
Rainfall Appendix

Summary Statistics of Rainfall Data for Sites in the West-Central Florida

A Simple Conceptualized Rainfall/Discharge Relationship

Stream or river flows are, of course, integrally associated with rainfall. In his 1974 book entitled, *Water: A Primer*, Luna B. Leopold notes that “[s]treamflow is what is left over after precipitation has supplied the demands of vegetation and the process of evaporation. Leftovers or differences tend to vary greatly with time. For example, suppose the rainfall in one year is 40 inches and that evaporation and plant transpiration 20 inches. This leaves 20 inches to be carried off by the streams. Suppose that in the next year rainfall is 30 inches, 25 percent less than the year before. If evaporation and transpiration were the same, which is quite possible, streamflow would be only 10 inches, 50 percent less than in the year before. Thus a 25 percent change in rainfall becomes a 50 percent change in runoff. This means that the flow of streams is highly variable and sensitive to changes in rainfall.”

In the Southwest Florida Water Management District, average annual rainfall at most sites is between approximately 50 to 52 inches per year. Evapotranspiration is generally assumed to be about 38 inches per year; thus using Leopold’s simplified equation, one might expect streamflow (in the absence of withdrawals or discharges, no changes in storage, and without significant gains or losses from/to groundwater) to average about 12 inches per year (i.e., $50 - 38 = 12$). Interannual variability in rainfall may, however, be expected to lead to substantial variation in annual streamflow. For example, suppose the rainfall in one year is 50 inches and that evaporation and plant transpiration 38 inches. This leaves 12 inches to be carried off by the streams. Suppose that in the next year rainfall is 45 inches, 10 percent less than the year before. If evaporation and transpiration were the same, which is quite possible, streamflow would be only 7 inches, 42 percent less than in the year before. Thus a 10 percent change in rainfall becomes a 42 percent change in runoff. This means that the flow of streams is highly variable and sensitive to changes in rainfall, and that relatively small changes in rainfall can lead to relatively large changes in discharge.

To characterize regional rainfall variability for consideration when developing minimum flows, we examined rainfall data for a number of sites in and around the District (Figure 1). For this effort, we restricted analyses to sites with relatively long rainfall records that coincide with warm and cool cycles of the Atlantic Multidecadal Oscillation (AMO; see Enfield et al. 2001). We also chose not to in-fill missing daily rainfall total values, and excluded yearly rainfall totals for sites where the number of missing daily total rainfall values exceeded 30. While in-filling of

missing rainfall records may be acceptable for some analyses, we elected to base our evaluation of annual and longer-term rainfall statistics on only reported, measured records. We acknowledge that this may have led to underestimation of some yearly rainfall totals and in some instances, limited identification of some of the wettest or driest 10-year periods, simply because when one year of data was deleted, the determination of a 10-year mean would have to wait until 10 more contiguous years of data were available.

To illustrate our approach, graphical and tabular summary results are presented here for a rainfall data set created from reported daily rainfall at three long term National Weather Service (NWS) sites. The average-site data set is referred to as the BIO_AVG and was based on records collected at the BROOKSVILLE CHINSEGUT HILL NWS, INVERNESS 3 SE NWS, and OCALA NWS sites (see Figure 1). We developed the BIO_AVG data set to represent average rainfall conditions across the Withlacoochee River basin, and because when missing data occurred at any one of the NWS sites, a mean could be calculated using the other two. This approach resulted in a fairly complete rainfall record that contained no missing yearly, seasonal or monthly totals.

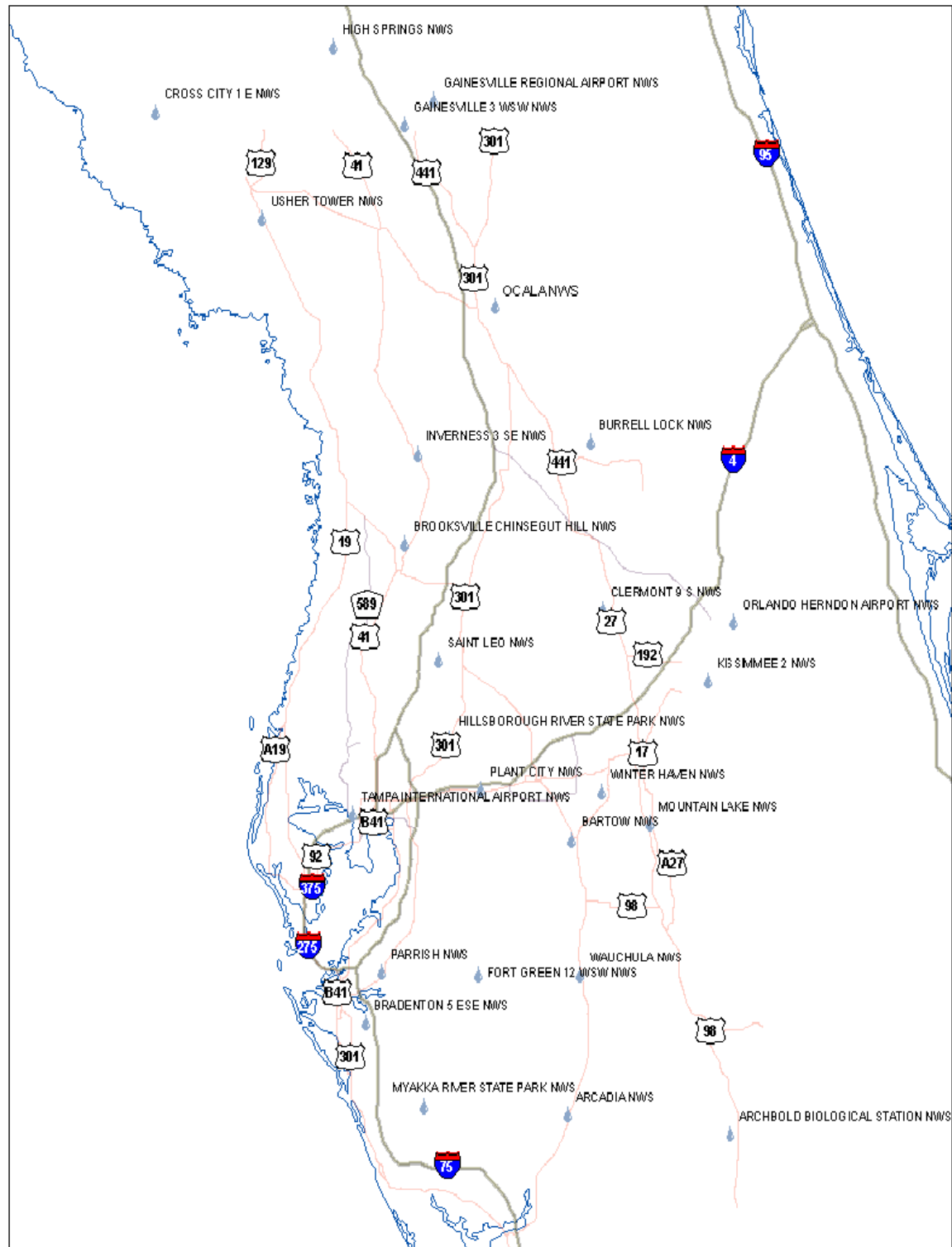


Figure 1. Locations of rainfall gaging stations (including the three sites used to develop the BIO_AVG data set) used for analyses of rainfall variation in west-central Florida.

Mean annual, dry and wet season rainfall totals (in inches) for the three AMO periods associated with the period of record for the BIO_AVG data set are shown in Figure 2. The bar charts in the figure illustrate rainfall totals for two warm AMO periods (1940-1969 and 1970-1994) and a single, cool AMO period (1970 to 1994).

BIO_AVG

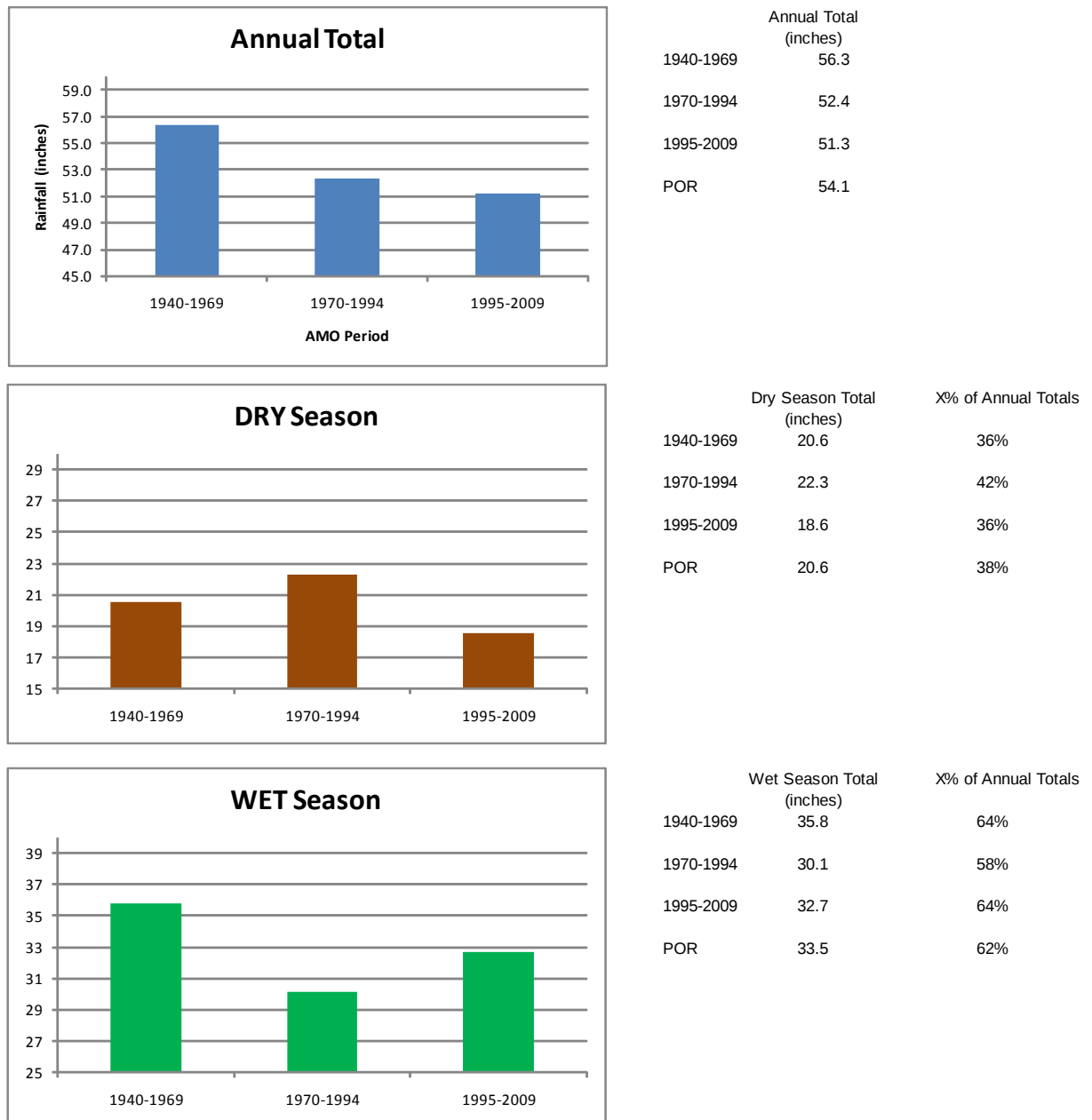


Figure 2. Summary information on mean annual, dry season and wet season rainfall for the BIO_AVG data set for three AMO periods.

For southwest Florida (and peninsular Florida in general, as discussed by Kelly 2004), the wet season rainfall occurs during the summer rainy season which is defined as the months of June, July, August and September; remaining months are considered the “dry” months. As explained by Enfield et al. (2001), and the premise of work done by Kelly (2004) and Kelly and Gore (2008), warm North Atlantic Sea Surface Temperatures (SST) have a positive effect on rainfall in peninsular Florida due to the associated increase in tropical storm and hurricane activity attributable to warmer SST. The tropical storm / hurricane season is generally defined as extending from June to November, with the majority of activity occurring in August and September. This activity would, therefore, tend to lead to greater rainfall totals during the normal peninsular Florida rainy season with increased tropical storm activity further contributing to the convective rainfall characteristic of the rainy season. As noted by Enfield (2001), Kelly (2004) and Kelly and Gore (2008), we hypothesize that the greater mean annual rainfall totals for the period 1940 to 1969, and decreased rainfall totals for the period 1970 to 1994 could be explained by the increase or decrease in tropical storm activity, respectively, that characterized the rainy season of these two periods.

If this argument holds, however, it might be expected that mean annual total rainfall should have again increased for the period 1995 to 2009, since we are reportedly in a warmer AMO phase. Mean annual rainfall totals for many sites throughout central Florida have actually remained low during this period and in some cases are lower than the “dry” (cool) AMO period that extended from 1970 through 1994. Inspection of the bar graphs of the wet and dry seasons for the three time periods, at least with respect to BIO_AVG (Figure 2), indicates that as might be expected actual wet season mean annual rainfall was higher in both the 1940-1969 (35.8 inches) and the 1995-2009 (33.5 inches) AMO warm periods than in the cool AMO period (1970-1994; 30.1 inches). However, increased wet season rainfall for the 1995-2009 period was offset by decreased dry season rainfall. Similar results were observed for a number rainfall gaging sites we evaluated (see data figures/tables to follow).

Because the amount of runoff to a river is dependent in most cases on the amount of storage in the watershed that must be filled before runoff occurs, it is helpful to have a sense of multi-year wet and dry periods and the cumulative effects of multi-year rainfall surpluses or deficits. Periods of extended drought may greatly increase the amount of storage in lakes, wetlands, and soils that must be overcome before runoff occurs. In the case of the BIO_AVG data set, the wettest consecutive years occurred during the early to mid-1960's (Figure 3). This extended period was generally a period of high discharge for many District rivers. Expectations regarding flows similar to those that occurred in the 1960s in the Withlacoochee River, for example, should be tempered by the knowledge that that this time period included the wettest 2 to 10 year rainfall periods based on 100-year rainfall records for the Ocala, Brooksville, and Inverness area. Also of note, the driest 2, 3, 4, 5 and 10 year periods of rainfall for that region occurred during the late 1990's to early 2000's, so it is reasonable to

expect that flows in the Withlacoochee River were relatively low during that period. Figure 3 also includes a plot of cumulative deviation from period of record mean annual rainfall for the BIO_AVG data site. This type of plot is useful for identifying periods of above average rainfall (upward sloping line) or below average rainfall (downward sloping line) with the extent or length of the downward or upward sloping segment indicative of the cumulative effect of wet or dry periods. The plot in Figure 3 clearly illustrates that the period of 1920 to approximately 1970 was much wetter than more recent decades.

	Mean	Year Ending
Driest 2 yr mean annual	39.68	2000
Driest 3 yr mean annual	42.36	2000
Driest 4 yr mean annual	44.32	2001
Driest 5 yr mean annual	45.24	2000
Driest 10 year mean annual	48.68	2001
Wettest 2 yr mean annual	75.30	1960
Wettest 3 yr mean annual	70.83	1960
Wettest 4 yr mean annual	67.81	1960
Wettest 5 yr mean annual	63.16	1961
Wettest 10 year mean annual	59.74	1966

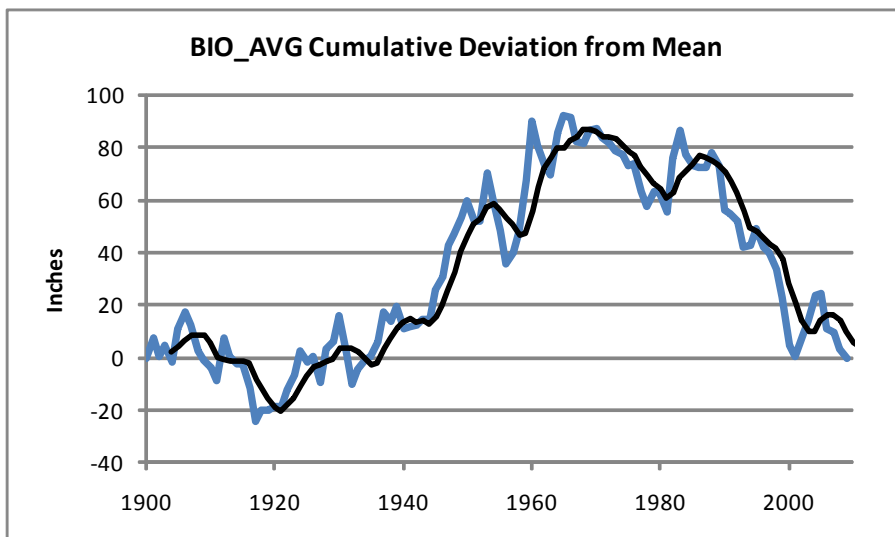
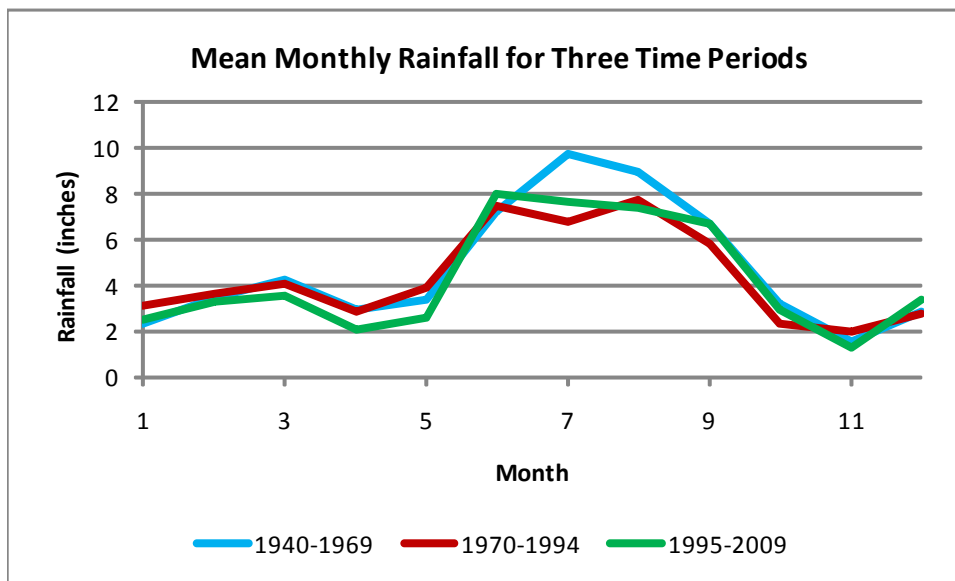


Figure 3. Average multi-year rainfall totals for the driest and wettest periods (table) and cumulative annual deviation from period of record rainfall (blue line) for the BIO_AVG data set. The black line is the 5-year moving average of the cumulative deviations.

Our final figure for each site summarizes variation in rainfall on a monthly basis for the three AMO periods we evaluated. Figure 4 illustrates results for the BIO_AVG site, and includes a plot and summary table of mean monthly rainfall totals. Blue shading in the table indicates the

wettest of each monthly total for three AMO periods, and tan shading denotes the driest month among the three periods.

BIO_AVG



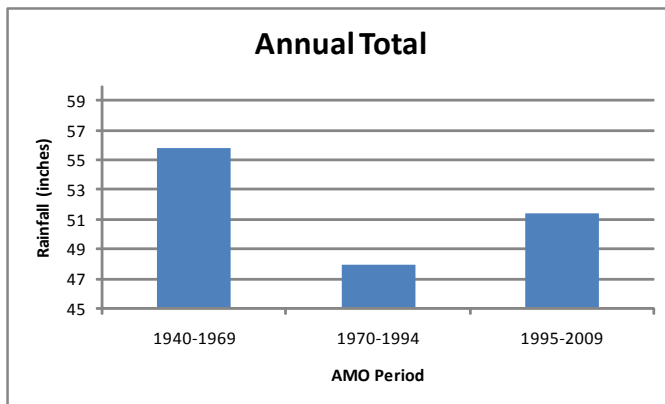
Month	1940-1969	1970-1994	1995-2009
1	2.34	3.09	2.54
2	3.50	3.67	3.27
3	4.22	4.06	3.59
4	2.92	2.84	2.07
5	3.41	3.86	2.56
6	7.19	7.45	8.01
7	9.71	6.79	7.66
8	8.94	7.72	7.34
9	6.72	5.79	6.71
10	3.21	2.36	2.96
11	1.54	2.00	1.27
12	2.81	2.78	3.38
Total	56.51	52.41	51.35

Figure 4. Mean monthly rainfall totals for three AMO periods (line chart and table) for the BIO_AVG data set.

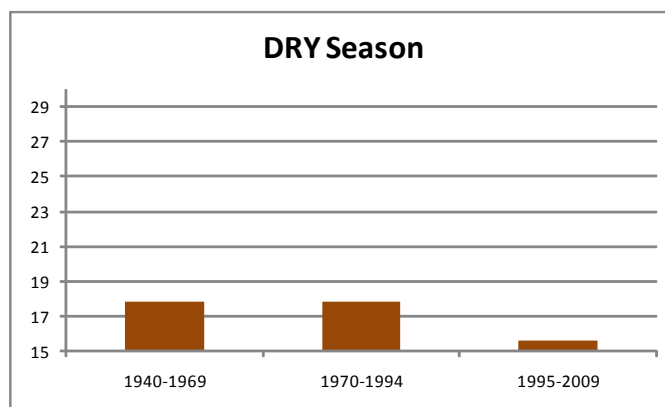
Data

What follows is a series of figures (and tables) for rainfall sites shown in Figure 1. Information for each site is formatted as described above. Microsoft Excel spreadsheets used to generate the figures/tables for each site are available on request.

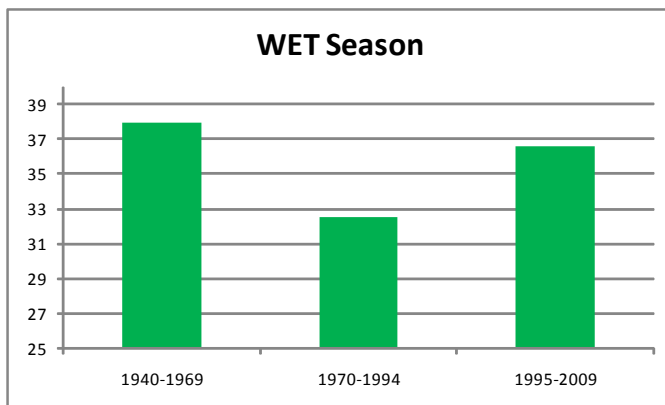
ARCADIA NWS RAINFALL



Annual Total (inches)	
1940-1969	55.8
1970-1994	47.9
1995-2009	51.4
POR	50.8



Dry Season Total (inches)		X% of Annual Totals
1940-1969	17.9	
1970-1994	17.8	35%
1995-2009	15.6	30%
POR	16.0	33%

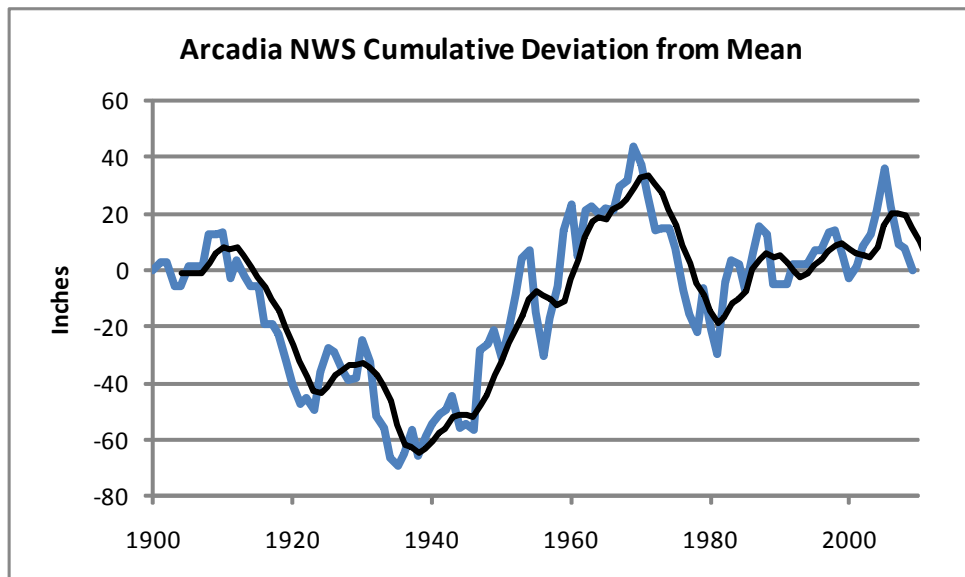


Wet Season Total (inches)		X% of Annual Totals
1940-1969	38.0	
1970-1994	32.6	65%
1995-2009	36.6	70%
POR	35.2	67%

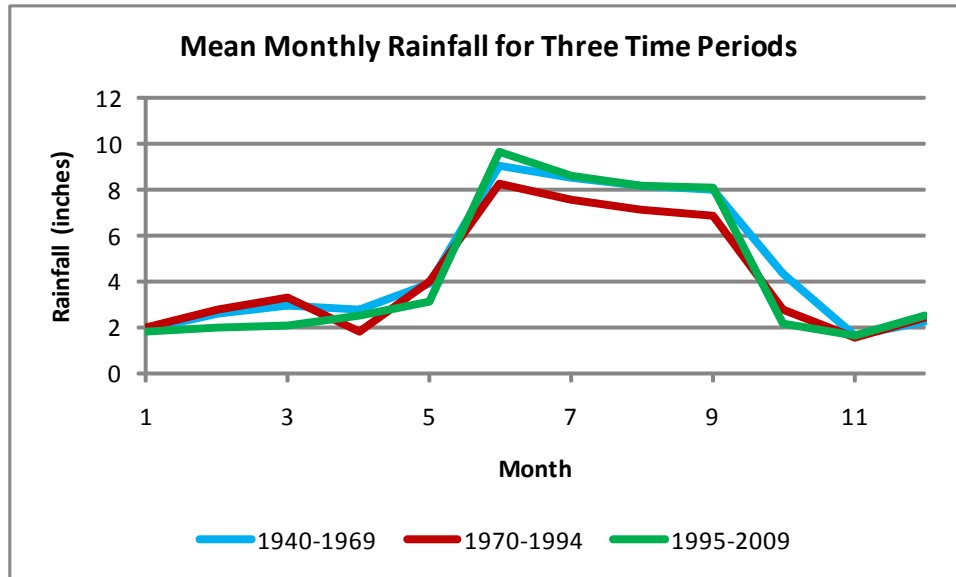
	Mean	Year Ending
Driest 2 yr mean annual	33.77	1956
Driest 3 yr mean annual	40.90	1956
Driest 4 yr mean annual	42.01	1934
Driest 5 yr mean annual	43.54	1935
Driest 10 year mean annual	46.52	1980

Wettest 2 yr mean annual	69.01	1982
Wettest 3 yr mean annual	67.32	1959
Wettest 4 yr mean annual	65.81	1960
Wettest 5 yr mean annual	60.16	2005
Wettest 10 year mean annual	58.61	1954

Period of Record is from 1901 to 2009

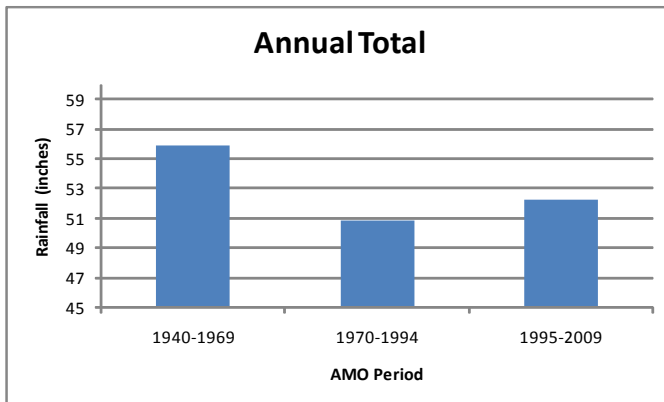


Arcadia NWS Rainfall

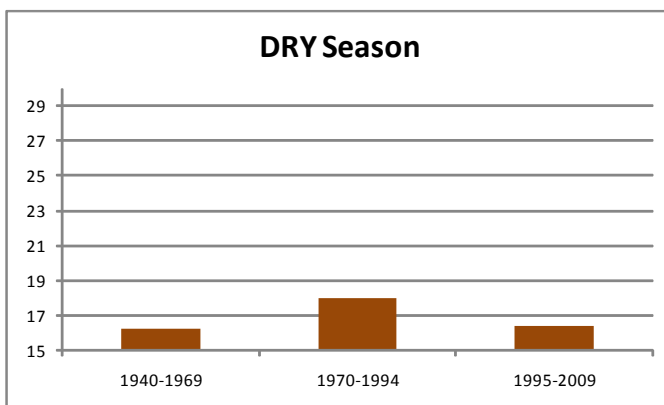


Month	1940-1969	1970-1994	1995-2009
1	1.89	2.01	1.84
2	2.56	2.76	2.00
3	2.95	3.28	2.07
4	2.80	1.83	2.52
5	3.87	4.01	3.10
6	9.05	8.24	9.60
7	8.46	7.54	8.63
8	8.12	7.11	8.17
9	7.97	6.89	8.04
10	4.35	2.78	2.19
11	1.62	1.58	1.64
12	2.28	2.44	2.47
Total	55.92	50.49	52.26

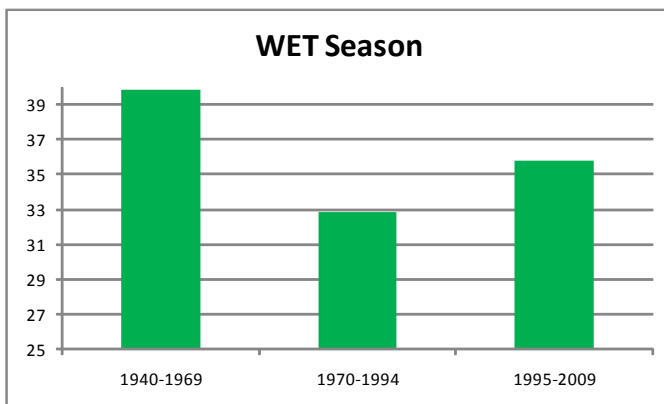
ARCHBOLD BIOLOGICAL STATION NWS



Annual Total (inches)	
1940-1969	55.9
1970-1994	50.9
1995-2009	52.2
POR	53.3



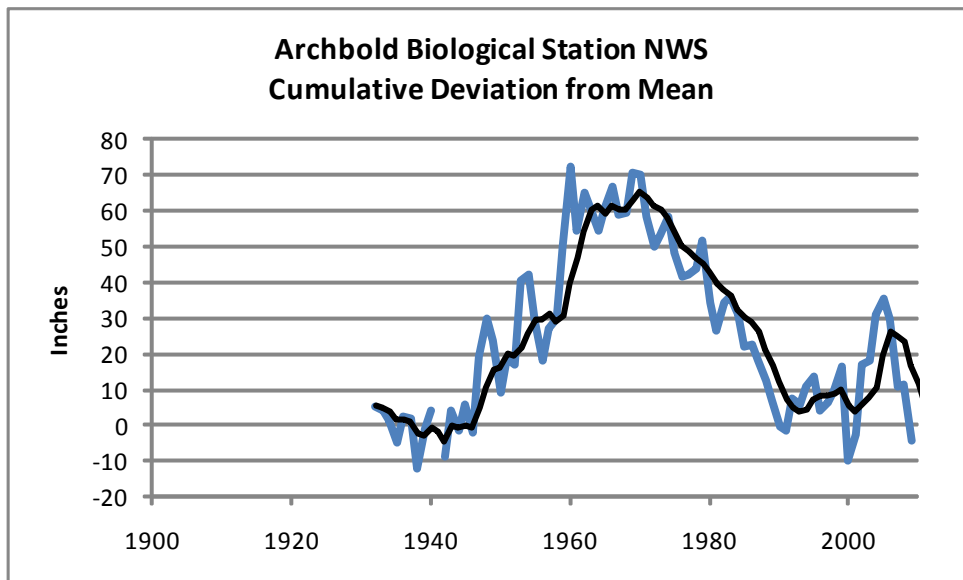
Dry Season Total (inches)		X% of Annual Totals
1940-1969	16.3	29%
1970-1994	18.0	35%
1995-2009	16.4	31%
POR	17.0	32%



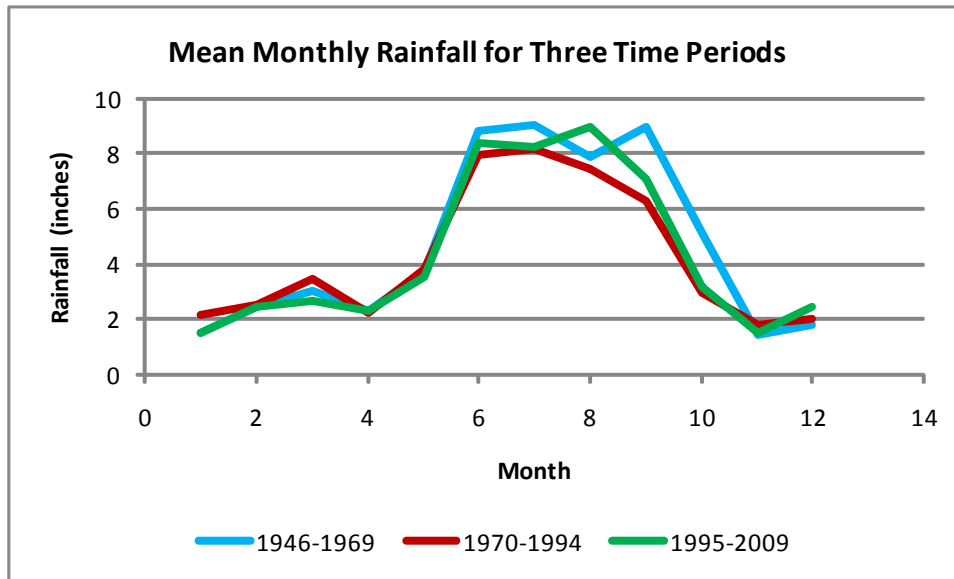
Wet Season Total (inches)		X% of Annual Totals
1940-1969	39.9	71%
1970-1994	32.9	65%
1995-2009	35.8	69%
POR	36.3	68%

	Mean	Year Ending
Driest 2 yr mean annual	40.65	1981
Driest 3 yr mean annual	41.92	2009
Driest 4 yr mean annual	43.34	2009
Driest 5 yr mean annual	46.19	2009
Driest 10 year mean annual	48.82	1989

Wettest 2 yr mean annual	74.38	1960
Wettest 3 yr mean annual	68.31	1960
Wettest 4 yr mean annual	66.82	1960
Wettest 5 yr mean annual	62.26	2005
Wettest 10 year mean annual	59.55	1960

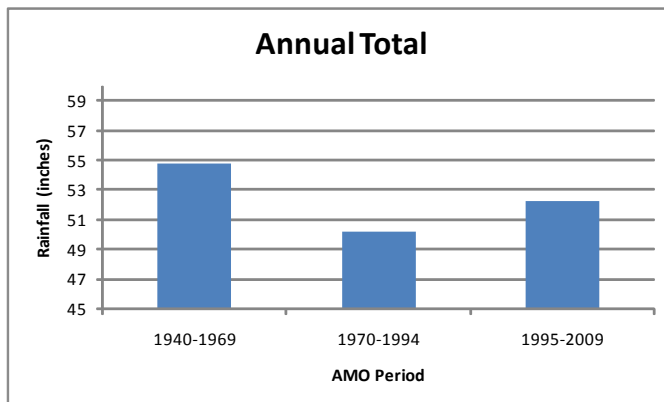


ARCHBOLD BIOLOGICAL STATION NWS

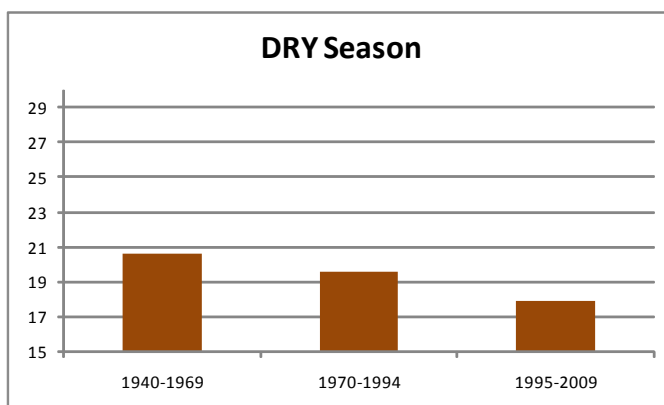


Month	1946-1969	1970-1994	1995-2009
1	1.52	2.14	1.48
2	2.44	2.55	2.46
3	3.03	3.45	2.69
4	2.28	2.21	2.31
5	3.78	3.85	3.55
6	8.80	7.96	8.39
7	9.06	8.20	8.25
8	7.91	7.47	8.94
9	9.00	6.32	7.07
10	5.11	2.95	3.17
11	1.45	1.77	1.52
12	1.79	2.04	2.43
Total	56.16	50.90	52.26

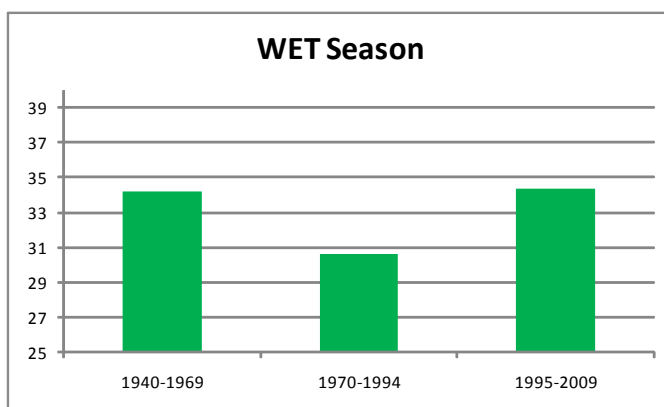
BARTOW NWS



Annual Total (inches)	
1940-1969	54.8
1970-1994	50.2
1995-2009	52.3
POR	53.7



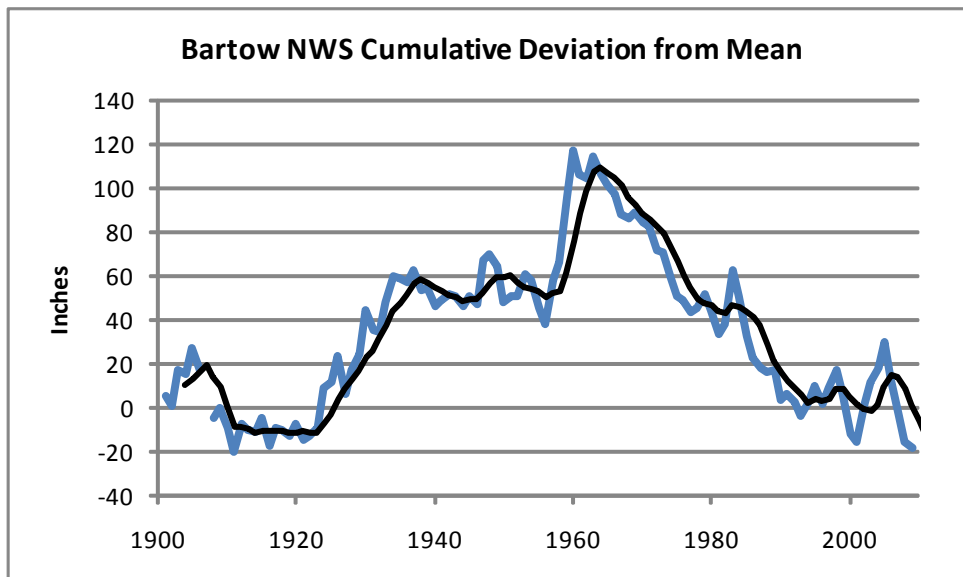
Dry Season Total (inches)		% of Annual Totals
1940-1969	20.6	37%
1970-1994	19.6	39%
1995-2009	17.9	34%
POR	19.6	36%



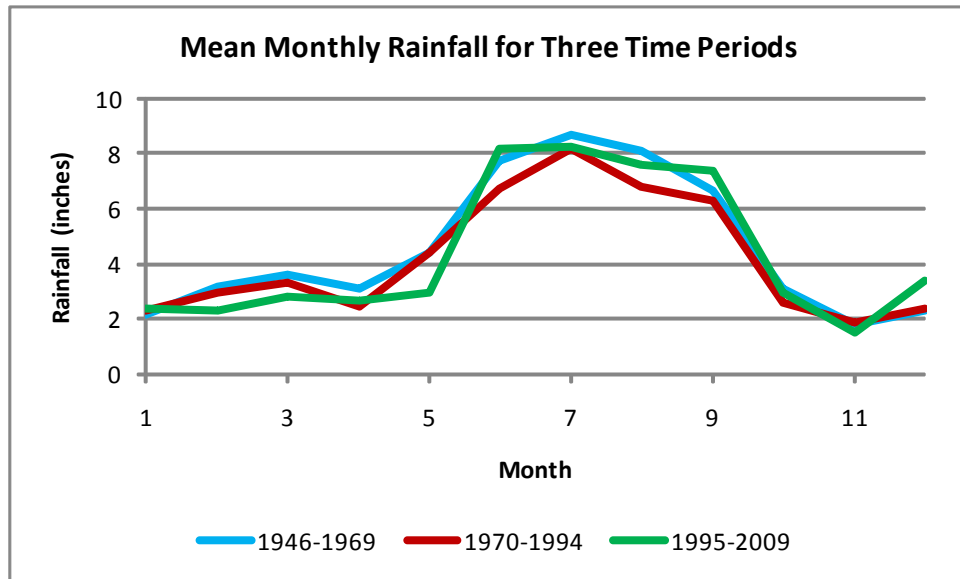
Wet Season Total (inches)		% of Annual Totals
1940-1969	34.2	63%
1970-1994	30.6	61%
1995-2009	34.4	66%
POR	34.0	64%

	Mean	Year Ending
Driest 2 yr mean annual	37.31	2007
Driest 3 yr mean annual	38.39	2008
Driest 4 yr mean annual	41.74	2009
Driest 5 yr mean annual	44.35	1988
Driest 10 year mean annual	47.04	1993

Wettest 2 yr mean annual	78.65	1960
Wettest 3 yr mean annual	73.04	1960
Wettest 4 yr mean annual	73.21	1960
Wettest 5 yr mean annual	67.83	1960
Wettest 10 year mean annual	60.54	1960

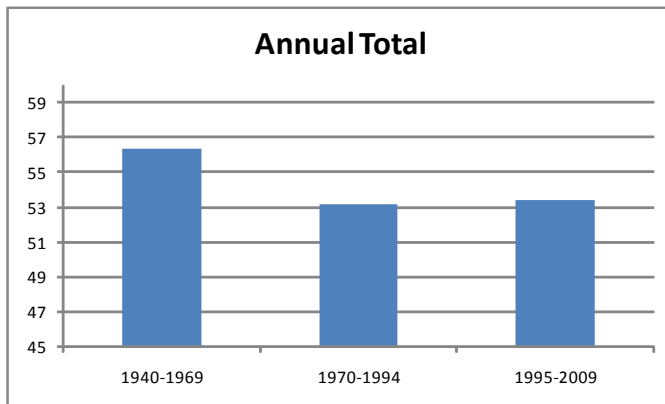


BARTOW NWS

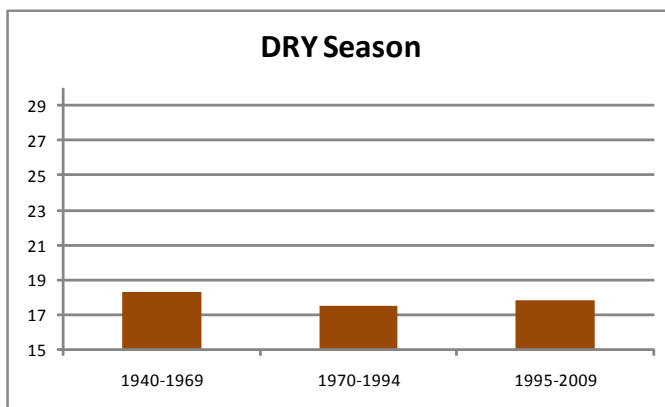


Month	1946-1969	1970-1994	1995-2009
1	2.20	2.30	2.41
2	3.21	2.99	2.30
3	3.62	3.34	2.82
4	3.10	2.43	2.64
5	4.43	4.39	2.98
6	7.74	6.75	8.18
7	8.65	8.18	8.25
8	8.09	6.78	7.57
9	6.64	6.29	7.37
10	3.07	2.62	2.99
11	1.80	1.87	1.54
12	2.33	2.37	3.38
Total	54.88	50.31	52.42

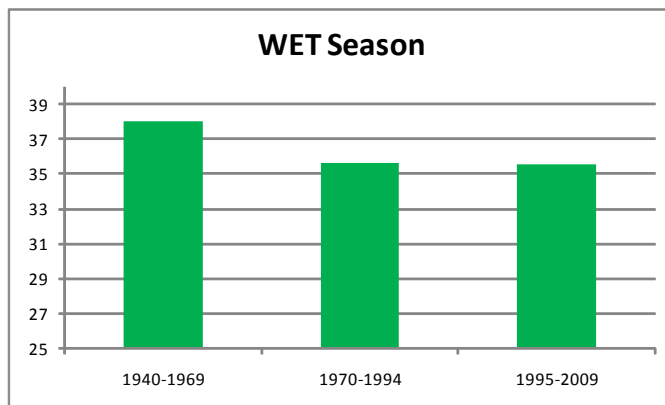
BRADENTON 5 ESE NWS



	Annual Total (inches)
1940-1969	56.3
1970-1994	53.1
1995-2009	53.4
POR	54.5



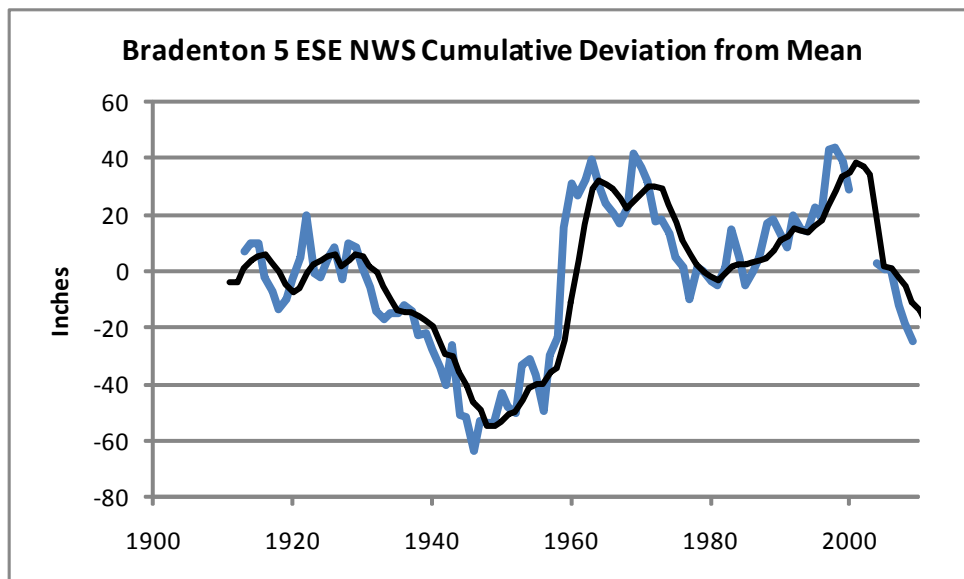
	Dry Season Total (inches)	X% of Annual Totals
1940-1969	18.3	32%
1970-1994	17.5	33%
1995-2009	17.8	32%
POR	17.9	33%



	Wet Season Total (inches)	X% of Annual Totals
1940-1969	38.0	68%
1970-1994	35.6	67%
1995-2009	35.5	68%
POR	36.3	67%

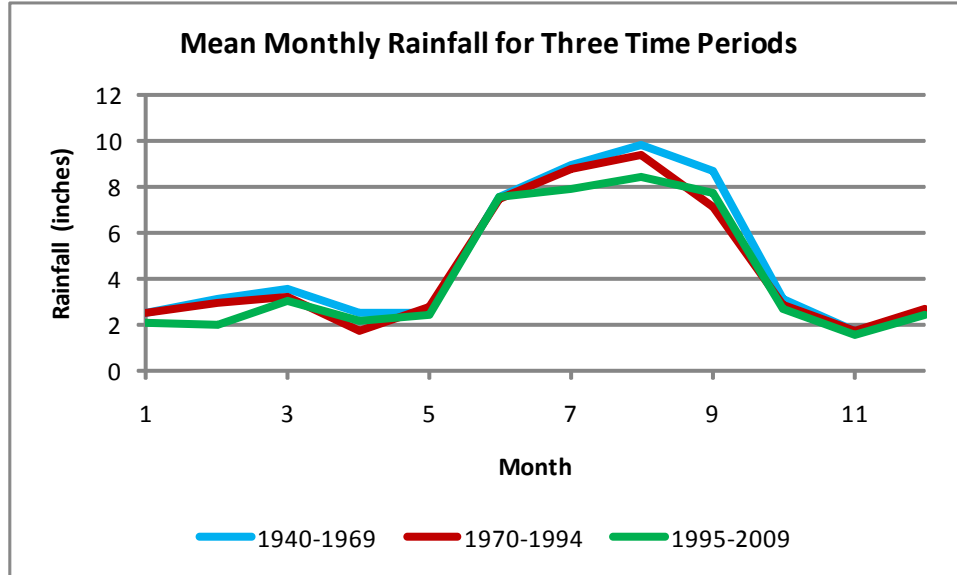
	Mean	Year Ending
Driest 2 yr mean annual	41.67	1945
Driest 3 yr mean annual	41.79	1946
Driest 4 yr mean annual	47.14	1977
Driest 5 yr mean annual	47.91	1975
Driest 10 year mean annual	49.08	1946

Wettest 2 yr mean annual	81.38	1960
Wettest 3 yr mean annual	75.87	1959
Wettest 4 yr mean annual	74.27	1960
Wettest 5 yr mean annual	69.42	1961
Wettest 10 year mean annual	62.53	1962



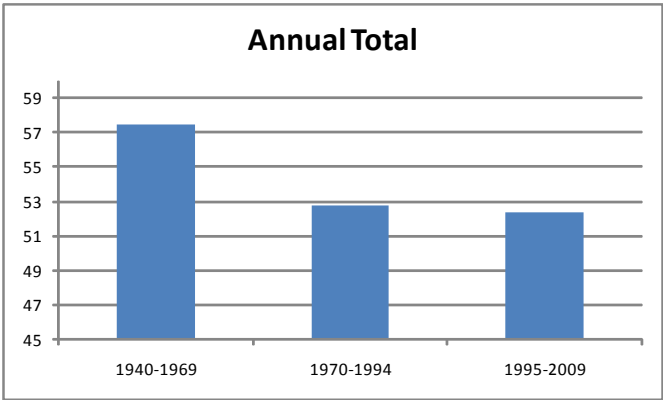
* years 2001-2003 deleted to high number of missing daily observations

BRADENTON 5 ESE NWS

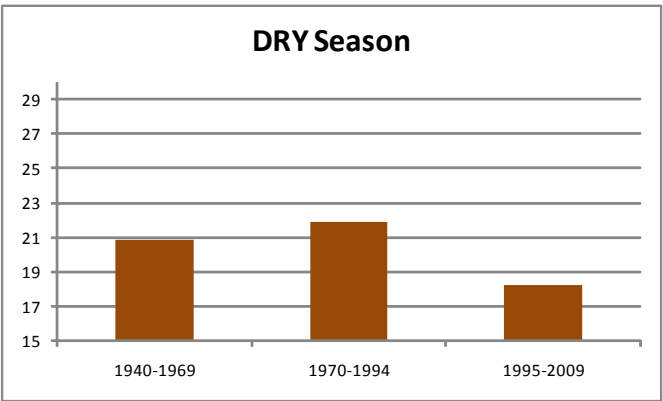


Month	1940-1969	1970-1994	1995-2009
1	2.52	2.53	2.06
2	3.11	2.97	1.96
3	3.52	3.22	3.02
4	2.53	1.74	2.20
5	2.50	2.78	2.44
6	7.55	7.43	7.58
7	8.92	8.76	7.92
8	9.79	9.38	8.45
9	8.64	7.15	7.73
10	3.11	2.89	2.64
11	1.72	1.69	1.56
12	2.50	2.64	2.44
Total	56.40	53.17	49.99

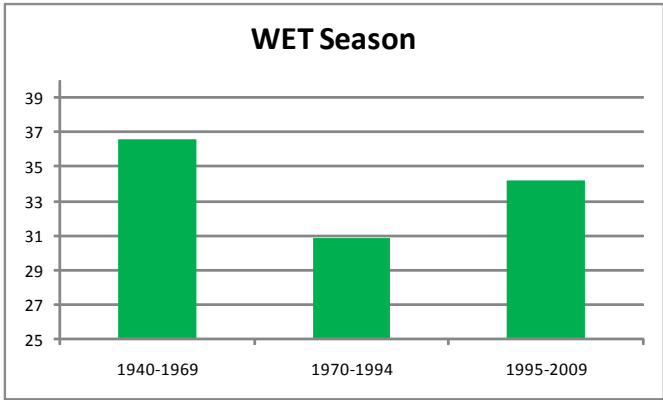
BROOKSVILLE CHINSEGUT HILL NWS



	Annual Total (inches)
1940-1969	57.5
1970-1994	52.8
1995-2009	52.4
POR	54.7



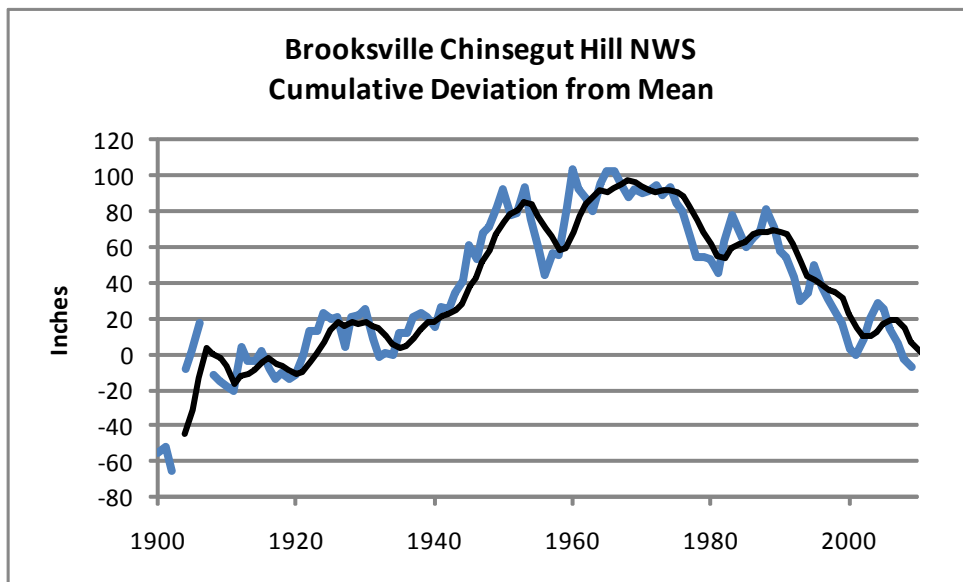
	Dry Season Total (inches)	% of Annual Totals
1940-1969	20.9	37%
1970-1994	21.9	41%
1995-2009	18.2	35%
POR	20.3	38%



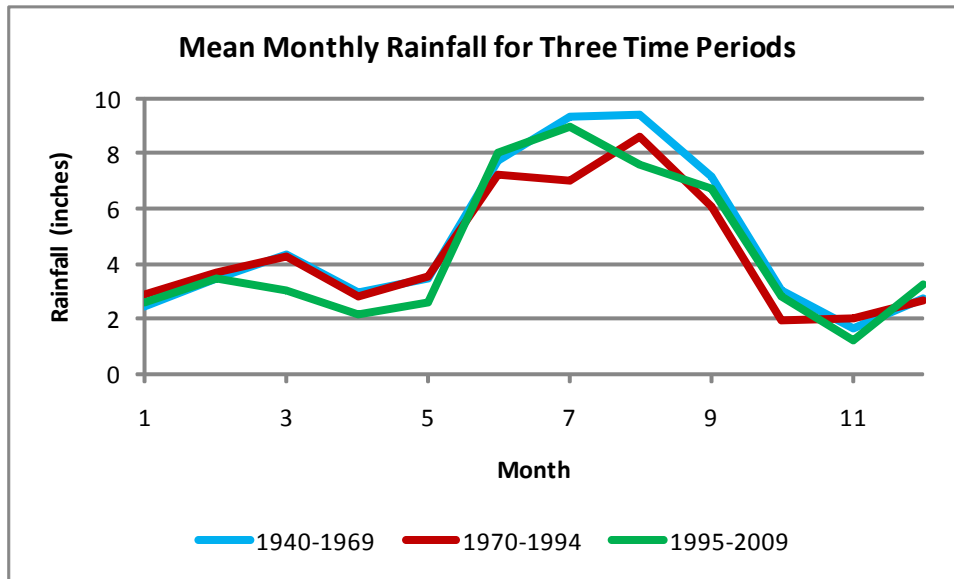
	Wet Season Total (inches)	% of Annual Totals
1940-1969	36.6	63%
1970-1994	30.9	59%
1995-2009	34.2	65%
POR	34.5	62%

	Mean	Year Ending
Driest 2 yr mean annual	37.77	1955
Driest 3 yr mean annual	38.88	1956
Driest 4 yr mean annual	44.62	1993
Driest 5 yr mean annual	44.67	1993
Driest 10 year mean annual	49.26	1998

Wettest 2 yr mean annual	78.83	1959
Wettest 3 yr mean annual	70.59	1959
Wettest 4 yr mean annual	69.74	1960
Wettest 5 yr mean annual	64.60	1961
Wettest 10 year mean annual	62.85	1950

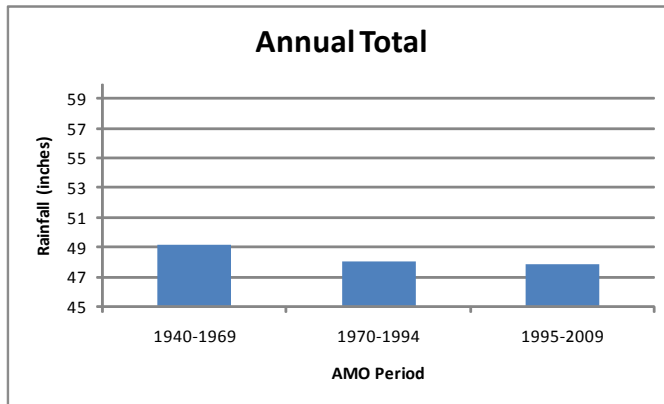


BROOKSVILLE CHINSEGUT HILL NWS

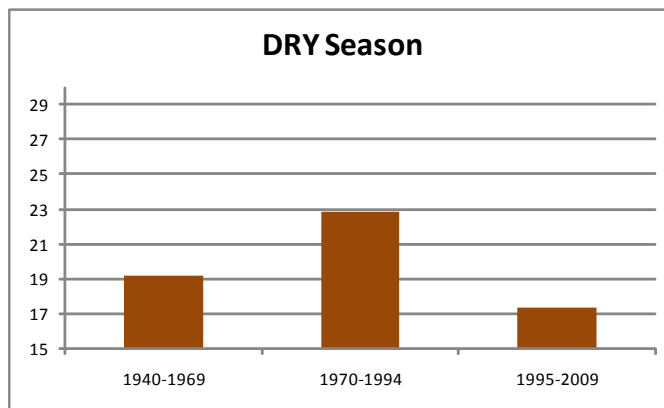


Month	1940-1969	1970-1994	1995-2009
1	2.43	2.92	2.56
2	3.49	3.65	3.47
3	4.37	4.25	3.04
4	2.92	2.83	2.19
5	3.44	3.55	2.63
6	7.72	7.24	8.06
7	9.31	7.02	8.97
8	9.41	8.61	7.61
9	7.14	6.07	6.70
10	3.02	1.96	2.82
11	1.69	2.03	1.25
12	2.73	2.68	3.22
Total	57.66	52.81	52.53

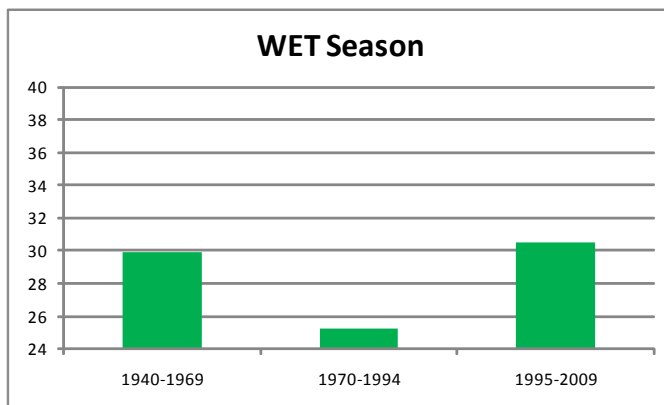
BURRELL LOCK NWS



Annual Total (inches)	
1940-1969	49.1
1970-1994	48.0
1995-2009	47.9
POR	48.2



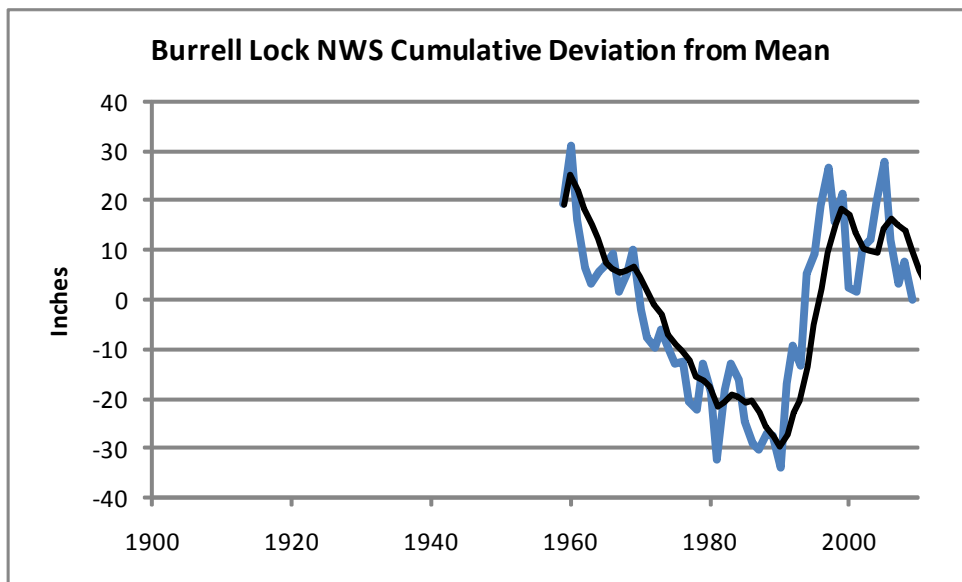
Dry Season Total (inches)		% of Annual Totals
1940-1969	19.2	39%
1970-1994	22.8	47%
1995-2009	17.4	36%
POR	20.4	42%



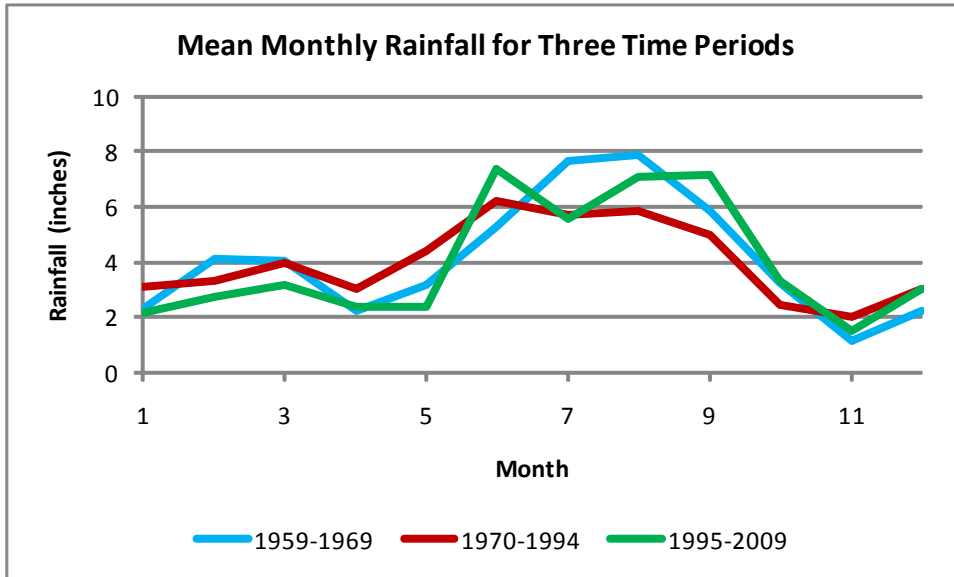
Wet Season Total (inches)		% of Annual Totals
1940-1969	29.9	61%
1970-1994	25.2	53%
1995-2009	30.5	64%
POR	27.8	58%

	Mean	Year Ending
Driest 2 yr mean annual	35.89	1962
Driest 3 yr mean annual	38.95	1963
Driest 4 yr mean annual	41.26	2009
Driest 5 yr mean annual	43.39	1965
Driest 10 year mean annual	44.93	1970

Wettest 2 yr mean annual	63.76	1959
Wettest 3 yr mean annual	58.97	1996
Wettest 4 yr mean annual	58.24	1994
Wettest 5 yr mean annual	56.85	1995
Wettest 10 year mean annual	53.92	1997

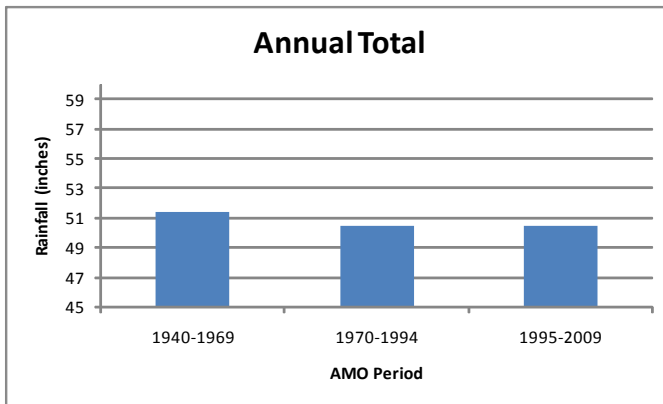


BURRELL LOCK NWS

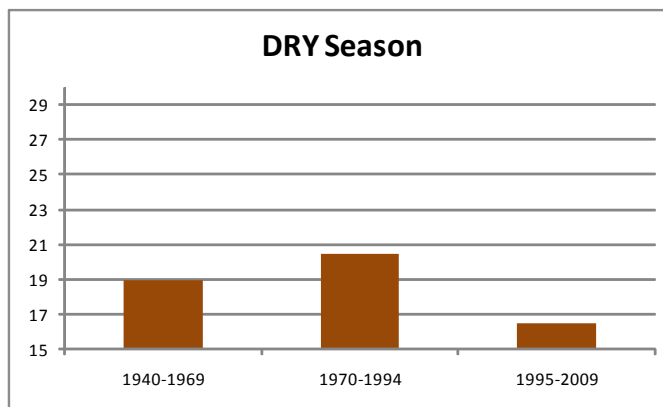


Month	1959-1969	1970-1994	1995-2009
1	2.32	3.11	2.18
2	4.12	3.34	2.70
3	4.06	4.01	3.19
4	2.22	3.02	2.41
5	3.15	4.39	2.37
6	5.31	6.20	7.39
7	7.67	5.70	5.55
8	7.89	5.85	7.06
9	5.85	5.01	7.15
10	3.22	2.44	3.33
11	1.13	2.00	1.50
12	2.26	3.03	3.05
Total	49.20	48.10	47.88

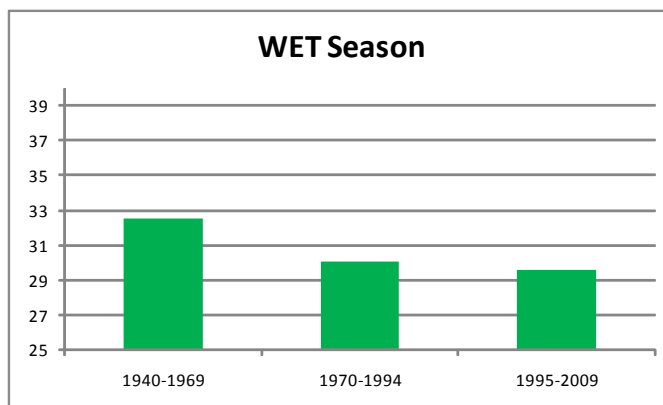
CLERMONT 9 S NWS



	Annual Total (inches)
1940-1969	51.4
1970-1994	50.5
1995-2009	50.5
POR	50.5



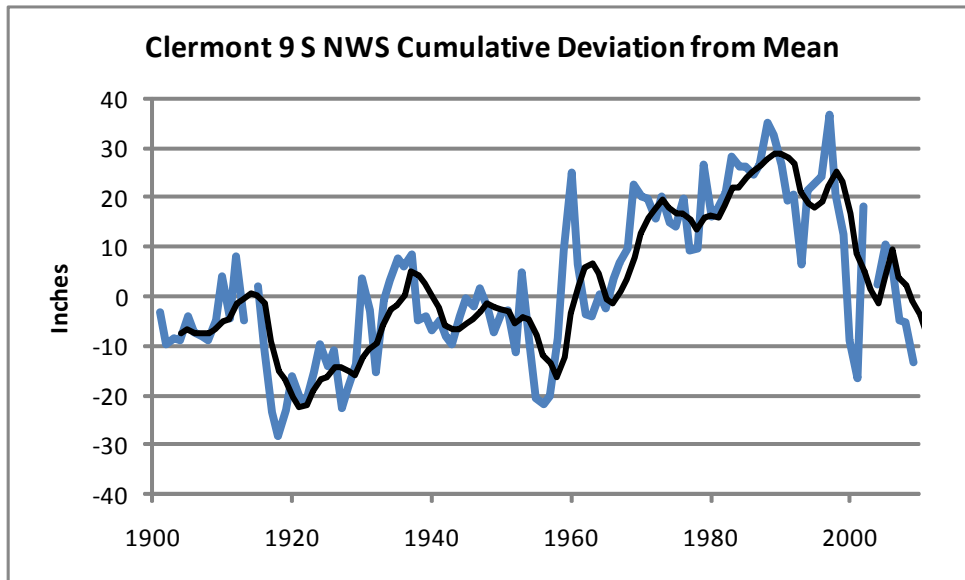
	Dry Season Total (inches)	% of Annual Totals
1940-1969	18.9	37%
1970-1994	20.4	41%
1995-2009	16.5	33%
POR	18.6	37%



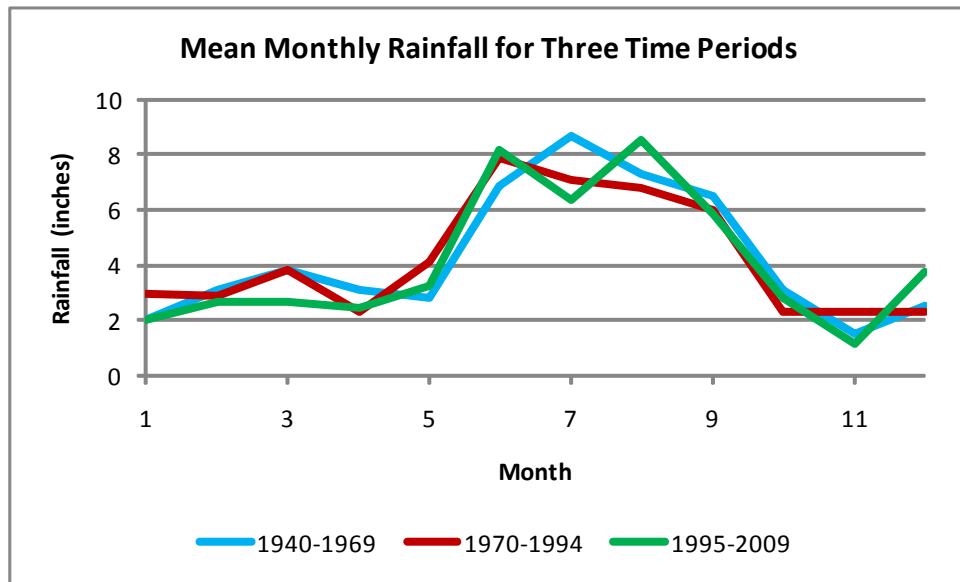
	Wet Season Total (inches)	% of Annual Totals
1940-1969	32.5	63%
1970-1994	30.1	59%
1995-2009	29.6	60%
POR	31.0	61%

	Mean	Year Ending
Driest 2 yr mean annual	35.79	2000
Driest 3 yr mean annual	35.35	2001
Driest 4 yr mean annual	37.29	2001
Driest 5 yr mean annual	42.45	2001
Driest 10 year mean annual	46.98	2001

Wettest 2 yr mean annual	67.18	1960
Wettest 3 yr mean annual	65.57	1960
Wettest 4 yr mean annual	62.19	1960
Wettest 5 yr mean annual	59.59	1960
Wettest 10 year mean annual	53.68	1960

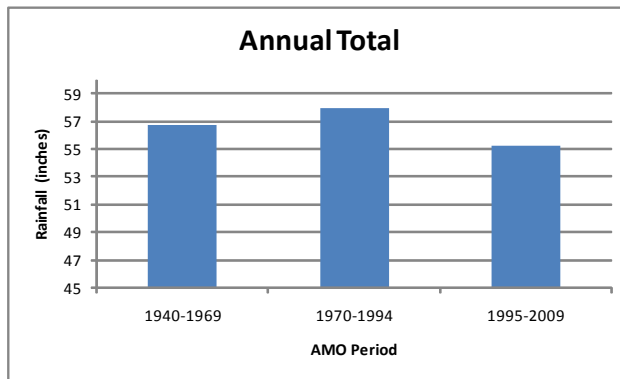


CLERMONT 9 S NWS

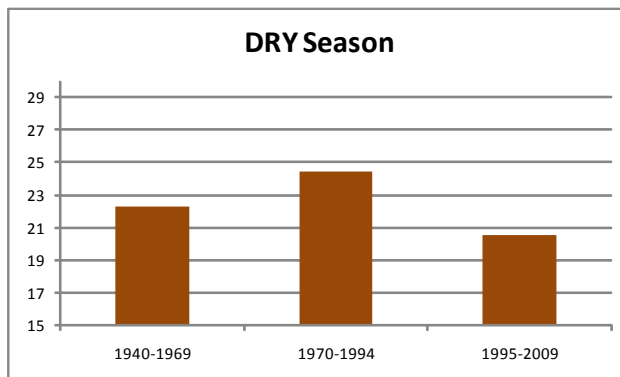


Month	1940-1969	1970-1994	1995-2009
1	2.04	2.93	2.03
2	3.10	2.90	2.66
3	3.85	3.85	2.65
4	3.12	2.28	2.44
5	2.84	4.10	3.22
6	6.90	7.90	8.17
7	8.69	7.07	6.35
8	7.33	6.78	8.54
9	6.53	6.02	5.87
10	3.08	2.30	2.78
11	1.53	2.28	1.17
12	2.54	2.29	3.74
Total	51.54	50.70	49.60

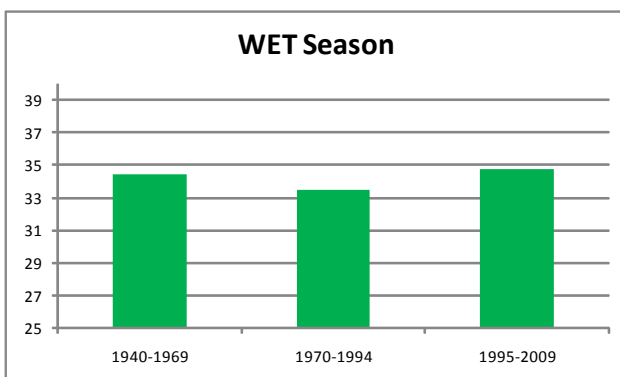
CROSS CITY 1 E NWS



	Annual Total (inches)
1940-1969	56.8
1970-1994	57.9
1995-2009	55.2
POR	57.0



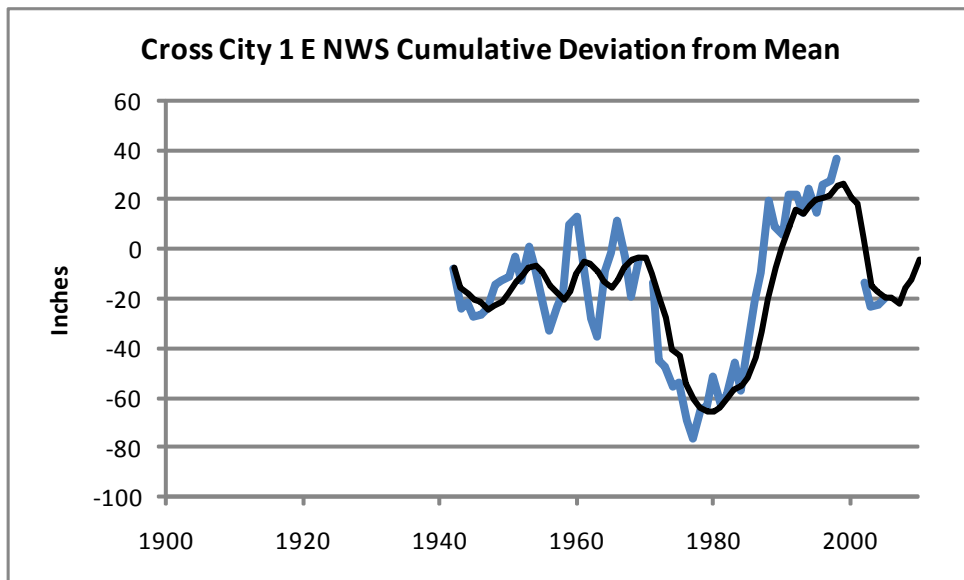
	Dry Season Total (inches)	X% of Annual Totals
1940-1969	22.3	39%
1970-1994	24.5	43%
1995-2009	20.5	37%
POR	22.9	40%



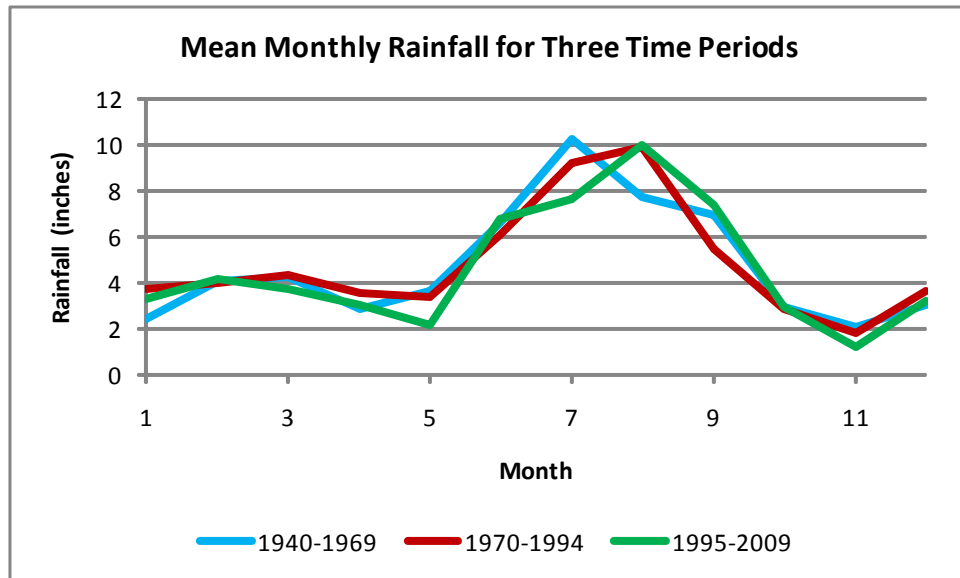
	Wet Season Total (inches)	X% of Annual Totals
1940-1969	34.4	61%
1970-1994	33.5	57%
1995-2009	34.7	63%
POR	34.1	60%

	Mean	Year Ending
Driest 2 yr mean annual	34.41	1972
Driest 3 yr mean annual	40.82	1963
Driest 4 yr mean annual	43.10	1974
Driest 5 yr mean annual	45.70	1975
Driest 10 year mean annual	47.53	1976

Wettest 2 yr mean annual	76.91	1988
Wettest 3 yr mean annual	75.27	1988
Wettest 4 yr mean annual	75.87	1988
Wettest 5 yr mean annual	70.00	1987
Wettest 10 year mean annual	65.37	1991

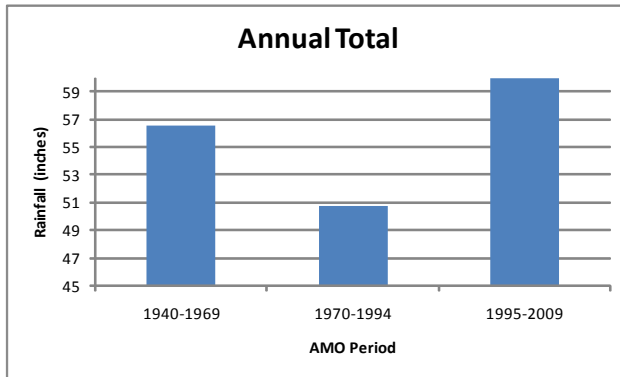


CROSS CITY 1 E NWS

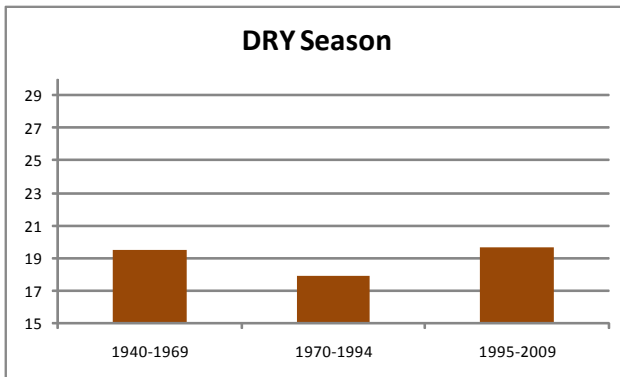


Month	1940-1969	1970-1994	1995-2009
1	2.45	3.75	3.27
2	4.11	3.94	4.19
3	4.22	4.35	3.73
4	2.85	3.57	3.01
5	3.65	3.35	2.12
6	6.58	6.09	6.76
7	10.27	9.21	7.68
8	7.71	9.86	9.98
9	6.97	5.47	7.39
10	2.90	2.83	2.91
11	2.04	1.85	1.18
12	3.06	3.65	3.24
Total	56.81	57.92	55.47

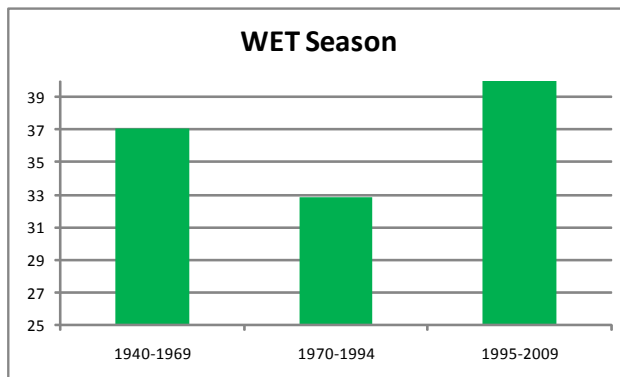
FORT GREEN 12 WSW NWS



	Annual Total (inches)
1940-1969	56.5
1970-1994	50.8
1995-2009	60.7
POR	55.0



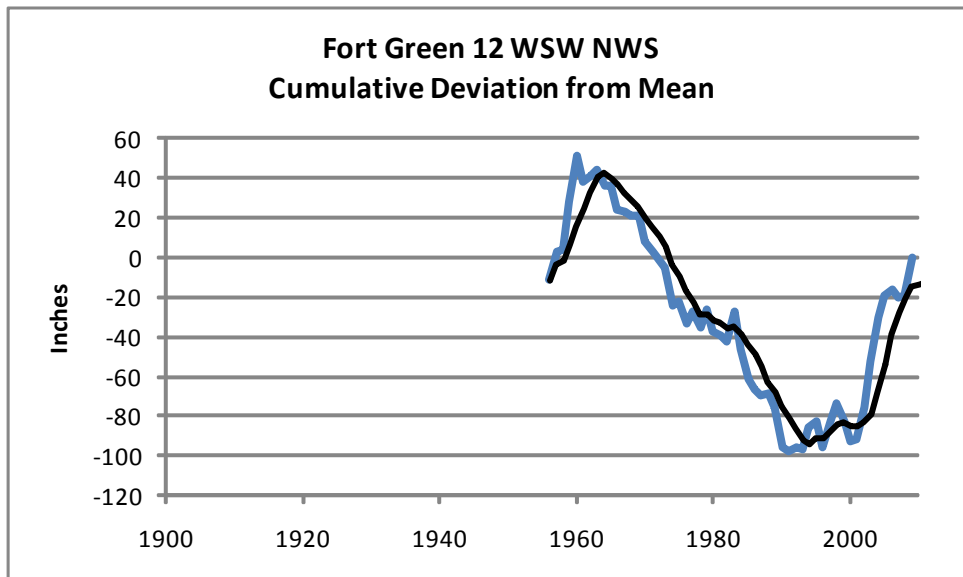
	Dry Season Total (inches)	X% of Annual Totals
1940-1969	19.5	34%
1970-1994	17.9	35%
1995-2009	19.6	32%
POR	18.8	34%



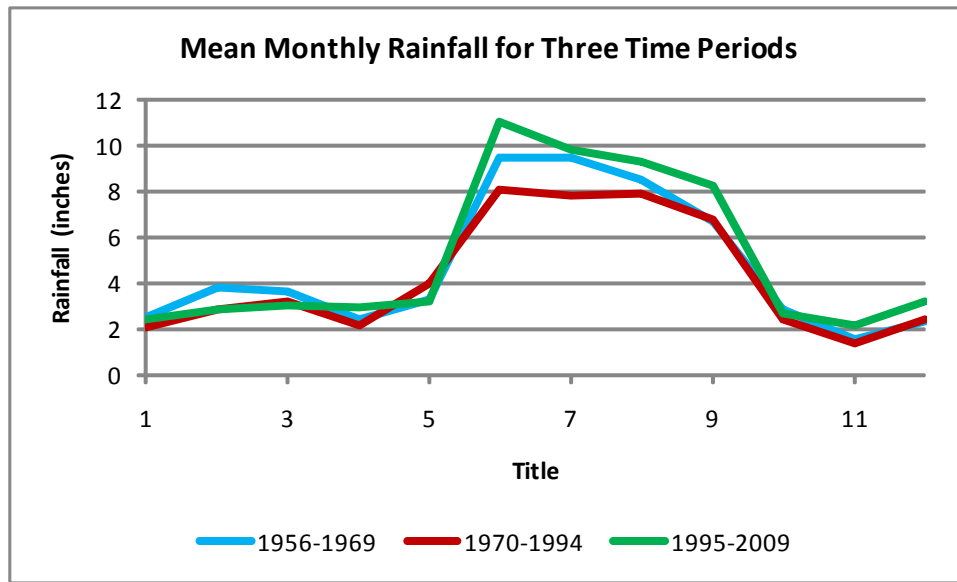
	Wet Season Total (inches)	X% of Annual Totals
1940-1969	37.0	66%
1970-1994	32.9	65%
1995-2009	41.1	68%
POR	36.2	66%

	Mean	Year Ending
Driest 2 yr mean annual	38.00	1985
Driest 3 yr mean annual	41.94	1986
Driest 4 yr mean annual	44.43	1987
Driest 5 yr mean annual	46.05	1974
Driest 10 year mean annual	48.14	1993

Wettest 2 yr mean annual	78.83	1960
Wettest 3 yr mean annual	75.71	2004
Wettest 4 yr mean annual	73.31	2005
Wettest 5 yr mean annual	70.25	2006
Wettest 10 year mean annual	63.33	2009

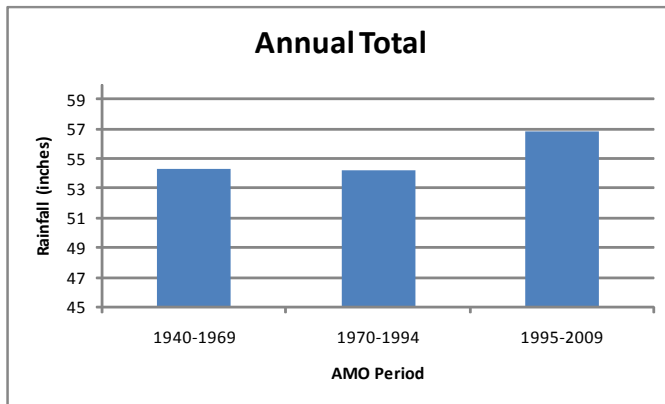


FORT GREEN 12 WSW NWS

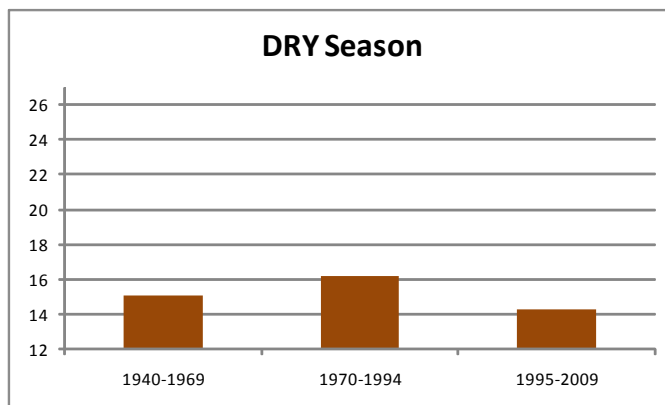


Month	1956-1969	1970-1994	1995-2009
1	2.51	2.04	2.45
2	3.80	2.87	2.86
3	3.65	3.19	3.06
4	2.46	2.13	2.98
5	3.26	3.97	3.18
6	9.45	8.08	11.07
7	9.49	7.79	9.80
8	8.51	7.90	9.31
9	6.72	6.74	8.24
10	2.87	2.38	2.68
11	1.58	1.38	2.16
12	2.31	2.46	3.22
Total	56.60	50.92	61.01

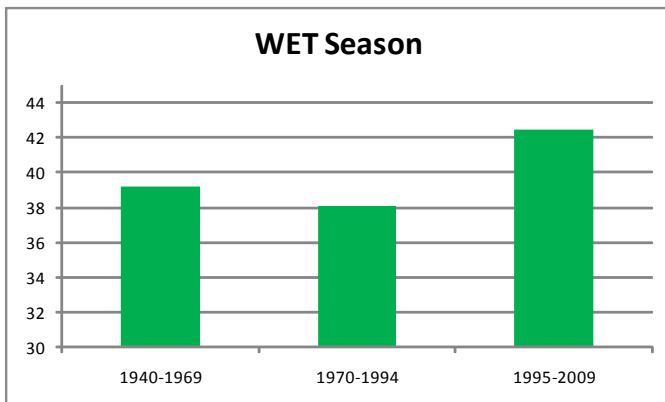
FORT MYERS PAGE FIELD AIRPORT NWS



	Annual Total (inches)
1940-1969	54.3
1970-1994	54.2
1995-2009	56.8
POR	54.1



	Dry Season Total (inches)	% of Annual Totals
1940-1969	15.1	28%
1970-1994	16.2	29%
1995-2009	14.3	25%
POR	15.0	28%

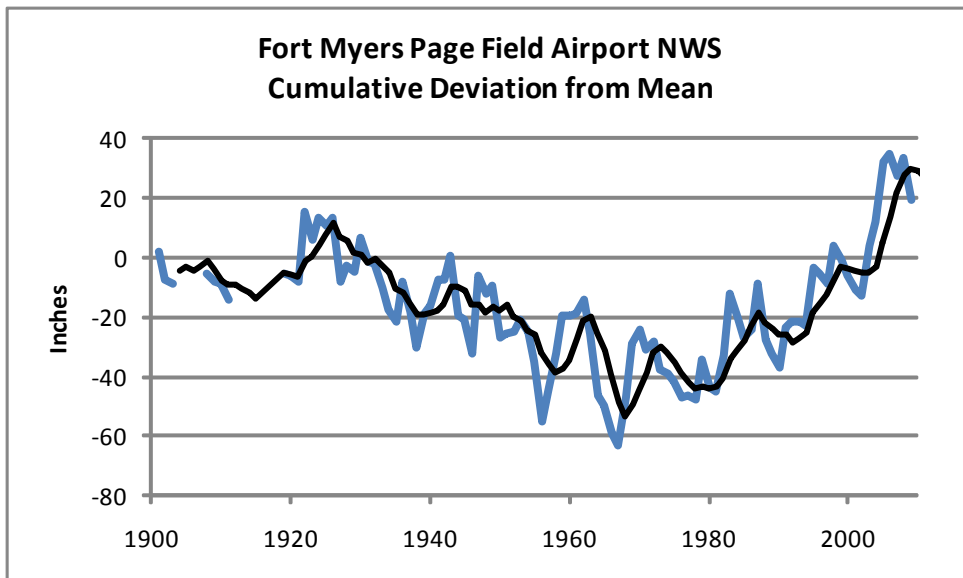


	Wet Season Total (inches)	% of Annual Totals
1940-1969	39.2	72%
1970-1994	38.1	71%
1995-2009	42.5	75%
POR	39.1	72%

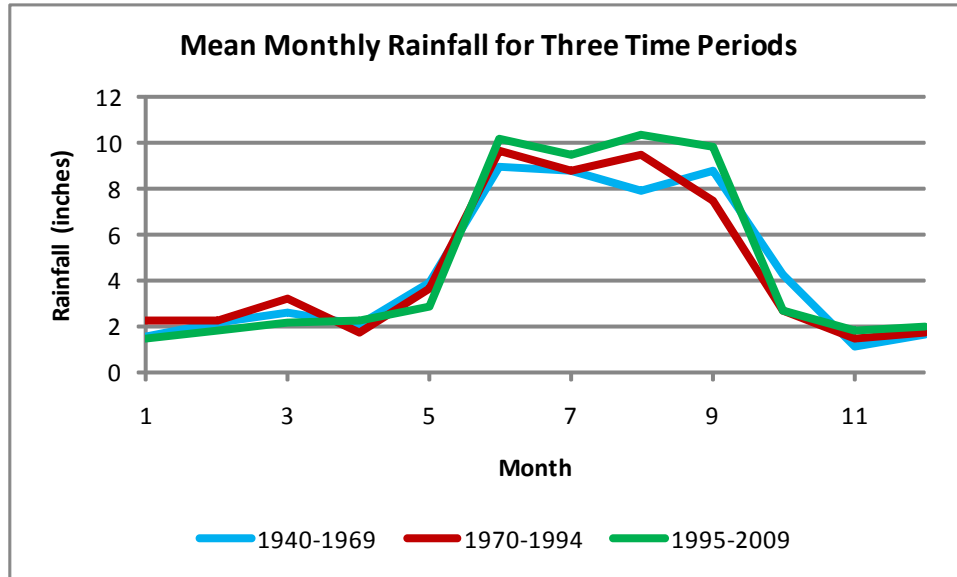
	Mean	Year Ending
Driest 2 yr mean annual	37.87	1964
Driest 3 yr mean annual	42.19	1965
Driest 4 yr mean annual	42.89	1966
Driest 5 yr mean annual	44.19	1967
Driest 10 year mean annual	50.09	1957

Wettest 2 yr mean annual	71.12	1969
Wettest 3 yr mean annual	68.97	2005
Wettest 4 yr mean annual	65.80	2006
Wettest 5 yr mean annual	63.05	2006
Wettest 10 year mean annual	58.00	2006

Complete record since 1919

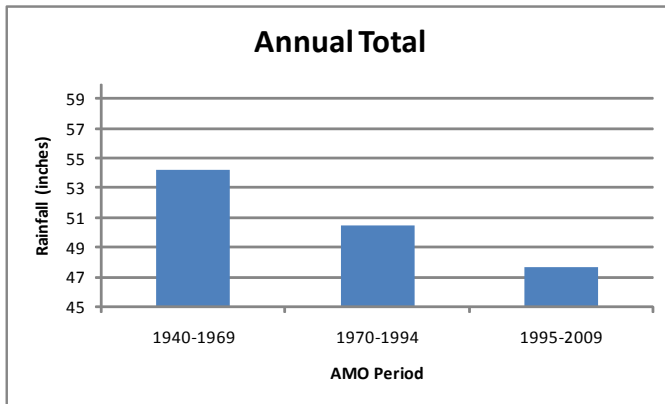


FORT MYERS PAGE FIELD AIRPORT NWS

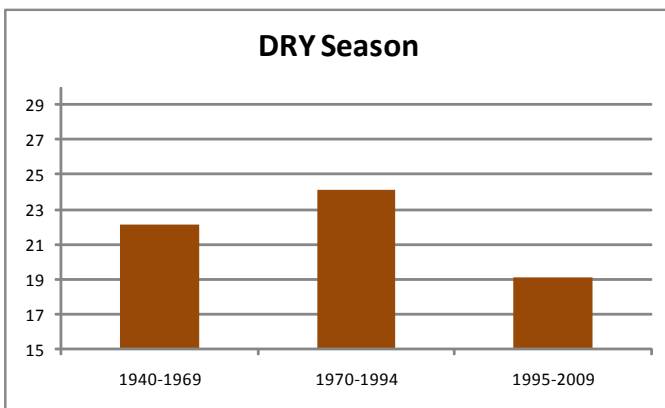


Month	1940-1969	1970-1994	1995-2009
1	1.51	2.27	1.48
2	2.18	2.28	1.82
3	2.58	3.21	2.12
4	2.10	1.74	2.29
5	3.86	3.60	2.87
6	8.95	9.67	10.17
7	8.80	8.78	9.48
8	7.87	9.51	10.30
9	8.78	7.45	9.85
10	4.29	2.66	2.67
11	1.14	1.42	1.83
12	1.67	1.71	2.01
Total	53.73	54.32	56.89

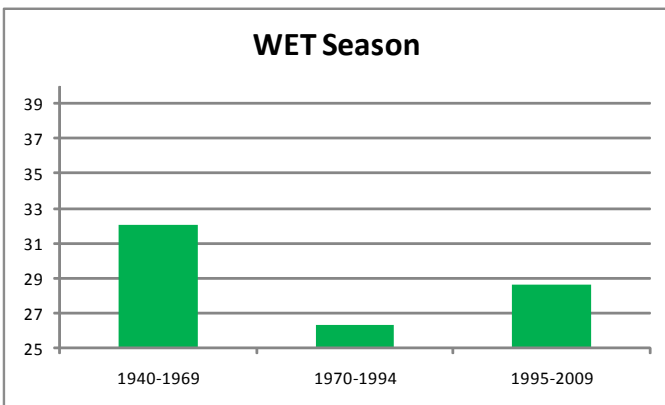
GainesvilleXfor2NWS_Sites



	Annual Total (inches)
1940-1969	54.2
1970-1994	50.4
1995-2009	47.7
POR	50.7



	Dry Season Total (inches)	% of Annual Totals
1940-1969	22.1	41%
1970-1994	24.1	48%
1995-2009	19.1	40%
POR	21.3	42%

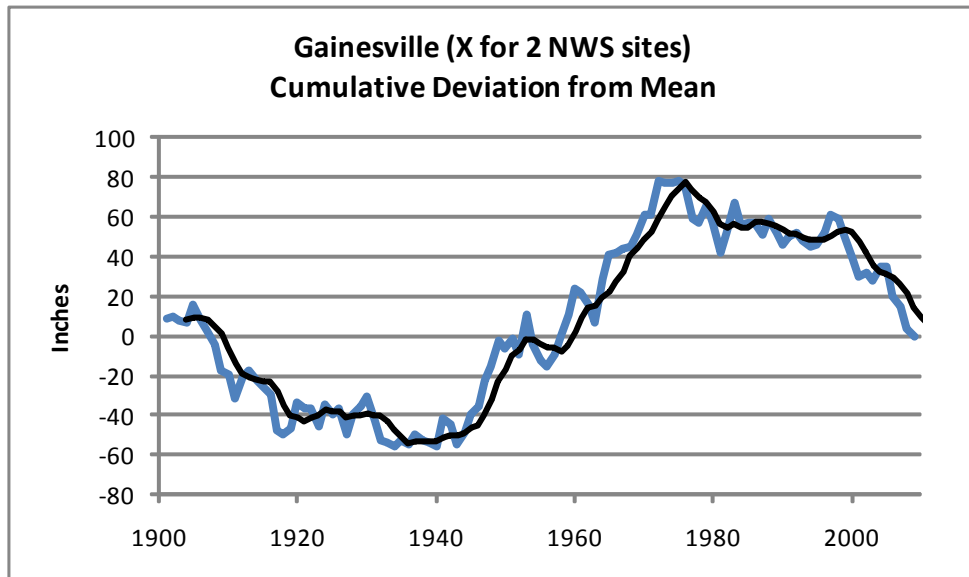


	Wet Season Total (inches)	% of Annual Totals
1940-1969	32.1	59%
1970-1994	26.3	52%
1995-2009	28.6	60%
POR	29.4	58%

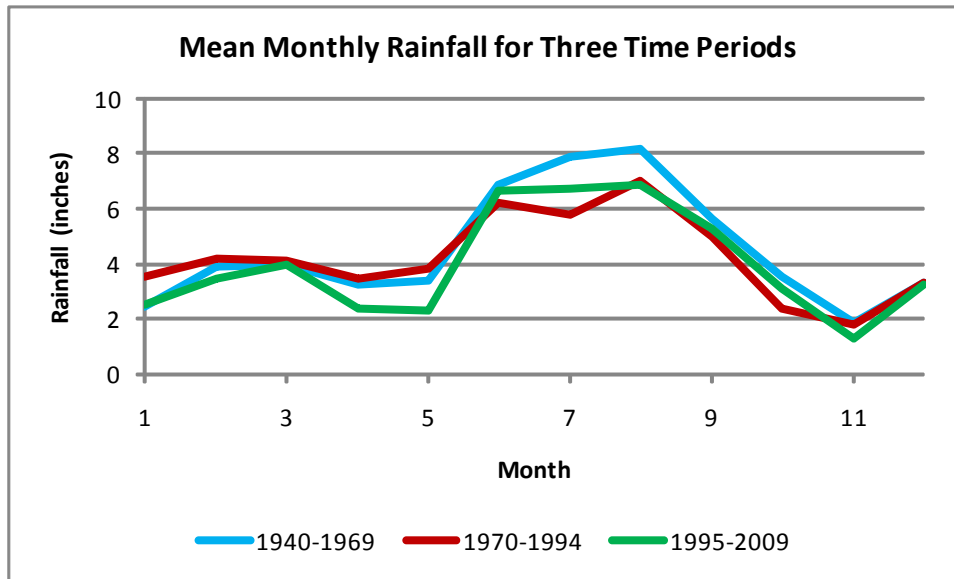
	Mean	Year Ending
Driest 2 yr mean annual	38.41	1981
Driest 3 yr mean annual	40.41	2008
Driest 4 yr mean annual	42.04	2009
Driest 5 yr mean annual	42.83	1911 (2009 2nd)
Driest 10 year mean annual	45.18	2008

Wettest 2 yr mean annual	67.81	1965
Wettest 3 yr mean annual	62.49	1966
Wettest 4 yr mean annual	60.33	1960
Wettest 5 yr mean annual	59.89	1941
Wettest 10 year mean annual	57.77	1973

Record complete since 1901 when use mean of two sites

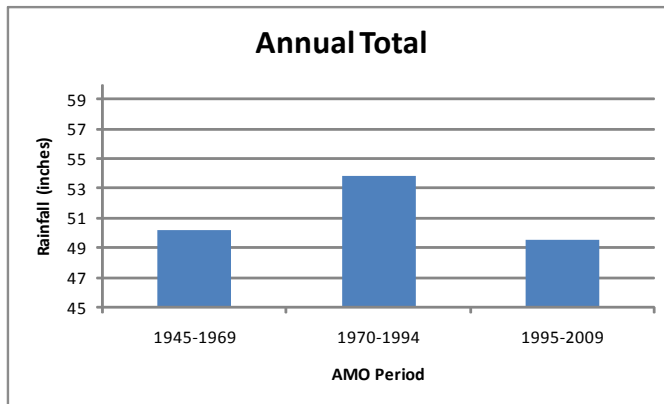


GainesvilleXfor2NWS_Sites

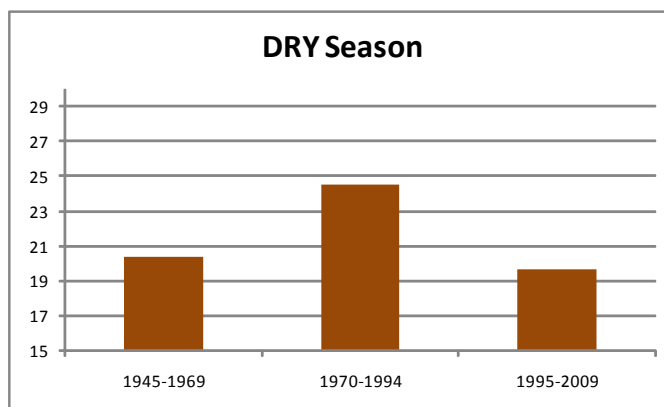


Month	1940-1969	1970-1994	1995-2009
1	2.46	3.53	2.53
2	3.90	4.22	3.49
3	4.00	4.11	3.99
4	3.25	3.46	2.38
5	3.38	3.83	2.29
6	6.85	6.25	6.67
7	7.86	5.80	6.73
8	8.20	6.98	6.88
9	5.63	4.95	5.26
10	3.56	2.35	3.07
11	1.85	1.83	1.32
12	3.29	3.30	3.22
Total	54.23	50.61	47.83

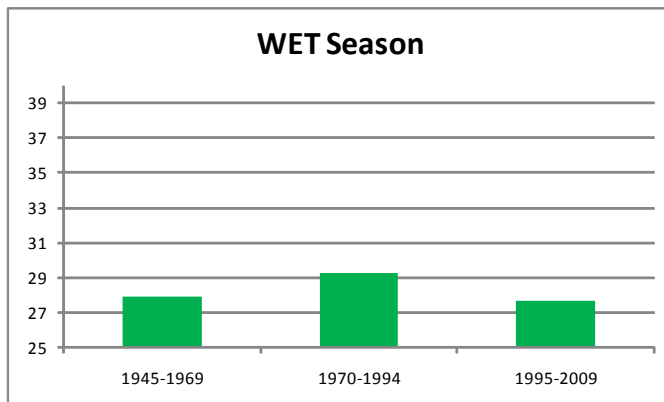
HIGH SPRINGS NWS



	Annual Total (inches)
1940-1969	50.2
1970-1994	53.8
1995-2009	49.5
POR	51.4



	Dry Season Total (inches)	% of Annual Totals
1940-1969	20.4	39%
1970-1994	24.5	46%
1995-2009	19.7	39%
POR	21.7	41%



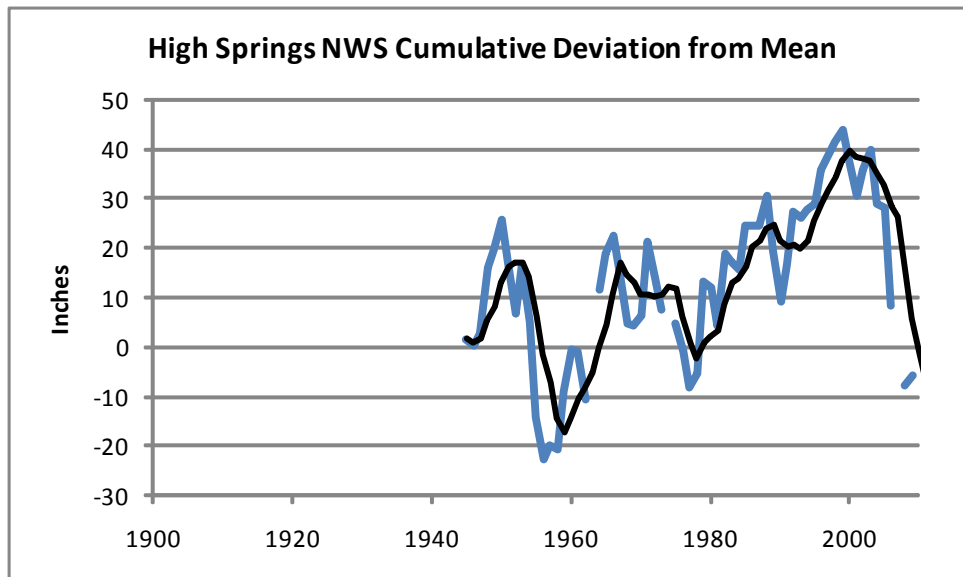
	Wet Season Total (inches)	% of Annual Totals
1940-1969	27.9	54%
1970-1994	29.3	54%
1995-2009	27.7	55%
POR	28.4	54%

	Mean	Year Ending
Driest 2 yr mean annual	37.02	1955
Driest 3 yr mean annual	39.44	1956
Driest 4 yr mean annual	43.39	1957
Driest 5 yr mean annual	44.52	1955
Driest 10 year mean annual	48.86	1958

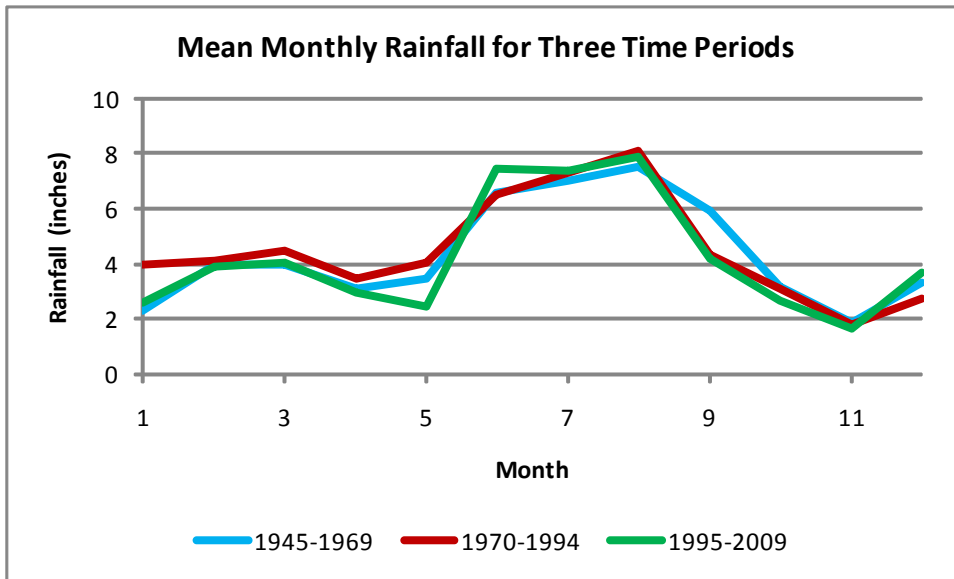
Wettest 2 yr mean annual	63.27	1979
Wettest 3 yr mean annual	60.10	1950
Wettest 4 yr mean annual	58.83	1950
Wettest 5 yr mean annual	57.95	1982
Wettest 10 year mean annual	56.09	1988

Period of Record is from 1945 to present.

Years deleted due to missing data: 1963, 1974, 2007

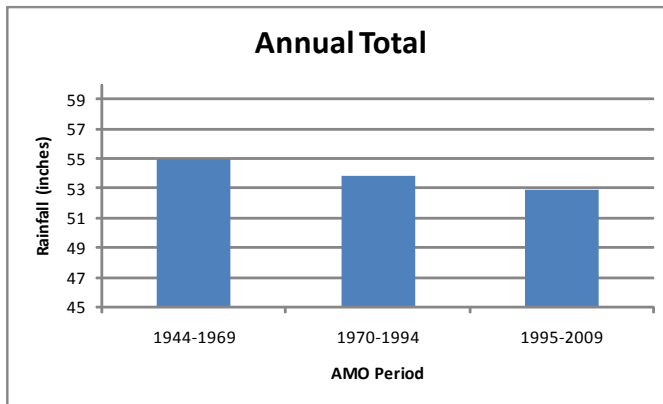


HIGH SPRINGS NWS

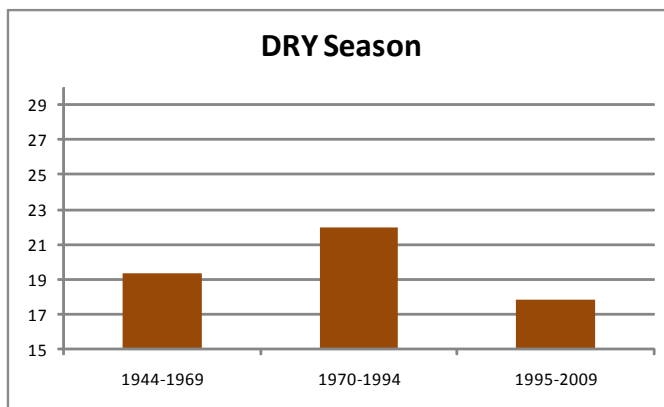


Month	1945-1969	1970-1994	1995-2009
1	2.29	3.97	2.61
2	3.99	4.15	3.93
3	4.00	4.48	4.02
4	3.09	3.44	2.96
5	3.48	4.05	2.45
6	6.60	6.48	7.42
7	6.99	7.29	7.41
8	7.50	8.10	7.89
9	5.93	4.34	4.22
10	3.18	3.09	2.69
11	1.88	1.78	1.66
12	3.36	2.74	3.68
Total	52.28	53.91	50.93

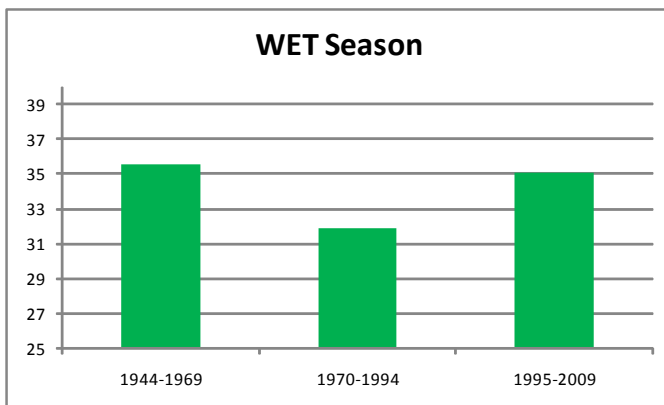
HILLSBOROUGH RIVER STATE PARK NWS



	Annual Total (inches)
1940-1969	54.9
1970-1994	53.9
1995-2009	52.9
POR	54.0



	Dry Season Total (inches)	% of Annual Totals
1940-1969	19.3	35%
1970-1994	22.0	41%
1995-2009	17.8	33%
POR	19.8	37%



	Wet Season Total (inches)	% of Annual Totals
1940-1969	35.6	65%
1970-1994	31.9	59%
1995-2009	35.0	67%
POR	34.2	63%

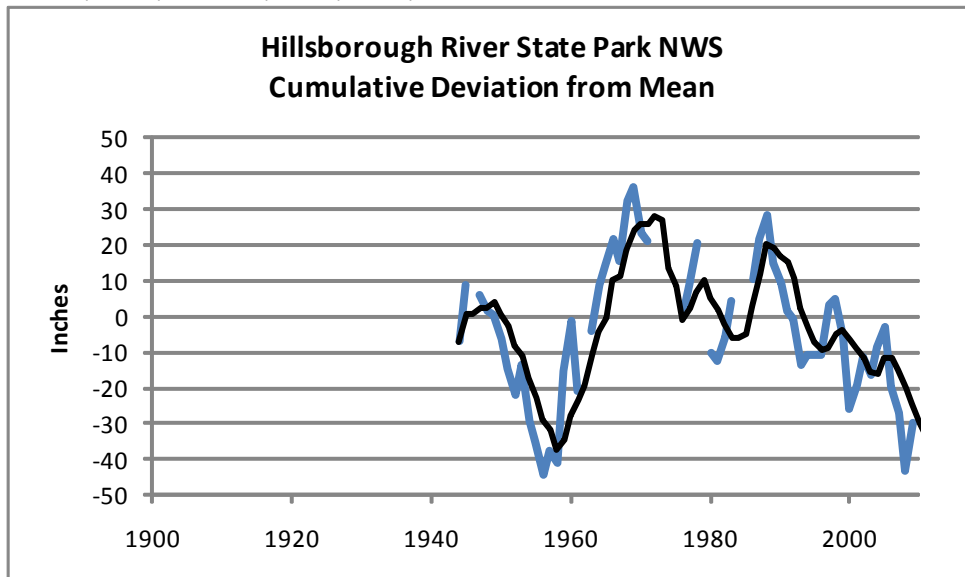
	Mean	Year Ending
Driest 2 yr mean annual	38.80	2000
Driest 3 yr mean annual	40.54	2008
Driest 4 yr mean annual	45.34	2008
Driest 5 yr mean annual	45.65	1993
Driest 10 year mean annual	49.31	2008

Wettest 2 yr mean annual	73.81	1960
Wettest 3 yr mean annual	66.12	1960
Wettest 4 yr mean annual	64.82	1960
Wettest 5 yr mean annual	61.40	1968
Wettest 10 year mean annual	54.92	

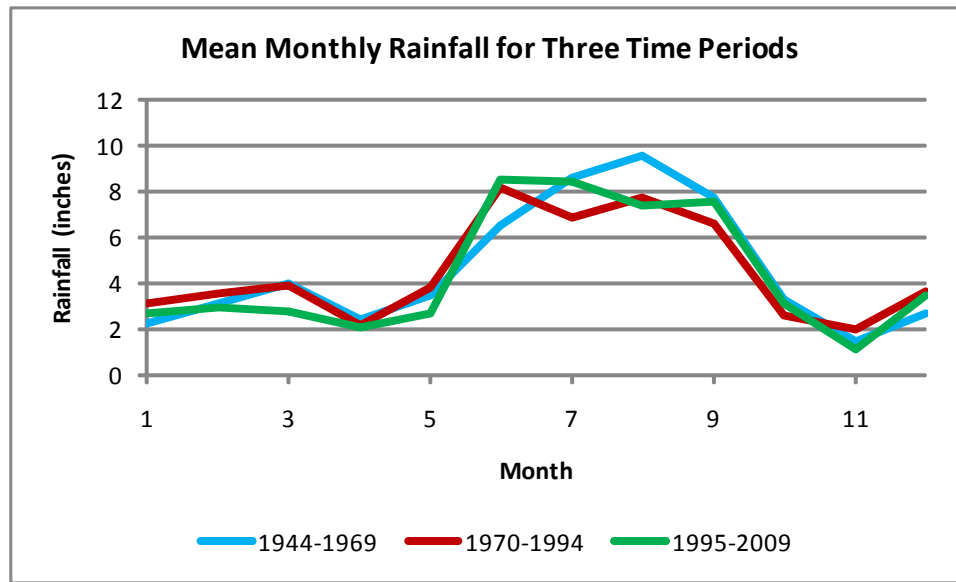
Period of Record from 1944 to 2009

Years deleted due to missing data:

1946-47, 1962, 1972-73, 1975, 1979, 1984-85

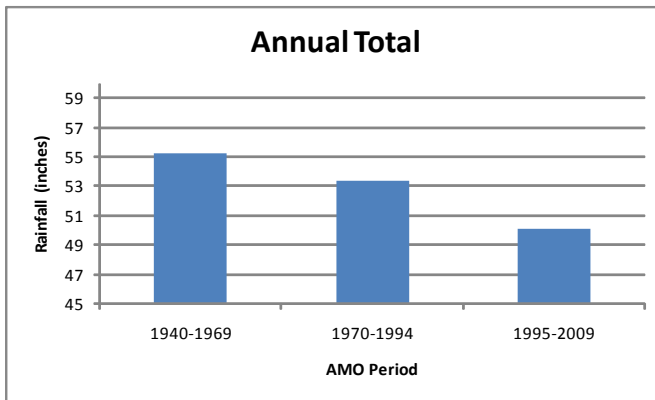


HILLSBOROUGH RIVER STATE PARK NWS

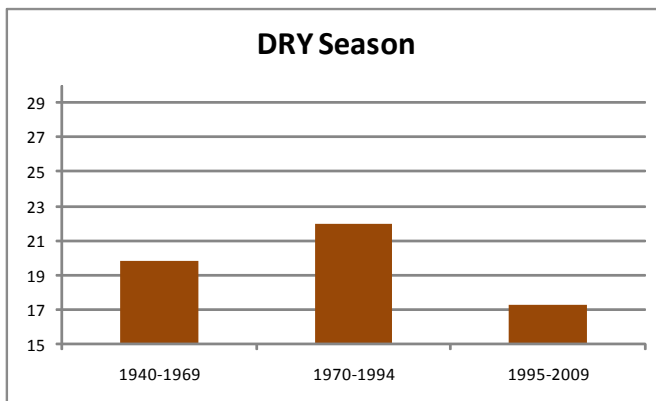


Month	1944-1969	1970-1994	1995-2009
1	2.21	3.10	2.71
2	3.13	3.51	2.97
3	4.02	3.94	2.80
4	2.42	2.19	2.07
5	3.47	3.84	2.70
6	6.47	8.15	8.47
7	8.57	6.83	8.44
8	9.53	7.76	7.42
9	7.69	6.58	7.59
10	3.33	2.55	3.13
11	1.45	1.98	1.15
12	2.71	3.63	3.50
Total	55.00	54.06	52.95

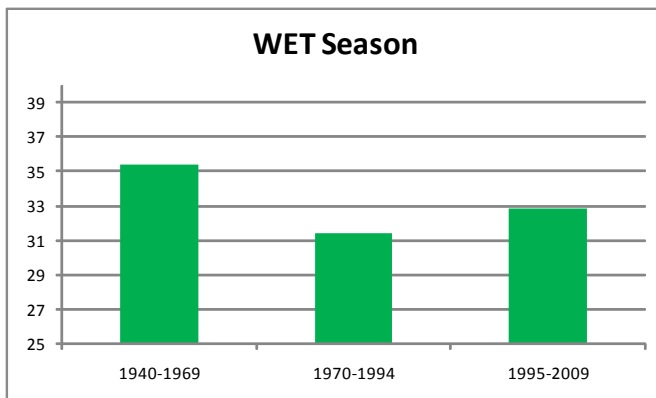
INVERNESS 3 SE NWS



	Annual Total (inches)
1940-1969	55.3
1970-1994	53.3
1995-2009	50.1
POR	52.8



	Dry Season Total (inches)	% of Annual Totals
1940-1969	19.8	36%
1970-1994	22.0	41%
1995-2009	17.3	35%
POR	19.6	37%



	Wet Season Total (inches)	% of Annual Totals
1940-1969	35.4	64%
1970-1994	31.4	59%
1995-2009	32.8	65%
POR	33.2	63%

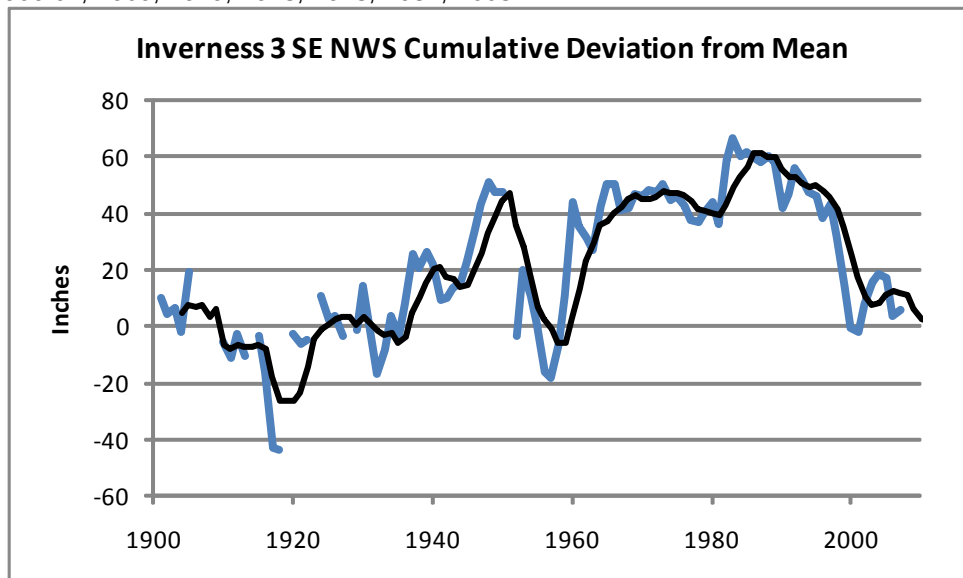
	Mean	Year Ending
Driest 2 yr mean annual	33.75	1917 (2000 2nd)
Driest 3 yr mean annual	38.70	2000
Driest 4 yr mean annual	42.06	2001
Driest 5 yr mean annual	43.99	2000
Driest 10 year mean annual	48.48	2001

Wettest 2 yr mean annual	78.39	1960
Wettest 3 yr mean annual	74.00	1960
Wettest 4 yr mean annual	68.40	1960
Wettest 5 yr mean annual	63.57	1961
Wettest 10 year mean annual	59.94	1966

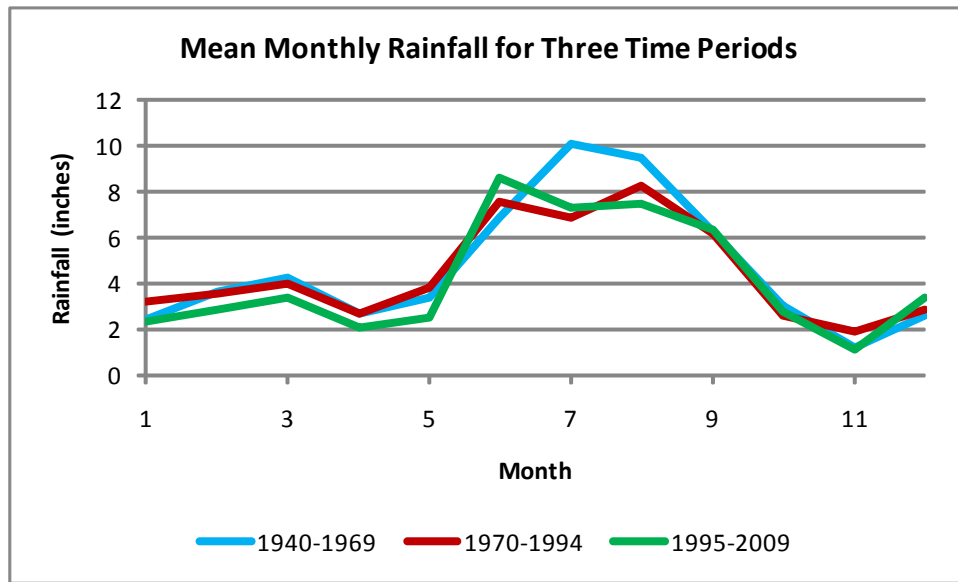
Period of Record fm 1901 to 2009

Years due to missing data:

1906-07, 1909, 1919, 1923, 1928, 1951, 2008

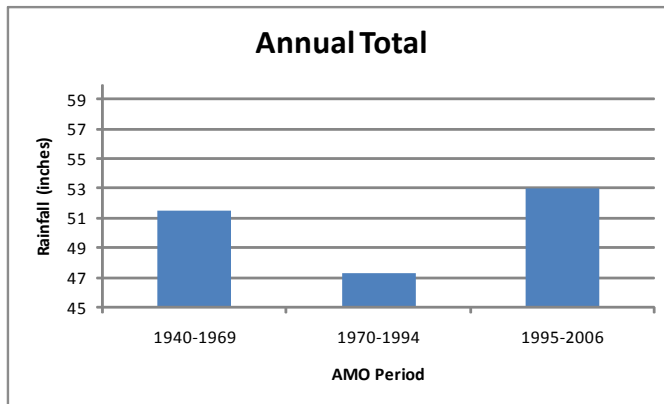


INVERNESS 3 SE NWS

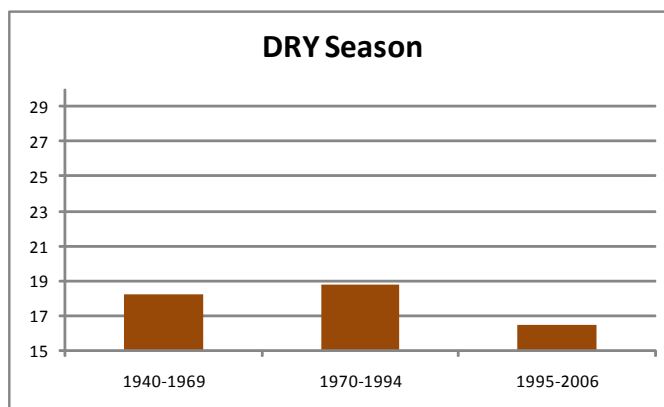


Month	1940-1969	1970-1994	1995-2009
1	2.45	3.20	2.36
2	3.59	3.57	2.89
3	4.28	3.99	3.41
4	2.69	2.65	2.09
5	3.38	3.85	2.51
6	6.87	7.56	8.60
7	10.06	6.88	7.31
8	9.51	8.21	7.48
9	6.26	6.16	6.34
10	3.01	2.58	2.76
11	1.16	1.92	1.09
12	2.55	2.82	3.35
Total	55.82	53.41	50.19

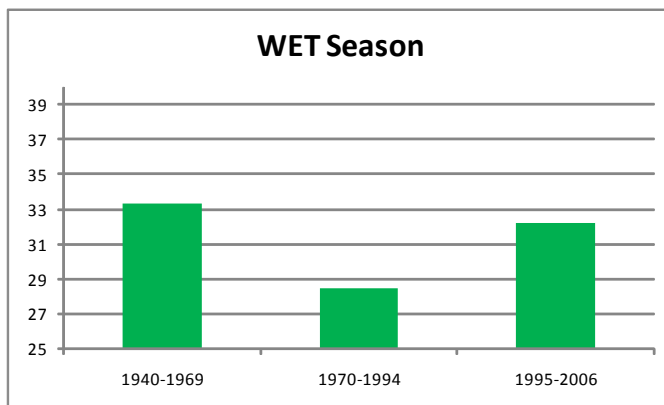
KISSIMMEE 2 NWS



	Annual Total (inches)
1940-1969	51.5
1970-1994	47.3
1995-2009	53.0
POR	49.8



	Dry Season Total (inches)	% of Annual Totals
1940-1969	18.2	35%
1970-1994	18.8	40%
1995-2009	16.5	31%
POR	18.2	37%



	Wet Season Total (inches)	% of Annual Totals
1940-1969	33.3	65%
1970-1994	28.5	60%
1995-2009	32.2	61%
POR	31.0	62%

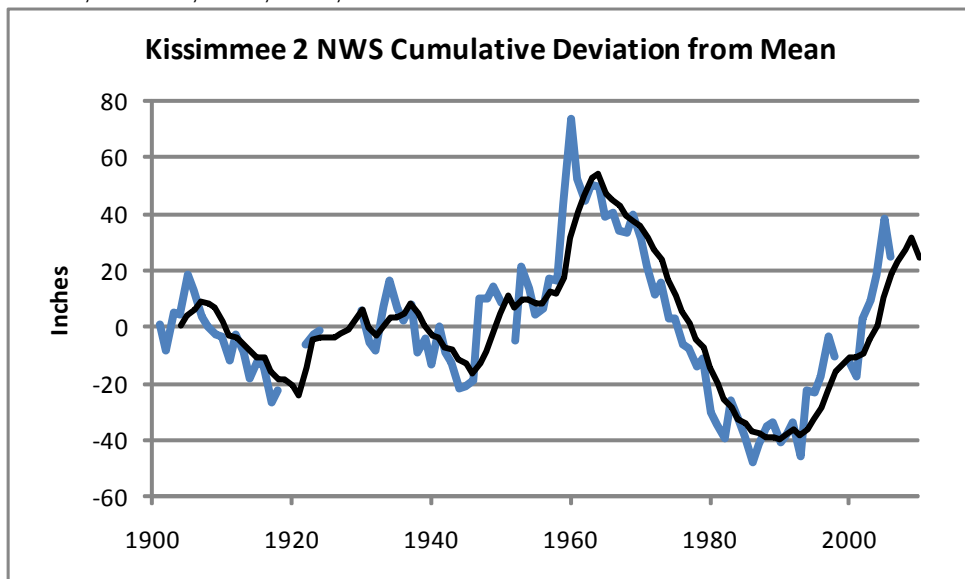
	Mean	Year Ending
Driest 2 yr mean annual	35.30	1962
Driest 3 yr mean annual	40.46	1972
Driest 4 yr mean annual	42.58	1974
Driest 5 yr mean annual	42.44	1974
Driest 10 year mean annual	43.58	1980

Wetest 2 yr mean annual	78.37	1960
Wetest 3 yr mean annual	68.64	1960
Wetest 4 yr mean annual	66.49	1960
Wetest 5 yr mean annual	63.67	1960
Wetest 10 year mean annual	57.94	1960

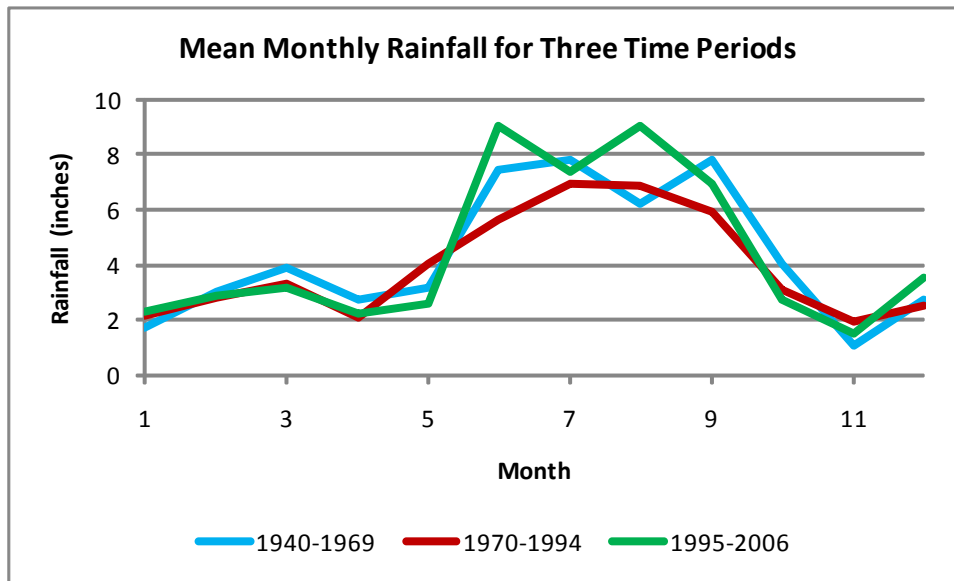
Period of Record is 1901 to 2006

Years deleted due to missing data:

1919-21, 1925-29, 1951, 1999, 2007-09

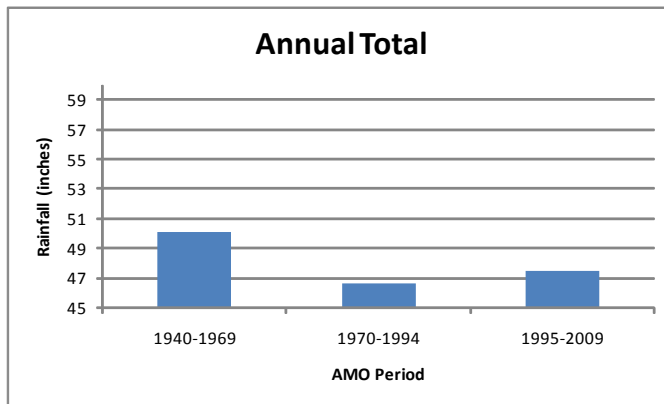


KISSIMMEE 2 NWS

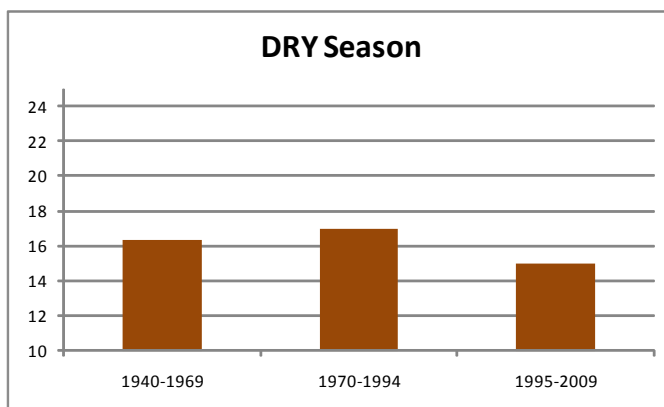


Month	1940-1969	1970-1994	1995-2006
1	1.73	2.13	2.27
2	3.03	2.81	2.89
3	3.90	3.35	3.15
4	2.74	2.12	2.21
5	3.21	4.01	2.62
6	7.44	5.62	9.08
7	7.79	6.97	7.40
8	6.22	6.89	9.02
9	7.81	5.92	6.95
10	4.05	3.09	2.72
11	1.11	1.97	1.47
12	2.70	2.51	3.52
Total	51.72	47.40	53.30

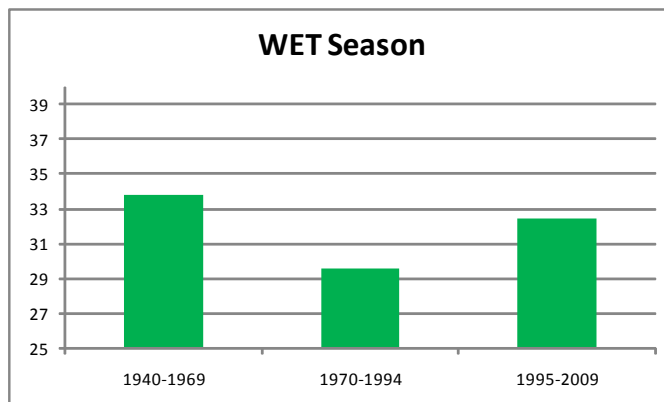
MOORE HAVEN LOCK 1 NWS



	Annual Total (inches)
1940-1969	50.1
1970-1994	46.6
1995-2009	47.4
POR	48.4



	Dry Season Total (inches)	% of Annual Totals
1940-1969	16.3	32%
1970-1994	17.0	36%
1995-2009	15.0	32%
POR	15.7	33%

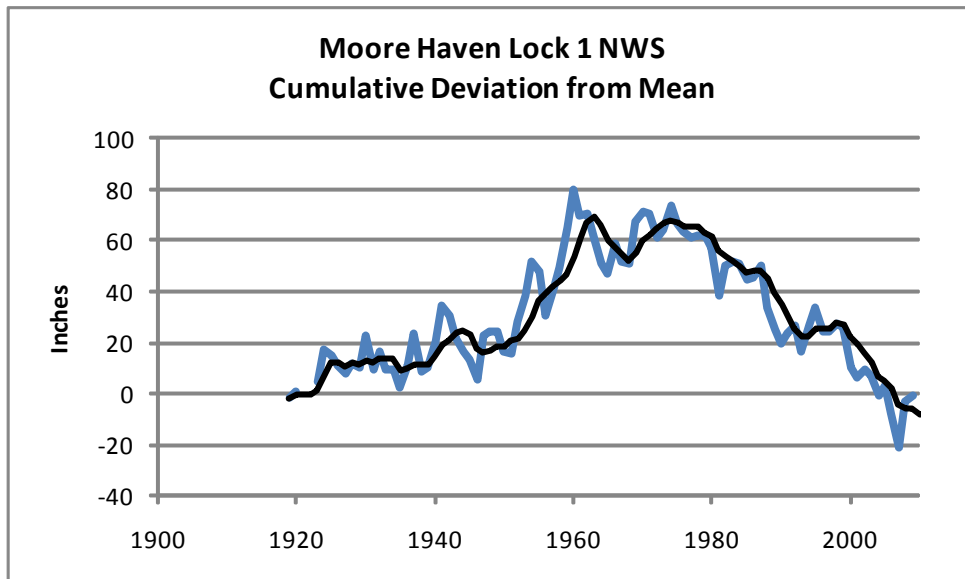


	Wet Season Total (inches)	% of Annual Totals
1940-1969	33.8	68%
1970-1994	29.6	64%
1995-2009	32.4	68%
POR	32.2	67%

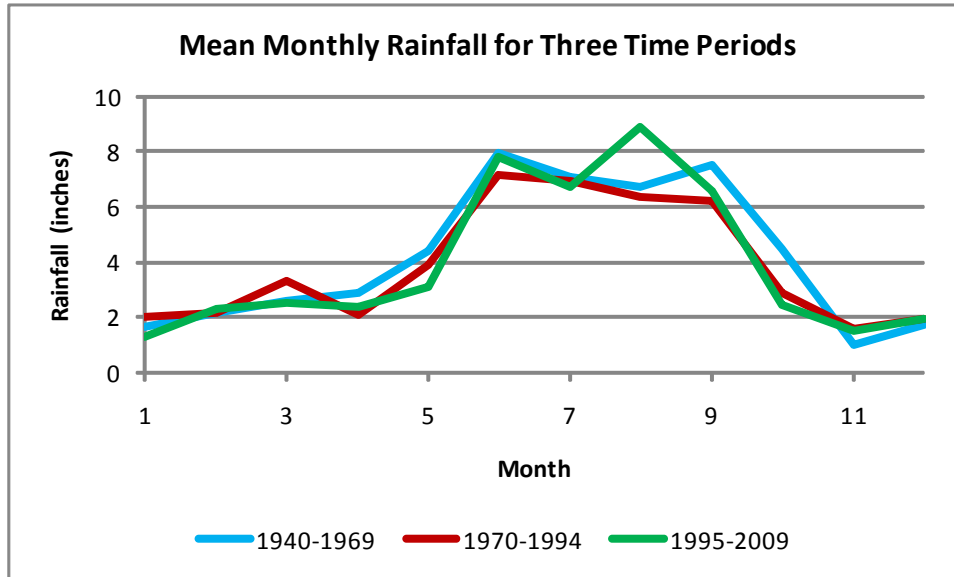
	Mean	Year Ending
Driest 2 yr mean annual	35.88	1989
Driest 3 yr mean annual	37.96	1990
Driest 4 yr mean annual	40.88	1964
Driest 5 yr mean annual	41.61	1965
Driest 10 year mean annual	43.68	2007

Wettest 2 yr mean annual	63.58	1960
Wettest 3 yr mean annual	61.37	1960
Wettest 4 yr mean annual	60.59	1960
Wettest 5 yr mean annual	56.00	1961
Wettest 10 year mean annual	54.62	1960

Period of Record 1919 to 2009
Years deleted due to missing data:
1921-22, 2001, 2007

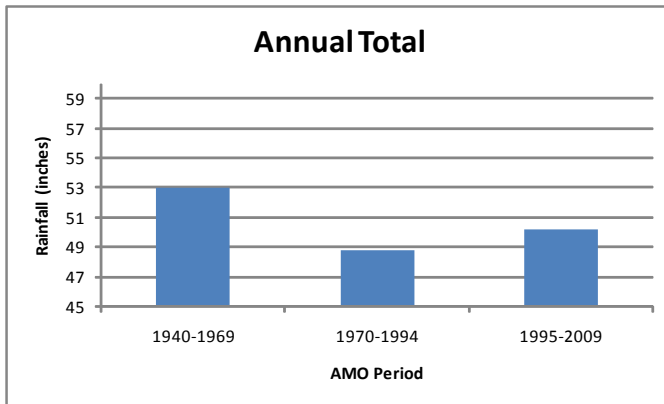


MOORE HAVEN LOCK 1 NWS

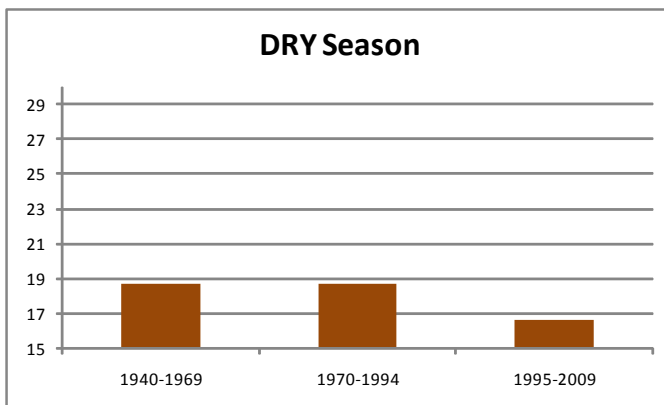


Month	1940-1969	1970-1994	1995-2009
1	1.62	2.03	1.32
2	2.17	2.15	2.28
3	2.61	3.31	2.53
4	2.86	2.11	2.36
5	4.38	3.89	3.11
6	7.94	7.15	7.78
7	7.12	6.98	6.70
8	6.69	6.36	8.92
9	7.53	6.22	6.58
10	4.49	2.90	2.45
11	1.01	1.61	1.47
12	1.76	1.96	1.97
Total	50.20	46.65	47.48

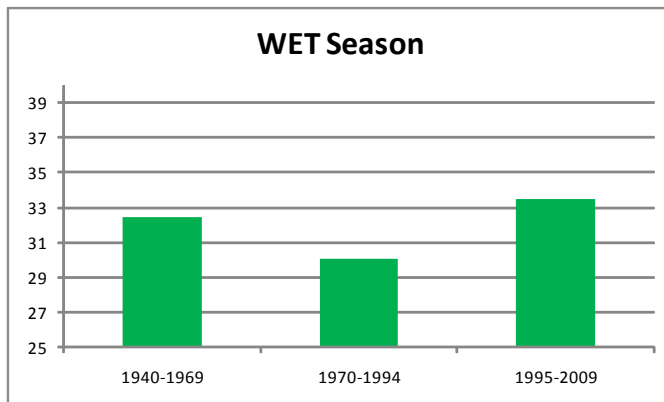
MOUNTAIN LAKE NWS



	Annual Total (inches)
1940-1969	53.0
1970-1994	48.8
1995-2009	50.2
POR	50.9



	Dry Season Total (inches)	% of Annual Totals
1940-1969	18.7	35%
1970-1994	18.7	38%
1995-2009	16.7	33%
POR	18.3	36%



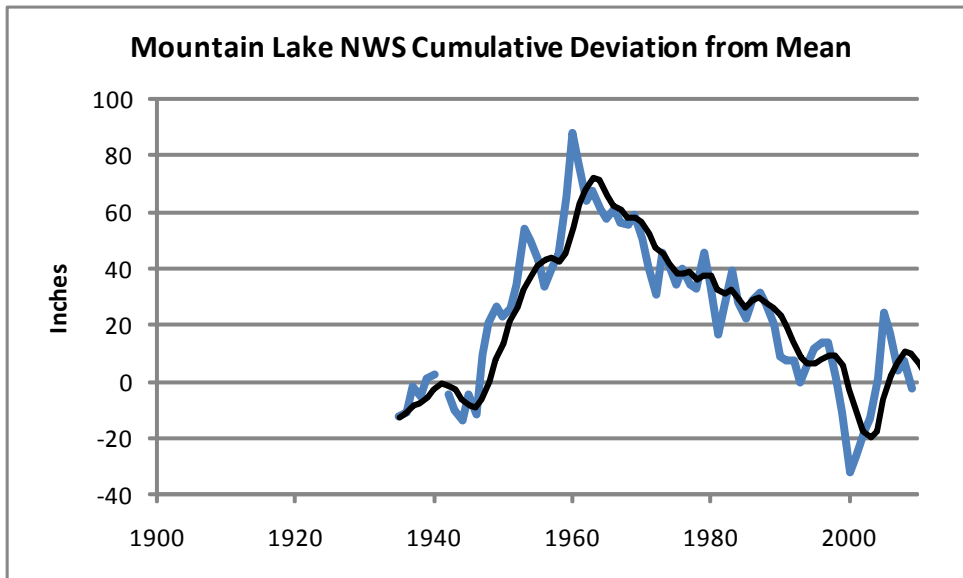
	Wet Season Total (inches)	% of Annual Totals
1940-1969	32.4	61%
1970-1994	30.1	62%
1995-2009	33.5	67%
POR	31.9	63%

	Mean	Year Ending
Driest 2 yr mean annual	34.31	2000
Driest 3 yr mean annual	35.55	2000
Driest 4 yr mean annual	39.37	2000
Driest 5 yr mean annual	42.12	2000
Driest 10 year mean annual	46.73	2000

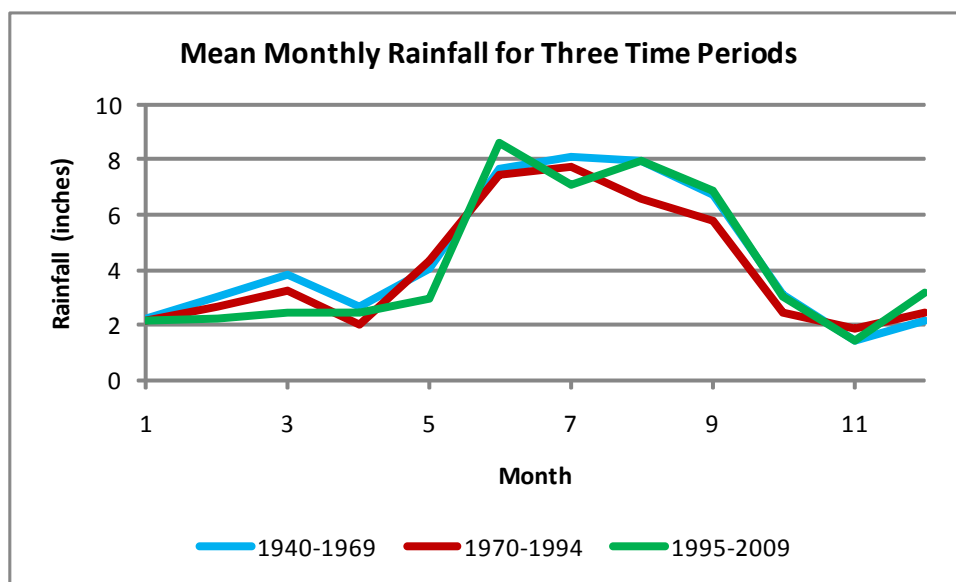
Wettest 2 yr mean annual	72.22	1960
Wettest 3 yr mean annual	66.51	1960
Wettest 4 yr mean annual	64.44	1960
Wettest 5 yr mean annual	62.14	2005
Wettest 10 year mean annual	57.29	1960

Period of Record 1935 to 2009

Years deleted due to missing data: 1941

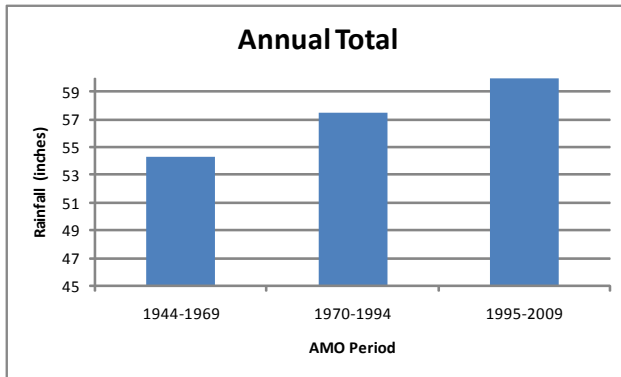


MOUNTAIN LAKE NWS

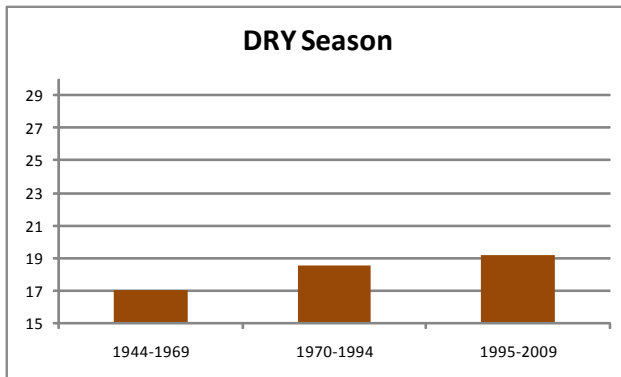


Month	1940-1969	1970-1994	1995-2009
1	2.26	2.18	2.16
2	3.05	2.69	2.25
3	3.80	3.28	2.45
4	2.69	2.02	2.43
5	4.01	4.32	2.97
6	7.70	7.48	8.59
7	8.07	7.72	7.07
8	7.98	6.58	7.98
9	6.70	5.80	6.86
10	3.10	2.47	3.02
11	1.45	1.84	1.43
12	2.16	2.46	3.14
Total	52.96	48.85	50.35

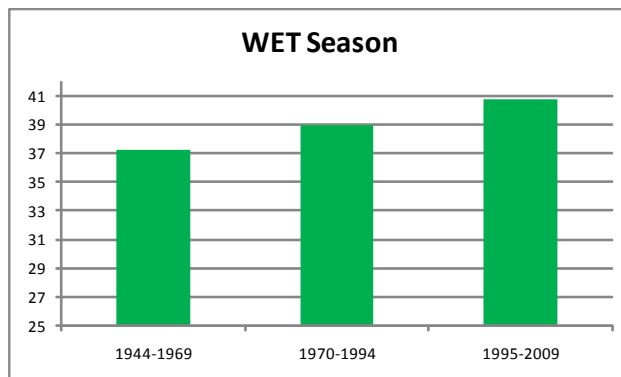
MYAKKA RIVER STATE PARK NWS



	Annual Total (inches)
1940-1969	54.3
1970-1994	57.5
1995-2009	60.0
POR	56.8



	Dry Season Total (inches)	X% of Annual Totals
1940-1969	17.1	31%
1970-1994	18.6	32%
1995-2009	19.2	32%
POR	18.1	32%



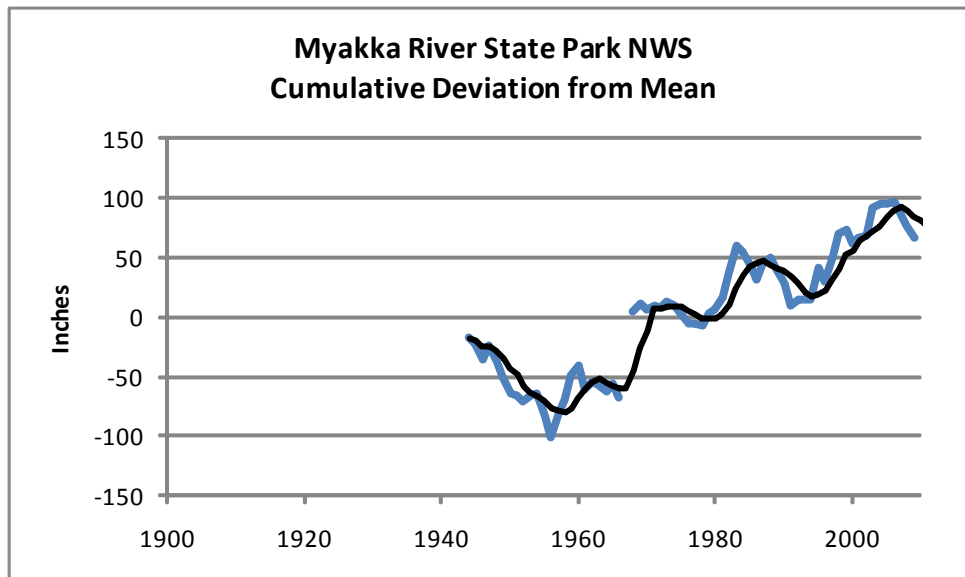
	Wet Season Total (inches)	X% of Annual Totals
1940-1969	37.2	69%
1970-1994	38.9	68%
1995-2009	40.8	68%
POR	38.7	68%

	Mean	Year Ending
Driest 2 yr mean annual	38.20	1956
Driest 3 yr mean annual	43.19	1991
Driest 4 yr mean annual	46.30	1951
Driest 5 yr mean annual	47.41	1952
Driest 10 year mean annual	49.90	1953

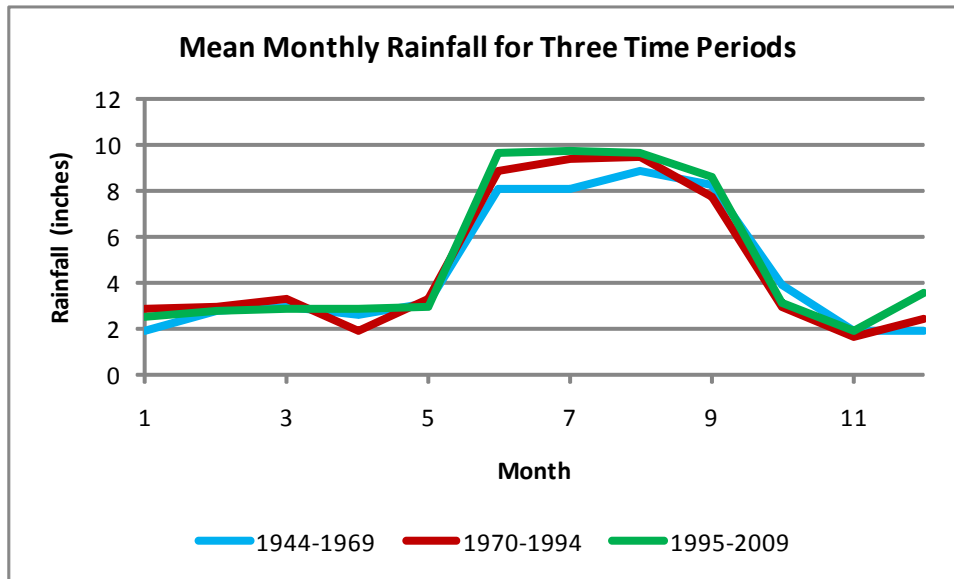
Wetest 2 yr mean annual	78.54	1983
Wetest 3 yr mean annual	74.88	1983
Wetest 4 yr mean annual	71.31	1960
Wetest 5 yr mean annual	70.02	1985
Wetest 10 year mean annual	64.56	2004

Period of Record from 1944 to 2009

Years deleted due to missing data: 1967

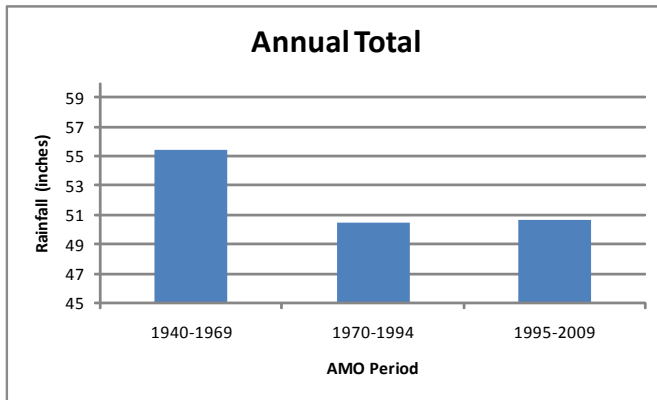


MYAKKA RIVER STATE PARK NWS

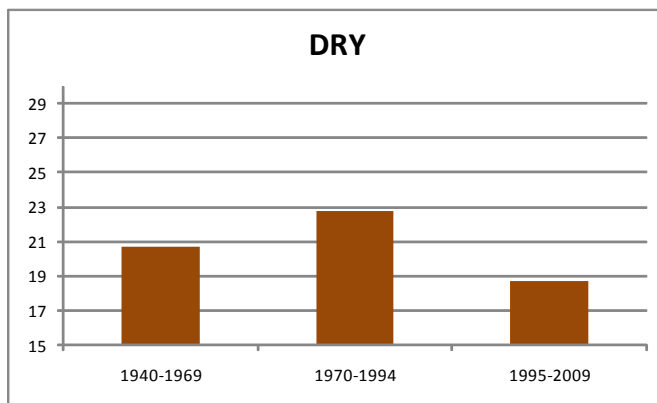


Month	1944-1969	1970-1994	1995-2009
1	1.89	2.87	2.49
2	2.77	2.96	2.80
3	2.95	3.31	2.86
4	2.61	1.91	2.89
5	3.11	3.29	2.92
6	8.11	8.88	9.65
7	8.11	9.35	9.75
8	8.85	9.43	9.65
9	8.24	7.74	8.62
10	3.91	2.97	3.12
11	1.85	1.67	1.88
12	1.93	2.38	3.51
Total	54.33	56.77	60.14

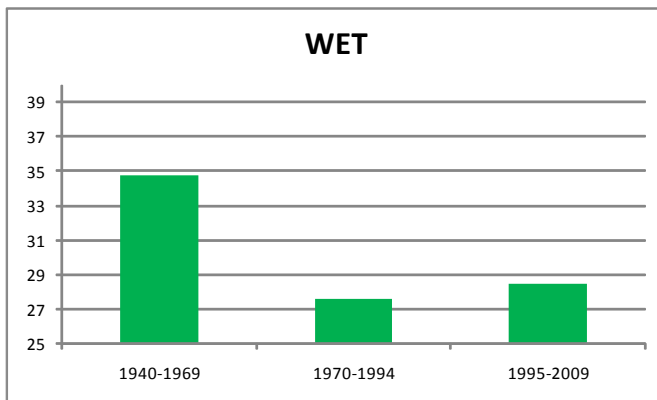
OCALA NWS RAINFALL



	Annual Total (inches)
1940-1969	55.5
1970-1994	50.4
1995-2009	50.7
POR	52.8



	Dry Season Total (inches)	% of Annual Totals
1940-1969	20.7	37%
1970-1994	22.8	45%
1995-2009	18.7	37%
POR	20.5	39%



	Wet Season Total (inches)	% of Annual Totals
1940-1969	34.8	63%
1970-1994	27.6	55%
1995-2009	28.5	57%
POR	30.7	58%

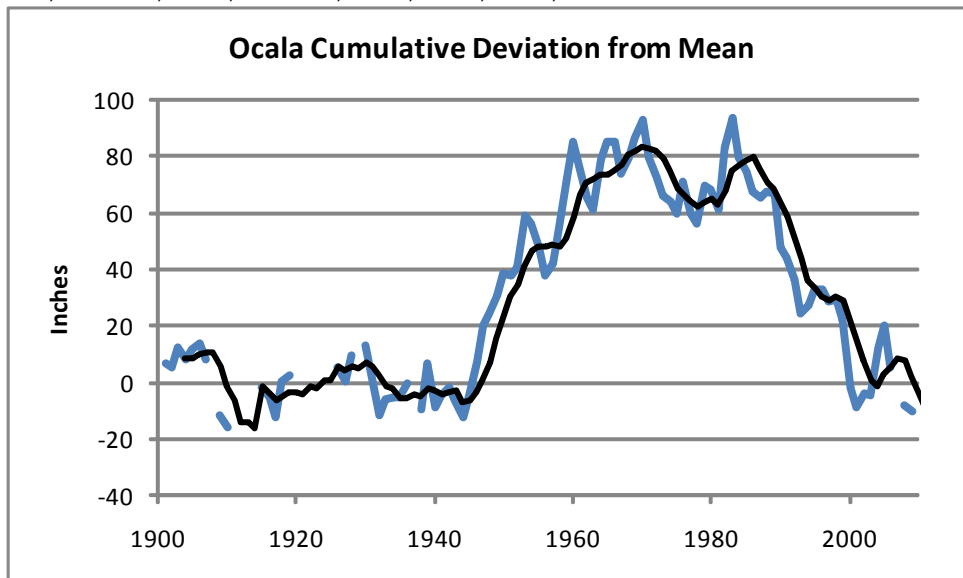
	Mean	Year Ending
Driest 2 yr mean annual	37.10	2000
Driest 3 yr mean annual	40.13	2001
Driest 4 yr mean annual	42.16	1993
Driest 5 yr mean annual	44.11	1993
Driest 10 year mean annual	45.90	1993

Wetest 2 yr mean annual	68.82	1983
Wetest 3 yr mean annual	67.06	1960
Wetest 4 yr mean annual	64.66	1960
Wetest 5 yr mean annual	61.46	1949
Wetest 10 year mean annual	59.70	1954

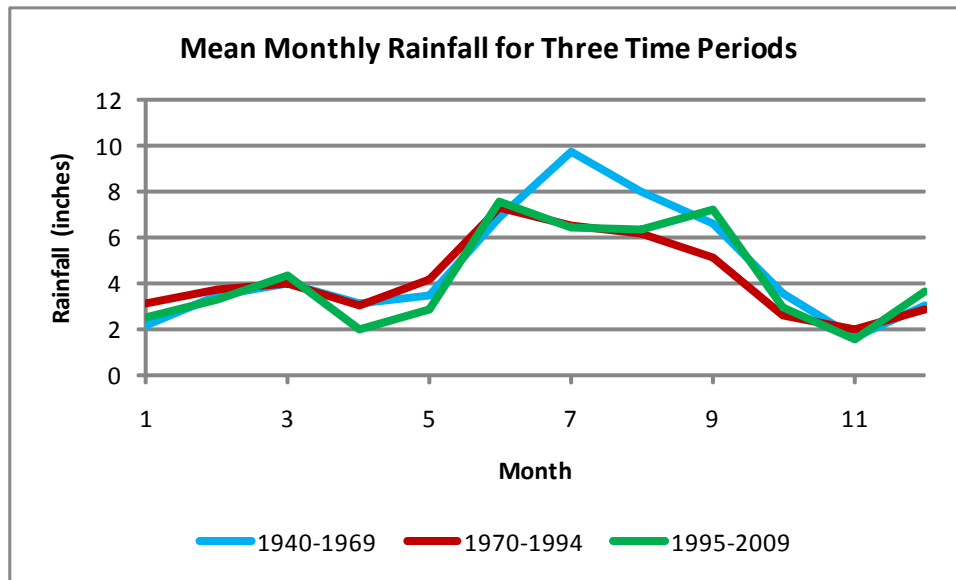
Period of Record is from 1901 to 2009

Years deleted due to missing values:

1908, 1911-14, 1920, 1922-23, 1925, 1929, 1937, 2007

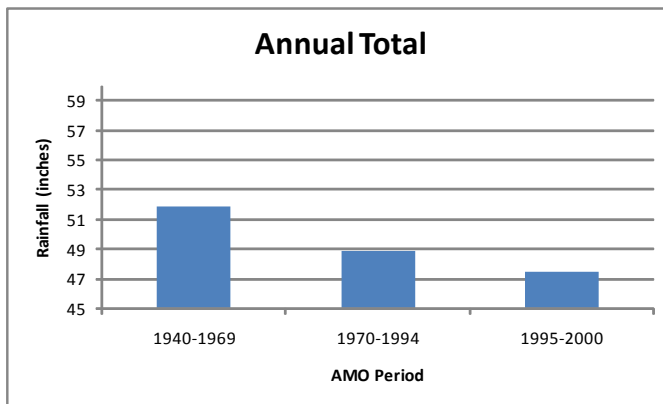


OCALA NWS RAINFALL

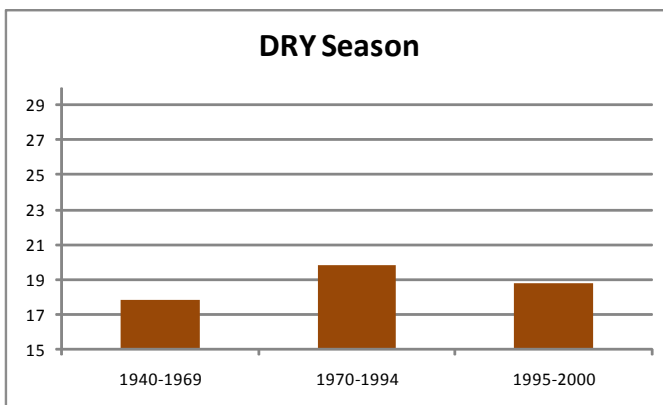


Month	1940-1969	1970-1994	1995-2009
1	2.19	3.15	2.53
2	3.48	3.69	3.29
3	4.01	3.95	4.31
4	3.14	3.04	2.01
5	3.47	4.16	2.87
6	6.85	7.30	7.51
7	9.70	6.48	6.46
8	8.02	6.18	6.32
9	6.61	5.12	7.22
10	3.57	2.55	2.97
11	1.60	2.01	1.53
12	3.02	2.84	3.64
Total	55.67	50.47	50.65

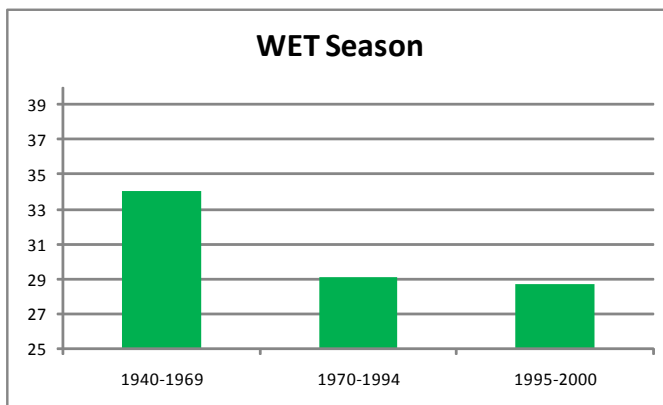
ORLANDO HERNDON AIRPORT NWS



	Annual Total (inches)
1940-1969	51.8
1970-1994	48.9
1995-2000	47.5
POR	51.0



	Dry Season Total (inches)	% of Annual Totals
1940-1969	17.8	34%
1970-1994	19.8	40%
1995-2000	18.8	38%
POR	18.7	37%



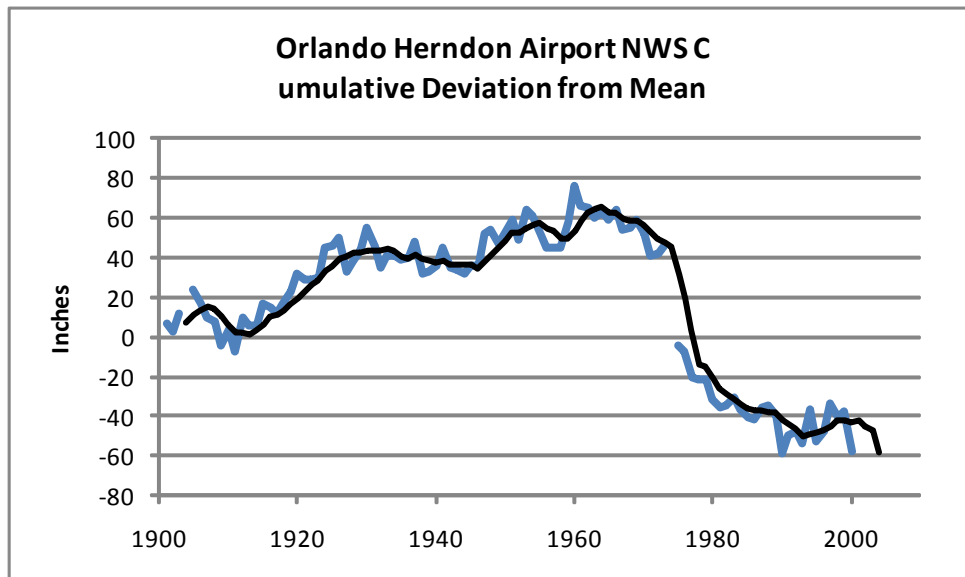
	Wet Season Total (inches)	% of Annual Totals
1940-1969	34.0	66%
1970-1994	29.1	60%
1995-2000	28.7	62%
POR	32.3	63%

	Mean	Year Ending
Driest 2 yr mean annual	38.67	1990
Driest 3 yr mean annual	42.98	2000
Driest 4 yr mean annual	43.93	1998
Driest 5 yr mean annual	45.45	1980
Driest 10 year mean annual	47.29	1984

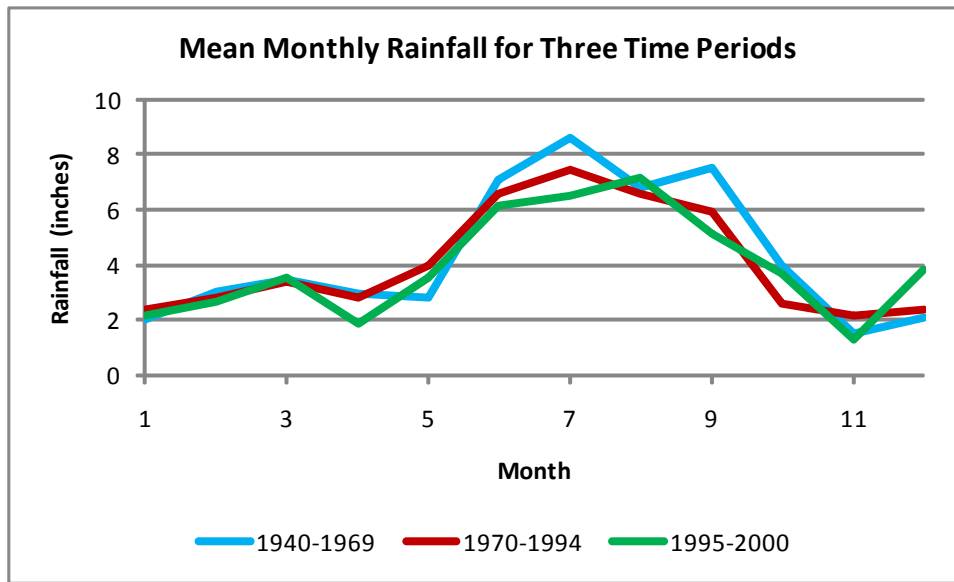
Wettest 2 yr mean annual	66.18	1960
Wettest 3 yr mean annual	61.18	1960
Wettest 4 yr mean annual	58.62	1960
Wettest 5 yr mean annual	55.68	1960
Wettest 10 year mean annual	54.88	1924

Period of Record from 1901 to 2000

Years deleted due to missing data: 1904, 1974

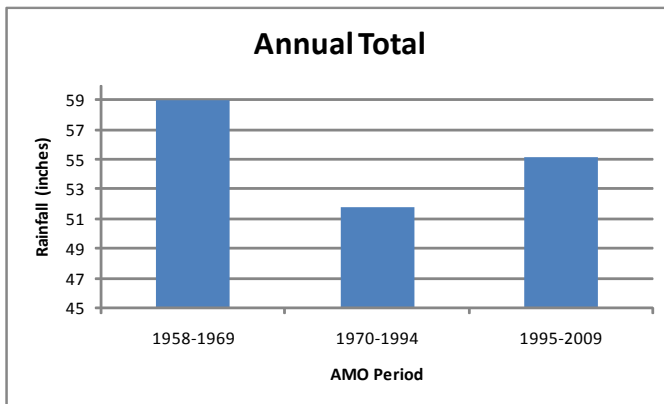


ORLANDO HERNDON AIRPORT NWS

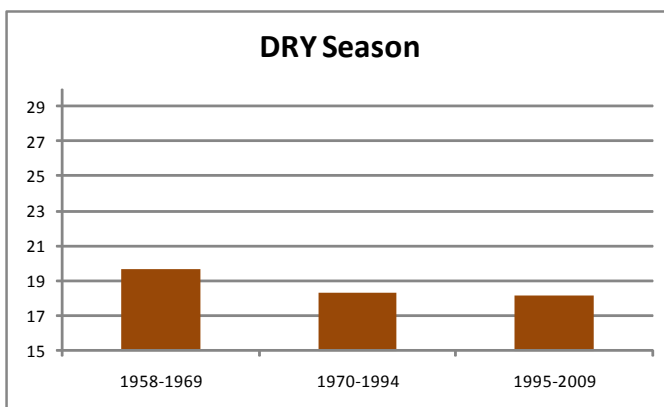


Month	1940-1969	1970-1994	1995-2000
1	2.03	2.39	2.14
2	3.01	2.85	2.66
3	3.49	3.39	3.55
4	2.96	2.78	1.84
5	2.84	3.96	3.56
6	7.12	6.59	6.13
7	8.58	7.43	6.53
8	6.83	6.55	7.17
9	7.51	5.92	5.15
10	3.98	2.61	3.71
11	1.48	2.18	1.29
12	2.11	2.36	3.86
Total	51.93	49.00	47.58

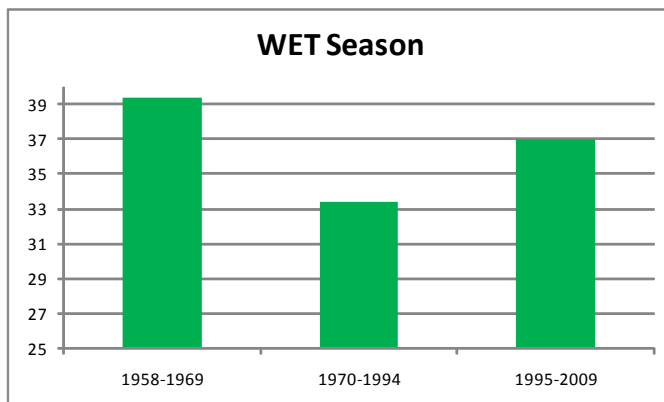
PARRISH NWS



	Annual Total (inches)
1940-1969	59.0
1970-1994	51.8
1995-2009	55.1
POR	54.4



	Dry Season Total (inches)	% of Annual Totals
1940-1969	19.7	33%
1970-1994	18.3	36%
1995-2009	18.1	32%
POR	18.6	34%



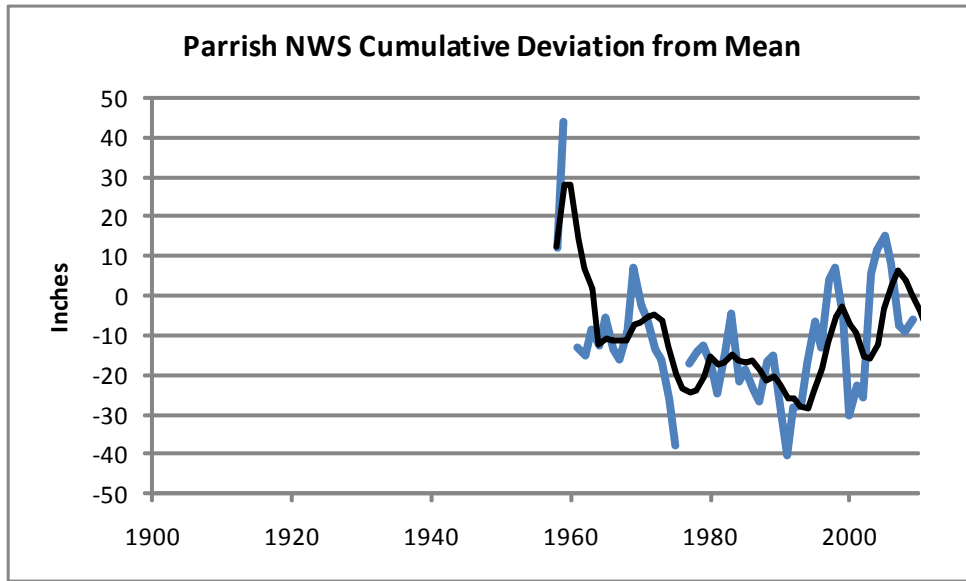
	Wet Season Total (inches)	% of Annual Totals
1940-1969	39.3	67%
1970-1994	33.4	64%
1995-2009	37.0	68%
POR	35.8	66%

	Mean	Year Ending
Driest 2 yr mean annual	35.88	2000
Driest 3 yr mean annual	42.94	2000
Driest 4 yr mean annual	46.13	2003
Driest 5 yr mean annual	47.27	1975
Driest 10 year mean annual	insufficient data	

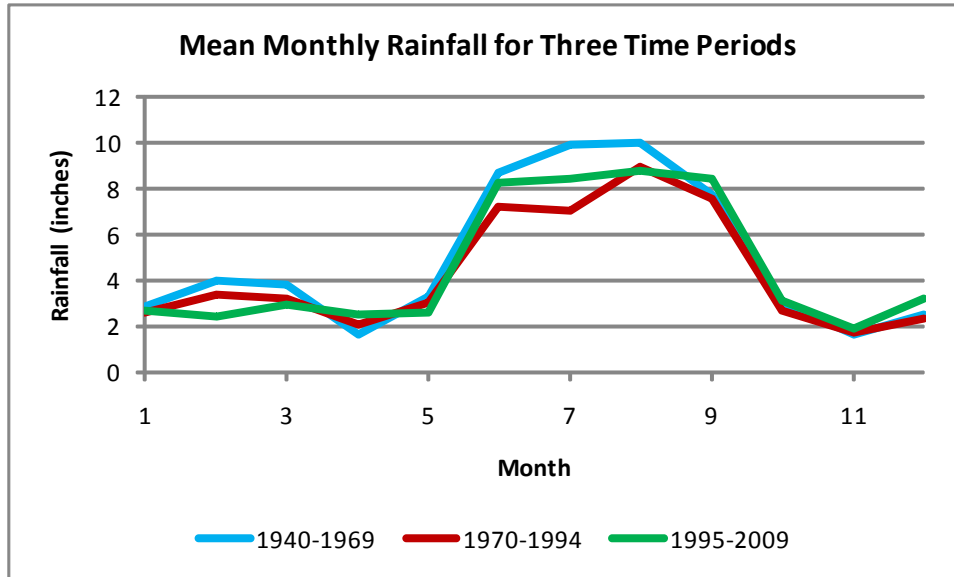
Wettest 2 yr mean annual	76.28	1959
Wettest 3 yr mean annual	68.05	2005
Wettest 4 yr mean annual	64.74	2004
Wettest 5 yr mean annual	63.38	2005
Wettest 10 year mean annual	insufficient data	

Period of Record is 1958 to 2009

Years deleted due to missing data: 1960, 1976

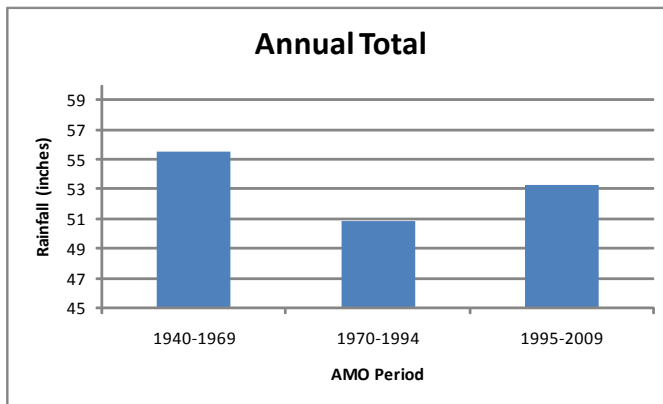


PARRISH NWS

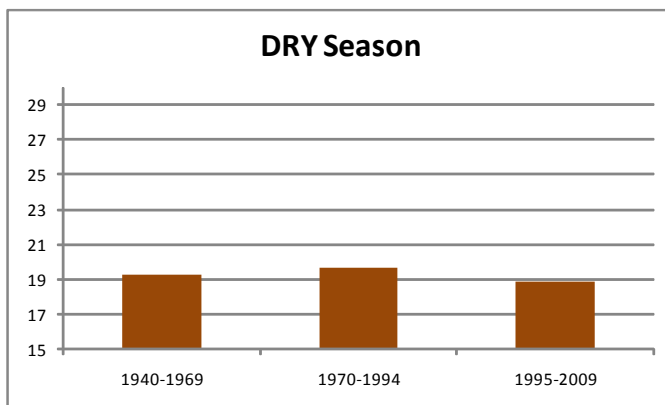


Month	1940-1969	1970-1994	1995-2009
1	2.88	2.59	2.69
2	3.96	3.42	2.45
3	3.80	3.20	2.94
4	1.64	2.09	2.53
5	3.31	3.04	2.57
6	8.70	7.24	8.27
7	9.91	7.06	8.42
8	9.97	8.90	8.74
9	7.71	7.54	8.40
10	3.04	2.70	3.15
11	1.60	1.74	1.91
12	2.54	2.29	3.19
Total	59.06	51.81	55.26

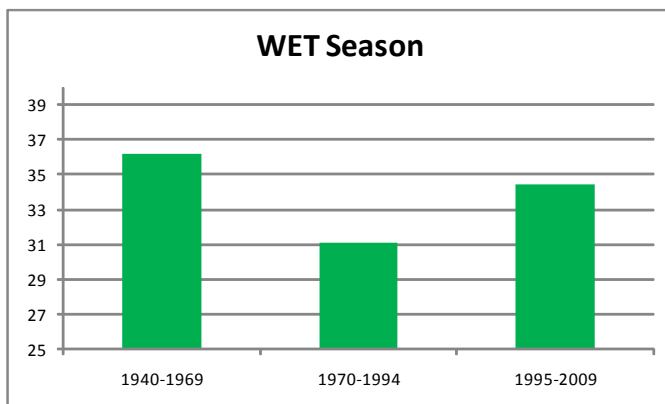
PLANT CITY NWS



	Annual Total (inches)
1940-1969	55.5
1970-1994	50.8
1995-2009	53.3
POR	53.6



	Dry Season Total (inches)	% of Annual Totals
1940-1969	19.3	35%
1970-1994	19.7	39%
1995-2009	18.9	35%
POR	19.5	36%



	Wet Season Total (inches)	% of Annual Totals
1940-1969	36.2	65%
1970-1994	31.1	61%
1995-2009	34.4	65%
POR	34.1	64%

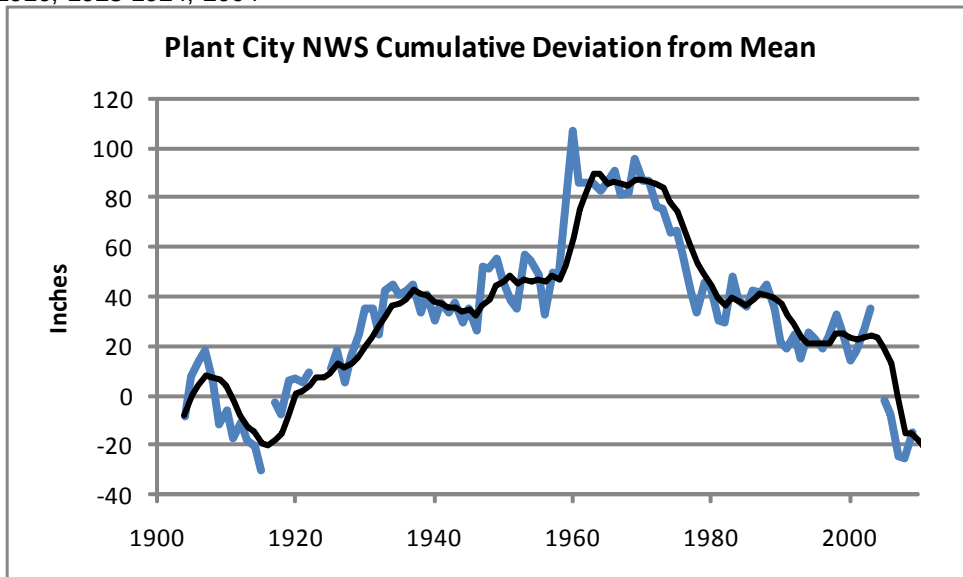
	Mean	Year Ending
Driest 2 yr mean annual	38.43	1909 (1978 2nd)
Driest 3 yr mean annual	42.60	1979
Driest 4 yr mean annual	44.74	1911 (1978 2nd)
Driest 5 yr mean annual	45.22	1978
Driest 10 year mean annual	47.97	1981

Wettest 2 yr mean annual	82.47	1960
Wettest 3 yr mean annual	72.58	1960
Wettest 4 yr mean annual	72.10	1960
Wettest 5 yr mean annual	65.13	1960
Wettest 10 year mean annual	59.62	1960

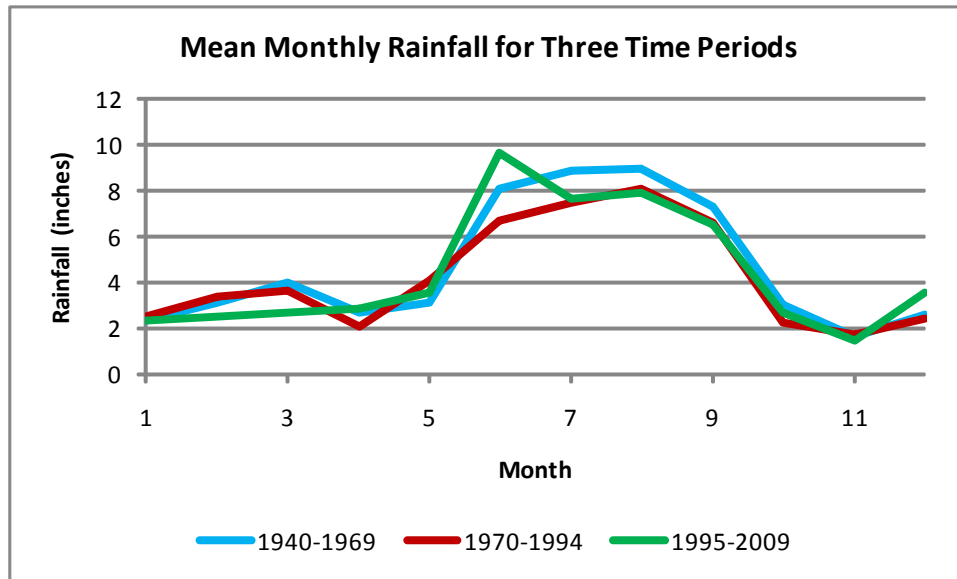
Period of Record from 1904 to 2009

Years deleted due to missing data:

1916, 1923-1924, 2004

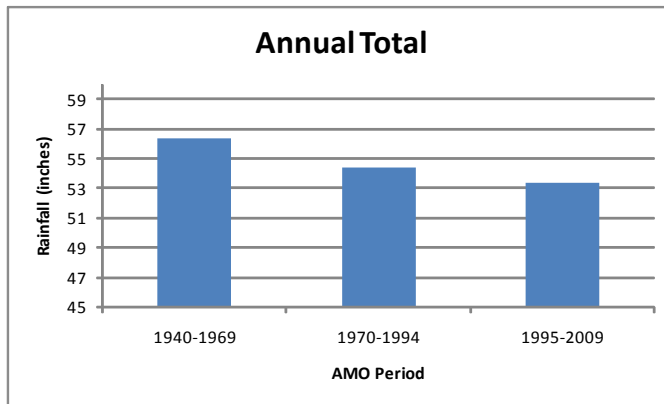


PLANT CITY NWS

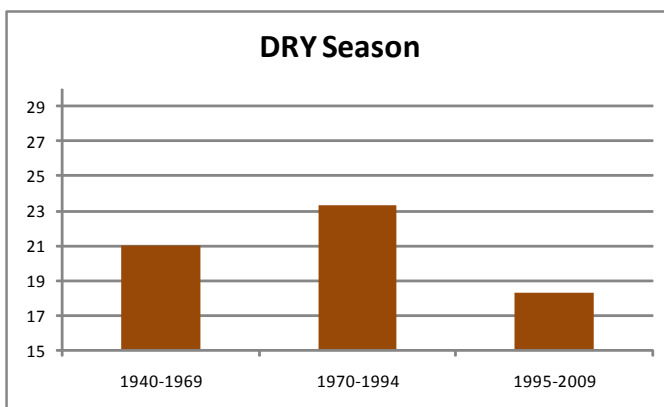


Month	1940-1969	1970-1994	1995-2009
1	2.36	2.47	2.37
2	3.08	3.34	2.49
3	4.01	3.62	2.67
4	2.66	2.06	2.89
5	3.13	4.09	3.58
6	8.03	6.70	9.61
7	8.89	7.43	7.66
8	8.98	8.11	7.92
9	7.28	6.62	6.54
10	3.00	2.28	2.71
11	1.63	1.73	1.45
12	2.56	2.44	3.58
Total	55.62	50.89	53.47

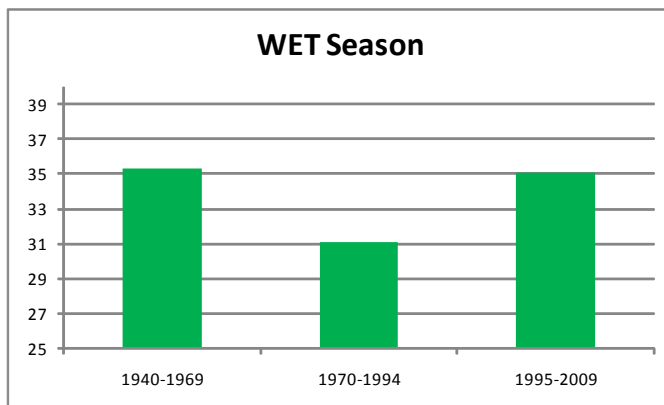
SAINT LEO NWS



	Annual Total (inches)
1940-1969	56.4
1970-1994	54.4
1995-2009	53.4
POR	54.7



	Dry Season Total (inches)	% of Annual Totals
1940-1969	21.0	37%
1970-1994	23.3	43%
1995-2009	18.3	34%
POR	20.2	38%



	Wet Season Total (inches)	% of Annual Totals
1940-1969	35.3	63%
1970-1994	31.1	57%
1995-2009	35.1	66%
POR	34.0	62%

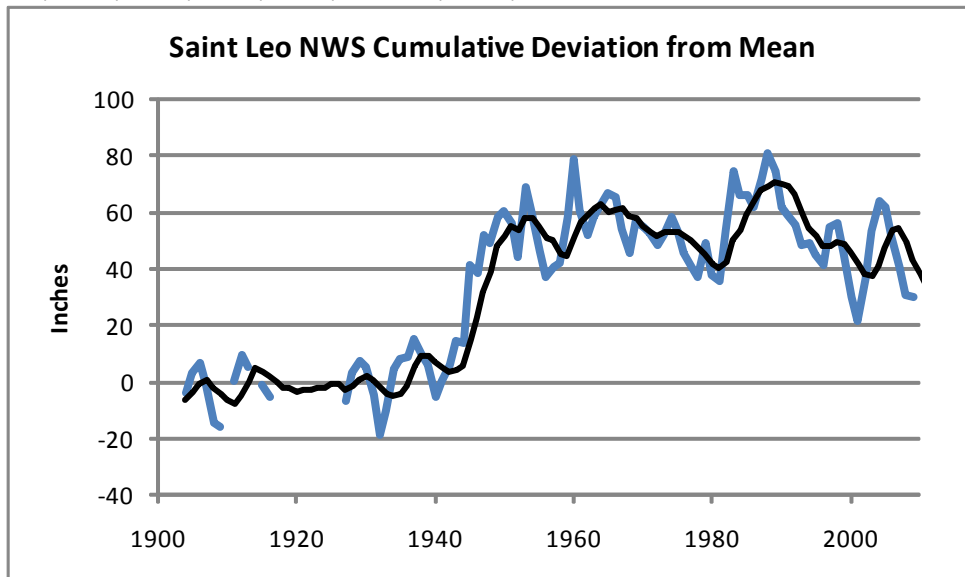
	Mean	Year Ending
Driest 2 yr mean annual	41.26	2000
Driest 3 yr mean annual	43.06	2001
Driest 4 yr mean annual	46.33	2001
Driest 5 yr mean annual	47.93	2009
Driest 10 year mean annual	50.95	2001

Wettest 2 yr mean annual	74.17	1983
Wettest 3 yr mean annual	68.75	2004
Wettest 4 yr mean annual	65.17	1960
Wettest 5 yr mean annual	63.92	1947
Wettest 10 year mean annual	61.23	1950

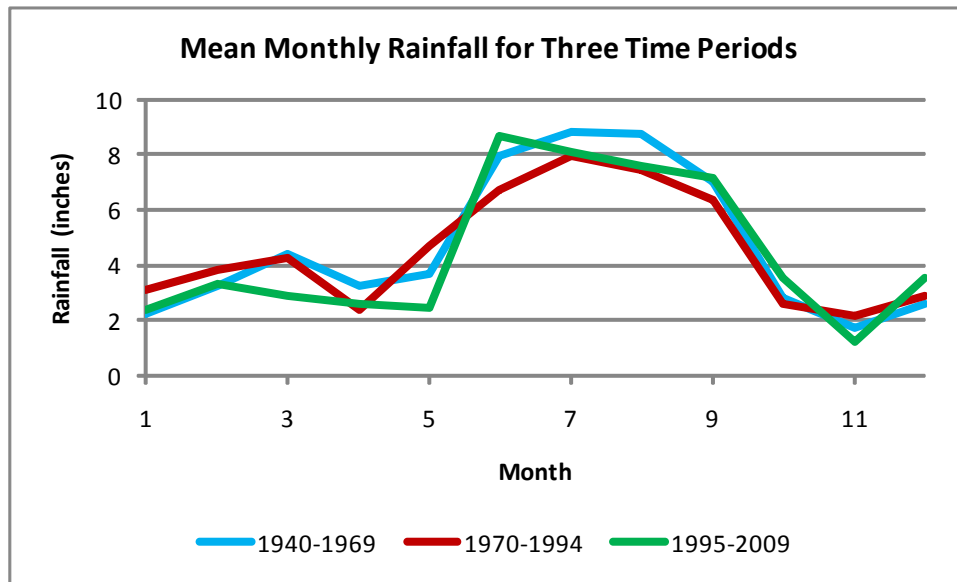
Period of Record from 1902 to 2009

Years deleted due to missing data:

1903, 1910, 1914, 1917, 1919, 1921-22, 1924, 1926

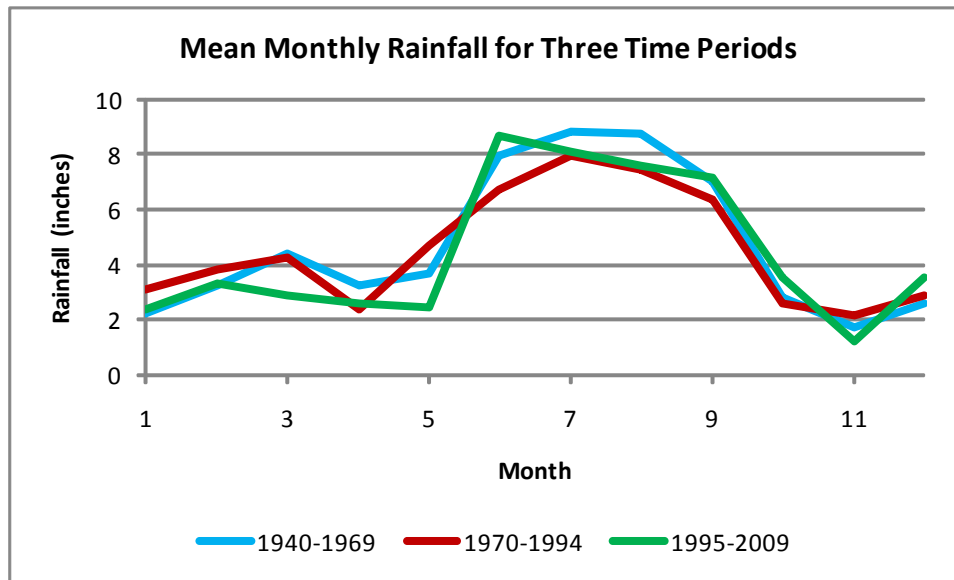


SAINT LEO NWS



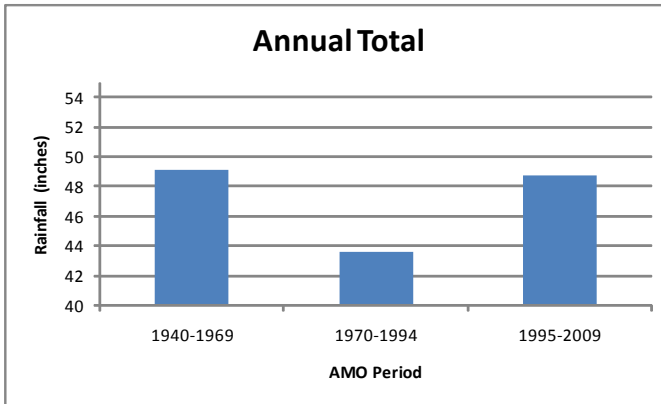
Month	1940-1969	1970-1994	1995-2009
1	2.22	3.13	2.37
2	3.28	3.83	3.30
3	4.41	4.27	2.85
4	3.27	2.40	2.63
5	3.67	4.68	2.46
6	7.95	6.72	8.69
7	8.82	7.93	8.08
8	8.72	7.48	7.61
9	7.04	6.38	7.14
10	2.79	2.57	3.57
11	1.74	2.17	1.25
12	2.60	2.89	3.55
Total	56.51	54.45	53.50

SAINT LEO NWS

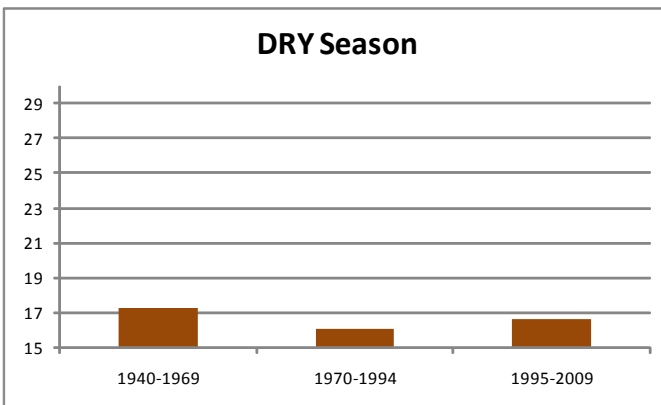


Month	1940-1969	1970-1994	1995-2009
1	2.22	3.13	2.37
2	3.28	3.83	3.30
3	4.41	4.27	2.85
4	3.27	2.40	2.63
5	3.67	4.68	2.46
6	7.95	6.72	8.69
7	8.82	7.93	8.08
8	8.72	7.48	7.61
9	7.04	6.38	7.14
10	2.79	2.57	3.57
11	1.74	2.17	1.25
12	2.60	2.89	3.55
Total	56.51	54.45	53.50

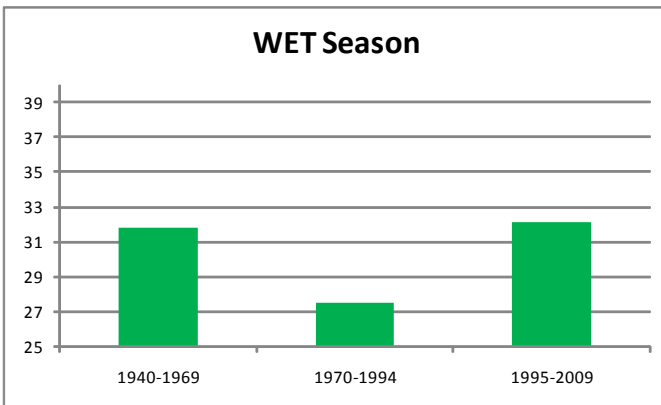
TAMPA INTERNATIONAL AIRPORT NWS



	Annual Total (inches)
1940-1969	49.1
1970-1994	43.6
1995-2009	48.7
POR	47.4



	Dry Season Total (inches)	% of Annual Totals
1940-1969	17.3	35%
1970-1994	16.1	37%
1995-2009	16.6	33%
POR	16.5	35%



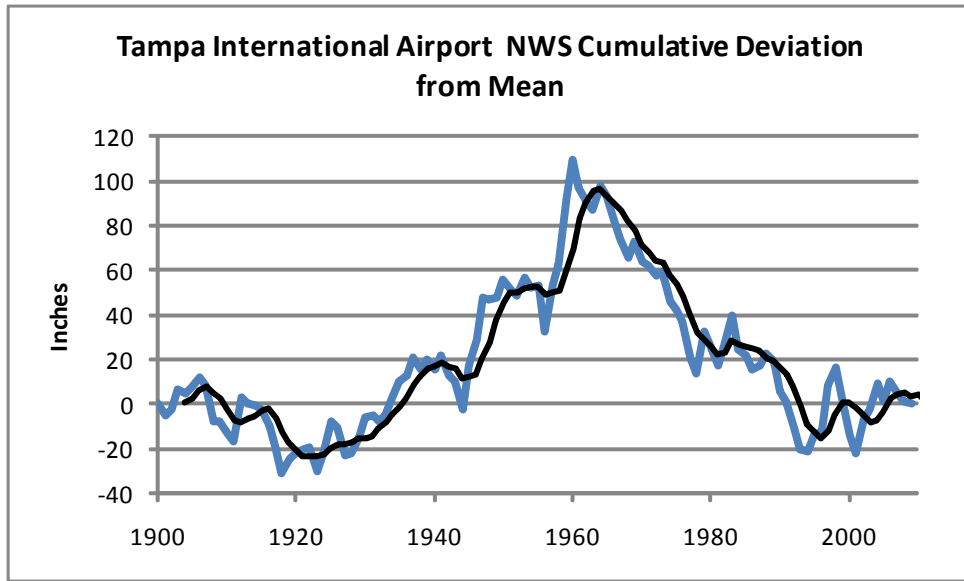
	Wet Season Total (inches)	% of Annual Totals
1940-1969	31.8	65%
1970-1994	27.5	63%
1995-2009	32.1	67%
POR	30.8	65%

	Mean	Year Ending
Driest 2 yr mean annual	32.09	2000
Driest 3 yr mean annual	34.64	2001
Driest 4 yr mean annual	37.52	1993
Driest 5 yr mean annual	38.19	1978
Driest 10 year mean annual	41.36	1993

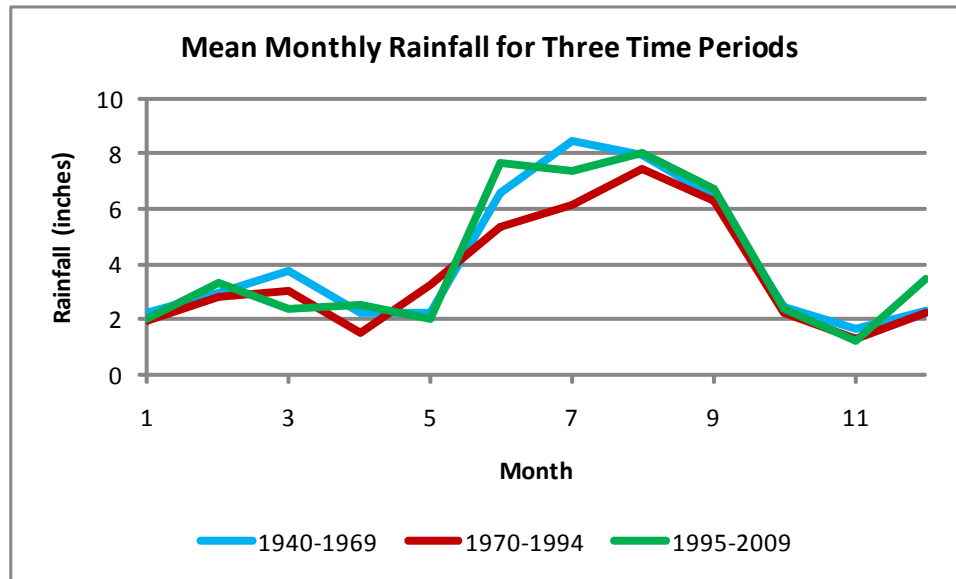
Wettest 2 yr mean annual	70.21	1960
Wettest 3 yr mean annual	67.12	1959
Wettest 4 yr mean annual	66.43	1960
Wettest 5 yr mean annual	60.15	1961
Wettest 10 year mean annual	52.76	1954

Period of Record from 1901 to 2009

Years deleted due to missing data: None

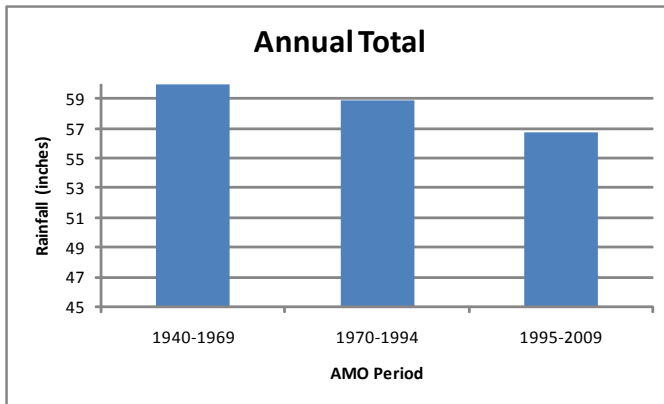


TAMPA INTERNATIONAL AIRPORT NWS

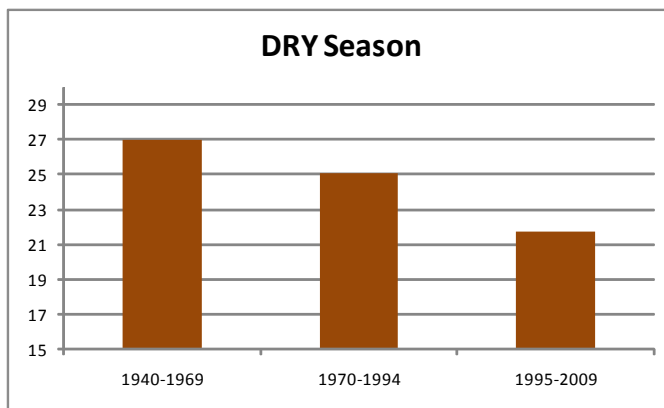


Month	1940-1969	1970-1994	1995-2009
1	2.21	1.94	2.00
2	2.94	2.81	3.29
3	3.76	3.05	2.38
4	2.21	1.54	2.50
5	2.27	3.28	2.05
6	6.56	5.34	7.67
7	8.45	6.16	7.37
8	7.95	7.48	8.04
9	6.44	6.32	6.69
10	2.44	2.23	2.35
11	1.64	1.32	1.21
12	2.29	2.21	3.44
Total	49.16	43.68	48.99

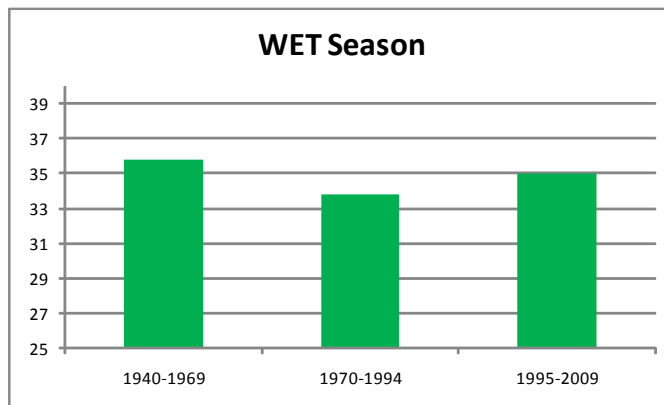
USHER TOWER NWS



	Annual Total (inches)
1940-1969	62.8
1970-1994	58.9
1995-2009	56.7
POR	59.2



	Dry Season Total (inches)	X% of Annual Totals
1940-1969	27.0	43%
1970-1994	25.1	43%
1995-2009	21.7	38%
POR	24.6	41%



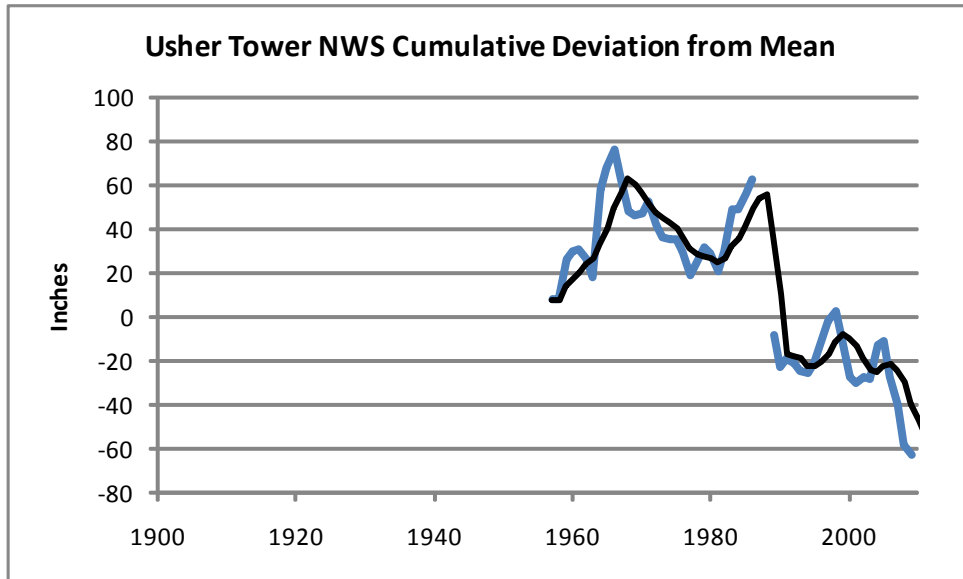
	Wet Season Total (inches)	X% of Annual Totals
1940-1969	35.8	57%
1970-1994	33.8	57%
1995-2009	35.0	62%
POR	34.7	59%

	Mean	Year Ending
Driest 2 yr mean annual	43.88	2008
Driest 3 yr mean annual	43.60	2008
Driest 4 yr mean annual	46.33	2009
Driest 5 yr mean annual	49.26	2009
Driest 10 year mean annual	53.20	2008

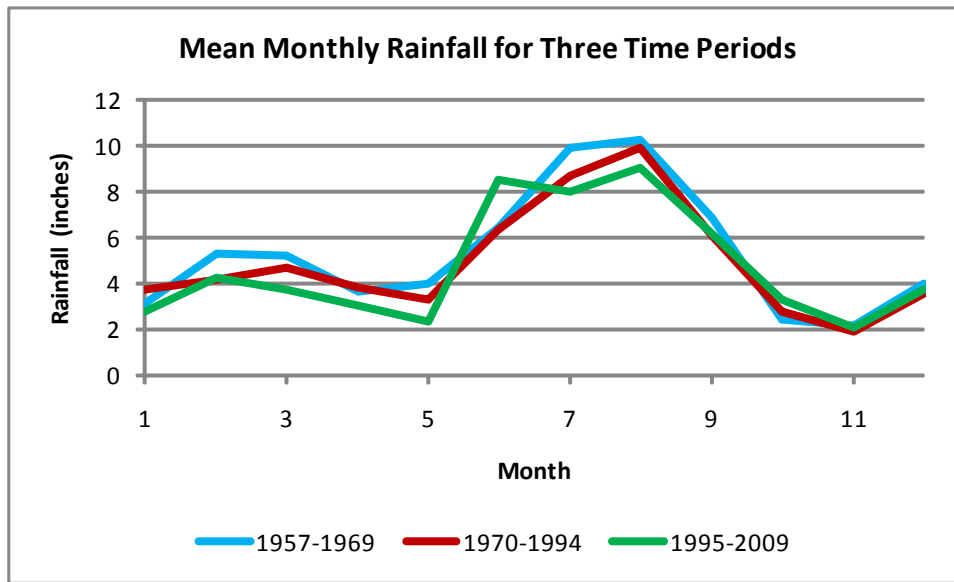
Wettest 2 yr mean annual	84.23	1965
Wettest 3 yr mean annual	78.68	1966
Wettest 4 yr mean annual	71.80	1966
Wettest 5 yr mean annual	68.34	1966
Wettest 10 year mean annual	66.89	1966

Period of Record from 1957 to 2009

Years deleted due to missing data: 1987-88

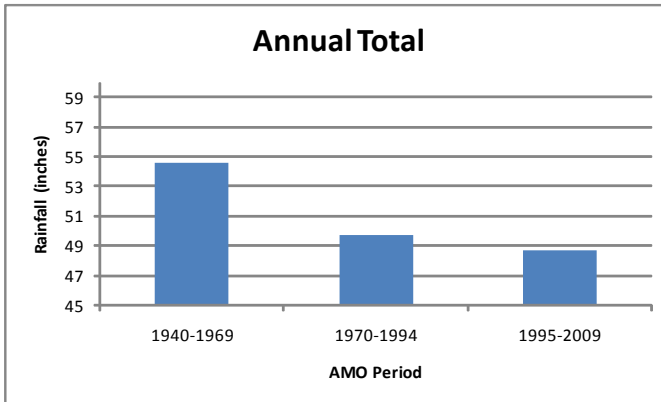


USHER TOWER NWS

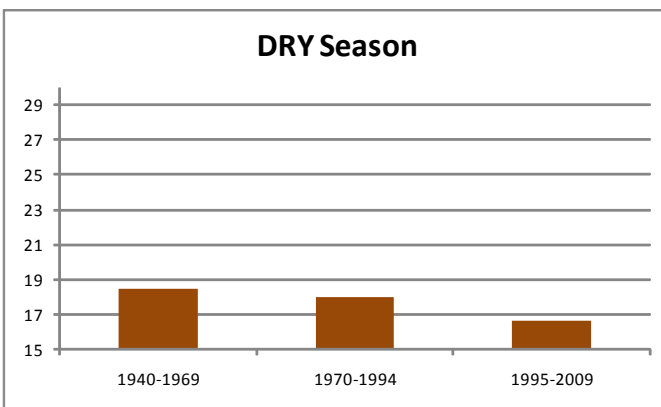


Month	1957-1969	1970-1994	1995-2009
1	3.12	3.70	2.76
2	5.30	4.13	4.26
3	5.21	4.65	3.75
4	3.59	3.80	3.05
5	3.98	3.30	2.30
6	6.44	6.33	8.49
7	9.87	8.72	7.98
8	10.24	9.87	9.06
9	6.83	6.10	6.19
10	2.42	2.76	3.27
11	2.15	1.93	2.04
12	3.95	3.59	3.72
Total	63.11	58.88	56.88

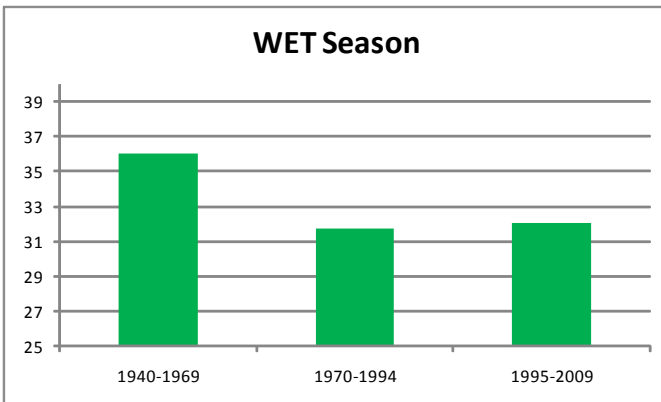
WAUCHULA NWS



	Annual Total (inches)
1940-1969	54.6
1970-1994	49.7
1995-2009	48.7
POR	51.8



	Dry Season Total (inches)	% of Annual Totals
1940-1969	18.5	34%
1970-1994	18.0	36%
1995-2009	16.6	33%
POR	17.9	34%



	Wet Season Total (inches)	% of Annual Totals
1940-1969	36.1	66%
1970-1994	31.8	64%
1995-2009	32.0	67%
POR	33.9	66%

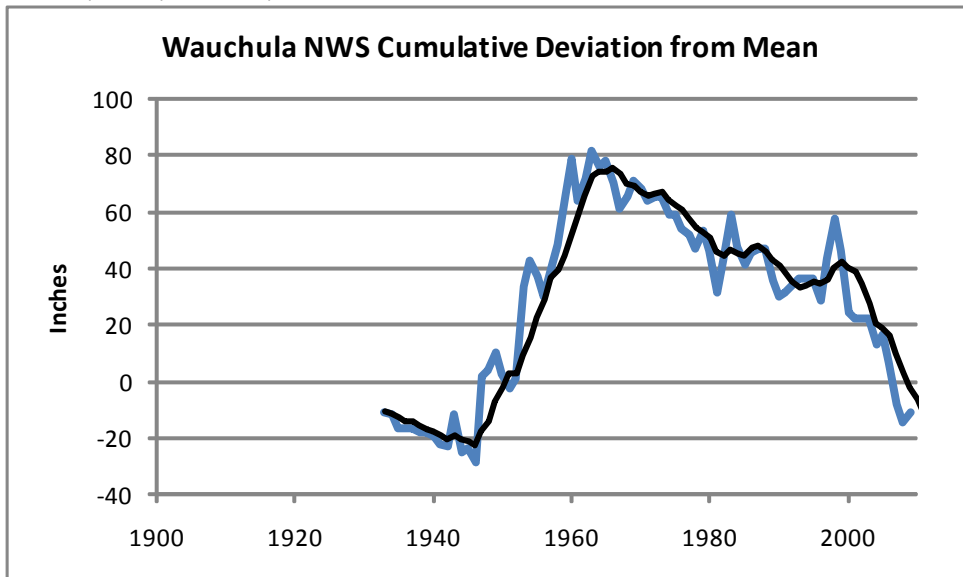
	Mean	Year Ending
Driest 2 yr mean annual	34.92	2000
Driest 3 yr mean annual	39.77	2001
Driest 4 yr mean annual	43.94	2007
Driest 5 yr mean annual	44.30	2008
Driest 10 year mean annual	48.37	1981

Wettest 2 yr mean annual	72.14	1954
Wettest 3 yr mean annual	66.55	1954
Wettest 4 yr mean annual	63.74	1960
Wettest 5 yr mean annual	59.83	1960
Wettest 10 year mean annual	59.20	1960

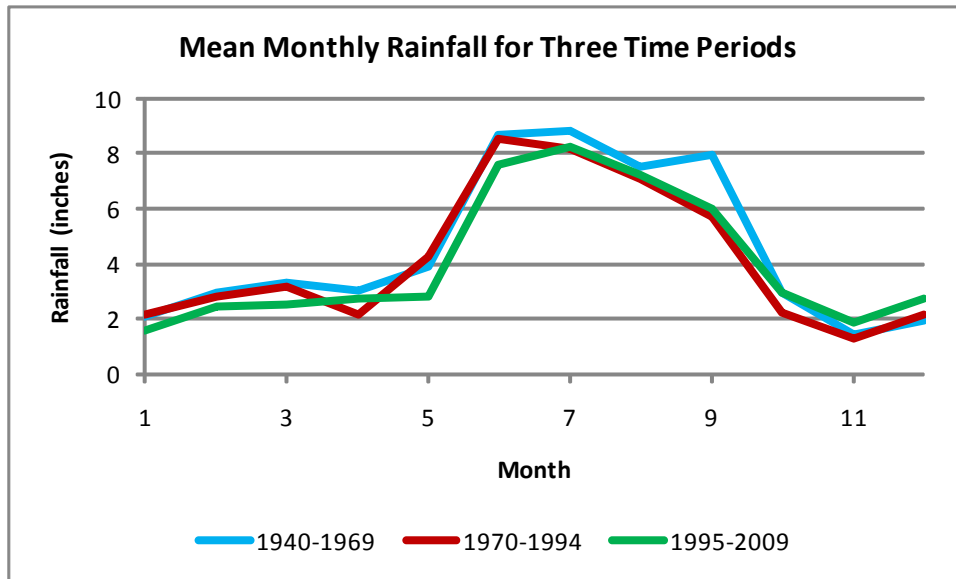
Period of Record from 1934 to 2009

Years deleted due to missing data:

1936-37, 1939, 1994-95, 2002

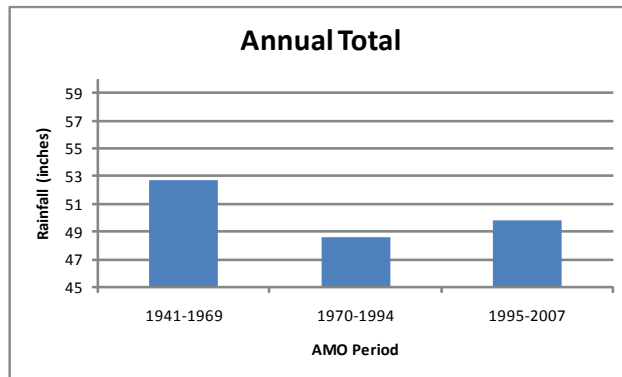


WAUCHULA NWS

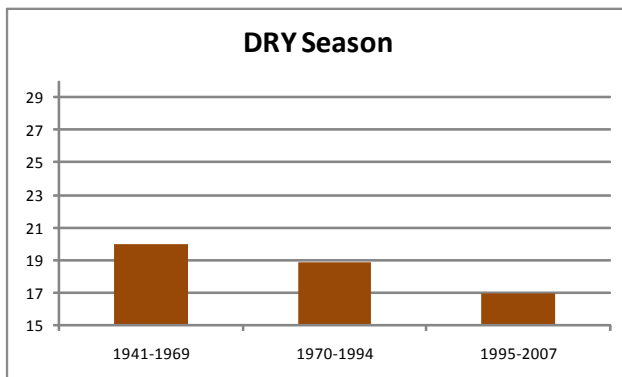


Month	1940-1969	1970-1994	1995-2009
1	2.07	2.16	1.56
2	2.99	2.78	2.43
3	3.31	3.16	2.50
4	3.04	2.19	2.75
5	3.87	4.26	2.83
6	8.69	8.56	7.58
7	8.86	8.20	8.24
8	7.56	7.06	7.26
9	7.98	5.68	6.03
10	2.98	2.27	2.93
11	1.46	1.32	1.85
12	1.98	2.15	2.71
Total	54.79	49.78	48.68

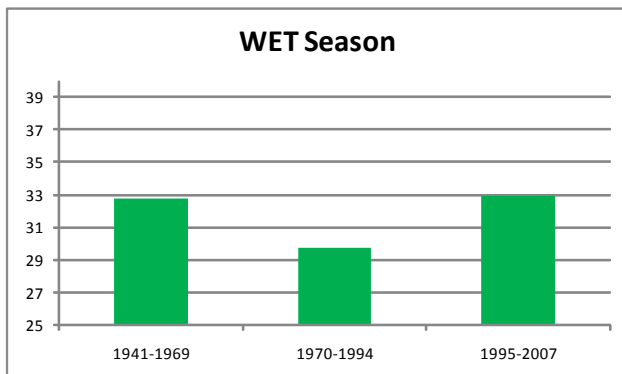
WINTER HAVEN NWS



	Annual Total (inches)
1940-1969	52.7
1970-1994	48.6
1995-2009	49.8
POR	50.6



	Dry Season Total (inches)	X% of Annual Totals
1940-1969	20.0	38%
1970-1994	18.9	39%
1995-2009	16.9	34%
POR	18.9	37%



	Wet Season Total (inches)	X% of Annual Totals
1940-1969	32.8	62%
1970-1994	29.7	61%
1995-2009	32.9	66%
POR	31.6	63%

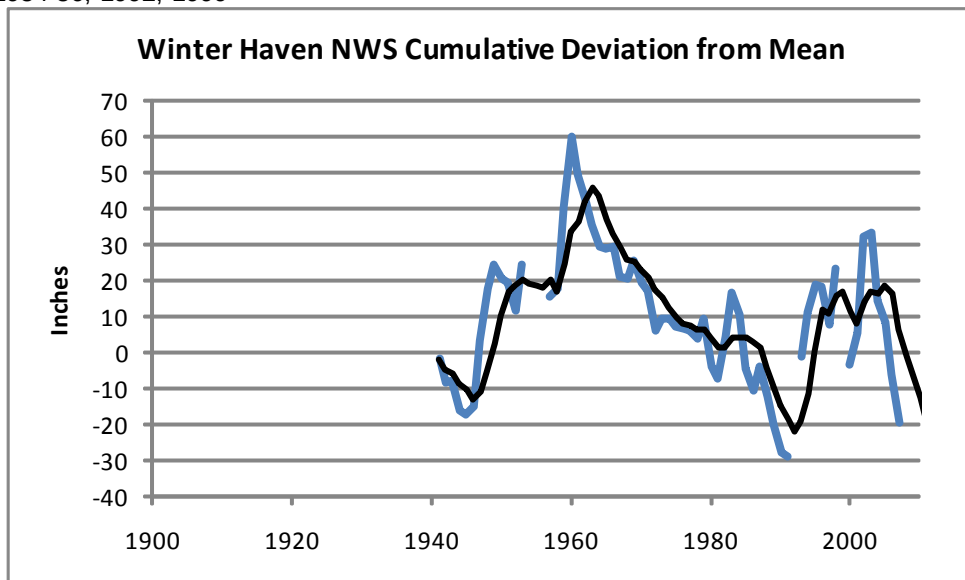
	Mean	Year Ending
Driest 2 yr mean annual	36.83	2007
Driest 3 yr mean annual	37.42	2006
Driest 4 yr mean annual	37.38	2007
Driest 5 yr mean annual	40.21	2007
Driest 10 year mean annual	46.35	1970

Wettest 2 yr mean annual	71.45	1960
Wettest 3 yr mean annual	65.21	1960
Wettest 4 yr mean annual	65.39	1960
Wettest 5 yr mean annual	60.27	1961
Wettest 10 year mean annual	53.63	1953

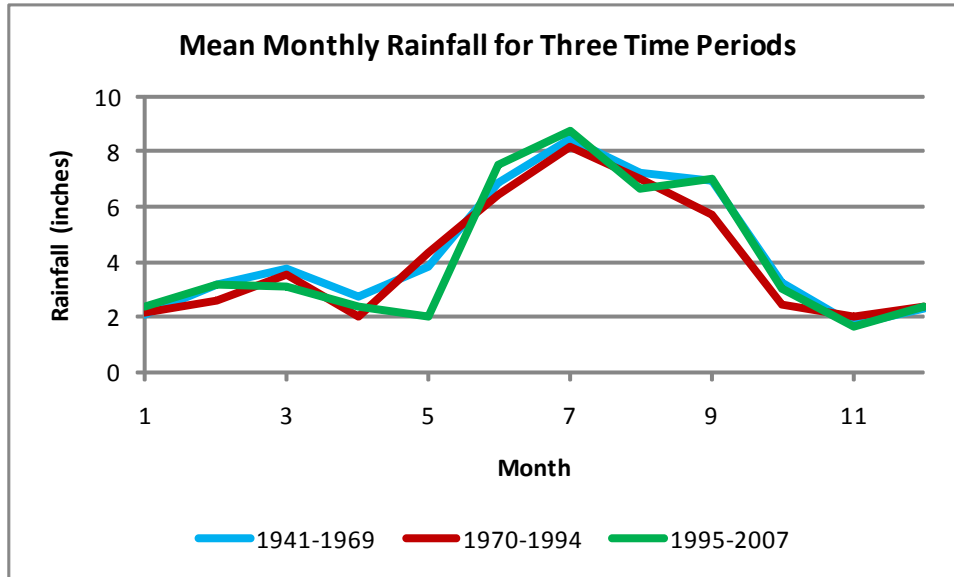
Period of Record from 1941 to 2007

Years deleted due to missing data:

1954-56, 1992, 1999



WINTER HAVEN NWS



Month	1941-1969	1970-1994	1995-2007
1	2.08	2.18	2.41
2	3.15	2.61	3.18
3	3.78	3.51	3.08
4	2.71	2.04	2.36
5	3.86	4.32	2.04
6	6.88	6.41	7.51
7	8.49	8.19	8.76
8	7.25	7.00	6.64
9	6.92	5.69	6.99
10	3.27	2.42	3.01
11	1.71	1.99	1.64
12	2.33	2.36	2.35
Total	52.42	48.73	49.96