NOAA Technical Report NWS 34

Mean Monthly, Seasonal, and Annual Pan Evaporation for the United States

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WB 4 The March-May 1965 Floods in the Upper Mississippi, Missouri, and Red River of the North Basins. J. L. H. Paulhus and E. R. Nelson, Office of Hydrology, August 1967, 100 p.

WB 5 Climatological Probabilities of Precipitation for the Conterminous United States. Donald L. Jorgensen, Techniques Development Laboratory, December 1967, 60 p.

WB 6 Climatology of Atlantic Tropical Storms and Hurricanes. M. A. Alaka, Techniques Development Laboratory, May 1968, 18 p.

WB 7 Frequency and Areal Distributions of Tropical Storm Rainfall in the United States Coastal Region on the Gulf of Mexico. Hugo V. Goodyear, Office of Hydrology, July 1968, 33 p.

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WB 10 Hemispheric Teleconnections of Mean Circulation Anomalies at 700 Millibars. James F. O'Connor, National Meteorological Center, February 1969, 103 p.

WB 11 Monthly Mean 100-, 50-, 30-, and 10-Millibar Charts and Standard Deviation Maps, 1966-1967. Staff, Upper Air Branch, National Meteorological Center, April 1969, 124 p.

WB 12 Weekly Synoptic Analyses, 5-, 2-, and 0.4-Millibar Surfaces for 1967. Staff, Upper Air Branch, National Meteorological Center, January 1970, 169 p.

NOAA Technical Reports

NWS 13 The March-April 1969 Snowmelt Floods in the Red River of the North, Upper Mississippi, and Missouri Basins. Joseph L. H. Paulhus, Office of Hydrology, October 1970, 92 p. (COM-71-50269)

NWS 14 Weekly Synoptic Analyses, 5-, 2-, and 0.4-Millibar Surfaces for 1968. Staff, Upper Air Branch, National Meteorological Center, May 1971, 169 p. (COM-71-50383)

NWS 15 Some Climatological Characteristics of Hurricanes and Tropical Storms, Gulf and East Coasts of the United States. Francis P. Ho, Richard W. Schwerdt, and Hugo V. Goodyear, May 1975, 87 p. (COM-75-11088)

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Malcolm Baldrige, Secretary

National Oceanic and Atmospheric Administration
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National Weather Service
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MEAN MONTHLY, SEASONAL, AND ANNUAL PAN EVAPORATION FOR THE UNITED STATES

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INTRODUCTION

This publication is a compilation of monthly, seasonal, and annual averages of estimated pan evaporation based on observations from Class A pans and on meteorological measurements by the National Weather Service (NWS) and cooperating agencies. It replaces Technical Paper No. 13 (U.S. Weather Bureau, Hydrologic Branch, Division of Climatological and Hydrologic Services, 1950). These tabulations were generated from the augmentation of a smaller data set used to develop evaporation maps published in NOAA Technical Report NWS-33, Evaporation Atlas for the Contiguous 48 United States, (Farnsworth et al., 1982). This report and its companion report, the evaporation atlas, should facilitate the determination of monthly values of evaporation at most points in the country.

The data set used for the evaporation atlas included, at most, 15 years of data record. To obtain the tabulations contained in this report, the data set was enlarged to include the available period of record (through January 1981 for currently active stations). Therefore, while this report was produced at the same time as the evaporation atlas, there are some significant differences in the data used. The data sets used to produce the maps in the evaporation atlas were selected and, in some cases, adjusted to fit a common base period of 1956-70. For this report, the total period of record rather than a common time base was chosen for the record of observed pan evaporation. This avoids possible errors which might result from adjustments made to fit the common time base. Inclusion of the additional data periods of observed pan records required only tabulation from published records. However, the estimation of "pan" evaporation based on meteorological measurements requires many computations, and so only estimates for years for which the data were already prepared for computer processing (1956-70) for the atlas were included in this report. For the same reason, coefficients of variation of the monthly, seasonal, and annual values of the pan data were computed only for the 1956-70 base except for stations in the state of California which were available on magnetic tape for their full periods of record.

Evaporation means are included for only those stations that have at least 1 month with a period of record of 10 years or more prior to January 1981. Evaporation means for months with less than 5 years of record are omitted. Those means for months with between 5 and 10 years of record are shown to the nearest inch. This format should remind the user that these data cannot be treated with the same confidence as those means with 10 years or more of record which are shown to the nearest 0.01 inch. Actually, the latter should not be interpreted to an accuracy greater than 0.1 inches. However, the additional decimal place was retained to conform with published records.

Months with fewer than 20 observations were excluded from the analysis. This occurred mainly where observations were not taken on weekends, observers went on vacation, or temperatures were near or below freezing.

The data are presented in two tables. Table I lists averages based on observed Class A pan data, and table II lists average "pan" evaporation based on estimates of monthly evaporation derived from hydrometeorological measurements using a form of the Penman equation described by Kohler et al. (1955). Individual stations listed in the tables are ordered alphabetically within their appropriate states. The states are also listed alphabetically.

Table I data are generated primarily from data published in the series, Climatological Data of the United States (NOAA-EDIS). Details on site operation, including the name of the individual or agency operating the station, can be found in the annual summaries. Measurements obtained using non-standard pans, installations, or methods are difficult to compare with those obtained using the standard pans and, therefore, have more limited use. Only stations using standard Class A pans, with a standard installation, and assumed to be following standard procedures are included in table I. The standard Class A pans are unpainted, constructed of monel or galvanized metal, 47.5 inches in diameter, 10 inches deep, and mounted on a platform which raises the pan base a few inches above the surrounding ground. The installation of the pan and the measurement procedures are described in the NWS Observing Manual No. 2--Substation Observations (NOAA-NWS 1972). Approximate locations of the pans are shown in figures 1 and 2. Figure 1 shows those stations which observe only the evaporation from the pan while figure 2 shows stations measuring, in addition to evaporation, the temperature of the water in the pan and the total wind movement over the pan.

The values in table II are estimates based on hydrometeorological data for stations, most of which are published in the series Local Climatological Data (NOAA-EDIS). Details regarding individual stations are found in this publication, especially the issues which present annual summaries. As indicated previously, these data are averages of estimates of monthly Class A "pan" evaporation derived from hydrometeorological measurements. These measurements were taken at the stations of the NWS basic and synoptic network (NOAA-NWS 1979) which had at least 1 month with 10 years of record during the evaporation atlas base period, 1956-70. The locations of these stations are identified in figure 3. The observations required for the evaporation estimates were mean air temperature, mean dew point, the total wind movement 2 feet above the ground surface, and an estimate of incoming solar radiation. Daily wind movement was generally estimated from available wind speeds observed every six hours at the station anemometer height (often around 20 feet). This estimated wind movement was then adjusted, using a logarithmic relationship, to obtain an equivalent wind movement at 2 feet. Solar radiation was either measured directly (at those stations equipped with pyranometers), estimated from hours of sunshine (at stations equipped with sunshine recorders) (Hamon et al., 1954), or estimated from cloud cover (at the remainder of the stations) (Thompson, 1976).

The monthly mean estimated pan evaporation was computed for each month using eq. 1 of NOAA Technical Report NWS-33. A period-of-record average for each month of the year was formed by taking the average of all the values for a given month included in the period of record. The individual monthly sums were formed by multiplying the daily average by the number of days in the month. The data used to estimate each daily mean consisted of the mean daily air and dewpoint temperature and mean daily accumulations of solar radiation (sometimes estimated

from sky cover) and wind travel for the month. Determination of means in this way, using mean values of the input data rather than computing daily estimates of pan evaporation and then computing the average, was based on the experience of Kohler and others (Kohler et al., 1955) who stated that "experience has shown that only minor errors result when monthly evaporation (i.e., mean daily values for the month) is computed from monthly averages of the daily values of T_a, T_d, W_s and U_p (air temperature, dewpoint temperature, solar radiation, and daily pan wind travel)."

It should be noted that the annual means are computed as the sum of the individual monthly means. This causes some bias toward higher evaporation because the record is often not complete during months when temperatures are near or below freezing. For example, during a year when a spring month is colder than normal, observations are missed more often than usual because water in pans is frozen or the pan has to be taken out of service. In these situations, the data that are available for these months for computing an average represent intervals of milder temperatures and higher evaporation. When these months of partial record are summed into the annual or seasonal mean, they tend to bias the annual or seasonal value high. At stations located at high elevations, only the summer months are free from this problem. Our solution to this problem has been simply to note the number of years of record available for each month for each station and to caution users so that they may make subjective corrections appropriate at that location based on their familiarity with the climate.

All of the evaporation values in these tables represent estimates of expected evaporation occurring from a Class A pan. It has been found that evaporation from a shallow lake, wet soil, or other moist natural surfaces is roughly 70 percent of the evaporation from a Class A pan for the same meteorological conditions. The evaporation from shallow lakes and moist soils is generally classified by one of the following equivalent names: free water surface evaporation (FWS), lake evaporation (E_L), or potential evapotranspiration (PE). An estimate of FWS which is more accurate than that given by multiplying the pan value by 0.70, is obtained by multiplying the pan amount by the appropriate coefficient from map 4 of the evaporation atlas described earlier. Still greater accuracy can be achieved when the pan at which the evaporation data were observed also has concurrent records of pan water temperature and pan wind movement. Then FWS evaporation can be computed by methods described by Kohler et al. (1955).

One purpose of this report is to present, in convenient form, monthly means of pan evaporation for those stations having sufficiently long records to establish stable normal values. An important use for these records is in extrapolating to locations where monthly estimates of evaporation are required but no measurements have been taken. Annual and seasonal (May through October) evaporation can be estimated from the maps in the evaporation atlas. The pan data in these tables can be converted to free water surface (FWS) evaporation using map 4 of the evaporation atlas. Determination of monthly values from the annual or seasonal values is done by (1) determining the ratio of the monthly to annual evaporation for an appropriate station having data in these tables, and (2) multiplying this ratio by the value obtained from the map. For an example, see appendix A.

Figure 1. Distribution of Class A pan stations reporting observed evaporation only (water temperature not measured or measured for an insufficiently long period of record).

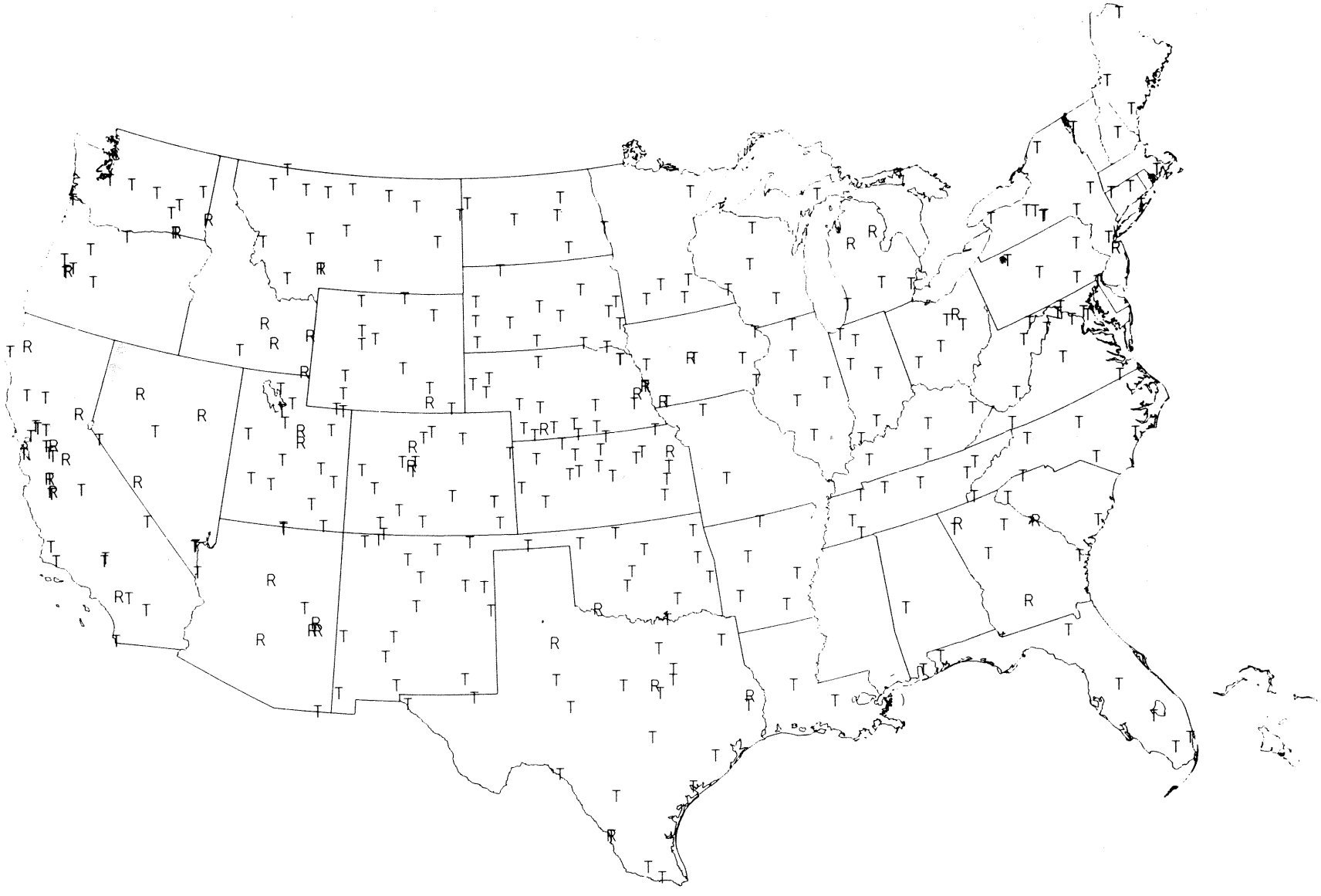

Figure 2. Distribution of Class A pan stations reporting observed evaporation and maximum and minimum water temperatures. Stations identified by an R were not equipped with sensors to record additional data until the latter part of the 1956-70 time base.

Figure 3. Distribution of weather stations measuring a form of air temperature, humidity, wind movement, and radiation, where evaporation can be estimated by the Penman equation.

TABLE I -- MEAN MONTHLY, SEASONAL, AND ANNUAL CLASS A PAN EVAPORATION (INCHES) FOR STATIONS WITH 10 YEARS OR MORE OF RECORD FOR BEST MONTH*

	State No.	Station Index No.**	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	May-Oct ***	Nov-Apr ***	Other Season ***	Annual ***	Record Began Mo/Yr	Latest Data Mo/Yr
ALABAMA																				
Demopolis Lock and Dam	1	2245	2.39	3.02	4.54	5.58	6.50	7.06	7.01	6.67	5.16	4.10	2.73	2.21	36.50	20.47	-	56.97	8/56	11/79
32° 31', 87° 50'			14	15	20	23	23	22	22	24	24	24	23	15						
			****	16	14	9	7	8	10	13	16	11	13	19	5	****		****		
Fairhope	1	2813	1.97	2.45	3.88	5.03	6.28	6.46	6.05	5.60	4.56	3.79	2.36	1.74	32.74	17.43	-	50.17	8/34	12/79
30° 32', 87° 55'			41	42	43	44	44	43	44	45	45	44	44	43						
			18	8	9	9	9	9	9	9	11	11	13	18	5	8		5		
Martin Dam	1	5140	1.90	2.43	4.06	5.04	6.21	6.38	6.28	6.21	4.96	4.01	2.53	2.09	34.05	18.05	-	52.10	2/51	8/79
32° 40', 85° 55'			21	27	28	28	27	29	28	27	28	27	26	25						
			14	14	13	7	11	9	9	10	8	2	10	17	7	****		****		
ALASKA																				
Central 2	50	1466						4.28	4.19	2.70	2.25				-	-	13.42	-	7/63	8/78
65° 34', 144° 49'								15	17	15	10									
								****	****	****	****									
Juneau WSO AP	50	4100					3	3.62	4	3.34					-	-	16	-	5/69	8/78
58° 22', 134° 35'							9	11	9	10										
							****	****	****	****										
Matanuska Agr Exp Station	50	5733					4.62	4.38	4.16	3.16	1.95	1.61			-	-	18.27	-	8/29	8/78
61° 34', 149° 16'							26	46	47	48	46	15								
							****	****	****	****	****	****								
McGrath WSO AP	50	5769						4.68	4.26	2.81					-	-	11.75	-	5/69	8/78
62° 58', 155° 37'								10	10	10										
								****	****	****										
Palmer IAS	50	6870					5.05	4.77	4.66	3	2				-	-	19	-	4/69	9/78
61° 36', 149° 07'							10	11	10	9	9									
							****	****	****	****	****									
University Exp Sta (College)	50	9641						4.84	4.88	3.04	1.41				-	-	14.17	-	5/29	8/78
64° 51', 147° 52'								19	18	19	13									
								****	****	****	****									
ARIZONA																				
Bartlett Dam	2	0632	4.19	4.96	7.47	10.53	14.44	16.81	16.59	14.50	12.57	9.76	6.09	4.66	84.67	37.90	-	122.57	6/40	12/79
33° 49', 111° 38'			38	39	39	39	39	40	40	40	40	40	40	39						
			28	20	21	9	8	5	8	13	12	11	16	20	5	9		5		

* First line of data in the table for each station is mean evaporation in inches; second line is the number of years of record per month; and third line is the coefficient of variation in percent (computed only when there are 10 years or more of record during 1956-1970).

** Climatological Data (NOAA-EDIS)

*** Sum of monthly means.

**** Insufficient data between 1956-70 to compute the coefficient of variation.

TABLE I -- MEAN MONTHLY, SEASONAL, AND ANNUAL CLASS A PAN EVAPORATION (INCHES) FOR STATIONS WITH 10 YEARS OR MORE OF RECORD FOR BEST MONTH*

	State No.	Station Index No.**	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	May-Oct ***	Nov-Apr ***	Other Season ***	Annual ***	Record Began Mo/Yr	Latest Data Mo/Yr
ARIZONA (continued)																				
Davis Dam 2	2	2439	7.28	7.57	10.29	13.19	16.86	19.72	20.22	18.22	14.87	11.86	8.75	7.87	101.75	54.95	-	156.70	1/56	6/77
35° 12', 114° 34'			21	18	20	21	22	22	21	20	21	21	20	20						
			22	22	9	10	6	6	8	6	8	12	22	19	4	7		4		
Davis Dam	2	2440	5	6	9	11	14	16.68	14.43	14.62	11.80	8.93	7.45	5.73	80	44	-	124	7/48	6/61
35° 11', 114° 34'			9	9	9	9	9	10	10	10	10	10	10	10						
			****	****	****	****	****	****	****	****	****	****	****	****	****	****		****		
Douglas	2	2659				13	10.49	9.06	7.31	5.80	6				-	-	52	-	6/65	10/76
31° 21', 109° 32'						7	13	12	14	12	6									
						****	****	****	****	****	****									
Fort Valley	2	3160						6.87	6.47	4.82	3.76				-	-	21.92	-	7/62	9/70
35° 16', 111° 44'								11	13	13	11									
								****	****	****	****									
Hawley Lake (Hawley)	2	3926					8	8.64	6.72	5.65	4.82				-	-	-	38	5/68	9/79
33° 59', 109° 45'							8	11	11	12	12									
							****	****	****	****	****							****		
Many Farms	2	5204		3	5.99	9.54	12.65	15.42	13.64	11.19	8.73	5.63	2.96		67.31	-	-	-	8/51	3/73
36° 21',109° 37'				6	10	11	12	14	17	19	18	17	16							
				****	****	****	****	****	12	15	9	16	****		8					
McNary	2	5412					8	8.36	7	6	5.01	4			-	-	-	38	5/68	6/78
34° 04', 109° 51'							9	10	9	9	10	9								
							****	****	****	****	****	****						****		
Mesa Exp Station (Mesa)	2	5467	2.89	3.71	5.88	8.08	10.78	12.16	12.13	10.58	8.48	6.01	3.75	2.74	60.14	27.05	-	87.19	11/16	12/79
33° 25', 111° 52'			62	63	63	63	61	61	62	63	62	62	64	63						
			20	21	17	14	9	7	6	11	12	11	24	19	4	13		6		
Nogales 2 N	2	5924	3.78	4.70	7.39	9.62	11.91	14.03	10.68	8.42	8.27	7.14	4.67	3.78	60.45	33.94	-	94.39	10/52	12/79
31° 21', 110° 56'			20	24	24	27	27	26	26	25	27	28	27	22						
			15	16	20	11	8	8	9	14	18	14	12	20	7	13		7		
Page	2	6180			6	8.90	11.60	14.00	14.09	12.11	8.84	5.54	2.40		66.08	-	-	-	2/64	10/79
36° 56', 111° 57'					7	19	20	21	22	22	21	21	16							
					****	13	12	17	16	15	13	10	****		13					
Roosevelt 1 WNW	2	7281	2.09	3.05	5.43	8.01	11.37	13.57	13.52	11.26	9.07	5.87	3.08	1.97	64.66	23.63	-	88.29	1/16	12/79
33° 40', 111° 09'			65	68	67	68	68	68	68	68	68	68	66	67						
			16	16	18	12	9	7	9	11	13	11	8	14	6	8		6		

* First line of data in the table for each station is mean evaporation in inches; second line is the number of years of record per month; and third line is the coefficient of variation in percent (computed only when there are 10 years or more of record during 1956-1970).

** Climatological Data (NOAA-EDIS)

*** Sum of monthly means.

**** Insufficient data between 1956-70 to compute the coefficient of variation.

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ARIZONA (continued)																				
San Carlos Reservoir	2	7480	2.31	3.49	5.87	8.72	11.75	14.12	13.46	11.59	9.65	6.63	3.63	2.34	67.20	26.36	-	93.56	7/48	12/79
33° 10', 110° 31'			30	31	31	31	31	31	32	31	31	31	32	31						
			16	15	15	9	5	6	5	11	16	10	12	14	4	6		4		
Sierra Ancha	2	7876	2.30	2.80	4.54	6.75	9.22	10.95	10.41	8.83	7.92	5.97	3.50	2.39	53.30	22.28	-	75.58	2/36	2/73
33° 48', 110° 58'			33	33	35	35	35	35	36	36	34	32	35	31						
			26	18	21	11	7	6	6	14	14	12	25	27	4	12				
Snowflake 15 W	2	8018					11	15	11	8.14	7.88				-	-	53	-	8/67	6/78
34° 30', 110° 20'							7	8	8	10	10									
							****	****	****	****	****									
Steward Mountain	2	8214	3.56	4.67	6.95	10.06	12.99	14.29	14.49	13.15	10.76	8.15	4.57	3.17	73.83	32.98	-	106.81	3/61	5/78
33° 34', 111° 32'			14	15	15	17	17	16	16	15	15	15	16	14						
			****	****	****	****	****	****	****	****	****	****	****	****	****	****		****		
Tempe, University of Arizona Citrus Exp Station	2	8499	1.60	2.92	4.95	7.23	9.64	11.01	11.22	9.83	7.78	5.18	2.54	1.48	54.66	20.72	-	75.38	9/53	6/78
33° 23', 111° 58'			25	25	25	25	25	25	24	24	25	25	25	25						
			17	14	16	12	10	9	6	12	11	9	17	21	7	10		7		
Tucson, University of Arizona	2	8815	2.92	3.92	6.58	9.18	12.17	13.84	12.55	10.56	9.33	6.89	4.10	2.43	65.34	29.13	-	94.47	1/29	12/79
32° 14', 110° 57'			51	51	51	51	51	51	51	51	51	51	51	51						
			19	16	13	7	12	11	8	10	13	16	17	15	9	9		8		
Wahweap	2	9114			7	9.65	13.75	15.86	16.50	15.42	11.20	8.23	4.53		80.96	-	-	-	1/62	10/79
36° 59', 111° 29'					9	13	16	16	16	17	18	17	12							
					****	****	****	****	****	****	****	****	****		****					
Willcox 3 NNW (Willcox)	2	9334	3.30	4.64	7.15	9.83	10.50	11.14	9.72	8.12	7.32	5.96	4.58	3.27	52.76	32.77	-	85.53	1/17	12/35
32° 18', 109° 51'			19	19	19	19	19	19	19	19	19	19	19	19						
			****	****	****	****	****	****	****	****	****	****	****	****	****	****		****		
White River	2	9271			6	8.12	10.04	11.64	9.58	8.65	7.74	5.85	3.56	2.37	53.50	-	-	-	11/67	10/79
33° 50', 109° 58'					6	12	12	12	12	12	12	12	12	12						
					****	****	****	****	****	****	****	****	****	****	****					
Yuma Citrus Station	2	9652	3.66	4.62	7.36	9.74	12.55	13.96	14.94	13.24	10.34	7.43	4.78	3.52	72.46	33.68	-	106.14	10/20	12/79
32° 37', 114° 39'			50	50	50	50	50	50	50	50	50	51	51	51						
			19	16	11	8	7	5	5	7	8	13	15	12	5	8		5		
Yuma Springs	2	9892	3.19	4.02	6.02	7.64	8.82	9.72	10.28	9.69	7.60	5.39	3.50	2.68	51.50	27.05	-	78.55	1/17	11/29
32° 43', 114° 37'			13	13	13	13	13	13	13	13	13	13	13	13						
			****	****	****	****	****	****	****	****	****	****	****	****	****	****		****		

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	State No.	Station Index No.**	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	May-Oct ***	Nov-Apr ***	Other Season ***	Annual ***	Record Began Mo/Yr	Latest Data Mo/Yr
ARIZONA (continued)																				
Yuma Valley	2	9657	3.49	4.34	6.77	8.66	10.38	11.08	11.72	10.74	8.47	6.12	3.99	3.14	58.51	30.39	-	88.90	1/17	6/40
32° 43', 114° 43'			20	20	20	20	20	20	20	19	19	19	19	20						
			****	****	****	****	****	****	****	****	****	****	****	****	****	****		****		
ARKANSAS																				
Blakely Mountain Dam	3	0764	1	2	3.18	4.37	5.53	5.99	6.63	5.98	4.22	3.28	2.09	1	31.63	-	-	-	1/56	11/79
34° 36', 93° 11'			5	7	18	24	24	24	24	24	24	24	21	8						
			****	****	19	15	10	10	9	8	15	14	21	****	7					
Blue Mountain Dam	3	0798			3.48	4.52	5.50	6.62	7.10	6.38	4.34	3.06	1.77	1	33.00	-	-	-	1/67	11/79
35° 06', 93° 39'					13	13	13	13	13	13	13	13	11	6						
					****	****	****	****	****	****	****	****	****	****	****					
Hope 3 NE (Hope)	3	3428	2.19	2.54	4.24	5.07	6.11	6.77	7.41	6.88	5.14	4.17	2.42	1.80	36.48	18.26	-	54.74	2/37	11/79
33° 43', 93° 33'			22	26	32	35	35	36	36	34	36	35	32	29						
			****	16	14	14	8	9	9	16	21	21	13	24	10	****		****		
Mountain Home, CE	3	5038				5.38	6.15	6.83	7.42	6.81	5.05	3.59	2.35		35.85	-	-	-	3/53	10/79
36° 20', 92° 23'						25	27	27	27	27	27	27	16							
						11	10	7	10	10	15	15	****		6					
Narrows Dam	3	5110	2	2.20	3.77	4.68	5.62	6.27	6.76	6.96	5.29	3.99	2.29	1.60	34.89	17	-	52	11/50	7/70
34° 09', 93° 43'			9	11	16	20	20	20	19	19	19	19	17	13						
			****	****	17	12	12	11	15	13	19	17	15	****	6	****		****		
Nimrod Dam	3	5200		2	2.91	4.44	5.21	6.24	6.51	6.01	4.63	3.28	2.06		31.88	-	-	-	10/43	9/66
34° 57', 93° 10'				8	12	17	23	23	23	23	23	23	19							
				****	24	17	23	24	24	30	34	35	****		22					
Russellville (Russellville 4 N)	3	6352	1.63	2.15	3.75	5.04	6.00	6.70	7.38	6.80	5.16	3.73	2.03	1.27	35.77	15.87	-	51.64	1/37	8/79
35° 17', 93° 06'			21	26	36	39	37	38	37	38	38	38	35	28						
			****	14	17	15	19	14	11	14	18	25	13	16	12	****		****		
Stuttgart 9 ESE	3	6920	1.30	2.02	3.79	5.18	6.17	7.39	7.47	6.88	5.09	3.87	2.39	1.44	36.87	16.12	-	52.99	6/29	10/79
34° 28', 91° 25'			26	36	48	49	50	51	51	51	51	51	49	35						
			31	19	20	16	16	14	16	22	22	25	22	****	15	****		****		
CALIFORNIA																				
Alamitos PEKC Pond	4	0053	0.97	1.46	2.69	4.03	5.31	6.47	6.95	6.40	4.70	3.09	1.45	0.90	32.92	11.50	-	44.42	1/60	12/78
37° 15', 121° 52'			19	19	19	19	19	19	19	19	17	18	18	18						
			35	22	16	18	12	12	11	10	16	15	16	22	9	8		8		

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CALIFORNIA (continued)																				
Alturas 2 SE	4	0161	1	1	3	5	6	7.01	8.39	8.03	5.59	3.50	1	1	39	12	-	51	6/57	10/67
41° 03', 121° 40' (approx)			5	7	7	8	8	10	10	10	10	8	7	6						
			****	****	****	****	****	16	7	10	8	****	****	****	****	****		****		
Alvarado	4	None	1.42	2.22	3.77	4.98	6.76	7.40	7.76	6.76	5.37	3.75	2.07	1.42	37.78	15.88	-	53.66	8/24	4/42
37° 34', 122° 07'			17	17	17	18	18	18	18	19	19	19	19	19						
			****	****	****	****	****	****	****	****	****	****	****	****	****	****		****		
Amboy 3 ESE Saltus	4	0176	4.98	7.60	11.59	14.73	18	22.02	22.76	19	15	11	7	5	108	50	-	159	1/67	11/77
34° 32', 115° 42'			11	10	11	10	9	10	10	9	9	8	9	8						
			16	24	16	17	****	10	9	****	****	****	****	****	****	****		****		
Antioch Pump Plant 3	4	0232	1.25	2.06	4.20	6.31	8.99	10.76	11.64	10.11	7.78	5.02	2.05	1.48	54.30	17.35	-	71.65	1/49	12/78
37° 59', 121° 44'			30	28	30	30	30	29	29	27	29	30	30	30						
			23	28	19	19	13	10	11	6	9	14	20	68	7	14		8		
Arvin-Edison WSD	4	0325	1.65	2.99	4.96	6.85	10.98	12.52	14.06	12.95	9.69	5.98	3.03	1.81	66.18	21.29	-	87.47	3/67	12/77
35° 13', 118° 47'			10	10	11	10	10	10	11	11	11	11	11	11						
			23	14	31	19	17	13	8	5	16	12	20	29	8	9		4		
Atascadero Lake	4	0360	1.57	2.09	3.39	5.16	6.57	7.83	9.29	8.19	5.91	3.74	2	1.54	41.53	16	-	58	1/64	2/79
35° 28', 120° 40'			11	12	11	10	10	10	10	10	10	10	9	10						
			38	24	40	21	22	5	12	10	13	28	****	46	****	****				
Avenal 9 SSE	4	0398	2	3.15	6.00	9.10	13.07	16.54	18.96	16	12.24	8.10	3.93	2.31	85	26	-	111	9/50	7/61
35° 54', 120° 03'			9	10	11	11	11	11	11	8	11	11	11	11						
			****	22	21	13	9	18	11	****	10	12	13	26	****	****		****		
Backus Ranch	4	0418	2.87	3.74	6.57	10.04	13.15	16.61	18.27	17.09	12.52	7.95	4.33	2.99	85.59	30.54	-	116.13	6/36	6/62
34° 57', 118° 11'			25	25	25	26	26	27	24	23	24	26	26	24						
			23	16	20	21	10	12	9	11	7	13	17	28	7	11		6		
Baldwin Park	4	0455	2.05	2.60	3.78	4.80	6.38	6.93	8.66	7.99	6.34	4.61	3.11	2.20	40.91	18.54	-	59.45	7/32	12/53
34° 06', 117° 58'			21	21	21	21	21	21	22	22	22	22	22	22						
			20	17	15	14	15	12	8	8	9	11	18	16	7	10		6		
Bataques-Hyd Res - Baja Calif	4	0541	3.98	4.76	7.06	8.94	11.85	12.44	12.60	10.83	8.94	6.22	4.80	3.31	62.88	32.84	-	95.72	1/64	12/76
32° 33', 115° 04'			13	13	13	13	13	13	13	13	12	13	13	13						
			15	21	13	9	8	7	7	16	11	23	32	29	5	10		5		
Beaumont Pumping Pl (Nr)	4	0607	3	3.43	4.41	5.31	6.61	8.39	10.67	10.08	8.11	5.79	3.54	3.11	49.65	23	-	73	1/55	9/75
33° 59', 116° 58'			8	13	14	14	18	20	20	21	21	19	17	13						
			****	27	17	26	9	17	11	14	15	19	21	22	8	****		****		

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CALIFORNIA (continued)																				
Casitas Dam	4	1558	2.28	2.99	4.41	5.47	6.10	6.61	8.27	8.03	6.14	5.04	2.99	2.17	40.19	20.31	-	60.50	9/59	9/77
34° 22', 119° 20'			18	18	18	18	18	18	18	18	19	18	18	18						
			24	23	15	15	15	15	10	8	15	17	17	17	9	10		9		
Castiac Dam Headquarters	4	1562	4.02	4	6	6.38	8.07	8.78	10.28	10.00	8.11	6.54	4.92	3.90	51.78	29	-	81	6/68	12/78
34° 30', 118° 37'			10	8	9	10	10	11	11	11	11	11	11	11						
			19	****	****	23	19	14	13	11	14	16	22	15	9	****		****		
Cotheys Val Bullrun R	4	1588	1.26	1.89	3.39	5.28	8.82	11.22	13.43	11.97	8.78	5.31	2.09	1.10	59.53	15.01	-	74.54	12/65	11/78
37° 24', 120° 03'			13	13	13	13	13	13	13	13	13	13	13	13						
			30	22	19	28	16	12	6	7	11	10	17	33	6	14		6		
Cedarville 12 SE	4	1614						9.17	13.27	11.46	8.62	5			-	-	48	-	6/60	7/70
41° 27', 119° 59'								11	11	10	10	6								
								20	7	16	9	****								
Chico Experiment Station	4	1715	1.33	1.99	3.77	5.66	8.31	10.07	11.30	9.65	7.37	4.50	1.94	1.31	51.20	15.99	-	67.19	5/51	10/79
39° 42', 121° 47'			21	23	26	26	28	28	28	28	28	26	24	18						
			37	22	18	21	16	15	8	10	11	16	36	72	9	13		6		
Chula Vista	4	1758	2.85	3.35	5.00	5.99	6.85	6.97	7.60	7.32	6.11	4.89	3.62	2.42	39.74	23.62	-	63.36	9/18	12/79
32° 36', 117° 06'			61	61	61	61	61	61	61	61	62	62	62	62						
			15	12	9	10	9	8	5	6	8	10	11	13	5	7		4		
Corcoran El Rico 1	4	2013	0.87	1.77	4.25	6.57	10.63	12.64	13.74	12.28	8.23	5.28	1.97	0.75	62.80	62.80	-	80.60	1/59	10/78
36° 03', 119° 39'			17	17	17	19	20	20	20	20	20	17	16	15						
			45	35	22	26	12	10	10	12	26	19	41	51	10	22		10		
Coyote Reservoir	4	2105	1.42	1.89	3.31	5.12	7.48	9.88	11.77	10.59	7.87	4.61	1.89	1.14	52.20	14.77	-	66.97	1/60	3/79
39° 11', 123° 11'			19	19	19	17	17	18	18	18	18	18	18	18						
			36	16	13	23	13	9	8	10	10	14	20	22	4	10		4		
Crane Valley PH	4	2122	1.57	1.81	2.87	4.13	6.57	8.78	11.46	10.94	8.35	5.16	2.60	1.54	51.26	14.52	-	65.78	4/57	8/78
37° 17', 119° 32'			20	20	21	22	22	22	22	22	21	21	21	21						
			35	35	27	36	25	16	10	10	12	17	44	47	9	22		9		
Cuyamaca-Helix I.D.	4	2239			3	4.92	7.09	9.57	10.28	9.69	7.56	5.28	3.54	2	49.47	-	-	-	4/46	4/79
32° 59', 116° 35'					5	12	14	15	15	15	16	16	10	6						
					****	20	18	10	14	12	14	14	13	****	7					
Davis 2 WSW (non-irrigated)	4	2294	1.34	2.12	4.12	6.34	9.07	10.83	11.73	10.38	8.35	5.51	2.55	1.32	55.87	17.79	-	73.66	5/26	12/79
38° 32', 121° 46'			49	53	53	53	53	53	53	53	53	54	54	49						
			33	31	23	25	19	14	10	10	13	18	30	36	11	16		11		

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CALIFORNIA (continued)																				
Davis Hydromet (irrigated)	4	2294	1.53	2.36	4.49	6.69	8.98	10.24	10.55	9.25	7.59	5.47	2.56	1.57	52.08	19.16	-	71.24	7/59	12/78
38° 32', 121° 46'			18	17	17	18	18	18	19	19	19	19	19	19						
			23	23	20	22	15	14	7	7	9	15	23	37	7	13		8		
Death Valley	4	2319	4.50	6.19	10.45	14.31	19.05	21.47	23.99	21.32	16.08	11.27	6.23	4.27	113.18	45.96	-	159.14	5/61	12/79
36° 28', 116° 52'			17	17	18	18	19	19	19	19	19	19	19	19						
			21	24	15	10	9	7	7	7	9	9	21	20	6	9		6		
Delano Gov Camp	4	2346	1.38	2.13	4.49	7.05	10.39	12.32	12.80	10.75	8.07	5.35	2.48	1.42	59.68	18.95	-	78.63	10/52	11/78
35° 49', 119° 11'			22	25	25	25	25	26	23	24	22	25	24	25						
			45	26	21	20	12	10	9	9	12	18	34	54	7	18		9		
Don Pedro Reservoir	4	2473	1.30	2.17	4.06	6.06	9.65	12.28	14.72	12.95	9.72	6.06	2.36	1.30	65.38	17.25	-	82.63	6/50	8/78
37° 43', 120° 24'			26	26	26	26	26	28	28	28	28	27	27	27						
			25	18	20	25	18	14	8	8	9	17	22	45	8	16		9		
Duttons Landing	4	2580	1.50	2.13	3.85	5.83	8.03	9.41	9.49	8.58	6.93	4.72	2.32	1.50	47.16	17.13	-	64.29	11/55	3/79
38° 12', 122° 18'			24	24	24	23	23	23	23	23	23	23	24	24						
			26	21	19	22	13	12	9	12	12	18	27	40	8	15		10		
Eagle Rock Res	4	2605	3.62	3.66	4.96	5.59	5.91	6.57	8.54	8.19	6.77	5.43	4.17	3.50	41.41	25.50	-	66.91	7/56	9/78
34° 09', 118° 11'			22	22	22	22	22	22	23	23	23	22	22	22						
			26	32	19	16	13	17	9	10	14	17	16	17	7	7		4		
El Toro - Moulton Ranch	4	2821	1.97	2.17	3.90	4.88	5.83	7.20	8.66	7.60	5.55	4.29	2.76	1.73	39.13	17.49	-	56.62	10/65	5/77
33° 36', 117° 42'			12	11	11	11	11	10	10	10	10	12	12	12						
			29	30	38	24	12	14	9	18	29	39	44	36	15	26		18		
Encino Reservoir	4	2830	2.91	3.23	4.72	5.98	7.36	8.03	10.55	10.00	8.58	6.30	4.72	3.23	50.82	24.79	-	75.61	7/32	8/60
34° 09', 118° 31'			28	28	28	28	28	28	29	29	28	28	28	28						
			32	24	23	14	14	10	7	7	13	12	24	26	5	12		5		
Fall River Mills Intake	4	2964	1	1.42	3.03	5.04	7.40	9.06	12.20	10.75	7.13	3.86	1.30	1	50.40	13	-	63	8/25	9/54
41° 01', 121° 28'			6	12	24	28	29	29	29	30	30	29	18	8						
			****	38	23	19	16	17	9	8	13	17	29	****	8	****		****		
Ferndale 2 NW	4	3030	0.71	1.18	2.28	3.23	3.94	4.37	4.57	4.09	3.58	2.05	1.02	0.75	22.60	9.17	-	31.77	1/63	9/73
40° 36', 124° 17'			11	10	11	11	11	11	11	11	11	10	10	10						
			22	25	12	15	10	14	10	9	7	10	20	23	4	****		****		
Finley 1 SSE	4	3056	0.94	1.57	2.95	4.65	7.09	8.11	9.33	8.15	5.83	3.43	1.38	0.83	41.94	12.32	-	54.26	10/63	4/79
38° 59', 122° 52'			16	16	16	16	15	15	15	15	15	16	16	16						
			20	29	17	22	14	12	7	11	8	19	23	29	7	11		6		

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CALIFORNIA (continued)																				
Fleming Fish and Game	4	3087				5.28	7.40	8.15	9.96	8.94	6.46	3.62			44.53	-	-	-	6/61	4/79
40° 21', 120° 18'						16	17	18	18	18	18	18								
						18	12	11	7	13	11	11			6					
Florence Lake	4	3093	1.26	1.42	2.44	3.94	5.87	7.76	8.66	8.19	6.14	4.13	2.36	1.54	40.75	12.96	-	53.71	10/46	9/59
37° 16', 118° 58'			13	13	13	13	13	13	13	13	13	13	13	13						
			45	31	25	14	10	10	8	7	9	20	21	32	5	13		6		
Folsom Dam	4	3113	0.90	1.62	3.46	5.38	8.09	10.13	11.46	10.18	7.66	4.96	2.03	0.94	52.48	14.33	-	66.81	1/56	12/79
38° 42', 121° 10'			24	24	24	24	24	24	24	24	24	24	24	24						
			20	29	17	22	14	12	7	11	8	19	23	29	7	11		6		
Fresno State University	4	3257	1.14	2.05	3.94	5.90	8.58	10.31	10.94	9.17	6.69	4.21	2.05	1.02	49.90	16.10	-	66.00	9/68	12/78
36° 49', 119° 44'			10	10	10	10	10	10	10	10	11	11	11	11						
			27	26	26	15	13	11	7	6	5	10	20	26	5	16		5		
Friant Gov Camp CP	4	3261	1.38	2.08	3.95	6.15	10.09	13.28	15.55	13.57	9.68	6.03	2.80	1.33	68.20	17.69	-	85.89	5/39	10/79
36° 59', 119° 43'			39	39	40	40	41	41	40	41	41	41	40	40						
			28	21	18	22	15	14	11	11	10	16	27	37	15	16		11		
Fullerton AP	4	3289	2.76	3.07	4.41	5.39	6.57	7.24	8.74	7.99	6.46	4.96	3.58	2.68	41.96	21.89	-	63.89	1/35	5/77
33° 52', 117° 24'			42	42	42	42	42	41	41	41	41	41	41	41						
			34	26	18	15	14	13	9	9	14	16	27	25	7	12		7		
Gibraltar Dam	4	3401	1.42	2.09	3.74	5.08	6.73	7.80	9.69	9.13	7.56	5.08	2.80	1.38	45.99	16.51	-	62.50	10/31	9/54
34° 31', 119° 42'			23	23	23	23	23	23	23	23	23	21	21	21						
			25	24	20	15	11	9	7	6	6	8	15	20	5	12		6		
Hayfield Pump Plant	4	3855	5.00	5.91	9.45	12.95	17.09	18.82	19.84	17.17	14.88	11.02	7.36	4.84	98.82	45.51	-	144.33	5/34	12/45
33° 42', 115° 28'			11	11	11	11	12	12	12	12	12	12	12	12						
			24	18	12	9	7	5	6	9	8	6	15	11	5	9		6		
Henshaw Res	4	3914	1.81	2.64	3.98	5.31	7.20	9.06	11.22	9.96	7.24	4.72	2.76	1.97	49.40	18.47	-	67.87	7/59	4/79
33° 14', 116° 46'			18	18	19	18	16	16	18	18	17	18	17	16						
			25	21	25	18	12	11	9	9	15	25	25	33	7	13		6		
Hetch Hetchy	4	3939				5.08	5.59	7.24	8.90	7.95	6.02	3.54			39.24	-	-	-	8/49	10/77
37° 57', 119° 47'						10	17	25	27	27	26	23								
						18	20	15	7	13	13	27			7					
Highland Farm	4	3951	3.19	3.19	4.61	7	11	14	17	15	11	7.95	4.60	3.58	76	26	-	102	10/69	3/79
35° 38', 120° 16'			10	10	10	9	9	9	9	9	9	10	10	10						
			60	21	27	****	****	****	****	****	****	15	21	48	****	****		****		

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CALIFORNIA (continued)																				
Hogan Dam	4	4018	1.38	2.13	3.90	5.75	8.46	10.87	13.11	11.73	8.82	5.90	2.36	1.30	58.89	16.82	-	75.71	3/59	3/79
38° 09', 120° 49'			18	18	20	19	19	20	20	20	19	19	19	18						
			18	15	14	22	17	10	8	9	10	17	27	31	5	12		5		
Huntington Beach - Heil	4	4173	1.97	2.44	3.74	4.72	6.65	7.20	7.76	7.17	6.26	4.53	3.19	2.01	39.57	18.07	-	57.64	9/34	12/45
33° 43', 118° 02'			10	11	11	11	11	11	11	11	12	12	11	12						
			33	25	20	15	11	15	11	6	13	19	27	18	10	****		****		
Huntington Lake	4	4176	1.02	1.06	1.85	3.27	5.24	6.89	8.39	7.60	5.55	3.70	2.09	1.34	37.37	10.63	-	48.00	10/46	9/59
37° 14', 119° 13'			13	13	13	13	13	13	13	13	13	13	13	13						
			53	41	33	16	13	11	10	9	10	16	21	33	4	14		4		
Indio Date Garden	4	4259	2.83	4.43	7.26	9.91	12.82	14.76	14.81	13.46	10.66	7.55	4.00	2.55	74.06	30.98	-	105.04	3/59	12/79
33° 43', 116° 15'			20	20	21	21	21	21	21	21	21	21	20	21						
			18	13	10	10	6	10	9	11	11	12	13	19	8	9		7		
Irvine Co Automatic	4	4300	2.56	3.07	4.25	5.24	5.98	6.57	7.72	7.40	5.90	4.41	3.22	2.52	37.98	20.86	-	58.84	2/46	6/72
33° 40', 117° 40'			26	27	27	27	27	27	25	26	26	26	26	26						
			30	30	20	15	15	15	11	9	12	15	26	33	8	12		8		
Isabella Dam	4	4303	2.05	2.68	4.57	6.61	9.76	12.60	14.57	13.15	9.65	6.22	3.27	1.97	65.95	21.15	-	87.10	7/49	6/78
35° 39', 118° 29'			24	23	25	29	29	29	29	29	29	28	26	25						
			24	22	19	20	15	12	12	11	13	16	19	23	9	13		10		
Jackson 1 NW	4	4321	1.18	1.89	3.43	4.69	7.05	9.61	12.28	11.02	8.03	5.24	2.10	1.02	53.23	14.81	-	68.44	1/59	6/70
38° 22', 120° 47'			12	12	12	12	12	12	11	11	11	11	10	11						
			29	27	14	23	12	12	6	8	6	18	43	59	5	19		7		
Juncal Dam	4	4422	1.02	1.57	2.64	3.67	4.84	6.06	7.05	6.38	5.04	3.07	1.65	0.83	32.44	11.33	-	43.77	2/31	1/79
34° 29', 119° 31'			48	48	47	47	48	47	48	48	48	48	48	48						
			77	71	32	26	23	22	19	23	28	35	84	70	19	26		18		
Kaiser Pass	4	4443	1.18	1.30	2.01	3.31	5.04	6.73	8.27	7.20	5.59	3.58	2.09	1.46	36.41	11.35	-	47.76	10/46	9/59
37° 17', 119° 06'			13	13	13	13	13	13	13	13	13	13	13	13						
			35	27	25	17	11	10	9	9	15	17	19	27	7	12		6		
Kettleman City	4	4534	1.85	2.99	5.83	8.50	12.09	14.33	16.57	14.69	10.87	7.48	3.58	1.85	76.41	24.60	-	102.13	10/49	11/78
35° 06', 119° 58'			29	28	28	29	29	29	27	27	28	28	29	29						
			24	25	17	17	11	12	11	11	11	13	22	31	9	10		9		
Knights Ferry 2 ESE	4	4590	0.98	1.77	3.23	5.24	8.11	10.35	12.25	10.71	7.83	4.88	1.85	0.91	54.13	13.98	-	68.11	3/59	7/78
37° 48', 120° 39'			16	18	19	18	20	19	18	18	19	19	19	17						
			28	22	19	23	15	14	9	7	8	17	28	34	11	19		10		

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CALIFORNIA (continued)																				
Lake Bard	4	4673	5.00	4.41	5.51	6.61	7.28	8.19	9.72	9.13	7.36	7.36	6	5.43	49.03	33	-	82	3/67	9/77
34° 15', 118° 50'			10	10	11	11	11	11	11	11	11	10	9	10						
			32	30	22	22	14	21	9	13	18	22	****	24	****	****		****		
Lake Curry	4	4677	1.34	2.01	3.46	5.04	7.16	8.98	10.31	9.57	7.28	4.92	2.52	1.38	48.22	15.75	-	66.97	1/31	12/45
38° 21', 122° 07'			15	14	15	15	15	15	15	15	15	14	14	15						
			19	32	22	20	16	9	9	7	13	14	26	21	7	14		8		
Lake Mathews	4	4689	3.11	3.23	4.49	5.55	7.32	8.54	10.59	10.12	7.95	5.91	3.98	3.07	50.43	23.43	-	73.86	1/39	10/78
33° 51', 117° 27'			40	40	40	40	40	40	39	39	40	40	39	39						
			39	31	21	22	15	17	14	11	14	18	29	35	9	18		11		
Lake O'Neil - Camp Pendleton	4	4694	3.19	3.31	4.49	5.63	6.18	6.89	8.54	8.27	7.01	5.35	3.86	3.31	42.24	23.79	-	66.03	3/53	3/79
33° 20', 117° 19'			26	26	26	26	25	26	24	26	26	26	26	26						
			25	32	22	26	14	13	15	21	22	18	28	30	9	16		11		
Lakeport	4	4701	1	1	2.17	3.90	5.87	6.85	8.46	7.72	5.55	2.56	0.67	1	37.01	10	-	47	6/48	9/70
39° 02', 122° 50'			9	9	10	11	11	12	12	12	12	10	10	9						
			****	****	28	30	16	12	8	14	12	14	41	****	****	****		****		
Lakeshore	4	4709	1.14	1.65	3.11	5.00	6.30	7.68	10.00	9.02	6.61	3.54	1.54	1.02	43.15	13.46	-	56.61	1/48	6/72
40° 53', 122° 23'			10	19	23	20	24	24	23	23	23	23	18	13						
			34	28	18	14	12	12	7	10	9	17	21	32	7	****		****		
Lakeside 2 E	4	4710	3.23	3.74	4.84	6.18	7.36	8.70	10.55	10.00	7.68	6.26	4.37	3.27	50.55	25.63	-	76.18	4/66	4/79
32° 51', 116° 53'			13	13	12	14	12	12	11	11	10	11	10	11						
			17	16	13	14	11	14	6	6	17	12	14	14	4	9		3		
Lake Solano	4	4712	1.85	2.87	5.04	7.37	10.66	12.18	12.87	11.36	9.01	5.98	2.62	1.78	62.06	21.53	-	83.59	7/63	12/79
38° 30', 122° 30'			16	16	16	16	16	16	17	17	17	16	16	16						
			20	34	20	25	12	9	5	8	11	13	24	44	4	12		4		
Lake Spaulding Dam	4	4714					7.36	9.29	11.81	10.71	8.23	5.91			53.31	-	-	-	6/49	6/78
39° 20', 120° 38'							12	26	25	28	28	19								
							14	25	18	22	26	32			9					
Leroy Anderson Dam	4	4916	0.98	1.26	2.44	3.62	5.31	6.50	7.44	6.61	4.96	3.15	1.37	0.91	33.97	10.58	-	44.55	5/66	8/78
37° 10', 121° 38'			12	12	12	12	13	13	13	13	12	12	12	12						
			31	11	18	21	13	15	10	15	15	24	25	25	11	10		9		
Lexington Reservoir	4	4922	1.02	1.46	2.48	3.58	4.96	6.50	7.36	6.65	5.04	3.03	1.65	0.94	33.54	11.13	-	44.67	1/60	8/78
37° 11', 121° 59'			19	19	19	19	19	19	19	19	18	17	18	17						
			33	30	28	24	19	19	16	19	20	29	40	40	16	19		16		

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CALIFORNIA (continued)																				
Little Panoche Det Dam	4	4979	1.77	2.87	5.79	8.62	13.66	15.83	17.09	15.65	11.65	7.09	2.95	1.81	80.97	23.81	-	104.78	2/63	5/75
36° 41', 120° 48'			11	13	13	12	11	11	12	12	12	12	11	10						
			13	23	18	22	14	13	11	11	12	22	22	45	10	****		****		
Livermore Sewage Plt.	4	4996	1.61	2.32	4.21	5.98	8.62	10.04	11.77	10.55	8.03	5.51	2.56	1.57	54.52	18.25	-	72.77	7/62	2/79
37° 41', 121° 48'			17	17	16	16	16	16	17	17	17	16	17	17						
			32	28	22	27	18	15	10	12	13	18	26	37	10	15		9		
Lodi	4	5032	1.10	1.93	3.85	6.01	8.82	10.49	11.32	9.71	7.29	4.41	1.96	1.06	52.04	15.91	-	67.95	1/31	12/79
38° 07', 121° 17'			47	49	49	49	47	47	48	49	49	48	49	46						
			27	24	17	19	11	8	8	10	9	13	22	33	6	12		6		
Los Algodones	4	5107	4.69	5.36	7.76	10.67	13.39	14.33	14.13	12.72	10.43	8.11	5.31	4.33	73.11	38.12	-	111.23	1/61	12/76
32° 42', 114° 44'			16	16	16	16	16	16	16	16	16	16	16	16						
			15	22	13	10	6	9	7	9	11	12	14	18	6	7		6		
Los Banos Field Sta	4	5117	1.34	2.28	4.72	7.44	11.42	13.82	14.96	12.87	9.41	5.87	2.40	1.26	68.35	19.44	-	87.79	8/49	8/78
37° 01', 120° 54'			28	28	28	28	28	28	29	30	28	29	28	28						
			42	29	24	26	15	13	14	14	13	13	24	30	12	16		11		
Los Banos Det Resv	4	5120	1.74	2.69	5.75	9.50	14.80	17.16	18.54	15.83	12.17	7.26	3.17	1.94	85.76	24.79	-	110.55	7/68	12/79
37° 03', 121° 04'			11	11	11	11	11	11	12	12	12	12	12	12						
			28	20	28	18	12	7	7	12	9	11	21	21	3	14		4		
Lost Hills	4	5151	1.61	3.07	5.91	9.02	13.46	16	18.46	15.59	11.65	7.72	3.54	1.81	83	24.96	-	108	7/49	11/78
33° 57', 119° 41'			11	11	10	10	10	9	11	11	11	11	11	11						
			29	37	26	18	14	****	12	13	13	12	18	42	****	****		****		
Madera ID Yard	4	5233	1.30	2.01	4.17	7.09	11.46	13.07	14.80	12.48	9.49	5.35	2.24	1.22	66.65	18.03	-	84.68	8/49	8/78
36° 55', 120° 01'			16	15	16	16	16	16	16	17	15	15	14	15						
			22	22	16	21	14	11	13	17	14	18	16	17	11	11		11		
Mandeville Island	4	5296	1.14	2.40	4.69	6.77	8.78	10.63	11.38	9.92	7.52	5.20	2.52	1.18	53.43	18.70	-	72.13	5/55	5/65
38° 02', 121° 34'			10	10	10	10	11	10	10	10	10	10	10	10						
			29	28	20	19	13	13	10	8	12	16	21	40	8	****		****		
Manteca	4	5303	1.22	1.73	3.98	6.30	9.25	10.28	11.57	10.24	7.56	4.17	1.85	1.18	53.07	16.26	-	69.33	5/65	2/79
37° 48', 121° 12'			14	14	13	13	14	14	14	14	14	14	14	14						
			17	20	20	18	11	13	5	10	19	14	21	28	4	15		5		
Merced 5 SE	4	5532	1	2.01	4.06	5.83	8.78	10.67	12.01	10	7	5	2	1	53	16	-	69	2/59	7/68
37° 16', 120° 23'			9	10	10	10	10	10	10	9	9	9	9	9						
			****	15	7	19	10	10	8	****	****	****	****	****	****	****		****		

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CALIFORNIA (continued)																				
Mexicali Hydro Res, Baja Cal	4	5570	2.72	3.66	6.10	8.11	10.71	12.09	12.13	10.59	8.15	6.18	3.39	2.48	59.85	26.46	-	86.31	1/61	12/76
32° 40', 115° 48'			16	16	16	16	16	16	16	16	16	15	16	16						
			12	13	8	8	4	5	5	10	7	11	11	18	4	6		4		
Mockingbird Res	4	5736	3.31	3.07	3.35	3.94	4.65	5.31	7.01	6.65	5.71	4.92	3.90	3.22	34.25	20.79	-	55.04	7/41	2/79
33° 54', 117° 25'			37	37	36	36	37	37	38	38	38	38	38	38						
			69	64	71	74	63	59	54	50	50	52	53	55	52	58		53		
Mojave	4	5756			7	10	13.86	15.91	17.60	15.79	11.85	7.99	5		83.00	-	-	-	9/64	4/78
35° 03', 118° 10'					7	8	12	13	13	12	13	14	8							
					****	****	10	9	8	12	11	13	****		5					
Monticello Dam	4	5818	1.14	1.85	3.27	4.96	7.36	9.41	11.30	10.16	7.68	4.88	2.01	1.10	50.79	14.33	-	65.12	12/58	1/70
38° 30', 122° 07'			13	12	12	12	12	12	12	12	12	12	12	12						
			27	34	19	27	9	13	7	6	6	13	25	28	5	15		7		
Morris Dam FC 390B	4	5871	2.24	2.28	3.78	4.72	6.06	7.05	9.33	8.78	7.24	5.08	3.70	2.20	43.54	18.92	-	62.46	10/30	9/49
34° 11', 117° 53'			19	19	18	19	18	19	19	19	19	19	19	18						
			30	26	30	18	17	16	10	8	8	17	32	19	10	17		12		
Nacimiento Dam	4	6056	1.65	2.32	3.94	5.63	7.95	9.96	11.46	10.59	7.83	5.28	2.72	1.73	53.07	17.99	-	71.06	5/57	3/79
35° 46', 120° 53'			21	20	22	21	22	22	22	22	21	22	22	20						
			28	30	22	20	11	11	9	6	9	14	23	31	5	12		6		
Newville 1 E	4	6178	1.73	2.56	4.17	6.42	9.49	12.40	14.61	12.76	10.43	6.81	3.15	1.85	66.50	19.88	-	84.90	3/59	10/70
39° 48', 122° 30'			11	11	12	12	12	12	12	12	12	12	11	11						
			31	40	21	27	16	10	6	9	9	21	35	44	6	15		8		
Oakdale-Woodward Dam	4	6305	1.14	1.77	3.39	5.31	9.29	12.28	14.69	12.72	8.94	5.35	2.40	1.14	63.27	15.15	-	78.42	10/18	12/67
37° 51', 120° 53'			42	44	41	45	42	43	42	43	42	42	43	38						
			32	22	15	20	13	11	8	8	11	17	29	31	7	12		8		
Oroville Dam	4	6527	1.22	1.97	3.54	5.31	8.03	10.24	12.32	11.02	8.43	5.28	2.24	1.18	55.32	15.46	-	70.78	1/59	3/79
39° 32', 121° 29'			21	21	20	19	19	20	20	20	19	20	20	20						
			29	26	19	28	17	10	5	10	11	16	30	48	6	17		7		
Perris Res Evap	4	6818	3.86	3.94	5.35	6.38	8.58	10.47	12.87	12.36	9.29	6.81	4.29	3.15	60.38	26.97	-	87.35	12/63	1/79
33° 50', 117° 12'			14	14	14	14	14	14	12	11	12	12	14	14						
			41	27	22	25	12	19	8	6	19	20	20	22	5	16		****		
Pilot Rock Evap	4	6868	2.13	3.15	4.84	5.63	7.60	9.48	10.98	10.04	8.19	5.98	3.46	2.21	51.95	21.42	-	73.37	6/60	4/79
34° 16', 117° 17'			12	16	16	17	18	19	19	18	17	19	19	12						
			47	30	25	29	19	13	14	16	15	19	32	37	9	****		****		

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CALIFORNIA (continued)																				
Pine Flat Dam	4	6896	1.06	1.69	3.27	5.04	7.91	10.16	12.05	10.87	8.19	5.00	2.05	1.06	54.18	14.17	-	68.35	7/49	6/78
36° 50', 119° 19'			29	29	29	29	29	29	29	30	29	28	28	28						
			26	19	21	24	16	12	9	9	9	15	24	38	8	16		9		
Placerville IFG	4	6962	1.42	1.69	2.83	4.21	6.02	7.83	9.72	8.82	6.89	4.13	2.05	1.57	43.41	13.77	-	57.18	6/48	6/78
38° 44', 120° 44'			21	27	30	29	30	31	30	30	30	30	30	22						
			42	29	20	25	17	14	9	11	10	18	36	45	7	14		6		
Prado Dam	4	7123	3.43	3.50	4.72	6.14	7.68	8.62	10.71	10.00	7.91	5.67	4.21	3.38	50.59	25.37	-	75.96	7/30	1/69
33° 54', 117° 38'			38	37	37	37	38	39	39	39	38	38	39	39						
			32	30	26	16	14	18	13	12	14	17	32	30	11	16		11		
Pyramid Reservoir	4	7170	3.90	3.98	5.35	6.73	8.27	10.35	12.13	11.85	9.06	6.65	4.61	3.78	58.31	28.35	-	86.66	3/67	12/78
34° 40', 118° 47'			11	10	11	12	11	11	12	12	12	12	12	12						
			46	52	21	25	35	18	17	16	17	15	30	45	13	24		****		
Red Bluff 3 E	4	7291	1.77	2.36	3.90	5.71	7.60	9.53	10.39	8.66	7.13	4.65	2.28	1.61	47.96	17.63	-	65.59	1/59	12/72
40° 09', 122° 10'			14	14	14	14	14	14	14	14	14	14	14	14						
			25	29	17	21	13	8	9	7	11	13	33	41	5	11		6		
Redinger Lake - Dam 7	4	7305	1.57	2.13	3.98	6.50	8.98	11.61	14.76	12.87	9.53	6.18	2.91	1.85	63.93	18.94	-	82.87	10/46	9/59
37° 09', 119° 27'			13	13	13	13	13	13	13	13	13	13	13	13						
			26	20	19	13	16	10	7	6	5	12	17	26	4	9		4		
Riverside Citrus Exp	4	7473	2.83	3.23	4.57	5.79	7.05	8.19	9.88	9.25	7.05	5.24	3.62	2.68	46.66	22.72	-	69.38	1/25	4/78
33° 58', 117° 20'			50	52	53	52	52	53	51	50	51	51	51	51						
			32	31	21	19	13	17	12	14	18	19	23	25	11	16		12		
Rodriguez, Baja Calif	4	7528	3.86	3.78	4.57	5.83	6.89	7.36	8.54	8.07	6.50	5.55	3.90	3.11	42.91	25.05	-	67.96	1/61	12/76
32° 27', 116° 54'			16	16	16	16	15	16	16	16	16	16	16	16						
			35	33	19	21	17	15	14	9	18	18	25	40	12	18		12		
Salinas Dam	4	7672	1.81	2.56	4.21	5.79	8.15	9.69	11.65	10.98	8.19	5.83	2.87	1.77	54.49	19.01	-	73.50	7/63	3/79
35° 20', 120° 30'			16	15	15	14	15	15	16	16	16	16	16	16						
			32	22	20	22	11	11	7	11	11	17	18	21	5	11		5		
San Antonio Dam	4	7714	1.97	2.60	4.25	6.18	8.78	10.94	12.28	10.98	8.23	5.31	2.99	1.89	56.52	19.88	-	76.40	12/66	3/79
35° 49', 120° 56'			12	11	12	11	11	11	11	11	10	11	11	12						
			21	13	19	20	10	16	7	11	9	14	24	33	6	****		****		
San Bernardino FC	4	7725	2.97	3.52	4.62	6.24	7.67	8.31	11.40	10.84	7.92	6.08	3.83	2.62	52.22	23.80	-	76.02	6/59	10/73
34° 06', 117° 16'			14	14	14	14	14	14	15	15	15	15	14	14						
			30	22	21	20	15	21	10	15	18	19	27	24	12	14		11		

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CALIFORNIA (continued)																				
San Fernando	4	7759	5.75	4.69	6.14	6.50	7.56	7.76	10.35	9.45	8.46	7.40	7.56	6.14	50.98	36.78	-	87.76	1/31	12/54
34° 16', 118° 28'			24	24	24	24	24	24	24	24	24	24	24	24						
			31	40	30	19	16	13	8	6	11	15	31	21	5	17		8		
San Jacinto Res MWD	4	7811	2.72	3.23	4.80	6.38	8.58	10.31	12.56	11.50	9.02	6.38	3.78	2.80	58.35	23.71	-	82.06	7/39	9/71
33° 48', 117° 00'			32	32	32	32	32	32	33	33	33	31	31	32						
			28	24	23	17	11	16	12	13	15	25	20	38	11	15		12		
San Luis Dam	4	7846	1.58	2.62	5.57	8.99	13.28	16.07	19.13	17.23	12.21	7.36	2.90	1.57	85.28	23.23	-	108.51	2/63	12/79
37° 03', 121° 04'			16	17	17	16	17	17	17	17	17	17	17	16						
			23	23	23	27	14	11	8	10	9	10	22	28	4	14		5		
San Mateo Cr, Camp Pendleton	4	7866	4.02	3.74	4.25	5.43	5.91	6.81	9.02	10.20	8.78	7.60	5.75	4.76	48.32	27.95	-	76.27	2/57	3/79
33° 28', 117° 28'			22	23	23	21	21	21	22	22	22	22	22	22						
			23	28	27	25	19	21	19	23	23	28	27	31	13	13		11		
San Pasquel Valley SDDU	4	7873	2.91	2.83	5	5.47	7.24	8	9.84	9.33	7.91	5.40	4.17	2.80	48	23	-	71	10/46	9/57
33° 05', 117° 00'			10	10	9	10	10	9	10	11	11	10	10	10						
			52	29	****	14	7	****	10	8	11	8	21	32	****	****		****		
Santa Rosa, Sewage Plt.	4	7964	1.50	2.20	3.70	5.55	7.36	8.58	9.41	8.30	6.57	4.37	2.13	1	44.59	17	-	62	7/62	1/79
38° 26', 122° 45'			17	16	16	16	16	16	17	17	17	17	17	7						
			37	26	26	23	17	17	9	8	10	15	19	****	6	****		****		
Shasta Dam	4	8135	1.81	2.14	3.45	5.25	7.51	9.21	11.49	10.23	7.93	5.02	2.57	1.75	51.39	16.97	-	68.36	1/46	12/79
40° 43', 122° 25'			31	33	33	33	33	33	33	33	33	33	32	31						
			33	33	19	28	20	15	12	14	12	16	28	37	9	13		9		
Shaver Lake	4	8140	1.14	1.30	2.20	3.58	5.79	7.28	9.17	8.31	6.30	3.66	2.13	1.50	40.51	11.85	-	52.36	10/46	9/59
37° 09', 119° 18'			13	13	13	13	13	13	13	13	13	13	13	13						
			47	32	23	16	17	10	6	9	12	13	20	27	5	13		5		
Silver Lake Res	4	8252	2.75	3.58	4.72	5.59	6.77	6.93	9.02	8.35	6.73	5.04	3.62	2.72	42.84	22.98	-	65.82	1/52	12/67
34° 06', 118° 16'			16	15	15	15	16	16	16	16	16	16	16	16						
			22	23	20	23	14	15	9	7	11	15	22	24	8	13		9		
Sly Park	4	8295	0.55	0.94	1.77	3.23	5.00	7.32	9.09	8.46	6.02	3.46	1.38	0.79	39.35	8.66	-	48.01	7/55	2/79
38° 43', 120° 34'			15	18	19	19	19	18	19	19	19	19	19	17						
			60	50	56	29	25	16	9	10	12	25	50	51	7	21		8		
Soledad CTF	4	8338	2.40	2.99	4.61	5.98	7.68	8.19	8.58	7.60	6.57	5.31	3.11	2.24	43.93	21.33	-	65.26	3/61	5/71
36° 28', 121° 23'			10	10	11	11	11	10	10	10	10	10	10	10						
			11	21	9	15	9	9	9	8	10	13	16	18	6	****		5		

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CALIFORNIA (continued)																				
Stony Gorge Res	4	8587	1.18	1.85	3.70	5.67	8.43	10.67	12.55	11.02	8.27	4.80	1.89	1.18	55.74	15.47	-	71.21	11/48	9/78
39° 35', 122° 32'			30	30	30	30	30	30	30	30	30	29	30	30						
			23	27	18	22	15	12	6	9	7	14	23	29	6	13		7		
Success Dam	4	8620	1.42	2.17	4.17	6.42	9.76	11.97	13.82	12.44	9.33	6.18	2.72	1.30	63.50	18.20	-	81.70	8/59	6/78
36° 03', 118° 55'			19	19	19	19	19	19	18	20	19	18	18	18						
			26	19	17	21	11	10	7	9	10	16	27	31	7	11		7		
Taft KTKR Radio	4	8755	2.05	2.87	5.47	7.80	11.46	13.78	15.47	13.86	10.35	6.77	3.27	1.81	71.69	23.27	-	94.96	5/60	9/78
35° 09', 119° 28'			18	18	18	18	19	19	19	19	19	18	18	18						
			31	20	16	21	12	8	5	7	9	12	18	29	4	8		4		
Tahoe City	4	8758				3	4.06	5.00	6.04	5.80	3.87	2.14			26.30	-	-	-	4/19	12/79
39° 10', 120° 08'						5	33	59	59	57	57	39								
						****	23	24	19	17	22	40			19					
Tecate Hydro Res, Baja Calif	4	8817	3.27	3.31	4.29	5.20	6.14	7.01	8.62	8.27	6.81	6.42	3.86	3.54	43.27	23.47	-	66.74	1/61	12/73
32° 32', 116° 39'			13	13	12	13	13	13	12	10	12	12	13	12						
			20	27	26	23	16	14	19	16	11	21	18	17	10	11		****		
Terminus Dam	4	8868	1.54	2.36	4.09	5.98	9.57	11.93	14.29	13.23	10.04	6.61	2.91	1.34	66.07	18.22	-	83.89	9/62	8/78
36° 25', 119° 00'			16	16	16	16	16	16	15	16	16	15	15	15						
			30	21	21	26	14	8	5	9	9	13	22	36	5	14		6		
Tijuana Hydro Res, Baja Calif	4	8928	3.43	3.70	3.94	4.96	5.83	6.10	6.93	7.32	5.83	5.08	3.39	3.03	37.09	22.45	-	59.54	1/61	12/76
32° 31', 117° 02'			15	14	14	13	15	13	14	13	16	15	14	14						
			26	18	14	15	10	12	11	10	12	14	35	23	7	****		****		
Tracy Pumping Plant	4	9001	1.58	2.70	5.53	8.51	12.48	15.57	17.57	15.25	11.09	6.79	2.98	1.58	78.75	22.88	-	101.63	7/53	12/79
37° 48', 121° 35'			25	25	26	26	26	26	27	27	26	27	27	26						
			30	26	19	19	11	10	8	7	8	13	20	34	4	11		4		
Trinity Dam Vista Pt	4	9024			3	4.02	7.05	8.58	10.55	9.13	6.53	3.07	0.98	1	44.91	-	-	-	7/62	11/78
40° 48', 122° 46'					5	15	16	16	17	16	17	17	16	5						
					****	33	15	10	5	12	16	33	69	****	5					
Tujunga Spreading Gr - Evap	4	9048	3.35	3.70	5.04	6.06	7.68	8.03	10.16	9.61	7.36	5.79	4.53	3.50	48.63	26.18	-	74.81	12/32	12/44
34° 13', 118° 25'			12	12	12	11	12	12	12	12	12	12	12	13						
			27	33	24	19	13	13	8	6	20	13	25	22	8	11		7		
Tulelake	4	9053				5	8.02	8.34	9.45	8.54	6.65	3.62			44.62	-	-	-	8/62	12/79
41° 58', 121° 28'						7	14	17	17	17	18	11								
						****	11	12	5	10	24	14			****					

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Turntable Creek	4	9083	2.32	2.76	3.98	5.51	6.54	8.39	10.51	10.04	8.66	5.83	3.27	2.64	49.97	20.48	-	70.45	1/48	10/69
40° 46', 122° 18'			19	21	22	22	21	22	22	22	21	21	20	18						
			32	32	27	28	17	18	9	10	12	17	31	41	8	17		10		
Twitchell Dam	4	9111	3.21	3.49	4.52	5.35	6.97	7.61	8.86	8.55	7.34	5.91	3.99	3.29	45.24	23.84	-	69.08	4/62	12/79
34° 59', 120° 19'			17	17	17	18	18	18	17	17	18	18	17	18						
			26	22	22	23	17	17	7	8	17	20	21	22	8	11		6		
U.S. Cotton Field Station	4	9145	1.50	2.64	5.12	7.48	11.18	12.20	12.40	10.55	8.19	5.35	2.40	1.30	60.32	20.44	-	82.59	8/44	10/78
35° 32', 119° 17'			17	17	17	17	17	17	18	19	19	19	18	17						
			26	20	14	20	12	6	10	10	9	12	26	32	6	8		6		
Vail Lake - USGS	4	9213	3.46	3.94	4.69	5.98	7.95	9.33	11.46	11.14	8.35	6.38	4.29	3.54	54.61	25.90	-	80.51	4/52	6/76
33° 30', 116° 59'			23	20	23	24	24	24	23	24	23	24	24	22						
			27	20	27	16	11	13	7	10	19	17	24	32	7	15		7		
Valle de Las Palmas, Baja Calif	4	9218	4.02	4.06	5.12	6.50	7.91	9.21	10.63	10.31	8.50	6.46	4.33	3.70	53.02	27.73	-	80.75	1/61	12/77
32° 23', 116° 40'			14	15	15	14	14	15	15	14	15	14	15	14						
			27	31	24	26	10	16	16	17	15	17	18	27	11	15		****		
Van Nuys FC 15B	4	9260	1.31	1.41	2.63	3.57	4.36	4.60	5.86	5.17	3.71	2.37	1.73	1.22	25.93	11.81	-	37.73	1/30	7/48
34° 11', 118° 27'			19	19	19	19	19	19	19	18	18	18	18	18						
			26	29	26	19	16	20	19	24	22	15	29	20	17	16		14		
Verdugo Pump Station	4	9298	5.59	5.13	6.44	7.43	7.28	8.52	11.18	10.38	9.59	8.43	6.27	6.06	55.66	36.70		92.36	1/56	12/69
35° 15', 118°, 20'			13	13	13	12	12	12	13	13	13	13	13	13						
			21	26	22	20	16	17	8	8	18	23	26	24	6	9		5		
Villa Park Dam	4	9338	2.83	2.99	3.35	4.76	5.43	6.14	7.76	7.36	5.82	4.76	3.39	2.60	37.27	19.92	-	57.19	1/64	6/78
33° 49', 117° 46'			15	15	15	15	15	15	14	14	14	14	14	14						
			29	31	31	15	12	19	9	9	23	17	26	24	6	13		7		
Vinton	4	9351				8	7.56	8.39	10.87	10.00	7.60	5			50	-	-	-	1/60	8/70
39° 49', 120° 11'						5	9	11	11	11	10	8								
						****	****	23	17	16	15	****			****					
Westley	4	9565	1.38	2.32	4.61	6.65	8.98	10.55	10.91	9.06	7.40	5.16	2.44	1.54	52.06	18.94	-	71.00	10/49	12/71
37° 33', 121° 12'			21	21	21	21	22	22	22	21	20	21	20	21						
			39	29	23	24	16	12	9	13	19	14	19	57	9	17		9		
Whale Rock Dam	4	960310	4.57	3.70	4.65	5.51	6.22	6.42	6.57	6.18	5.87	6.18	4.80	4.57	37.44	27.80	-	65.24	9/63	4/79
35° 27', 120° 53'			16	16	16	16	15	15	15	16	16	16	16	16						
			27	23	18	17	9	12	6	7	20	31	20	29	8	11		7		

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CALIFORNIA (continued)																				
Whale Rock Res	4	960325	2.76	2.72	3.66	4.80	6	7	7	7	6	4	3	2.52	37	19	-	56	12/69	4/79
35° 29', 120° 52'			10	10	10	10	9	9	9	9	9	9	9	10						
			28	18	22	17	****	****	****	****	****	****	****	25	****	****		****		
Whiskeytown Reservoir	4	9621	1	1.51	2.92	4.61	7.09	8.84	11.08	9.71	7.11	3.79	1.44	1.08	47.68	13	-	61	7/59	12/79
40° 37', 122° 32'			8	18	19	16	19	19	20	20	21	21	19	14						
			****	38	16	26	18	9	8	14	13	21	37	38	5	****		****		
Whitaker Forest	4	9629						6.06	7.99	7.80	5.71	3.50			-	-	31.06	-	7/66	10/77
36° 42', 118° 56'								10	12	12	12	10								
								19	6	10	20	43								
Willow Creek, 1 NW	4	9694		1	2	3	5	7.14	8.62	6.89	4.51	2	1		34	-	-	-	6/69	9/79
40° 57', 123° 38'				7	9	9	9	10	11	11	11	9	6							
				****	****	****	****	8	5	8	16	****	****		****					
COLORADO																				
Alamosa WSO AP	5	0130				7.45	9.71	10.58	9.57	8.37	6.68				-	-	52.36	-	5/60	9/79
37° 77', 105° 52'						12	15	16	17	17	17									
						****	9	7	6	12	8									
Bonny Lake (Bonny Dam)	5	0834				8.18	9.41	11.57	12.44	11.30	8.55	6.68			59.95	-	-	-	1/49	8/78
39° 38', 102° 11'						19	28	29	30	30	28	23								
						16	16	20	15	13	18	17			12					
Climax 2NW	5	1660							5.67	4.66	3.80				-	-	14.13	-	7/58	9/71
39° 22', 106° 11'									11	12	10									
									13	19	****									
Conejos 3 NNW	5	1816				7	8.28	8.57	7.40	7.06	7.15	5.27			43.73	-	-	-	6/40	9/59
37° 08', 106° 02'						7	19	20	20	20	20	15								
						****	****	****	****	****	****	****			****					
Estes Park	5	2759					6	7.13	7.06	5.87	5.14				-	-	31	-	5/56	9/71
40° 23', 105° 31'							5	14	15	15	13									
							****	16	9	18	15									
Grand Junction 6 ESE	5	3489				7.77	10.23	12.83	13.20	11.35	8.38	5.19	2		61.18	-	-	-	4/56	9/79
39° 03', 108° 27'						17	22	23	23	22	23	17	8							
						16	21	27	24	26	27	27	****		22					
Grand Lake 6 SSW	5	3500					7	8.30	8.33	7.00	5.65	3.67			40	-	-	-	8/49	9/79
40° 11', 105° 52'							9	25	29	30	30	19								
							****	14	8	14	15	****			****					

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	State No.	Station Index No.**	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	May-Oct ***	Nov-Apr ***	Other Season ***	Annual ***	Record Began Mo/Yr	Latest Data Mo/Yr
COLORADO (continued)																				
Green Mountain Dam	5	3592					5.27	6.84	7.10	6.08	4.82	3.18			33.29	-	-	-	8/48	9/78
39° 53', 106° 20'							12	29	30	31	31	16								
							****	19	9	13	15	17			****					
John Martin Dam	5	4388			6	8.16	9.85	11.61	12.58	10.72	8.28	5.70			58.74	-	-	-	4/42	9/78
38° 04', 102° 55'					7	33	37	36	36	36	37	35								
					****	13	13	14	11	9	13	17			7					
Lake George 8 SW	5	4742					7	8.03	7.48	6.25	5.81				-	-	35	-	4/67	10/79
38° 55', 105° 29'							5	13	13	13	13									
							****	****	****	****	****						****			
Meridith	5	5507						8.96	8.85	7.26	5.41				-	-	30.48	-	5/69	9/79
39° 22', 106° 45'								11	11	12	12									
								****	****	****	****									
Montrose No. 1	5	5717	1.28	1.56	3.54	5.59	7.58	9.35	9.21	7.58	5.80	3.57	1.68	1.29	43.09	14.94	-	58.03	1/41	10/79
38° 29', 107° 53'			30	30	33	39	38	39	39	39	39	39	35	15						
			8	10	18	15	13	13	11	14	14	22	22	13	9	9		8		
Pueblo City Reservoir	5	6743		3.62	5.76	6.96	9.00	10.51	11.06	9.41	7.68	5.43	3.38	3	53.09	-	-	-	3/42	10/70
38° 17', 104° 39'				11	14	20	28	29	29	29	29	26	15	7						
				****	****	****	12	17	11	14	18	16	****	****	11					
Springfield	5	7866				8.44	10.60	12.26	13.16	11.88	9.16	6.86			63.92	-	-	-	9/56	10/79
37° 23', 102° 42'						23	23	23	23	23	24	24								
						17	14	12	12	13	16	21			10					
Sugar Loaf Reservoir	5	8064						6.50	5.85	5.02	4.12	3			-	-	24	-	8/48	9/79
39° 15', 106° 22'								19	27	27	26	8								
								****	12	13	11	****								
Twin Lakes Reservoir	5	8501						8	8.02	6.89	5.45				-	-	28	-	7/65	10/78
39° 05', 106° 19'								7	10	10	10									
								****	****	****	****						****			
Vallecito Dam	5	8582				4.00	5.47	6.73	6.62	5.68	4.53	3.18	2		32.21	-	-	-	8/48	10/79
37° 24', 107° 33'						26	31	31	31	32	32	31	8							
						13	13	12	11	16	24	26	****		11					
Wagon Wheel Gap	5	8742					7	8.57	7.27	6.04	5.59	4			38	-	-	-	5/40	9/71
37° 48', 106° 58'							5	30	31	31	32	9								
							****	17	18	15	15	****			****					

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COLORADO (continued)																				
Wiggins 7 SW	5	9025				10	8.81	9	10	8	6.02	4			46	-	-	-	4/61	9/70
40° 09', 104° 11'						9	10	8	9	9	10	9								
						****	****	****	****	****	****	****			****					
CONNECTICUT																				
Coventry	6	1689					6	5.85	6.06	5.06	3.77				-	-	27	-	5/57	7/79
41° 48', 72° 21'							6	19	23	22	21									
							****	10	15	12	12									
Norfolk	6	5445					3.70	4.30	4.52	3.87	2.38	1.28			20.50	-	-	-	5/65	10/79
41° 58', 73° 13'							14	14	15	15	15	13								
							****	****	****	****	****	****			****					
DELAWARE																				
Georgetown	7	3570				5.76	6.55	7.33	7.69	6.75	5.13	3.90			37.35	-	-	-	4/56	10/79
38° 38', 75° 27'						16	20	21	23	22	24	20								
						****	10	10	10	11	20	16			13					
Newark University Farm	7	6410					5.17	6.00	6.39	5.59	4.00				-	-	27.15	-	5/28	9/79
39° 40', 75° 44'							12	18	16	15	15									
							****	****	****	****	****									
FLORIDA																				
Bay Lake	8	0520	3.19	3.91	5.65	6.76	7.84	7.39	6.77	6.14	5.42	4.90	3.77	3.05	38.46	26.33	-	64.79	12/51	12/66
28° 04', 82° 30'			15	15	14	15	15	15	13	15	15	15	15	16						
			15	13	20	13	14	8	****	14	9	14	14	10	****	13		****		
Belle Glade Exp Station	8	0611	3.35	3.99	5.70	6.45	7.07	6.29	6.33	6.15	5.30	4.73	3.66	3.14	35.87	26.29	-	62.16	3/40	12/79
26° 40', 80° 38'			38	38	40	40	40	40	40	40	40	40	40	40						
			9	7	9	8	8	6	7	7	7	9	10	8	4	5		4		
Flamingo R S	8	3020	5	5	7	9	9	8	8.15	7.43	6	6	4	4.38	45	34	-	79	5/63	9/75
25° 09', 80° 55'			7	8	8	8	9	6	10	10	8	9	9	10						
			****	****	****	****	****	****	****	****	****	****	****	****	****	****		****		
Ft. Lauderdale Exp Sta	8	3171	3.83	4.33	6.24	7.54	7.83	6.92	7.15	6.97	5.94	5.52	4.31	3.81	40.33	30.06	-	70.39	11/53	6/79
26° 05', 80° 15'			25	25	25	25	25	25	21	20	22	23	24	24						
			13	8	9	6	13	11	10	7	12	9	7	8	6	4		4		

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FLORIDA (continued)																				
Gainesville 2 WSW	8	3321	2.95	3.71	5.65	7.14	7.97	7.59	7.14	6.71	5.74	4.97	3.60	2.82	40.12	25.87	-	65.99	10/53	12/79
29° 38', 82° 22'			23	26	26	26	26	25	25	26	26	27	27	26						
			12	10	10	9	10	9	5	8	8	13	11	13	3	7		4		
Hialeah	8	3909	3.81	4.42	6.12	7.26	7.80	7.12	7.36	7.22	5.91	5.81	4.79	3.80	41.22	30.20	-	71.42	1/41	12/79
25° 50', 80° 17'			38	37	37	36	39	38	38	38	37	38	39	38						
			10	9	7	5	7	11	6	7	14	6	8	11	5	4		3		
Lake Alfred	8	4707	3.33	3.91	6.01	7.37	8.16	7.23	7.33	6.92	6.17	5.30	3.90	3.09	41.11	27.61	-	68.72	5/65	12/79
28° 06', 81° 43'			14	14	14	14	15	15	14	15	15	14	14	14						
			****	****	****	****	****	****	****	****	****	****	****	****	****	****		****		
Lake City 2E	8	4731	2.99	3.76	5.70	7.06	7.70	7.55	7.49	6.59	5.92	4.94	3.56	2.98	40.19	26.05	-	66.24	6/65	12/79
30° 11', 82° 36'			10	11	14	14	14	13	15	13	14	15	15	13						
			****	****	****	****	****	****	****	****	****	****	****	****	****	****		****		
Lisbon	8	5076	2.75	3.30	5.01	6.59	7.15	6.61	6.55	6.02	5.09	4.44	3.21	2.69	35.86	23.55	-	59.41	1/60	12/79
28° 52', 81° 47'			19	20	20	20	19	20	20	20	20	20	20	20						
			9	6	8	7	8	9	6	6	7	5	11	15	2	4		2		
Loxahatchee	8	5182	3.17	3.81	5.28	6.27	6.94	6.17	6.01	5.91	5.16	4.55	3.40	2.81	34.74	24.74	-	59.48	1/41	12/59
26° 41', 80° 16'			19	19	19	19	19	19	19	19	19	19	19	19						
			****	****	****	****	****	****	****	****	****	****	****	****	****	****		****		
Milton Exp. Sta	8	5793	2.58	3.26	4.99	6.25	7.02	7.08	6.56	6.05	5.27	4.70	3.18	2.32	36.68	22.58	-	59.26	1/63	12/79
30° 47', 87° 08'			12	16	16	16	16	17	16	16	16	17	16	15						
			****	****	****	****	****	****	****	****	****	****	****	****	****	****		****		
Moore Haven Lock No. 1	8	5895	4.05	4.30	6.47	7.87	8.50	7.68	7.50	7.17	6.56	5.91	4.46	3.60	43.32	30.75	-	74.07	1/49	12/79
26° 50', 81° 05'			31	31	31	31	31	30	31	31	31	31	31	30						
			11	9	10	9	11	9	8	11	10	12	7	11	7	6		6		
Tamiami Trail (40 Mi Bend)	8	8780	3.36	3.85	5.41	6.31	6.83	6.15	6.87	6.57	5.36	5.53	3.81	3.20	37.31	25.94	-	63.25	2/41	11/79
25° 45', 80° 50'			29	30	30	29	31	27	27	32	31	31	32	29						
			8	9	9	7	12	13	9	8	14	8	9	10	7	5		5		
Vero Beach 4W	8	9219	2.80	3.60	5.44	6.64	7.07	6.66	6.64	6.32	5.03	4.81	3.31	2.64	36.53	24.43	-	60.96	5/65	12/79
27° 38', 80° 27'			14	14	14	14	15	15	15	15	15	15	15	15						
			23	18	15	11	11	11	9	12	16	22	21	27	11	16		12		
Woodruff Dam	8	9795	2.63	3.27	5.20	6.51	7.27	7.84	7.33	6.96	6.52	5.42	3.44	2.58	41.34	23.63	-	64.97	1/59	12/78
30° 43', 84° 52'			18	17	19	19	18	18	18	19	19	19	19	19						
			14	10	9	8	11	11	5	7	8	14	8	11	5	5		5		

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GEORGIA																				
Aily	9	0090	2.09	3.06	4.53	5.46	6.61	6.61	6.64	6.21	4.61	3.74	2.64	2.07	34.42	19.85	-	54.27	1/49	11/79
32° 11', 82° 34'			17	19	18	20	17	20	20	18	18	20	19	15						
			****	****	****	****	****	****	****	****	****	****	****	****	****	****		****		
Allatoona Dam	9	0181		3	3.87	5.06	5.77	6.27	6.55	5.97	4.71	3.46	2.32		32.73	-	-	-	5/52	11/78
34° 10', 84° 44'				7	12	25	27	27	27	27	27	26	16							
				****	****	14	11	12	14	14	13	13	****		6					
Athens College of Agric (Athens)	9	0432	2.76	3.20	4.82	6.12	7.13	7.49	7.63	6.83	5.65	4.21	3.03	2.53	38.94	22.46	-	61.40	6/53	6/71
33° 55', 83° 21'			14	15	17	16	17	18	16	17	17	18	17	18						
			14	18	14	10	11	12	9	11	17	14	14	18	6	5		3		
Calhoun Exp Station	9	1474			4.63	5.75	6.04	7.24	7.25	6.54	5.23	4.22	3	3	36.52	-	-	-	9/70	12/79
34° 29', 84° 58'					8	9	9	9	9	9	10	10	9	8						
					****	****	****	****	****	****	****	****	****	****	****					
Experiment	9	3271	2.57	3.10	4.78	6.26	7.53	7.96	7.58	6.95	5.61	4.32	3.04	2.36	39.95	22.11	-	62.06	10/36	11/79
33° 16', 84° 17'			30	32	35	43	43	41	43	42	43	44	41	35						
			****	16	14	11	13	14	11	10	12	12	9	12	5	5		5		
Rome WSO AP (Rome)	9	7610	1.77	2.76	3.85	5.29	6.37	6.69	6.85	6.02	5.05	3.76	2.32	1.54	34.74	17.53	-	52.27	1/49	3/68
34° 21', 85° 10'			11	16	15	18	17	16	18	18	19	17	18	12						
			****	****	****	12	11	****	16	14	13	16	20	****	****	****		****		
Savannah WSO AP	9	7847	3	3.67	5.69	7.42	7.76	7.91	8.29	7.21	5.75	5.12	3.42	3	42.04	26	-	68	6/65	11/79
32° 08', 81° 12'			9	11	13	12	13	14	13	14	13	13	13	9						
			****	****	****	****	****	****	****	****	****	****	****	****	****	****		****		
Tifton Exp Sta (Tifton)	9	8703	2.22	2.78	4.53	6.00	7.08	6.97	6.81	6.32	5.13	4.24	2.80	2.17	36.55	20.50	-	57.05	5/37	12/79
31° 29', 83° 32'			36	40	40	39	42	42	41	42	42	41	42	40						
			18	12	12	10	14	10	10	7	11	18	13	12	7	7		7		
HAWAII																				
Hilo WB Airport	49	1492	5.01	4.92	5.24	5.61	5.96	6.52	6.59	6.20	5.73	5.50	4.22	4.38	36.50	29.38	-	65.88	8/55	10/68
19° 43', 155° 04'			13	13	13	13	13	13	13	14	13	13	13	12						
			19	17	17	14	14	13	10	9	14	18	16	22	6	****		5		
Hoaeae	49	1527	3.56	3.85	4.73	5.44	5.99	6.37	7.00	7.00	5.88	5.28	3.88	3.57	37.52	25.03	-	62.55	8/19	11/38
21° 23', 158° 01'			18	18	18	18	18	18	19	20	20	20	20	19						
			****	****	****	****	****	****	****	****	****	****	****	****	****	****		****		

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TABLE I -- MEAN MONTHLY, SEASONAL, AND ANNUAL CLASS A PAN EVAPORATION (INCHES) FOR STATIONS WITH 10 YEARS OR MORE OF RECORD FOR BEST MONTH*

	State No.	Station Index No.**	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	May-Oct ***	Nov-Apr ***	Other Season ***	Annual ***	Record Began Mo/Yr	Latest Data Mo/Yr
HAWAII (continued)																				
Honolulu Obs.	49	1918	4.73	5.14	6.80	7.50	8.57	9.03	9.66	9.84	8.60	7.54	5.82	4.97	53.24	34.96	-	88.20	1/56	12/78
21° 19', 158° 00'			23	22	23	23	23	22	23	23	23	23	22	22						
			15	11	14	11	9	8	7	9	9	9	15	13	6	9		6		
Lihue WSO AP	49	5580	5.47	5.64	7.30	7.92	8.97	9.61	10.25	10.04	9.15	7.96	6.30	5.53	55.98	38.16	-	94.14	8/55	12/79
21° 59', 159° 21'			24	23	24	22	23	24	23	24	25	25	25	24						
			****	****	****	****	****	****	****	****	****	****	****	****	****	****		****		
Maunawili Ranch	49	none	3.10	3.13	3.91	3.75	4.11	4.08	4.37	4.36	3.87	3.57	3.15	2.99	24.36	20.03	-	44.39	2/20	9/30
21° 23', 157° 48'			10	11	11	11	11	11	11	11	11	10	10	10						
			****	****	****	****	****	****	****	****	****	****	****	****	****	****		****		
Pahala	49	7421	4.59	4.54	5.01	5.41	5.59	5.90	6.43	6.33	5.49	5.04	4.52	4.60	34.78	28.67	-	63.45	12/30	5/45
19° 12', 155° 29'			15	15	15	15	15	14	14	14	14	14	14	16						
			****	****	****	****	****	****	****	****	****	****	****	****	****	****		****		
IDAHO																				
Aberdeen Exp Sta	10	0010				5.19	7.56	8.48	9.88	8.84	6.03	3.61			44.40	-	-	-	5/35	12/79
42° 57', 112° 50'						15	43	43	42	43	44	30								
						****	16	14	6	13	13	12			7					
Lifton Pump Station	10	5275				4.19	6.35	7.52	9.02	7.96	5.54	3.15			39.54	-	-	-	5/35	12/79
42° 07', 111° 18'						24	40	45	45	45	44	33								
						****	12	13	6	8	12	****			****					
Mackay 4 NW	10	5466						8.88	10.65	9.11	6.92				-	-	35.56	-	7/67	8/79
43° 57', 113° 40'								12	14	14	10									
								****	****	****	****									
Milner Dam	10	none				4.85	6.82	8.11	9.47	8.59	5.72	3.05	2		41.76	-	-	-	4/27	7/45
42° 32', 114° 01'						19	19	19	19	18	18	18	6							
						****	****	****	****	****	****	****	****		****					
Minidoka Dam (Ruppert)	10	5980				7	8.17	10.82	13.02	11.48	8.30	4.79	3		56.58	-	-	-	5/49	5/62
42° 40', 113° 29'						8	14	13	13	13	13	13	6							
						****	****	****	****	****	****	****	****		****					
Moscow U of I (Moscow)	10	6152				4.39	5.42	6.18	8.46	7.60	4.50	3.20			35.36	-	-	-	6/39	12/79
46° 44', 116° 58'						26	34	41	41	41	40	12								
						21	21	11	7	17	17	****			****					
Palisades Dam (Palisades)	10	6764					5.81	7.20	9.45	8.45	5.54	4			40	-	-	-	5/49	9/75
43° 21', 111° 13'							21	25	26	26	26	6								
							24	23	16	16	22	****			****					

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	State No.	Station Index No.**	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	May-Oct ***	Nov-Apr ***	Other Season ***	Annual ***	Record Began Mo/Yr	Latest Data Mo/Yr
IDAHO (continued)																				
Twin Falls WSO	10	9303				7	8.62	9.13	10.36	9.11	6.68	4.49			48.39	-	-	-	5/63	10/79
42° 33', 114° 21'						9	17	17	17	17	17	13								
						****	****	****	****	****	****	****			****					
ILLINOIS																				
Carlyle Reservoir	11	1290				5.57	6.95	8.50	8.80	7.24	5.69	4.37			41.55	-	-	-	4/63	10/79
38° 38', 89° 20'						17	17	17	17	17	16	15								
						****	****	****	****	****	****	****			****					
Hennepin Power Plant	11	4013				5	6.98	8.32	8.28	6.56	6.21	4			41	-	-	-	5/63	9/79
41° 18', 89° 19'						7	15	17	15	15	13	8								
						****	****	****	****	****	****	****			****					
Springfield WSO AP	11	8179				5.50	7.12	8.41	8.95	7.42	6.21	4.55	2		42.67	-	-	-	5/41	10/79
39° 50', 89° 40'						28	34	35	35	35	35	35	7							
						16	16	17	17	15	17	16	****		9					
Urbana	11	8740				4.62	6.33	7.60	7.80	6.29	4.85	3.43			36.30	-	-	-	4/63	10/79
40° 06', 88° 14'						11	16	16	15	15	15	16								
						****	****	****	****	****	****	****			****					
Urbana Engineering Campus	11	8750				3.90	5.67	6.25	6.52	5.92	4.59	3.23			32.18	-	-	-	4/48	10/62
40° 07', 88° 14'						13	14	13	15	15	15	14								
						16	14	18	19	14	11	20			12					
INDIANA																				
Culver Exp Farm	12	1952					6.61	7.67	7.38	6.25	4.80	3.23			35.94	-	-	-	6/61	11/74
41° 10', 86° 28'							12	13	13	12	12	11								
							****	****	****	****	****	****			****					
Dubois S Ind Forage Farm	12	2309				5.62	6.29	7.02	7.15	6.35	4.89	3.85	2		35.55	-	-	-	9/56	10/79
38° 27', 86° 42'						19	23	23	23	22	22	22	7							
						16	12	9	9	10	13	17	****		6					
Evansville WSO AP	12	2738				5.14	6.66	7.86	8.05	7.07	5.40	3.88	2.52		38.92	-	-	-	4/49	10/79
38° 03', 87° 32'						29	31	31	31	31	31	30	12							
						15	11	13	9	12	20	18	****		8					
Kendallville	12	4492				4.25	5.65	6.45	6.80	6.10	4.38	2.96			32.34	-	-	-	1/49	4/72
41° 27', 85° 15'						20	21	21	22	23	23	22								
						17	11	11	9	11	18	18			6					

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TABLE I -- MEAN MONTHLY, SEASONAL, AND ANNUAL CLASS A PAN EVAPORATION (INCHES) FOR STATIONS WITH 10 YEARS OR MORE OF RECORD FOR BEST MONTH*

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INDIANA (continued)																				
Milan Waterworks (Milan)	12	5656				4	5.42	6	6.07	5.60	4.17	3.16			30	-	-	-	5/55	5/68
39° 07', 85° 08'						9	12	9	12	13	13	11								
						****	16	****	14	9	19	20			****					
Oaklandon Geist Reservoir (Indianapolis)	12	6506				3.76	4.96	5.71	6.15	5.31	4.01	2.62	1.66		28.76	-	-	-	6/37	10/79
39° 54', 85° 59'						40	42	43	43	42	42	43	16							
						19	12	10	13	8	18	15	****		7					
Valparaiso Waterworks	12	8999				3.66	5.38	6.14	5.94	4.92	3.23	2.95			28.56	-	-	-	4/60	9/79
41° 31', 87° 02'						10	20	20	19	20	20	19								
						14	14	10	9	11	23	29			9					
W. Lafayette 6 NW	12	9430				4.88	6.30	7.28	7.33	6.02	4.84	3.54	2		35.31	-	-	-	9/56	10/79
40° 25', 86° 56'						17	20	23	22	23	23	23	5							
						****	16	10	9	9	15	19	****		7					
IOWA																				
Ames 8 WSW	13	0200				6	7.39	8.65	8.59	7.12	5.43	4.32			41.50	-	-	-	4/65	10/79
42° 02', 93° 48'						8	15	15	15	15	15	13								
						****	****	****	****	****	****	****			****					
Ames 3 SW (Ames)	13	0205				4.84	6.82	7.76	8.47	7.13	5.26	3.71	2		39.15	-	-	-	4/33	10/70
42° 00', 93° 39'						35	38	38	38	38	38	38	6							
						20	15	15	14	8	13	25	****		10					
Burlington Radio KBUR	13	1060				5.25	7.00	8.30	9.04	7.25	5.46	4.13			41.18	-	-	-	4/65	10/79
40° 49', 91° 10'						14	15	15	15	15	15	15								
						****	****	****	****	****	****	****			****					
Castana Exp Farm (Castana 4E)	13	1277				5.65	7.10	8.12	8.34	7.23	5.40	4.23			40.42	-	-	-	5/56	9/79
42° 04', 95° 49'						13	18	18	18	18	18	16								
						20	21	25	22	21	30	33			20					
Cherokee	13	1442				4.19	6.01	6.92	7.86	6.66	5.03	3.45			35.93	-	-	-	8/37	11/53
42° 45', 95° 32'						15	15	15	15	16	16	16								
						****	****	****	****	****	****	****			****					
Dubuque WSO AP	13	2367				5.29	7.00	8.17	8.54	7.57	5.14	3.87			40.29	-	-	-	4/63	10/79
42° 24', 90° 42'						14	16	17	16	16	17	16								
						****	****	****	****	****	****	****			****					

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IOWA (continued)																				
Norwich Exp Farm (Norwich)	13	6119				6.09	7.21	8.45	9.18	7.63	6.15	4.60			43.22	-	-	-	4/38	10/66
40° 45', 95° 12'						18	22	21	22	22	21	20								
						****	****	****	****	****	****	****			****					
Shenandoah 1 NE	13	7613					7	8.79	8.68	8.07	5.96	4.23			43	-	-	-	5/66	10/79
40° 47', 95° 21'							9	10	10	10	10	10								
							****	****	****	****	****	****			****					
KANSAS																				
Cedar Bluff Dam	14	1383				8.23	9.60	12.29	13.31	11.89	9.09	6.47			62.65	-	-	-	8/49	9/78
38° 48', 99° 43'						24	29	29	29	30	30	23								
						14	18	19	15	14	22	26			13					
Colby 1 SW	14	1699				7.94	9.42	12.11	13.41	11.71	9.26				-	-	63.85	-	4/66	9/79
39° 23', 101° 04'						14	14	14	14	14	14									
						****	****	****	****	****	****									
Council Grove Dam	14	1867				6.86	8.18	9.24	10.68	9.48	6.62	5.26	3		49.46	-	-	-	6/64	9/78
38° 41', 96° 31'						12	14	15	15	15	15	14	5							
						****	****	****	****	****	****	****	****		****					
Elk City Dam	14	2430			4.59	6.26	6.90	8.13	9.22	8.30	5.61	4.43	2.44		42.59	-	-	-	4/64	10/79
37° 17', 95° 48'					10	16	16	16	16	16	16	16	12							
					****	****	****	****	****	****	****	****	****		****					
Fall River Dam	14	2686		4	5.58	7.49	8.31	9.22	10.61	10.09	7.47	5.59	3.46	2	51.29	-	-	-	8/48	9/78
37° 39', 96° 05'				5	22	30	30	29	30	31	31	30	23	9						
				****	31	18	20	11	17	21	27	21	25	****	14					
Garden City Exp Sta	14	2980				9.50	11.48	13.65	14.66	11.88	8.86	7.32			67.85	-	-	-	4/63	10/79
37° 59', 100° 49'						17	17	17	17	16	17	14								
						****	****	****	****	****	****	****			****					
Glen Elder Dam	14	3100				6.68	5.35	10.55	11.97	10.75	7.39	5.36			51.37	-	-	-	5/65	10/79
39° 30', 98° 19'						11	15	15	15	15	15	13								
						****	****	****	****	****	****	****			****					
Hays 1 S	14	3527				8.17	9.88	12.90	14.52	13.05	10.04	7.50			67.89	-	-	-	5/38	9/79
38° 52', 99° 20'						41	42	41	42	42	42	21								
						16	21	21	17	18	26	****			****					
John Redmond Dam	14	4104				6.88	7.68	8.62	10.13	8.86	5.98	4.71	3		45.98	-	-	-	9/60	9/78
38° 15', 95° 45'						17	18	18	18	18	19	18	9							
						11	23	8	12	24	12	28	****		13					

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KANSAS (continued)																				
Kanapolis Dam	14	4178				7.08	8.25	10.13	11.49	10.50	7.72	5.78	5		53.87	-	-	-	5/49	9/78
38° 36', 97° 37'						27	30	30	30	30	30	27	5							
						13	20	15	17	19	32	24	****		16					
Lovewell Dam	14	4857				6.49	7.51	8.83	10.05	9.25	6.13	4.44			46.21	-	-	-	7/58	10/79
39° 54', 98° 02'						20	21	21	22	22	21	20								
						14	16	11	11	15	19	21			9					
Manhattan Agronomy Farm	14	4977				6.19	7.38	8.98	10.31	9.27	7.31	4.77			48.02	-	-	-	5/25	9/29
39° 12', 96° 35'						23	30	30	30	30	30	25							4/38	10/62
						****	****	****	****	****	****	****			****					
Marion Dam	14	5039				6.73	7.87	9.49	11.27	9.97	6.84	5.39	3		50.83	-	-	-	5/66	10/79
38° 23', 97° 05'						13	14	14	14	14	14	14	7							
						****	****	****	****	****	****	****	****		****					
Milford Lake (or Dam)	14	5306				6.74	8.00	9.68	11.11	10.00	6.89	5.41			51.09	-	-	-	7/65	9/78
39° 05', 96° 53'						11	12	11	12	11	12	11								
						****	****	****	****	****	****	****			****					
Norton Dam	14	5852				7.49	9.02	11.05	12.42	10.78	7.66	5.71			56.64	-	-	-	4/63	10/79
39° 49', 99° 56'						16	16	17	17	17	16	15								
						****	****	****	****	****	****	****			****					
Perry Lake (or Dam)	14	6333				6.80	7.35	8.88	10.23	9.40	6.35	5			47	-	-	-	4/69	9/78
39° 07', 95° 25'						10	10	10	10	10	10	9								
						****	****	****	****	****	****	****			****					
Pomona Dam	14	6498				7.13	7.87	8.88	9.92	8.82	6.37	5.85			47.71	-	-	-	9/63	9/78
38° 39', 95° 34'						12	15	15	15	14	16	14								
						****	****	****	****	****	****	****			****					
Sabetha Lake	14	7073				5.44	6.82	7.48	8.25	7.67	5.32	4.11	2		39.65	-	-	-	4/56	10/79
39° 54', 95° 54'						22	24	24	24	24	24	24	6							
						12	14	10	12	11	23	26	****		10					
Toronto Dam	14	8191			4.72	6.44	7.48	7.96	9.58	8.66	5.76	4.52	2.49		43.96	-	-	-	4/56	9/78
37° 45', 95° 56'					14	23	23	23	23	23	22	22	17							
					****	18	21	8	18	19	28	23	23		12					
Tribune 1 W (Tribune)	14	8235				7.79	9.86	12.17	13.90	12.01	8.96	6.14			62.67	-	-	-	9/16	9/78
38° 28', 101° 46'						62	62	61	62	62	63	10								
						21	19	20	13	13	20	****			****					

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KANSAS (continued)																				
Tuttle Creek Lake (or Dam)	14	8259				6.29	7.75	8.61	9.98	8.82	5.89	4.82			45.87	-	-	-	9/59	9/78
39° 15', 96° 36'						15	16	19	18	18	19	16								
						****	****	11	13	5	15	****			****					
Webster Dam	14	8648				6.80	8.29	10.09	11.54	10.17	7.18	5.57			52.84	-	-	-	4/58	9/78
39° 25', 99° 25'						15	21	21	21	21	21	20								
						****	14	15	20	9	17	16			9					
Wichita	14	None				6.19	6.99	8.90	10	10	7.75	5.42			49	-	-	-	9/18	6/27
37° 40', 97° 18'						10	10	10	9	9	10	10								
						****	****	****	****	****	****	****			****					
Wilson Lake (or Dam)	14	8946				6.87	8.54	10.24	11.98	10.77	7.53	5.97			55.03	-	-	-	3/64	9/78
38° 58', 98° 29'						11	14	13	14	14	15	13								
						****	****	****	****	****	****	****			****					
KENTUCKY																				
Buckhorn Lake (Buckhorn)	15	1080				4.62	5.02	5.47	5.63	5.07	3.89	2.91			27.99	-	-	-	4/61	10/79
37° 21', 83° 23'						17	18	18	16	18	17	17								
						****	****	****	****	****	****	****			****					
Dewey Dam	15	2180					4.51	4.94	5.35	4.67	3.50	2.24			25.21	-	-	-	9/53	10/70
37° 45', 82° 47'							15	16	17	16	17	15								
							13	12	11	17	24	24			11					
Dix Dam	15	2214				5.33	6.14	6.47	6.93	6.34	5.01	3.62			34.51	-	-	-	4/54	9/79
37° 48', 84° 43'						23	25	26	26	26	24	20								
						15	9	10	8	10	10	13			5					
Eadsville (Lock 21)	15	None			3	4	4.98	5.86	5.99	4.90	3.64	2.51	1.59		27.88	-	-	-	5/37	11/46
36° 54', 84° 53'					9	9	10	10	10	10	10	10	10							
					****	****	****	****	****	****	****	****	****		****					
Madisonville	15	5067				5.83	6.86	7.56	7.84	6.91	5.06	4			38	-	-	-	4/56	9/79
37° 19', 87° 29'						22	24	24	24	24	24	5								
						14	8	11	7	11	15	****			****					
Nolin River Lake (or Reservoir)	15	5834				5.58	6.63	7.15	8.92	6.63	4.73	3.71			37.71	-	-	-	4/64	10/79
37° 17', 86° 15'						16	16	16	16	16	16	15								
						****	****	****	****	****	****	****			****					

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KENTUCKY (continued)																				
Wolf Creek Dam	15	8807	2	2	4	4.68	5.47	6.35	6.57	5.88	4.58	3.24	2	2	32.09	17	-	49	6/48	9/70
36° 52', 85° 09'			7	7	7	12	20	23	23	23	23	21	7	6						
			****	****	****	****	12	10	9	12	18	12	****	****	7	****		****		
LOUISIANA																				
Calhoun Exp Sta	16	1411	2	3.02	4.69	5.59	6.89	7.48	7.56	7.15	5.38	4.35	2.68	2.14	38.81	20	-	59	8/60	11/79
32° 31', 92° 20'			7	15	19	19	19	18	19	20	20	20	28	14						
			****	****	17	8	10	8	7	10	6	15	15	****	****	****		****		
LSU Ben-Hur Exp Sta	16	5620	2.31	3.34	4.85	6.43	7.18	7.72	6.69	6.36	5.47	5.23	3.42	2.54	38.65	22.89	-	61.54	3/63	12/79
30° 22', 91° 10'			9	16	17	14	15	16	16	16	17	15	17	15						
			****	****	****	****	****	****	****	****	****	****	****	****	****	****		****		
Woodworth State Forest	16	9865	1.72	2.16	3.50	4.56	5.82	6.17	6.16	5.80	4.46	3.68	2.10	1.68	32.09	15.72	-	47.81	1/57	9/75
31° 08', 92° 28'			14	18	18	17	17	17	17	18	18	17	17	16						
			22	18	15	13	18	12	14	16	12	14	12	23	9	10		8		
MAINE																				
Caribou WSO AP	17	1175					5.46	5.72	5.80	4.72	3.20	2			27	-	-	-	6/63	9/79
46° 52', 68° 01'							10	17	17	16	16	5								
							****	****	****	****	****	****			****					
New Gloucester	17	5686					6	4.97	6	5.50	3.85				-	-	26	-	6/63	9/79
43° 57', 70° 18'							9	10	9	12	11									
							****	****	****	****	****									
MARYLAND																				
Beltsville	18	0700				5.13	5.66	6.57	7.31	6.19	4.75	3.34	2.44		33.82	-	-	-	5/41	10/79
39° 02', 76° 53'						11	31	36	37	37	34	33	17							
						****	9	6	10	13	18	11	****		****					
Savage River Dam	18	8065				5	5.42	5.80	5.98	5.36	4.17	2.73			29.46	-	-	-	5/51	10/79
39° 31', 79° 08'						8	27	26	26	29	29	27								
						****	8	7	8	8	13	18			4					
Upper Marlboro 3 NNW	18	9070				4.62	5.67	6.31	6.68	5.85	4.12	2.99			31.62	-	-	-	4/56	10/79
38° 52', 76° 47'						17	22	23	23	22	22	20								
						****	11	8	9	13	11	11			3					

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MASSACHUSETTS																				
Rochester	19	6938				3.09	4.53	5.27	5.63	4.77	3.33	2.13			25.66	-	-	-	4/52	10/79
41° 47', 70° 55'						21	28	28	28	28	28	27								
						15	14	14	14	10	11	12			7					
MICHIGAN																				
Dearborn	20	2015				3.88	5.86	6.91	7.35	6.18	3.10	2.99			32.39	-	-	-	8/52	9/79
42° 18', 83° 14'						18	30	27	27	26	26	23								
						****	14	14	10	10	14	22			****					
East Lansing	20	2395				5	6.18	6.95	7.37	6.14	4.45	2.91			34.00	-	-	-	4/56	10/79
42° 43', 84° 28'						7	23	24	23	24	24	23								
						****	14	10	12	8	13	25			5					
Germfask Wildlife Refuge	20	3123					4.90	5.89	6.24	5.00	2.97	1.91			26.91	-	-	-	7/39	10/60
46° 17', 85° 57'							18	20	21	22	22	20								
							****	****	****	****	****	****			****					
Lake City Exp Farm	20	4502					5	6.11	6.43	5.31	3.43	2.34			29	-	-	-	5/60	9/79
44° 19', 85° 12'							8	17	16	18	17	12								
							****	****	****	****	****	****			****					
Lupton 1 SW	20	4967					4.80	5.17	5.62	4.46	2.87	1.82			24.74	-	-	-	5/51	10/79
44° 25', 84° 01'							24	29	29	29	29	26								
							16	10	17	14	14	40			9					
South Haven Exp Farm	20	7690				3.99	5.59	6.61	6.81	6.06	4.57	3.17			32.81	-	-	-	5/52	9/78
42° 24', 86° 17'						25	27	27	27	27	27	25								
						7	10	11	8	7	11	14			5					
MINNESOTA																				
Hoyt Lakes 5 N	21	3921					5.12	5.83	6.15	4.80	2.92	2			27	-	-	-	5/58	8/79
47° 35', 92° 08'							10	15	14	14	13	8								
							****	****	****	****	****	****			****					
Lamberton SW Exp Sta	21	4546				5	7.93	9.03	9.02	7.43	5.61				44	-	-	-	5/66	9/78
44° 15', 95° 19'						9	13	13	13	13	13									
						****	****	****	****	****	****				****					
Waseca Exp Sta	21	8692				6	6.43	8.38	8.47	6.73	5.07				-	-	41	-	4/64	9/79
44° 04', 93° 31'						5	15	15	15	15	15									
						****	****	****	****	****	****									

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MISSISSIPPI																				
Scott	22	7886	2.12	2.78	4.50	5.87	7.48	8.38	8.15	7.32	5.74	4.36	2.87	2.01	41.43	20.15	-	61.58	11/52	11/77
33° 36', 91° 05'			17	19	23	25	25	25	25	24	24	24	25	19						
			17	21	21	10	11	10	8	6	16	11	11	24	6	****		****		
State University	22	8374	2.28	3.81	4.59	5.99	7.24	7.62	7.77	7.30	5.75	4.49	3.01	2.25	40.17	21.93	-	62.10	10/48	11/79
33° 28', 88° 48'			24	26	29	31	31	31	31	31	31	32	32	26						
			22	20	18	10	11	9	13	12	16	13	12	11	8	****		****		
Tunica 2	22	8998				6.49	7.65	8.41	8.81	8.08	5.92	4.84	3.20		43.71	-	-	-	4/60	10/79
34° 41', 90° 23'						16	17	19	19	18	18	18	12							
						****	****	11	13	10	25	22	13		****					
MISSOURI																				
Columbia (Univ of Missouri)	23	1800				4.80	5.77	7.06	8.11	6.82	5.76	3.54	2		37.06	-	-	-	5/16	10/26
38° 59', 92° 28'						22	23	23	24	24	24	24	8						6/36	9/39
						****	****	****	****	****	****	****	****		****				6/44	10/52
Pomme De Terre Dam	23	6777				5.94	7.05	8.51	8.99	8.09	5.22	4.31			42.17	-	-	-	6/63	9/78
37° 55', 93° 19'						12	11	14	15	15	14	11								
						****	****	****	****	****	****	****			****					
St. Louis (Washington U)	23	7470				2.77	4.17	5.32	6.06	6.75	5.82	4.67	2.79	1.53	31.41	-	-	-	6/38	10/56
38° 39', 90° 19'						11	17	18	19	19	19	19	19	11						
						****	****	****	****	****	****	****	****	****	****					
Spickard 7 W	23	7963				5.25	6.07	7.01	8.00	6.98	4.88	3.78			36.72	-	-	-	4/59	10/79
40° 15', 93° 43'						15	17	20	17	19	20	17								
						****	****	11	****	8	8	****			****					
Weldon Springs	23	8805				4.85	6.07	7.39	7.28	6.49	4.88	3.72			35.83	-	-	-	4/57	9/74
38° 42', 90° 44'						10	13	13	17	18	17	14								
						****	14	8	14	9	13	18			****					
MONTANA																				
Babb 6 NE	24	0392					5.96	6.28	7.18	6.00	4.24				-	-	29.66	-	5/50	8/79
48° 56', 113° 22'							19	30	30	29	24									
							****	17	12	11	18									
Bozeman Agricultural College	24	1044				3.67	5.72	6.17	8.33	7.47	4.73	2.72			35.14	-	-	-	7/16	10/20
45° 40', 111° 03'						32	39	39	40	40	40	38							5/35	10/69
						15	15	19	9	14	20	15			9					

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MONTANA (continued)																				
Bozeman 6 W Exp Farm	24	1047				5	5.87	6.76	8.13	7.46	5.07	3			36	-	-	-	5/67	10/79
45° 40', 111° 09'						6	12	13	13	13	13	7								
						****	****	****	****	****	****	****			****					
Canyon Ferry P H	24	1470					5.23	6.38	8.33	7.31	4.59				-	-	31.84	-	5/56	9/79
46° 39', 111° 44'							23	24	24	24	24									
							14	21	10	10	31									
Dillon WMCE	24	2409					5.29	5.62	6.64	5.63	3.70	3			30	-	-	-	8/50	9/79
45° 12', 112° 38'							22	27	28	30	30	5								
							16	14	6	8	21	****			****					
Fort Assinniboine	24	3110				5.05	7.27	7.95	9.94	9.17	5.58				-	-	44.96	-	4/48	9/79
48° 30', 109° 48'						22	28	30	31	31	31									
						****	37	26	21	23	32									
Fort Peck	24	3175				7.47	7.70	9.61	9.28	6.73	4.41				-	-	45.20	-	5/35	9/56
48° 01', 106° 27'						14	22	22	22	22	15									
						****	****	****	****	****	****									
Fort Peck P H	24	3176					7.49	8.68	10.67	9.86	5.88	3.56			46.14	-	-	-	5/56	9/79
48° 01', 106° 24'							23	23	23	23	23	21								
							17	18	14	13	17	16			7					
Hungry Horse Dam	24	4328					5.07	5.82	7.98	6.77	3.48	2			31	-	-	-	8/48	9/79
48° 21', 114° 00'							31	31	31	32	31	9								
							19	13	12	20	23	****			****					
Huntley Exp Sta	24	4345				5.25	6.88	7.15	8.64	7.84	4.79				-	-	40.55	-	8/48	10/79
45° 55', 108° 15'						24	26	28	28	28	28									
						19	14	18	13	11	14									
Malta	24	5337					7.10	7.82	8.73	7.55	4.61	2.75			38.56	-	-	-	5/26	10/70
48° 21', 107° 52'							45	45	45	45	45	41								
							11	17	16	15	19	11			10					
Moccasin Exp Sta	24	5761				5	6.97	7.79	10.44	9.95	6.51				-	-	47	-	4/48	9/79
47° 03', 109° 57'						9	26	27	27	27	27									
						****	19	20	14	14	22									
Sherbourne Lake	24	7150					6.24	5.89	8.34	7.18	4.83				-	-	32.48	-	5/35	8/48
48° 50', 113° 31'							14	14	14	14	14									
							****	****	****	****	****									

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MONTANA (continued)																				
Sidney	24	7560				4.14	6.21	6.89	7.72	6.64	3.94	2.62			34.02	-	-	-	5/57	10/79
47° 44', 104° 09'						12	22	22	22	23	23	22								
						****	14	19	9	9	20	****			****					
Terry	24	8165					8.00	8.85	10.75	9.51	5.72	4			47	-	-	-	8/50	8/74
46° 48', 105° 18'							13	20	22	23	19	5								
							****	26	14	15	20	****			****					
Tiber Dam	24	8233				5	6.46	7.02	8.63	7.99	4.78	4			39	-	-	-	4/53	9/75
48° 19', 111° 05'						6	21	23	23	23	23	5								
						****	14	18	15	13	23	****			****					
Valier	24	8501					6.79	7.05	8.48	7.87	6.47	3.47			40.13	-	-	-	7/16	8/78
48° 19', 112° 15'							33	45	46	47	46	10								
							****	22	21	16	26	****			****					
Western Montana Br. Sta	24	8783					6	7	7.99	6.78	4.27				-	-	32	-	4/66	10/79
46° 20', 114° 04'							5	9	12	13	12									
							****	****	****	****	****									
Yellowtail Dam (Hardin)	24	9240					8.36	8.49	10.56	9.67	6.37	5.15			48.60	-	-	-	8/48	9/79
45° 19', 107° 56'							13	18	18	18	18	11								
							****	****	****	****	****	****			****					
NEBRASKA																				
Box Butte Exp Sta (or Farm)	25	1045				6	8.36	9.25	11.04	9.98	7.47	5.36			51.46	-	-	-	6/48	9/79
42° 08', 102° 57'						8	31	32	32	32	32	19								
						****	13	20	14	8	14	****			****					
Bridgeport	25	1145				5.18	6.81	8.02	9.19	8.08	5.78	3.69			41.57	-	-	-	5/31	9/78
47° 40', 103° 06'						41	48	48	48	48	48	44								
						17	15	13	11	9	11	19			8					
Enders Lake (or Dam)	25	2741				7.49	8.11	9.99	11.36	10.09	7.55	5.03			52.13	-	-	-	9/51	10/79
40° 45', 101° 41'						26	28	28	28	28	29	29								
						13	18	18	14	11	16	21			10					
Gavins Point Dam	25	3165				5	7.51	8.45	9.71	8.37	5.84	4.54			44.42	-	-	-	5/61	9/78
42° 51', 97° 29'						5	17	17	17	17	17	14								
						****	****	****	****	****	****	****			****					
Grand Island WSO AP	25	3395					8.49	10.73	11.14	9.56	6.75				-	-	46.67	-	4/63	9/79
40° 58', 98° 19'							17	16	15	17	17									
							****	****	****	****	****									

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NEBRASKA (continued)																				
Harlan Co Lake (or Dam)	25	3595				6.62	8.64	10.15	11.26	10.10	7.62	5.57			53.34	-	-	-	5/49	10/79
40° 05', 99° 12'						13	31	30	30	31	31	28								
						13	18	18	14	15	22	22			13					
Holdredge 1 E	25	3911					6.96	7.75	8.22	7.32	5.46				-	-	35.71	-	7/57	9/70
40° 26', 99° 20'							10	11	13	14	12									
							15	14	12	16	10									
Kingsley Dam	25	4455					6.91	8.21	9.77	8.52	5.91	4.03			43.35	-	-	-	8/38	10/79
42° 13', 101° 39'							35	40	40	41	41	33								
							14	18	11	8	12	****			****					
Lincoln Agron Farm	25	4790				5.06	6.93	8.39	9.96	8.40	6.44	4.33			43.82	-	-	-	4/17	9/68
40° 51', 96° 37'						41	48	48	50	51	50	46								
						****	20	18	19	14	15	35			12					
Mead Agronomy Lab	25	5362					7.65	9.19	9.62	7.93	5				-	-	40	-	4/69	9/78
41° 10', 96° 25'							10	10	10	10	9									
							****	****	****	****	****									
Medicine Creek Dam	25	5388				7.08	8.58	10.35	11.45	10.18	7.72	5.37			53.65	-	-	-	10/51	10/79
40° 23', 100° 13'						26	28	28	28	28	28	26								
						17	17	18	11	11	21	26			11					
Mitchell 5 E	25	5590				6.54	6.74	8.52	9.08	7.30	5.45	5			42	-	-	-	4/49	9/79
41° 57', 103° 41'						10	28	29	31	31	30	6								
						****	16	10	10	7	13	****			****					
Northeastern Nebr Exp Sta	25	6018					8.47	9.54	10.28	8.02	6.16				-	-	42.47	-	5/63	9/79
42° 43', 96° 57'							13	13	13	13	14									
							****	****	****	****	****									
North Platte Exp Farm	25	6075				6.28	9.30	9.42	11.22	9.93	7.40	6.53			53.80	-	-	-	5/49	10/79
41° 04', 100° 45'						24	28	30	30	30	30	14								
						19	16	15	15	10	18	****			****					
Omaha (North) WSFO	25	6260					7.80	8.82	8.70	7.94	5.75	4.81			43.82	-	-	-	6/58	9/79
41° 22', 96° 01'							20	22	22	22	23	17								
							14	10	10	7	13	13			3					
Red Willow	25	7110				7.29	8.82	10.35	11.49	10.16	7.38	5.55			53.75	-	-	-	4/62	7/79
40° 21', 100° 39'						17	18	18	18	17	17	14								
						****	****	****	****	****	****	****			****					

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	State No.	Station Index No.**	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	May-Oct ***	Nov-Apr ***	Other Season ***	Annual ***	Record Began Mo/Yr	Latest Data Mo/Yr
NEBRASKA (continued)																				
Rosemont 40° 16', 98° 22'	25	7330				7.59 14 ****	9.39 19 16	10.31 20 17	11.47 20 13	10.72 20 16	8.19 20 29	6.20 20 25			56.28 13	-	-	-	6/48	10/67
Trenton Dam 40° 10', 101° 04'	25	8628				7.17 22 17	8.74 25 18	10.49 25 21	12.06 26 12	10.98 26 13	8.01 26 22	5.46 24 23			55.74 13	-	-	-	5/54	10/79
Valentine Lakes Game Refuge 42° 35', 100° 41'	25	8755					6.83 27 16	7.69 30 13	8.67 30 11	7.74 29 8	5.94 25 16	4.51 12 ****			41.38 ****	-	-	-	6/48	8/79
NEVADA																				
Boulder City 35° 59', 114° 51'	26	1071	3.44 40 15	4.43 39 18	7.49 40 11	10.77 42 10	13.87 41 8	16.26 42 8	16.14 41 8	14.07 43 8	11.42 42 7	7.75 41 10	4.59 39 15	3.30 35 16	79.51 3	34.02 ****	-	113.53 ****	1/49	12/79
Central Nev Field Lab 39° 23', 117° 19'	26	1630				6 8 ****	9 8 ****	10.75 11 ****	12.25 10 ****	11 9 ****	8.61 10 ****	5.11 10 ****			57 ****	-	-	-	4/56	10/79
Fallon Exp Sta 39° 27', 118° 47'	26	2780			4.21 13 ****	5.75 13 ****	7.34 15 ****	8.52 16 ****	9.21 16 ****	7.86 16 ****	5.49 16 ****	3.75 15 ****	2.99 13 ****		42.17 ****	-	-	-	3/50	11/79
Lahonton Dam 39° 28', 119° 04'	26	4349				8 5 ****	9.78 15 ****	11.56 23 15	13.96 23 7	12.37 23 11	8.07 23 8	4.85 11 ****			60.59 ****	-	-	-	4/48	5/74
Lamoille Power House 40° 41', 115° 26'	26	4395				5 7 ****	6.29 24 ****	7.45 24 ****	9.78 24 ****	8.92 24 ****	6.40 24 ****	3.83 24 ****			42.67 ****	-	-	-	7/16	8/47
Ruby Lake 40° 12', 115° 30'	26	7123					7.78 10 ****	9.65 14 ****	10.94 15 ****	9.77 15 ****	5.97 16 ****	4 9 ****			48 ****	-	-	-	5/49	9/79
Rye Patch Dam 40° 28', 118° 18'	26	7192					8.55 25 ****	9.95 27 ****	12.80 27 ****	11.30 28 ****	8.12 24 ****	4.90 17 ****			55.62 ****	-	-	-	7/40	10/79
Silverpeak 37° 40', 117° 35'	26	7463				10 7 ****	11 8 ****	18.21 10 ****	17.72 10 ****	16 8 ****	12 9 ****	7 8 ****	3 6 ****		82 ****	-	-	-	3/68	11/79

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	State No.	Station Index No.**	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	May-Oct ***	Nov-Apr ***	Other Season ***	Annual ***	Record Began Mo/Yr	Latest Data Mo/Yr
NEVADA (continued)																				
Topaz Lake	26	8970				7	9.85	10.99	12.96	11.95	8.86	6.11			59.65	-	-	-	7/57	7/70
38° 41', 119° 02'						5	12	16	18	18	16	16								
						****	8	17	10	15	11	9			****					
NEW HAMPSHIRE																				
Lakeport 2	27	4480					5.08	5.85	6.58	5.73	3.93	2.74			29.91	-	-	-	5/52	10/79
43° 33', 71° 24'							20	25	25	25	25	17								
							****	12	10	7	7	17			****					
Massabesic Lake	27	5211				3	4.40	5.06	5.58	4.51	2.94	1.94	1		24.43	-	-	-	5/42	11/55
42° 59', 71° 24'						7	14	15	16	16	16	15	5							
						****	****	****	****	****	****	****	****		****					
NEW JERSEY																				
Canoe Brook	28	1335					4.78	4.92	5.52	4.65	3.38	2.19			25.44	-	-	-	4/31	9/79
40° 45', 74° 21'							40	44	44	44	43	37								
							18	12	20	13	17	12			9					
New Brunswick	28	6055					5.81	6.51	8.33	7.14	4.54	3.04			35.37	-	-	-	6/68	10/79
40° 28', 74° 26'							11	12	12	12	12	11								
							****	****	****	****	****	****			****					
Pleasantville	28	7131				4.15	5.63	5.85	6.58	5.67	4.01	2.68	1.95		30.42	-	-	-	4/37	6/58
39° 25', 74° 31'						13	21	22	21	21	21	21	14							
						****	****	****	****	****	****	****	****		****					
Runyun	28	7825					5.09	5.21	5.64	5.07	4.12	2.62	2		27.75	-	-	-	5/35	11/48
40° 26', 74° 20'							14	14	14	14	14	14	5							
							****	****	****	****	****	****	****		****					
NEW MEXICO																				
Abiquiu Dam	29	0041				7.83	10.21	11.83	10.79	9.50	7.59	5.66			55.58	-	-	-	4/64	12/79
36° 14', 106° 26'						13	16	16	16	16	16	16								
						****	****	****	****	****	****	****			****					
Agricultural College	29	0131	3.01	4.44	7.69	10.01	11.75	13.01	11.95	10.27	8.36	6.17	3.89	2.73	61.51	31.77	-	93.28	10/18	12/48
32° 17', 106° 45'			36	36	36	36	36	36	36	36	36	37	37	37						
			****	****	****	****	****	****	****	****	****	****	****	****	****	****		****		

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NEW MEXICO (continued)																				
Alamogordo Dam	29	0205	3.82	4.66	8.51	11.12	13.18	14.95	14.25	12.38	10.14	7.35	4.87	3.79	72.25	36.77	-	109.02	1/39	11/73
34° 36', 104° 23'			24	31	31	35	36	36	36	36	36	36	31	26						
			****	23	19	13	11	10	11	12	19	19	17	****	8	****		****		
Animas	29	0417				10.98	14.38	14.40	12.87	11.19	8.62	6.77			68.23	-	-	-	1/67	11/79
31° 57', 108° 49'						12	10	11	12	13	10	10								
						****	****	****	****	****	****	****			****					
Bitter Lakes Wild Rfg.	29	0992	2.92	4.34	7.28	10.14	11.73	12.94	12.37	10.83	8.46	6.20	3.63	2.72	62.53	31.03	-	93.56	1/51	10/79
33° 29', 104° 24'			17	23	24	24	24	21	25	24	22	22	20	18						
			35	20	18	8	10	10	15	8	14	19	17	26	6	****		****		
Bosque del Apache	29	1138	3.57	3.52	7.79	10.38	11.38	13.41	11.48	10.52	8.12	6.56	3.31	2.84	61.47	31.65	-	93.39	1/49	10/73
33° 46', 106° 54'			12	16	16	14	16	17	18	17	17	17	12	14						
			****	****	****	5	6	3	6	12	17	13	13	****	5	****		****		
Caballo Dam	29	1886	4.45	5.41	9.05	12.20	14.23	16.19	13.66	12.00	9.75	7.28	4.92	3.51	73.11	39.54	-	112.65	3/42	10/79
32° 54', 107° 18'			32	34	37	36	36	36	37	37	37	37	33	33						
			24	15	16	7	8	7	8	10	16	16	16	24	6	7		6		
Capulin Nat'l Mon	29	1454					9.73	10.90	10.24	9.41	8.22				-	-	48.50	-	5/63	9/79
36° 47', 103° 58'							12	14	13	12	12									
							****	****	****	****	****									
Clovis 13 N	29	1963		4.07	6.94	9.10	10.56	11.83	11.56	9.87	8.09	6.19	4.43	3.73	56.39	-	-	-	4/51	11/79
34° 36', 103° 13'				14	24	28	28	28	28	28	29	29	27	12						
				23	26	12	16	14	17	15	22	15	23	24	12					
Eagle Nest	29	2700					7.55	8.25	7.62	6.74	5.76				-	-	35.92	-	8/34	9/79
36° 33', 105° 16'							25	32	35	36	33									
							****	****	12	17	19									
El Vado Dam	29	2837					8.06	9.36	8.89	7.38	6.29	4.68	4.38		44.66	-	-	-	7/36	10/75
36° 36', 106° 44'							32	38	39	39	39	22	13							
							15	10	12	18	25	****	****		****					
Elephant Butte Dam	29	2848	3.28	4.85	8.53	11.75	14.45	16.17	13.64	11.63	9.72	7.70	4.75	3.21	73.31	36.37		109.68	4/16	12/79
33° 09', 107° 11'			63	63	63	63	64	64	63	64	64	64	63	62						
			25	16	17	8	9	6	8	10	18	14	18	17	6	8		6		
Estancia	29	3060					9.00	8.97	8.29	7.40	5.90				-	-	39.56	-	5/66	9/79
34° 45', 106° 04'							10	12	12	11	12									
							****	****	****	****	****									

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NEW MEXICO (continued)																				
Farmington 4 NE	29	3134				7.33	8.37	10.42	10.01	8.89	6.62				-	-	51.64	-	3/49	9/79
36° 45', 108° 10'						12	17	19	18	18	18									
						****	9	11	9	13	10									
Florida	29	3225	3.84	4.79	8.02	10.93	13.07	14.86	11.91	10.29	8.63	6.80	4.45	4.07	65.56	36.10	-	101.66	10/38	9/79
32° 36', 107° 29'			21	35	35	38	36	36	37	38	38	38	34	28						
			****	****	****	****	****	****	****	****	****	****	****	****	****	****		****		
Jornada Exp Range	29	4426	3.00	4.35	7.38	10.23	12.12	13.32	10.88	9.87	7.89	5.94	3.75	2.72	60.02	31.43	-	91.45	1/53	8/79
32° 37', 106° 44'			23	24	26	27	27	26	27	26	25	25	24	21						
			37	28	19	14	9	14	26	11	11	19	31	44	10	21		14		
Lake Avalon	29	4736	4.77	5.78	9.46	12.49	14.47	15.76	14.50	12.57	9.38	7.71	5.45	4.42	73.62	42.21	-	115.83	12/51	10/78
32° 29', 104° 15'			20	25	26	26	26	26	26	25	26	26	23	18						
			29	15	18	13	9	11	14	10	12	18	20	20	8	****		****		
Los Lunas	29	5150				8.24	9.95	10.98	10.38	9.18	6.66	4.68			51.83	-	-	-	3/62	11/79
34° 46', 106° 45'						17	17	16	17	17	16	16								
						****	****	****	****	****	****	****			****					
Navajo Dam	29	6061				7.32	10.42	11.81	11.76	10.01	7.45	5.40			56.85	-	-	-	8/36	10/79
36° 49', 107° 37'						20	23	22	23	24	23	24								
						****	****	****	****	****	****	****			****					
Portales 7 WNW	29	7014	3.36	4.30	8.04	9.20	10.66	12.57	11.82	10.90	8.42	6.24	4.58	3.40	60.61	32.88	-	93.49	4/34	8/60
34° 11', 103° 21'			23	24	26	27	27	27	27	27	26	26	25	24						
			****	****	****	****	****	****	****	****	****	****	****	****	****	****		****		
Roswell	29	7609	2.79	4	6	8.25	10.61	11.01	9.60	8.67	6.58	3.84	2.93		48.31	-	-	-	2/40	1/51
33° 18', 104° 32'			10	9	9	10	10	10	10	10	10	10	10							
			****	****	****	****	****	****	****	****	****	****	****		****					
Santa Fe	29	8072	1.49	2.13	3.91	6.39	8.98	10.75	9.52	8.09	6.97	4.89	2.51	1.39	49.20	17.82	-	67.02	6/16	11/55
35° 40', 105° 55'			17	17	18	19	30	36	36	36	37	36	20	17						
			****	****	****	****	****	13	9	17	16	21	****	****	****	****		****		
State University	29	8535	3.03	4.29	7.48	10.14	12.44	13.42	12.04	10.56	8.13	6.14	3.78	2.76	62.73	31.48	-	94.21	1/56	12/79
32° 17', 106° 45'			24	4	24	24	24	24	24	24	24	24	24	24						
			19	8	13	4	7	5	8	9	10	12	15	19	4	7		4		
Tucumcari 3 NE	29	9156				10.55	12.21	13.28	16.91	11.23	11.23	8.92			-	-	73.10	-	4/56	9/79
35° 12', 103° 41'						21	22	22	22	22	22	22								
						****	****	****	****	****	****	****								

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NEW MEXICO (continued)																				
Ute Dam	29	9284			8.22	8	10.66	10.76	11.01	9.60	7.12	6.25	4.93		55.40	-	-	-	2/65	11/79
35° 21', 103° 27'					10	9	11	14	14	15	14	14	10							
					****	****	****	****	****	****	****	****	****		****					
NEW YORK																				
Aurora Research Farm	30	0331					5.26	6.36	6.98	5.78	4.04	2.79			31.21	-	-	-	5/57	5/78
42° 44', 76° 39'							22	21	21	21	21	20								
							13	8	13	11	13	20			8					
Boonville 2 SSW	30	0785					5.23	5.92	6.47	5.36	3.40	2.69			29.07	-	-	-	5/50	10/73
43° 27', 75° 21'							22	24	24	24	24	22								
							11	13	16	11	8	21			9					
Canton 4 SE (Canton 3 SE)	30	1185					5.83	7.33	6.93	5.57	3.65	2.65			31.96	-	-	-	7/62	9/79
44° 34', 75° 07'							14	16	17	17	17	13								
							****	****	****	****	****	****			****					
Downesville Dam	30	2169					4.66	5.09	5.51	4.88	3.32	2.15			25.61	-	-	-	5/59	10/79
42° 05', 74° 58'							21	20	20	21	21	21								
							18	12	14	9	12	20			9					
Geneva Res Farm (or Exp Sta)	30	3184				4	5.59	6.70	7.60	6.03	4.10	2.73			32.75	-	-	-	5/61	10/79
42° 53', 77° 02'						8	16	16	15	15	15	14								
						****	****	****	****	****	****	****			****					
Greenport Power House	30	3464					5	5.50	6.18	5.20	3.95	3.30			29	-	-	-	6/59	10/79
41° 06', 72° 22'							8	14	15	16	13	12								
							****	****	****	****	****	****			****					
Lockport 4 NE	30	4849				4	4.77	5.87	6.42	5.40	3.68	2.35			25.62	-	-	-	6/61	10/79
43° 12', 78° 38'						7	18	19	19	19	19	18								
						****	****	12	14	9	12	****			****					
Mineola 1 W	30	5377			3	4.82	6.31	7.19	8.00	6.73	5.32	3.74	2		37.29	-	-	-	4/56	10/67
40° 44', 73° 38'					7	12	12	12	12	12	11	12	8							
					****	****	****	****	****	****	****	****	****		****					
Mt. Pleasant Farm	30	5604					5.09	5.90	6.35	5.49	3.83	2.55			29.21	-	-	-	5/57	10/77
42° 27', 76° 22'							21	21	21	21	21	21								
							15	9	12	10	13	16			7					
New York Central Park	30	5801				4.11	5.06	6.02	7.86	5.88	4	3.01	2		32	-	-	-	4/44	10/58
40° 47', 73° 58'						7	15	14	14	14	9	15	6							
						****	****	****	****	****	****	****	****		****					

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NEW YORK (continued)																				
Voorheesville	30	None					5.05	5.57	6.16	5.20	3.52	2.30			27.80	-	-	-	8/17	10/41
42° 39', 73° 54'							24	24	24	25	25	25								
							****	****	****	****	****	****			****					
NORTH CAROLINA																				
Cataloochee	31	1564				3.58	3.86	4.08	4.14	3.94	2.88	2.39			21.39	-	-	-	4/66	10/79
35° 37', 83° 06'						10	12	12	13	13	12	11								
						****	****	****	****	****	****	****			****					
Chapel Hill 2 W (Chapel Hill)	31	1677	1.55	1.84	3.58	4.85	5.60	6.14	6.20	5.64	4.48	3.15	1.99	1.43	31.21	15.24	-	46.45	4/21	10/79
35° 55', 79° 06'			25	26	49	56	57	58	58	57	58	57	54	30						
			****	****	23	12	11	9	13	12	17	17	13	****	7	****		****		
Lumberton 6 NW	31	5177	2.52	2.78	4.83	6.65	7.23	7.42	7.63	6.86	5.23	4.24	2.77	1.96	38.61	21.51	-	60.12	1/62	11/79
34° 42', 79° 04'			10	13	15	16	17	17	17	17	18	18	18	12						
			****	****	****	****	****	****	****	****	****	****	****	****	****	****		****		
Maysville, (Hoffman Forest)	31	5420	1.81	2.57	3.97	5.65	6.55	6.54	6.88	6.16	4.54	3.35	2.24	1.58	34.02	17.82	-	51.84	1/50	12/79
34° 50', 77° 18'			20	25	30	30	30	29	29	29	30	30	30	25						
			12	11	13	6	8	9	8	12	10	11	10	19	5	3		****		
Murphy	31	6001	1.09	1.46	2.90	4.19	5.16	5.57	5.07	5.05	3.87	2.77	1.60	1.02	27.49	12.26	-	39.75	12/34	7/76
35° 04', 84° 00'			35	38	41	42	42	41	42	41	41	41	40	36						
			30	20	19	14	11	10	9	10	12	17	15	26	6	12		5		
W. Kerr Scott Reservoir	31	9555				5	5.42	5.91	5.91	5.53	4.19	3.21	2		30.17	-	-	-	5/65	10/79
36° 08', 81° 14'						9	15	15	15	15	15	13	5							
						****	****	****	****	****	****	****	****		****					
NORTH DAKOTA																				
Carington 4 N	32	1362					8.15	8.46	8.70	8.20	6.15	4			43	-	-	-	5/67	9/79
47° 31', 99° 07'							10	13	13	12	13	6								
							****	****	****	****	****	****			****					
Devils Lake KDLR (or WB city)	32	2158				3.57	6.08	6.00	6.94	6.17	3.96	3			32	-	-	-	5/51	10/70
48° 07', 98° 52'						13	16	19	18	18	19	5								
						****	17	19	11	15	22	****			****					
Edgeley Exp Farm	32	2482				4.35	6.66	6.98	7.78	7.55	3.88				-	-	37.20	-	9/50	7/69
46° 20', 98° 42'						12	19	19	19	18	17									
						****	13	16	8	16	13									

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NORTH DAKOTA (continued)																				
Fargo WSO AP	32	2859					7.25	7.73	8.87	7.76	5.36	4			41	-	-	-	4/63	9/79
46° 54', 96° 48'							14	16	15	16	15	9								
							****	****	****	****	****	****			****					
Riverdale	32	7585				6	7.31	7.81	9.09	8.69	6.03	4.15			43.08	-	-	-	7/49	9/79
47° 30', 101° 21'						7	28	30	31	31	30	15								
						****	****	****	****	****	****	****			****					
Williston	32	9430					7.02	7.89	9.34	9.07	5.68	4			43	-	-	-	8/56	9/79
48° 08', 103° 45'							22	23	23	23	23	5								
							****	****	****	****	****	****			****					
OHIO																				
Charles Mill Lake (or Dam)	33	1466				3.59	4.98	5.90	6.21	5.48	4.01	2.65			29.23	-	-	-	4/39	10/79
40° 44', 82° 22'						39	41	41	41	41	41	41								
						19	16	9	10	8	12	17			7					
Columbus University Farm	33	1782				5	5.69	6.83	7.27	6.23	4.76	3.29			34.07	-	-	-	4/58	10/70
40° 00', 83° 03'						8	13	14	13	14	13	12								
						****	15	11	15	11	34	27			11					
Columbus (Ohio State Univ)	33	1788				3.33	4.45	5.29	5.66	4.79	3.53	2.14			25.86	-	-	-	6/18	11/55
40° 00', 83° 00'						35	36	37	38	38	37	38								
						****	****	****	****	****	****	****			****					
Coshocton Agric Rsch Station	33	1905				4.99	6.01	6.71	7.05	6.21	4.72	3.59			34.29	-	-	-	4/56	9/79
40° 22', 81° 48'						13	23	24	23	24	21	20								
						****	****	****	****	****	****	****			****					
Dayton	33	2067				4.04	5.65	6.77	7.06	6.20	4.63	2.86			33.17	-	-	-	4/37	10/69
39° 45', 84° 10'						32	31	32	32	32	32	32								
						18	15	7	11	10	9	16			6					
Deer Creek	33	2090				5	6	7	6.63	6	3.67	3			32	-	-	-	6/70	11/79
39° 30', 83° 13'						7	9	9	10	9	10	10								
						****	****	****	****	****	****	****			****					
Senecaville Lake (or Dam)	33	7559				4.35	5.52	6.32	6.35	5.73	4.30	2.99			31.21	-	-	-	4/39	10/79
39° 55', 81° 26'						34	38	38	38	39	39	37								
						20	14	10	24	7	15	38			8					
Tom Jenkins Lake	33	8378				4	5.08	5.39	5.45	4.72	3.61	2.52	1		26.77	-	-	-	7/53	11/79
39° 33', 82° 04'						9	26	26	27	27	27	26	7							
						****	12	9	11	10	11	15	****		6					

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OHIO (continued)																				
Wooster Exp Station	33	9312				4.03	5.23	6.31	6.80	5.81	4.35	2.71			31.21	-	-	-	7/16	10/79
40° 47', 81° 36'						36	48	48	49	49	51	50								
						19	17	10	12	10	12	21			8					
OKLAHOMA																				
Altus Dam	34	0184		3.89	5.73	8.23	9.71	11.43	12.29	11.48	8.14	6.47	4.65	4	59.52	-	-	-	3/48	10/79
34° 53', 99° 18'				12	24	30	28	31	30	30	26	24	14	9						
				****	****	21	10	18	15	11	****	****	****	****	****					
Atoka Dam	34	0394				7.75	7.60	8.78	10.53	9.82	6.98	5.67	3.92		49.38	-	-	-	6/63	11/79
34° 27', 96° 04'						12	16	17	17	17	16	16	15							
						****	****	****	****	****	****	****	****		****					
Broken Arrow Dam	34	1168		3	4.79	6.15	7.12	8.12	8.92	8.40	5.91	4.66	2.95	2.01	43.13	-	-	-	9/64	10/79
34° 08', 94° 42'				9	13	15	15	15	14	15	16	15	13	11						
				****	****	****	****	****	****	****	****	****	****	****	****					
Canton Dam	34	1445	3	4.00	6.71	7.96	8.40	9.98	11.53	10.93	8.23	6.06	4.03	2.48	55.13	27.75	-	82.88	3/48	7/79
36° 05', 98° 36'			6	10	22	29	32	32	31	31	31	30	23	12						
			****	****	31	15	19	13	18	21	33	23	20	30	17	****		****		
Chickasha Exp Station	34	1750					9.38	11.27	11.79	10.33	7.45	5.56	4		55.78	-	-	-	6/53	10/79
35° 03', 97° 55'							21	25	26	26	26	26	6							
							18	13	16	14	19	16	13		9					
Fort Gibson Dam	34	3286	2.00	2.87	4.73	6.43	7.14	8.60	9.25	8.77	6.51	5.06	3.26	2.23	44.27	21.52	-	65.79	3/48	7/79
35° 52', 95° 14'			21	26	30	32	32	32	32	31	31	31	30	24						
			23	16	26	14	15	7	11	13	19	15	16	15	8	11		8		
Fort Supply Dam	34	3304	3	6	6.87	9.26	9.92	11.99	12.77	11.87	9.01	6.58	4.36	2.72	62.14	32	-	94	7/40	12/79
36° 33', 99° 35'			6	8	18	31	39	39	40	40	40	39	23	11						
			****	****	34	17	13	13	28	15	24	25	22	****	12	****		****		
Goodwell Research Station	34	3628				10	11.51	13.33	14.46	12.07	9.42	7.33			68.12	-	-	-	4/48	9/79
36° 31', 101° 37'						9	24	29	31	31	30	20								
						****	20	16	15	14	20	25			****					
Grand River Dam	34	3700			5.21	6.98	7.33	8.94	9.63	9.22	6.84	5.05	3.29	2.00	47.01	-	-	-	4/41	11/77
36° 28', 95° 03'					12	25	30	34	35	36	35	36	16	10						
					****	18	22	13	13	22	29	17	****	****	****					
Great Salt Plains Dam	34	3740			6.26	7.38	9.06	11.52	13.05	11.80	8.45	6.42	3.93		67.68	-	-	-	3/48	10/79
36° 45', 98° 08'					12	24	29	29	30	30	31	30	14							
					****	****	16	18	20	14	20	22	****		****					

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OKLAHOMA (continued)																				
Heyburn Dam	34	4098			5.13	6.90	6.57	8.05	8.94	8.26	6.57	4.86	2.99	2	43.25	-	-	-	4/49	11/64
35° 57', 96° 17'					11	12	13	13	14	14	14	14	11	6						
					****	****	****	****	****	****	****	****	****	****	****					
Keystone Dam	34	4812			5	6.73	6.83	8.77	9.77	8.89	6.16	5.04	3.27		45.46	-	-	-	9/59	10/79
36° 09', 96° 15'					9	18	17	20	19	20	21	19	13							
					****	15	****	10	14	14	15	18	****		****					
Lake Overholser	34	4978				6.15	7.60	8.60	9.45	8.71	6.44	4.67			45.47	-	-	-	4/52	8/79
35° 29', 97° 40'						20	23	24	25	26	25	23								
						17	23	15	15	17	24	16			11					
Norman University	34	6391			5.19	5.90	6.57	9.03	9.15	8.70	6.81	4.72	2.69		44.98	-	-	-	5/37	6/56
35° 13', 97° 26'					12	18	18	19	18	18	19	18	13							
					****	****	****	****	****	****	****	****	****		****					
Oologah Dam	34	6729		3	5.52	7.06	8.22	9.04	11.57	10.30	7.00	5.52	3.26	2	51.65	-	-	-	8/56	8/79
36° 26', 95° 41'				8	15	22	22	23	22	24	23	23	19	8						
				****	33	29	17	15	14	16	14	20	26	****	10					
Stillwater 2 W	34	8501				7.78	8.13	9.80	11.20	10.00	7.68	5.93	4		52.74	-	-	-	6/48	10/79
36° 07', 97° 05'						14	24	27	29	28	27	27	7							
						****	18	12	21	17	12	16	****		11					
Tenkiller Ferry Dam	34	8769			4.72	5.92	6.51	7.64	8.79	8.33	6.04	4.51	2.91	1.68	41.82	-	-	-	4/49	6/79
35° 36', 95° 03'					22	30	30	31	30	30	30	29	26	15						
					27	13	11	8	10	16	21	21	19	****	9					
Tipton 4 S	34	8879	3	4.14	6.55	8.56	10.01	12.35	13.12	11.80	8.84	6.50	3.94	3.33	62.62	29.46	-	92.08	7/38	10/78
34° 26', 99° 08'			7	10	28	39	39	40	41	41	40	38	29	13						
			****	****	31	19	19	12	17	12	20	22	26	40	11	****		****		
Wister Dam	34	9724	2.52	2.65	4.73	5.89	6.38	7.78	8.46	7.67	5.79	4.35	2.93	2.27	40.43	20.99	-	61.42	1/48	6/79
34° 56', 94° 43'			11	19	25	26	28	28	27	27	26	26	26	16						
			****	****	****	14	12	13	9	13	15	18	18	****	9	****		****		
Woodward Field Station	34	9762				6.75	7.78	9.40	10.74	9.63	7.09				-	-	51.39	-	4/48	6/79
36° 25', 99° 24'						30	31	31	31	31	31									
						18	18	14	14	14	25									
OREGON																				
Astor Exp Station	35	0318	1	1.05	1.64	2.34	3.92	4.10	4.75	4.32	3.11	1.76	1	1	21.96	8	-	30	1/49	10/73
46° 09', 123° 49'			6	11	11	10	11	11	11	11	11	11	9	9						
			****	****	****	****	****	****	****	****	****	****	****	****	****	****		****		

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OREGON (continued)																				
Corvalis State College 44° 38', 123° 12'	35	1862				3.10 57 18	4.51 57 19	5.50 59 17	7.34 59 11	6.55 59 14	4.36 59 15	2.11 26 28			30.37 10	-	-	-	10/17	11/79
Cottage Grove Dam 43° 43', 123° 03'	35	1902			2.23 14 ****	3.08 15 ****	4.85 30 20	5.82 35 14	7.98 35 12	6.86 35 14	4.59 34 15	2.22 27 9			32.22 10	-	-	-	8/43	8/78
Detroit Dam 44° 43', 122°• 15'	35	2292			1.95 10 ****	2.70 16 ****	4.67 24 23	6.20 24 19	8.26 24 15	6.79 24 20	4.44 24 20	2.20 24 14	1.80 10 ****		32.56 12	-	-	-	1/56	10/79
Dorena Dam 43° 47', 122° 58'	35	2374				2.68 15 ****	3.56 27 15	5.54 29 17	7.06 29 12	7.72 29 14	6.08 28 16	3.88 22 14	2.20 10 ****		33.84 10	-	-	-	5/50	8/78
Fern Ridge Dam 44° 07', 123° 18'	35	2867	0.36 11 ****	0.90 18 ****	2.02 23 36	3.13 28 18	5.10 36 19	6.18 36 15	8.29 36 10	7.07 36 15	4.81 36 17	2.12 28 18	1.14 16 ****	0.37 10 ****	33.57 11	7.92 ****	-	41.49 ****	8/43	11/79
Lookout Point Dam 43° 55', 122° 46'	35	5050			2.81 11 ****	3.48 14 ****	5.04 24 23	6.25 24 16	8.07 24 13	7.27 24 17	4.87 24 21	2.59 24 16			34.09 12	-	-	-	5/56	10/79
Malheur Branch Exp Station 43° 39', 117° 01'	35	5160				5.18 26 18	7.03 31 21	8.42 31 18	10.79 31 14	8.99 31 16	5.58 31 14	2.52 31 24			43.33 13	-	-	-	4/49	10/79
Malheur Refuge Headquarters 43° 17', 118° 50'	35	5162						8.77 14 14	10.81 13 ****	9.53 14 10	6.39 11 ****				-	-	35.50	-	5/61	9/79
Medford Exp Station 41° 18', 122° 52'	35	5424	0.63 15 32	1.07 32 23	2.36 32 17	3.77 42 17	5.62 42 11	6.91 42 13	8.71 42 9	7.22 42 8	4.54 43 6	1.98 43 22	0.78 34 30	0.56 26 ****	34.98 5	9.17 ****	-	44.15 ****	9/37	10/79
Moro 45° 29', 120° 43'	35	5734				5.20 22 18	7.69 22 17	9.93 22 7	12.67 22 8	11.26 22 16	6.93 22 13	3.60 21 18			52.08 8	-	-	-	4/57	10/79
N. Willamette Exp Station 45° 17', 122° 45'	35	6151	1 5 ****	1.44 10 ****	2.65 12 ****	3.49 15 ****	5.75 16 ****	6.68 15 ****	8.16 16 ****	7.19 16 ****	5.07 16 ****	2.63 16 ****	1.14 10 ****	1 7 ****	35.48 ****	11 ****	-	46 ****	2/63	11/79

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OREGON (continued)																				
Pelton Dam	35	6532				4.71	6.79	8.41	10.21	8.31	5.39	2.59			41.70	-	-	-	6/57	5/74
44° 44', 121° 14'						16	16	16	16	15	16	15								
						14	12	11	8	11	8	13			4					
Summer Lake 1 S	35	8173					7.49	8.87	11.21	9.71	6.58	3.48			47.34	-	-	-	5/61	10/79
42° 54', 120° 49'							19	19	19	19	19	19								
							15	12	10	12	8	15			7					
Warm Springs Reservoir	35	9046				5.23	7.63	8.94	12.15	10.66	6.82	3.69			49.89	-	-	-	5/27	9/74
43° 34', 118° 12'						29	47	48	47	48	47	16								
						****	17	14	9	12	12	****			****					
Wickiup Dam	35	9316				4	5.66	6.79	8.54	7.05	4.88	2.55			35.47	-	-	-	5/41	10/79
43° 41', 121° 41'						5	39	39	39	39	39	18								
						****	12	12	10	13	10	****			****					
PENNSYLVANIA																				
Bellefonte 4 S	36	530					7	7.15	7.55	6.28	4.84	3			36	-	-	-	6/56	9/73
40° 51', 77° 47'							9	10	11	12	11	5								
							****	8	11	11	11	****			****					
Confluence	36	1705				3.74	4.80	5.43	5.53	4.63	3.47	1.37			25.23	-	-	-	4/49	9/79
39° 48', 79° 22'						30	31	31	31	31	30	26								
						12	13	8	12	9	12	13			6					
Ford City 4 S Dam	36	2942					4.89	5.32	5.85	4.90	3.56	2.29			26.81	-	-	-	5/49	10/79
40° 43', 79° 30'							30	31	31	31	31	30								
							13	9	13	9	14	13			6					
Francis E. Walter	36	3018					5.58	5.85	6.37	5.30	3.84				-	-	26.94	-	5/63	9/79
41° 07', 75° 44'							16	17	17	17	17									
							****	****	****	****	****									
Jamestown 2 NW	36	4325				4.29	4.58	5.58	4.70	3.17	2.34				-	-	24.66	-	5/42	9/79
41° 30', 80° 28'						23	37	37	37	39	18									
						14	8	11	12	10	24									
Landsville 2 NW	36	4778					5.74	6.61	7.17	5.91	4.31	2.89			32.63	-	-	-	5/52	10/79
40° 07', 76° 26'							19	25	27	28	28	20								
							14	8	11	12	10	24			5					

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RHODE ISLAND																				
Kingston	37	4266					4.91	5.33	5.67	4.95	3.73	2.84			27.43	-	-	-	4/57	10/79
41° 29', 71° 32'							21	23	23	23	23	22								
							11	11	16	8	11	17			6					
SOUTH CAROLINA																				
Blackville	38	764	2.37	2.80	4.44	6.02	6.53	7.00	7.09	6.18	4.74	4.03	2.75	2.25	35.57	20.63	-	56.20	10/63	12/79
33° 22', 81° 19'			12	13	16	16	16	16	15	15	16	17	17	15						
			****	****	****	****	****	****	****	****	****	****	****	****	****	****		****		
Charleston City	38	1544	2.58	3.22	5.27	6.54	7.20	7.24	7.54	6.59	5.38	4.58	3.22	2.45	38.53	23.28	-	61.81	2/59	12/79
32° 54', 80° 02'			17	19	21	21	21	21	21	19	20	21	21	17						
			30	12	18	7	11	9	10	6	9	12	12	21	4	8		5		
Clark Hill Dam	38	1726	1.90	2.37	3.79	5.36	6.30	7.08	6.97	6.53	5.04	3.83	2.48	1.87	35.75	17.77	-	53.52	8/52	11/79
33° 40', 82° 11'			22	24	27	27	26	27	27	26	26	26	26	21						
			20	13	14	12	11	9	7	15	9	10	15	16	5	8		5		
Clemson University	38	1770	1.92	2.51	4.07	5.54	6.24	6.69	6.86	6.31	4.77	3.66	2.54	1.78	34.53	18.36	-	52.89	1/49	11/79
34° 41', 82° 49'			25	25	30	31	31	31	31	30	29	30	29	24						
			17	13	13	9	12	8	8	9	6	12	14	13	4	5		3		
Rainbow Lake	38	7113				5.22	5.83	6.48	6.67	6.13	4.59	3.39			38.31		-	-	5/65	10/77
35° 07', 81° 58'						12	13	13	13	13	13	13								
						****	****	****	****	****	****	****			****					
Union 7 SW	38	8786	1.68	2.17	3.58	5.25	6.28	6.62	6.94	6.40	4.71	3.42	2.07	1.50	34.37	16.25	-	50.62	7/49	12/55
34° 39', 81° 45'			13	15	15	15	14	14	15	15	15	15	15	13						
			****	****	****	****	****	****	****	****	****	****	****	****	****	****		****		
SOUTH DAKOTA																				
Angostura Dam	39	217					7.38	8.52	10.35	9.80	6.94	4.59			47.58	-	-	-	4/49	9/70
43° 21', 103° 26'							21	22	21	22	22	19								
							10	17	13	10	13	21			7					
Brookings	39	1076					7.86	8.56	9.34	8.73	6.15				-	-	40.64	-	4/53	9/79
44° 19', 96° 46'							25	26	26	25	26									
							9	11	11	8	15									
Cottonwood	39	1972				6.25	7.55	8.84	10.73	10.37	8.06	5.34			57.14	-	-	-	5/53	10/79
43° 58', 101° 52'						15	23	25	24	25	23	15								
						16	13	22	12	18	32	****			****					

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SOUTH DAKOTA (continued)																				
Madison Research Sta	39	5090				5.17	7.86	9.14	9.52	8.23	5.55	3.96			44.26	-	-	-	6/62	10/79
44° 02', 97° 10'						14	18	16	17	18	18	16								
						****	****	****	****	****	****	****			****					
Newell 2 NW	39	6054				5.12	7.04	7.86	10.06	9.75	6.48	5.06			46.25	-	-	-	4/49	10/75
44° 43', 103° 25'						22	25	25	25	25	25	13								
						22	15	24	14	14	17	****			****					
Oahe Dam	39	6170				5.57	8.79	9.06	11.05	10.31	7.37	5.04			51.62	-	-	-	9/60	10/79
44° 27', 100° 25'						16	16	19	19	19	20	15								
						****	****	14	12	14	16	****			****					
Pactola Dam	39	6427					4.35	5.83	6.49	5.43	4.23	2.72			29.05	-	-	-	4/55	9/79
44° 04', 103° 29'							22	23	24	24	23	13								
							15	22	13	13	18	27			9					
Pickstown	39	6574				5.22	7.45	8.34	10.38	9.12	6.00	4.31			45.60	-	-	-	9/50	10/79
43° 04', 98° 32'						11	26	26	26	26	29	23								
						****	15	17	10	8	18	29			8					
Redfield 6 E	39	7052					7.35	7.56	9.28	8.19	5.96	3.69			42.03	-	-	-	6/49	4/78
44° 53', 98° 23'							25	28	29	29	28	10								
							16	17	15	10	17	****			****					
Shadehill Dam	39	7567				5.19	7.48	8.20	9.96	9.42	6.51	4.30			45.87	-	-	-	8/50	10/76
45° 46', 102° 12'						16	22	23	25	24	26	25								
						18	16	15	15	13	18	26			9					
Sioux Falls WSO	39	7667					8.01	9.10	11.61	8.74	5.96				-	-	43.42	-	5/65	9/79
43° 34', 96° 44'							15	15	15	15	14									
							****	****	****	****	****									
TENNESSEE																				
Center Hill Dam	40	1569	2.00	2.39	3.80	5.13	6.27	7.07	7.26	6.73	5.57	3.69	2.27		36.59	-	-	-	1/49	11/62
36° 06', 85° 49'			10	11	13	21	22	22	22	22	22	22	22							
			****	****	****	12	10	9	9	12	15	15	11		7					
Jackson Exp	40	4561				5.94	7.16	7.83	7.84	6.96	5.30	4.33			39.42	-	-	-	5/61	10/79
35° 27', 88° 55'						19	19	18	18	18	18	14								
						****	10	****	****	****	****	****			****					
Jefferson City	40	4609	1.07	1.49	3.00	4.34	5.22	5.82	6.02	5.32	4.11	2.74	1.53	1.04	29.23	12.47	-	41.70	12/41	12/79
36° 07', 83° 27'			27	28	37	38	38	38	38	38	38	38	36	29						
			20	32	21	10	13	9	12	9	12	21	13	61	5	12		5		

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TENNESSEE (continued)																				
Knoxville	40	4946				5.38	5.93	6.60	6.82	6.31	4.36				-	-	35.40	-	5/66	10/79
35° 53', 83° 57'						12	13	12	13	13	14									
						****	****	****	****	****	****									
Neptune 3 S	40	6454		2.11	3.26	4.69	5.57	6.36	6.66	5.92	3.41	3.27	2.04	1.42	31.19	-	-	-	10/36	11/48
36° 19', 87° 11'				21	29	32	34	34	34	34	34	34	30	22						
				****	36	13	17	9	7	8	16	11	19	****	5					
Paris 5 E	40	6977	1.36	1.82	3.13	4.59	5.33	6.14	6.55	6.19	5.00	3.33	2.08	1.26	32.74	14.24	-	46.98	1/49	11/65
36° 19', 88° 41'			15	16	17	17	17	17	17	17	17	17	17	16						
			35	25	39	7	8	12	15	14	28	14	14	18	10	11		9		
Selmer	40	8160				4.92	5.44	5.99	5.98	4	3.97				31	-	-	-	9/62	7/72
35° 10', 88° 37'						10	10	10	10	9	10									
						****	****	****	****	****	****				****					
TEXAS																				
Austin	41	428	2.90	3.62	5.43	6.30	7.29	8.79	9.84	9.76	7.11	5.69	3.67	2.81	49.09	24.73	-	73.82	4/16	12/79
30° 18', 97° 42'			58	62	63	63	63	64	63	62	63	64	62	62						
			22	15	19	13	17	14	11	14	18	15	23	16	12	10		11		
Balmorhea	41	498	2.86	3.81	6.55	8.26	9.04	10.16	9.77	9.03	6.93	5.23	3.73	2.87	50.16	28.08	-	78.24	2/40	12/55
30° 59', 103° 45'			16	16	16	16	16	16	16	16	16	16	15	15						
			****	****	****	****	****	****	****	****	****	****	****	****	****	****		****		
Beeville	41	639	3.36	3.66	5.13	5.93	6.84	7.75	8.47	8.18	6.30	5.43	4.17	3.57	42.97	25.82	-	68.79	1/49	12/79
28° 27', 97° 42'			29	30	30	31	31	31	30	31	31	31	31	31						
			21	19	23	16	19	14	18	15	12	13	17	12	9	12		10		
Belton Dam	41	665	2.86	3.68	5.70	6.40	7.46	9.35	10.84	10.25	7.61	5.60	3.52	2.84	51.11	25.00	-	76.11	7/53	12/79
31° 06', 97° 29'			21	24	26	26	26	26	27	26	27	27	27	24						
			24	17	21	18	21	16	14	15	18	19	19	20	12	12		12		
Benbrook Dam	41	691	2.82	4.03	6.56	7.50	8.63	10.73	12.56	11.53	8.56	6.55	4.09	3.17	58.56	28.17	-	86.73	7/53	11/79
32° 39', 97° 27'			20	24	26	26	26	26	27	27	27	27	27	23						
			24	19	25	16	21	14	16	16	22	18	17	21	13	10		6		
Daingerfield 9 S	41	2225	2.61	3.35	5.60	6.99	8.38	9.33	10.14	9.74	7.07	5.58	3.56	2.82	50.24	24.93	-	75.17	7/59	12/79
32° 55', 94° 43'			17	19	20	20	20	20	21	20	20	21	21	21						
			17	11	17	11	11	13	13	13	10	12	15	19	6	5		4		
Denison Dam	41	2394	2.71	3.53	5.86	7.15	7.88	9.90	10.88	10.26	7.22	5.63	3.92	2.61	51.77	25.78	-	77.55	10/40	12/79
33° 49', 96° 34'			29	36	38	39	39	39	39	39	39	39	36	33						
			32	21	27	19	14	15	18	19	25	19	19	21	14	****		****		

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TEXAS (continued)																				
Dilley	41	2458	2.93	3.74	6.26	7.64	8.73	10.09	10.81	10.19	7.42	5.54	3.65	2.72	52.78	26.94	-	79.72	6/28	12/79
28° 40', 99° 10'			49	51	51	51	51	51	51	51	50	50	50	49						
			21	23	19	17	19	15	11	11	18	22	24	23	10	14		11		
Fort Stockton 2 NE	41	3280	4.03	5.14	9.26	10.88	12.28	14.27	13.77	12.47	9.22	7.20	5.04	4.21	69.21	38.56	-	107.77	5/40	3/61
30° 52', 102° 54'			20	19	13	20	20	19	20	20	18	17	18	17						
			****	****	****	****	****	****	****	****	****	****	****	****	****	****		****		
Grand Falls	41	3680	3.39	5.02	9.19	11.41	13	14	14	13	9	7.13	4.73	3	37	70	-	107	2/40	7/54
31° 48', 102° 50'			10	11	11	11	9	9	9	8	9	10	10	9						
			****	****	****	****	****	****	****	****	****	****	****	****	****	****		****		
Grapevine Dam	41	3691	3.17	3.97	6.56	7.51	8.70	10.65	12.29	11.42	8.31	6.48	4.17	3.24	57.85	28.62	-	86.47	8/53	11/79
32° 58', 97° 03'			18	23	25	26	26	24	26	27	27	27	27	23						
			25	13	24	16	16	13	17	16	20	18	18	20	13	13		11		
Hords Creek Dam	41	4278	4.12	5.18	8.10	9.60	10.24	12.19	13.51	12.27	9.23	7.32	4.87	4.10	64.76	35.97	-	100.73	7/53	10/79
31° 51', 99° 34'			17	22	26	26	26	26	27	27	27	26	25	23						
			27	24	25	13	18	14	15	11	19	16	20	23	10	11		8		
Lavon	41	5094	2.83	4.03	6.25	7.35	7.23	10.28	11.54	10.58	8.05	6.33	4.13	3.05	54.01	27.64	-	81.65	7/53	10/79
33° 02', 96° 29'			18	23	25	26	26	26	27	27	27	27	25	20						
			28	16	25	15	14	9	16	15	18	14	19	21	11	12		11		
Mansfield Dam	41	5561	2.71	3.44	5.20	6.32	7.16	8.56	10.66	10.26	7.40	5.45	3.65	2.90	49.49	24.22	-	73.71	1/49	6/64
32° 34', 97° 09'			15	14	15	14	15	20	14	18	18	14	18	14						
			****	****	****	****	****	****	****	****	****	****	****	****	****	****		****		
McCook	41	5721	4.18	5.07	8.01	8.86	9.18	10.43	11.97	11.69	8.94	7.37	5.70	4.53	59.58	36.35	-	95.93	1/63	12/79
29° 30', 98° 23'			17	17	17	16	17	17	17	17	17	17	16	17						
			****	****	****	****	****	****	****	****	****	****	****	****	****	****		****		
Mount Locke	41	6104	3.96	4.43	6.89	8.15	8.60	8.74	6.98	6.61	5.80	5.33	3.96	4	42.06	31	-	73	8/68	12/79
30° 40', 104° 00'			11	10	10	11	11	11	10	11	11	12	10	7						
			****	****	****	****	****	****	****	****	****	****	****	****	****	****		****		
Navarro Mills Dam	41	6210	3	4.09	6.42	7.33	8.31	10.06	11.68	10.77	7.69	6.42	4.17	3.09	54.93	28	-	83	3/63	11/79
31° 57', 96° 42'			9	14	16	17	16	17	17	16	16	17	17	13						
			****	****	****	****	****	****	****	****	****	****	****	****	****	****		****		
Point Comfort	41	7140	3.08	3.85	5.53	6.51	8.53	9.92	10.76	9.88	7.46	6.46	4.37	3.40	53.01	26.74	-	79.75	11/57	12/79
28° 40', 96° 33'			18	21	22	22	22	22	22	22	22	22	22	23						
			17	11	10	12	11	10	10	15	10	10	12	13	6	5		5		

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TEXAS (continued)																				
Proctor Res	41	7300	3.87	6.00	7.47	8.66	9.18	11.37	12.90	11.26	7.82	6.49	4.42	3.67	59.02	34.09	-	93.11	6/63	10/79
31° 58', 98° 30'			12	10	15	16	16	17	17	17	17	17	14	13						
			****	****	****	****	****	****	****	****	****	****	****	****	****	****		****		
Red Bluff Dam	41	7481	3.80	5.17	8.63	11.47	13.63	14.58	14.01	12.54	9.50	6.59	4.49	3.62	70.85	37.18	-	108.03	11/39	10/79
31° 54', 100° 29'			32	36	37	35	34	34	34	35	33	35	35	32						
			29	15	19	10	11	9	12	13	12	15	20	23	7	10		7		
Rio Grande City 3 W	41	7622	3.22	4.34	6.58	8.14	8.56	10.08	11.31	11.11	7.76	6.07	4.03	3.09	53.22	29.40	-	82.62	7/62	12/79
26° 23', 98° 52'			17	17	17	16	17	16	18	17	17	17	18	17						
			****	****	****	****	****	****	****	****	****	****	****	****	****	****		****		
Sam Rayburn Dam	41	7936	3	4	5.21	6.27	7.31	8.09	8.32	7.78	6.06	5.35	3.92	3	42.91	25	-	68	1/68	11/79
31° 04', 94° 06'			8	9	12	12	12	12	12	12	12	12	12	9						
			****	****	****	****	****	****	****	****	****	****	****	****	****	****		****		
Sommerville Dam	41	8446	2.74	3.56	5.36	6.09	7.18	8.88	9.98	8.99	6.57	5.49	3.83	2.73	47.09	24.31	-	71.40	1/65	12/79
30° 20', 96° 32'			12	13	15	14	15	14	15	15	15	15	15	13						
			****	****	****	****	****	****	****	****	****	****	****	****	****	****		****		
Spur 1 WNW	41	8566	2.67	3.39	5.76	7.13	8.12	9.40	9.84	8.97	6.80	5.20	3.58	2.68	48.33	25.21	-	73.54	1/22	3/64
33° 29', 100° 53'			33	37	37	36	36	36	35	35	36	36	35	32						
			****	****	****	****	****	****	****	****	****	****	****	****	****	****		****		
Stillhouse Hollow Dam	41	8646	3.18	4.08	5.95	6.98	7.57	9.71	11.32	10.17	7.08	5.97	4.07	3.00	51.82	27.26	-	79.08	1/58	12/79
31° 02', 97° 32'			11	12	15	15	15	15	15	15	15	15	14	13						
			****	****	****	****	****	****	****	****	****	****	****	****	****	****		****		
Thompson's 3 WSW	41	9014	2.87	3.74	4.89	5.79	7.26	7.80	7.76	7.26	5.92	5.25	4.24	2.96	41.25	24.49	-	65.74	7/57	12/79
29° 29', 95° 38'			16	22	22	22	22	22	23	23	23	23	21	22						
			19	12	11	9	11	12	9	11	9	13	12	44	5	5		5		
Waco Dam	41	9417	3	4.28	6.43	7.30	8.02	10.40	12.09	11.08	8.03	6.52	4.46	3.35	56.14	29	-	85	3/65	11/79
31° 26', 97° 13'			7	12	13	15	15	15	15	15	15	15	14	11						
			****	****	****	****	****	****	****	****	****	****	****	****	****	****		****		
Weslaco 2 E	41	9588	3.41	3.99	6.06	7.51	8.42	9.18	10.35	9.54	7.55	6.00	4.34	3.33	51.04	28.64	-	79.68	1/49	12/79
26° 09', 97° 58'			30	30	30	29	30	30	30	30	29	29	27	28						
			19	18	17	14	10	7	10	12	14	18	16	20	8	10		8		
Whitney Dam	41	9715	2.95	3.88	6.05	7.20	8.46	10.65	12.39	11.38	8.33	6.24	4.02	3.12	57.45	27.22	-	84.67	7/53	12/75
31° 51', 97° 22'			21	24	26	26	26	26	27	27	27	27	27	25						
			30	20	25	15	20	13	15	12	17	16	16	21	10	13		10		

* First line of data in the table for each station is mean evaporation in inches; second line is the number of years of record per month; and third line is the coefficient of variation in percent (computed only where there are 10 years or more of record during 1956-1970).

** Climatological Data (NOAA-EDIS)

*** Sum of monthly means.

**** Insufficient data between 1956-70 to compute the coefficient of variation.

TABLE I -- MEAN MONTHLY, SEASONAL, AND ANNUAL CLASS A PAN EVAPORATION (INCHES) FOR STATIONS WITH 10 YEARS OR MORE OF RECORD FOR BEST MONTH*

	State No.	Station Index No.**	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	May-Oct ***	Nov-Apr ***	Other Season ***	Annual ***	Record Began Mo/Yr	Latest Data Mo/Yr
TEXAS (continued)																				
Winter Haven Exp Station	41	9842	2.81	3.68	5.67	7.30	10	12	12.67	12	8.22	5.92	3.79	2.83	61	26.08	-	87	3/49	3/64
28° 38', 99° 52'			11	12	12	10	9	9	10	9	10	11	10	9						
			****	****	****	****	****	****	****	****	****	****	****	****	****	****		****		
Ysletta	41	9996	3.57	5.04	8.43	11.40	13.49	14.79	13.04	11.13	9.09	6.68	4.36	3.32	68.22	36.12	-	104.34	2/39	12/79
31° 42', 106° 19'			40	41	41	41	41	41	41	41	41	41	39	40						
			17	9	16	5	6	5	9	27	9	12	14	12	6	6		4		
UTAH																				
Fish Springs Refuge	42	2852					11.48	13.34	16.00	13.75	10.10	6			71	-	-	-	1/62	9/79
39° 51', 113° 24'							10	13	13	12	13	6								
							****	****	****	****	****	****			****					
Flaming Gorge	42	2864						5.89	10.07	8.52	5.92				-	-	30.40	-	5/58	9/79
40° 56', 109° 25'								20	21	20	18									
								20	9	10	18									
Green River Aviation	42	3418				6.31	7.94	8.59	9.18	7.90	5.88	3.71			43.20	-	-		4/56	10/79
39° 00', 110° 10'						16	20	23	21	22	23	17								
						****	17	16	12	14	16	20			9					
Gunnison	42	3514					7.40	8.53	9.91	8.45	6.09	4			44	-	-	-	5/62	9/79
39° 09', 111° 49'							12	15	15	16	16	9								
							****	****	****	****	****	****			****					
Logan Utah State Exp Sta	42	5190				4.27	6.21	7.24	8.61	7.62	5.14	3.05			37.87	-	-	-	9/50	8/78
41° 46', 111° 49'						14	27	28	28	28	27	25								
						****	15	12	7	8	12	13			5					
Moab 4 NW	42	5733				7.64	10.46	12.06	12.91	10.90	7.69	20.00			74.02	-	-	-	3/58	10/79
38° 36', 109° 36'						19	22	20	21	22	22	20								
						13	9	14	12	10	11	20			8					
Mexican Hat	42	5582				8.80	12.02	14.35	14.65	12.04	9.10	5.71	2		67.87	-	-	-	11/57	10/79
37° 09', 109° 52'						19	20	19	19	20	20	17	5							
						12	11	15	14	34	34	13	****		17					
Moon Lake	42	5815						8.09	6.82	6					-	-	21	-	8/41	9/55
40° 34', 110° 30'								14	14	7										
								****	****	****										
Piute Dam	42	6897					8.97	10.84	10.59	9.11	7.41	4.91			51.83	-	-	-	5/18	10/70
38° 19', 112° 11'							52	51	51	51	51	43								
							12	11	10	17	14	16			6					

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** Climatological Data (NOAA-EDIS)

*** Sum of monthly means.

**** Insufficient data between 1956-70 to compute the coefficient of variation.

TABLE I -- MEAN MONTHLY, SEASONAL, AND ANNUAL CLASS A PAN EVAPORATION (INCHES)
FOR STATIONS WITH 10 YEARS OR MORE OF RECORD FOR BEST MONTH*

	State No.	Station Index No.**	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	May-Oct ***	Nov-Apr ***	Other Season ***	Annual ***	Record Began Mo/Yr	Latest Data Mo/Yr
UTAH (continued)																				
Provo Dam	42	7068				6.82	6.30	7.37	7.83	6.85	4.94	2.88			36.17	-	-	-	5/18	9/60
40° 13', 111° 18'						11	16	17	17	17	17	17								
						****	****	****	****	****	****	****			****					
Saltair Salt Plant	42	7578				6.70	9.50	12.26	14.71	12.87	8.86	12.37	2		70.57	-	-	-	3/56	10/79
40° 46', 112° 06'						22	24	24	24	24	24	21	6							
						17	14	19	8	7	9	21	****		7					
Strawberry Reservoir	42	8376					6	7.43	8.00	7.30	5.20	3.35			37	-	-	-	6/56	8/77
40° 10', 111° 11'							6	14	18	18	18	12								
							****	****	11	14	14	****			****					
Utah Lake, LEHI	42	8973			3.11	5.57	8.11	9.60	10.59	9.23	6.76	3.95	1.38		48.24	-	-	-	5/23	10/79
40° 22', 111° 54'					42	54	59	60	60	60	60	55	39							
					26	30	14	16	7	11	10	13	****		8					
Wanship Dam	42	9165					7	6.89	7.56	5.64	4.84	3			35	-	-	-	6/56	6/74
40° 47', 111° 24"							9	19	18	18	18	7								
							****	15	11	18	21	****			****					
VERMONT																				
Essex Junction	43	2843					4.92	5.67	6.46	5.00	3.43	2.29			27.77	-	-	-	6/63	9/79
44° 31', 73° 07'							16	17	16	17	17	12								
							****	****	****	****	****	****			****					
VIRGINIA																				
Charlottesville 1W	44	1598					6.13	6.86	6.97	5.84	4.53	3.38			33.71	-	-	-	8/51	8/66
38° 02', 78° 31'							12	14	14	15	15	13								
							11	11	13	11	13	17			8					
Holland 1E	44	4044				6.16	7.05	7.58	7.61	6.72	5.14	3.95			38.05	-	-	-	5/50	4/78
36° 41', 76° 47'						21	28	28	28	27	27	27								
						14	7	6	15	10	13	12			5					
John H. Kerr Dam	44	4414				5.27	6.22	6.81	7.20	6.12	4.87	3.37			34.59	-	-	-	10/53	9/79
36° 36', 78° 17'						19	23	25	24	22	24	13								
						15	9	13	12	11	11	19			****					
Marion Evap Station	44	5271				4.64	4.98	5.25	5.21	4.98	3.61	2.76			26.79	-	-	-	4/71	10/79
36° 49', 81° 31'						9	9	9	9	9	9	9								
						14	37	8	8	10	9	34			****					

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** Climatological Data (NOAA-EDIS)

*** Sum of monthly means.

**** Insufficient data between 1956-70 to compute the coefficient of variation.

TABLE I -- MEAN MONTHLY, SEASONAL, AND ANNUAL CLASS A PAN EVAPORATION (INCHES) FOR STATIONS WITH 10 YEARS OR MORE OF RECORD FOR BEST MONTH*

	State No.	Station Index No.**	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	May-Oct ***	Nov-Apr ***	Other Season ***	Annual ***	Record Began Mo/Yr	Latest Data Mo/Yr
VIRGINIA (continued)																				
Philpot Dam 2	44	6692				4.34	4.83	5.02	5.30	5.08	3.82	2.72			26.77	-	-	-	9/53	10/79
36° 47', 80° 02'						25	25	25	25	25	26	26								
						19	10	9	12	10	13	14			5					
Sterling Test Lab	44	8084				5.03	6.53	7.34	7.53	7.10	5.08				33.58	-	-	-	5/61	10/70
38° 59', 77° 29'						9	10	10	10	10	10									
						22	10	7	12	11	10				****					
WASHINGTON																				
Bumping Lake	45	969						4.42	5.92	5.17	3.31				-	-	18.82	-	6/49	9/66
46° 52', 121° 18'								16	18	18	14									
								12	11	28	****									
Eltopia	45	2540				5.43	6.61	7.74	9.03	7.41	4.00	2.41			38.10	-	-	-	7/54	10/79
46° 24', 119° 10'						19	24	23	23	26	25	21								
						15	12	10	12	17	23	26			12					
Lake Kachess	45	4406					4.00	4.85	6.45	5.18	2.99	1.35			24.82	-	-	-	9/17	9/68
47° 16', 121° 12'							43	52	52	52	51	33								
							22	13	16	18	18	****			****					
Lind 3 NE	45	4679				5.77	8.08	9.88	12.58	10.62	7.19				-	-	54.12	-	4/49	9/79
47° 00', 118° 35'						31	31	31	31	30	30									
						14	12	11	9	14	13									
Moses Lake 3 E	45	5613				5.88	7.77	8.91	10.32	8.28	5.57	3			44	-	-	-	4/49	8/66
47° 07', 119° 12'						17	16	18	18	18	16	9								
						19	****	16	17	18	21	****			****					
Othello 5 E	45	6215				5.60	7.73	9.29	11.30	9.51	6.45	3.25			47.53	-	-	-	4/41	7/78
46° 48', 119° 03'						36	37	38	37	37	37	28								
						17	12	8	9	11	10	15			5					
Puyallup 2 W Exp Sta	45	6803				2.45	3.91	4.69	5.66	4.63	2.73	1.24	0.60		22.86	-	-	-	3/61	11/79
47° 12', 122° 20'						18	18	19	19	19	19	18	14							
						14	13	15	12	18	17	9	****		10					
Quincy	45	6880				5.95	8.00	9.13	10.73	8.96	5.83	3.00			45.65	-	-	-	4/41	8/78
47° 13', 119° 51'						35	38	38	37	38	37	28								
						15	13	10	9	12	17	16			6					
Rimrock Teton Dam	45	7038					5.45	6.65	8.10	7.44	3.87	1.69			33.20	-	-	-	5/49	9/77
46° 39', 121° 08'							29	29	29	29	29	18								
							14	12	13	16	13	16			10					

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**** Insufficient data between 1956-70 to compute the coefficient of variation.

TABLE I -- MEAN MONTHLY, SEASONAL, AND ANNUAL CLASS A PAN EVAPORATION (INCHES) FOR STATIONS WITH 10 YEARS OR MORE OF RECORD FOR BEST MONTH*

	State No.	Station Index No.**	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	May-Oct ***	Nov-Apr ***	Other Season ***	Annual ***	Record Began Mo/Yr	Latest Data Mo/Yr
WASHINGTON (continued)																				
Seattle Maple Leaf	45	7463			1.88	3.26	4.61	5.10	6.76	5.25	3.51	1.70			26.93	-	-	-	5/41	10/70
47° 42', 122° 19'					13	17	17	17	17	18	18	16								
					****	****	****	****	****	****	****	****			****					
Spokane WBAP	45	7938				4.85	7.47	9.11	11.90	10.66	6.34				-	-	50.33	-	5/66	9/79
47° 38', 117° 32'						12	14	14	14	14	14									
						****	****	****	****	****	****									
Walla Walla 3 W	45	8931			2.57	4.42	6.23	7.67	10.41	8.92	5.19	2.54			40.96	-	-	-	6/16	9/62
46° 02', 118° 20'					23	42	45	45	46	45	46	45								
					****	****	****	****	****	****	****	****			****					
Whitman Mission	45	9200				4.82	6.95	8.86	10.88	9.39	5.82	2.96			44.86	-	-	-	4/63	10/75
46° 03', 118° 27'						16	17	17	17	16	17	14								
						****	****	****	****	****	****	****			****					
WEST VIRGINIA																				
Bluestone Dam	46	939				3.95	4.91	5.43	5.78	4.94	3.76	2.53	1.38		27.35	-	-	-	10/52	10/79
37° 39', 80° 53'						27	27	27	27	26	27	27	12							
						18	26	7	9	10	13	16	17		8					
Hogsett Gallipolis Dam	46	4200					5.72	6.22	6.47	5.74	4.54	3.24			31.93	-	-	-	6/49	9/72
38° 41', 82° 11'							10	20	21	22	23	21								
							****	8	11	8	17	20			****					
Kearneysville	46	4763				5	5.60	5.81	6.87	6.00	4.40	3.08			31.76	-	-	-	4/65	10/79
39° 23', 77° 53'						9	14	13	14	14	13	11								
						****	****	****	****	****	****	****			****					
Parsons	46	6867				4	5.03	5.48	5.60	4.94	3.72	2.59			27.36	-	-	-	5/65	9/79
39° 06', 79° 40'						7	14	14	13	13	13	12								
						****	****	****	****	****	****	****			****					
Sutton Reservoir	46	8662					5.07	5.57	5.75	5.23	3.96	3			26	-	-	-	8/61	9/78
38° 39', 80° 41'							12	17	16	17	16	7								
							****	****	****	10	9	****			****					
Wardensville	46	9281				4.74	5.24	5.94	6.47	7.21	4.42	3.15			32.43	-	-	-	8/39	9/79
39° 26', 78° 35'						26	38	39	39	40	40	36								
						16	11	6	10	9	13	12			6					

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TABLE I -- MEAN MONTHLY, SEASONAL, AND ANNUAL CLASS A PAN EVAPORATION (INCHES) FOR STATIONS WITH 10 YEARS OR MORE OF RECORD FOR BEST MONTH*

	State No.	Station Index No.**	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	May-Oct ***	Nov-Apr ***	Other Season ***	Annual ***	Record Began Mo/Yr	Latest Data Mo/Yr
WISCONSIN																				
Arlington University Farm	47	308					7	7.50	8.17	6.77	4.81	3.21			37.46	-	-	-	6/65	10/79
43° 18', 89° 21'							7	14	14	15	15	14								
							****	****	****	****	****	****			****					
Marshfield Exp Sta	47	5120					5.97	6.46	6.98	6.15	4.35	3.16			33.07	-	-	-	6/39	9/79
44° 39', 90° 08'							29	39	40	39	41	26								
							11	13	12	11	13	15			****					
Rainbow Reservoir	47	6939					4.76	5.19	5.49	4.54	2.92	2.12			25.02	-	-	-	5/49	9/79
45° 50', 89° 33'							20	28	30	30	29	11								
							****	34	10	7	9	****			****					
Trempealeau Dam 6#	47	8589					6.01	6.64	7.03	5.88	4.32	3.48			33.36	-	-	-	5/41	9/79
44° 00', 91° 26'							36	39	39	39	38	28								
							11	15	10	8	7	15			6					
WYOMING																				
Anchor Dam	48	228					7.10	8.53	9.67	8.46	6.07				-	-	39.83	-	4/61	9/79
43° 40', 108° 50'							14	17	17	18	15									
							****	****	11	13	****									
Archer	48	270				5	3.40	7.52	8.66	8.31	6.20	5			39	-	-	-	5/58	10/75
41° 09', 104° 39'						8	23	23	24	24	24	8								
						****	17	14	17	10	14	****			****					
Boysen Dam	48	1000					7.38	8.69	10.53	9.50	6.23	3.72			46.05	-	-	-	4/49	8/79
43° 25', 108° 11'							23	31	31	31	30	12								
							12	14	10	8	17	****			****					
Farson	48	3170					7.91	9.75	11.00	9.12	6.76				-	-	44.54	-	6/50	9/73
42° 07', 109° 27'							14	20	20	22	21									
							13	18	10	12	19						****			
Gillette	48	3855				4.61	6.78	7.72	9.75	9.69	6.35	2.16			42.45	-	-	-	6/58	10/79
44° 17', 105° 28'						10	17	17	17	17	17	15								
						****	****	****	****	****	****	****			****					
Green River	48	4065					9.14	10.22	12.22	10.53	7.36				-	-	49.47	-	6/58	9/79
41° 32', 109° 28'							13	15	17	15	15									
							15	14	5	32	15									
Heart Mountain	48	4411					6.55	7.18	8.43	7.45	5.10	3.79			38.50	-	-	-	6/50	9/79
44° 41', 108° 57'							25	29	28	30	28	20								
							14	25	14	15	21	21			15					

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*** Sum of monthly means.

**** Insufficient data between 1956-70 to compute the coefficient of variation.

TABLE I -- MEAN MONTHLY, SEASONAL, AND ANNUAL CLASS A PAN EVAPORATION (INCHES)
FOR STATIONS WITH 10 YEARS OR MORE OF RECORD FOR BEST MONTH*

	State No.	Station Index No.**	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	May-Oct ***	Nov-Apr ***	Other Season ***	Annual ***	Record Began Mo/Yr	Latest Data Mo/Yr
WYOMING (continued)																				
Laramie 2 NW	48	5435					8.96	10.23	11.02	9.73	7.65	5			53	-	-	-	5/66	9/79
41° 21', 105° 37'							9	12	13	13	12	5								
							****	****	****	****	****	****			****					
Morton 1 NW	48	6470					6.10	7.07	9.88	7.57	5.17				-	-	35.79	-	5/51	9/68
43° 13', 108° 48'							14	17	17	17	17									
							****	21	8	5	18									
Pathfinder Dam	48	7105				5.45	6.94	8.62	10.54	9.69	7.33	5.44			48.56	-	-	-	5/49	8/79
42° 28', 106° 51'						15	26	28	30	30	29	25								
						****	19	11	14	12	16	19			****					
Sheridan Field Station	48	8160					6.21	7.67	9.82	9.44	6.29				-	-	39.43	-	5/49	9/79
44° 50', 106° 50'							24	29	29	29	27									
							16	20	15	13	17									
Whalen Dam	48	9604				5.99	7.85	9.06	10.63	9.53	6.61	4.81			48.49	-	-	-	4/49	10/79
42° 15', 104° 38'						17	31	31	30	31	31	22								
						****	16	16	11	9	13	****			****					

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** Climatological Data (NOAA-EDIS)

*** Sum of monthly means.

**** Insufficient data between 1956-70 to compute the coefficient of variation.

TABLE II -- MONTHLY MEANS OF ESTIMATED "PAN EVAPORATION" COMPUTED FROM METEOROLOGICAL MEASUREMENTS USING A FORM OF THE PENMAN EQUATION*

	State No.	Station Index No.**	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	May-Oct***	Nov-Apr***	Annual***	Record Began Mo/Yr	Last Data Mo/Yr
ALABAMA																			
Birmingham WB Airport	1	831	1.79	2.40	4.06	5.86	7.23	7.14	7.13	6.68	5.45	3.93	2.60	1.90	37.57	18.60	56.18	1/56	12/70
33° 34', 86° 45'			15	15	15	15	15	15	15	15	15	15	15	15					
			18	14	17	7	14	11	18	14	13	17	7	12	8	5	6		
Mobile WB Airport	1	5478	2.70	3.28	4.86	5.84	7.19	7.16	6.50	6.29	5.66	5.20	3.61	2.87	38.05	23.19	60.91	1/56	12/70
30° 40', 88° 15'			14	15	15	15	15	15	15	15	15	14	15	15					
			16	11	7	7	12	13	12	11	12	13	8	11	6	5	5		
Montgomery WB Airport	1	5550	2.09	2.76	4.37	5.71	7.10	7.12	7.42	6.94	5.77	4.08	2.82	2.26	38.61	20.01	58.70	1/56	12/70
32° 18', 86° 23'			15	15	15	15	15	15	15	15	14	15	15	15					
			16	8	13	8	12	12	8	12	12	12	7	8	6	5	5		
ARIZONA																			
Flagstaff WB Airport	2	3010	2	2	3	5	7	9	8	6	5	4	2.51	1.66	39	15	54	11/61	12/70
35° 7', 111°, 40'			9	9	9	9	9	9	9	9	9	9	10	10					
			****	****	****	****	****	****	****	****	****	****	16	19	****	****	****		
Phoenix WB Airport	2	6481	3.60	4.36	7.00	9.98	13.31	14.83	14.55	12.66	10.53	7.77	4.79	3.51	73.66	33.24	106.90	1/56	12/70
33° 25', 112° 1'			15	15	15	15	15	15	15	15	15	15	15	15					
			16	18	14	11	11	5	5	7	7	11	12	14	5	8	5		
Tucson WB Airport	2	8820	4.64	5.15	7.72	10.85	13.77	15.21	13.08	11.52	10.74	8.69	5.70	4.38	72.94	38.44	111.45	1/56	12/70
32° 7', 110° 55'			15	15	15	15	15	15	15	15	14	15	15	15					
			12	12	17	10	8	5	6	11	10	11	11	16	3	5	3		
Winslow WB Airport	2	9439	1.99	3.07	5.50	8.08	10.93	13.05	11.86	10.14	8.71	6.08	3.36	1.92	60.77	23.92	84.68	1/56	12/70
35° 1', 110° 43'			15	15	15	15	15	15	15	15	15	15	15	15					
			37	18	13	8	8	5	10	10	11	11	12	31	5	6	5		
Yuma WB Airport	2	9660	5.24	5.73	8.49	11.36	14.27	15.55	15.85	14.33	11.86	8.87	5.89	4.82	80.73	41.64	122.45	1/56	12/70
32° 40', 114° 36'			15	15	15	15	15	15	15	15	15	15	14	15					
			12	12	10	8	3	5	5	5	10	5	12	17	3	6	5		
ARKANSAS																			
Ft Smith Water PL	3	2578	1.84	2.15	3.74	5.46	6.61	7.18	8.01	7.70	5.46	4.05	2.55	1.85	39.03	17.59	56.61	1/56	12/70
35° 38', 94° 8'			15	15	15	15	15	15	15	15	15	15	15	15					
			19	11	20	12	11	10	12	12	18	19	16	11	8	7	7		
Little Rock WB Airport	3	4248	1.92	2.40	4.18	5.51	6.94	7.97	8.03	7.20	5.52	4.15	2.63	1.97	39.81	18.61	58.42	1/56	12/70
34° 43', 92° 13'			15	15	15	15	15	15	15	15	15	15	15	15					
			17	12	25	18	11	7	8	13	18	13	12	12	3	7	3		

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** Climatological Data (NOAA-EDIS)

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TABLE II -- MONTHLY MEANS OF ESTIMATED "PAN EVAPORATION" COMPUTED FROM METEOROLOGICAL MEASUREMENTS USING A FORM OF THE PENMAN EQUATION*

	State No.	Station Index No.**	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	May-Oct***	Nov-Apr***	Annual***	Record Began Mo/Yr	Last Data Mo/Yr
CALIFORNIA																			
Bakersfield WB Airport	4	442	1.96	2.61	4.68	6.66	9.73	12.26	13.48	12.05	9.13	6.19	3.20	1.75	62.84	20.86	83.71	1/56	12/70
35° 25', 119° 3'			15	15	15	15	15	15	15	15	15	15	15	15					
			29	23	16	18	12	5	5	7	8	17	24	32	5	12	6		
Burbank Valley Pump	4	1194	3.52	3.57	4.81	5.67	6.25	7.30	9.16	8.32	7.12	5.41	4.04	3.63	43.56	25.25	68.81	1/56	12/65
34° 10', 118° 21'			10	10	10	10	10	10	10	10	10	10	10	10					
			24	30	16	16	13	12	8	6	12	19	13	17	5	8	5		
Fresno WB Airport	4	3257	1.30	2.06	4.22	6.28	9.33	11.41	12.39	10.74	7.85	5.04	2.34	1.21	56.74	17.51	74.14	1/56	12/70
36° 46', 119° 43'			15	15	15	15	15	15	15	15	15	15	15	14					
			22	19	12	17	10	6	7	6	6	11	25	37	5	8	5		
Long Beach WB Airport	4	5085	3.41	3.45	4.48	5.68	6.22	6.15	8.10	7.99	6.38	5.24	3.50	2.98	40.07	23.49	63.57	1/60	12/70
33° 49', 118° 8'			11	11	11	11	11	11	11	11	11	11	11	11					
			13	22	12	12	10	11	7	10	10	18	17	18	6	7	5		
Los Angeles WB Airport	4	5114	3.54	3.63	5.10	5.77	6.65	6.36	7.82	7.29	6.07	5.27	3.96	3.55	39.87	25.52	65.48	1/56	12/70
33° 55', 118° 22'			15	14	15	15	14	15	15	15	15	14	15	15					
			19	24	12	13	10	14	7	6	14	30	22	18	7	7	6		
Oakland WB Airport	4	6335	1.75	2.26	3.76	4.75	5.69	6.43	6.43	5.98	5.37	3.97	2.38	1.83	33.96	16.73	50.65	1/56	12/70
37° 43', 122° 11'			15	15	15	15	14	15	15	15	15	15	15	15					
			19	25	12	12	10	13	8	6	11	13	17	24	5	7	5		
Red Bluff WB Airport	4	7292	2.51	2.94	4.52	6.91	9.57	12.65	13.46	11.79	9.14	6.24	3.24	2.25	62.96	22.51	85.47	1/56	12/70
40° 8', 122° 15'			15	15	15	14	15	14	15	15	15	15	15	14					
			68	26	17	23	12	11	5	7	7	17	26	31	5	18	7		
Sacramento WB Airport	4	7630	1.26	2.15	3.73	5.85	8.31	10.73	11.31	10.10	7.68	5.02	2.32	1.22	53.19	16.54	69.86	1/56	12/70
38° 31', 121° 30			15	15	15	15	15	15	15	15	15	14	15	15					
			29	25	17	19	10	8	5	5	5	18	27	43	5	14	6		
San Diego WB Airport	4	7740	3.19	3.35	4.74	6.09	6.37	5.57	6.81	6.72	5.79	4.86	3.78	3.27	36.12	24.42	60.54	1/56	12/70
32° 43', 117° 10'			15	15	15	15	15	15	15	15	15	15	15	15					
			16	16	11	11	8	12	5	8	8	14	19	16	5	6	5		
San Francisco WB Airport	4	7769	1.65	2.40	3.81	5.30	6.40	7.08	6.70	6.64	5.94	4.40	2.43	1.70	37.16	17.29	54.45	1/56	12/70
37° 37', 122° 22'			15	15	15	15	15	15	15	15	15	15	15	15					
			19	24	17	12	16	11	11	12	16	17	17	25	7	10	8		
COLORADO																			
Colorado Springs WSO	5	1778	2.38	2.52	3.76	5.86	7.91	9.36	9.52	8.59	6.69	5.14	3.02	2.43	47.22	19.97	67.19	1/56	12/70
38° 49', 104° 43'			15	15	15	15	15	15	15	15	15	15	15	15					
			18	20	26	18	12	13	10	11	12	19	18	17	8	8	6		

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TABLE II -- MONTHLY MEANS OF ESTIMATED "PAN EVAPORATION" COMPUTED FROM METEOROLOGICAL MEASUREMENTS USING A FORM OF THE PENMAN EQUATION*

	State No.	Station Index No.**	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	May-Oct***	Nov-Apr***	Annual***	Record Began Mo/Yr	Last Data Mo/Yr
COLORADO (continued)																			
Denver WSFO	5	2220	2.20	2.33	3.83	5.70	7.43	8.96	9.80	9.11	6.59	4.78	2.69	2.24	46.68	18.99	65.68	1/56	12/70
39° 45', 104° 52'			15	15	15	15	15	15	15	15	15	15	15	15					
			19	25	24	16	16	18	8	11	14	25	16	26	11	6	8		
Grand Junction WS	5	3488	1.86	2.11	4.26	6.60	9.89	12.49	12.98	11.10	8.20	5.37	2.53	1.34	60.10	18.70	78.78	1/56	12/70
39° 7', 108° 31'			15	15	15	15	15	15	14	15	15	15	15	15					
			38	27	16	12	12	12	7	12	12	17	14	25	6	7	6		
Pueblo WSO	5	6740	2.00	2.44	4.17	7.04	9.11	10.82	11.09	9.72	7.35	5.28	2.96	2.27	53.37	20.88	74.19	1/56	12/70
38° 16, 104° 31'			14	15	15	15	15	15	15	15	15	15	15	15					
			31	26	25	18	12	14	8	8	12	18	18	29	8	12	8		
CONNECTICUT																			
Bridgeport WSO	6	806	1.49	1.60	2.53	3.67	4.81	5.50	5.82	5.36	4.29	3.44	2.13	1.49	29.21	12.83	42.16	3/60	12/70
41° 10', 73° 7'			10	10	11	10	11	11	11	11	11	11	11	11					
			25	19	11	18	18	11	17	11	6	8	7	17	5	****	****		
Hartford WSO	6	3456	1.10	1.33	2.46	4.28	5.68	6.07	6.43	5.83	3.83	2.74	1.70	1.07	30.59	11.94	42.53	1/56	12/70
41° 55', 72° 40'			15	15	15	15	15	15	15	15	15	15	15	15					
			29	20	16	18	17	12	18	11	16	18	17	20	10	12	10		
DELAWARE																			
Wilmington WSO	7	9595	1.49	1.74	3.01	4.34	5.54	6.40	6.40	5.92	4.64	3.37	2.20	1.52	32.29	14.27	46.51	1/56	12/70
39° 40', 75° 36'			15	14	15	15	15	15	15	15	15	15	15	15					
			23	20	17	12	13	7	17	13	12	10	7	17	7	8	6		
FLORIDA																			
Daytona Beach WB Airport	8	2158	3.32	3.88	5.19	6.86	7.53	7.04	7.11	6.71	5.89	5.30	4.04	3.20	39.58	26.49	66.07	1/56	12/70
29° 10', 81° 4'			15	15	15	15	15	15	15	15	15	15	15	15					
			11	7	13	8	11	8	5	6	10	11	6	10	5	5	3		
Jacksonville WB Airport	8	4358	2.76	3.45	5.50	7.54	8.52	7.73	7.92	7.28	5.94	4.64	3.50	2.89	42.03	25.63	67.65	1/56	12/70
30° 25', 81° 38'			15	15	15	15	15	15	15	15	15	15	15	15					
			12	10	11	6	12	12	7	6	11	16	10	13	5	5	5		
Key West WB Airport	8	4570	4.46	4.89	7.18	9.09	10.10	9	9.68	8.72	7.37	6.47	5.55	4.74	51	35.90	87	7/60	12/70
24° 33', 81° 45'			10	10	10	10	10	9	10	10	11	11	11	11					
			13	5	7	5	11	****	6	3	5	6	7	10	****	3	****		

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FLORIDA (continued)																			
Miami WSO	8	5663	4.28	4.84	6.59	7.84	7.85	6.96	8.03	7.68	6.00	5.78	4.83	4.27	42.30	32.67	74.97	1/56	12/70
25° 48', 80° 16'			15	15	15	15	15	15	15	15	15	15	15	15					
			14	11	12	11	12	11	11	11	11	8	10	13	6	5	5		
Orlando WB Airport	8	6638	3.66	4.39	6.00	7.66	8.53	7.75	7.74	7.10	6.23	5.78	4.51	3.80	43.17	29.72	72.39	1/56	12/70
28° 33', 81° 19'			14	15	14	15	15	14	13	14	14	14	14	13					
			16	7	11	10	11	6	3	5	7	13	8	11	5	6	5		
Tallahassee WB Airport	8	8758	2.50	2.88	4.63	5.94	7.01	6.96	6.36	6.20	5.47	4.87	3.24	2.57	36.87	21.75	58.57	2/56	12/70
30° 22', 84° 22'			14	15	15	15	15	15	15	15	15	15	15	15					
			12	13	11	7	12	10	7	12	7	13	14	5	6	5	5		
Tampa WSO	8	8788	3.40	3.98	5.73	7.57	8.84	8.15	7.74	7.17	6.40	5.74	4.28	3.59	44.03	28.56	72.60	1/56	12/70
27° 58', 82° 31'			15	15	15	15	15	15	15	15	15	15	15	15					
			10	11	14	8	5	8	7	10	8	13	10	12	5	6	5		
West Palm Beach WB Airport	8	9525	4.33	4.79	6.52	7.74	7.94	7.10	7.71	7.29	6.03	6.12	5.12	4.41	42.40	32.92	75.29	1/56	12/70
26° 40', 80° 6'			15	15	15	15	15	14	15	14	15	15	15	15					
			11	6	10	6	10	7	11	5	8	6	7	7	3	5	3		
GEORGIA																			
Athens WB Airport	9	435	2.20	2.66	4.16	5.51	6.43	6.64	6.54	6.36	5.06	4.20	2.99	2.27	35.22	19.79	55.01	1/56	12/70
33° 56', 83° 19'			15	15	15	15	15	15	15	15	15	15	15	15					
			16	10	18	7	13	12	12	13	11	16	8	8	5	5	5		
Atlanta WB Airport	9	451	2.12	2.73	4.28	5.78	7.03	7.10	7.07	6.70	5.22	4.14	2.89	2.26	37.25	20.15	57.13	1/56	12/70
33° 38', 84° 25'			14	15	15	15	15	15	15	15	15	15	15	15					
			12	12	17	11	12	12	8	12	11	16	8	13	5	6	5		
Augusta WB Airport	9	495	2.18	2.75	4.25	5.66	6.27	6.62	6.49	6.31	5.07	4.19	3.00	2.29	34.96	20.13	55.09	1/56	12/70
33° 22', 81° 58'			15	15	15	15	15	15	15	15	15	15	15	15					
			13	10	16	7	16	8	10	12	10	14	11	8	5	6	5		
Columbus WB Airport	9	2166	2.05	2.66	4.16	5.51	6.76	6.76	6.10	6.16	5.32	4.35	2.77	2.10	35.48	19.29	54.91	6/58	12/70
32° 31, 84° 55'			12	12	12	12	12	13	13	13	13	13	12	13					
			10	12	11	10	13	10	13	8	8	11	6	12	5	5	5		
Macon WB Airport	9	5443	2.25	2.92	4.64	6.47	7.85	7.67	7.55	7.14	5.83	4.36	3.03	2.45	40.40	21.76	62.16	1/56	12/70
32° 41', 83° 38'			15	15	15	15	15	15	15	15	15	15	15	15					
			16	12	13	7	14	11	11	13	11	13	10	10	5	5	5		
Savannah WB Airport	9	7847	2.30	2.87	4.76	6.70	7.62	7.51	7.79	6.83	5.67	4.45	3.06	2.60	39.87	22.22	61.82	1/56	12/70
32° 7, 81° 11'			15	15	14	15	15	15	15	15	15	15	15	15					
			14	8	14	5	16	12	7	8	8	14	11	12	5	6	5		

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IDAHO																			
Boise WB Airport	10	1022	1.58	1.63	3.59	5.06	7.39	9.23	12.09	10.01	6.64	3.90	1.76	1.09	49.25	14.72	63.97	1/56	12/70
43° 34', 116° 13'			15	15	15	15	15	15	15	15	15	15	15	15					
			122	26	25	14	12	14	5	12	11	14	18	36	5	18	6		
Pocatello WB Airport	10	7211	0.97	1.38	3.52	4.92	7.36	8.87	11.69	9.20	6.43	4.01	1.78	1.01	47.56	13.58	61.14	1/56	12/70
42° 55', 112° 36'			15	15	15	15	15	15	15	15	15	15	15	15					
			38	37	60	18	17	19	7	22	12	14	25	31	8	20	8		
ILLINOIS																			
Chicago WB Airport	11	1577	1.09	1.37	2.68	4.56	6.90	8.21	8.16	6.95	5.11	3.83	1.97	1.19	39.16	12.86	52.02	1/56	12/70
41° 46, 87° 45'			15	15	15	15	15	15	15	15	15	15	15	15					
			26	23	25	18	13	12	11	8	8	17	13	20	6	12	5		
Moline WSO	11	5751	0.88	1.17	2.46	4.38	6.34	7.20	7.45	6.19	4.35	3.36	1.72	1.07	34.90	11.67	46.58	1/56	12/70
41° 26', 90° 31'			15	15	15	15	15	15	15	15	15	15	15	15					
			25	23	30	18	12	14	12	6	10	19	18	32	6	11	6		
Peoria WSO	11	6711	0.91	1.26	2.49	4.52	6.40	7.48	7.49	6.43	4.77	3.54	1.80	0.97	36.11	11.95	48.06	1/56	12/70
40° 40', 89° 40'			15	15	15	15	15	15	15	15	15	15	15	15					
			29	17	27	16	16	12	12	7	12	23	13	22	7	10	6		
Rockford WSO	11	7382	0.79	1.08	2.33	4.12	5.93	7.07	7.13	6.23	4.40	3.30	1.61	0.83	34.05	10.78	44.88	1/59	12/70
42° 11', 89° 6'			12	12	12	12	12	12	11	12	12	12	12	12					
			29	25	23	12	8	8	7	7	8	18	14	17	3	6	3		
Springfield WSO	11	8179	1.09	1.38	2.72	4.88	7.40	7.99	8.05	6.62	5.39	3.88	2.12	1.18	39.34	13.36	52.70	1/56	12/70
39° 49', 89° 40'			15	15	15	15	15	15	15	15	15	15	15	15					
			24	14	26	18	23	12	12	10	11	23	16	20	7	8	7		
INDIANA																			
Evansville WSO	12	2738	1.29	1.68	3.02	5.09	6.73	7.56	7.72	6.88	5.11	3.72	2.05	1.32	37.78	14.45	52.29	1/56	12/70
38° 3', 87° 31'			15	15	15	15	14	15	15	15	15	15	15	15					
			18	25	19	13	12	11	6	6	12	14	12	22	5	6	3		
Fort Wayne WSO	12	3037	0.86	1.17	2.23	4.03	6.27	7.45	7.51	6.50	4.64	3.25	1.60	0.90	35.61	10.78	46.39	1/56	12/70
41° 0', 85° 11'			15	15	15	15	15	15	15	15	15	15	15	15					
			25	18	22	17	13	12	10	11	11	18	16	18	5	6	5		
Indianapolis WSFO	12	4259	1.06	1.35	2.49	4.32	6.06	7.13	6.99	6.28	4.71	3.39	1.73	1.09	34.57	12.04	46.61	1/56	12/70
39° 43', 86° 16'			15	15	15	15	15	15	15	15	15	15	15	15					
			26	17	20	12	17	12	13	11	13	18	18	25	10	10	8		

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TABLE II -- MONTHLY MEANS OF ESTIMATED "PAN EVAPORATION" COMPUTED FROM METEOROLOGICAL MEASUREMENTS USING A FORM OF THE PENMAN EQUATION*

	State No.	Station Index No.**	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	May-Oct***	Nov-Apr***	Annual***	Record Began Mo/Yr	Last Data Mo/Yr
INDIANA (continued)																			
South Bend WB Airport	12	8187	0.83	1.00	2.08	3.80	5.63	6.73	6.64	5.93	4.26	3.17	1.61	0.88	32.35	10.20	42.56	1/56	12/70
41° 41', 86° 19'			15	15	15	15	15	15	15	15	15	15	15	15					
			36	24	23	16	17	12	11	8	12	24	19	24	6	10	6		
IOWA																			
Burlington FAA Airport	13	1063	1.00	1.35	2.66	4.63	6.27	6.43	6.59	5.72	4.44	3.67	1.93	1.05	33.18	12.84	46.25	1/56	12/70
40° 46', 91° 7'			15	15	15	15	14	15	15	15	15	15	15	14					
			30	19	26	14	7	7	12	11	7	14	18	30	5	8	5		
Des Moines WSO	13	2203	0.82	1.11	2.47	4.56	6.61	7.74	8.14	6.77	4.55	3.77	1.81	1.04	37.57	11.81	49.38	1/56	12/70
41° 31', 93° 38'			15	15	15	15	15	15	15	15	15	15	15	15					
			31	36	33	16	13	16	13	7	17	18	24	29	7	12	7		
Sioux City WSO	13	7708	0.78	1.00	2.28	4.63	6.35	7.24	7.35	6.04	4.14	3.51	1.67	0.93	34.63	11.24	46.03	1/56	12/70
42° 23', 96° 22'			14	15	15	15	15	15	15	15	15	15	15	15					
			31	35	45	8	12	18	12	12	20	25	23	38	10	12	10		
Waterloo WSO	13	8706	0.68	0.89	1.89	4.10	5.94	6.80	6.97	5.95	4.07	3.19	1.55	0.71	32.92	9.86	42.85	3/60	12/70
42° 33', 92° 23'			10	10	11	11	11	11	11	11	11	11	11	11					
			31	35	42	19	10	12	12	6	17	18	16	33	6	16	7		
KANSAS																			
Concordia WSO	14	1767	1.24	1.64	3.37	5.29	6.65	8.29	9.39	8.45	5.49	4.26	2.20	1.52	42.56	15.27	57.90	1/56	12/70
39° 33', 97° 38'			15	15	15	15	14	15	15	15	15	15	15	15					
			37	35	37	16	18	14	14	11	19	26	19	20	11	17	12		
Dodge City WSO	14	2164	2.11	2.45	4.45	6.91	8.78	10.41	11.18	10.37	7.32	5.63	3.09	2.23	53.69	21.24	74.93	1/56	12/70
37° 46', 99° 58'			15	15	15	15	15	15	15	15	15	15	15	15					
			30	30	37	18	16	13	13	12	23	24	20	25	10	14	10		
Goodland WSO	14	3153	1.96	2.15	3.57	5.95	7.81	9.74	10.57	9.63	6.81	5.16	2.79	2.03	49.71	18.47	68.17	1/56	12/70
39° 22', 101° 41'			15	15	15	15	15	15	15	15	15	15	15	15					
			30	31	33	18	18	18	12	8	18	18	16	22	10	13	8		
Topeka WSO	14	8167	1.32	1.73	3.36	5.01	6.64	6.94	7.89	7.32	4.92	3.81	2.14	1.41	37.52	14.97	52.50	1/56	12/70
39° 4', 95° 37'			15	15	15	15	15	15	15	15	15	15	15	15					
			29	24	31	14	18	14	16	11	22	25	17	23	11	12	10		
Wichita WSO	14	8830	1.66	2.10	4.14	5.88	7.50	8.75	9.66	9.17	6.00	4.69	2.63	1.98	45.77	18.40	64.16	1/56	12/70
37° 38', 97° 25'			15	15	15	15	15	15	15	15	15	15	15	15					
			27	22	30	16	19	12	14	14	24	20	22	41	11	13	10		

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TABLE II -- MONTHLY MEANS OF ESTIMATED "PAN EVAPORATION" COMPUTED FROM METEOROLOGICAL MEASUREMENTS USING A FORM OF THE PENMAN EQUATION*

	State No.	Station Index No.**	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	May-Oct***	Nov-Apr***	Annual***	Record Began Mo/Yr	Last Data Mo/Yr
KENTUCKY																			
Lexington WB Airport	15	4746	1.31	1.51	2.97	4.64	5.90	6.58	6.67	6.46	5.16	3.84	2.15	1.39	34.61	13.96	48.57	1/56	12/70
38° 1', 84° 36'			15	15	15	15	15	15	15	15	15	15	15	15					
			31	24	23	13	11	8	10	12	18	17	12	18	6	12	6		
Louisville WSO	15	4954	1.34	1.51	3.14	5.11	6.57	7.05	7.30	6.84	4.96	3.54	2.14	1.62	36.26	14.87	51.13	1/56	12/70
38° 10', 85° 43'			15	15	15	15	15	15	15	15	15	15	15	15					
			30	30	20	17	12	12	12	7	12	13	11	33	7	12	7		
LOUISIANA																			
Alexandria WB Airport	16	104	1.84	2.41	3.76	4.83	6.14	6.57	6.54	6.16	5.25	4.23	2.75	1.82	34.88	17.44	52.00	2/60	12/70
31° 23', 92° 18'			10	11	11	10	10	10	10	10	10	10	10	11					
			14	11	14	10	11	12	14	13	8	12	16	10	6	****	****		
Baton Rouge WB Airport	16	549	2.60	3.08	4.70	5.51	6.83	7.13	6.73	6.29	5.66	4.93	3.30	2.57	37.58	21.76	59.34	1/56	12/70
30° 31', 91° 8'			15	15	15	15	15	15	15	15	15	15	15	15					
			13	14	11	8	11	13	13	12	12	13	11	18	6	5	5		
Lake Charles WB Airport	16	5078	2.29	2.71	4.33	5.58	7.30	7.63	7.43	6.73	5.77	4.77	3.25	2.33	39.64	20.49	60.13	1/56	12/70
30° 7', 93° 13'			15	15	15	15	15	15	15	15	15	15	15	15					
			19	12	13	10	7	12	11	12	12	12	12	18	5	6	5		
New Orleans WB Moisant	16	6660	2.47	2.97	4.42	5.42	6.86	6.92	6.56	6.14	5.56	4.91	3.22	2.52	36.94	21.02	57.96	1/56	12/70
29° 58', 90° 15'			15	15	15	15	15	15	15	15	15	15	15	15					
			18	14	11	11	8	14	11	11	12	6	11	12	3	6	5		
Shreveport WB Airport	16	8440	2.46	2.86	4.59	5.71	7.48	8.07	8.83	8.21	6.15	4.87	3.04	2.28	43.61	20.94	64.55	1/56	12/70
32° 28', 93° 49'			15	15	15	15	15	15	15	15	15	15	15	15					
			29	8	22	14	11	12	11	11	16	13	18	16	7	8	6		
MAINE																			
Portland WSMO	17	6905	0.91	1.03	1.99	3.10	4.76	5.35	5.70	4.98	3.31	2.29	1.19	0.89	26.39	9.12	35.53	1/56	12/70
43° 38', 70° 19'			15	15	15	15	15	15	15	15	14	14	15	15					
			29	23	12	12	12	18	14	12	8	12	24	16	6	10	6		
MARYLAND																			
Baltimore WSO	18	465	1.63	1.94	3.30	4.88	6.27	7.21	7.57	6.70	4.92	3.56	2.41	1.68	36.24	15.82	52.07	1/56	12/70
39° 10', 76° 40'			15	15	15	15	15	15	15	15	15	15	15	15					
			24	25	17	17	11	8	13	10	16	13	12	17	7	10	6		

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TABLE II -- MONTHLY MEANS OF ESTIMATED "PAN EVAPORATION" COMPUTED FROM METEOROLOGICAL MEASUREMENTS USING A FORM OF THE PENMAN EQUATION*

	State No.	Station Index No.**	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	May-Oct***	Nov-Apr***	Annual***	Record Began Mo/Yr	Last Data Mo/Yr
MASSACHUSETTS																			
Boston WSFO	19	770	1.77	1.89	2.98	4.43	6.32	6.80	7.26	6.44	4.56	3.61	2.33	1.84	34.89	15.24	50.09	1/56	12/70
42° 22', 71° 1'			15	15	15	15	15	15	15	14	15	15	15	15					
			19	17	12	16	13	18	18	10	12	18	16	18	8	8	8		
Nantucket FAA Airport	19	5159	1.49	1.73	2.35	3.33	4.56	5.03	5.06	4.31	3.25	2.65	1.88	1.56	24.92	12.29	37.21	1/56	7/69
41° 15', 70° 4'			14	14	14	14	14	14	14	13	13	13	13	13					
			17	31	13	12	16	16	18	16	10	8	11	13	10	8	7		
Worcester WSO	19	9923	1.25	1.40	2.40	4.01	5.40	5.62	5.91	5.28	3.89	3.03	1.80	1.26	29.12	12.10	40.96	1/57	12/70
42° 16', 71° 52'			14	13	14	14	14	14	14	14	14	14	14	14					
			22	17	11	14	13	12	16	12	11	22	16	30	7	6	6		
MICHIGAN																			
Alpena WSO	20	164	0.59	0.76	1.55	2.91	4.65	5.63	6.31	4.88	2.94	1.85	1.05	0.61	26.27	7.37	33.66	5/56	12/70
45° 4', 83° 34'			13	12	13	13	14	13	13	14	13	13	13	14					
			22	22	18	18	18	14	12	8	12	22	13	20	8	12	8		
Detroit City WB Airport	20	2102	1.02	1.12	2.07	3.72	5.51	6.92	7.18	6.01	4.26	3.15	1.80	1.03	33.03	10.77	43.80	1/56	12/65
42° 25', 83° 1'			10	10	10	10	10	10	10	10	10	10	10	10					
			19	18	18	18	25	10	7	7	6	20	17	18	6	7	5		
Detroit WSFO MET	20	2103	0.87	1.21	2.16	3.69	5.43	6.54	6.85	5.90	4.17	3.07	1.62	1.00	31.96	10.55	42.50	1/60	12/70
42° 13', 83° 19'			11	11	11	11	11	11	11	11	11	11	11	11					
			38	22	18	18	11	10	7	12	6	12	12	18	3	10	3		
Detroit WB Willow Run Airport	20	2104	0.89	1.09	2.16	3.66	5.70	6.66	7.11	5.91	4.42	3.19	1.77	0.95	33.00	10.5	43.52	1/56	12/65
42° 13', 83° 31'			10	10	10	10	10	10	10	10	10	10	10	10					
			18	18	16	20	12	6	12	6	10	20	13	20	3	7	1		
Flint WSO	20	2846	0.76	0.96	1.94	3.58	5.00	5.92	6.26	5.41	3.65	2.75	1.46	0.87	29.00	9.57	38.57	1/56	12/70
42° 58', 83° 43'			15	15	15	15	15	15	15	15	15	15	15	15					
			41	30	25	18	12	11	11	10	8	19	17	24	5	13	6		
Grand Rapids WB Airport	20	3333	0.66	0.89	1.92	3.72	5.88	7.08	7.23	6.13	4.03	2.66	1.36	0.74	33.00	9.29	42.29	1/56	12/70
42° 52', 85° 31'			15	15	15	15	15	15	15	15	15	15	15	15					
			25	18	22	18	16	12	8	11	12	22	17	20	5	8	5		
Lansing WSO	20	4641	0.71	0.98	2.02	3.75	5.75	6.68	6.96	5.81	3.81	2.61	1.38	0.72	31.63	9.56	41.19	1/60	12/70
42° 46', 84° 36'			11	11	11	11	11	11	11	11	11	11	11	11					
			27	24	25	20	13	13	8	12	13	19	18	33	5	13	5		
Muskegon WSO	20	5712	0.80	0.93	2.01	3.81	5.73	6.74	7.11	6.06	4.00	2.94	1.66	0.94	32.59	10.21	42.80	4/59	12/70
43° 10', 86° 13'			11	11	11	12	11	11	11	11	11	11	11	11					
			25	17	25	14	8	10	6	11	7	16	12	20	3	10	3		

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	State No.	Station Index No.**	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	May-Oct***	Nov-Apr***	Annual***	Record Began Mo/Yr	Last Data Mo/Yr
MICHIGAN (continued)																			
Sault Sainte Marie WB Airport	20	7366	0.41	0.57	1.36	2.74	4.65	5.43	5.85	4.74	2.62	1.74	0.83	0.47	25.03	6.34	31.21	1/56	12/70
46° 28', 84° 22'			14	14	15	15	15	15	15	15	15	15	15	15					
			25	24	10	17	13	16	12	12	14	22	22	33	5	8	5		
MINNESOTA																			
Duluth WSO	21	2248	0.52	0.69	1.59	3.16	5.05	5.59	6.47	5.25	3.08	2.31	1.01	0.51	27.74	7.48	35.22	1/56	12/70
46° 49', 92° 10'			15	15	15	15	15	15	15	15	15	15	15	15					
			18	18	19	13	17	12	12	18	13	24	20	25	6	8	5		
International Falls WSO	21	4026	0.36	0.57	1.39	3.14	5.12	5.82	6.20	4.96	2.92	2.17	0.75	0.34	27.18	6.63	33.61	1/56	11/70
48° 34', 93° 22'			15	15	15	15	15	15	15	15	15	15	15	14					
			37	18	19	12	12	13	11	12	14	25	26	43	5	10	3		
Minneapolis WSO	21	5435	0.67	0.90	2.03	4.11	6.10	7.25	7.88	6.52	4.01	2.92	1.28	0.73	34.67	9.67	44.15	1/56	12/70
44° 52', 93° 13'			14	15	15	15	15	15	15	15	15	15	15	15					
			23	26	35	18	17	13	16	10	17	20	20	25	7	17	7		
Rochester WSO	21	7004	0.69	0.88	1.73	3.89	5.81	6.77	7.02	5.83	4.03	3.30	1.40	0.71	32.77	9.29	42.06	1/56	12/70
43° 55', 92° 30'			15	15	15	15	15	15	15	15	15	15	15	15					
			38	37	37	16	11	12	12	12	10	18	23	24	5	14	5		
MISSISSIPPI																			
Jackson WB Airport	22	4472	1.90	2.36	4.02	5.58	6.95	7.38	7.49	6.85	5.44	3.94	2.62	1.96	37.34	18.37	55.70	1/56	12/70
32° 19', 90° 4'			15	15	15	15	14	15	15	15	14	14	14	15					
			23	10	18	8	8	12	12	11	14	12	8	17	5	7	5		
Meridian WB Airport	22	5776	1.91	2.57	4.13	5.45	6.52	7.00	6.68	5.97	5.23	4.22	2.78	1.99	35.71	18.81	54.52	9/59	12/70
32° 19', 88° 45'			11	11	11	11	11	11	11	11	12	12	12	12					
			16	11	16	6	11	11	12	11	10	12	7	6	6	5	5		
MISSOURI																			
Columbia WSO	23	1790	1.36	1.67	3.16	5.29	6.91	7.33	8.22	7.55	5.41	4.19	2.35	1.46	39.62	15.28	54.89	1/56	12/70
38° 49', 92° 13'			15	15	15	15	15	15	15	15	15	15	15	15					
			29	14	25	18	12	12	12	11	18	20	17	19	6	11	7		
Kansas City WSO	23	4359	1.37	1.83	3.47	5.45	7.34	7.94	8.84	8.09	5.69	4.47	2.39	1.56	42.36	16.07	58.43	1/56	12/70
39° 7', 94° 36'			15	15	15	15	15	15	15	15	15	15	15	15					
			32	20	26	12	16	13	14	12	20	24	25	20	10	12	8		

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MISSOURI (continued)																			
St Louis WSFO	23	7455	1.36	1.77	3.27	5.24	6.81	7.61	7.98	7.08	5.35	4.00	2.27	1.44	38.83	15.35	54.18	1/56	12/70
38° 45', 90° 22'			15	15	15	15	15	15	15	15	15	15	15	15					
			25	12	25	16	13	12	12	8	14	22	16	22	5	8	6		
Springfield WSO	23	7976	1.68	1.98	3.50	5.35	6.46	6.73	7.69	7.56	5.31	4.13	2.44	1.67	37.89	16.63	54.51	1/56	12/70
37° 13', 93° 22'			15	15	15	15	15	15	15	15	15	15	15	15					
			25	12	27	12	13	12	13	12	20	24	17	18	7	10	6		
MONTANA																			
Billings WB Airport	24	807	1.50	1.96	3.03	4.35	6.36	7.48	10.21	9.02	5.79	4.29	2.32	1.90	43.14	15.06	58.19	1/56	12/70
45° 48', 108° 31'			15	15	15	15	15	15	15	15	15	15	15	15					
			43	37	30	18	16	22	11	10	18	20	18	26	6	12	6		
Great Falls WB Airport	24	3751	1.50	1.76	2.81	4.30	6.35	7.64	10.19	8.95	5.78	4.29	2.37	1.83	43.20	14.63	57.42	1/56	12/70
47° 28', 111° 21'			14	14	15	15	15	15	15	15	15	15	15	15					
			49	43	30	18	16	19	14	13	24	25	27	37	8	12	8		
Helena WB Airport	24	4055	0.84	1.23	2.24	3.77	5.87	6.81	9.39	7.88	4.64	2.95	1.41	0.96	37.54	10.44	47.99	1/56	12/70
46° 36', 112° 0'			15	15	15	15	15	15	15	15	15	15	15	15					
			37	37	26	14	16	20	11	12	18	18	18	26	7	10	6		
Missoula WB Airport	24	5745	0.44	0.78	1.84	3.48	5.31	6.10	9.21	7.37	4.04	1.86	0.79	0.46	33.89	7.80	41.68	1/56	12/70
46° 55', 114° 4'			15	15	15	15	15	15	15	15	15	15	15	15					
			42	32	23	12	18	14	16	14	20	14	24	45	8	12	8		
NEBRASKA																			
Grand Island WSO	25	3395	1.16	1.49	2.95	5.35	7.05	8.49	9.19	8.28	5.53	4.45	2.19	1.75	42.98	14.89	57.88	1/56	12/70
40° 58', 98° 19'			15	15	15	15	15	15	15	15	15	15	15	15					
			37	35	37	13	17	14	12	6	18	22	23	52	7	10	6		
North Platte WSO	25	6065	1.18	1.42	2.84	5.02	6.56	8.01	8.45	7.85	5.27	3.83	2.02	1.37	39.97	13.85	53.82	1/56	12/70
41° 7', 100° 40'			15	15	15	15	15	15	15	15	15	15	15	15					
			38	37	35	18	18	18	12	10	16	22	14	18	8	13	8		
Omaha WSFO	25	6255	1.06	1.43	3.04	5.26	7.04	8.21	8.63	7.26	4.68	3.82	2.01	1.27	39.64	14.06	53.70	1/56	12/70
41° 18', 95° 53'			15	15	15	15	15	15	15	15	15	15	15	15					
			24	33	32	12	16	13	12	5	17	22	22	22	5	12	6		
Scotts Bluff WSO	25	7665	1.51	1.89	3.14	5.10	6.95	8.46	9.77	8.60	6.04	4.32	2.38	1.59	44.14	15.62	59.75	1/56	12/70
41° 52', 103° 36'			15	15	15	15	15	15	15	15	15	15	15	15					
			25	26	25	18	14	13	8	8	12	18	14	30	5	8	5		

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TABLE II -- MONTHLY MEANS OF ESTIMATED "PAN EVAPORATION" COMPUTED FROM METEOROLOGICAL MEASUREMENTS USING A FORM OF THE PENMAN EQUATION*

	State No.	Station Index No.**	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	May-Oct***	Nov-Apr***	Annual***	Record Began Mo/Yr	Last Data Mo/Yr
NEVADA																			
Elko FAA Airport	26	2573	0.92	1.38	2.68	4.15	6.26	8.00	10.49	8.93	6.16	3.90	1.80	0.99	43.20	12.04	55.39	1/56	12/70
40° 49', 115° 46'			14	14	14	15	14	14	11	13	13	14	14	13					
			31	24	18	14	14	14	5	7	8	14	20	29	3	8	****		
Ely WB Airport	26	2631	1.62	1.76	3.34	4.82	7.46	9.31	11.14	9.72	7.13	4.63	2.33	1.66	49.39	15.64	65.05	1/56	12/70
39° 16', 114° 51'			15	15	14	15	15	15	15	15	15	15	15	15					
			23	18	23	19	17	17	7	11	10	16	23	29	5	11	5		
Las Vegas WB Airport	26	4436	3.67	4.55	7.81	10.67	14.72	16.92	17.32	15.49	12.02	8.22	4.62	3.39	84.69	34.72	119.41	1/56	12/70
36° 4', 115° 10'			15	15	15	15	15	15	15	15	15	15	15	15					
			10	16	10	12	6	7	8	8	7	8	10	13	5	6	5		
Reno WB Airport	26	6779	1.56	2.04	3.61	5.08	6.98	8.54	9.89	8.64	5.81	3.86	2.00	1.35	43.72	15.65	59.38	1/56	12/70
39° 30', 119° 46'			15	15	15	15	15	15	15	15	15	15	15	15					
			25	20	12	12	11	12	5	6	5	12	13	27	3	7	3		
Winnemucca WB Airport	26	9171	1.16	1.61	2.92	4.39	6.67	8.95	11.61	9.75	6.57	3.89	1.93	1.08	47.27	12.95	60.38	1/56	12/70
40° 53', 117° 48'			13	12	13	13	13	13	13	13	13	12	13	12					
			30	29	18	19	19	17	8	8	12	18	14	19	6	7	5		
NEW HAMPSHIRE																			
Concord WSO	27	1683	0.78	0.95	1.88	3.15	4.82	5.23	5.57	4.83	3.07	2.21	1.14	0.82	25.73	8.72	34.44	1/56	12/70
43° 11', 71° 30'			15	15	15	15	15	15	15	15	15	15	15	15					
			26	22	18	22	16	18	14	7	13	16	22	19	7	12	8		
NEW JERSEY																			
Atlantic City WSO	28	311	1.58	1.78	2.99	4.52	6.00	6.67	6.82	6.00	4.54	3.22	2.21	1.56	33.24	14.65	47.77	1/59	12/70
39° 26', 74° 34'			12	12	12	12	12	12	12	11	12	12	12	12					
			25	17	12	18	14	11	16	10	12	14	12	16	7	7	7		
Newark WSO	28	6026	1.65	1.84	3.15	4.51	5.89	6.72	6.89	6.36	4.92	3.71	2.39	1.64	34.51	15.18	49.69	1/56	12/70
40° 41', 74° 10'			15	15	15	15	15	15	15	15	15	15	15	15					
			25	17	13	14	18	10	18	12	12	13	11	16	8	7	7		
NEW MEXICO																			
Albuquerque WB Airport	29	234	2.47	3.31	5.70	8.73	11.80	13.46	12.50	10.78	8.52	6.07	3.36	2.38	63.14	25.96	89.10	1/56	12/70
35° 3', 106° 37'			15	15	15	15	15	15	15	15	15	15	15	15					
			13	13	16	8	8	5	6	8	12	12	11	17	5	7	5		

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TABLE II -- MONTHLY MEANS OF ESTIMATED "PAN EVAPORATION" COMPUTED FROM METEOROLOGICAL MEASUREMENTS USING A FORM OF THE PENMAN EQUATION*

	State No.	Station Index No.**	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	May-Oct***	Nov-Apr***	Annual***	Record Began Mo/Yr	Last Data Mo/Yr
NEW MEXICO (continued)																			
Roswell WSO	29	7609	2.85	4	6	8	12	13	11	10	8	6	4	3	60	28	88	1/56	12/68
33° 18', 104° 31'			10	8	9	9	9	9	9	8	9	9	9	9					
			23	****	****	****	****	****	****	****	****	****	****	****	****	****	****		
NEW YORK																			
Albany WSFO	30	42	0.72	1.01	2.00	3.77	5.00	5.84	6.37	5.39	3.55	2.54	1.41	0.78	28.70	9.69	38.40	1/56	12/70
42° 45', 73° 48'			15	15	15	15	15	15	15	15	15	15	15	15					
			35	25	17	17	14	11	11	8	12	18	13	25	5	12	5		
Binghamton WSO	30	687	0.70	0.84	1.68	3.32	4.85	5.79	5.92	5.13	3.54	2.42	1.29	0.72	27.64	8.56	36.20	1/56	12/70
42° 13', 75° 58'			15	15	15	15	15	15	15	15	15	15	15	15					
			20	27	18	20	20	14	18	13	19	20	23	22	10	10	7		
Buffalo WSFO	30	1012	0.97	0.98	1.75	3.35	5.07	6.50	6.93	5.72	4.07	2.74	1.51	1.01	31.02	9.65	40.89	1/56	12/70
42° 55', 78° 43'			14	15	15	15	15	15	15	15	15	15	15	15					
			25	18	16	23	16	12	11	10	12	18	12	19	5	7	3		
New York WB LaGuardia Airport	30	5811	1.98	2.15	3.32	4.69	6.35	7.25	7.64	6.73	5.50	4.18	2.82	1.95	37.64	16.91	54.55	1/56	12/70
40° 46', 73° 52'			15	15	15	15	15	15	15	15	15	15	15	15					
			23	14	11	12	14	8	17	12	10	12	8	25	5	6	5		
Rochester WSO	30	7167	0.91	0.94	1.79	3.50	5.21	6.56	6.78	5.69	3.79	2.68	1.45	0.94	30.71	9.53	40.24	1/56	12/70
43° 7', 77° 40'			15	15	15	15	15	15	15	15	15	15	15	15					
			51	24	18	19	18	11	12	8	12	18	17	25	6	12	5		
Syracuse WSO	30	8383	0.79	0.95	1.77	3.48	4.96	6.15	6.58	5.60	3.76	2.54	1.52	0.89	29.58	9.39	38.97	1/56	12/70
43° 7', 76° 7'			15	15	15	15	15	15	15	15	15	15	15	15					
			42	24	18	17	16	11	14	7	14	19	18	23	7	12	7		
NORTH CAROLINA																			
Cape Hatteras WSO	31	1458	2.12	2.42	3.69	5.44	6.69	7.07	7.59	6.57	5.64	4.05	2.91	2.26	37.61	18.85	56.45	1/56	12/70
35° 16', 75° 33'			15	15	15	15	15	15	15	15	15	15	15	15					
			13	14	17	14	18	14	13	10	12	10	10	13	8	6	6		
Charlotte WSO	31	1690	1.95	2.44	4.07	6.04	7.16	7.63	7.64	7.06	5.45	3.87	2.70	2.07	38.81	19.27	58.08	1/56	12/70
35° 13', 80° 55'			15	15	15	15	15	15	15	15	15	15	15	15					
			16	8	17	8	12	12	11	8	12	17	10	10	3	5	3		
Greensboro WSO	31	3630	1.82	2.21	3.95	5.25	6.41	6.72	6.69	6.21	4.64	3.49	2.47	1.86	34.16	17.56	51.72	1/56	12/70
36° 4', 79° 49'			15	15	15	15	15	15	15	15	15	15	15	15					
			18	13	25	13	12	8	8	12	11	18	11	12	3	6	3		

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NORTH CAROLINA (continued)																			
Raleigh Durham WB Airport	31	7069	2.01	2.44	4.07	5.81	6.38	6.87	6.89	6.25	4.88	3.56	2.71	2.15	34.90	19.18	54.29	1/56	12/70
35° 52', 78° 46'			15	15	15	15	15	14	15	15	15	15	15	15					
			19	12	22	12	16	12	12	14	12	16	12	13	6	7	5		
Wilmington WSO	31	9457	2.10	2.64	4.21	6.35	7.31	7.24	7.53	6.40	5.34	4.00	2.86	2.39	37.81	20.55	58.35	1/56	12/70
34° 16', 77° 55'			15	15	15	15	15	15	15	15	15	15	15	15					
			18	12	18	8	12	8	14	11	10	14	12	10	5	8	5		
Winston-Salem WB Airport	31	9539	2.14	2.44	4	6	7	7	7	6	5	4	3	2	36	20	56	1/56	2/65
36° 7', 80° 13'			10	10	9	9	9	9	9	9	9	9	9	9					
			16	7	****	****	****	****	****	****	****	****	****	****	****	****	****		
NORTH DAKOTA																			
Bismarck WSO	32	819	0.55	0.71	1.95	4.07	6.49	7.28	8.68	8.11	4.82	3.27	1.33	0.68	38.65	9.37	47.48	1/56	12/70
46° 46', 100° 45'			15	14	14	15	15	15	15	15	15	15	14	15					
			38	24	31	17	16	18	16	17	18	20	26	35	8	11	7		
Fargo WSO	32	2859	0.50	0.68	1.63	3.64	5.91	6.54	7.77	7.08	4.21	2.92	1.13	0.56	34.42	8.28	43.39	2/56	12/70
46° 53', 96° 48'			13	14	15	14	15	15	15	15	15	15	15	14					
			44	25	37	19	24	13	16	12	18	25	31	36	6	19	5		
Williston WSO	32	9425	0	1	1.53	3.56	6.19	6.93	9	7.72	5	3	1	1	38	8	46	1/56	12/70
48° 10', 103° 37'			9	9	10	10	10	10	9	10	9	9	9	9					
			****	****	31	19	13	13	****	14	****	****	****	****	****	****	****		
OHIO																			
Akron Canton WSO	33	58	0.95	1.12	2.10	3.70	5.09	5.99	6.10	5.63	4.19	3.27	1.81	1.00	30.28	10.67	40.94	1/56	12/70
40° 55', 81° 25'			15	15	15	15	15	15	15	15	15	15	15	15					
			33	23	20	18	12	16	12	7	12	17	13	26	6	12	5		
Cleveland WSFO	33	1657	1.02	1.16	2.15	3.89	5.86	6.84	6.83	5.89	4.24	3.12	1.87	1.20	32.78	11.29	44.07	1/56	12/70
41° 23', 81° 51'			15	15	15	15	15	15	15	15	15	15	15	15					
			32	22	22	16	12	8	8	11	11	18	12	25	5	10	5		
Columbus WSO	33	1786	1.06	1.23	2.55	3.92	5.73	6.59	6.79	5.90	4.10	3.01	1.71	1.08	32.13	11.56	43.69	1/56	12/70
40° 0', 82° 52'			15	15	15	15	15	15	15	15	15	15	15	15					
			41	18	20	17	16	12	12	13	20	18	14	24	7	12	6		
Dayton WSO	33	2075	1.14	1.38	2.58	4.35	6.34	7.58	7.46	6.81	5.04	3.54	1.90	1.22	36.77	12.56	49.34	1/56	12/70
39° 53', 84° 13'			15	15	15	15	15	15	15	15	15	15	15	15					
			35	16	20	17	16	11	14	10	10	16	14	19	6	8	6		

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OHIO (continued)																			
Toledo WB Airport	33	8357	0.81	1.09	2.13	3.66	5.86	6.63	6.83	5.84	4.09	2.94	1.51	0.83	32.20	10.03	42.23	1/56	12/70
41° 36', 83° 48'			15	15	15	15	15	15	15	15	15	15	15	15					
			32	23	25	18	16	11	12	7	7	20	31	19	6	11	6		
Youngstown WSO	33	9406	0.84	1.00	2.06	3.58	4.97	5.89	5.88	5.29	3.88	3.02	1.72	0.92	28.93	10.11	39.04	1/56	12/70
41° 16', 80° 40'			15	15	15	15	15	15	15	15	15	15	15	15					
			31	16	18	18	14	8	14	10	14	20	23	18	6	8	5		
OKLAHOMA																			
Oklahoma City WSFO	34	6661	2.00	2.54	4.47	6.33	7.37	8.61	10.06	9.62	6.36	5.01	3.15	2.30	47.03	20.78	67.81	1/56	12/70
35° 23', 97° 36'			15	15	15	15	15	15	15	15	15	15	15	15					
			38	22	31	17	17	10	13	14	24	19	19	22	10	13	8		
Tulsa WSO	34	8992	1.91	2.34	4.05	5.89	6.76	7.79	9.09	8.37	5.94	4.70	2.97	2.10	42.65	19.25	61.90	1/56	12/70
36° 10', 95° 53'			15	15	15	15	15	15	15	15	15	15	15	15					
			31	18	30	18	18	13	17	18	25	24	18	16	12	14	12		
OREGON																			
Astoria WB Airport	35	328	0.95	1.24	1.83	2.53	3.73	4.10	4.81	4.02	2.82	1.58	1.03	0.96	21.07	8.54	29.61	1/56	12/70
46° 8', 123° 52'			15	15	15	15	15	15	15	15	15	15	15	15					
			23	32	24	14	13	13	11	12	12	22	19	74	5	12	5		
Medford WB Airport	35	5429	0.73	1.30	2.62	4.08	5.93	7.99	10.28	8.77	5.87	2.75	0.99	0.57	41.59	10.30	51.89	1/56	12/70
42° 22', 122° 52'			15	15	15	15	15	15	15	15	15	15	15	15					
			26	18	20	16	16	18	10	11	11	20	31	43	6	10	6		
Pendleton WB Airport	35	6546	1.13	1.68	3.16	4.72	6.73	9.31	11.88	9.92	6.74	3.53	1.62	1.09	48.10	13.39	61.50	1/56	12/70
45° 40', 118° 51'			15	15	15	15	15	15	15	15	15	15	15	15					
			44	26	12	18	17	10	7	10	10	18	17	35	5	11	5		
Portland WB Airport	35	6751	1.07	1.47	2.23	3.06	4.65	5.77	7.45	6.12	3.89	2.05	1.25	0.89	30.23	9.97	40.30	1/56	12/70
45° 36', 122° 36'			15	15	15	15	15	15	15	15	15	14	15	15					
			29	26	18	16	20	18	13	16	16	17	20	16	11	6	8		
Salem WB Airport	35	7500	0.93	1.24	2.09	2.90	4.10	5.44	7.41	6.17	4.20	2.13	1.09	0.79	29.46	9.04	38.50	1/56	12/70
44° 55', 123° 1'			15	15	15	15	15	15	15	15	15	15	15	15					
			29	24	23	18	18	14	12	14	13	12	25	38	8	7	7		

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PENNSYLVANIA																			
Allentown WSO	36	106	1.29	1.47	2.60	4.01	5.16	6.02	6.05	5.37	3.91	2.90	1.78	1.16	29.42	12.31	41.73	1/56	12/70
40° 38', 75° 25'			15	15	15	15	15	15	15	15	15	15	15	15					
			31	25	16	14	17	10	18	11	18	12	12	14	7	8	5		
Erie WSO	36	2682	1.09	1.02	1.96	3.62	5.11	6.34	6.58	5.79	4.31	3.48	2.03	1.32	31.61	11.09	42.82	2/60	12/70
42° 4', 80° 11'			10	11	11	11	11	11	11	11	11	11	11	11					
			38	17	20	19	17	17	11	7	10	17	11	18	5	12	5		
Harrisburg FAA Airport	36	3699	1.40	1.72	2.92	4.66	6.16	6.94	7.51	6.41	4.39	3.05	1.95	1.41	34.46	14.06	48.52	1/56	12/70
40° 13', 76° 51'			15	15	15	15	15	15	15	15	15	15	15	15					
			25	20	12	16	16	11	16	10	13	12	11	12	8	6	5		
Philadelphia WSFO	36	6889	1.47	1.78	3.00	4.67	6.19	7.08	7.13	6.44	4.74	3.35	2.18	1.56	34.93	14.67	49.60	1/56	12/70
39° 52', 75° 13'			15	15	15	15	15	15	15	15	15	15	15	15					
			25	19	16	14	13	6	11	8	12	6	10	17	5	8	5		
Pittsburgh WSO	36	6993	1.09	1.26	2.42	4.07	5.58	6.43	6.74	5.91	4.29	3.17	1.87	1.15	32.11	11.82	43.62	1/56	12/70
40° 30', 80° 13'			15	14	15	15	15	15	15	15	15	15	14	15					
			32	20	22	17	17	10	12	10	18	18	17	17	6	11	6		
Scranton WSO	36	7905	0.94	1.13	2.12	3.87	5.41	6.10	6.22	5.45	3.71	2.60	1.52	0.98	29.49	10.55	40.04	1/56	12/70
41° 19', 75° 43'			15	15	15	15	15	15	15	15	15	15	15	15					
			30	20	20	19	17	12	14	10	17	17	17	16	7	11	7		
Williamsport WSO	36	9728	1.12	1.27	2.21	3.76	4.82	5.49	5.54	4.73	3.45	2.54	1.56	1.07	26.55	10.98	37.53	10/59	12/70
41° 15', 76° 55'			10	10	10	10	10	11	11	11	11	12	12	12					
			30	24	18	18	17	10	16	13	18	20	17	18	7	7	5		
RHODE ISLAND																			
Providence WSO	37	6698	1.49	1.66	2.83	4.35	5.75	6.17	6.51	5.77	4.16	3.09	2.05	1.51	31.45	13.88	45.33	1/56	12/70
41° 43', 71° 25'			15	15	15	15	15	15	15	15	15	15	15	15					
			23	16	11	16	14	13	14	12	8	13	12	12	7	6	6		
SOUTH CAROLINA																			
Charleston WSO	38	1544	2.46	3.11	4.68	6.28	7.32	7.13	7.28	6.53	5.26	4.22	3.12	2.66	37.61	22.31	59.94	1/56	12/70
32° 53', 80° 1'			15	15	15	15	15	15	15	15	15	14	15	15					
			12	11	18	8	14	8	13	11	12	18	13	11	7	7	7		
Columbia WSFO	38	1939	2.01	2.53	4.45	6.47	7.21	7.51	7.67	6.99	5.55	3.92	2.82	2.23	38.85	20.52	59.37	1/56	12/70
33° 56', 81° 7'			15	15	15	15	15	15	15	15	15	15	15	15					
			12	8	14	7	16	13	11	13	10	14	8	12	6	5	5		

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TABLE II -- MONTHLY MEANS OF ESTIMATED "PAN EVAPORATION" COMPUTED FROM METEOROLOGICAL MEASUREMENTS USING A FORM OF THE PENMAN EQUATION*

	State No.	Station Index No.**	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	May-Oct***	Nov-Apr***	Annual***	Record Began Mo/Yr	Last Data Mo/Yr
SOUTH CAROLINA (continued)																			
Greenville Spartanburg	38	3747	2.09	2.56	4.33	6.01	6.88	6.92	7.08	6.67	5.06	3.93	2.92	2.17	36.56	20.07	56.63	1/56	12/70
34° 53', 82° 13'			15	15	15	15	15	15	15	15	15	15	15	15					
			18	8	18	12	14	12	10	13	12	17	12	10	6	6	5		
SOUTH DAKOTA																			
Huron WSO	39	4127	0.69	0.83	2.15	4.45	6.26	7.68	8.89	7.68	4.96	3.52	1.60	0.84	38.99	10.62	49.90	1/56	12/70
44° 22', 98° 13'			14	15	15	15	15	15	15	15	15	15	15	15					
			39	47	44	17	14	22	14	11	18	20	25	33	10	16	8		
Rapid City WSO	39	6937	1.31	1.49	2.80	4.69	6.51	7.67	9.27	9.15	6.26	4.55	2.26	1.49	43.42	14.16	57.75	1/56	12/70
44° 3', 103° 4'			14	15	15	15	15	15	15	15	15	15	15	15					
			26	23	26	16	14	22	14	14	16	19	16	25	10	7	7		
Sioux Falls WSO	39	7667	0.78	1.00	2.23	4.45	6.50	7.76	8.49	7.35	4.80	3.63	1.69	0.93	38.53	11.09	49.62	1/56	12/70
43° 34', 96° 43'			15	15	15	15	15	15	15	15	15	15	15	15					
			30	23	37	10	11	16	12	10	17	18	18	29	6	11	6		
TENNESSEE																			
Bristol WB Airport	40	1094	1.37	1.77	3.19	4.48	5.32	5.73	5.68	5.37	4.64	3.60	2.07	1.45	30.34	14.36	44.70	11/59	12/70
36° 28', 82° 23'			11	11	11	11	11	11	11	11	11	11	12	12					
			20	12	18	12	14	8	12	10	12	16	12	18	6	3	3		
Chattanooga WB Airport	40	1656	1.48	1.98	3.56	5.29	6.41	6.52	6.68	6.17	4.87	3.33	2.10	1.54	33.99	15.95	49.94	1/56	12/70
35° 1', 85° 11'			15	15	15	15	15	15	15	15	15	15	15	15					
			18	11	17	10	13	13	12	13	12	18	11	12	7	6	5		
Knoxville WB Airport	40	4950	1.45	1.94	3.62	5.37	6.65	6.61	6.71	6.26	4.95	3.41	2.11	1.56	34.57	16.04	50.61	1/56	12/70
35° 49', 83° 58'			15	15	15	15	15	15	15	15	15	15	15	15					
			18	10	19	12	13	16	16	13	11	17	11	23	8	5	6		
Memphis WB Airport	40	5954	1.90	2.26	4.14	6.28	7.76	7.99	8.31	7.62	5.82	4.47	2.79	2.03	41.97	19.40	61.37	1/56	12/70
35° 3', 89° 58'			15	15	15	15	15	15	15	15	15	15	15	15					
			22	8	20	12	10	11	12	11	16	13	14	17	6	6	5		
Nashville WB Airport	40	6402	1.50	1.87	3.45	5.43	6.78	7.31	7.52	6.87	5.14	3.72	2.14	1.67	37.34	16.07	53.41	1/56	12/70
36° 7', 86° 40'			15	15	15	15	15	15	15	15	15	15	15	15					
			31	18	27	12	11	11	11	12	14	19	14	19	6	12	5		

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TEXAS																			
Abilene WSO	41	16	3.32	3.45	6.04	7.80	9.61	10.83	11.74	10.78	7.39	5.95	4.03	3.27	56.30	27.91	84.21	1/56	12/70
32° 25', 99° 40'			15	15	15	15	15	15	15	15	15	15	15	15					
			20	18	25	20	18	13	14	10	20	18	20	23	8	12	8		
Amarillo WSO	41	211	2.99	3.22	5.65	8.26	10.77	11.27	11.54	10.30	7.67	6.51	3.91	3.14	58.06	27.17	85.23	1/56	12/70
35° 13', 101° 41'			15	15	15	15	15	15	15	15	15	15	15	15					
			25	25	31	18	17	10	12	10	17	22	22	20	8	13	8		
Austin WB Airport	41	428	2.78	3.26	5.20	5.99	7.67	9.12	10.60	9.68	7.00	5.35	3.57	2.78	49.42	23.58	73.00	1/56	12/70
30° 18', 97° 41'			15	15	15	15	15	15	15	15	15	15	15	15					
			22	17	18	14	16	12	12	12	13	18	22	23	7	12	8		
Brownsville WB Airport	41	1136	3.10	3.54	5.60	7.01	8.37	9.37	10.30	9.01	6.89	5.57	4.11	3.23	49.51	26.60	76.11	1/56	12/70
25° 53', 97° 25'			15	15	15	15	15	15	15	15	15	15	15	15					
			18	22	13	16	12	11	10	10	12	17	19	20	6	11	7		
Corpus Christi WB Airport	41	2015	2.82	3.35	5.37	6.38	7.35	8.91	10.11	9.24	6.98	5.76	4.01	3.13	48.63	25.06	73.54	1/56	12/70
27° 46', 97° 30'			15	15	15	15	15	15	15	14	15	15	15	15					
			20	22	13	13	17	16	12	11	12	12	17	18	8	10	8		
Dallas WSO	41	2244	2.72	3.13	5.24	6.56	8.10	9.72	11.31	10.34	7.23	5.61	3.74	3.07	52.30	24.45	76.76	1/56	12/70
32° 51', 96° 51'			15	15	15	15	15	15	15	15	15	15	15	15					
			24	17	25	17	18	11	11	10	16	14	17	16	7	12	7		
El Paso WB Airport	41	2797	3.86	5.02	8.23	11.51	14.25	14.83	13.22	11.82	9.23	7.16	4.56	3.52	70.52	36.70	107.22	1/56	12/70
31° 48', 106° 23'			15	15	15	15	15	15	15	15	15	15	15	15					
			18	8	16	5	6	5	6	8	13	12	12	12	3	6	5		
Fort Worth WSO	41	3283	2.66	3.12	5.13	6.39	7.80	10.05	11.30	10.53	7.16	5.36	3.58	2.82	52.57	23.69	76.50	1/56	12/70
32° 49', 97° 3'			15	15	15	15	15	15	15	14	15	15	15	15					
			24	14	29	18	19	11	12	12	19	16	18	16	10	12	10		
Houston WB City	41	4305	2.91	3.39	5.03	5.85	7.39	8.38	8.64	7.81	6.50	5.38	3.60	2.84	44.09	23.61	67.38	1/56	12/70
29° 46', 95° 22'			15	15	15	15	15	15	15	15	15	15	15	14					
			23	12	17	12	8	12	8	13	13	14	16	16	7	10	7		
Lubbock WB Airport	41	5411	3.19	3.54	5.67	8.46	10.24	11.02	10.89	9.64	7.33	6.08	4.00	3.12	55.21	27.89	83.15	1/56	12/70
33° 38', 101° 49'			14	15	15	15	15	15	15	15	15	15	15	15					
			20	26	27	12	13	6	11	7	16	16	18	16	5	11	6		
Midland WSO	41	5890	3.48	3.93	6.75	9.17	11.24	11.79	11.92	11.04	7.90	6.33	4.22	3.42	60.11	30.97	91.12	1/56	12/70
31° 56', 102° 10'			15	15	15	15	15	14	15	15	15	15	15	15					
			22	18	20	12	12	7	12	10	13	18	18	17	6	11	7		

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TEXAS (continued)																			
Port Arthur WB Airport	41	7174	2.24	2.81	4.34	5.31	7.18	8.21	8.04	7.29	6.09	4.92	3.30	2.37	41.74	20.36	62.10	1/56	12/70
29° 58', 94° 1'			15	15	15	15	15	15	15	15	15	15	15	15					
			18	18	12	12	10	12	12	12	14	12	17	14	6	7	6		
San Angelo WSO	41	7943	3.49	3.91	6.75	8.35	9.62	10.79	11.91	11.13	7.77	6.06	4.57	3.37	57.27	30.43	87.70	1/56	12/70
31° 21', 100° 30'			15	15	15	15	15	15	15	15	15	15	15	15					
			19	18	25	14	14	13	11	11	18	17	36	19	7	8	6		
San Antonio WSO	41	7945	2.96	3.55	5.55	6.29	7.80	9.72	10.94	10.16	7.38	5.44	3.74	2.98	51.43	25.07	76.50	1/56	12/70
29° 31', 98° 28'			15	15	15	15	15	15	15	15	15	15	15	15					
			20	18	17	14	18	11	10	11	12	18	18	17	8	12	10		
Victoria WB Airport	41	9364	3.07	3.41	5.03	5.93	7.12	8.11	9.02	8.52	6.66	5.35	3.90	3.18	44.64	24.33	68.98	1/56	12/70
28° 51', 96° 55'			12	12	12	12	12	12	11	12	11	11	11	11					
			19	18	12	12	12	14	11	12	13	17	17	14	7	8	7		
Waco WB Airport	41	9419	2.88	3.29	5.41	6.45	7.74	9.90	11.31	10.63	7.51	6.14	3.94	3.00	53.23	24.96	78.19	1/56	12/70
31° 37', 97° 13'			15	15	15	15	15	15	15	15	15	15	15	15					
			22	18	24	17	14	13	13	12	17	22	18	20	10	12	10		
Wichita Falls WSO	41	9729	2.60	3.17	5.32	7.00	8.22	9.90	11.48	11.05	7.53	5.64	3.86	2.82	53.81	24.77	78.58	1/56	12/70
33° 58', 98° 28'			15	15	15	15	15	15	15	15	15	15	15	15					
			29	24	31	17	16	12	12	11	20	22	17	16	8	14	10		
UTAH																			
Salt Lake City WB Airport	42	7598	1.14	1.72	3.54	5.37	8.60	10.56	13.35	11.21	7.62	4.53	2.00	1.01	55.87	14.78	70.65	1/56	12/70
40° 46', 111° 58'			15	15	15	15	15	15	15	15	15	15	15	15					
			31	27	16	13	17	16	6	10	13	13	18	25	7	7	5		
VERMONT																			
Burlington WSO	43	1081	0.68	0.90	1.62	3.06	4.56	5.65	5.96	5.17	3.15	2.20	1.21	0.73	26.69	8.21	35.02	1/56	12/70
44° 28', 73° 8'			14	15	15	15	15	15	15	15	15	15	14	14					
			33	25	17	18	16	18	14	12	11	18	23	25	6	13	8		
VIRGINIA																			
Lynchburg WSO	44	5120	1.71	1.81	3.15	5.12	6.00	6.70	6.35	5.65	4.47	3.01	2.52	1.63	32.19	15.66	47.97	1/56	10/67
37° 19', 79° 11'			10	10	10	10	10	10	10	10	10	11	10	10					
			13	12	18	17	11	12	12	6	25	18	27	12	5	****	****		

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VIRGINIA (continued)																			
Norfolk WSO	44	6139	2.05	2.31	3.96	5.78	6.90	7.52	7.47	6.41	5.18	3.70	2.77	2.20	37.19	19.07	56.25	1/56	12/70
36° 52', 76° 11'			15	15	15	15	15	15	15	15	15	15	15	15					
			18	16	14	17	10	11	10	12	10	10	11	12	5	6	5		
Richmond WSO	44	7201	1.66	2.03	3.51	5.36	6.64	7.12	7.06	6.11	4.58	3.24	2.45	1.73	34.75	16.75	51.50	1/56	12/70
37° 30', 77° 19'			15	15	15	15	15	15	15	15	15	15	15	15					
			18	14	18	14	10	12	11	10	12	16	12	13	5	8	5		
Roanoke WSO	44	7285	2.09	2.40	3.95	5.34	6.27	6.60	6.73	6.20	4.71	3.81	2.74	2.04	34.32	18.57	52.89	1/56	12/70
37° 19', 79° 58'			15	15	15	15	15	15	15	15	15	15	15	15					
			16	16	19	16	8	10	10	7	12	16	12	12	5	7	5		
Sterling R&D	44	8084	1.45	1.84	3.35	4.67	5.77	6.57	6.82	6.23	4.50	3.17	2.18	1.51	33.06	15.01	48.06	1/61	12/70
38° 58', 77° 28'			10	10	10	10	10	10	10	10	10	10	10	10					
			27	20	18	18	12	6	12	11	16	16	13	17	7	8	6		
WASHINGTON																			
Olympia WB Airport	45	6114	0.64	1.20	1.87	2.75	4.01	4.63	5.84	4.92	3.11	1.50	0.76	0.51	23.99	7.73	31.73	1/56	12/70
46° 58' 122° 53'			15	15	15	15	14	13	13	13	13	14	15	15					
			36	37	18	16	18	16	16	18	14	12	19	42	10	12	8		
Seattle Tacoma WB	45	7473	1.15	1.57	2.30	3.18	5.08	5.80	7.00	5.53	3.52	2.00	1.23	1.02	28.92	10.44	39.36	1/56	12/70
47° 26', 122° 18'			15	15	15	15	15	15	15	15	15	15	15	15					
			17	26	18	13	18	16	13	16	16	18	26	23	8	8	6		
Spokane WB Airport	45	7938	0.61	1.11	2.28	4.04	6.28	7.82	10.66	8.63	5.37	2.58	0.92	0.51	41.36	9.47	50.83	1/56	12/70
47° 37', 117° 31'			15	15	15	15	15	14	15	15	15	15	15	15					
			33	26	18	17	16	12	7	13	17	24	24	30	6	10	5		
Tatoosh WB Airport	45	8332	1.62	1.56	2.06	2.50	3.24	3.37	2.97	2.49	2.25	1.83	1.59	1.21	16.07	10.59	26.66	1/56	12/66
48° 22', 124° 43'			11	11	11	11	11	10	11	11	11	11	10	11					
			23	23	23	18	18	26	18	22	13	25	25	37	7	11	6		
Yakima WB Airport	45	9465	0.75	1.39	2.91	4.48	6.58	7.83	9.77	7.92	5.28	2.90	1.32	0.72	40.29	11.58	51.87	1/56	12/70
46° 34', 120° 31'			15	15	15	15	15	15	15	15	15	15	15	15					
			44	31	16	16	12	13	8	12	11	13	20	25	6	12	6		
WEST VIRGINIA																			
Charleston WSFO	46	1570	1.37	1.67	2.99	4.41	5.46	5.68	5.45	5.00	4.04	3.02	1.97	1.42	28.63	13.83	42.45	1/56	12/70
38° 22', 81° 36'			15	15	15	15	15	15	15	15	15	15	15	15					
			24	14	20	12	12	10	12	11	14	13	18	20	6	7	6		

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WEST VIRGINIA (continued)																			
Elkins WSO	46	2718	0.99	1.21	2.23	3.14	4.33	4.39	4	4	3	2	1	1	22	10	32	1/56	6/68
38° 55', 79° 49'			10	10	10	10	11	11	8	9	9	9	9	9					
			24	25	19	14	12	10	****	****	****	****	****	****	****	****	****		
WISCONSIN																			
Green Bay WSO	47	3269	0.62	0.81	1.70	3.46	5.17	6.15	6.64	5.33	3.38	2.34	1.16	0.63	29.02	8.37	37.30	1/56	12/70
44° 28', 88° 7'			14	15	15	15	15	15	15	15	15	15	15	15					
			24	29	30	18	12	12	12	12	12	25	19	25	7	13	7		
La Crosse WSO	47	4370	0.74	1.03	1.99	4.31	6.15	6.95	7.26	6.11	3.85	3.20	1.45	0.80	33.43	10.08	43.36	1/56	9/68
43° 52', 91° 15'			13	13	13	13	13	13	12	13	13	12	12	12					
			24	33	30	16	12	12	7	8	12	18	19	24	5	12	5		
Madison WSO	47	4961	0.74	1.00	1.99	3.75	5.34	6.69	6.86	5.80	3.63	2.71	1.28	0.69	31.03	9.43	40.46	1/56	12/70
43° 7', 89° 19'			14	15	15	15	15	15	15	15	15	15	15	15					
			27	24	25	14	25	14	8	10	13	20	14	30	6	12	6		
Milwaukee WSO	47	5479	0.85	1.09	2.01	3.82	5.57	6.70	7.25	5.96	4.04	2.88	1.55	0.90	32.39	10.22	42.62	1/56	12/70
42° 56', 87° 53'			15	15	15	15	15	15	15	15	15	15	15	15					
			24	26	30	14	18	13	13	12	11	19	13	19	7	12	6		
WYOMING																			
Casper WSO	48	1570	1.85	1.92	3.03	4.73	6.92	8.76	10.64	9.85	6.65	5.18	2.38	1.82	48.01	15.73	63.74	1/56	12/70
42° 55', 106° 28'			15	15	15	15	15	15	15	15	15	15	15	15					
			25	23	27	18	12	16	10	6	13	41	19	24	7	7	5		
Cheyenne WSO	48	1675	2.42	2.41	3.32	5.26	7.01	8.16	9.23	8.61	6.18	4.77	2.95	2.51	43.96	18.87	62.83	1/56	12/70
41° 8, 104° 49'			15	15	15	15	15	15	15	15	15	15	15	15					
			23	23	24	19	14	18	12	10	12	20	14	18	8	7	5		
Lander WB Airport	48	5390	1.09	1.51	2.84	4.25	6.42	7.98	9.87	9.05	5.63	3.55	1.53	1.11	42.50	12.33	54.83	1/56	12/70
42° 49', 108° 43'			15	15	15	15	15	15	15	15	15	15	15	15					
			31	24	17	13	16	18	7	7	18	22	22	22	6	5	5		
Sheridan WSO	48	8155	0.96	1.11	2.33	3.96	5.56	6.56	8.64	7.86	4.59	3.27	1.52	1.16	36.65	11.06	48.03	1/56	11/70
44° 46', 106° 58'			15	13	15	14	14	14	14	15	14	15	15	14					
			41	27	23	18	20	19	11	10	20	20	20	38	7	6	5		

* First line of data in the table for each station is mean evaporation in inches; second line is the number of years of record per month; and third line is the coefficient of variation in percent (computed only when there are 10 years or more of record during 1956-1970).

** Climatological Data (NOAA-EDIS)

*** Sum of monthly means.

**** Insufficient data between 1956-70 to compute the coefficient of variation.

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APPENDIX A

Example of Estimating Monthly Data for a Location with no Observed Data

In this example, steps for prorating data will be illustrated with some of the problems caused by incomplete records. The basic steps are the following:

1. Determine annual (or seasonal) values for potential (FWS) evaporation from the maps in the NOAA Technical Report NWS 33, Evaporation Atlas for the Contiguous 48 United States.

2. Locate appropriate stations which have data in the tables of this report.

3. Determine monthly fractions of annual (or seasonal) evaporation for the stations in the table by dividing the evaporation value for each month by the annual (or seasonal) value.

4. Multiply the monthly fractions just determined by the annual (or seasonal) value for the location of interest (as determined in step 1).

Suppose monthly mean potential evaporation is desired for Vaughn, New Mexico. Vaughn is located in the southwest corner of Guadelupe County.

1. From map 3 in the NOAA Technical Report NWS 33, Evaporation Atlas for the Contiguous 48 United States, the annual free water surface evaporation is found to be between the 55 and 60 inch isopleths. A linear interpolation would give approximately 58 inches. From map 2 the May-October evaporation is 41 inches.

2. The nearest stations to Vaughn having data in the table are Alamogordo Dam and Estancia. The elevation of Alamogordo Dam is between 4,000 and 4,500 feet. Vaughn is near 6,000 feet, and Estancia is 6,100 feet. There are only low hills between Estancia and Vaughn. Based on elevation and relief, Estancia would be the logical selection to prorate monthly values. However, because of the high elevation and limited period of record, Estancia has data only for the months from May to September. Because no annual (or May to October) value is listed, we cannot determine the required ratios. Santa Fe, found further north, is slightly higher and has some data for all the months of the year. It should be noted that Estancia has about 12 years of record in the tables and Santa Fe has up to 36 years in the summer and 17 years in the winter. Again, caution must be used in applying these data. It seems reasonable that those years when Santa Fe does have data in the winter are probably the milder years, and when the station lacks data it is likely that the weather was too cold and pans were frozen over during most of the winter period. If such is the case, then a true mean would be less than that indicated by the 17 years of available data.

3. To better illustrate the distribution of evaporation in this area, ratios of monthly to annual evaporation were computed for both Santa Fe and Alamogordo Dam and are shown in table A1.

Table A1

Monthly fractions of annual and seasonal evaporation at Alamogordo Dam and Santa Fe

Station	% of	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Alamogordo Dam	Annual	.035	.043	.078	.102	.121	.137	.130	.113	.093	.067	.045	.035
	May-Oct					.182	.207	.197	.171	.140	.102		
Santa Fe	Annual	.022	.032	.058	.095	.134	.160	.142	.121	.104	.072	.037	.021
	May-Oct					.183	.218	.193	.164	.142	.100		

Table A2

Monthly potential evaporation (FWS), in inches, at Vaughn, New Mexico, based on ratios (fraction) in table A1 and on annual and seasonal values taken from maps in NOAA Technical Report "Evaporation Atlas for the United States"

Station	Period	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Totals of Estimated Monthly Values
Alamogordo Dam	Annual	2.9	2.5	4.5	5.9	7.0	8.0	7.5	6.6	5.4	3.9	2.6	2.0	58.8
	May-Oct					7.5	8.5	8.1	7.0	5.7	4.2			41.0
Santa Fe	Annual	1.3	1.9	3.4	5.5	7.8	9.3	8.2	7.0	6.0	4.2	2.2	1.2	57.9
	May-Oct					7.5	8.9	7.9	6.7	5.8	4.1			36.9

4. Table A2 shows the monthly FWS evaporation at Vaughn resulting from multiplying the annual FWS from Atlas map 3 by monthly fractions based on the distributions at Alamogordo Dam and Santa Fe.

The evaporation estimates from table A2 are plotted in figure A1.

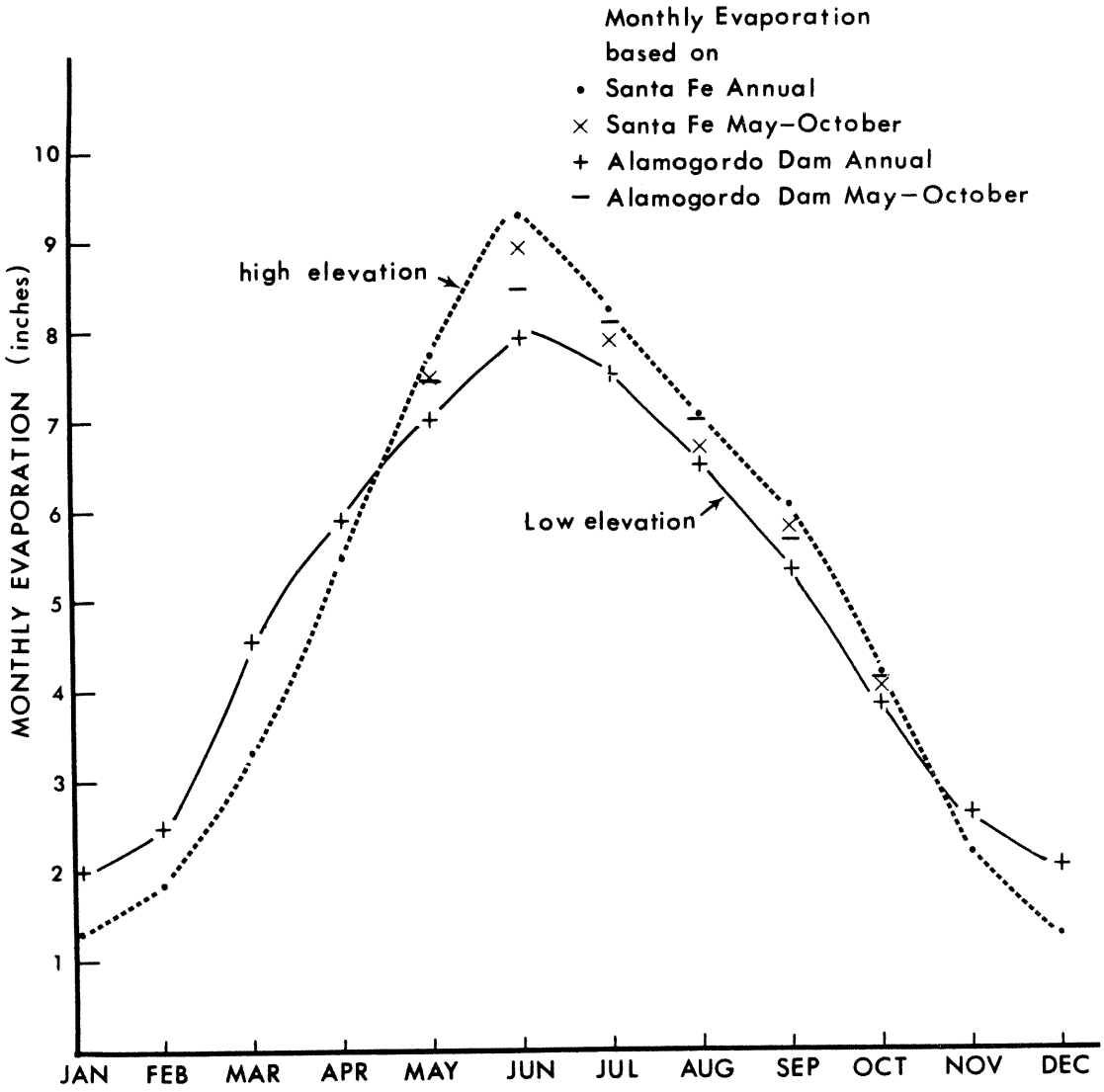

Figure A1. Monthly distribution at Vaughn, New Mexico based on evaporation distribution at Alamogordo Dam and Santa Fe.

The annual values are connected by lines. It is readily apparent that stations at higher elevations tend to have lower evaporation during the winter months and a higher fraction of the annual evaporation during the summer than do the stations at a lower elevation. Also apparent is a closer agreement of estimates based only on May-October ratios. Since Vaughn is only a little lower than Santa Fe and significantly higher than Alamogordo Dam, a reasonable decision would be to accept either the value estimated from Santa Fe or to take values from the graph between the values for the two sites but very near those for Santa Fe.

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