

N42

1720

Av. Max

ave
minDays
over
100Days
Under
32Ave
RainHigh
TempLow
TempHigh
estLow
est

January

F

65.13

37.88

0

7.4

.78

C

18.40

3.26

1.98

February

F

71.65

40.20

0

2.78

.54

C

22.02

4.55

1.37

March

F

75.63

43.15

0

1.31

.83

C

24.23

6.19

2.10

April

F

83.23

48.51

.28

0.03

.21

C

28.46

9.17

.53

May

F

90.72

55.08

3.22

0

.14

C

32.62

12.82

.35

June

F

99.90

63.93

15.62

0

.09

C

37.72

17.73

.22

July

F

102.97

73.72

25.03

0

1.32

C

39.42

23.17

3.35

August

F

101.24

72.02

20.46

0

1.65

C

38.46

22.23

4.19

September

F

98.09

66.30

12.84

0

1.01

C

36.71

19.05

2.56

October

F

88.70

55.65

2.53

.03

.74

C

31.50

13.13

1.87

November

F

76.95

44.68

.19

.83

.62

C

24.97

7.04

1.57

December

F

68.96

38.44

0

5.78

.99

C

20.53

3.57

Average
Annual total
rainfall

8.81

Ulverston Maximum Temp.	1162	1164	1166	1168	1170	1172	1174
	1961	1859	1957	1955	1953	1951	1949
January	65.3	62.8	69.3	73.1	69.2	65.1	66.4
	69.0	73.8	66.1	60.6	73.2	67.9	55
	70.8	67.2	72.7	66.1	79.3	69.7	75.8
February	73.6	68.0	77.4	67.3	71.3	70.4	66.5
March	71.2	81.5	68.8	81.6	74.3	66.9	79.9
	76.6	80.0	75.7	77.6	77.1	76.4	75.5
April	90.0	86.0	82.7	81.4	88.7	80.9	87.2
	85.8	88.4	81.3	83.1	81.0	81.4	85.9
May	89.1	91.9	96.9	94.1	92.2	95.9	89.4
	91.0	88.3	85.7	88.3	85.6	91.4	89.1
	98.9	104.9	100.8	102.3	98.1	98.3	99.3
June	101.9	102.3	101.1	98.6	99.7	97.6	98.8
July	102.9	104.7	104.0	101.0	101.8	103.6	98.7
	102.5	103.7	105.3	99.1	102.3	103.5	101.1
	105.8	102.1	100.1	101.7	100.4	104.2	103.6
August	99.0	96.8	101.2	97.3	103.1	100.1	102.1
September	96.7	100.2	96.8	103.2	100.2	101.8	95.7
	94.4	95.7	100.3	99.9	102.8	100.1	99.4
October	87.7	86.1	87.3	87.8	91.4	97.5	95.1
	88.0	88.0	82.3	93.0	89.4	89.4	84.6
November	80.2	77.9	77.0	79.4	81.5	70.9	83.2
	71.9	77.1	69.8	75.7	80.0	74.1	86.0
December	70.2	67.0	76.3	71.6	70.5	64.6	76.6
	65.6	65.8	72.1	73.1	68.0	65.9	66.8

Ave. Month	1960	1970	1975	1977	1978	1979	1980	1981	1982
	1971	1977	1975	1973	1971	1969	1967	1965	1963
January	68.9	66.8	73.1	67.3	70.7	69.1	66.8	62.0	65.5
February	58.9	66.1	68.9	65.6	70.5	70.7	70.0	68.7	65.2
March	73.4	68.4	75.0	73.1	76.9	74.7	73.9	63.7	68.6
April	69.3	76.9	71.3	69.9	72.5	67.4	74.5	70.0	77.2
May	72.1	76.6	75.8	78.3	86.5	73.7	74.9	77.1	72.3
June	71.8	72.8	75.5	67.2	81.5	74.0	79.4	72.2	75.4
July	82.6	81.8	80.6	85.6	87.6	78.9	82.0	84.8	80.5
August	83.8	85.5	76.2	81.0	83.2	85.0	77.3	81.9	81.5
September	86.1	91.7	92.4	No Entry	91.9	93.6	91.2	93.5	90.7
October	89.5	85.4	90.1	93.6	87.1	93.3	90.4	89.1	94.0
November	103.0	104.3	100.9	104.7	99.6	100.1	101.1	100.1	98.2
December	101.3	101.9	99.5	101.2	98.5	95.8	95.6	93.1	95.4
1980-1982	106.2	105.1	100.1	101.1	105.1	103.7	101.4	103.0	104.7
1980-1987	104.6	103.0	102.7	103.19	103.9	102.5	103.0	103.0	104.7
1980-1987	102.3	102.8	102.4	102.1	99.3	101.0	97.5	101.4	98.8
1980-1987	99.5	102.9	104.1	102.4	97.4	104.9	103.3	101.3	98.9
1980-1987	99.5	95.7	92.9	96.9	97.2	95.4	99.0	95.6	95.2
1980-1987	103.2	98.3	99.5	98.9	97.6	99.1	94.6	93.6	100.3
1980-1987	89.6	90.2	86.1	85.7	81.5	84.8	90.1	86.8	91.0
1980-1987	91.9	89.5	88.6	91.7	82.1	84.4	91.2	93.0	90.8
1980-1987	79.76	70.5	77.2	76.4	70.7	78.9	76.2	77.6	Colif
1980-1987	75.3	80.2	78.1	77.0	76.2	74.0	80.8	77.0	75.0
1980-1987	75.87	62.2	70.4	65.5	65.7	68.0	67.8	69.4	67.2
1980-1987	73.1	73.7	69.6	72.6	64.0	70.3	60.7	65.9	70.7

Med 1978

Average Minimum Temp.	1762	1760	1758	1756	1754	1752	1750
January	196.1 38.5 40.5 41.8	1959 34.6 39.8 36.3	1957 37.0 42.5 43.6	1955 40.2 37.3 35.6	1953 38.8 41.0 46.1	1951 37.8 37.9 38.4	1949 34.2 31.5 42.3
February	41.7	39.0	48.5	35.9	36.8	41.1	36.8
March	39.2 43.3	44.7 45.3	43.9 46.1	44.9 44.0	45.6 44.0	40.7 44.5	44.7 41.0
April	52.0 50.7	48.7 53.3	50.3 48.8	48.9 47.4	52.8 48.1	50.0 50.6	51.7 50.2
May	54.6 54.4 62.6	54.4 53.2 67.5	60.4 53.6 67.1	58.2 54.1 68.7	58.3 52.8 64.4	60.2 56.5 62.2	53.5 52.9 61.7
June	67.8	67.9	67.7	63.1	63.9	62.7	64.5
July	72.7 74.6 76.3	74.8 75.9 74.5	72.2 75.6 73.5	71.8 69.4 68.7	74.6 74.2 70.1	71.8 74.0 72.9	72.8 73.0 71.0
August	72.5	70.6	73.5	71.5	71.2	72.0	68.3
September	70.9 64.3	68.5 61.5	66.8 67.8	69.0 64.8	67.2 64.7	68.5 66.5	61.4 71.2
October	55.3 53.7	55.5 56.0	59.2 58.0	53.8 58.2	55.4 56.9	55.9 56.3	58.9 52.7
November	47.7 43.7	45.8 48.3	44.3 43.0	44.8 44.1	44.6 48.4	41.4 43.9	48.5 44.7
December	42.0 40.3	36.5 40.4	39.5 40.5	39.1 38.4	37.8 37	35.6 37.9	42.4 36.6

	1970	1971	1972	1973	1974	1975	1976	1977	1978
Min	1970	1971	1972	1973	1974	1975	1976	1977	1978
January	41.9	42.1	39.0	38.5	34.3	36.9	37.5	35.6	34.2
	34.9	41.2	38.8	35.4	35.8	43.2	36.8	39.3	35.4
	44.9	40.7	44.6	37.9	40.1	43.1	44.4	36.7	34.3
February	37.2	41.4	36.3	41.6	37.6	37.3	39.8	39.1	45.5
	42.8	48.1	43.3	45.3	48.2	42.3	42.1	43.7	41.2
March	42.2	40.1	41.8	39.2	41.5	40.6	44.5	39.8	42.3
	48.6	47.5	48.0	49.0	49.0	41.5	46.0	49.4	48.1
April	47.1	49.0	43.3	47.2	46.0	48.0	44.5	49.4	47.4
	51.9	54.8	57.9	No Entry	56.3	54.8	53.5	57.4	53.0
May	55.3	52.5	53.2	57.1	51.8	55.6	55.8	52.6	57.0
	64.6	68.8	63.5	67.6	65.8	61.7	62.4	63.5	61.2
June	65.0	64.7	61.0	64.7	61.5	59.6	62.4	57.5	58.7
	76.9	74.5	72.9	73.3	74.5	74.1	71.0	74.5	76.5
July	70.7	75.2	74.9	73.1	73.9	74.1	74.5	73.0	74.2
	72.7	71.1	70.8	70.8	70.5	76.6	66.9	74.0	71.7
August	67.8	78.4	71.9	70.1	70.3	76.8	72.1	73.2	72.4
	65.7	66.2	64.3	66.6	66.0	65.2	63.6	68.2	64.4
September	69.1	68.8	66.4	63.2	65.8	69.0	64.3	64.0	67.9
	56.5	58.8	54.6	57.8	57.3	49.4	52.4	54.1	58.8
October	54.4	61.0	53.4	54.5	51.5	51.6	54.8	56.1	58.3
	43.4	44.1	46.2	43.8	42.5	41.4	44.2	45.0	Colif
November	40.1	46.9	43.6	42.3	41.0	47.3	45.4	50.1	44.8
	40.6	35.8	39.3	36.2	37.2	38.5	34.9	37.7	38.6
December	38.2	44.1	38.2	37.8	36.5	38.3	35.2	41.9	37.2

[illegible]

Days over 100"	1762	1760	1750	1754	1757	1752	1750
	1961	1959	1957	1955	1953	1951	1949
January	φ	φ	φ	φ	φ	φ	φ
	φ	φ	φ	φ	φ	φ	φ
	φ	φ	φ	φ	φ	φ	φ
February	φ	φ	φ	φ	φ	φ	φ
	φ	φ	φ	φ	φ	φ	φ
	φ	φ	φ	φ	φ	φ	φ
March	φ	φ	φ	φ	φ	φ	φ
	φ	φ	φ	φ	φ	φ	φ
	φ	φ	φ	φ	φ	φ	φ
April	4	φ	1	φ	φ	φ	φ
	φ	1	φ	φ	φ	φ	φ
	3	5	15	5	φ	6	φ
May	1	φ	φ	1	φ	5	4
	12	22	18	21	11	14	17
	16	17	21	12	17	10	13
June	26	28	28	21	24	29	14
	23	28	29	13	24	27	21
	31	23	17	23	18	28	26
August	15	8	21	8	24	23	22
	12	16	16	26	17	15	5
	6	11	15	16	25	19	15
September	φ	1	φ	φ	1	11	6
	φ	1	1	3	5	3	φ
	φ	φ	φ	φ	φ	φ	φ
October	φ	φ	φ	φ	φ	φ	φ
	φ	φ	φ	φ	φ	φ	φ
	φ	φ	φ	φ	φ	φ	φ
November	φ	φ	φ	φ	φ	φ	φ
	φ	φ	φ	φ	φ	φ	φ
	φ	φ	φ	φ	φ	φ	φ
December	φ	φ	φ	φ	φ	φ	φ
	φ	φ	φ	φ	φ	φ	φ
	φ	φ	φ	φ	φ	φ	φ

	1980	1978	1976	1974	1972	1970	1968	1966	1964
Days under 32°	1977	1975	1973	1971	1969	1967	1965	1963	
January	3	2	8	5	12	7	5	11	9
	12	5	6	6	12	2	8	7	11
February	1	3	1	4	2	1	φ	6	10
	2	φ	75.5	φ	6	3	3	6	φ
March	φ	φ	2	2	φ	φ	1	1	5
	1	5	φ	2	3	4	1	1	2
April	φ	φ	φ	φ	φ	1	φ	φ	φ
	φ	φ	φ	φ	φ	φ	φ	φ	φ
May	φ	φ	φ	No Entry	φ	1	φ	φ	φ
	φ	φ	φ	φ	φ	1	φ	φ	φ
June	φ	φ	φ	φ	φ	φ	φ	φ	φ
	φ	φ	φ	φ	φ	φ	φ	φ	φ
July	φ	φ	φ	φ	φ	φ	φ	φ	φ
	φ	φ	φ	φ	φ	φ	φ	φ	φ
August	φ	φ	φ	φ	φ	φ	φ	φ	φ
	φ	φ	φ	φ	φ	φ	φ	φ	φ
September	φ	φ	φ	φ	φ	φ	φ	φ	φ
	φ	φ	φ	φ	φ	φ	φ	φ	φ
October	φ	φ	φ	φ	φ	φ	φ	φ	φ
	φ	φ	φ	φ	φ	φ	φ	φ	φ
November	φ	φ	1	1	φ	1	φ	φ	Calif
	4	φ	2	1	2	φ	1	φ	φ
December	2	10	4	7	7	8	12	8	5
	4	φ	7	7	10	6	8	3	10

Days Under 32°	1962	1960	1958	1956	1954	1952	1950
	1961	1959	1957	1955	1953	1951	1949
January	8 3 2	15 4 6	7 2 φ	1 7 13	6 3 φ	6 10 6	16 18 1
February	1 4 φ	5 φ φ	φ 1 φ	9 φ 1	8 φ φ	2 2 φ	8 φ 2
March	φ φ φ	φ φ φ	φ φ φ	φ φ φ	φ φ φ	φ φ φ	φ φ φ
April	φ φ φ	φ φ φ	φ φ φ	φ φ φ	φ φ φ	φ φ φ	φ φ φ
May	φ φ φ	φ φ φ	φ φ φ	φ φ φ	φ φ φ	φ φ φ	φ φ φ
June	φ φ φ	φ φ φ	φ φ φ	φ φ φ	φ φ φ	φ φ φ	φ φ φ
July	φ φ φ	φ φ φ	φ φ φ	φ φ φ	φ φ φ	φ φ φ	φ φ φ
August	φ φ φ	φ φ φ	φ φ φ	φ φ φ	φ φ φ	φ φ φ	φ φ φ
September	φ φ φ	φ φ φ	φ φ φ	φ φ φ	φ φ φ	φ φ φ	φ φ φ
October	φ φ φ	φ φ φ	φ φ φ	φ φ φ	φ φ φ	φ φ φ	φ φ φ
November	φ φ 2	φ φ 9	1 φ 4	3 2 2	φ 2 9	4 φ 10	1 φ φ
December	2	3	1	3	8	7	7

Total		1961	1959	1957	1955	1953	1951	1949
Rainfall		1961	1959	1957	1955	1953	1951	1949
January		1.66	2.61	0	1.14	.83	.45	T
		.54	0	1.76	2.55	0	1.25	2.19
February		.52	.10	.51	.38	.07	T	.33
		.24	1.19	T	.09	1.01	.24	.06
March		.53	.02	1.43	0	1.65	2.66	.11
		.35	0	1.10	0	.66	.03	.37
April		0	0	.55	T	0	.75	T
		0	0	.44	0	.13	1.41	.22
May		0	0	0	0	.26	0	0
		T	0	1.55	0	T	0	0
June		1.20	0	.16	.10	T	.05	0
		.01	.90	0	T	0	0	T
July		.68	2.96	2.38	.43	1.98	.68	1.74
		1.09	1.55	.52	3.40	1.12	1.16	.66
August		.03	.81	3.97	T	.46	.55	.06
		4.75	3.42	.94	2.19	1.23	5.34	.63
September		3.89	.49	1.94	.70	1.45	.59	.70
		.29	1.49	0	0	0	T	1.03
October		.22	.42	1.53	.54	.09	0	0
		.54	1.76	2.33	.93	.18	.33	.33
November		.67	0	.36	0	T	2.82	.44
		.43	.18	.06	.07	.02	.77	.27
December		1.68	.60	0	.15	T	1.07	T
		1.59	4.37	.24	.14	.02	.65	1.59
Annual Total		11.08	8.01	12.83	3.44	7.60	9.62	3.38
Annual Total		9.83	14.86	8.94	9.37	4.37	11.18	3.54

$$\frac{282.23''}{32 \text{ yrs}} = 8.81$$

	1980	18	16	74	72	70	68	66	67
Rainfall	1977	77	75	73	71	69	67	65	63
January	1.14	1.43	∅	No Entry	∅	∅	.40	1.27	.09
	2.97	.44	.04	.21	∅	.96	.07	.37	.09
	1.87	1.39	∅	.01	T	.37	1.43	1.57	.23
February	.08	∅	.02	1.87	.26	.50	∅	1.68	1.44
March	1.52	1.59	1.56	.32	∅	1.64	1.09	T	.88
	2.21	.25	.34	1.60	∅	.54	.50	.38	1.34
April	.51	∅	1.35	∅	∅	.18	T	∅	.02
	∅	.06	.51	T	.02	.09	.61	.74	.23
May	.01	.22	.71	No Entry	.12	∅	∅	∅	∅
	.19	.09	∅	∅	∅	.58	.70	.03	∅
June	T	∅	∅	∅	.03	∅	∅	.11	.07
	.14	∅	∅	.04	∅	∅	.05	.19	∅
July	.31	.57	1.51	.23	2.29	2.75	1.89	1.69	1.82
	1.41	.70	.62	.36	.09	1.39	3.07	.88	.47
	.56	.32	∅	.21	1.28	2.40	3.41	.75	1.49
August	3.04	.56	∅	.74	3.74	2.67	2.04	.73	4.48
September	.95	.85	1.80	5.18	.21	2.26	∅	1.61	2.49
	.20	.32	.07	∅	.56	.82	2.38	.11	1.08
October	∅	2.65	.23	1.23	3.79	.77	.03	1.10	1.28
	∅	1.19	∅	∅	.45	.09	.04	.03	1.61
November	∅	2.85	.48	.15	1.16	.14	.49	.47	Calif
	.17	∅	2.57	.66	T	1.12	1.10	.38	1.61
December	.03	2.87	.84	.32	.53	.63	1.41	.34	.75
	.00	1.39	.19	∅	.23	.53	3.94	5.67	T
Total year	6.90	14.75	6.48	8.27	9.41	10.82	10.15	8.91	10.04
	10.41	5.52	4.36	5.48	5.35	9.29	14.5	11.19	12.35

[illegible]

1678 feet
above sea level

WEATHER SUMMARY
ORGAN PIPE CACTUS NATIONAL MONUMENT

File Code N-42

ORPI 3/75

Month	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
JAN.	1972																															
	Temp. Minimum	32	35	34	29	31	37	27	34	32	28	35	29	32	34	42	34	34	29	31	32	34	35	32	38	31	42	37	34	41	43	36
	Maximum	70	67	68	59	59	70	67	67	65	69	72	74	74	73	78	77	74	74	72	72	73	75	76	77	77	74	74	70	68	67	64
	% Relative Humidity	25	28	35	32	30	17	24	24	31	24	17	14	15	21	18	23	27	17	37	22	23	24	18	21	14	72	21	10	17	27	29
	Rainfall																															
FEB.	Temp. Minimum	27	33	37	37	34	39	42	43	47	40	35	49	34	31	35	36	36	42	45	45	41	53	47	38	39	41	47	48	43		
	Maximum	62	59	71	71	69	69	73	75	72	72	74	74	76	75	73	75	80	84	82	83	84	81	82	82	84	85	89	88	83		
	% Relative Humidity	35	18	13	16	31	32	28	18	24	25	19	20	14	22	23	19	16	15	21	20	19	18	13	14	14	19	17	14	10		
	Rainfall																															
MAR.	Temp. Minimum	41	43	41	48	51	52	53	50	52	51	51	48	47	52	49	56	62	50	48	51	49	59	47	46	47	44	52	45	33	43	37
	Temp. Maximum	79	82	85	89	93	92	91	92	94	95	96	92	92	90	89	91	92	91	88	86	91	89	83	87	80	80	75	71	71	72	78
	% Relative Humidity	12	14	14	25	23	25	24	11	9	8	14	15	11	10	14	9	6	18	24	17	16	27	23	11	18	21	13	14	11	11	10
	Rainfall																															
APR.	Temp. Minimum	40	45	49	49	55	56	52	47	49	49	64	59	53	47	43	44	47	51	43	49	49	45	47	42	49	46	54	45	49	52	
	Maximum	86	87	90	91	98	97	89	91	93	92	89	87	84	73	80	88	86	79	74	74	85	90	92	92	92	87	88	91	91	92	
	% Relative Humidity	10	19	19	14	7	12	9	11	7	15	22	20	30	15	15	12	12	22	20	18	9	2	6	6	17	5	4	6	16	11	
	Rainfall																															
MAY.	Temp. Minimum	59	51	49	57	56	51	51	49	52	52	53	55	56	70	63	57	58	58	59	52	49	44	51	52	57	51	64	71	69	60	62
	Maximum	92	94	99	97	88	85	84	90	90	90	92	95	98	97	97	96	92	90	89	79	84	87	92	91	90	94	95	99	96	92	93
	% Relative Humidity	11	6	6	12	23	17	28	15	14	16	6	4	9	10	12	12	16	31	31	20	15	15	12	13	22	8	17	30	39	27	36
	Rainfall																															

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ORPI 3/75

97.

ELEV.
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file Code N-42

(E)

Month	Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
JAN.	Temp. Minimum	33	35			35	35	34	29	29	43	35	35	35	47	37	37	37	42	31	42		23	34	35	38	30	7	30	40	34	36
	Maximum	54	59	60	59	5	5	58	60	66	64	68	71	78	79	77	74	69	71	69	62	58	56	60	68	70	68	61		72	68	65
	62		48	57	63		9	61	48	44	49	38	28	35	33	35	47	38		42	47	48	51	41	31	23		36	23	23	29	
	Rain.																					.10									.10	
FEB.	T	33	37	40	37	43	52	45	38	39	40	51	46	37	37	39	43	34	37	39	51	51	48	39	40	47	38	40	44			
		66	71	73	72	74	7	71	69	70	70	67	64	79	65	67	62	63	70	74	73	58		65	71	74	77	76	73			
	7	27	22		38	34	34	46	30	34	38	89		69	43	42	69	50		31	89	89	78	48	50	46	25	28	43			
													.03	.01	.09	.06	.27	.01				.05	.52	.82	.01							
MAR.	Temp. Minimum	42	41	41	36	36	36	47	38	40	39	39	46	38	38	31	42	42	41	42	41	45	36	36	36	39	43	37			36	
	Max. in	75	72	70	70	69	67	65	62	59	65	61	62	59	57	64	4	73	72	72	70	64	64	62		74		66	67	37	69	
	Humidity	31	42	28	43	42	41	50	65	72	40	58	52	41	57		34	39	35	44		35	89	45	33		54	40	46	34	30	
	Rainfall	1.60						.27	T	31	.01		.22	.08	.01	.08						.08	.06					.14		34		
APR.		39	43	41	50	53	37	44	61	42	44	48	45	44	46	41	54	44	54	44	47	40	48	43	41	50	52	56	54	58	53	
		73	72	71	71	70	79	81	79	79	86	86	88	86	82	75	79	81	79	75	75	76	83	84	87	90	95	97	95	77	74	
	m t	24	32	33	20	22	23	25	25	19	19	11	13	18	22	19	21	7	19	20	17	15	19	6		12	8	13	28	51		
	Rainfall	T																													T	
MAY.		47	5	51	51	60	42	49	50	53	6	59	34		53	53	59	66	62	64	64	58	56	57	56		64	57	63	6	68	6
	Hum.	78	88	92	71	72	79	89	95	99	100	99	95	94	93	90	97	99	102	99	95	93	94	94	93	90	89	99	103	105	101	4
		24	12	10	39	44	28	18	19	7	7	13	17	15	22	19	16	14	13	19	19	19	17	15	13	20	35	26	2	13	24	

WEATHER SUMMARY
ORGAN PIPE CACTUS NATIONAL MONUMENT

ORPI 3/75

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WEATHER SUMMARY
ORGAN PIPE CACTUS NATIONAL MONUMENT

ORPI 3/75

[illegible]

ELEV. 1678 feet
above sea level

WEATHER SUMMARY
ORGAN PIPE CACTUS NATIONAL MONUMENT

~~File~~ Code N-42

ORPI 3/75

Month	YEAR 1974	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
JAN.	Temp. Minimum	36	36	26	24	37	37	44	44	42	34	36	34	34	48	38	39	44	52	49	47	54	38	39	42	39	33	40	36	32	29	32
	Maximum	66	59	56	58	60	60	58	62	54	61	61	65	71	77	77	78	78	75	77	77	75	75	61	65	67	67	65	64	70	69	74
	% Relative Humidity	58	35	35	50	58	52	44	68	71	49	41	57	45	37	45	30	45	36	23	29	41	33	24	28	34	29	30	29	30	28	19
	Rainfall	—																														
FEB.	Temp. Minimum	35	41	43	49	35	34	34	40	42	29	31	37	37	32	36	38	42	32	33	40	37	44	44	49	36	37	37	37			
	Maximum	75	72	70	76	71	71	60	60	73	75	77	75	70	69	75	75	75	65	71	70	65	75	76	77	80	79	81	87			
	% Relative Humidity	23	27	16	20	22	28	22	15	17	20	14	37	40	25	24	25	34	28	26	22	21	18	13	10	12	11	12	17			
	Rainfall	.01 .01																														
MAR.	Temp. Minimum	47	61	45	39	42	32	38	34	36	31	41	56	44	40	45	48	51	53	55	53	49	40	51	41	42	48	41	43	51	50	56
	Temp. Maximum	84	81	74	59	74	76	70	62	59	64	75	79	83	86	89	91	89	88	81	74	72	75	74	77	81	80	77	80	89	88	86
	% Relative Humidity	15	21	33	6	18	23	50	57	74	45	29	28	20	20	15	18	18	23	42	65	44	28	41	32	27	19	33	39	24	11	19
	Rainfall	.32 .19 .13																														
APR.	Temp. Minimum	41	43	45	45	58	47	46	49	52	44	42	46	47	53	55	46	47	53	54	43	46	47	54	63	54	49	53	48	47	52	
	Maximum	79	78	74	78	90	91	91	94	92	82	76	82	82	85	88	89	91	89	83	80	85	90	89	82	88	87	86	87	87	92	
	% Relative Humidity	23	38	23	11	12	16	14	13	16	24	25	20	20	23	13	21	14	31	34	26	31	19	25	22	21	17	19	21	22	14	
	Rainfall	—																														
MAY	Temp. Minimum	52	54	56	51	48	46	51	56	61	61	56	58	52	56	56	56	60	49	53	45	56	66	62	54	50	61	62	66	62	61	59
	Maximum	92	90	89	85	83	85	89	87	89	91	96	96	91	96	89	90	89	87	86	80	94	98	99	95	103	109	107	97	95	99	92
	% Relative Humidity	16	21	24	32	34	21	19	24	26	21	19	24	24	24	29	22	39	22	60	17	14	11	18	19	12	8	13	16	19	20	
	Rainfall	—																														

ELEV. 1678 feet
above sea level

WEATHER SUMMARY
ORGAN PIPE CACTUS NATIONAL MONUMENT

File Code N-42

ORPI 3/75

Month	YEAR <u>1974</u>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
J u n e	Temp. Minimum	53	53	47	54	57	65	66	61	58	65	65	65	69	66	65	79	71	69	70	71	70	74	74	76	81	75	80	77	75	76	
	Maximum	77	77	96	97	98	97	92	89	98	105	105	108	107	110	113	109	109	105	105	110	109	111	108	105	107	111	113	113	108	106	
	% Relative Humidity	10	9	17	13	14	18	36	34	21	15	15	12	9	6	7	15	13	16	14	12	12	13	15	27	22	18	24	28	27	31	
	Rainfall																															
J u l y	Temp. Minimum	73	76	72	72	80	76	76	71	63	63	65	70	70	72	70	70	72	76	75	76	69	70	74	76	81	78	80	79	75	76	76
	Maximum	103	103	102	108	106	106	97	96	97	98	98	99	97	97	104	104	104	102	102	90	91	100	103	103	104	105	105	105	100	101	104
	% Relative Humidity	31	31	31	25	23	43	38	18	18	25	37	25	32	36	28	28	48	43	45	75	36	22	30	34	25	25	36	34	38	32	
	Rainfall		.23																			.23										
A u g	Temp. Minimum	79	74	77	72	74	73	76	73	69	66	61	68	75	74	72	70	75	72	70	68	61	70	67	67	74	69	71	69	70	67	72
	Temp. Maximum	102	100	97	96	99	103	106	100	99	99	102	102	102	100	102	104	105	108	104	99	100	102	104	104	102	104	103	101	107	105	105
	% Relative Humidity	35	45	91	52	31	32	33	28	25	17	16	29	32	31	24	18	14	21	29	36	21	25	34	27	18	35	21	14	11	30	
	Rainfall		.21		.16	.05																										
S e p	Temp. Minimum	75	75	78	71	73	74	74	53	74	71	73	74	71	62	68	66	62	55	53	63	62	62	64	64	62	67	60	61	66	64	
	Maximum	98	97	102	102	100	101	102	105	107	106	104	101	97	95	95	96	97	91	92	91	94	88	91	92	92	89	88	92	95	98	
	% Relative Humidity	45	32	28	34	39	34	27	21	26	17	19	37	24	26	29	21	44	62	34	34	95	85	69	42	36		36	30	20	20	
	Rainfall		5.18	.10	1.15				.02	.70								.02	.49		.10	.34	.13		.10	.01	2.02					
O c t	Temp. Minimum	71	66	69	63	60	64	62	66	62	60	69	60	55	55	60	52	52	55	57	58	63	59	55	57	53	54	49	50	47	48	40
	Maximum	99	97	94	89	89	85	81	82	90	90	88	83	84	88	88	94	95	95	95	92	88	84	76	82	86	82	75	74	72	64	69
	% Relative Humidity	18	26	34	46	30	95	55	68	33	18	29	41	31	25	21	15	15	11	11	21	38	95	59	58	41	38	52	54	52	56	43
	Rainfall		1.09					.38	.08		T		T											.73								

above sea level

ORGAN PIPE CACTUS NATIONAL MONUMENT

File Code N-42

ORPI 3/75

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File Code N-42

ORPI 3/75

above sea level		ORGAN PIPE CACTUS NATIONAL MONUMENT																PUECO 3436 N. 41														
Month	YEAR 1971	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
JAN.	Temp. Minimum	38	36	30	21	24	24	23	23	23	28	28	29	32	28	38	39	45	53	47	48	50	43	39	34	34	52	38	51	40	38	37
	Maximum	71	69	42	43	43	44	47	54	60	67	69	67	62	65	80	84	80	85	89	84	82	75	70	72	73	81	80	83	83	82	81
	% Relative Humidity	28	42	24	24	20	24	20	23	15	12	11	54	50	21	17	14	14	25	19	20	28	43	24	20	10	11	14	15	8	13	17
	Rainfall																															
FEB.	Temp. Minimum	32	33	41	42	29	32	35	36	45	43	38	39	40	39	43	48	50	38	34	38	31	30	34	43	38	38	35	25			
	Maximum	80	78	74	64	70	70	70	75	74	80	83	81	84	85	84	79	66	66	68	67	64	67	59	68	69	68	61	61			
	% Relative Humidity	14	17	7	9	10	19	14	10	11	10	14	8	9	4	14	11	48	43	24	23	28	25	100	38	30	24	10	15			
	Rainfall																	.02	.04						0.08	.12						
MAR.	Temp. Minimum	29	25	33	36	26	39	45	35	38	33	34	39	45	37	44	50	44	39	41	46	36	41	41	50	44	44	48	51	59	57	57
	Temp. Maximum	58	56	70	78	71	70	80	79	80	79	80	82	70	71	79	88	87	84	82	81	84	89	89	89	85	90	88	90	98	94	92
	% Relative Humidity	18	12	9	11	9	12	6	10	10	7	9	14	36	12	9	6	9	9	11	7	6	9	6	17	11	8	14	12	7	8	9
	Rainfall																															
APR.	Temp. Minimum	52	54	45	58	42	47	43	47	44	50	49	48	49	43	42	42	48	48	34	39	45	42	42	48	46	44	39	43	44	52	
	Maximum	85	88	86	89	91	93	92	86	88	92	93	92	94	94	75	79	78	67	63	74	78	80	79	77	74	77	76	84	92		
	% Relative Humidity	6	5	8	8	7	7	6	14	8	8	6	8	11	16	45	29	28	100	37	15	32	12	15	17	28	30	18	24	15	9	
	Rainfall																		.01	.01												
MAY	Temp. Minimum	48	47	48	50	46	53	44	49	46	50	51	64	57	59	57	54	54	52	54	47	57	51	45	53	54	55	59	53	48	49	52
	Maximum	90	91	86	83	78	74	74	77	83	87	91	90	74	95	94	91	87	86	94	93	90	81	86	95	97	93	70	81	79	83	86
	% Relative Humidity	12	8	20	17	19	53	30	31	15	19	14	17	14	13	14	18	11	5	4	42	14	14	18	11	19	13	15	20	24	20	
	Rainfall																															

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above sea level		ORGAN PIPE CACTUS NATIONAL MONUMENT																110 000 N 11														
Month	YEAR 1971	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
June	Temp. Minimum	53	55	49	47	50	50	55	51	57	59	55	57	61	59	59	70	70	72	68	65	65	71	69	72	74	70	69	66	63	64	
	Maximum	88	85	83	91	92	94	92	95	92	88	93	97	101	104	107	110	107	108	104	101	107	106	103	101	99	109	100	97	100	104	
	% Relative Humidity	20	19	26	15	13	6	11	28	28	30	25	16	13	20	18	7	12	11	12	10	12	25	28	24	26	22	19	26	20	22	
	Rainfall																															
July	Temp. Minimum	63	70	73	71	71	79	68	70	72	74	74	78	79	74	74	71	68	74	80	78	71	73	75	77	77	76	80	77	76	77	68
	Maximum	107	105	102	102	102	97	105	107	107	110	110	110	109	109	100	97	96	100	100	108	106	99	103	103	104	106	106	105	100	100	105
	% Relative Humidity	9	30	28	20	22	34	22	12	16	15	13	24	35	22	36	30	35	30	27	22	33	32	26	29	21	20	27	34	35	26	34
	Rainfall																															.09
Aug	Temp. Minimum	74	67	74	65	71	75	74	75	73	70	68	70	50	70	74	67	70	71	72	69	69	67	69	71	73	68	72	73	72	74	71
	Temp. Maximum	105	101	95	96	101	105	102	102	103	102	91	94	94	91	97	101	90	92	92	86	82	90	94	98	99	97	101	99	103	103	102
	% Relative Humidity	21	28	44	29	21	26	35	34	30	39	44	43	49	35	51	57	55	50	59	86	80	57	50	31	38	33	29	57	33	32	30
	Rainfall	.01	.31		.27						.01	.36	.01	1.31			.42	.10	.31	.12	.24	.05					.20	.02				
Sept	Temp. Minimum	73	72	73	69	72	73	75	73	76	71	69	71	72	68	71	69	72	67	64	53	63	55	63	64	57	56	53	48	52	59	
	Maximum	102	100	95	98	103	102	100	103	105	106	111	110	108	107	105	101	97	94	92	92	91	92	91	94	94	89	87	92	90	76	
	% Relative Humidity	31	34	40	24	25	31	28	28	49	23	16	31	9	10	23	36	24	21	11	2	16	10	16	15	28	29	29	15	80	75	
	Rainfall																												T	.45	.11	
Oct	Temp. Minimum	58	56	54	61	66	60	56	59	62	77	61	57	58	56	59	56	49	43	41	49	46	48	51	49	45	36	39	39	37	35	34
	Maximum	78	81	89	90	91	93	88	91	93	94	91	94	97	93	90	79	61	65	73	82	86	89	87	82	62	70	77	75	67	66	70
	% Relative Humidity	31	27	28	21	25	28	39	28	21	24	27	19	20	21	32	57	43	31	18	20	21	12	21	51	37	33	25	59	17	24	19
	Rainfall	.21					.07										.01	.06								.07				.03		

[illegible]



IN REPLY REFER TO:

United States Department of the Interior

NATIONAL PARK SERVICE
ORGAN PIPE CACTUS NATIONAL MONUMENT
ROUTE 1, BOX 100
AJO, ARIZONA 85321

W4215

September 14, 1978

Memorandum

To: Chief of Interpretation, Acting
From: Resource Management Specialist
Subject: Rain Gauge Reading (Quarterly)

It will soon be necessary to obtain rain gauge readings for the last quarter of 1978. Of particular concern are those locations off the beaten path such as Ajo Mtn. and Pinkley Peak. We should make these readings as close to October 1st as possible. I have extra oil in my office, be sure to take some with you when you read the respective gauges.

If you could schedule the following locations giving a date and name before-hand it would be much appreciated. A schedule will be available in my office.

QUITOBAQUITO
AJO MTN.
SAHUARO PLOT PLC-41-3
PINKLEY PEAK
DRIPPING SPRINGS
GROWLER VALLEY
ARCH CANYON
DOS LOMITAS
BOWLING
ARMENTA
ALAMO CANYON

RB	9/29
RB	10/2
PR	10/1
RB	9/29
RB	9/29
PR	10/1
RB	10/2
PR	10/1
PR	10/1
PRT	10/1
PRT	10/1

J. Peters
James T. Peters

cc:
Chief Ranger
Park Ranger, Tadeo

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
Phoenix, Arizona

December 2, 1949

Custodian,
Organ Pipe Cactus N. M.,
Box 38
Ajo, Arizona

Dear Mr. Supernaugh:

The Weather Bureau is again cooperating with the Meteorological Services of other nations of the International Meteorological Organization in a world wide observation program during the 10-day period December 8-17, 1949. This program will be similar to those carried out during April and November 1948 and June 1949, and if you are again willing to take part, the Weather Bureau will appreciate your cooperation. The elements to be observed are shown on the enclosed form and detailed instructions are printed on the back. One observation is desired daily, at the time shown on the observation form. When the form has been filled out, please mail it to this office.

It is desired that your regular observation program be continued unchanged during this 10-day period. In the event that you find it possible to take these special observations during only part of the 10-day period, the Weather Bureau will nevertheless be glad to have the reports that you prepare.

As we have previously stated the special observations made by cooperative observers were of considerable value and contributed materially to the value of these programs.

Sincerely yours, .



Section Director

Encl.

INSTRUCTIONS FOR PREPARING FORM ON OTHER SIDE

Temperature: Do not enter the maximum or minimum; only the temperature at the time of special observation should be reported. This temperature should be obtained by reading the end of the alcohol column without changing the maximum or minimum thermometer at this time.

Weather: Report weather at time of special observation. Use terms like:

	(Rain
Light, moderate, or	(Snow
heavy	(Freezing Rain
	(Hail
Drizzle	
Thunderstorm	
Rain or Snow Squall	
Light Fog	
Dense Fog	

Wind Direction: Enter the direction from which the wind blows.

Wind Velocity: The velocity in miles per hour can be estimated from the following:

Less than	
1 mile	Smoke rises vertically.
1 to 3	Direction of wind shown by smoke drift but not by wind vanes.
4 to 7	Wind felt on face, leaves rustle; ordinary vane moved by wind.
8 to 12	Leaves and small twigs in constant motion, wind extends light flag.
13 to 18	Raises dust and loose paper; small branches are moved.
19 to 24	Small trees in leaf begin to sway; crested wavelets form on inland waters.
25 to 31	Large branches in motion, whistling heard in telegraph wires; umbrellas used with difficulty.
32 to 38	Whole trees in motion; inconvenience felt in walking against the wind.
39 to 46	Breaks twigs off trees; generally impedes progress.
47 to 54	Slight structural damage occurs (chimney pots and slate removed).
55 to 63	Trees uprooted; considerable structural damage occurs.
64 to 75	Rarely experienced; accompanied by wide-spread damage.

Cloudiness: Make an estimate of how much the sky is covered with clouds and enter one of the following:

"Cloudless" - Clouds not visible.
"Few clouds" - Sky less than 1/10 covered.
"Partly cloudy" - Sky from 1/10 to one-half covered.
"Cloudy" - Sky from 6/10 to 9/10 covered.
"Overcast" - Sky more than 9/10 covered.

Note: It will not be necessary to make a special observation of rainfall or snow.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU

Organ Pipe Cactus N. M.

Pima

Arizona

Station

County

State

International Aerological Days Special Observations taken at 11:30 A.M. MST
Local Standard Time

Day of Week	Date June 1949	Temper- ature °F.	Weather	Wind		Cloudiness
				Direction	Velocity Estimated miles per hour	
Wednesday	8		clear	SW	10	Few clouds
Thursday	9	95	clear	W	8	Partly cloudy
Friday	10	94	clear	W	4	none
Saturday	11	97	clear	SW	2	Few clouds
Sunday	12	98	clear	SW	4	Few clouds
Monday	13	95	clear	SW	6	Clear - m.
Tuesday	14	95	"	SW	3	clear -
Wednesday	15	100	"	W	3	partly cloudy
Thursday	16	101	clear	S	4	Few clouds
Friday	17	92	clear	SW	15	Partly cloudy.

Observer _____

See other side for instructions



750

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU

Phoenix, Arizona

November 24, 1948

Custodian
Organ Pipe Cactus Natl. Mon., Box 38
Ajo, Arizona

Dear Mr. Supernaugh,

I wish to express the thanks of the U. S. Weather Bureau and also my personal appreciation for your participation in the program of observations taken during the second postwar International Aerological Days, November 11 - 20, 1948.

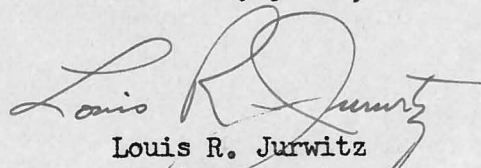
Observations will be plotted on daily maps and will be studied by meteorological experts. The remarkable homogeneity of reports is a real tribute to the great accuracy with which you made the observations.

This collection of data will render possible a detailed study on a nationwide basis of fronts, mountain and valley breezes and their relations to the larger features of the general circulation.

As studies are completed and reports published, it is hoped that we will be able to supply you with a copy so that you may know how your observations contributed to the progress of the Science of Meteorology.

It is hoped that we may count on your aid in future periods of special study.

Sincerely yours,


Louis R. Jurwitz
Section Director

Organ Pipe Cactus N. M.PimaArizona

Station

County

State

International Aerological Days Observations at: 11:30 A.M. MST

Day of Week	Date 1948 Nov.	Temp.	Weather	Wind Dir.	Wind Velocity Est.mph	Cloudiness
Thurs.	11	68	0/	SW	2	3 Es 0/003
Friday	12	68	—	W	1	0 00099
Sat.	13	69	—	N	1	0 00099
Sunday	14	71 ⁽³⁾	—	W	5	0 00099
Monday	15	72	—	S	1	0 00099
Tues.	16	72	—	N	1	0 00099
Wed.	17	71	—	W	2	0 00099
Thurs.	18	60	—	NE	10	0 00099
Friday	19	60	—	E	3	0 00099
Sat.	20	61	—	NW	2	0/ 00399

Observer _____

(See reverse side for instructions)

INSTRUCTIONS

Temperature: Do not enter the maximum or minimum; only the temperature at the time of special observation should be reported. This temperature shall be obtained by reading the end of the alcohol column without changing maximum or minimum thermometer at this time.

Weather: Report weather at time of special observation. Use terms like:

	(Rain
Light, moderate or	(Snow
heavy	(Freezing Rain
	(Hail
Drizzle	
Thunderstorm	
Rain or Snow Squall	
Light Fog	
Dense Fog	

Direction: Enter the direction from which the wind blows.

Velocity: The velocity in miles per hour can be estimated from the following:

than

le.	Smoke rises vertically.
3	Direction of wind shown by smoke drift but not by wind vanes.
7	Wind felt on face, leaves rustle; ordinary vane moved by wind.
12	Leaves and small twigs in constant motion, wind extends light flag.
o 18	Raises dust and loose paper; small branches are moved.
o 24	Small trees in leaf begin sway; crested wavelets form on inland waters.
o 31	Large branches in motion; whistling heard in telegraph wires; umbrellas used with difficulty.
o 38	Whole trees in motion; inconvenience felt in walking against the wind.
o 46	Breaks twigs off trees; generally impedes progress.
o 54	Slight structural damage occurs (chimney pots and slate removed).
o 63	Trees uprooted; considerable structural damage occurs.
o 75	Rarely experienced; accompanied by widespread damage.

Cloudiness: Make an estimate of how much the sky is covered with clouds and enter one of the following:

"Cloudless" - Clouds not visible.
"Few clouds" - Sky less than 1/10 covered.
"Partly cloudy" - Sky from 1/10 to one-half covered.
"Cloudy" - Sky from 6/10 to 9/10 covered.
"Overcast" - Sky more than 9/10 covered.

: It will not be necessary to make a special observation of rainfall or snow.

750 -
UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU

Phoenix, Arizona

November 4, 1948

Mr. W. R. Supernaugh,
Organ Pipe Cactus N. M.
Ajo, Arizona

Dear Mr. Supernaugh:

The United States Weather Bureau is again cooperating with other nations of the International Meteorological Organization in a 10-day program of intensive weather observations throughout the world. These days will be from November 11 through November 20, inclusive, and will be known as International Aerological Days. The purpose is to provide a detailed series of observations for intensive study by meteorologists throughout the world, and the results should materially aid in our understanding of weather changes.

As a part of this program, we should like to include special observations by any of our cooperative climatological observers who may wish to assist by taking a special observation at 11:30 A.M. each day for 10 days beginning Thursday, November 11, and continuing through Saturday, November 20. These observations from climatological stations, which will all be taken at the same time throughout the United States, will show in detail the many changes that occur as weather patterns travel across the country.

If you are willing to take part in this international undertaking, the Weather Bureau will appreciate your cooperation. Participation is entirely voluntary as we realize that many observers do not have the necessary time to take observations during mid-day.

The observation will be essentially the same as that now taken, but with the addition of wind, weather and cloud elements which you can observe without instruments. Instructions for these observations, together with a report blank, are enclosed in case you may decide to make the observations. The report form, when filled out, should be mailed to this office as soon as convenient after November 20. Your regular observations should, of course, continue to be taken.

If you are able to take observations for only a part of the days, the Weather Bureau will be pleased to have your reports.

Sincerely yours,

Louis R. Jurwitz
Louis R. Jurwitz
Section Director

Encls.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
Phoenix, Arizona

March 24, 1948

Mr. W. R. Supernaugh
Organ Pipe Cactus N. M.
Ajo, Arizona

Dear Mr. Supernaugh:

The United States Weather Bureau is cooperating with other nations of the International Meteorological Organization in a 10-day program of intensive weather observations throughout the world. These days will be from April 1 through April 10 and will be known as International Aerological Days. The purpose is to provide a detailed series of observations for intensive study by meteorologists throughout the world, and the results should materially aid in our understanding of weather changes.

As a part of this program, we should like to include special observations by any of our cooperative climatological observers who may wish to assist by taking a special observation at

11:30 A. M. each day for 10 days beginning Thursday, April 1, and continuing through Saturday, April 10. These observations from climatological stations, which will all be taken at the same time throughout the United States, will show in detail the many changes that occur as weather patterns travel across the country.

If you are willing to take part in this international undertaking, the Weather Bureau will appreciate your cooperation. Participation is entirely voluntary as we realize that many observers do not have the necessary time to take observations during midday.

The observation will be essentially the same as that now taken, but with the addition of wind, weather and cloud elements which you can observe without instruments. Instructions for these observations, together with a report blank, are enclosed in case you may decide to make the observations. The report form, when filled out, should be mailed to this office as soon as convenient after April 10. Your regular observations should, of course, continue to be taken.

If you are able to take observations for only a part of the days, the Weather Bureau will be pleased to have your reports.

Sincerely,

Louis R. Hurwitz
Section Director.

Encl.

*Report filed w/ corrected up
Meteor. Records
LH*

Summary of Rainfall Organ Pipe Cactus
National Monument

Month.....	1944	1945	1946	1947	1948
January	.35	.78	.76	.35	
February	2.25	.04	0	.15	
March	.87	1.28	0	.05	
April	.50	.02	.07	0	
May	.05	0	0	0	
June	0	0	0	0	
July	.11	.69	.43	1/91	
August	.44	1.29	.39	2.51	
September	.98	.19	8.93	.36	
October	.69	.09	T	.08	
November	1.70	0	.26.	1.28	
December	1.36	.02	.14	1.77	
Totals	9.30	4.40	10.48	8.44	