.4	4.3	5.1	5.1	5.1	5.1	5.2	5.2	5.2	5.2	5.2	5.2	5.2
1970	1.6	3.1	4.5	4.7	4.7	4.7	6.0	6.2	6.2	6.2	6.2	6.2	6.2
1971	0.9	0.9	1.2	1.6	1.7	1.7	2.1	2.1	2.1	2.1	2.1	2.1	2.1
1972	2.2	3.0	3.5	3.6	4.1	4.3	5.2	5.7	5.7	5.7	5.7	5.7	5.7
1973	1.7	3.0	3.7	4.1	4.3	4.3	4.3	4.3	4.5	4.5	4.5	4.5	4.5
1974	2.1	2.1	2.2	2.2	2.4	2.4	2.6	2.6	3.2	3.6	3.9	4.0	4.0
1975	3.0	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.8	3.8	3.8	3.8	3.8
1976	2.5	3.8	4.4	4.6	4.7	5.0	5.3	7.9	8.5	8.8	8.8	8.8	8.8
1977	1.5	2.6	4.3	5.1	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
1978	2.4	3.6	3.6	3.6	3.6	3.6	3.7	5.0	5.0	5.0	5.0	6.1	6.1
1979	1.8	2.0	2.3	3.2	3.7	4.2	7.0	7.0	7.0	7.6	8.2	8.2	8.2
1980	1.0	1.1	1.1	1.2	1.7	1.7	1.8	2.7	2.7	2.7	2.7	2.7	2.7
1981	1.5	1.5	1.5	2.0	2.0	2.0	3.0	3.4	3.6	3.6	3.7	3.9	3.9
1982	1.5	1.8	2.0	2.1	2.1	2.1	2.4	2.7	2.9	2.9	3.0	3.0	3.0
1983	1.9	1.9	2.6	3.1	3.5	3.6	3.6	3.7	3.7	3.7	3.7	3.7	3.7
1984	1.7	2.7	3.3	4.1	4.9	5.0	5.0	7.1	7.9	8.3	8.5	8.5	8.5
1985	2.7	4.0	4.3	4.3	4.3	4.3	4.8	5.1	5.2	6.8	6.9	7.0	7.0
1986	1.4	1.5	2.1	2.3	2.5	2.5	4.1	4.2	4.2	4.2	4.7	5.8	5.8
1987	1.8	2.8	2.9	2.9	3.1	3.1	3.5	3.7	3.9	4.2	4.2	4.2	4.2
1988	1.4	2.2	2.6	2.7	2.7	2.7	2.8	2.8	2.9	3.4	3.4	3.4	3.4
1989	1.8	2.1	2.6	3.2	3.6	4.0	4.3	4.4	4.8	4.8	5.5	5.7	5.7
1990	2.7	2.7	3.1	3.2	3.2	3.2	3.5	4.3	4.6	4.7	4.7	4.7	4.7
Mean Annual	1.77	2.28	2.72	2.98	3.32	3.46	4.07	4.53	4.80	5.10	5.34	5.77	5.97
Maximum	3.4	4.3	5.1	5.1	5.5	6.1	8.6	8.6	8.6	9.9	10.0	10.3	11.9

(all volumes in inches)

Miami

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1950	1.2	1.6	2.0	2.1	2.5	3.3	4.3	4.4	5.3	5.3	7.3	7.4	7.4
1951	2.6	2.7	2.8	2.8	2.8	2.8	3.5	4.2	4.5	5.2	5.7	5.9	5.9
1952	2.4	3.1	3.8	5.0	7.0	7.8	8.3	8.3	8.3	8.4	9.4	9.9	10.2
1953	2.2	2.5	2.7	2.9	3.0	3.0	3.0	3.2	3.6	4.7	5.0	7.7	9.0
1954	2.3	3.1	4.0	4.0	4.1	4.1	4.6	5.4	6.5	6.5	6.7	7.9	9.6
1955	1.7	1.8	2.4	3.0	3.3	3.3	3.8	4.8	4.9	4.9	4.9	4.9	4.9
1956	1.7	2.1	2.3	2.4	3.4	3.4	3.4	3.6	3.8	4.4	4.7	5.6	5.9
1957	3.0	4.2	5.3	6.0	6.9	6.9	7.0	7.1	7.1	8.4	8.4	8.4	8.4
1958	2.3	2.9	3.1	3.8	5.4	5.9	8.4	10.2	10.2	10.8	10.8	10.8	10.8
1959	3.3	4.7	5.5	5.8	5.9	6.2	7.9	8.5	8.8	11.4	12.0	12.4	12.4
1960	2.3	2.9	3.1	4.1	5.4	5.8	7.6	8.4	8.6	8.6	11.9	13.4	14.1
1961	1.9	2.2	2.4	2.5	2.8	2.8	4.1	4.5	4.8	4.9	5.1	5.2	5.2
1962	2.0	2.6	3.2	3.3	3.3	3.6	3.6	3.6	3.8	4.4	5.4	8.0	8.9
1963	1.5	1.7	2.2	2.4	3.3	3.6	4.1	4.8	5.3	5.4	6.4	9.3	9.6
1964	3.7	4.9	6.0	6.5	6.8	6.8	6.9	6.9	6.9	6.9	6.9	8.3	9.3
1965	2.2	2.7	3.1	3.5	4.4	5.0	5.7	8.0	8.3	8.3	8.3	8.3	8.3
1966	2.0	2.3	2.9	3.6	5.3	5.5	7.3	7.4	7.4	7.7	8.0	10.2	10.7
1967	2.3	3.3	4.2	4.3	4.6	4.7	4.7	7.5	7.8	8.5	8.9	9.7	9.7
1968	2.6	4.4	4.4	4.4	4.5	4.6	5.4	5.5	5.6	5.8	6.0	8.8	10.4
1969	1.6	2.4	2.7	2.7	3.2	3.3	5.5	5.5	5.5	5.5	5.5	5.5	5.5
1970	1.5	2.4	2.7	2.8	3.0	3.1	3.9	4.7	5.3	5.9	5.9	6.5	7.4
1971	2.5	3.1	3.1	3.1	3.1	3.1	3.9	4.4	4.4	4.7	4.7	5.9	6.9
1972	2.0	2.1	2.2	3.8	3.8	3.8	5.7	5.7	5.9	6.8	6.8	7.4	7.9
1973	1.7	2.3	2.5	2.5	2.5	2.5	2.7	3.8	4.0	4.6	4.8	5.1	6.8
1974	3.3	3.4	3.6	3.7	4.2	4.2	4.7	5.2	5.4	5.5	5.5	5.6	5.6
1975	1.8	1.9	1.9	1.9	1.9	1.9	2.8	2.9	2.9	2.9	3.0	3.8	4.5
1976	1.9	2.2	2.5	2.9	3.5	3.5	3.7	4.6	4.6	5.2	5.2	5.6	7.2
1977	2.8	4.9	9.0	10.1	11.4	11.5	11.6	11.7	11.7	11.7	11.7	11.7	11.7
1978	1.2	1.5	1.7	1.7	1.7	1.7	2.2	2.7	2.8	2.8	2.8	3.1	3.3
1979	6.1	6.5	12.8	13.7	15.3	15.4	16.2	16.2	16.2	16.2	16.2	16.2	16.2
1980	2.0	2.9	3.0	3.0	3.4	3.6	4.2	4.2	4.5	4.6	4.6	6.3	7.1
1981	1.9	2.1	2.5	2.7	3.3	3.6	4.9	5.3	6.0	6.9	7.2	8.6	8.6
1982	2.3	2.5	2.8	4.2	4.9	5.4	7.3	8.0	8.1	8.9	9.0	9.0	9.0
1983	2.0	2.2	2.4	2.5	2.6	2.6	3.2	5.0	5.0	5.3	5.6	6.3	6.3
1984	2.0	3.1	3.1	3.1	3.2	3.2	4.2	5.8	7.6	8.1	8.6	9.1	9.6
1985	2.4	3.0	3.2	3.3	3.3	3.3	3.3	3.8	4.3	5.0	5.3	6.6	6.8
1986	1.9	3.1	3.9	3.9	3.9	3.9	5.3	5.3	5.7	5.7	5.7	6.6	6.6
1987	2.0	3.5	3.6	3.6	3.6	3.6	4.0	4.2	4.4	4.5	4.9	6.2	6.2
1988	1.4	1.8	1.9	2.3	2.6	2.6	3.2	3.5	4.3	4.7	4.7	4.7	4.7
1989	2.0	2.0	3.5	3.5	3.5	3.5	3.6	4.1	4.1	5.1	5.2	7.5	8.2
1990	1.8	2.3	3.1	3.9	4.1	4.3	4.7	4.7	4.7	5.0	5.9	6.2	6.2
Mean Annual	2.23	2.85	3.49	3.84	4.31	4.46	5.23	5.80	6.07	6.49	6.84	7.70	8.12
Maximum	6.1	6.5	12.8	13.7	15.3	15.4	16.2	16.2	16.2	16.2	16.2	16.2	16.2

(all volumes in inches)

Monticello

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1971	0.9	0.9	1.3	1.4	1.5	1.7	2.2	2.2	2.2	2.2	2.2	2.2	2.2
1972	2.3	2.7	3.0	3.0	3.3	3.3	4.4	5.1	5.1	6.1	6.3	6.3	6.3
1973	1.8	2.1	3.2	3.5	3.5	3.6	4.9	4.9	5.4	6.2	7.0	7.0	7.0
1974	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
1975	1.7	2.1	2.2	2.2	2.6	3.0	4.2	5.9	5.9	5.9	5.9	5.9	5.9
1976	2.0	2.6	3.4	3.6	3.7	4.0	4.5	5.3	5.4	6.0	6.0	6.0	6.0
1977	1.8	2.0	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
1978	3.0	3.3	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.6	3.7	3.7	3.7
1979	1.6	2.3	2.7	3.1	3.6	3.6	3.6	3.8	3.8	3.8	3.8	3.8	3.8
1980	1.7	2.3	3.2	3.9	4.7	4.7	6.4	7.1	7.1	7.1	7.1	7.1	7.1
1981	2.4	3.7	4.7	5.2	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
1982	1.3	1.4	1.5	1.7	2.0	2.0	2.7	2.9	2.9	2.9	2.9	2.9	2.9
1983	2.1	2.9	4.0	4.9	5.2	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
1984	2.6	3.0	3.5	3.5	3.8	3.9	4.1	4.1	4.1	4.1	4.1	4.1	4.1
1985	2.7	3.2	3.2	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.3	4.9	4.9
1986	2.3	2.3	2.9	3.3	3.4	3.7	3.7	3.7	4.3	5.2	5.2	5.2	5.2
1987	2.6	3.3	3.9	4.2	4.2	4.2	4.3	4.3	4.3	4.3	4.3	4.3	4.3
1988	2.2	2.5	2.8	3.3	3.9	4.5	5.6	5.9	6.4	6.8	6.8	6.8	6.8
1989	2.4	3.2	4.8	5.8	6.1	6.7	8.0	8.2	8.3	8.4	9.2	9.2	9.2
Mean Annual	2.39	2.84	3.37	3.71	3.93	4.07	4.58	4.84	4.93	5.14	5.26	5.29	5.29
Maximum	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.2	8.3	8.4	9.2	9.2	9.2

(all volumes in inches)

Moore Haven

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1942	1.7	2.0	2.3	2.9	3.4	3.4	3.8	4.2	5.1	5.2	5.3	5.4	6.3
1943	1.5	2.6	2.7	2.7	2.7	2.7	2.8	3.0	3.0	3.1	3.1	3.1	3.1
1944	1.9	3.4	4.2	4.2	4.2	4.2	4.3	4.3	4.3	4.3	4.3	4.3	4.3
1945	1.8	2.3	3.0	3.0	3.1	3.1	3.1	3.4	3.5	4.3	4.3	4.4	4.5
1946	2.3	2.5	2.7	2.7	2.7	2.7	2.8	2.8	3.1	3.1	3.1	3.1	3.1
1947	1.5	1.6	2.9	3.0	3.2	3.4	4.4	5.0	5.3	5.3	6.1	8.4	9.9
1948	2.1	3.5	4.8	4.8	4.8	6.1	8.7	9.5	9.8	9.8	9.8	9.8	9.8
1949	1.8	2.2	2.7	2.9	3.2	3.3	4.7	4.8	6.2	6.6	6.6	6.7	6.7
1950	2.3	2.7	2.7	2.7	2.7	2.7	2.7	2.8	3.0	3.5	3.5	3.6	4.4
1951	1.8	2.7	2.8	2.8	3.8	4.2	5.9	6.5	6.8	9.2	9.2	9.2	9.2
1952	2.7	2.8	3.4	3.6	3.6	3.6	3.6	5.1	5.1	5.4	5.5	5.6	5.6
1953	2.2	2.2	2.7	2.7	4.7	5.0	5.4	5.8	6.1	6.4	6.4	6.4	6.4
1954	3.1	3.4	3.5	3.5	3.5	3.5	4.3	5.0	5.1	5.1	5.1	6.4	8.4
1955	2.3	2.5	3.1	3.2	3.3	3.5	5.9	6.0	6.0	6.0	6.0	6.0	6.0
1956	1.1	1.4	1.6	1.6	1.6	1.6	2.5	2.8	3.2	3.3	3.3	3.3	3.3
1957	1.2	1.7	1.7	1.7	4.0	4.3	4.9	4.9	5.1	5.1	6.2	6.2	6.2
1958	2.2	2.9	3.2	3.2	3.4	3.4	3.6	3.6	3.7	3.7	4.0	4.4	4.4
1959	2.3	2.5	2.8	3.1	3.7	3.8	4.0	4.6	5.3	6.4	7.0	9.1	9.1
1960	1.8	2.4	2.8	2.7	3.3	3.7	4.7	4.8	4.8	4.8	5.2	5.6	5.9
1961	1.4	2.2	3.1	3.4	3.4	3.4	4.4	4.5	4.5	5.0	5.1	5.2	5.2
1962	2.0	2.2	2.4	2.6	2.8	2.8	4.1	4.5	4.9	5.0	5.0	5.1	5.1
1963	2.2	2.2	2.3	2.7	3.3	3.4	3.5	3.5	3.5	3.5	3.5	3.5	3.5
1964	2.0	2.2	2.9	3.0	3.0	3.0	3.0	4.1	4.1	4.9	5.3	5.9	5.9
1965	2.0	2.7	3.1	3.1	3.1	3.1	4.3	4.7	4.7	4.9	4.9	4.9	4.9
1966	1.8	2.2	2.2	2.2	2.7	2.8	2.8	2.6	3.2	3.9	4.2	5.1	5.4
1967	1.5	2.0	2.0	2.0	2.0	2.0	2.6	2.6	2.6	4.2	5.1	6.3	6.4
1968	3.2	3.4	3.9	4.2	4.4	4.4	4.4	4.7	4.9	5.0	5.1	5.3	5.3
1969	2.4	2.5	3.1	4.0	4.4	4.4	4.4	4.8	4.8	4.8	4.8	7.6	7.6
1970	1.8	2.3	2.4	2.5	3.7	3.9	5.0	5.5	5.5	5.5	5.5	5.5	5.5
1971	3.1	3.9	4.2	4.2	4.2	4.2	4.3	7.6	7.6	8.3	8.3	8.4	8.4
1972	1.9	3.0	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
1973	1.6	2.5	2.7	2.8	2.8	2.8	2.8	3.1	3.8	4.1	4.1	6.4	7.9
1974	2.2	3.2	3.9	3.9	3.9	3.9	4.4	4.9	5.9	6.2	6.5	7.2	7.2
1975	1.6	2.2	2.5	2.5	2.5	2.5	3.4	3.4	3.7	3.8	4.0	4.8	4.8
1976	2.8	2.8	2.8	2.8	2.8	2.8	3.6	4.4	4.4	6.0	6.2	7.1	7.1
1977	2.0	2.8	3.2	3.7	3.7	3.7	3.8	3.8	3.8	3.8	3.8	3.8	3.8
1978	1.9	2.5	2.7	2.7	2.7	2.7	3.4	3.6	3.6	3.9	3.9	3.9	3.9
1979	1.9	2.0	2.3	2.3	2.6	2.6	2.8	4.5	4.8	5.1	6.6	6.8	6.8
1980	1.3	1.5	1.5	1.9	2.5	2.5	2.5	2.5	2.5	2.8	2.8	3.0	3.0
1981	1.2	1.7	1.7	1.7	1.7	1.7	2.2	2.2	2.2	3.0	3.5	4.1	4.1
1982	2.6	3.2	3.8	3.8	3.9	3.9	4.8	5.1	5.1	5.1	5.3	7.2	7.5
1983	1.8	2.4	2.4	2.5	2.6	2.6	2.8	3.1	3.1	3.1	3.1	3.1	3.1
1984	1.4	1.7	2.7	3.1	3.8	3.8	3.8	3.8	3.8	3.8	4.6	4.6	4.6
1985	1.3	1.6	1.8	1.9	2.2	2.4	2.4	2.4	2.4	2.4	2.7	2.9	2.9
1986	1.8	2.4	2.6	2.7	2.8	2.8	3.5	4.4	4.4	4.4	4.4	4.4	4.4
1987	3.7	4.3	4.3	4.3	4.6	4.6	5.1	5.1	5.2	7.1	7.1	7.7	7.7
1988	1.7	1.9	2.9	3.1	3.1	3.1	3.5	3.5	3.5	3.9	3.9	3.9	3.9
1989	2.2	2.7	3.0	3.0	3.0	3.0	3.0	3.7	3.7	3.7	3.7	3.7	3.7
1990	1.8	2.3	2.3	2.3	2.3	2.3	2.3	3.6	3.6	5.1	5.3	5.5	5.5
Mean Annual	1.99	2.49	2.84	2.96	3.24	3.32	3.84	4.26	4.45	4.80	5.01	5.44	5.59
Maximum	3.7	4.3	4.6	4.8	4.8	6.1	6.7	9.5	9.8	9.8	9.8	9.8	9.9

(all volumes in inches)

Niceville

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1950	0.8	1.6	2.1	2.7	3.9	4.8	5.9	7.4	9.8	11.8	11.8	11.8	11.8
1951	1.3	1.9	2.2	2.5	3.0	3.4	5.4	5.6	5.6	5.6	5.6	5.6	5.6
1952	1.4	3.1	3.1	3.1	3.1	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
1953	2.2	3.2	4.3	5.1	6.6	6.8	10.1	11.2	11.6	11.8	11.8	11.8	11.8
1954	1.4	1.7	1.8	1.8	1.8	1.8	1.8	3.4	3.4	3.6	3.6	3.6	3.6
1955	2.8	3.5	4.1	4.2	4.7	4.7	5.7	5.7	5.7	6.0	6.0	6.0	6.0
1956	1.5	2.5	4.5	4.9	5.7	6.3	7.6	8.0	8.0	8.0	8.0	8.0	8.0
1957	3.5	5.1	6.1	6.5	6.7	7.0	7.2	7.2	7.5	7.5	7.7	8.6	8.8
1958	3.1	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	6.2	6.2
1959	2.1	2.8	2.9	2.9	3.9	4.6	5.1	5.1	5.4	5.9	6.3	6.3	6.3
1960	1.9	2.9	3.0	3.2	3.3	3.3	3.5	3.9	3.9	6.4	6.4	6.4	6.4
1961	1.3	2.5	3.3	3.8	3.9	3.9	3.9	4.7	4.9	5.5	5.7	5.7	5.7
1962	2.4	2.8	2.8	2.9	3.2	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
1963	1.2	1.7	2.8	3.1	4.1	4.5	5.6	6.6	6.7	6.7	6.7	6.7	6.7
1964	1.7	2.3	3.0	3.4	3.6	3.7	4.0	4.5	4.9	5.4	5.6	5.7	5.7
1965	3.0	3.5	3.6	3.6	3.6	3.6	4.2	4.6	5.6	6.3	6.9	6.9	6.9
1966	3.4	4.4	6.1	6.2	6.2	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
1967	2.3	4.1	6.0	6.9	7.7	7.7	8.0	9.5	9.8	9.9	9.9	9.9	9.9
1968	1.0	1.6	1.6	1.9	2.0	2.9	3.1	3.2	3.2	3.2	3.2	3.2	3.2
1969	1.6	1.9	2.6	3.4	3.6	3.9	5.5	5.8	5.9	5.9	5.9	5.9	5.9
1970	2.3	2.8	4.7	5.9	7.5	7.7	8.0	8.4	8.4	8.4	8.4	8.4	8.4
1971	1.2	1.7	2.0	2.3	2.4	2.4	2.4	2.5	2.5	2.9	2.9	2.9	2.9
1972	2.1	2.9	3.1	3.3	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
1973	1.7	3.1	4.3	4.5	4.6	4.7	5.2	5.2	5.2	5.2	5.2	5.2	5.2
1974	1.8	2.6	3.7	3.7	3.8	3.8	5.3	7.0	7.4	7.4	7.4	7.4	7.4
1975	1.9	2.7	3.6	5.1	5.9	6.9	9.1	12.2	13.3	15.6	15.6	15.6	15.6
1976	1.7	2.6	2.8	2.8	2.8	2.8	3.9	3.9	3.9	4.6	4.6	4.6	4.6
1977	1.6	2.0	2.5	2.7	2.8	2.8	3.8	4.0	4.5	4.9	4.9	4.9	4.9
1978	2.4	2.7	3.9	4.1	4.6	5.3	6.7	6.7	6.7	6.7	6.7	6.7	6.7
1979	2.5	3.3	3.7	4.3	4.9	5.2	5.8	7.8	8.5	8.5	8.5	8.5	8.5
1980	2.2	3.6	3.8	3.8	3.8	3.8	3.9	3.9	4.4	4.4	4.6	4.6	4.6
1981	1.6	2.5	3.5	4.8	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
1982	2.4	4.7	6.3	6.7	7.0	7.0	7.0	7.2	7.2	7.8	7.8	7.8	7.8
1983	2.1	2.8	3.7	4.1	4.6	4.7	5.4	5.4	5.4	5.4	5.4	5.4	5.4
1984	1.5	2.3	2.4	2.7	4.8	5.1	6.0	6.5	6.5	6.5	6.5	6.5	6.5
1985	2.2	3.1	4.6	4.8	6.4	6.4	6.5	6.5	6.5	6.5	6.5	6.5	6.5
1986	1.7	2.9	4.4	6.3	7.4	7.8	9.2	9.2	9.2	9.2	9.2	9.2	9.2
1987	2.6	3.4	3.7	3.9	4.3	4.6	4.7	5.4	5.4	5.4	5.6	5.7	5.7
1988	1.3	2.0	3.2	3.5	3.5	3.5	4.1	4.1	4.8	5.6	5.6	7.4	7.6
1989	2.7	3.3	3.5	3.5	3.5	3.5	5.5	5.9	5.9	6.5	6.8	6.8	6.8
1990	2.9	3.6	5.7	6.1	6.5	6.6	6.6	8.1	8.1	8.2	8.2	8.2	8.2
Mean Annual	2.01	2.89	3.66	4.05	4.54	4.75	5.49	6.00	6.23	6.56	6.61	6.72	6.73
Maximum	3.5	5.1	6.3	6.9	7.7	7.8	10.1	12.2	13.3	15.6	15.6	15.6	15.6

(all volumes in inches)

Orange City

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1944	1.3	1.4	1.9	2.1	2.6	3.6	4.7	4.7	5.8	5.8	5.8	5.8	5.8
1945	2.1	2.7	3.4	4.7	6.2	6.6	7.1	7.4	7.5	7.6	7.6	7.6	7.6
1946	1.4	2.0	2.0	2.0	2.0	2.0	2.9	2.9	3.0	3.0	3.0	3.0	3.0
1947	1.8	2.2	2.9	3.5	4.2	4.4	5.0	5.4	5.4	5.4	5.4	5.4	5.4
1948	1.4	2.0	2.0	2.0	2.3	2.3	2.8	3.3	3.3	3.4	3.4	3.4	3.4
1949	2.7	2.8	2.8	3.5	4.7	4.9	6.6	6.8	6.8	6.8	7.2	7.3	7.3
1950	1.1	2.0	3.1	3.4	3.9	4.0	6.1	7.2	8.1	9.4	9.4	9.4	9.4
1951	2.4	2.5	2.6	2.6	2.6	2.6	2.8	3.5	3.7	5.5	6.2	6.5	6.5
1952	1.7	2.1	2.2	2.9	3.4	3.4	3.4	3.4	5.1	5.1	5.1	5.1	5.1
1953	2.5	3.1	3.3	3.3	3.3	3.3	4.2	5.0	5.0	5.2	5.2	6.1	7.7
1954	1.5	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
1955	2.4	2.9	2.9	2.9	2.9	2.9	2.9	3.6	4.3	4.8	4.8	4.8	4.8
1956	2.0	2.4	2.9	3.2	3.8	3.8	5.3	5.7	5.8	6.1	6.2	6.7	6.7
1957	1.7	2.2	2.2	2.2	2.2	2.2	2.7	2.7	2.8	3.7	4.1	4.1	4.1
1958	2.0	2.2	2.3	2.5	2.8	2.9	3.3	3.7	3.7	3.7	3.7	3.7	3.7
1959	2.5	3.0	3.8	3.8	3.8	3.9	4.7	5.3	5.9	7.8	7.9	8.2	8.2
1960	3.1	3.4	3.6	4.6	6.6	6.9	7.7	7.7	8.0	8.3	8.4	8.9	8.8
1961	1.9	2.6	2.7	2.7	2.7	2.7	2.7	3.2	3.2	4.4	4.7	5.0	5.0
1962	2.6	3.1	3.1	3.1	3.1	3.1	3.4	3.6	3.7	4.0	4.3	4.3	4.3
1963	3.7	3.9	3.9	3.9	3.9	3.9	4.5	4.5	4.5	5.3	5.4	6.2	6.7
1964	2.1	2.7	2.7	2.7	3.5	4.2	7.4	9.2	9.7	9.8	9.8	9.8	9.8
1965	1.6	2.3	2.3	2.3	2.3	2.3	2.3	2.9	2.9	3.2	3.4	3.4	3.4
1966	1.6	5.5	5.5	5.5	5.5	5.5	5.7	5.7	5.7	5.7	5.7	5.7	5.7
1967	1.8	2.3	2.4	2.4	2.4	2.4	2.8	3.3	4.0	4.6	4.6	7.6	7.6
1968	2.6	4.1	4.2	4.2	4.6	5.0	6.8	7.3	8.3	9.0	9.0	9.0	9.0
1969	1.9	3.5	5.2	5.3	5.3	5.3	5.4	5.7	5.8	5.9	5.9	5.9	5.9
1970	1.9	2.1	2.1	2.1	2.1	2.1	2.9	3.0	3.0	3.1	3.6	6.2	6.2
1971	1.7	2.5	2.6	2.6	2.8	2.8	4.5	4.5	4.5	4.5	4.5	4.5	4.5
1972	1.8	2.2	3.2	3.9	4.2	4.2	4.2	5.3	5.3	5.8	5.8	5.8	5.8
1973	4.2	4.8	5.4	5.4	5.4	5.4	5.4	5.5	5.5	5.5	5.9	6.3	6.3
1974	1.5	2.1	2.7	2.8	2.9	2.9	3.1	3.5	4.0	6.6	7.1	7.1	7.1
1975	2.0	2.5	2.5	2.5	2.5	2.5	2.8	2.9	3.0	3.4	3.4	3.4	3.4
1976	1.5	1.9	1.9	1.9	2.1	2.2	2.6	3.0	3.0	3.0	3.6	4.3	4.3
1977	2.1	2.2	2.2	2.2	2.2	2.2	2.4	2.6	2.6	2.6	2.6	2.6	2.6
1978	2.3	3.1	3.3	3.3	3.3	3.3	4.2	4.2	4.2	4.6	4.6	4.7	4.7
1979	2.4	2.4	2.4	2.8	3.7	3.9	5.0	5.4	5.4	5.4	5.7	5.7	5.7
1980	2.0	2.6	2.8	2.8	2.8	2.8	2.9	3.1	3.2	3.2	3.2	3.2	3.2
1981	1.9	2.2	2.2	2.2	2.3	2.7	3.7	4.0	4.0	4.1	4.1	4.5	4.5
1982	2.8	3.4	4.9	5.6	6.5	6.5	7.1	7.1	7.3	8.2	8.2	8.2	8.2
1983	1.4	1.9	2.9	4.0	4.2	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
1984	1.6	2.0	2.4	2.7	2.7	2.7	3.8	3.8	3.8	3.8	3.8	3.8	3.8
1985	3.0	4.8	5.1	5.1	5.1	5.1	5.3	5.3	5.3	5.3	5.3	5.3	5.3
1986	0.6	1.0	1.8	2.4	3.0	3.2	4.9	4.9	4.9	5.2	5.4	5.4	5.4
Mean Annual	2.05	2.66	2.98	3.20	3.49	3.60	4.27	4.60	4.78	5.17	5.33	5.58	5.65
Maximum	4.2	5.5	5.5	5.6	6.6	6.9	7.7	9.2	9.7	9.8	9.8	9.8	9.8

(all volumes in inches)

Orlando

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1942	1.1	1.1	1.3	1.4	1.7	1.9	2.0	2.0	2.0	2.0	2.3	2.5	2.5
1943	1.7	1.8	1.9	1.9	1.9	1.9	2.8	2.8	3.1	3.1	3.9	4.4	4.4
1944	3.1	3.5	4.3	4.7	5.8	6.1	7.7	7.9	7.9	7.9	7.9	7.9	7.9
1945	2.6	3.4	5.1	6.0	7.0	7.6	9.7	10.1	11.1	11.1	11.1	11.1	11.1
1946	2.5	3.2	3.3	3.5	3.5	3.5	4.4	4.4	4.5	4.8	5.0	6.1	7.4
1947	2.7	4.0	4.1	4.1	4.1	4.1	4.1	4.3	4.7	5.3	7.0	7.8	8.9
1948	1.8	1.9	2.2	3.3	4.0	4.1	5.4	5.8	6.1	6.2	6.2	6.2	6.2
1949	2.2	2.6	2.6	2.8	3.4	3.5	5.3	5.6	5.6	5.7	5.7	5.7	5.7
1950	2.0	2.2	3.1	4.0	4.8	4.8	7.7	10.8	12.0	14.1	14.2	14.2	14.2
1951	2.5	2.7	2.7	2.7	2.8	2.9	4.0	4.4	4.6	5.2	5.8	6.2	6.2
1952	1.6	1.9	2.1	2.2	2.2	2.2	3.1	3.9	4.1	4.2	4.2	4.2	4.2
1953	1.5	2.0	2.2	2.4	2.9	2.9	3.0	3.0	3.1	3.9	4.0	5.1	5.9
1954	2.4	2.6	2.6	2.6	2.9	3.1	3.3	3.4	5.2	5.7	6.3	6.3	6.3
1955	1.6	2.1	2.1	2.1	2.1	2.1	2.5	3.0	3.0	4.2	4.2	4.5	4.5
1956	1.8	2.0	2.1	2.7	3.3	3.7	5.6	6.4	6.5	6.7	6.7	6.9	6.9
1957	1.3	2.1	2.6	3.0	3.0	3.0	3.7	4.0	4.3	4.6	4.8	5.7	5.7
1958	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.7	3.7	4.2	4.8	7.6	8.1
1959	2.4	3.2	3.3	3.3	3.3	3.3	3.7	4.6	4.7	5.3	5.4	5.8	6.0
1960	5.7	8.0	8.2	8.2	8.2	8.2	8.2	8.5	9.0	9.5	10.8	11.9	11.9
1961	2.5	2.9	2.9	2.9	3.4	3.9	4.6	4.6	4.6	4.6	4.6	4.6	4.6
1962	2.0	2.3	2.5	2.6	2.7	2.9	4.1	5.5	6.0	6.2	6.2	7.6	7.7
1963	3.2	3.5	3.6	3.6	3.6	3.7	3.9	4.1	4.2	5.2	5.5	6.0	6.0
1964	1.6	2.3	2.3	2.3	2.8	3.0	5.4	5.9	6.0	6.0	6.0	6.0	6.0
1965	2.4	2.6	2.6	2.6	2.6	2.6	2.7	3.2	3.2	4.3	4.4	7.4	9.0
1966	1.5	1.6	1.6	1.7	2.1	2.2	3.9	4.0	4.0	4.0	4.0	4.1	4.8
1967	1.0	1.8	1.8	1.8	2.0	2.0	2.3	2.7	3.2	4.2	4.5	4.5	4.5
1968	1.9	2.8	3.3	3.5	4.2	4.6	6.1	9.2	10.4	10.9	10.9	10.9	10.9
1969	2.0	2.2	2.4	2.6	2.6	2.6	3.6	3.8	3.8	3.9	4.0	4.8	5.1
1970	2.2	2.6	2.9	3.4	3.4	3.4	4.8	4.9	4.9	4.9	4.9	4.9	4.9
1971	1.6	1.8	2.1	2.2	2.2	2.3	2.9	3.6	3.6	3.7	3.8	4.5	4.7
1972	2.8	3.5	4.0	4.2	4.3	4.3	4.6	5.3	5.3	5.3	5.3	5.3	5.3
1973	2.5	4.0	4.7	4.8	4.9	4.9	6.1	6.2	6.3	6.6	6.9	7.1	7.1
1974	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
1984	0.3	0.3	0.4	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Mean Annual	2.11	2.60	2.85	3.04	3.31	3.42	4.30	4.81	5.07	5.45	5.68	6.16	6.36
Maximum	5.7	8.0	8.2	8.2	8.2	8.2	9.7	10.8	12.0	14.1	14.2	14.2	14.2

(all volumes in inches)

Ortona

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1942	1.8	2.2	3.6	4.6	5.0	5.0	6.0	6.1	6.6	7.0	7.0	7.0	7.0
1943	2.4	2.9	3.0	3.0	3.0	3.0	3.0	3.8	3.8	3.8	3.9	4.0	4.0
1944	1.7	3.2	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.1	5.1	5.1	5.1
1945	2.0	3.6	5.3	5.7	6.0	6.0	6.3	6.3	6.7	7.2	8.6	8.7	8.7
1946	2.3	2.5	2.5	3.0	3.1	3.1	3.4	3.4	3.4	3.4	3.4	3.4	3.4
1947	2.4	3.0	3.5	3.5	4.6	5.0	7.9	8.1	8.5	8.5	8.5	8.5	8.5
1948	1.9	2.4	2.9	3.0	3.9	4.4	6.1	6.7	7.0	7.3	7.4	7.4	7.4
1949	1.3	2.1	3.6	4.1	5.0	5.0	5.3	5.4	6.1	6.3	6.7	7.1	7.1
1950	1.6	1.9	2.0	2.0	2.0	2.0	2.0	2.4	2.8	3.3	3.5	3.9	3.9
1951	2.4	2.6	3.1	4.0	6.7	7.3	9.1	9.5	9.9	13.4	13.9	14.0	14.0
1952	2.3	3.1	3.1	3.1	3.1	3.1	3.1	3.8	4.1	4.7	5.7	6.8	6.8
1953	2.6	3.2	3.6	3.7	3.7	3.7	3.7	4.4	5.3	5.4	5.7	7.3	7.8
1954	1.9	2.7	3.2	3.3	3.3	3.3	4.8	5.3	5.5	5.8	6.1	6.2	6.2
1955	1.7	2.4	2.7	3.2	3.3	3.3	6.2	6.3	6.3	6.3	6.3	6.3	6.3
1956	1.1	1.2	1.2	1.3	1.7	1.8	2.0	2.4	2.5	2.6	2.8	2.8	2.8
1957	1.5	2.0	2.2	2.5	2.9	3.0	3.1	3.8	3.8	4.7	4.7	4.8	5.0
1958	3.1	3.3	3.3	3.3	3.3	3.3	4.3	4.6	4.6	5.3	5.9	5.9	5.9
1959	1.3	2.3	2.7	2.9	3.2	3.2	5.1	5.7	6.6	7.4	7.8	7.9	7.9
1960	2.1	2.9	3.2	3.2	3.2	3.2	4.1	4.3	4.3	4.4	4.7	5.9	7.8
1961	2.6	2.7	2.7	2.9	2.9	2.9	3.1	3.1	3.4	4.1	4.1	5.8	5.8
1962	2.3	2.5	2.7	3.0	3.2	3.3	4.2	4.9	5.9	6.0	6.4	6.7	6.7
1963	2.2	2.8	3.0	3.0	3.0	3.0	3.0	3.4	3.4	4.2	4.5	5.1	5.1
1964	1.4	1.4	2.3	2.5	2.7	2.7	3.7	3.7	3.7	3.8	3.8	3.8	3.8
1965	2.0	2.4	2.7	2.8	3.1	3.2	3.3	5.5	5.5	6.1	6.1	6.1	6.1
1966	1.2	1.5	1.9	2.2	2.2	2.2	2.5	2.8	2.8	2.8	3.2	4.0	4.0
1967	1.5	1.7	2.2	2.2	2.5	2.5	2.9	2.9	2.9	3.7	3.7	6.0	7.1
1968	1.8	2.3	2.9	3.0	3.1	3.1	3.3	3.8	3.9	4.5	4.8	4.8	4.8
1969	1.6	2.3	3.0	3.0	3.0	3.0	3.7	3.9	3.9	3.9	3.9	3.9	3.9
1970	1.7	2.2	2.9	2.9	3.7	3.9	4.8	5.9	5.9	5.9	5.9	5.9	5.9
1971	2.0	2.6	2.8	2.8	2.8	2.8	2.8	2.9	2.9	3.5	3.5	3.6	3.6
1972	1.3	1.7	2.1	2.9	3.4	3.6	4.2	4.9	5.3	5.7	5.9	5.9	5.9
1973	2.2	2.9	3.5	3.6	3.6	3.6	4.4	5.7	6.1	6.2	8.4	9.6	9.6
1974	1.7	2.1	2.7	2.7	3.5	3.7	4.4	5.7	6.1	6.2	8.4	9.6	9.6
1975	1.3	2.0	2.3	2.4	2.7	2.7	2.7	3.5	3.5	4.4	4.9	4.9	4.9
1976	2.0	2.5	3.2	3.2	3.2	3.2	3.4	3.4	3.4	3.5	3.9	3.9	3.9
1977	1.1	2.0	3.0	3.2	3.2	3.2	3.4	3.8	3.8	3.8	3.8	3.8	3.8
1978	3.0	3.5	3.6	3.6	3.6	3.6	3.6	4.0	4.0	4.5	4.5	4.6	4.6
1979	1.8	2.0	2.3	2.3	2.6	2.8	3.4	3.4	3.7	4.8	5.2	7.1	7.2
1980	2.0	2.0	2.0	3.3	3.3	3.3	3.3	4.7	4.7	4.7	4.7	4.7	4.7
1981	1.5	2.1	2.2	2.2	2.3	2.4	2.7	2.7	2.8	2.9	2.9	3.6	3.8
1982	2.8	3.4	3.5	3.6	3.6	3.6	3.6	3.6	4.5	5.7	7.0	7.6	9.0
1983	1.3	1.5	1.5	1.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.0	3.0
1984	1.4	2.7	3.1	4.0	4.4	4.4	4.6	4.6	4.6	4.6	4.6	6.4	6.9
1985	2.2	2.7	2.7	2.7	2.7	2.8	2.9	3.1	3.1	3.7	4.4	5.5	5.5
1986	1.8	2.2	2.2	2.2	2.4	2.5	2.8	2.9	2.9	2.9	2.9	3.3	4.0
1987	3.1	3.3	3.8	4.1	4.6	4.6	4.8	4.6	4.7	5.8	6.0	6.2	6.2
1988	2.1	3.2	3.3	3.3	3.3	3.3	3.5	5.4	5.5	5.9	7.5	8.1	8.1
1989	1.6	3.1	3.6	3.6	3.7	3.7	3.7	4.3	4.4	5.4	6.0	7.0	8.1
1990	1.6	1.9	2.2	2.5	2.5	2.5	2.7	3.0	3.2	4.6	4.6	4.9	4.9
Mean Annual	1.91	2.46	2.86	3.07	3.36	3.42	3.90	4.32	4.53	5.00	5.38	5.81	6.02
Maximum	3.1	3.6	5.3	5.7	6.7	7.3	9.1	9.5	9.9	13.4	13.9	14.0	14.0

(all volumes in inches)

Panacea

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	192 hr	240 hr
1942	1.8	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
1946	2.0	3.1	4.3	5.5	6.7	6.7	6.7	6.8	7.0	7.1	7.1	7.1	7.1
1947	3.5	3.7	3.7	3.6	3.6	3.6	4.1	4.4	4.4	5.0	5.4	6.3	6.3
1948	2.0	3.7	4.1	4.1	5.9	6.0	7.1	6.7	8.2	9.7	10.1	10.8	10.8
1949	1.6	2.6	3.7	4.0	4.0	4.0	4.0	4.0	4.0	4.7	4.7	4.8	4.8
1950	1.5	2.1	3.4	4.2	4.4	4.6	5.2	5.8	5.8	5.8	5.8	6.6	6.6
1951	2.5	2.7	2.8	2.9	2.9	2.9	3.8	4.4	4.4	4.4	4.4	5.0	5.4
1952	1.5	2.4	2.6	2.6	2.7	2.7	4.2	5.8	6.7	7.5	7.5	7.5	7.5
1953	2.2	3.6	5.0	5.1	6.3	6.5	7.4	6.3	6.7	8.8	8.8	8.8	8.8
1954	2.2	3.2	3.2	3.2	3.2	3.3	4.0	4.8	4.8	4.8	4.8	5.2	5.2
1955	3.0	3.5	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	4.8	4.8
1956	1.5	1.8	2.1	2.3	2.7	2.7	2.7	2.8	2.8	2.8	2.8	2.8	2.8
1957	2.6	3.6	4.6	5.6	6.5	6.7	7.9	8.8	8.9	12.5	13.7	14.9	15.7
1958	1.4	2.1	2.8	3.4	5.0	5.2	6.6	6.6	6.6	6.6	6.6	6.6	6.6
1959	1.7	2.9	3.5	3.8	4.1	4.6	5.7	5.7	5.8	6.5	7.2	8.0	8.0
1960	1.8	3.6	5.9	7.1	7.4	7.5	9.7	10.0	10.1	13.1	14.6	14.8	14.8
1961	1.9	2.0	2.3	2.5	3.0	3.3	4.2	4.9	4.9	4.9	4.9	4.9	4.9
1962	1.5	1.5	1.6	1.6	1.8	2.4	3.1	3.3	3.3	4.5	5.4	6.6	6.6
1963	2.3	4.3	5.1	5.6	5.9	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0
1964	4.9	6.7	9.7	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
1965	2.4	3.3	4.5	5.0	5.6	6.1	6.6	6.6	6.6	7.3	7.4	7.7	7.7
1966	4.4	6.0	6.2	6.2	6.3	6.3	6.4	6.5	6.5	6.7	6.7	6.7	6.7
1967	1.0	4.8	4.8	4.8	4.8	4.8	4.8	5.8	6.9	7.3	7.3	7.3	7.3
1968	2.2	2.7	4.8	5.3	6.7	7.1	8.2	8.3	8.3	8.3	8.3	8.3	8.3
1969	1.5	4.7	4.7	4.7	4.8	4.9	6.0	6.2	6.5	6.5	6.5	6.5	6.5
1970	2.2	4.2	5.2	5.7	6.3	6.3	6.5	6.5	6.5	6.5	6.5	6.5	6.5
1971	1.5	2.5	3.0	3.1	3.4	3.7	5.8	5.8	5.8	5.8	5.8	5.8	5.8
1972	1.9	2.1	2.1	2.3	2.8	2.9	3.3	3.7	4.2	4.8	4.9	4.9	4.9
1973	1.6	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	4.4	5.5	5.5	5.5
1974	2.1	3.7	5.6	5.9	6.4	6.4	7.7	9.4	9.4	10.2	10.3	10.3	10.3
1975	1.9	2.8	3.4	3.6	4.0	4.2	5.7	6.3	6.4	10.1	10.5	10.7	10.7
1976	2.4	3.8	5.2	6.1	7.7	7.9	11.9	13.2	13.8	14.2	14.2	14.2	14.2
1977	2.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
1978	1.7	1.9	2.0	2.2	2.7	2.8	2.8	3.0	3.0	3.2	3.2	3.4	3.4
1979	1.5	2.4	3.4	3.4	3.4	3.4	4.5	4.5	4.5	4.5	5.6	6.5	6.5
1980	1.6	2.1	2.4	2.6	3.2	3.8	3.9	4.7	4.7	4.7	4.7	4.7	4.7
1981	1.2	3.7	3.7	3.7	3.7	3.7	4.8	5.4	5.4	5.7	5.7	5.7	5.7
1982	2.2	3.4	3.7	4.3	5.3	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
1983	1.6	2.2	3.5	3.7	3.9	3.9	3.9	3.9	4.0	4.0	4.0	4.0	4.0
1984	1.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
1985	1.3	1.9	2.0	2.6	3.4	4.5	6.0	6.5	7.4	7.6	7.7	8.4	8.4
1986	1.5	2.1	2.4	2.8	3.5	3.6	5.0	6.8	6.8	6.8	6.9	9.1	9.1
1987	4.0	4.2	4.3	4.3	4.3	4.3	4.3	4.5	4.7	6.7	7.0	7.0	7.0
1988	1.8	2.9	4.0	4.8	6.7	7.0	8.4	8.9	9.0	9.3	9.3	9.3	9.3
1989	2.4	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.8	5.4	7.0	7.8	7.8
1990	1.6	1.7	2.0	2.4	2.5	2.5	3.1	3.4	3.4	3.4	3.4	3.4	3.4
Mean Annual	2.06	3.45	4.07	4.37	4.82	4.99	5.76	6.21	6.45	6.85	7.07	7.35	7.38
Maximum	4.9	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.7

(all volumes in inches)

Panama City

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1942	2.0	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.7	4.7	4.7	4.7	4.7
1943	2.4	2.7	3.9	4.2	4.6	5.3	5.4	5.4	5.5	5.6	5.6	6.6	6.6
1944	2.3	3.3	4.6	4.7	4.9	5.0	6.6	8.8	8.8	10.6	11.4	11.7	11.7
1945	2.0	2.9	3.1	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.5	3.5
1946	1.3	3.2	3.3	3.4	3.7	3.7	4.6	4.6	4.6	4.6	4.6	4.6	4.6
1947	1.4	2.1	2.4	2.6	3.1	3.3	3.8	4.0	4.8	5.2	5.3	5.3	5.3
1948	2.0	2.7	3.6	4.2	5.8	6.8	8.4	9.0	10.8	11.1	12.0	12.1	12.1
1949	1.8	2.2	2.6	2.6	3.0	3.0	4.3	4.3	4.3	4.7	6.9	7.9	8.1
1950	1.9	3.0	4.2	4.6	7.6	8.6	8.8	12.0	14.3	15.8	16.1	16.2	16.2
1951	2.4	3.5	4.0	4.7	4.7	4.7	5.6	5.6	6.4	6.4	6.4	6.4	6.4
1952	1.4	2.4	4.3	5.2	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
1953	1.4	2.6	3.1	3.1	3.1	3.1	3.2	3.2	3.9	5.0	5.0	5.0	5.0
1954	2.0	2.3	2.3	2.3	2.6	2.7	3.9	3.9	3.9	3.9	3.9	3.9	3.9
1955	1.3	2.0	2.8	2.8	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.1	3.1
1956	2.4	4.3	4.3	4.3	4.3	5.4	5.4	5.5	5.6	5.6	5.6	5.6	5.6
1957	1.7	2.2	3.0	3.4	3.7	3.7	5.4	5.8	8.1	9.7	10.7	10.7	10.7
1958	1.5	2.0	2.5	2.9	3.3	4.0	5.5	5.5	5.5	5.5	5.9	5.9	5.9
1959	2.2	3.6	5.4	5.8	5.9	5.9	5.9	6.2	6.2	7.5	7.5	7.5	7.5
1960	1.0	1.4	1.9	1.9	2.2	2.3	3.0	3.2	3.6	3.6	3.6	3.6	3.6
1961	0.9	1.8	1.8	1.8	1.8	1.8	2.3	2.5	2.5	2.5	2.5	2.5	2.5
1962	2.2	3.5	4.3	4.6	6.7	6.8	6.9	6.9	6.9	6.9	6.9	6.9	6.9
1963	1.4	2.3	3.2	3.3	3.3	3.3	4.0	6.2	6.4	6.4	6.4	6.4	6.4
1964	2.9	3.0	3.0	3.0	3.5	4.1	5.2	5.4	5.4	5.4	5.4	5.4	5.4
1965	1.8	3.2	3.2	3.8	3.8	3.8	3.8	3.8	4.6	5.4	5.4	5.4	5.4
1966	1.6	1.8	2.4	2.8	2.8	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1967	2.0	2.5	2.9	3.3	3.5	3.5	3.6	3.7	3.8	4.4	4.7	4.7	4.7
1968	1.7	2.5	2.7	2.7	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
1969	3.2	4.5	5.2	5.2	5.3	5.3	5.5	5.7	6.0	6.0	6.0	6.0	6.0
1970	1.9	3.4	3.6	3.8	4.0	4.0	4.0	5.6	6.2	8.1	10.1	11.5	11.5
1971	1.6	2.3	2.4	2.4	2.9	2.9	3.0	3.4	3.4	3.4	3.4	3.4	3.4
1972	1.8	2.3	2.6	2.8	3.4	3.6	5.5	5.7	5.7	5.7	5.7	5.7	5.7
1973	2.6	3.0	3.0	3.0	3.0	3.0	3.1	3.6	4.0	4.5	5.2	5.2	5.2
1974	1.9	2.1	2.1	2.2	2.9	3.7	4.3	4.3	4.6	5.9	6.0	6.2	6.2
1975	2.3	3.4	4.0	4.0	4.5	4.6	6.5	9.0	12.1	13.1	13.7	16.3	16.3
1976	1.2	1.7	2.1	2.4	2.4	2.5	3.8	3.8	3.9	3.9	3.9	3.9	3.9
1977	1.6	2.2	2.7	4.1	4.5	4.5	4.7	5.0	5.2	6.6	7.3	7.3	7.3
1978	2.6	3.5	3.7	4.2	4.9	4.9	5.1	5.3	5.5	5.5	5.5	6.1	6.1
1979	1.9	2.8	2.8	3.0	3.3	3.3	3.8	4.6	4.6	4.6	4.7	4.7	4.7
1980	1.6	2.3	3.2	3.5	3.7	3.7	4.1	4.5	5.4	5.8	7.2	7.2	7.2
1981	1.9	3.3	4.9	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
1982	2.1	3.3	4.8	4.9	5.8	5.6	5.7	5.7	5.7	5.7	5.8	6.1	6.1
1983	1.4	1.6	3.0	3.0	4.0	4.6	5.8	6.0	6.9	6.9	6.9	6.9	6.9
1984	2.0	3.3	5.1	7.0	8.7	9.5	11.1	11.2	11.2	11.2	11.2	11.2	11.2
1985	2.5	3.2	4.5	4.9	5.5	6.4	7.8	7.9	7.9	7.9	7.9	7.9	7.9
1986	1.6	1.7	1.9	2.1	2.2	2.4	3.3	3.9	4.7	4.7	4.7	5.8	5.8
1987	2.1	3.0	3.3	3.6	3.8	3.8	5.0	5.6	6.0	7.4	7.5	7.5	7.5
1988	1.6	2.4	3.2	3.7	4.3	4.6	5.2	5.4	6.8	7.5	7.5	7.5	7.5
1989	2.9	3.9	4.3	4.4	4.4	4.4	4.5	4.5	5.9	5.9	5.9	5.9	5.9
1990	1.4	2.0	2.4	3.1	3.5	3.7	5.0	5.2	5.3	5.6	5.6	5.6	5.6
Mean Annual	1.89	2.74	3.33	3.63	4.06	4.24	4.91	5.27	5.73	6.12	6.36	6.53	6.53
Maximum	3.2	4.5	5.4	7.0	6.7	9.5	11.1	12.0	14.3	15.8	16.1	16.2	16.2

(all volumes in inches)

Parrish

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1944	1.1	1.1	1.1	1.1	1.1	1.1	1.4	1.4	1.4	1.4	1.5	1.5	1.5
1945	2.2	3.4	4.5	5.2	7.4	8.8	10.8	11.4	11.6	11.6	11.6	11.6	11.6
1946	1.7	2.0	2.1	2.2	2.3	2.3	3.2	3.2	3.2	3.6	3.6	6.4	6.4
1947	2.2	2.5	2.7	2.7	3.5	3.9	5.2	5.9	5.9	5.9	5.9	5.9	5.9
1948	1.6	3.7	3.8	4.1	4.2	4.2	5.5	5.8	5.8	6.5	6.8	6.8	6.8
1949	2.2	2.9	4.3	4.4	4.8	4.7	5.9	6.7	7.5	7.7	7.7	7.7	7.7
1950	3.0	3.1	3.4	3.7	4.2	4.3	5.5	7.3	7.8	8.2	8.2	9.9	11.1
1951	2.8	3.5	3.6	3.6	3.9	3.9	5.6	5.7	6.1	6.6	6.6	6.6	6.6
1952	1.0	1.5	1.5	1.5	2.0	2.1	2.2	3.2	3.4	3.5	3.5	3.5	3.5
1953	2.7	3.3	4.3	4.7	5.3	5.4	5.4	5.7	6.0	7.3	7.6	7.8	7.8
1954	2.1	2.4	2.5	2.6	3.0	3.2	4.2	5.4	6.2	6.6	6.6	6.6	6.6
1955	1.9	2.4	2.6	2.7	2.8	2.8	3.3	3.3	3.5	4.7	4.7	4.9	4.9
1956	1.4	1.8	2.0	2.1	2.1	2.2	2.6	2.7	2.7	3.2	3.2	3.7	3.9
1957	1.4	1.4	1.4	1.6	1.7	1.7	2.5	2.9	3.3	3.6	3.6	3.6	3.6
1958	10.0	10.0	10.0	10.0	10.0	10.0	11.3	12.4	12.5	12.5	12.5	12.5	12.5
1959	1.9	2.6	2.7	3.3	4.5	5.0	5.5	6.3	6.9	6.9	6.9	6.9	6.9
1960	1.8	2.8	3.9	5.1	5.9	6.0	6.3	6.3	7.1	9.0	11.0	11.2	11.2
1961	1.8	2.3	2.9	3.3	3.3	3.3	3.3	3.3	3.9	3.9	3.9	3.9	3.9
1962	1.7	2.9	4.1	5.5	6.1	6.5	9.9	10.5	10.8	10.8	10.6	10.6	10.6
1963	3.2	3.3	3.7	4.1	4.3	4.3	4.3	4.3	4.4	4.4	4.4	4.4	4.4
1964	4.1	4.2	4.2	4.2	4.2	4.2	4.2	5.2	5.2	5.9	5.9	5.9	5.9
1965	2.7	4.4	4.5	4.5	4.5	4.5	4.5	4.7	4.8	6.1	6.4	7.1	7.7
1966	1.6	2.0	2.3	2.6	3.1	3.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1967	2.0	2.5	3.1	3.2	3.3	3.5	5.6	7.1	8.0	8.7	9.7	9.7	9.7
1968	2.6	2.9	3.2	3.6	4.7	4.9	6.1	6.2	6.2	6.2	6.2	6.5	6.5
1969	1.6	2.6	2.8	2.8	2.8	2.8	3.2	3.4	3.5	3.7	3.7	3.9	3.9
1970	1.6	2.2	2.7	2.9	3.0	3.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1971	1.7	2.1	2.3	2.7	3.0	4.0	4.5	4.5	4.5	4.5	4.5	6.1	6.5
1973	3.5	3.9	3.9	4.1	4.2	4.2	4.4	4.7	4.7	5.4	5.4	5.4	5.4
1974	1.9	2.2	2.4	3.5	3.8	4.0	4.7	5.3	5.7	7.7	8.9	8.9	8.9
1975	2.0	2.7	2.7	2.7	2.8	2.8	2.9	3.0	4.0	4.1	4.4	4.5	4.5
1976	1.6	2.5	2.6	3.0	3.2	3.3	3.4	3.7	3.7	4.2	4.4	4.4	4.4
1977	1.8	2.1	2.1	2.1	2.2	2.2	2.2	2.6	2.9	3.6	4.2	4.5	4.5
1978	1.8	3.0	3.3	3.4	3.4	3.4	3.4	3.8	3.8	4.7	4.7	4.7	4.7
1979	2.4	2.6	2.7	2.7	2.7	2.7	3.5	3.8	3.8	4.9	5.3	5.9	5.9
1980	2.1	3.3	3.9	4.0	4.0	4.0	4.6	4.9	5.5	5.6	5.6	5.6	5.6
1981	2.5	2.6	3.0	3.0	3.0	3.0	3.2	4.7	4.7	5.7	5.7	5.7	5.7
1982	1.5	2.2	2.6	2.9	3.3	3.7	4.6	5.0	5.0	5.6	5.6	5.6	5.6
1983	2.1	3.1	3.4	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
1984	1.2	1.8	1.9	1.9	1.9	1.9	2.0	2.9	2.9	2.9	2.9	2.9	2.9
1985	2.3	2.4	2.4	2.4	2.4	2.4	2.5	3.0	3.8	5.1	5.4	6.0	6.0
1986	1.6	2.6	2.8	2.8	2.8	2.8	2.8	3.7	3.7	4.8	4.8	4.8	4.8
1987	1.6	1.6	2.0	2.3	2.6	2.9	3.7	3.8	4.1	4.1	4.1	4.1	4.1
1988	2.1	2.5	3.1	3.5	4.5	4.7	6.6	7.9	9.6	10.5	11.7	11.7	11.7
1989	1.9	2.2	2.6	2.8	2.9	2.9	2.9	3.7	4.7	7.1	7.1	7.1	7.1
1990	2.6	5.0	5.6	5.8	6.6	6.6	6.6	6.9	6.9	6.9	6.9	6.9	6.9
Mean Annual	2.23	2.85	3.17	3.41	3.76	3.69	4.48	4.96	5.24	5.79	5.96	6.17	6.23
Maximum	10.0	10.0	10.0	10.0	10.0	10.0	11.3	12.4	12.5	12.5	12.5	12.5	12.5

(all volumes in inches)

Pennsuco

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1942	1.7	1.9	2.6	3.4	3.8	3.8	3.8	5.8	5.9	6.8	7.4	9.3	13.1
1943	2.5	3.3	4.2	4.5	4.5	4.5	7.1	7.2	7.2	7.2	7.2	9.4	9.8
1944	1.7	2.6	3.3	3.3	3.4	3.8	4.8	5.4	7.1	8.8	9.1	9.2	9.2
1945	2.3	3.2	3.3	3.4	3.7	4.7	4.8	4.8	4.8	4.9	5.3	6.0	6.2
1946	2.1	2.4	3.0	3.0	3.1	3.2	3.1	3.2	3.9	4.6	4.9	5.3	5.3
1947	1.8	5.5	5.5	5.6	5.6	5.6	8.7	8.8	8.8	9.1	9.2	10.1	10.1
1948	2.3	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
1949	3.0	4.0	4.1	4.1	4.1	4.1	4.5	6.0	6.1	6.1	6.1	7.6	7.8
1950	1.5	2.3	2.8	3.1	4.1	4.2	4.3	4.3	4.7	4.9	5.6	6.7	8.1
1951	1.9	2.8	2.9	3.0	3.0	3.0	3.1	5.0	5.0	5.0	7.4	7.5	7.5
1952	2.2	3.7	4.5	4.6	4.6	4.6	4.6	5.4	6.2	7.0	7.7	7.7	7.7
1953	2.2	2.4	2.9	3.0	3.0	3.0	3.6	4.3	5.7	7.0	7.3	9.9	10.8
1954	2.0	2.9	2.9	2.9	3.1	3.2	4.5	4.7	5.2	6.5	7.0	7.2	7.2
1955	2.0	2.3	3.6	5.0	7.0	7.4	7.9	8.2	9.3	9.5	9.5	9.5	9.5
1956	2.6	4.8	4.9	4.9	4.9	4.9	5.3	6.1	6.1	6.1	6.1	6.4	6.4
1957	2.1	4.2	4.6	4.9	5.2	6.7	9.0	9.0	9.0	9.0	9.0	9.0	9.0
1958	1.8	2.4	2.4	2.4	2.4	2.4	4.3	4.5	4.5	6.0	8.0	8.0	8.0
1959	2.9	2.9	2.9	2.9	3.4	3.4	5.9	6.0	7.3	9.5	11.6	12.9	13.9
1960	1.7	3.0	3.5	3.6	3.6	3.6	5.5	6.1	6.3	6.3	6.4	6.5	6.5
1961	2.2	3.0	3.0	3.1	3.1	3.1	3.6	3.9	4.3	4.5	5.0	5.0	5.0
1962	2.3	2.4	7.6	7.6	7.6	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
1963	2.2	2.2	2.7	2.8	2.9	2.9	3.0	3.3	3.3	4.0	5.3	6.2	7.3
1964	3.0	3.5	3.8	3.9	4.2	4.3	5.0	5.5	6.2	7.3	7.3	7.9	8.4
1965	1.4	3.0	3.0	3.0	3.4	3.9	4.4	4.9	4.9	5.1	5.1	5.9	5.9
1966	2.5	2.7	2.7	3.0	3.7	4.5	6.2	6.2	6.3	6.4	6.5	10.5	11.1
1967	2.1	3.5	3.5	5.0	5.1	5.1	5.8	6.4	6.4	7.8	8.4	9.4	9.4
1968	2.0	3.1	3.9	4.1	4.4	4.5	5.7	6.6	6.6	7.0	7.1	8.5	8.5
1969	2.7	3.1	3.1	3.1	3.1	3.1	3.2	3.2	3.2	3.2	3.2	3.2	3.2
1972	2.0	2.1	2.2	2.2	2.2	2.2	2.4	2.8	2.8	3.3	3.9	4.5	4.5
1973	1.7	2.0	2.1	2.1	2.4	2.4	3.5	3.9	4.6	6.3	6.9	6.9	6.9
1974	2.1	2.3	2.3	2.3	2.3	2.3	2.6	2.6	2.6	2.8	2.9	2.9	2.9
1975	1.8	2.2	2.2	2.3	2.4	2.4	2.4	4.2	4.2	5.3	5.4	5.5	5.5
1976	1.8	2.4	2.5	2.5	2.5	2.5	3.4	3.4	4.1	4.3	4.3	5.2	5.8
1977	1.7	3.1	3.5	3.5	3.5	3.5	3.5	5.0	5.5	6.1	6.1	6.1	6.1
1978	1.7	1.7	1.8	1.8	1.8	1.8	2.8	3.0	3.0	3.0	3.0	3.0	3.0
1979	2.4	3.5	6.1	8.0	9.3	9.7	10.4	10.8	10.6	10.8	10.8	10.8	10.8
1980	1.3	1.7	1.9	2.5	2.8	2.8	2.7	2.7	2.8	3.0	3.4	4.3	4.3
1981	2.0	2.9	4.2	5.0	6.8	7.2	9.6	12.3	12.8	14.0	14.2	14.8	15.1
1982	1.7	1.9	2.2	2.8	3.4	3.4	3.6	4.8	5.1	5.3	5.7	5.9	5.9
1983	2.1	4.0	5.3	5.3	5.3	5.3	5.9	7.3	7.3	7.5	8.0	8.5	8.5
1984	1.5	1.9	2.4	2.4	2.9	2.9	2.9	2.9	2.9	3.1	3.1	3.1	3.1
1985	3.7	4.4	4.4	4.4	4.4	4.4	5.0	5.3	5.8	5.8	5.9	7.0	8.3
1986	1.7	2.0	2.1	2.1	2.2	2.2	2.2	2.8	2.8	3.0	3.9	3.9	3.9
1987	1.6	2.0	2.0	2.1	2.3	2.5	3.3	3.3	3.3	3.7	3.7	4.9	4.9
1988	2.4	2.5	2.5	2.5	2.5	2.5	2.8	2.7	2.9	3.2	3.5	4.7	4.8
1989	2.4	2.7	2.9	3.1	3.1	3.1	3.1	3.2	3.2	3.5	3.6	4.2	4.2
1990	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Mean Annual	2.07	2.97	3.42	3.64	3.69	4.02	4.73	5.27	5.51	6.02	6.33	6.97	7.23
Maximum	3.7	10.0	10.0	10.0	10.0	10.0	10.4	12.3	12.8	14.0	14.2	14.8	15.1

(all volumes in inches)

Pensacola

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1942	1.7	2.0	3.3	4.9	6.0	6.0	7.4	7.5	7.8	8.3	8.3	8.3	8.3
1943	1.5	1.7	2.1	2.4	4.4	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
1944	2.0	2.4	2.6	3.7	5.2	6.2	6.7	7.2	7.2	8.6	8.7	8.8	8.8
1945	2.0	2.8	3.6	3.6	4.0	4.0	4.5	4.5	4.5	4.5	4.5	4.5	4.5
1946	2.3	4.0	4.3	4.8	4.9	4.9	6.8	7.3	7.7	7.7	7.7	7.9	7.9
1947	1.8	2.6	3.5	4.8	5.3	5.6	6.8	6.8	6.8	6.8	6.8	6.8	6.8
1948	2.8	5.4	6.2	7.2	7.6	7.6	7.8	8.0	8.0	8.0	9.8	10.7	10.7
1949	2.0	3.0	4.3	4.9	5.3	5.3	5.3	6.5	6.5	6.5	6.5	6.9	6.9
1950	1.5	2.0	3.0	3.4	5.3	5.4	7.4	8.4	8.5	10.2	11.0	11.3	11.3
1951	1.6	2.0	2.4	3.1	4.6	5.3	7.2	7.4	7.7	7.7	7.7	7.7	7.7
1952	1.4	2.1	2.6	3.3	3.4	3.4	4.3	4.3	4.3	4.3	4.3	4.3	4.3
1953	1.4	2.5	3.7	4.1	4.4	4.4	7.5	8.8	9.1	9.1	9.1	9.1	9.1
1954	1.5	1.5	1.8	1.8	1.8	1.8	2.0	2.3	3.6	3.6	4.2	4.3	4.3
1955	2.7	4.3	6.3	7.4	8.0	8.0	9.1	9.2	9.2	9.2	9.2	9.2	9.2
1956	2.2	2.7	3.8	4.7	5.2	5.6	8.5	10.0	10.5	10.7	10.7	10.7	10.7
1957	2.1	2.6	3.1	3.4	3.6	3.6	3.9	3.9	4.4	5.4	5.8	7.0	7.0
1958	1.5	1.8	2.2	2.5	2.6	2.7	3.8	4.0	4.2	5.0	5.5	5.5	5.5
1959	1.4	2.1	3.8	4.3	5.2	5.6	6.9	8.0	10.7	12.5	12.6	12.9	12.9
1960	0.9	1.4	2.2	2.8	3.3	3.6	4.8	6.6	6.6	7.3	7.3	7.3	7.3
1961	1.4	2.5	2.7	3.2	4.2	4.5	5.6	6.0	6.2	6.6	6.7	6.7	6.7
1962	1.1	1.2	2.0	2.1	2.6	2.6	3.0	3.0	3.0	3.0	3.0	3.0	3.0
1963	1.9	2.4	4.0	4.1	4.1	4.1	4.2	4.4	7.7	7.8	7.9	8.9	8.9
1964	1.7	2.3	3.0	3.2	3.4	3.4	3.7	3.7	3.8	6.8	6.8	6.8	6.8
Mean Annual	1.76	2.49	3.33	3.90	4.54	4.70	5.73	6.19	6.63	7.13	7.33	7.53	7.53
Maximum	2.8	5.4	6.3	7.4	8.0	8.0	9.1	10.0	10.7	12.5	12.6	12.9	12.9

(all volumes in inches)

Port Mayaca

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	192 hr	240 hr
1942	1.8	2.4	2.9	3.0	3.2	3.3	4.0	5.1	5.2	5.7	6.6	8.6	8.8
1943	2.7	2.8	2.8	2.8	2.8	2.8	3.1	3.1	3.1	3.1	3.3	4.2	5.2
1944	2.7	2.9	3.0	3.1	3.1	3.1	3.2	3.4	3.7	4.9	6.4	8.4	6.4
1945	2.5	2.9	3.0	3.1	4.4	4.8	5.8	6.2	6.2	7.2	7.3	8.3	8.3
1946	1.0	1.5	2.4	3.1	4.2	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
1947	2.2	2.5	2.8	3.6	4.2	4.2	5.7	6.3	6.5	6.5	6.5	6.5	6.5
1948	1.3	1.7	2.0	2.0	2.4	2.4	4.2	4.8	4.6	4.7	4.7	5.0	5.0
1949	1.7	2.2	2.8	4.0	4.7	5.0	6.8	6.8	6.8	6.8	6.8	6.8	6.8
1950	2.2	2.2	2.3	2.6	2.6	2.6	4.2	4.9	5.1	5.6	5.7	5.7	5.7
1951	3.2	5.8	5.8	5.8	6.1	6.2	6.2	6.5	6.5	12.1	12.7	13.0	13.0
1952	1.5	3.0	3.5	3.5	3.7	3.7	3.7	3.7	3.7	4.3	4.3	4.3	4.3
1953	2.0	2.2	3.0	3.0	3.0	3.0	3.3	3.4	4.2	4.5	5.4	6.3	7.2
1954	1.6	1.8	2.1	2.4	2.7	2.8	4.2	5.6	5.7	6.5	6.5	6.5	6.5
1955	2.3	2.7	2.7	2.8	2.8	2.8	3.1	3.7	3.9	3.9	3.9	3.9	3.9
1956	2.2	2.3	2.3	2.3	2.8	3.3	4.5	4.7	5.1	5.1	5.1	5.1	5.1
1957	1.3	1.5	2.0	2.8	3.5	3.6	3.8	3.8	3.9	5.3	5.3	5.6	5.6
1958	1.5	2.5	3.3	3.3	3.9	5.2	2.7	2.7	2.7	2.9	2.9	2.9	2.9
1959	2.1	2.2	3.1	4.1	5.2	5.6	6.0	6.6	6.7	6.8	7.0	7.5	7.5
1960	0.9	1.7	2.6	2.8	2.9	2.9	3.6	3.6	3.6	3.7	3.8	3.8	3.8
1961	1.6	1.7	2.2	2.2	2.7	2.7	3.6	3.6	3.6	3.6	3.6	3.6	3.6
1962	1.6	1.7	2.2	2.2	2.4	2.4	3.6	4.1	4.1	4.3	4.8	4.8	4.8
1963	1.7	2.2	2.4	2.4	2.4	2.4	2.9	5.4	5.4	5.6	5.7	5.7	5.7
1964	1.7	2.7	2.8	2.9	2.9	2.9	2.9	5.4	4.1	4.2	4.9	5.8	6.4
1965	2.4	2.8	3.0	3.2	3.5	3.5	4.5	4.5	4.5	4.7	4.7	4.8	4.8
1966	1.9	2.5	2.9	2.9	3.0	3.7	4.5	4.5	4.1	4.1	4.1	4.1	4.1
1967	2.7	2.7	2.8	3.1	3.1	3.3	3.3	3.7	3.7	3.9	4.1	7.1	7.1
1968	2.0	2.0	2.1	2.2	3.0	3.9	4.5	5.6	6.3	6.6	6.6	6.7	6.7
1969	2.5	2.6	3.4	4.0	4.6	4.7	4.8	4.9	5.8	6.0	6.0	6.0	6.0
1970	1.7	2.2	3.5	4.9	5.9	5.9	8.1	8.5	8.5	8.5	8.5	8.5	8.5
1971	1.9	2.6	4.0	4.5	4.6	4.6	4.6	4.8	4.8	5.4	5.4	5.4	5.4
1972	2.0	2.7	3.8	3.8	3.8	4.3	7.2	8.0	8.3	8.4	8.4	8.4	8.4
1973	4.2	4.4	4.4	4.5	4.5	4.5	5.2	5.4	5.7	5.7	5.7	5.7	5.7
1974	1.1	1.6	2.1	2.5	3.1	3.2	4.9	5.6	6.3	7.1	7.1	7.5	8.3
1975	4.6	4.7	4.7	4.7	4.7	4.7	4.7	5.7	5.7	5.7	5.7	5.7	5.7
1976	2.0	2.2	2.2	2.2	2.5	2.5	3.5	3.5	3.9	3.9	3.9	4.0	4.0
1977	2.1	3.2	3.5	3.5	3.5	3.5	3.5	3.8	4.0	4.5	4.5	4.5	4.5
1978	2.0	3.1	3.2	3.2	3.2	3.2	3.6	3.6	3.6	4.4	4.4	4.6	4.6
1979	1.6	1.6	2.0	2.7	3.0	3.4	5.1	5.4	5.6	5.6	6.0	6.0	6.0
1980	1.8	3.8	3.8	3.8	3.8	3.8	3.8	4.3	4.4	5.3	5.6	6.3	6.3
1981	1.3	1.5	1.5	1.5	1.9	2.2	2.3	2.5	2.6	3.1	3.1	3.1	3.1
1982	2.2	3.2	3.3	3.8	3.9	3.9	4.4	4.7	4.8	6.0	6.0	6.2	6.2
1983	0.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
1984	1.0	4.7	4.7	4.7	4.7	4.7	4.7	5.0	5.1	5.1	5.1	5.1	5.1
1985	0.9	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
1986	0.9	2.3	2.4	2.4	2.4	2.4	2.4	3.5	4.7	5.0	5.2	5.2	5.2
1987	1.3	1.9	2.3	2.3	2.3	2.3	4.5	4.5	5.8	6.2	6.2	6.2	6.2
1988	1.2	2.0	2.6	2.9	2.9	2.9	3.1	3.1	3.1	3.1	3.1	3.1	3.1
1989	1.4	2.5	2.8	2.9	2.9	2.9	2.9	2.9	3.1	3.3	3.3	3.3	3.3
1990	1.2	3.1	3.1	5.1	5.4	5.7	6.0	6.0	6.0	6.1	6.1	6.1	6.1
Mean Annual	1.87	2.61	2.96	3.23	3.51	3.68	4.29	4.66	4.84	5.24	5.48	5.73	5.80
Maximum	4.6	5.8	5.8	5.8	6.1	6.2	8.1	8.5	8.5	12.1	12.7	13.0	13.0

(all volumes in inches)

Raiford

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1949	2.1	2.3	2.5	2.5	2.5	2.5	2.7	2.7	3.2	3.2	3.4	4.9	4.9
1950	1.8	2.8	2.7	2.7	3.0	3.1	4.6	6.3	6.8	7.3	8.1	8.1	8.1
1951	1.7	1.7	1.9	1.9	2.0	2.0	2.9	3.0	3.0	3.0	3.0	3.6	3.6
1952	1.6	2.0	2.1	2.2	2.3	2.3	2.5	2.7	2.7	2.9	2.9	2.9	2.9
1953	1.5	2.2	2.7	3.1	3.7	3.7	4.3	4.4	4.4	4.5	4.5	4.5	4.5
1954	1.4	2.5	2.6	3.0	3.0	3.0	3.0	3.3	3.3	3.3	3.3	3.3	3.3
1955	2.0	2.3	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.0	4.0	5.4	5.7
1956	1.9	2.5	2.5	2.5	2.7	3.5	4.0	4.2	4.3	4.9	4.9	5.0	5.0
1957	2.2	2.3	2.3	2.3	2.3	2.3	3.6	4.5	5.1	6.2	6.7	6.8	6.8
1958	1.6	1.6	1.6	1.6	1.7	1.9	2.1	3.2	3.2	3.2	3.2	3.2	3.2
1959	1.7	2.2	2.2	2.2	2.2	2.2	2.9	3.9	4.2	4.3	4.4	6.4	6.4
1960	1.6	1.8	1.9	2.6	2.8	3.2	4.2	4.5	5.2	6.1	6.1	6.1	6.1
1961	2.8	3.4	3.6	3.6	3.6	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
1962	1.8	2.0	2.0	2.1	2.1	2.1	3.0	3.0	3.0	3.0	3.0	3.0	3.0
1963	2.8	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.8	5.5
1964	1.7	2.2	2.6	3.0	4.3	4.9	7.8	9.1	10.5	13.0	13.8	13.8	13.8
1965	1.4	1.7	1.9	2.0	2.0	2.1	2.4	2.8	2.8	4.4	4.7	4.7	4.7
1966	1.1	1.5	2.7	3.5	3.5	3.5	4.3	5.5	5.9	6.1	6.1	6.1	6.1
1967	2.2	3.8	3.8	3.8	3.8	3.8	3.9	4.5	4.5	4.5	4.5	4.5	4.5
1968	3.0	3.5	3.5	3.5	3.5	3.8	4.1	4.5	4.9	6.2	6.4	6.8	6.8
1969	1.1	1.6	2.3	3.1	3.2	3.2	3.2	3.2	3.2	3.2	4.1	4.4	4.4
1970	1.3	3.0	3.1	3.8	4.5	4.7	5.1	6.1	6.1	6.1	6.1	6.1	6.1
1971	1.4	1.7	2.1	2.4	2.6	2.6	2.6	2.7	2.7	2.7	2.7	2.7	2.7
1972	1.3	1.4	1.6	2.4	3.1	3.5	4.1	4.5	5.0	5.4	5.5	5.5	5.5
1973	1.5	2.5	2.6	2.6	2.6	2.6	3.0	3.2	3.4	4.3	4.3	4.6	4.6
1974	2.3	2.4	2.4	2.5	2.5	3.0	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1975	1.9	3.3	3.7	3.7	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
1976	1.9	2.7	3.0	3.0	3.0	3.0	3.3	3.3	3.5	3.6	3.6	4.2	4.2
1977	2.2	2.6	2.6	2.6	2.6	2.6	2.7	2.7	2.7	3.5	3.8	3.8	3.8
1978	1.9	3.2	4.7	4.8	5.3	5.4	5.7	5.7	5.7	5.7	5.8	6.3	6.5
1979	1.0	1.7	2.0	2.2	2.4	2.4	2.5	2.6	2.6	3.0	3.0	3.0	3.0
1980	1.6	2.4	2.5	2.5	2.5	2.5	2.6	3.9	4.1	4.5	4.6	5.4	5.4
1981	2.2	4.1	5.0	5.2	5.2	5.2	5.2	5.2	5.3	5.5	6.7	6.8	6.8
1982	2.2	3.6	3.8	3.8	3.9	3.9	3.9	4.0	4.3	4.3	4.3	4.3	4.3
1983	1.8	2.7	3.3	3.3	3.3	3.3	3.4	4.0	4.0	4.0	4.0	4.0	4.0
1984	1.0	1.3	1.5	1.7	2.3	2.4	2.9	2.9	2.9	2.9	2.9	3.0	3.0
1985	2.8	3.1	3.2	3.2	3.2	3.2	4.0	4.0	4.0	4.0	4.2	4.8	4.8
1986	1.9	2.2	2.5	2.7	2.9	2.9	3.7	4.0	5.0	5.1	5.1	5.1	5.1
1987	1.4	2.0	2.3	2.3	2.5	2.8	3.2	3.6	3.6	3.6	3.6	3.6	3.6
1988	1.6	2.3	2.3	2.3	2.3	2.3	3.4	3.6	3.7	4.1	5.9	5.9	5.9
1989	1.7	1.7	1.8	1.8	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0
1990	1.2	1.6	1.7	1.7	1.7	1.9	2.6	2.6	3.0	3.0	3.0	3.0	3.0
Mean Annual	1.79	2.42	2.66	2.82	3.00	3.11	3.57	3.92	4.10	4.42	4.63	4.86	4.89
Maximum	3.0	4.3	5.0	5.2	5.3	5.4	7.8	9.1	10.5	13.0	13.8	13.8	13.8

(all volumes in inches)

St. Leo

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1944	1.1	1.8	2.2	3.1	4.9	5.0	6.0	6.1	6.1	6.1	6.1	6.1	6.1
1945	2.6	3.2	3.4	3.5	3.5	3.5	3.7	4.9	5.1	5.6	6.6	9.2	9.9
1946	1.9	2.5	2.5	2.5	2.5	2.5	3.3	4.0	4.0	4.0	4.0	4.1	4.2
1947	2.2	4.5	4.5	4.6	4.6	4.6	4.6	4.6	4.7	4.8	4.9	5.3	5.3
1948	1.8	2.6	3.5	3.5	3.5	3.5	4.0	4.1	4.2	5.0	5.2	5.7	5.7
1949	2.6	5.0	5.3	5.3	5.3	5.3	6.6	7.1	7.3	8.2	8.8	8.8	8.8
1950	1.7	2.9	4.1	4.8	5.9	6.0	8.3	12.2	13.6	15.7	15.8	15.8	15.8
1951	2.4	3.3	4.1	4.1	4.6	4.6	6.4	6.5	6.7	6.7	6.7	6.7	6.7
1952	2.3	2.4	2.5	2.5	2.5	2.5	2.6	3.0	3.1	3.2	3.2	3.2	3.2
1953	2.4	4.0	7.5	9.8	10.5	10.7	10.8	10.8	10.8	10.8	10.8	10.8	10.8
1954	2.9	3.8	4.1	4.3	4.3	4.3	5.2	5.3	5.8	5.8	5.8	5.8	5.8
1955	2.2	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
1956	2.8	3.6	3.6	3.6	3.7	3.7	4.3	5.6	5.6	5.6	5.6	5.6	5.6
1957	2.1	2.7	2.8	2.8	2.8	3.1	3.6	3.7	3.8	4.1	4.2	5.3	5.3
1958	2.4	2.5	2.6	2.7	2.7	3.2	3.8	4.6	4.7	4.7	4.7	4.7	4.7
1959	3.0	4.2	4.2	4.2	4.2	4.2	4.8	4.8	4.7	5.6	7.0	8.3	8.3
1960	2.0	2.3	4.3	4.8	6.0	6.3	7.0	10.9	13.0	15.2	15.3	15.3	15.3
1961	1.1	1.3	1.8	1.8	1.8	1.8	2.5	2.5	2.5	2.5	2.6	2.6	2.6
1962	2.4	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.5	3.5	4.4	5.1	5.1
1963	3.6	4.3	4.3	4.4	4.4	4.4	5.5	5.5	5.7	6.4	6.6	7.0	7.0
1964	2.0	4.7	4.7	4.7	4.7	4.7	5.5	5.6	6.0	6.5	7.1	7.1	7.1
1965	2.7	3.6	3.6	3.6	3.6	3.6	3.8	3.8	3.8	4.0	4.5	7.0	8.3
1966	1.7	2.3	3.3	3.5	3.5	3.5	3.5	4.0	4.2	4.5	5.1	5.2	5.2
1967	1.3	1.8	1.8	1.8	1.8	1.8	2.5	3.0	3.5	3.5	4.4	6.5	6.2
1968	2.4	3.0	3.0	3.0	3.0	3.0	3.0	3.1	3.2	3.6	3.8	3.8	3.8
1969	2.3	2.8	2.8	2.8	2.8	2.9	3.6	5.2	5.2	5.2	5.2	5.2	5.2
1970	2.1	2.9	3.0	3.1	3.3	3.3	3.9	4.1	4.1	4.1	4.1	5.1	5.1
1971	1.6	2.1	2.5	2.8	3.4	4.6	5.7	5.7	5.7	5.7	5.7	6.1	6.1
1972	2.0	2.2	2.3	3.2	4.1	4.5	5.4	5.5	5.7	5.7	5.7	5.7	5.7
1973	1.8	1.9	2.1	2.4	3.3	3.4	3.4	3.4	3.4	3.4	3.5	3.9	4.4
1974	1.6	3.1	4.9	5.4	6.0	6.2	8.0	8.5	10.0	13.2	14.3	14.8	14.8
1975	1.6	2.2	2.8	2.9	3.2	3.3	4.8	5.3	5.3	5.3	5.3	5.3	5.3
1976	2.3	2.6	3.0	3.3	3.4	3.4	3.8	4.2	4.3	4.4	4.5	4.5	4.5
1977	2.3	2.6	3.0	3.4	3.4	3.4	3.4	3.4	4.3	4.4	4.5	4.5	4.5
1978	1.6	1.7	1.8	1.8	1.8	1.8	2.7	3.5	4.2	5.1	5.8	6.9	9.9
1979	1.6	1.7	1.8	1.8	1.9	1.9	2.7	3.5	4.2	5.1	5.8	6.9	9.9
1980	2.1	2.6	2.9	2.9	3.0	3.0	3.0	3.4	3.5	3.8	3.8	3.8	3.8
1981	2.2	3.1	3.4	3.4	3.4	3.5	6.2	6.2	6.5	6.5	6.5	6.5	6.5
1982	1.9	2.8	3.4	3.5	3.5	3.7	3.8	4.3	4.6	5.4	5.8	5.8	5.8
1983	2.5	2.0	2.9	3.0	3.0	3.0	3.1	3.1	3.1	3.9	4.3	4.4	4.4
1984	1.9	2.4	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.7	2.8
1985	1.8	2.5	2.8	3.2	4.1	4.2	4.5	5.6	5.9	6.1	6.3	6.7	6.7
1986	1.9	3.0	3.4	3.4	3.6	4.2	5.1	5.1	5.1	5.3	5.4	5.4	5.4
1987	1.7	2.3	2.9	3.4	3.6	3.8	3.8	4.1	4.3	4.4	4.4	4.4	4.4
1988	1.8	2.7	4.7	6.2	7.7	7.9	8.8	8.8	8.8	8.8	9.0	9.2	9.2
1989	2.3	2.4	2.5	2.6	2.6	2.6	3.6	4.1	4.5	4.5	4.6	4.6	4.6
1990	2.0	2.0	2.2	2.2	2.2	2.2	2.2	2.5	3.1	3.9	4.2	4.4	4.4
Mean Annual	2.10	2.84	3.30	3.53	3.79	3.89	4.53	5.01	5.25	5.63	5.87	6.26	6.41
Maximum	3.6	5.0	7.5	9.8	10.5	10.7	10.8	12.2	13.6	15.7	15.8	15.8	15.8

(all volumes in inches)

St. Lucie

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	192 hr	240 hr
1942	2.0	2.5	2.7	3.5	4.7	4.9	6.1	7.1	7.3	7.3	7.7	10.2	10.7
1943	2.0	3.2	3.2	3.2	3.2	3.2	3.4	4.4	4.4	4.7	4.7	4.9	4.9
1944	2.3	3.4	4.0	4.1	4.1	4.1	4.6	7.4	7.7	9.4	10.7	10.7	10.7
1945	1.8	1.8	2.3	3.4	4.7	4.7	4.8	4.9	4.9	4.9	4.9	4.9	4.9
1946	1.8	2.3	3.2	3.2	4.2	4.2	4.2	4.3	4.3	5.1	5.1	6.8	8.5
1947	2.4	3.5	5.5	6.0	6.8	7.4	9.9	10.2	10.7	11.3	11.4	11.4	11.4
1948	1.2	2.2	2.2	2.2	2.7	2.9	4.5	4.9	5.0	5.8	5.8	6.2	9.3
1949	1.6	2.1	2.3	2.6	6.9	7.0	9.1	9.3	9.5	9.6	9.6	9.6	9.6
1950	2.8	3.0	3.8	4.3	4.6	4.7	5.5	5.9	6.3	7.9	8.5	8.5	8.5
1951	1.4	2.4	4.2	4.8	6.1	6.4	7.3	7.5	7.7	8.5	10.0	10.8	10.8
1952	1.7	2.6	3.6	3.9	4.1	4.1	4.3	4.3	4.3	5.2	5.5	8.9	9.1
1953	1.8	3.0	3.9	4.0	4.0	4.0	4.0	4.2	5.4	5.6	5.6	6.8	6.9
1954	2.0	2.2	2.2	2.2	2.2	2.2	3.2	4.1	5.0	5.8	5.9	6.3	6.4
1955	1.7	2.1	2.4	2.6	3.1	3.3	3.7	3.7	3.9	3.9	3.9	3.9	3.9
1956	1.8	2.1	2.1	2.1	2.1	2.1	2.1	2.4	2.5	3.1	3.3	4.8	4.8
1957	1.8	2.0	2.4	2.6	2.8	2.9	3.1	3.1	3.1	3.1	3.1	3.1	7.1
1958	1.0	1.2	1.6	1.7	1.8	1.8	2.9	3.1	3.2	3.3	3.7	4.1	4.1
1959	2.5	8.1	8.7	9.1	9.6	9.8	9.6	9.7	9.7	10.5	10.5	10.5	10.5
1960	3.1	11.8	11.8	11.8	11.8	11.8	11.8	12.6	12.6	13.4	13.8	14.4	14.4
1961	1.5	2.4	2.9	3.2	3.3	3.7	4.9	5.4	5.7	6.1	6.6	8.6	8.6
1962	2.7	2.7	3.0	3.0	3.2	3.2	3.4	4.2	4.3	5.2	6.2	7.3	7.3
1963	3.0	3.0	3.0	3.5	3.7	3.7	5.4	6.0	6.0	6.0	6.0	6.0	6.0
1964	2.5	4.5	5.5	5.8	5.9	5.9	5.9	5.9	5.9	6.1	6.1	6.1	6.1
1965	2.5	3.2	3.5	3.7	3.7	3.7	3.7	3.8	3.8	3.9	6.3	6.5	6.5
1966	1.8	2.6	3.5	3.6	4.2	4.6	5.3	5.3	5.7	5.7	6.8	7.0	7.0
1967	1.9	3.0	3.2	3.3	3.3	3.3	4.0	5.2	5.2	5.2	5.2	5.6	5.6
1968	3.2	4.6	6.3	5.4	5.5	5.7	5.9	7.2	7.6	7.9	8.0	8.0	8.0
1969	2.0	3.4	4.1	4.2	4.3	4.3	5.6	5.9	5.9	6.7	6.7	6.7	6.7
1970	2.6	3.3	5.1	6.3	7.3	7.3	8.7	9.1	9.1	9.1	9.1	9.1	9.1
1971	1.7	3.3	4.1	4.4	4.4	4.4	5.6	8.2	9.6	9.7	9.7	9.7	9.7
1972	3.1	4.8	6.0	6.3	6.8	7.5	8.9	9.0	9.0	11.6	11.6	13.0	13.0
1973	3.6	4.2	4.3	4.3	4.3	4.3	4.3	5.4	5.4	5.4	5.6	5.6	5.6
1974	2.0	2.1	2.2	2.2	2.2	2.2	3.0	3.1	3.3	3.9	4.1	5.1	6.0
1975	3.9	3.9	3.9	3.9	3.9	3.9	4.0	5.4	5.4	5.9	5.9	5.9	5.9
1976	3.0	3.7	3.9	3.9	3.9	3.9	4.2	4.2	4.3	4.4	4.5	4.5	4.5
1977	2.4	3.9	5.1	5.2	5.2	5.2	5.4	6.0	7.4	8.4	8.6	10.1	10.8
1978	1.3	1.9	2.0	2.0	2.0	2.0	2.0	2.7	2.9	4.1	4.5	5.0	5.0
1979	1.1	1.6	1.7	2.2	3.0	3.4	5.4	5.9	6.2	7.0	7.1	7.3	7.3
1980	1.1	2.3	2.5	2.6	3.1	3.3	3.4	3.5	3.5	4.0	4.0	4.0	4.0
1981	2.4	3.9	4.0	4.0	4.1	4.1	4.1	4.1	5.3	5.8	5.8	5.8	5.8
1982	1.6	2.8	5.2	6.2	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
1983	2.8	3.4	3.6	3.6	3.6	3.6	3.6	6.2	6.2	6.2	6.2	6.2	6.2
1984	2.1	2.3	2.6	3.4	3.6	3.6	3.6	4.4	5.7	6.4	6.5	6.5	6.5
1985	2.3	2.8	3.2	4.6	5.0	5.3	5.8	6.2	6.6	6.9	7.4	8.6	8.9
1986	1.5	2.2	2.4	3.8	4.2	4.3	4.7	4.7	4.7	4.8	5.2	7.6	8.9
1987	1.8	2.7	3.7	3.8	4.1	4.2	4.9	5.2	6.1	6.2	6.2	6.2	6.2
1988	1.3	1.9	2.4	2.6	2.7	2.7	2.9	2.9	3.2	3.2	3.2	4.0	4.0
1989	1.4	1.6	2.2	2.6	2.6	2.6	2.6	3.3	3.3	3.6	4.1	4.1	4.1
1990	1.9	2.4	2.5	3.1	3.3	3.3	4.5	4.7	4.7	4.7	5.0	5.0	5.0
Mean Annual	2.09	3.10	3.66	3.96	4.34	4.43	5.03	5.58	5.86	6.34	6.66	7.26	7.50
Maximum	3.9	11.8	11.8	11.8	11.8	11.8	11.8	12.6	12.6	13.4	13.8	14.4	14.4

(all volumes in inches)

St. Petersburg

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1946	1.7	2.9	4.6	4.8	4.8	4.8	5.1	5.1	5.1	5.1	5.1	5.1	5.1
1947	1.9	2.6	2.6	3.0	3.7	3.7	4.8	6.4	7.3	7.5	7.6	7.6	7.6
1948	1.9	2.3	2.7	2.9	3.1	3.1	3.2	4.1	4.4	4.7	4.7	4.7	4.7
1949	1.9	2.4	2.8	4.0	4.7	4.8	5.7	6.4	6.7	7.2	7.2	8.4	8.4
1950	1.9	1.9	2.2	2.5	2.5	2.5	3.0	3.6	3.6	3.8	3.8	4.9	4.9
1951	2.1	2.4	3.0	3.5	4.0	4.2	5.1	6.1	7.0	7.3	7.4	7.4	7.4
1952	1.7	2.5	2.7	2.8	3.0	3.0	4.0	5.2	5.5	6.0	6.3	6.5	8.5
1953	1.7	3.6	3.8	3.8	4.3	4.3	4.7	4.7	4.7	5.3	5.9	5.9	5.9
1954	1.9	2.1	2.8	3.0	3.6	3.6	3.8	3.8	3.8	4.2	4.2	4.2	4.2
1955	2.4	3.7	4.5	4.5	4.6	4.6	5.4	5.4	5.6	5.6	6.3	6.7	6.8
1956	1.0	1.3	1.6	1.7	1.7	1.7	1.8	1.9	2.3	2.8	3.0	3.4	3.4
1957	2.7	2.8	3.2	3.7	3.7	3.8	4.4	4.5	4.5	4.7	4.7	4.7	5.1
1958	1.3	1.5	2.0	2.6	3.5	3.8	4.1	4.1	4.2	4.4	4.6	5.3	6.1
1959	2.6	3.2	3.4	4.1	5.2	5.7	6.0	6.8	7.0	7.3	7.4	7.4	7.4
1960	2.0	2.1	2.8	4.1	5.6	6.0	7.9	8.7	8.1	11.1	12.3	13.1	13.2
1961	1.8	2.7	2.8	2.8	2.8	2.8	2.8	2.8	3.1	3.1	3.1	3.1	3.1
1962	1.5	2.6	2.8	3.1	3.8	4.5	6.4	7.1	7.2	8.1	8.5	8.0	8.0
1963	1.4	1.8	2.2	2.6	3.1	3.1	4.5	4.5	4.8	5.4	5.0	5.3	5.3
1964	1.6	1.8	2.2	2.6	3.6	3.6	4.1	4.2	4.2	5.4	5.7	5.7	5.7
1965	1.2	1.7	2.4	2.7	3.0	3.1	3.3	4.0	5.3	7.2	7.7	9.7	9.8
1966	1.4	1.5	1.5	2.3	2.5	2.7	2.8	2.9	2.9	2.9	2.9	2.9	2.9
1967	1.7	1.8	2.4	2.7	2.9	2.9	4.4	5.8	6.8	7.5	8.0	8.5	8.5
1968	1.9	2.6	4.1	5.1	5.1	5.2	5.4	6.5	6.5	6.5	6.5	6.5	6.5
1969	1.8	3.2	3.8	3.9	3.9	3.9	3.9	4.1	4.1	4.1	4.1	4.1	4.1
1970	1.3	1.6	1.7	1.7	1.7	1.7	2.7	2.7	2.7	2.8	2.8	2.8	2.8
1971	1.8	2.1	3.3	3.4	3.7	4.2	4.9	5.2	6.5	7.3	10.0	11.9	11.9
1972	1.6	2.0	2.3	2.6	2.7	2.7	2.7	3.4	3.4	3.4	3.4	3.4	3.4
1973	1.9	2.6	2.8	2.9	2.9	2.9	2.9	4.0	4.0	4.0	4.0	4.0	4.0
1974	3.1	3.4	3.6	3.6	3.6	3.6	3.6	3.9	5.9	6.0	6.2	6.7	6.7
1975	1.5	1.6	2.1	2.9	3.6	3.6	4.2	4.6	5.3	5.7	5.7	5.7	5.7
1976	2.9	3.4	4.0	4.1	4.4	4.5	4.9	4.9	4.9	4.9	4.9	4.9	4.9
1977	1.4	2.5	2.8	2.8	2.8	2.8	2.9	2.9	3.1	3.1	3.1	3.1	3.1
1978	1.6	2.1	2.2	2.2	2.2	2.2	2.7	2.7	2.7	3.0	3.0	3.0	3.0
1979	2.2	2.3	4.5	5.2	7.6	7.7	7.8	8.3	8.3	8.3	8.3	9.6	9.6
1980	2.5	3.0	3.2	3.2	4.3	4.6	4.7	5.6	5.6	5.7	6.0	6.0	6.0
1981	2.1	3.0	3.1	3.1	3.1	3.1	5.0	5.6	6.2	6.2	6.8	7.0	7.0
1982	1.6	2.3	2.8	3.2	3.6	4.1	5.0	5.2	5.2	5.2	5.2	6.5	6.5
1983	1.2	1.8	2.1	2.5	2.5	2.5	2.8	2.9	3.0	3.1	3.2	3.6	3.8
1984	1.5	4.2	4.2	4.2	4.2	4.2	4.2	4.7	4.7	4.7	4.7	4.7	4.7
1985	1.7	2.7	2.7	2.7	2.7	2.7	3.5	4.7	5.6	5.9	7.4	7.4	7.4
1986	3.7	6.7	9.7	10.4	10.4	10.7	11.7	12.8	12.8	12.8	12.8	12.8	12.8
1987	2.7	4.6	4.6	4.6	6.2	6.2	6.7	6.7	6.7	6.7	6.7	6.7	6.7
1988	2.0	6.9	6.9	6.9	6.9	6.9	10.1	10.7	11.7	15.2	16.4	16.4	16.4
1989	1.9	2.9	3.0	3.0	3.0	3.0	3.2	3.4	3.6	3.6	3.7	3.8	3.8
1990	1.2	1.4	1.6	1.7	2.1	2.1	2.5	2.5	2.7	2.7	2.7	3.2	3.2
Mean Annual	1.66	2.69	3.16	3.46	3.86	3.96	4.56	5.02	5.35	5.76	6.04	6.37	6.40
Maximum	3.7	6.9	9.7	10.4	10.4	10.7	11.7	12.8	12.8	15.2	16.4	16.4	16.4

(all volumes in inches)

Tallahassee

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1958	1.6	2.3	2.6	2.6	2.6	2.6	2.6	3.2	3.7	4.0	4.0	4.6	4.6
1959	2.0	2.2	2.7	3.1	4.3	4.5	6.0	6.0	6.6	7.4	7.4	7.4	7.8
1960	1.4	2.5	3.8	3.9	3.9	3.9	4.5	4.5	4.8	6.3	6.3	6.3	6.3
1961	1.7	1.7	1.7	1.8	2.7	2.8	3.4	4.6	5.2	5.7	5.7	5.7	5.7
1962	1.9	2.6	4.0	4.8	7.0	7.1	7.2	7.2	7.2	7.2	7.2	7.2	7.2
1963	1.6	1.8	3.0	3.3	3.5	3.7	4.0	4.3	4.5	4.5	4.5	4.5	4.5
1964	3.2	5.0	5.5	6.2	7.5	7.8	9.3	9.8	9.9	10.1	10.2	10.2	10.2
1965	2.9	3.7	3.9	4.0	5.1	5.2	5.3	6.0	6.0	6.6	7.1	7.6	7.6
1966	1.2	2.0	3.6	4.5	5.4	5.5	6.8	6.9	6.9	6.9	6.9	7.7	7.7
1967	1.4	1.8	2.0	2.3	2.8	2.9	3.2	3.3	3.4	3.4	3.4	3.4	3.4
1968	4.8	5.7	5.7	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
1969	2.3	3.8	4.9	5.7	6.2	6.5	9.5	12.9	13.2	13.6	13.8	13.8	13.8
1970	3.5	5.1	6.8	7.2	7.3	7.3	8.2	8.2	8.2	8.2	8.2	8.2	8.2
1971	1.8	2.2	2.2	3.4	3.4	3.4	3.6	3.6	3.6	4.3	5.5	6.3	7.9
1972	2.8	3.0	3.2	3.4	3.7	4.2	6.4	7.1	7.2	7.2	7.2	7.2	7.2
1973	2.0	2.3	2.5	2.8	3.2	3.2	4.7	4.7	6.9	7.8	8.8	8.8	8.8
1974	1.7	2.2	2.4	3.2	3.5	3.6	5.1	5.7	6.3	6.4	6.6	7.2	7.2
1975	1.9	2.6	3.3	3.4	4.0	4.0	5.2	8.0	8.8	9.2	9.3	9.4	9.7
1976	1.9	2.5	3.3	3.4	3.5	4.8	5.0	6.2	7.9	9.0	9.0	9.0	9.0
1977	2.2	2.4	2.7	2.8	2.8	2.8	3.0	3.2	3.4	3.7	4.2	7.0	7.0
1978	1.8	2.3	3.5	3.9	4.0	4.0	4.9	5.0	5.0	5.0	5.0	5.1	5.5
1979	2.0	2.8	3.1	3.7	4.1	4.2	4.5	5.3	7.4	7.5	7.5	7.5	7.5
1980	1.3	1.9	2.8	3.5	3.5	3.5	5.7	6.5	7.2	7.2	7.7	8.8	8.8
1981	2.0	3.2	5.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
1982	1.8	1.9	3.1	3.9	4.3	4.4	5.5	5.8	5.8	5.8	5.8	5.8	5.8
1983	1.8	3.0	3.7	3.8	3.8	3.8	4.7	6.4	6.4	6.4	6.4	6.4	6.4
1984	2.3	2.7	3.2	3.3	3.4	3.7	3.9	3.9	3.9	3.9	3.9	5.0	5.0
1985	1.6	1.6	1.9	2.4	3.1	3.3	4.5	5.8	7.0	7.2	7.3	7.8	7.8
1986	2.6	3.9	3.9	3.9	3.9	3.9	3.9	3.9	4.1	5.4	5.5	8.2	8.2
1987	1.9	3.1	3.6	4.2	4.3	4.3	4.3	4.4	6.1	6.7	6.7	6.7	6.7
1988	1.8	2.2	3.0	3.5	3.8	4.0	5.6	5.6	5.7	6.1	6.1	6.1	6.1
1989	1.6	1.8	2.8	3.6	3.6	3.6	4.6	4.6	4.6	5.2	6.4	7.2	7.5
1990	2.4	2.4	2.5	2.7	2.8	2.8	2.9	3.0	3.0	3.0	3.0	3.0	3.0
Mean Annual	2.08	2.73	3.39	3.84	4.23	4.36	5.17	5.70	6.13	6.47	6.64	7.02	7.11
Maximum	4.8	5.7	6.8	7.2	7.5	7.8	9.5	12.9	13.2	13.6	13.8	13.8	13.8

(all volumes in inches)

Tampa

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1948	1.1	1.5	1.9	1.9	2.0	2.0	2.5	3.4	4.2	4.2	4.2	6.0	6.5
1949	1.8	2.0	2.6	3.2	4.0	4.4	5.3	5.7	5.9	6.0	6.0	6.0	8.0
1950	2.3	2.8	2.8	3.0	3.2	3.6	4.7	6.0	6.5	7.6	7.7	7.7	8.0
1951	1.8	2.0	2.4	2.5	2.9	3.0	3.9	4.5	4.5	4.6	4.6	4.6	4.6
1952	1.4	1.8	2.1	2.2	2.2	2.2	3.1	3.8	4.2	4.3	4.3	4.3	4.3
1958	1.4	2.2	2.2	2.2	2.4	2.4	2.4	2.7	2.7	3.1	4.4	5.2	5.6
1959	1.6	2.3	2.3	2.4	3.1	3.4	3.7	4.3	4.3	5.0	6.5	7.2	7.2
1960	2.9	3.0	5.5	6.3	8.1	8.8	12.1	14.0	14.0	14.6	15.9	15.9	15.9
1961	1.1	1.1	2.0	2.1	2.5	2.7	2.9	2.9	2.9	3.3	3.8	3.9	3.9
1962	1.4	1.5	1.7	1.8	2.7	3.1	4.3	4.5	4.7	4.8	4.8	4.8	4.8
1963	1.4	2.6	2.9	3.2	3.9	4.1	4.2	4.2	4.7	4.7	4.7	4.7	5.1
1964	1.4	1.8	2.6	3.1	3.9	4.0	4.1	5.4	5.4	5.8	6.1	6.2	6.2
1965	1.5	1.9	2.1	2.2	2.3	2.3	2.6	4.1	4.5	5.5	5.5	5.8	5.8
1966	1.4	1.4	2.2	2.6	2.9	3.0	3.3	4.1	4.2	4.8	5.7	5.7	5.7
1967	1.5	2.2	2.5	2.8	3.1	3.2	5.1	5.8	5.9	6.4	6.5	6.6	6.6
1968	1.3	1.7	1.7	2.2	2.4	2.5	2.5	2.9	3.1	3.7	3.7	3.8	5.8
1969	1.8	2.4	2.4	2.6	3.1	3.1	3.3	3.5	3.5	4.4	4.4	4.7	4.8
1970	1.0	1.1	1.5	1.8	2.4	2.5	2.8	3.2	3.2	3.3	3.3	3.6	3.6
1971	1.8	3.1	3.1	3.1	3.1	3.3	4.4	4.5	5.1	6.0	6.0	6.0	6.0
1972	2.5	3.1	3.4	3.4	3.4	3.4	3.4	3.6	3.6	3.6	3.6	3.6	3.6
1973	1.5	1.7	1.7	2.8	3.1	3.2	3.2	3.2	3.2	3.4	3.4	3.9	3.9
1974	1.2	1.4	1.8	2.2	2.9	3.2	5.5	5.7	6.7	9.1	9.5	10.4	10.4
1975	1.8	3.1	3.1	3.1	3.1	3.1	3.1	3.2	3.2	3.2	3.2	3.2	3.2
1976	1.9	3.1	3.4	3.6	3.7	3.7	4.1	4.2	4.2	4.2	4.2	4.2	4.2
1977	0.9	0.8	1.2	1.2	1.3	1.3	1.9	2.1	2.1	2.2	2.7	3.1	3.1
1978	0.9	1.6	1.6	1.6	2.0	2.0	2.2	2.2	2.8	3.1	3.1	3.5	3.5
1979	2.2	3.2	6.2	8.1	10.7	11.3	11.8	12.5	12.8	13.0	13.5	13.7	13.7
1980	1.3	1.3	1.6	2.2	2.4	2.4	2.4	2.4	2.4	2.4	2.5	3.5	3.5
1981	1.9	3.0	3.0	3.1	3.1	3.1	3.7	4.1	4.8	4.8	4.8	4.8	4.8
1982	2.3	3.3	3.4	3.9	3.9	3.9	3.9	4.6	4.6	4.9	5.8	5.6	5.6
1983	1.5	1.9	2.0	2.5	3.9	3.9	3.9	3.9	3.9	3.9	3.9	4.1	4.7
1984	1.7	2.1	2.4	2.5	2.5	2.5	2.6	2.6	2.7	2.8	3.1	3.2	3.2
1985	3.0	4.3	4.4	4.4	4.4	4.4	4.5	4.9	5.0	6.7	7.7	8.1	8.7
Mean Annual	1.65	2.19	2.60	2.90	3.35	3.48	4.04	4.51	4.71	5.13	5.42	5.68	5.83
Maximum	3.0	4.3	6.2	8.1	10.7	11.3	12.1	14.0	14.0	14.6	15.9	15.9	15.9

(all volumes in inches)

Venice

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1942	1.3	2.5	3.2	3.3	3.8	3.9	4.0	4.0	4.0	4.7	5.0	5.0	5.0
1943	2.0	3.2	3.2	3.4	4.2	4.2	6.1	6.3	6.6	7.1	7.1	7.1	7.1
1944	1.2	1.8	2.5	2.5	2.7	2.7	2.9	3.5	3.5	3.5	3.6	3.6	3.6
1945	1.9	2.7	2.8	3.4	5.0	5.9	7.2	8.6	9.3	9.3	9.3	9.3	9.3
1946	1.3	1.7	2.4	2.4	2.4	2.4	2.4	2.5	2.5	3.4	3.9	4.0	4.0
1947	2.5	2.8	3.0	3.1	3.5	3.7	5.0	5.1	5.2	5.2	5.5	8.9	8.9
1948	1.7	1.8	1.8	1.9	2.6	2.9	4.5	4.5	4.5	4.5	4.5	4.5	4.5
1949	1.7	3.2	3.2	3.8	4.7	4.7	4.7	4.7	5.0	5.0	5.0	5.0	5.0
1950	1.5	2.2	2.2	2.2	3.1	3.4	4.5	4.8	4.9	5.3	5.4	5.4	5.4
1951	1.3	2.3	2.3	2.3	2.3	2.4	2.7	2.9	2.9	3.7	3.7	3.7	3.7
1952	1.6	2.7	2.7	3.3	3.6	3.6	3.8	3.8	3.8	3.8	3.8	3.8	3.8
1953	2.4	3.0	3.4	3.7	3.9	4.0	5.2	5.5	5.6	6.4	6.9	8.3	9.0
1954	2.4	3.2	3.2	3.2	3.2	3.2	3.4	3.7	3.9	4.1	4.6	5.1	6.1
1955	0.6	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
1956	2.0	2.7	2.9	3.0	3.1	3.1	3.1	3.6	3.6	3.8	3.8	4.3	4.3
1957	2.0	2.8	3.8	4.0	6.3	5.3	5.3	6.6	6.6	6.9	7.0	7.0	7.0
1958	1.9	2.3	2.5	2.6	3.4	3.6	4.0	4.0	4.0	4.0	4.0	4.0	4.0
1959	1.8	2.5	3.6	3.6	3.6	3.6	3.8	4.3	4.4	4.5	4.7	4.9	4.9
1960	1.5	2.3	2.3	2.3	2.5	3.1	3.6	4.6	6.4	6.4	6.6	6.6	6.6
1961	1.8	2.9	2.9	2.9	2.9	2.9	3.0	3.0	3.0	3.2	3.4	3.4	3.4
1962	2.2	3.4	3.5	3.8	4.0	4.6	5.9	7.1	7.8	7.8	7.8	7.8	7.8
1963	1.7	2.0	2.6	3.2	3.7	3.8	4.0	4.1	4.9	5.0	5.4	6.9	7.8
1964	1.0	1.7	2.0	2.1	2.1	2.1	2.8	3.4	3.5	3.5	3.5	3.5	3.5
1965	1.8	1.8	1.9	2.0	3.0	3.1	3.5	4.6	4.7	4.9	6.0	6.2	6.2
1966	1.3	1.6	2.1	2.2	2.3	2.4	2.4	2.8	2.8	3.3	3.3	3.3	3.3
1967	2.5	2.9	3.3	3.4	4.4	4.5	5.8	6.0	6.3	6.3	6.3	6.3	6.3
1968	1.9	2.4	2.7	3.1	4.1	4.6	6.3	6.3	6.3	6.3	6.3	6.3	6.3
1969	1.9	3.5	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
1970	1.5	1.8	2.2	2.6	2.7	3.1	3.3	3.3	3.6	4.0	4.2	4.3	4.3
1971	2.0	2.1	2.6	3.1	3.2	3.2	3.2	3.6	4.5	5.0	6.2	7.0	7.0
1972	1.8	2.4	2.1	2.4	3.1	3.2	3.6	3.6	4.0	4.3	4.3	4.3	4.3
1973	1.8	2.0	2.1	2.1	2.1	2.4	3.2	3.8	3.8	3.8	3.8	4.2	4.2
1974	2.2	2.4	2.6	2.7	2.8	3.0	3.9	4.2	4.3	5.8	6.3	6.3	6.3
1975	1.5	1.7	1.9	1.9	1.9	1.9	3.5	3.7	3.8	4.2	5.7	7.3	7.4
1976	1.3	1.7	2.2	2.2	2.2	2.2	2.9	3.0	3.7	3.8	3.9	4.0	4.0
1977	1.3	1.9	2.0	2.1	3.0	3.3	3.8	4.1	4.1	4.1	4.6	4.6	4.6
1978	1.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.7	3.7	3.9	3.9	3.9
1979	1.5	1.7	2.0	2.5	3.1	3.2	3.3	3.5	3.8	4.7	5.0	5.3	5.3
1980	2.1	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.6	5.3	6.3	6.3
1981	3.4	4.1	4.3	5.0	5.0	5.0	6.0	6.0	7.0	7.5	8.2	8.2	8.2
1982	2.2	2.9	3.0	3.4	5.4	6.0	8.0	8.1	8.1	8.3	8.3	8.3	8.3
1983	1.9	2.6	3.0	3.2	3.2	3.3	3.3	3.6	4.0	4.9	5.5	6.9	6.9
1984	2.4	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
1985	1.7	2.4	2.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
1986	2.0	2.4	2.6	2.6	2.6	2.9	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1987	2.1	3.0	3.7	3.8	3.8	3.8	4.0	4.8	5.6	6.0	6.0	6.0	6.0
1988	1.9	2.5	2.8	2.8	3.1	3.3	4.3	5.8	6.8	7.9	8.4	8.4	8.4
1989	2.1	2.2	2.3	2.4	2.4	2.4	2.5	3.1	3.3	4.0	4.7	4.9	4.9
1990	1.2	2.2	3.0	3.5	4.2	4.3	4.3	4.8	4.7	4.7	4.7	4.7	4.7
Mean Annual	1.80	2.54	2.80	2.97	3.34	3.48	4.07	4.40	4.66	4.86	5.25	5.50	5.54
Maximum	3.4	4.6	4.6	5.0	5.4	6.0	8.0	8.6	9.2	9.3	9.3	9.3	9.3

(all volumes in inches)

Venus

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1942	2.5	2.7	2.7	2.7	2.7	2.7	3.3	4.7	4.8	4.8	4.8	4.8	4.8
1943	1.4	1.5	2.1	2.1	2.1	2.2	3.3	3.6	3.8	3.8	3.8	3.8	3.8
1944	1.9	2.0	2.5	2.5	2.5	2.5	3.9	4.0	4.7	5.6	7.4	9.1	9.3
1945	1.9	2.9	4.5	4.8	5.2	5.2	6.4	6.5	6.5	6.7	6.7	6.7	6.7
1946	0.9	1.3	1.6	1.7	1.8	1.9	2.4	2.4	2.4	2.4	2.4	2.4	2.4
1947	2.4	2.4	2.5	2.9	4.1	4.5	7.3	7.6	8.0	8.0	8.0	8.0	8.0
1948	1.4	1.4	1.8	2.9	3.7	3.8	6.4	7.2	7.9	8.7	8.7	8.7	8.7
1949	2.0	2.3	2.6	2.7	3.9	3.9	4.6	4.6	4.8	5.1	5.8	6.1	6.1
1950	1.8	2.1	2.1	2.1	2.1	2.1	2.2	2.3	2.7	3.3	4.0	4.0	4.0
1951	2.3	3.9	4.8	5.8	6.4	9.3	11.6	11.7	13.6	14.8	15.1	15.3	15.3
1952	2.0	2.3	2.4	2.4	2.4	2.4	3.1	3.2	3.8	3.8	4.3	4.3	4.3
1953	2.5	3.7	4.6	4.7	4.7	4.7	4.8	7.8	7.8	7.8	7.8	7.8	7.8
1954	1.3	1.7	2.2	2.5	2.5	2.5	2.9	3.6	4.0	4.0	4.1	4.1	4.1
1955	2.1	3.0	3.2	3.2	3.2	3.2	3.3	4.2	4.2	4.2	4.2	4.2	4.2
1956	2.3	2.9	2.9	2.9	2.9	2.9	2.9	3.6	4.3	4.3	4.3	5.2	5.2
1957	2.5	3.4	3.8	3.9	3.9	4.0	4.8	4.7	5.1	5.7	5.8	6.8	6.8
1958	1.8	5.4	5.4	5.4	5.4	5.4	5.4	5.5	5.5	5.7	6.6	7.3	7.3
1959	2.3	4.5	5.5	5.6	5.8	6.1	6.2	6.2	6.2	6.2	6.2	6.2	6.2
1960	2.3	2.8	2.7	2.7	2.7	2.7	2.7	4.0	4.0	4.0	4.0	4.0	4.0
1961	2.3	2.8	2.7	2.7	2.7	2.7	2.7	4.0	4.0	4.0	4.0	4.0	4.0
1962	2.1	2.8	2.8	2.6	3.0	3.2	4.5	4.5	5.6	6.1	6.1	6.1	6.6
1963	1.5	2.0	3.0	3.4	3.5	3.5	3.5	3.5	4.4	4.4	4.4	4.4	4.4
1964	2.2	2.3	2.3	2.3	2.6	2.6	3.2	3.6	3.7	3.8	3.8	4.1	4.1
1965	2.2	2.8	2.6	2.6	2.6	2.6	2.9	3.4	3.6	4.2	5.6	6.0	6.0
1966	1.6	2.1	2.2	2.2	2.5	2.5	3.2	3.3	3.3	4.3	5.4	7.7	9.0
1967	2.1	2.4	2.4	2.4	2.5	2.5	3.8	3.8	4.6	4.8	5.1	5.7	5.7
1968	1.9	2.7	3.0	3.1	3.1	3.1	4.0	4.4	4.8	5.1	5.4	5.6	5.8
1969	1.8	2.1	2.4	2.4	2.5	2.5	2.8	3.2	3.2	3.5	3.8	5.8	6.9
1970	2.7	3.6	3.6	3.7	3.7	3.7	5.9	9.0	9.0	9.0	9.0	9.0	9.0
1971	2.8	2.9	3.0	3.0	3.0	3.0	3.3	3.5	4.9	5.2	6.1	6.7	6.7
1972	2.4	2.8	2.8	3.1	3.8	3.8	4.8	5.6	5.8	5.8	6.0	6.5	8.8
1973	1.7	1.8	2.3	2.7	2.8	2.8	2.8	2.8	2.9	2.9	2.9	2.9	2.9
1974	1.8	2.2	2.6	2.7	2.7	2.7	4.1	4.7	4.8	5.0	7.3	7.3	7.3
1975	1.5	1.6	2.3	2.3	2.3	2.3	2.3	2.5	2.7	2.9	3.2	3.3	3.3
1976	2.3	3.3	3.7	3.7	3.7	3.7	3.7	4.7	4.8	4.9	7.4	7.5	7.5
1977	2.0	2.5	2.6	2.6	2.6	2.6	2.7	3.4	3.4	3.4	3.4	3.4	3.4
1978	2.0	3.4	4.3	4.3	4.3	4.3	4.3	4.7	4.7	5.0	5.0	5.9	8.0
1979	2.3	2.7	2.7	2.7	2.7	2.7	2.9	2.9	2.9	4.2	5.1	5.1	5.1
1980	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.6	3.1	3.1
1981	2.2	2.4	2.5	2.5	2.7	2.7	3.5	3.6	3.6	3.6	3.6	3.6	3.6
1982	2.3	2.4	2.5	2.5	3.0	3.3	4.7	5.7	5.8	5.9	5.9	6.8	6.8
1983	1.9	2.1	3.1	3.1	3.4	3.4	3.5	3.6	3.6	3.8	4.0	4.0	4.0
1984	1.5	1.8	2.0	2.0	2.0	2.0	2.1	2.5	3.2	3.2	3.7	3.9	3.9
1985	2.0	3.4	3.5	3.5	3.5	3.5	4.5	4.5	4.6	4.7	5.5	6.0	6.0
1986	2.4	4.2	4.4	4.4	4.4	4.4	4.4	4.9	5.0	5.0	5.0	5.3	5.3
1987	2.5	2.8	3.8	5.0	5.5	5.6	5.8	5.7	6.4	7.2	7.2	7.2	7.2
1988	1.5	1.9	2.2	2.4	2.4	2.4	2.5	2.8	2.9	3.5	4.0	4.5	4.5
1989	2.9	4.1	4.2	4.2	4.2	4.2	4.3	5.3	5.3	5.6	6.0	6.0	6.0
1990	2.1	3.1	3.3	3.3	3.3	3.3	3.5	3.8	3.8	4.6	4.8	4.9	4.9
Mean Annual	2.04	2.67	2.99	3.13	3.34	3.39	4.00	4.50	4.78	5.06	5.44	5.74	5.92
Maximum	2.9	5.4	5.5	5.8	6.4	9.3	11.5	11.7	13.6	14.8	15.1	15.3	15.3

(all volumes in inches)

Vero Beach

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1942	1.0	1.9	2.4	2.7	2.7	3.0	3.9	4.7	4.8	4.8	4.8	5.9	5.9
1943	2.2	2.4	2.4	2.5	2.5	2.5	3.6	4.5	4.9	5.3	5.3	5.3	5.3
1944	3.0	5.3	6.4	6.5	6.7	6.7	7.3	7.7	7.9	9.0	10.2	10.2	10.2
1945	2.5	2.9	3.0	3.0	3.0	3.0	3.0	3.8	3.8	3.8	3.8	3.8	3.8
1946	1.4	2.5	3.1	3.3	3.3	3.3	4.1	4.2	4.2	4.4	4.7	4.7	4.7
1947	2.2	2.4	2.5	2.8	3.0	3.3	4.1	5.2	5.8	6.3	6.3	6.4	6.4
1948	2.7	3.2	3.3	3.3	3.3	3.3	5.1	5.3	5.6	5.9	5.9	5.9	5.9
1949	1.8	3.0	3.3	3.3	3.3	3.3	3.7	4.0	6.7	6.7	6.7	6.7	6.7
1950	1.3	1.9	2.6	3.3	3.8	3.9	4.2	5.9	8.0	8.7	8.9	9.7	9.7
1951	1.4	1.6	3.9	4.4	4.8	5.0	5.3	5.3	5.3	9.4	10.0	10.4	10.4
1952	1.3	1.9	1.9	2.1	2.3	2.4	3.0	3.3	3.5	3.8	4.6	6.0	7.1
1953	2.0	2.8	3.2	3.5	3.6	3.6	4.2	5.0	5.3	6.0	6.2	6.2	6.2
1954	2.2	2.8	2.7	2.7	3.5	3.5	3.5	3.6	3.7	4.5	5.9	6.1	6.1
1955	1.3	1.4	1.7	1.7	2.1	2.3	2.4	2.4	2.4	2.6	3.2	3.2	3.2
1956	1.8	2.1	4.2	4.4	4.6	4.7	6.4	6.5	6.6	6.8	7.0	7.0	7.0
1957	4.8	6.3	7.8	8.3	8.4	8.5	8.7	8.7	8.7	8.7	8.7	8.7	8.7
1958	1.6	1.8	2.1	2.7	3.7	4.5	5.0	6.4	6.6	7.2	7.2	7.6	7.6
1959	1.6	2.3	4.0	4.2	5.5	5.6	6.0	6.3	9.5	10.2	11.4	11.5	11.5
1960	1.4	1.9	2.0	2.1	2.1	2.1	2.1	2.2	2.5	2.5	2.5	2.5	2.5
1961	1.4	1.9	2.0	2.0	2.2	2.5	2.8	2.8	2.8	2.8	3.3	3.7	3.7
1962	1.6	1.8	2.0	2.0	2.2	2.5	2.8	2.8	2.8	2.8	3.3	3.7	3.7
1963	2.0	2.4	2.6	3.2	4.8	5.0	6.2	6.6	7.7	9.3	9.4	9.4	9.4
1964	1.5	2.3	2.7	3.2	4.2	4.4	4.6	4.7	4.7	4.7	4.8	4.8	4.8
1965	1.5	1.9	2.0	2.0	2.9	2.9	3.3	3.6	3.7	3.8	3.8	3.8	3.8
1966	2.5	4.7	5.8	5.9	5.9	5.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
1967	1.5	1.9	2.8	2.8	2.8	2.8	4.0	4.0	4.0	4.0	4.0	4.0	4.0
1968	1.9	2.5	3.5	3.7	3.8	3.8	4.6	4.9	5.3	5.7	6.0	7.8	7.8
1969	1.9	1.9	2.5	3.6	4.2	4.2	4.7	4.7	4.7	5.1	6.1	6.2	6.8
1970	1.5	2.7	2.7	2.7	2.7	2.8	3.6	4.4	4.7	4.8	5.0	6.7	6.7
1971	2.2	2.2	2.6	2.8	2.8	2.8	2.8	4.1	4.2	5.0	5.0	5.9	6.1
1972	1.6	4.7	4.7	4.8	5.5	5.5	5.6	5.6	5.7	5.7	5.7	6.8	6.8
1973	2.2	2.8	3.0	3.5	4.3	4.4	4.5	4.8	5.3	5.5	5.5	5.5	5.5
1974	1.8	2.3	2.4	2.6	2.9	3.1	3.6	4.1	4.2	4.8	5.1	5.4	5.4
1975	1.3	1.8	1.7	1.9	1.9	1.9	1.9	3.1	3.1	3.1	3.1	3.1	3.1
1976	1.6	2.1	2.3	2.4	2.4	2.4	3.0	3.5	4.5	4.5	4.5	4.5	4.5
1977	1.9	3.2	3.6	3.6	3.6	3.6	3.6	3.8	4.9	4.9	5.3	6.4	6.7
1978	1.6	2.0	2.1	2.1	2.3	2.8	3.9	4.0	4.0	4.0	4.0	4.0	4.0
1979	2.1	3.5	4.3	4.4	5.9	6.6	9.8	10.8	10.9	11.0	11.8	11.6	11.6
1980	1.3	1.8	1.9	1.9	1.9	1.9	2.9	2.9	2.9	2.9	2.9	3.1	3.1
1981	2.0	2.4	2.9	3.2	3.3	3.3	4.7	5.1	5.2	5.2	9.6	9.6	9.8
1982	2.9	3.8	5.0	5.1	5.1	5.1	5.4	5.4	5.4	5.5	6.0	6.5	6.5
1983	2.1	2.3	2.7	2.9	3.0	3.0	3.8	4.2	4.6	4.8	7.3	9.1	9.5
1984	2.5	2.6	3.0	3.5	3.9	3.9	4.3	6.0	6.6	6.8	9.1	9.1	9.1
1985	1.6	2.8	3.0	3.1	3.1	3.1	3.1	3.9	4.2	5.4	6.2	8.6	8.8
1986	2.8	2.9	3.0	3.0	4.7	4.7	4.8	6.1	6.5	6.5	6.5	6.5	6.5
1987	1.6	2.3	4.2	4.6	4.7	4.7	4.7	5.6	6.1	6.1	6.1	6.1	6.1
1988	1.5	2.1	2.4	3.2	3.6	3.6	4.0	4.0	4.0	4.0	4.0	4.0	4.0
1989	2.2	3.4	3.4	3.4	3.4	3.4	3.4	3.8	3.8	3.8	3.8	3.8	3.8
1990	2.5	2.5	2.5	2.6	2.6	2.6	3.8	5.0	5.0	5.0	5.0	5.0	5.0
Mean Annual	1.93	2.60	3.10	3.32	3.65	3.74	4.35	4.86	5.20	5.65	5.95	6.25	6.33
Maximum	4.5	6.3	7.8	8.3	8.4	8.5	9.8	10.8	10.9	11.0	11.8	11.6	11.6

(all volumes in inches)

Wausau

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1965	0.7	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.5	2.5	2.5	2.5	2.5
1966	1.4	1.5	1.7	1.8	2.0	2.1	2.3	2.6	3.9	4.7	4.8	5.0	5.0
1967	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.8	4.2	4.4	4.4	4.5	4.5
1968	2.2	2.4	3.1	3.3	3.3	3.3	3.7	3.7	3.9	4.1	4.1	4.1	4.1
1969	2.1	2.2	2.2	2.2	2.4	2.7	4.2	4.2	4.7	5.7	5.7	5.7	5.7
1970	1.9	3.0	3.3	4.4	5.3	5.4	5.7	5.8	5.8	5.8	5.9	6.0	6.0
1971	1.5	2.0	2.0	2.0	2.1	2.2	2.4	2.7	2.7	2.7	2.7	2.7	2.7
1972	1.9	2.8	3.4	3.5	4.4	4.4	4.4	4.4	4.4	4.6	4.6	4.6	4.6
1973	2.4	3.2	3.6	3.7	3.7	3.7	3.7	3.8	3.8	5.0	5.3	6.7	6.7
1974	2.2	2.8	2.8	2.8	2.8	2.8	2.8	2.9	2.9	3.2	3.2	3.2	3.2
1975	1.4	1.8	2.1	2.5	3.2	3.4	6.0	7.9	10.0	10.7	11.9	12.4	12.4
1976	2.6	3.9	4.1	4.1	4.1	4.1	4.2	5.0	5.0	5.0	5.0	5.0	5.0
1977	1.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.4	3.4	4.9	4.9
1978	2.6	2.2	3.3	3.5	3.6	3.7	3.8	3.9	4.4	7.6	7.8	7.8	7.8
1979	2.3	3.0	3.3	3.4	3.6	3.7	4.1	4.3	4.3	4.4	5.5	6.1	6.1
1980	2.9	3.1	3.1	3.1	3.1	3.1	3.2	3.3	3.9	3.9	3.9	3.9	3.9
1981	1.7	2.1	2.6	3.2	3.4	3.4	3.4	3.4	3.4	3.5	3.9	4.1	4.1
1982	0.9	1.3	2.0	2.5	2.6	2.7	2.7	2.7	2.7	3.0	3.1	3.1	3.1
1983	1.6	1.9	2.3	2.6	2.7	2.7	3.1	4.2	4.7	4.7	4.8	4.8	4.8
1984	1.5	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
1985	1.3	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
1986	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
1987	0.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
1988	2.2	2.4	2.5	2.7	2.7	3.4	4.3	4.3	6.0	6.4	6.4	6.4	6.4
1989	2.0	2.7	2.8	3.0	3.2	4.0	4.4	4.9	4.9	8.9	9.3	9.5	9.5
1990	2.1	2.4	2.5	2.5	2.5	2.5	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Mean Annual	1.88	3.05	3.28	3.44	3.59	3.69	4.00	4.23	4.56	5.05	5.20	5.39	5.39
Maximum	3.2	9.9	9.9	9.9	9.9	9.9	9.9	9.9	10.0	10.7	11.9	12.4	12.4

(all volumes in inches)

West Palm Beach

	1 hr	2 hr	4 hr	8 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1942	4.4	8.4	9.7	9.9	14.0	15.2	15.2	15.3	16.2	17.1	17.1	17.1	17.1
1943	2.0	2.7	2.8	2.9	2.9	2.9	2.9	4.1	4.4	4.4	4.4	4.4	4.4
1944	1.2	1.6	1.7	1.7	2.5	2.8	3.3	4.2	5.4	6.2	6.9	6.9	6.8
1945	2.5	4.4	6.7	6.9	7.5	8.9	9.2	9.9	10.0	10.4	10.4	10.4	10.4
1946	2.6	2.8	3.4	5.2	5.9	5.9	6.6	6.7	7.2	7.2	7.5	7.5	7.5
1947	2.3	2.9	4.4	5.2	6.7	7.8	8.6	8.6	8.7	9.9	10.2	10.2	10.9
1948	2.1	2.6	3.8	4.6	5.2	5.5	7.1	7.4	7.5	7.5	7.6	7.6	7.6
1949	2.2	3.2	3.3	3.4	4.5	4.6	5.9	6.1	6.2	6.8	7.2	7.2	7.2
1950	1.3	1.8	2.4	2.7	3.4	3.5	4.2	4.3	4.5	6.4	6.9	6.9	6.9
1951	2.0	3.5	6.1	6.5	7.0	7.1	7.5	7.5	7.5	7.5	7.5	7.5	7.5
1952	2.5	2.5	3.8	3.9	3.9	3.9	5.8	6.0	6.1	7.6	7.7	8.8	8.8
1953	1.4	1.9	2.3	2.4	2.4	2.4	3.1	4.1	4.1	4.5	5.2	6.7	8.2
1954	1.4	2.4	2.7	2.9	2.9	3.2	4.7	6.3	6.7	8.0	8.5	10.2	10.2
1955	1.9	2.2	2.5	3.7	3.7	3.7	4.5	5.2	5.4	5.4	5.4	5.4	5.4
1956	1.3	2.0	2.7	2.9	2.8	2.9	3.5	3.5	5.1	5.8	6.5	7.2	8.1
1957	2.5	3.7	4.6	5.2	5.8	5.9	6.4	6.4	6.4	6.4	6.4	6.4	6.4
1958	1.8	3.4	5.4	6.3	6.8	6.9	7.0	7.2	7.2	7.5	8.1	8.1	8.1
1959	2.0	2.6	3.3	4.5	4.6	4.8	6.4	6.5	6.5	8.7	9.8	10.3	10.3
1960	2.3	3.9	5.8	6.5	7.1	7.1	8.6	8.8	8.8	8.8	9.0	13.0	15.2
1961	1.6	1.8	1.9	1.9	1.9	2.0	2.2	2.6	2.9	3.4	3.7	3.9	3.9
1962	1.6	2.1	2.3	2.4	3.4	3.6	3.6	4.2	4.5	5.5	5.7	6.1	6.1
1963	3.2	4.6	4.7	4.7	5.7	6.0	6.6	7.3	7.7	7.7	7.7	7.7	7.7
1964	2.3	2.7	3.2	4.2	4.5	4.5	7.1	7.1	7.1	7.1	7.1	7.1	7.1
1965	1.7	2.2	3.6	4.3	5.3	5.6	8.9	8.9	9.8	9.8	9.8	9.8	9.8
1966	2.1	2.1	2.5	2.8	3.5	3.8	4.8	5.9	7.2	7.5	7.5	7.5	7.5
1967	2.0	3.6	3.6	3.8	4.4	4.6	4.8	5.2	5.3	5.3	5.3	5.3	5.3
1968	3.1	3.4	3.6	3.8	3.7	4.2	4.6	5.0	5.3	7.2	7.4	7.7	7.7
1969	3.6	4.3	4.7	4.9	4.9	4.9	4.9	5.7	5.7	5.9	5.9	5.9	5.9
1970	1.9	2.9	3.3	3.8	4.1	4.2	4.9	4.9	4.9	4.9	4.9	4.9	4.9
1971	2.3	3.7	4.8	5.1	5.3	5.3	5.4	7.6	7.7	8.6	9.4	10.7	11.1
1972	2.0	2.8	4.0	4.8	5.2	5.2	6.2	6.3	6.3	6.4	6.4	6.4	6.4
1973	1.3	2.1	2.2	2.5	2.5	2.5	2.8	3.0	3.2	3.8	4.7	4.8	5.0
1974	1.9	2.1	3.3	3.8	4.5	4.8	5.1	6.2	6.2	6.4	6.4	6.4	6.4
1975	2.1	2.5	3.2	3.9	4.3	4.3	4.4	4.4	4.4	4.5	4.5	4.6	4.6
1976	3.1	4.4	4.9	4.9	5.0	5.0	5.5	6.9	7.1	7.1	7.1	7.1	7.1
1977	1.8	3.4	3.7	3.9	4.5	4.8	5.1	6.8	7.4	8.0	8.7	10.7	12.3
1978	1.6	2.9	3.5	3.7	4.2	4.9	5.3	5.6	5.6	7.1	7.1	7.1	7.1
1979	2.6	3.9	5.4	5.8	6.4	7.0	7.3	7.5	7.6	8.2	8.9	10.9	10.9
1980	2.6	2.6	2.6	2.7	2.8	2.8	3.5	3.5	3.5	3.6	4.2	6.6	6.6
1981	1.4	2.3	3.2	3.4	4.0	4.1	4.2	4.2	5.1	8.0	8.2	8.2	8.2
1982	1.9	3.3	5.2	5.8	6.8	7.6	8.6	8.9	9.2	9.3	9.3	9.3	9.3
1983	1.5	2.4	3.6	4.0	4.7	4.8	5.2	5.6	6.5	6.5	6.6	7.2	7.2
1984	2.8	3.4	4.8	5.4	5.6	5.6	7.7	8.8	10.1	10.9	11.3	11.3	11.3
1986	1.8	1.8	2.2	2.7	3.1	3.2	3.2	3.5	3.5	3.9	8.0	7.0	8.2
1987	2.3	2.4	3.1	3.5	3.6	3.7	4.0	4.3	4.7	5.4	6.1	7.0	7.8
1988	2.5	4.4	6.7	6.4	6.6	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
1989	2.4	3.3	3.8	3.9	3.9	3.9	3.9	4.5	5.1	5.3	5.3	5.3	5.3
1990	2.8	3.9	4.1	4.3	4.4	4.4	4.5	4.8	4.8	5.1	5.1	5.1	5.1
Mean Annual	2.15	3.02	3.82	4.23	4.74	4.96	5.63	6.09	6.40	6.91	7.18	7.63	7.83
Maximum	4.4	8.4	9.7	9.9	14.0	15.2	15.2	15.3	16.2	17.1	17.1	17.1	17.1

(all volumes in inches)

Woodruff

	1 hr	2 hr	4 hr	6 hr	10 hr	12 hr	24 hr	36 hr	48 hr	72 hr	96 hr	168 hr	240 hr
1956	1.6	1.8	2.5	3.2	3.6	3.7	4.1	4.1	4.1	4.1	4.1	4.1	4.1
1957	0.8	2.6	2.6	2.6	2.6	2.7	3.5	4.6	6.0	6.9	7.9	7.9	7.9
1958	1.0	1.4	2.1	2.3	2.8	3.2	3.5	3.5	3.5	3.5	3.7	4.8	4.8
1959	1.8	2.6	4.4	4.5	4.6	4.6	4.7	5.2	5.3	6.3	6.7	6.8	6.8
1960	0.8	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
1961	1.2	2.1	2.5	2.9	3.0	3.0	3.1	3.1	3.1	4.3	4.3	4.6	4.6
1962	2.1	3.3	3.7	4.0	4.6	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
1963	1.4	1.8	2.5	2.5	2.5	2.5	2.6	2.6	2.7	3.0	3.6	4.6	4.6
1964	1.3	1.6	2.3	3.1	4.1	4.1	6.2	7.0	7.1	7.2	7.2	7.2	7.2
1965	1.1	1.6	1.8	1.9	2.6	2.7	3.9	4.3	4.3	4.8	5.3	5.3	5.3
1966	1.5	3.8	3.8	3.8	3.8	3.8	3.8	4.5	5.3	5.9	6.0	6.9	7.5
1967	1.7	2.2	2.2	2.3	2.5	2.5	2.8	3.4	3.4	3.4	3.4	4.4	4.4
1968	1.4	1.6	1.6	2.0	2.2	2.2	2.3	2.3	2.3	2.4	2.4	2.4	2.4
1969	0.8	2.2	2.2	2.2	2.6	2.6	2.6	2.6	2.6	3.2	3.2	3.2	3.2
1970	1.4	1.7	1.7	2.4	2.9	3.1	3.4	3.4	3.4	3.4	3.4	3.4	3.4
1971	2.1	2.3	2.4	2.4	2.4	2.4	2.6	2.7	2.7	2.7	2.7	3.0	3.0
1972	1.6	1.7	1.9	2.2	2.5	2.6	4.2	4.4	4.5	4.6	4.7	4.7	4.7
1973	1.3	1.6	1.8	2.0	2.3	2.3	2.3	2.7	3.0	3.3	3.7	3.7	3.7
1974	1.3	2.1	2.2	2.3	3.0	3.1	3.7	3.7	5.2	6.1	6.3	6.3	6.3
1975	2.2	2.8	3.7	3.8	3.9	3.9	4.5	5.2	5.8	6.4	6.4	6.4	6.4
1976	1.9	2.7	3.8	4.0	4.2	4.4	4.5	4.6	4.8	5.2	5.4	5.4	5.4
1977	2.1	2.4	2.6	2.6	2.6	2.6	2.8	2.8	2.8	3.5	3.5	3.5	3.5
1978	1.9	2.6	2.9	2.9	3.0	3.0	3.3	3.3	5.5	5.6	5.6	6.6	6.6
1979	1.8	2.9	3.4	3.4	3.5	3.5	3.5	3.9	4.1	4.6	4.7	4.7	4.7
1980	2.1	2.2	2.8	2.8	2.8	2.8	3.0	3.2	3.3	3.4	3.4	3.4	3.4
1981	2.0	2.1	2.5	2.9	3.0	3.0	3.0	3.0	3.0	3.8	3.8	3.8	3.8
1982	1.9	1.9	1.9	3.0	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
1983	1.9	2.2	3.6	4.1	4.3	4.5	4.7	4.7	4.7	4.7	4.7	4.7	4.7
1984	2.1	2.5	3.0	3.6	6.1	6.9	7.2	7.2	7.2	7.2	7.2	7.2	7.2
1985	2.3	3.9	5.2	6.0	6.8	7.2	7.3	7.7	7.7	7.7	7.7	7.7	7.7
1986	1.7	2.3	2.6	2.6	2.7	2.7	4.1	4.1	4.2	6.0	6.1	9.0	9.0
1987	1.5	2.0	2.3	2.5	2.8	2.8	2.8	3.2	3.2	3.4	3.7	4.0	4.3
1988	1.3	1.3	1.3	1.3	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
1989	1.4	2.7	3.5	3.5	3.6	4.2	4.6	5.5	6.2	6.4	7.6	7.6	7.6
1990	1.3	1.3	1.3	1.7	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Mean Annual	1.59	2.39	2.81	3.06	3.40	3.49	3.84	4.06	4.31	4.65	4.80	5.06	5.08
Maximum	2.3	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.9	9.0	9.0

(all volumes in inches)

APPENDIX D

COMPARISON BETWEEN THE RESULT OF THIS STUDY, TP-40, AND SELECTED WATER MANAGEMENT DISTRICT STUDIES

**Comparison Between Results From This Study, TP-40, and Selected Water Management District Studies
Northwest Florida Water Management District (NWFWM) Stations**

Apalachicola											
Duration (hrs)	Highest observed		Mean annual		10 year		25 year		100 year		TP-40
	This study	NWFWM	This study	NWFWM	This study	NWFWM	This study	NWFWM	This study	NWFWM	
24	10.1	n/a	5.51	n/a	8.02	n/a	10.0*	9.39	n/a	11.3*	14.3*
48	10.5	n/a	6.29	n/a	9.07	n/a	10.3*	10.61	n/a	12.4*	14.6*
96	12.9	n/a	7.02	n/a	10.12	n/a	12.0*	11.84	n/a	14.0*	16.8*
Blackman											
Duration (hrs)	Highest observed		Mean annual		10 year		25 year		100 year		TP-40
	This study	NWFWM	This study	NWFWM	This study	NWFWM	This study	NWFWM	This study	NWFWM	
24	15.5	n/a	4.8	n/a	7.35	n/a	8.3*	8.1	n/a	9.8*	12.3*
48	16.8	n/a	5.4	n/a	8.3	n/a	9.5*	9.1	n/a	11.0*	13.4*
96	17.6	n/a	5.79	n/a	9.25	n/a	10.6*	10.1	n/a	12.2*	15.8*
Bristol											
Duration (hrs)	Highest observed		Mean annual		10 year		25 year		100 year		TP-40
	This study	NWFWM	This study	NWFWM	This study	NWFWM	This study	NWFWM	This study	NWFWM	
24	7.1	n/a	4.17	n/a	5.96	n/a	8.0*	6.88	n/a	9.0*	11.8*
48	8.6	n/a	4.69	n/a	6.73	n/a	9.0*	7.76	n/a	10.4*	12.5*
96	9.3	n/a	5.22	n/a	7.50	n/a	10.2*	8.65	n/a	12.2*	14.8*
Graceville											
Duration (hrs)	Highest observed		Mean annual		10 year		25 year		100 year		TP-40
	This study	NWFWM	This study	NWFWM	This study	NWFWM	This study	NWFWM	This study	NWFWM	
24	8.9	n/a	4.19	n/a	6.32	n/a	7.4*	7.37	n/a	9.0*	11.0*
48	10.3	n/a	4.77	n/a	7.15	n/a	8.6*	8.28	n/a	10.0*	12.8*
96	12.5	n/a	5.29	n/a	7.98	n/a	10.0*	9.2	n/a	11.8*	15.0*
Monticello											
Duration (hrs)	Highest observed		Mean annual		10 year		25 year		100 year		TP-40
	This study	NWFWM	This study	NWFWM	This study	NWFWM	This study	NWFWM	This study	NWFWM	
24	8.1	n/a	4.58	n/a	5.88	n/a	7.3*	7.02	n/a	8.3*	10.5*
48	8.3	n/a	4.93	n/a	6.57	n/a	8.2*	7.82	n/a	9.5*	12.2*
96	9.2	n/a	5.26	n/a	7.25	n/a	9.4*	8.63	n/a	11.2*	14.0*

* = Data estimated from graph

n/a = Data unavailable

(All depths in inches)

**Comparison Between Results From This Study, TP-40, and Selected Water Management Districts
Northwest Florida Water Management District (NWFWMD) Stations**

Duration (hrs)	Highest observed		Mean annual		10 year		25 year		100 year				
	This study	NWFWMD	This study	NWFWMD	This study	NWFWMD	TP-40	This study	NWFWMD	TP-40	This study	NWFWMD	TP-40
24	10.1	n/a	5.49	n/a	7.35	n/a	9.4*	8.1	n/a	11.0*	8.74	n/a	14.0*
48	13.3	n/a	6.23	n/a	8.30	n/a	10.2*	9.1	n/a	13.9*	9.76	n/a	14.5*
96	15.6	n/a	6.61	n/a	9.25	n/a	11.8*	10.1	n/a	13.8*	10.79	n/a	16.5*

Duration (hrs)	Highest observed		Mean annual		10 year		25 year		100 year				
	This study	NWFWMD	This study	NWFWMD	This study	NWFWMD	TP-40	This study	NWFWMD	TP-40	This study	NWFWMD	TP-40
24	15.2	n/a	5.76	n/a	8.9	n/a	8.1*	11.11	n/a	9.4*	14.76	n/a	12.2*
48	15.2	n/a	6.45	n/a	9.95	n/a	9.1*	12.35	n/a	10.6*	16.25	n/a	13.5*
96	15.2	n/a	7.07	n/a	11	n/a	10.4*	13.59	n/a	12.3*	17.73	n/a	15.5*

Duration (hrs)	Highest observed		Mean annual		10 year		25 year		100 year				
	This study	NWFWMD	This study	NWFWMD	This study	NWFWMD	TP-40	This study	NWFWMD	TP-40	This study	NWFWMD	TP-40
24	11.1	n/a	4.91	n/a	7.36	n/a	9.3*	8.83	n/a	10.7*	11.1	n/a	13.5*
48	14.3	n/a	5.73	n/a	8.41	n/a	10.1*	10.18	n/a	12.0*	12.92	n/a	14.2*
96	16.1	n/a	6.36	n/a	9.47	n/a	11.7*	11.53	n/a	13.7*	14.74	n/a	16.5*

Duration (hrs)	Highest observed		Mean annual		10 year		25 year		100 year				
	This study	NWFWMD	This study	NWFWMD	This study	NWFWMD	TP-40	This study	NWFWMD	TP-40	This study	NWFWMD	TP-40
24	9.1	n/a	5.73	n/a	8.12	n/a	9.6*	9.15	n/a	11.0*	10.41	n/a	13.6*
48	10.7	n/a	6.63	n/a	9.31	n/a	10.4*	10.46	n/a	12.2*	11.81	n/a	14.3*
96	12.6	n/a	7.33	n/a	10.5	n/a	12.0*	11.76	n/a	13.6*	13.22	n/a	17.0*

Duration (hrs)	Highest observed		Mean annual		10 year		25 year		100 year				
	This study	NWFWMD	This study	NWFWMD	This study	NWFWMD	TP-40	This study	NWFWMD	TP-40	This study	NWFWMD	TP-40
24	9.5	n/a	5.17	n/a	7.36	n/a	7.6*	8.48	n/a	8.8*	10.08	n/a	11.5*
48	13.2	n/a	6.13	n/a	8.29	n/a	8.6*	9.49	n/a	10.0*	11.18	n/a	12.7*
96	13.8	n/a	6.64	n/a	9.23	n/a	10.0*	10.51	n/a	11.8*	12.28	n/a	14.7*

* = Data estimated from graph

n/a = Data unavailable

(All depths in inches)

**Comparison Between Results From This Study, TP-40, and Selected Water Management District Studies
Northwest Florida Water Management District (NWFWM D) Stations**

Duration (hrs)	Wausau					
	Highest observed This study NWFWM D	Mean annual This study NWFWM D	10 year This study NWFWM D	25 year This study NWFWM D	100 year This study NWFWM D	TP-40
24	9.9	4.00	6.65	8.30	11.04	9.6*
48	10.0	4.56	7.34	9.17	12.19	10.7*
96	11.9	5.20	8.03	10.04	13.34	12.6*

Duration (hrs)	Woodruff					
	Highest observed This study NWFWM D	Mean annual This study NWFWM D	10 year This study NWFWM D	25 year This study NWFWM D	100 year This study NWFWM D	TP-40
24	7.7	3.84	5.82	6.87	8.43	8.7*
48	7.7	4.31	6.50	7.62	9.22	9.7*
96	7.9	4.80	7.18	8.38	10.02	11.6*

* = Data estimated from graph

n/a = Data unavailable

(All depths in inches)

**Comparison Between Results From This Study, TP-40, and Selected Water Management District Studies
St. Johns River Water Management District (SJRWMD) Stations**

Lynne													
Duration (hrs)	Highest observed This study	Highest observed SJRWMD	Mean annual		10 year		25 year		100 year		TP-40		
			This study	SJRWMD	This study	SJRWMD	This study	SJRWMD	This study	SJRWMD			
24	12.4	12.35	4.11	4.04	6.06	6.3	6.7*	7.07	8.3	7.8*	8.56	11.4	9.8*
48	12.6	13.99	4.66	4.87	6.82	7.4	7.8*	7.92	9.5	9.5*	9.48	12.9	11.8*
96	15.6	15.63	5.36	5.75	7.57	8.8	9.3*	8.76	10.9	11.3*	10.4	14.7	14.6*

Marineland													
Duration (hrs)	Highest observed This study	Highest observed SJRWMD	Mean annual		10 year		25 year		100 year		TP-40		
			This study	SJRWMD	This study	SJRWMD	This study	SJRWMD	This study	SJRWMD			
24	8.4	14.63	4.17	4.46	7.35	7.3	7.6*	8.1	9.6	9.0*	8.74	13.8	11.2*
48	11.3	15.45	4.87	5.16	8.3	8.4	8.3*	9.1	10.8	10.2*	9.76	15	12.4*
96	12.3	15.55	5.52	6.06	9.25	9.6	10.1*	10.1	12.1	12.1*	10.79	16.2	14.8*

Melbourne													
Duration (hrs)	Highest observed This study	Highest observed SJRWMD	Mean annual		10 year		25 year		100 year		TP-40		
			This study	SJRWMD	This study	SJRWMD	This study	SJRWMD	This study	SJRWMD			
24	8.6	8.28	4.07	4.57	8.02	7.1	7.9*	9.39	8.7	9.2*	11.37	11.7	11.3*
48	8.8	10.99	4.80	5.31	9.07	8.1	8.8*	10.61	10.0	10.5*	12.85	13.0	13.3*
96	10.0	12.84	5.34	6.04	10.12	9.2	10.0*	11.84	11.3	12.1*	14.33	14.6	15.5*

Orange City													
Duration (hrs)	Highest observed This study	Highest observed SJRWMD	Mean annual		10 year		25 year		100 year		TP-40		
			This study	SJRWMD	This study	SJRWMD	This study	SJRWMD	This study	SJRWMD			
24	7.7	n/a	4.27	n/a	6.31	n/a	7.5*	7.4	n/a	8.6*	8.99	n/a	10.7*
48	9.7	n/a	4.78	n/a	7.05	n/a	8.3*	8.24	n/a	10.0*	9.94	n/a	12.4*
96	9.8	n/a	5.33	n/a	7.79	n/a	9.8*	9.08	n/a	11.6*	10.88	n/a	14.8*

Orlando													
Duration (hrs)	Highest observed This study	Highest observed SJRWMD	Mean annual		10 year		25 year		100 year		TP-40		
			This study	SJRWMD	This study	SJRWMD	This study	SJRWMD	This study	SJRWMD			
24	9.7	9.89	4.30	4.26	7.08	6.6	7.4*	8.74	8.2	8.5*	11.33	11	10.6*
48	12.0	12.63	5.07	5.1	8.01	7.6	8.3*	9.88	9.8	10.0*	12.79	13.2	12.6*
96	14.2	14.19	5.68	5.93	8.93	8.8	9.7*	11.01	11	11.6*	14.25	14.7	15.0*

* = Data estimated from graph

n/a = Data unavailable

(All depths in inches)

**Comparison Between Results From This Study, TP-40, and Selected Water Management District Studies
St. Johns River Water Management District (SJRWMD) Stations**

Duration (hrs)	Highest observed		Mean annual		10 year		25 year		100 year		
	This study	SJRWMD	This study	SJRWMD	TP-40	This study	SJRWMD	TP-40	This study	SJRWMD	TP-40
24	7.8	9.21	3.57	4.02	6.0	5.30	6.0	6.5*	6.38	7.3	7.8*
48	10.5	10.45	4.1	4.67	6.8	5.93	6.8	7.7*	7.20	8.4	9.0*
96	13.8	13.75	4.63	5.38	7.8	6.56	7.8	8.6*	8.02	9.6	10.6*

Raiford**

Duration (hrs)	Highest observed		Mean annual		10 year		25 year		100 year		
	This study	SJRWMD	This study	SJRWMD	TP-40	This study	SJRWMD	TP-40	This study	SJRWMD	TP-40
24	9.8	9.45	4.35	4.74	7.3	6.81	7.3	8.1*	8.08	8.7	9.3*
48	10.9	10.83	5.20	5.56	8.3	7.73	8.3	9.2*	9.16	9.9	10.6*
96	11.6	12.14	5.95	6.32	9.4	8.66	9.4	10.3*	10.23	11.2	12.3*

Vero Beach

(All depths in inches) n/a = Data unavailable * = Data estimated from graph ** = In SWFWMD, data from SJRWMD

**Comparison Between Results From This Study, TP-40, and Selected Water Management District Studies
Georgia Stations**

Duration (hrs)	Highest observed		Mean annual		10 year		25 year		100 year	
	This study	n/a	This study	n/a	This study	TP-40	This study	TP-40	This study	TP-40
24	7.1	n/a	3.92	n/a	5.88	7.0*	7.02	n/a	8.69	n/a
48	7.8	n/a	4.4	n/a	6.57	8.0*	7.82	n/a	9.62	n/a
96	7.8	n/a	4.61	n/a	7.25	9.0*	8.63	n/a	10.55	n/a

Bainbridge, GA

Duration (hrs)	Highest observed		Mean annual		10 year		25 year		100 year	
	This study	n/a	This study	n/a	This study	TP-40	This study	TP-40	This study	TP-40
24	8.7	n/a	3.96	n/a	5.55	6.8*	6.56	n/a	8.09	n/a
48	8.7	n/a	4.20	n/a	6.09	7.8*	7.12	n/a	8.63	n/a
96	8.7	n/a	4.62	n/a	6.62	8.8*	7.67	n/a	9.17	n/a

Coolidge, GA

Duration (hrs)	Highest observed		Mean annual		10 year		25 year		100 year	
	This study	n/a	This study	n/a	This study	TP-40	This study	TP-40	This study	TP-40
24	8.7	n/a	4.54	n/a	6.45	7.0*	7.72	n/a	9.70	n/a
48	8.7	n/a	4.98	n/a	7.09	8.8*	8.43	n/a	10.49	n/a
96	8.7	n/a	5.18	n/a	7.73	9.6*	9.14	n/a	11.28	n/a

Dothan, GA

Duration (hrs)	Highest observed		Mean annual		10 year		25 year		100 year	
	This study	n/a	This study	n/a	This study	TP-40	This study	TP-40	This study	TP-40
24	8.2	n/a	3.83	n/a	5.77	6.4*	6.88	n/a	8.55	n/a
48	9.9	n/a	4.31	n/a	6.41	7.6*	7.64	n/a	9.48	n/a
96	11.8	n/a	4.78	n/a	7.04	8.4*	8.40	n/a	10.42	n/a

Fargo, GA

Duration (hrs)	Highest observed		Mean annual		10 year		25 year		100 year	
	This study	n/a	This study	n/a	This study	TP-40	This study	TP-40	This study	TP-40
24	6.8	n/a	4.29	n/a	6.27	7.0*	7.39	n/a	9.1	n/a
48	7.9	n/a	4.81	n/a	6.88	7.7*	8.03	n/a	9.71	n/a
96	9.0	n/a	5.26	n/a	7.52	9.0*	8.57	n/a	10.32	n/a

Folkston, GA

* = Data estimated from graph

n/a = Data unavailable

(All depths in inches)

**Comparison Between Results From This Study, TP-40, and Selected Water Management District Studies
South Florida Water Management District (SFWMD) Stations**

Duration (hrs)	Highest observed		Mean annual		10 year		25 year		100 year	
	This study	SFWMD	This study	SFWMD	TP-40	This study	SFWMD	TP-40	This study	SFWMD
Belle Glade										
24	8.6	n/a	3.95	n/a	6.0*	8.0*	7.07	7.1*	8.56	9.0*
48	8.7	n/a	4.62	n/a	n/a	9.2*	7.92	n/a	9.48	n/a
96	8.7	n/a	5.27	n/a	n/a	10.2*	8.76	n/a	10.4	n/a
Boca Raton										
24	14.0	n/a	5.28	n/a	11.5*	9.2*	10.96	14.0*	15.01	19.0*
48	14.0	n/a	6.20	n/a	n/a	10.4*	12.38	n/a	17.03	n/a
96	16.9	n/a	7.02	n/a	n/a	12.2*	13.79	n/a	19.04	n/a
Canal Point										
24	7.3	n/a	3.98	n/a	6.0*	8.0*	7.07	7.1*	8.57	9.0*
48	8	n/a	4.74	n/a	n/a	9.2*	8.01	n/a	9.74	n/a
96	10.5	n/a	5.34	n/a	n/a	10.2*	8.94	n/a	10.91	n/a
Clewiston										
24	9.9	n/a	4.31	n/a	6.0*	8.0*	8.41	7.1*	10.83	9.0*
48	11.1	n/a	5.12	n/a	n/a	9.2*	9.38	n/a	12.01	n/a
96	12.5	n/a	5.61	n/a	n/a	10.2*	10.35	n/a	13.19	n/a
Fort Myers										
24	9.3	n/a	5.06	n/a	6.5*	7.0*	8.88	7.6*	10.81	9.5*
48	10.2	n/a	5.66	n/a	n/a	8.0*	9.76	n/a	11.77	n/a
96	11.0	n/a	6.51	n/a	n/a	10.0*	10.65	n/a	12.73	n/a

* = Data estimated from graph

n/a = Data unavailable

(All depths in inches)

**Comparison Between Results From This Study, TP-40, and Selected Water Management District Studies
South Florida Water Management District (SFWMD) Stations**

Duration (hrs)	Homestead			
	Highest observed This study	Highest observed SFWMD	Mean annual This study	Mean annual SFWMD
24	14.6	n/a	5.15	8.10
48	18.2	n/a	6.00	9.18
96	19.1	n/a	6.94	10.26

Duration (hrs)	Key West			
	Highest observed This study	Highest observed SFWMD	Mean annual This study	Mean annual SFWMD
24	23.3	n/a	5.32	8.02
48	24.4	n/a	6.00	9.07
96	25.0	n/a	6.72	10.12

Duration (hrs)	Miami			
	Highest observed This study	Highest observed SFWMD	Mean annual This study	Mean annual SFWMD
24	16.2	n/a	5.23	7.8*
48	16.2	n/a	6.07	7.09
96	16.2	n/a	6.84	7.92

Duration (hrs)	Moore Haven			
	Highest observed This study	Highest observed SFWMD	Mean annual This study	Mean annual SFWMD
24	8.7	n/a	3.84	5.6*
48	9.8	n/a	4.45	6.82
96	9.8	n/a	5.01	7.57

Duration (hrs)	Ortona			
	Highest observed This study	Highest observed SFWMD	Mean annual This study	Mean annual SFWMD
24	9.1	n/a	3.9	5.0*
48	9.9	n/a	4.53	6.78
96	13.9	n/a	5.38	7.62

* = Data estimated from graph

n/a = Data unavailable

(All depths in inches)

**Comparison Between Results From This Study, TP-40, and Selected Water Management District Studies
South Florida Water Management District (SFWMD) Stations**

Pennsucus											
Duration (hrs)	Highest observed		Mean annual		10 year		25 year		100 year		TP-40
	This study	SFWMD	This study	SFWMD	This study	SFWMD	This study	SFWMD	This study	SFWMD	
24	10.4	n/a	4.73	n/a	7.69	8.0*	8.90	9.5*	10.55	12.0*	13.2*
48	12.8	n/a	5.51	n/a	8.68	n/a	9.91	n/a	11.46	n/a	16.0*
96	14.2	n/a	6.33	n/a	9.68	n/a	10.93	n/a	12.37	n/a	18.5*
Port Mayaca											
Duration (hrs)	Highest observed		Mean annual		10 year		25 year		100 year		TP-40
	This study	SFWMD	This study	SFWMD	This study	SFWMD	This study	SFWMD	This study	SFWMD	
24	8.1	n/a	4.29	n/a	6.00	5.9*	6.97	6.1*	8.44	8.7*	12.0*
48	8.5	n/a	4.84	n/a	6.71	n/a	7.79	n/a	9.42	n/a	13.4*
96	12.7	n/a	5.48	n/a	7.41	n/a	8.61	n/a	10.41	n/a	15.8*
St. Lucie											
Duration (hrs)	Highest observed		Mean annual		10 year		25 year		100 year		TP-40
	This study	SFWMD	This study	SFWMD	This study	SFWMD	This study	SFWMD	This study	SFWMD	
24	11.8	n/a	5.03	n/a	7.97	7.0*	9.68	8.5*	12.43	10.5*	11.5*
48	12.6	n/a	5.86	n/a	8.93	n/a	10.78	n/a	13.71	n/a	14.3*
96	13.8	n/a	6.66	n/a	9.89	n/a	11.88	n/a	14.99	n/a	16.8*
Venus											
Duration (hrs)	Highest observed		Mean annual		10 year		25 year		100 year		TP-40
	This study	SFWMD	This study	SFWMD	This study	SFWMD	This study	SFWMD	This study	SFWMD	
24	11.5	n/a	4.00	n/a	6.19	5.3*	7.47	6.2*	9.55	8.0*	12.0*
48	13.6	n/a	4.78	n/a	6.98	n/a	8.48	n/a	10.94	n/a	13.4*
96	15.1	n/a	5.44	n/a	7.78	n/a	9.50	n/a	12.32	n/a	15.8*
West Palm Beach											
Duration (hrs)	Highest observed		Mean annual		10 year		25 year		100 year		TP-40
	This study	SFWMD	This study	SFWMD	This study	SFWMD	This study	SFWMD	This study	SFWMD	
24	15.2	n/a	5.63	n/a	8.14	9.0*	9.74	10.0*	12.30	14.0*	13.5*
48	16.2	n/a	6.40	n/a	9.15	n/a	10.92	n/a	13.75	n/a	15.5*
96	17.1	n/a	7.18	n/a	10.17	n/a	12.11	n/a	15.20	n/a	18.4*

* = Data estimated from graph

n/a = Data unavailable

(All depths in inches)

**Comparison Between Results From This Study, TP-40, and Selected Water Management District Studies
Suwannee River Water Management District (SRWMD) Stations**

Duration (hrs)	Highest observed		Mean annual		10 year		25 year		100 year		
	This study	SRWMD	This study	SRWMD	This study	TP-40	This study	SRWMD	This study	SRWMD	TP-40
24	8.0	n/a	3.95	n/a	5.64	6.9*	6.66	n/a	8.24	n/a	9.0*
48	9.9	n/a	4.45	n/a	6.39	8.4*	7.60	n/a	9.49	n/a	10.6*
96	10.7	n/a	4.98	n/a	7.15	9.6*	8.55	n/a	10.75	n/a	14.0*

Duration (hrs)	Highest observed		Mean annual		10 year		25 year		100 year		
	This study	SRWMD	This study	SRWMD	This study	TP-40	This study	SRWMD	This study	SRWMD	TP-40
24	11.1	n/a	4.35	n/a	7.05	7.3*	8.46	n/a	10.60	n/a	10.4*
48	11.1	n/a	5.32	n/a	8.06	8.2*	9.63	n/a	11.95	n/a	12.0*
96	11.1	n/a	6.04	n/a	9.06	9.5*	10.79	n/a	13.30	n/a	14.2*

Duration (hrs)	Highest observed		Mean annual		10 year		25 year		100 year		
	This study	SRWMD	This study	SRWMD	This study	TP-40	This study	SRWMD	This study	SRWMD	TP-40
24	9.40	n/a	4.12	n/a	6.10	6.8*	7.30	n/a	9.11	n/a	9.8*
48	11.6	n/a	4.72	n/a	6.68	7.7*	8.26	n/a	10.35	n/a	11.7*
96	11.9	n/a	5.15	n/a	7.66	8.9*	9.22	n/a	11.59	n/a	13.6*

Duration (hrs)	Highest observed		Mean annual		10 year		25 year		100 year		
	This study	SRWMD	This study	SRWMD	This study	TP-40	This study	SRWMD	This study	SRWMD	TP-40
24	9.7	n/a	4.01	n/a	6.36	6.8*	7.42	n/a	8.91	n/a	9.8*
48	10.0	n/a	4.78	n/a	7.27	7.7*	8.51	n/a	10.22	n/a	11.8*
96	12.0	n/a	5.35	n/a	8.18	9.0*	9.61	n/a	11.53	n/a	13.8*

Duration (hrs)	Highest observed		Mean annual		10 year		25 year		100 year		
	This study	SRWMD	This study	SRWMD	This study	TP-40	This study	SRWMD	This study	SRWMD	TP-40
24	9.7	n/a	4.42	n/a	5.88	7.3*	7.02	n/a	8.69	n/a	10.5*
48	10.7	n/a	4.93	n/a	6.57	8.2*	7.82	n/a	9.62	n/a	12.2*
96	11.3	n/a	5.27	n/a	7.25	9.4*	8.63	n/a	10.55	n/a	14.0*

* = Data estimated from graph

n/a = Data unavailable

(All depths in inches)

**Comparison Between Results From This Study, TP-40, and Selected Water Management District Studies
Southwest Florida Water Management District (SWFWMD) Stations**

Duration (hrs)	Highest observed		Mean annual		10 year		25 year		100 year				
	This study	SWFWMD	This study	SWFWMD	This study	SWFWMD	TP-40	This study	SWFWMD	TP-40	This study	SWFWMD	TP-40
24	12.9	n/a	4.83	5.52	7.54	7.44*	7.6*	9.33	9.11*	9.0*	12.30	13.1*	11.4*
48	16.6	n/a	5.61	n/a	8.71	n/a	8.6*	10.89	n/a	10.6*	14.53	n/a	13.6*
96	18.2	n/a	6.44	n/a	9.88	n/a	10.0*	12.44	n/a	12.4*	16.76	n/a	15.8*

Brooksville

Duration (hrs)	Highest observed		Mean annual		10 year		25 year		100 year				
	This study	SWFWMD	This study	SWFWMD	This study	SWFWMD	TP-40	This study	SWFWMD	TP-40	This study	SWFWMD	TP-40
24	10.8	n/a	4.40	n/a	7.09	6.8*	7.7*	8.69	8.4*	8.7*	11.24	11.2*	11.0*
48	13.8	n/a	5.30	n/a	8.16	n/a	8.5*	10.08	n/a	10.3*	13.16	n/a	13.0*
96	15.7	n/a	5.99	n/a	9.23	n/a	10.0*	11.46	n/a	12.3*	15.08	n/a	15.4*

Inglis

Duration (hrs)	Highest observed		Mean annual		10 year		25 year		100 year				
	This study	SWFWMD	This study	SWFWMD	This study	SWFWMD	TP-40	This study	SWFWMD	TP-40	This study	SWFWMD	TP-40
24	11.3	n/a	4.48	n/a	7.28	6.8*	8.0*	8.85	8.2*	9.4*	11.27	10.0*	12.0*
48	12.5	n/a	5.24	n/a	8.16	n/a	9.0*	9.83	n/a	11.3*	12.29	n/a	14.4*
96	12.5	n/a	5.96	n/a	9.04	n/a	10.5*	10.8	n/a	13.6*	13.31	n/a	17.0*

Parrish

Duration (hrs)	Highest observed		Mean annual		10 year		25 year		100 year				
	This study	SWFWMD	This study	SWFWMD	This study	SWFWMD	TP-40	This study	SWFWMD	TP-40	This study	SWFWMD	TP-40
24	10.8	n/a	4.53	4.78	7.16	7.38	7.6*	8.81	8.89	9.0*	11.51	12.44	11.4*
48	13.6	n/a	5.25	n/a	8.13	n/a	8.6*	10.09	n/a	10.6*	13.29	n/a	13.6*
96	15.8	n/a	5.87	n/a	9.11	n/a	10.0*	11.36	n/a	12.4*	15.06	n/a	15.8*

St. Leo

Duration (hrs)	Highest observed		Mean annual		10 year		25 year		100 year				
	This study	SWFWMD	This study	SWFWMD	This study	SWFWMD	TP-40	This study	SWFWMD	TP-40	This study	SWFWMD	TP-40
24	11.7	n/a	4.56	4.96	7.31	7.52	8.3*	9.09	8.94	9.6*	12.03	12.26	12.3*
48	12.8	n/a	5.35	n/a	8.33	n/a	9.3*	10.40	n/a	11.8*	13.82	n/a	14.5*
96	16.4	n/a	6.04	n/a	9.34	n/a	11.0*	11.70	n/a	14.1*	15.61	n/a	18.0*

St. Petersburg

* = Data estimated from graph

n/a = Data unavailable

(All depths in inches)

**Comparison Between Results From This Study, TP-40, and Selected Water Management District Studies
Southwest Florida Water Management District (SWFWMD) Stations**

Duration (hrs)	Tampa											
	Highest observed		Mean annual		10 year		25 year		100 year		TP-40	
	This study	SWFWMD	This study	SWFWMD	This study	SWFWMD	This study	SWFWMD	This study	SWFWMD	This study	SWFWMD
24	12.1	n/a	4.04	4.40	6.66	8.0*	8.13	7.98	9.4*	11.08	11.11	12.0*
48	14.0	n/a	4.71	n/a	n/a	9.0*	9.35	n/a	11.3*	12.79	n/a	14.4*
96	15.9	n/a	5.42	n/a	n/a	10.5*	10.57	n/a	13.6*	14.50	n/a	17.0*

Duration (hrs)	Venice											
	Highest observed		Mean annual		10 year		25 year		100 year		TP-40	
	This study	SWFWMD	This study	SWFWMD	This study	SWFWMD	This study	SWFWMD	This study	SWFWMD	This study	SWFWMD
24	8.0	n/a	4.07	n/a	7.2*	8.1*	6.68	7.5*	9.4*	7.97	9.6*	12.0*
48	9.2	n/a	4.66	n/a	n/a	9.1*	7.59	n/a	11.0*	9.09	n/a	14.3*
96	9.3	n/a	5.25	n/a	n/a	10.3*	8.50	n/a	14.0*	10.22	n/a	17.5*

(All depths in inches) n/a = Data unavailable * = Data estimated from graph

APPENDIX E

PREDICTION EQUATIONS FOR STORMS >24 HOURS IN DURATION AT VARIOUS RETURN PERIOD FOR SELECTED FLORIDA CITIES

FLORIDA RAINFALL VOLUME PREDICTION EQUATIONS

$Y = a + b \cdot \ln X$

(Y = rainfall volume in inches, X = storm duration in hours)

where $24 < X < 240$ hours

City	2 Year		5 Year		10 Year		25 Year		50 Year		100 Year (Return)	
	"a"	"b"	"a"	"b"	"a"	"b"	"a"	"b"	"a"	"b"	"a"	"b"
Apalachicola	2.005	0.892	2.715	1.317	3.182	1.521	3.756	1.772	4.169	1.954	4.606	2.129
Avon Park	1.881	0.636	2.296	0.844	2.478	1.192	2.620	1.551	2.659	1.857	2.637	2.195
Bainbridge	1.874	0.530	2.362	0.822	2.741	0.989	3.323	1.162	3.835	1.264	4.427	1.342
Belle Glade	1.867	0.722	2.168	0.967	2.589	1.092	3.217	1.214	3.747	1.281	4.334	1.330
Blackman	1.845	0.858	2.656	1.236	3.004	1.369	3.492	1.449	3.797	1.472	4.062	1.473
Boca Raton	2.050	0.883	2.987	1.284	3.631	1.576	4.478	2.041	5.112	2.449	5.760	2.910
Branford	1.809	0.643	1.983	0.899	2.165	1.092	2.330	1.362	2.418	1.581	2.474	1.813
Bristol	1.732	0.702	2.153	0.959	2.441	1.108	2.623	1.276	3.114	1.388	3.410	1.491
Brooksville	1.730	0.839	2.058	1.310	2.167	1.690	2.208	2.242	2.164	2.707	2.061	3.220
Canal Point	1.690	0.710	2.170	0.961	2.448	1.133	2.786	1.354	2.982	1.522	3.195	1.690
Clewiston	1.839	0.708	2.565	0.996	3.137	1.179	3.958	1.400	4.647	1.556	5.406	1.706
Coolidge	1.725	0.578	2.486	0.715	3.100	0.772	3.998	0.805	4.760	0.805	5.601	0.783
Cross City	1.502	0.880	2.008	1.241	2.452	1.448	3.132	1.677	3.730	1.823	4.411	1.947
Daytona Beach	1.808	0.765	2.078	1.008	2.353	1.177	2.674	1.395	2.892	1.565	3.093	1.738
Dothan	1.852	0.651	2.857	0.822	3.530	0.919	4.478	1.021	5.258	1.084	6.077	1.140
Dowling	1.708	0.635	2.208	0.825	2.522	1.125	2.905	1.384	3.177	1.582	3.438	1.786
Fargo	1.769	0.565	2.403	0.781	2.836	0.922	3.389	1.098	3.812	1.226	4.248	1.352
Folkston	1.793	0.714	2.689	0.851	3.406	0.901	4.449	0.924	5.328	0.915	6.299	0.881
Fort Myers	2.214	0.842	3.197	1.045	3.898	1.157	4.840	1.272	5.596	1.338	6.387	1.390
Gainesville	1.778	0.667	2.034	1.005	2.150	1.248	2.259	1.573	2.306	1.829	2.337	2.094
Graceville	1.524	0.751	2.071	1.054	2.519	1.197	3.184	1.317	3.741	1.370	4.350	1.395
Grady	1.672	0.725	1.995	1.091	2.176	1.316	2.424	1.573	2.648	1.741	2.910	1.889
Homestead	1.917	0.937	2.618	1.299	3.161	1.555	3.939	1.899	4.582	2.171	5.295	2.455
Inglis	1.667	0.789	2.007	1.219	2.178	1.545	2.333	2.000	2.408	2.370	2.446	2.768
Jacksonville	1.822	0.798	2.235	1.219	2.470	1.540	2.710	1.998	2.856	2.376	2.861	2.792
Key West	1.710	0.825	2.520	1.360	3.203	1.812	4.261	2.427	5.215	2.936	6.328	3.487
Lakeland	1.797	0.622	2.151	0.895	2.357	1.100	2.591	1.385	2.753	1.617	2.902	1.865
Lamont	1.809	0.625	2.404	0.968	2.809	1.257	3.359	1.695	3.801	2.077	4.266	2.515
Lynne	1.688	0.650	2.094	0.981	2.394	1.226	2.623	1.561	3.195	1.827	3.618	2.107
MarineLand	1.662	0.679	1.982	1.073	2.124	1.400	2.227	1.895	2.252	2.324	2.222	2.809
Melbourne	1.802	0.733	2.038	1.030	2.282	1.235	2.553	1.503	2.732	1.707	2.895	1.915
Miami	1.588	1.050	2.546	1.363	3.385	1.538	4.689	1.720	5.847	1.829	7.170	1.913
Monticello	2.113	0.658	2.945	0.879	3.523	0.979	4.292	1.062	4.895	1.095	5.530	1.105
Moore Haven	1.860	0.618	2.145	0.870	2.278	1.046	2.399	1.278	2.467	1.456	2.518	1.637
Niceville	2.357	0.829	3.069	1.140	3.446	1.366	3.848	1.667	4.090	1.904	4.294	2.151
Orange City	1.871	0.678	2.473	0.928	2.925	1.066	3.567	1.207	4.092	1.294	4.651	1.365
Orlando	1.587	0.755	2.333	1.096	2.857	1.330	3.541	1.637	4.073	1.872	4.612	2.112
Ortona	1.797	0.668	2.026	0.979	2.109	1.208	2.150	1.523	2.143	1.773	2.113	2.036
Panacea	2.201	0.908	3.221	1.281	4.083	1.516	5.411	1.792	6.591	1.978	7.953	2.142
Panama City	2.071	0.777	2.393	1.204	2.533	1.519	2.663	1.942	2.726	2.275	2.755	2.626
Parrish	1.773	0.781	2.538	1.107	3.236	1.271	4.361	1.411	5.386	1.466	6.580	1.475
Pensacola	1.630	0.887	2.375	1.336	3.111	1.440	4.268	1.459	5.271	1.408	6.383	1.313
Pensacola	1.739	1.159	2.280	1.537	2.665	1.716	3.167	1.883	3.556	1.968	3.955	2.030
Port Mayaca	1.839	0.704	2.396	0.893	2.759	1.019	3.222	1.180	3.569	1.301	3.910	1.424
Railford	1.802	0.501	2.200	0.724	2.414	0.908	2.624	1.183	2.735	1.423	2.814	1.690
St. Leo	2.063	0.681	2.451	1.096	2.682	1.408	2.967	1.839	3.173	2.188	3.382	2.559
St. Lucie	1.888	0.930	2.821	1.213	3.559	1.387	4.629	1.589	5.539	1.726	6.543	1.852
St. Petersburg	1.844	0.750	2.318	1.162	2.653	1.466	3.094	1.886	3.441	2.225	3.808	2.586
Tallahassee	1.856	0.879	2.537	1.227	3.064	1.351	3.810	1.468	4.410	1.535	5.041	1.587
Tampa	1.393	0.689	1.824	1.061	2.125	1.350	2.539	1.759	2.877	2.098	3.248	2.465
Venice	1.803	0.664	2.106	0.929	2.290	1.101	2.500	1.316	2.651	1.472	2.801	1.625
Venus	1.873	0.638	2.292	0.927	2.537	1.149	2.818	1.463	3.020	1.720	3.212	1.995
Vero Beach	1.694	0.809	2.174	1.140	2.570	1.334	3.157	1.550	3.652	1.692	4.203	1.818
Wausau	2.032	0.547	2.877	0.806	3.483	0.996	4.326	1.252	5.020	1.451	5.777	1.657
West Palm Beach	2.102	0.987	2.905	1.270	3.488	1.463	4.290	1.713	4.938	1.904	5.632	2.097
Woodruff	1.656	0.624	2.225	0.863	2.702	0.981	3.432	1.083	4.061	1.130	4.769	1.151

REFERENCES

- Bedient, Philip B., Rifai, Hanadi S., and Newell, Charles J. Ground Water Contamination Transport and Remediation. Prentice-Hall, Inc. 1994
- David, Michel. Geostatistical Ore Reserve Estimation. Elsevier Scientific Publishing Company, 1977.
- Eaglin, Linda M. Development of Intensity-Duration-Frequency Curves for the State of Florida. 1995.
- Fetter, C. W. Applied Hydrogeology. Macmillan College Publishing Company, 1994.
- Golden Software, Inc. SURFER Reference Manual, Version 4. 1989.
- Hershfield, D. M. "Rainfall Atlas of the United States," U. S. Weather Bureau Technical Paper No. 40. United States Department of Commerce. May 1961.
- Istok, Jonathan D. Groundwater Modeling by the Finite Element Method. American Geophysical Union, 1989.
- Logan, Daryl L. A First Course in the Finite Element Method. Rose-Hulman Institute of Technology, 1986.
- McDonald, Michael G. and Harbaugh, Arlen W. A Modular Three Dimensional Finite-Difference Ground-Water Flow Model. United States Geological Survey, 1988.
- McCuen, Richard H. and Willard M. Snyder. Hydrologic Modeling: Statistical Methods and Applications. Prentice-Hall, 1986.
- Naghavi, Babak, Fang X. Yu, and Vijay P. Singh. "Comparative Evaluation of Frequency Distributions for Louisiana Extreme Rainfall," Water Resources Bulletin Vol. 29 No. 2. American Water Resources Association. April 1993.
- Pinder, George F. and Gray, William G. Finite Element Simulation in Surface and Subsurface Hydrology. Academic Press, 1977.

- Rao, Donthamsetti V. "Rainfall Analysis for Northeast Florida," Technical Publication SJ 88-3 Part VI. St. Johns River Water Management District. May 1988.
- Smith, Kevin R. Technical Publication 90-04: A Three-Dimensional Finite Difference Ground Water Flow Model of Hendry County. South Florida Water Management District, 1990.
- Trimble, Paul. Frequency Analysis of One and Three-Day Rainfall Maxima for Central and Southern Florida. South Florida Water Management District, 1990.
- Wanielista, Martin P. and Yousef A. Yousef. Stormwater Management. John Wiley & Sons, Inc. 1993.
- Wanielista, Martin P., Paul Somerville, George Cooper, Geoffrey Dendy, and Elizabeth Geurink. Rainfall Analysis Southwest Florida Area. Southwest Florida Water Management District. 1987.
- Winsberg, Morton D. Florida Weather. University of Central Florida Press. 1990.