

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: NEEDLES AP EED CALIFORNIA Station Number: 046118

Latitude: 34 B 45* 58 (Longitude: -114 B 37* 24 (Elevation (feet): 88

Climate Division: CA 07 Southeast Desert Basins

Page 1 of 3

		DF	СЕМВЕ	R					.1.	ANUAR	Y					FF	BRUAR		Page	
Date	MAX	MIN			CDD	PRCP	Date	MAX	MIN		HDD	CDD	PRCP	Date	MAX	MIN			CDD	PRCF
1	68	45	57	9	*	0.01	1	64	42	53	12	0	0.02	1	68	44	56	9	0	0.03
2	68	45	56	9	*	0.01	2	64	42	53	12	0	0.02	2	68	45	56	9	0	0.03
3	67	45	56	9	*	0.01	3	64	42	53	12	0	0.02	3	69	45	57	8	0	0.03
4	67	45	56	9	*	0.01	4	64	42	53	12	0	0.02	4	69	45	57	8	0	0.03
5	67	44	56	10	*	0.01	5	64	42	53	12	0	0.02	5	69	45	57	8	0	0.03
6	66	44	55	10	0	0.01	6	64	42	53	12	0	0.02	6	69	45	57	8	0	0.03
7 8	66 66	4 4 4 4	55 55	10 10	0	0.01	7 8	64 64	42 42	53 53	12 12	0	0.02	7 8	70 70	45 45	57 58	8 8	0	0.02
9	66	44	55	10	0	0.01	9	64	42	53	12	*	0.02	9	70	45	58	7	0	0.02
10	66	43	54	11	0	0.01		64	42	53	12	*	0.02	-	70	46	58	7	0	0.02
11	65	43	54	11	0	0.01	11	64	42	53	12	*	0.02		70	46	58	7	0	0.02
12	65	43	54	11	0	0.01	12	64	42	53	12	*	0.02		71	46	58	7	0	0.02
13	65	43	54	11	0	0.01	13	64	42	53	12	0	0.02	13	71	46	58	7	0	0.02
14	65	43	54	11	0	0.01	14	65	43	54	12	0	0.02		71	46	59	7	0	0.02
15	65	43	54	11	0	0.01		65	43	54	12	0	0.02		71	46	59	7	1	0.02
16	64	43	54	12	0	0.01		65	43	54	11	0	0.03		72	46	59	6	1	0.02
17 18	64	43	53 53	12 12	0	0.01		65	43	54	11 11	0	0.03		72 72	47	59 59	6	1 1	0.02
19	64 64	42 42	53 53	12	0	0.01		65 65	43 43	54 54	11	0	0.03	l	72	47 47	60	6 6	1	0.02
20	64	42	53	12	0	0.02		65	43	54	11	0	0.03		72	47	60	6	1	0.02
21	64	42	53	12	0	0.02		66	43	54	11	0	0.03		73	47	60	6	1	0.02
22	64	42	53	12	0	0.02	22	66	43	55	11	0	0.03		73	47	60	6	1	0.02
23	64	42	53	12	0	0.02		66	43	55	11	0	0.03		73	47	60	6	1	0.02
24	64	42	53	12	0	0.02	24	66	43	55	10	0	0.03	24	73	47	60	6	1	0.02
25	64	42	53	12	0	0.02	25	66	44	55	10	0	0.03		74	48	61	6	1	0.02
26	64	42	53	12	0	0.02		67	44	55	10	0	0.03		74	48	61	6	1	0.02
27	64	42	53	12	0	0.02		67	44	55	10	0	0.03		74	48	61	6	2	0.02
28	64	42	53	12	0	0.02		67	44	55	10	0	0.02	28	74	48	61	5	2	0.03
29 30	63 64	42 42	53 53	12 13	0	0.02		67	44	56	10	0	0.02							
	64	42	53	12	0	0.02		68 68	4 4 4 4	56 56	9	0	0.02							
31			J J	12)	U	0.02							0 ()
31 MTH:			54.0	345	5	0.44	MTH:	65.2	42.8	54.0	346	5	0.74	I M'I'H :	71.2	46.2	58.7	192	16	U - h.3
	65.0	43.0	54.0	345 WINT	5 ER SE	0.44 (ASON:	MTH:	65.2 67.1	42.8	54.0 55.6	346 883	5 26	0.74	MTH:	71.2	46.2	58.7	192	16	0.63
		43.0		WINT		0.44 EASON:	MTH:			55.6				MTH:	71.2	46.2		192	16	0.63
MTH:	65.0	43.0	// ARCH	WINT	ER SE	ASON:		67.1	44.0	55.6 APRIL	883	26	1.81				MAY			
MTH:	65.0	43.0 MIN	//ARCH AVG	WINT	ER SE	ASON:	Date	67.1 MAX	44.0 MIN	55.6 APRIL AVG	883 HDD	26 CDD	1.81 PRCP	Date	MAX	MIN	MAY AVG	HDD	CDD	PRCI
MTH: Date	65.0 MAX	43.0 MIN 48	MARCH AVG	WINT HDD	CDD	PRCP	Date 1	67.1 MAX 82	44.0 MIN 53	55.6 APRIL AVG	883 HDD	26 CDD 5	1.81 PRCP 0.01	Date 1	MAX 90	MIN 61	MAY AVG		CDD	PRCI
MTH:	65.0	43.0 MIN	//ARCH AVG	WINT	ER SE	PRCP 0.02 0.02	Date	67.1 MAX	44.0 MIN	55.6 APRIL AVG	883 HDD 3 3	26 CDD	1.81 PRCP	Date	MAX	MIN	MAY AVG	HDD *	CDD	PRCI
Date	65.0 MAX 74 75	43.0 MIN 48 48	MARCH AVG 61 61	HDD 6 6	CDD 2 2 2	PRCP	Date	67.1 MAX 82 82	44.0 MIN 53 54	55.6 APRIL AVG 68 68	883 HDD	26 CDD 5 6	PRCP 0.01 0.01	Date	MAX 90 90	MIN 61 62	MAY AVG 76 76	HDD * *	CDD 11 11 11	PRCI 0.01 0.01 0.01
Date 1 2 3	65.0 MAX 74 75 75	43.0 MIN 48 48 48	MARCH AVG 61 61 62	HDD 6 6 6 5	CDD 2 2 2 2	PRCP 0.02 0.02 0.02	Date	67.1 MAX 82 82 83	44.0 MIN 53 54 54	55.6 APRIL AVG 68 68 68	883 HDD 3 3 2	26 CDD 5 6 6	PRCP 0.01 0.01 0.01	Date 1 2 3	MAX 90 90 91	MIN 61 62 62	MAY AVG 76 76 76	HDD * * *	CDD 11 11 12	PRCI 0.01 0.01 0.01 0.01
Date 1 2 3 4 5 6	MAX 74 75 75 75 75	43.0 MIN 48 48 48 48 49 49	61 61 62 62 62 62 62	HDD 6 6 5 5 5 5 5	CDD 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	PRCP 0.02 0.02 0.02 0.02 0.03 0.03	Date 1 2 3 4 5	MAX 82 82 83 83 83 83	MIN 53 54 54 54 54 54	55.6 APRIL AVG 68 68 68 68 69 69	883 HDD 3 3 2 2 2 2 2	26 CDD 5 6 6 6 6	PRCP 0.01 0.01 0.01 0.01 0.01 0.01	Date 1 2 3 4 5 6	MAX 90 90 91 91 91	MIN 61 62 62 62 62 63 63	MAY AVG 76 76 76 77 77	HDD * * * * * * 0	CDD 11 11 12 12 12 12 13	PRCI 0.01 0.01 0.01 0.01 0.01
Date 1 2 3 4 5 6 7	MAX 74 75 75 75 75 76	43.0 MIN 48 48 48 48 49 49	61 61 62 62 62 62 62 62	HDD 6 6 6 5 5 5 5 5 5 5 5	CDD 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	PRCP 0.02 0.02 0.02 0.02 0.03 0.03 0.03	Date 1 2 3 4 5 6 7	MAX 82 82 83 83 83 83 84	MIN 53 54 54 54 54 54 55	55.6 APRIL AVG 68 68 68 68 69 69 69	883 HDD 3 3 2 2 2 2 2 2	26 CDD 5 6 6 6 6 6	PRCP 0.01 0.01 0.01 0.01 0.01 0.01	Date 1 2 3 4 5 6 7	MAX 90 90 91 91 91 91 92	MIN 61 62 62 62 63 63 63	MAY AVG 76 76 76 77 77 77	HDD * * * * * 0 0	CDD 11 11 12 12 12 13 13	PRC: 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.0
Date 1 2 3 4 5 6 7 8	MAX 74 75 75 75 76 76	43.0 MIN 48 48 48 48 49 49 49	MARCH AVG 61 61 62 62 62 62 62 62 62	HDD 6 6 5 5 5 5 5 5 5 5 5 5	CDD 2 2 2 2 2 2 2 2 3	PRCP 0.02 0.02 0.02 0.02 0.03 0.03 0.03 0.03	Date 1 2 3 4 5 6 7 8	MAX 82 82 83 83 83 83 84 84	MIN 53 54 54 54 54 54 55 55	55.6 APRIL AVG 68 68 68 69 69 69 69	HDD 3 3 2 2 2 2 2 2 2 2 2 2 2	26 CDD 5 6 6 6 6 6 6	PRCP 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.0	Date 1 2 3 4 5 6 7 8	MAX 90 90 91 91 91 91 92 92	MIN 61 62 62 62 63 63 63 63	MAY AVG 76 76 77 77 77 77 77	HDD * * * 0 0 0	CDD 11 11 12 12 12 13 13 13	PRC: 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.0
Date 1 2 3 4 5 6 7 8 9	MAX 74 75 75 75 76 76 76	43.0 MIN 48 48 48 49 49 49 49	61 61 62 62 62 62 62 62 62 63	HDD 6 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	CDD 2 2 2 2 2 2 2 2 3 3 3	PRCP 0.02 0.02 0.02 0.02 0.03 0.03 0.03 0.0	Date 1 2 3 4 5 6 7 8 9	MAX 82 82 83 83 83 84 84 84	MIN 53 54 54 54 54 54 55 55	55.6 APRIL AVG 68 68 68 69 69 69 70	HDD 3 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	26 CDD 5 6 6 6 6 6 6 6	PRCP 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.0	Date 1 2 3 4 5 6 7 8 9	MAX 90 90 91 91 91 92 92 92	MIN 61 62 62 62 63 63 63 64 64	MAY AVG 76 76 77 77 77 77 78 78	HDD * * * * 0 0 0 0	CDD 11 11 12 12 12 13 13 13 13	PRCI 0.01 0.01 0.01 0.01 0.01 0.01 0.01
Date 1 2 3 4 5 6 7 8 9 10	MAX 74 75 75 75 76 76 76 76	43.0 MIN 48 48 48 49 49 49 49 49	61 61 62 62 62 62 62 62 62 63 63	HDD 6 6 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	CDD 2 2 2 2 2 2 2 2 3 3 3 3 3	PRCP 0.02 0.02 0.02 0.02 0.03 0.03 0.03 0.0	Date 1 2 3 4 5 6 7 8 9 10	MAX 82 82 83 83 83 84 84 84	MIN 53 54 54 54 55 55 55	55.6 APRIL AVG 68 68 68 69 69 69 70 70	883 HDD 3 3 2 2 2 2 2 2 2 2 2 2 2 2 2	26 CDD 5 6 6 6 6 6 6 6 7	PRCP 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.0	Date 1 2 3 4 5 6 7 8 9 10	MAX 90 90 91 91 91 91 92 92 92 93	MIN 61 62 62 62 63 63 63 64 64	MAY AVG 76 76 77 77 77 77 78 78 78	* * * * 0 0 0 0 0	CDD 11 11 12 12 12 13 13 13 13 14	PRCI 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.0
Date 1 2 3 4 5 6 7 8 9 10 11	MAX 74 75 75 75 76 76 76 76 77	43.0 MIN 48 48 48 49 49 49 49 49 50	MARCH AVG 61 61 62 62 62 62 62 62 63 63 63	HDD 6 6 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	CDD 2 2 2 2 2 2 2 2 3 3 3 3 3 3	PRCP 0.02 0.02 0.02 0.02 0.03 0.03 0.03 0.0	Date 1 2 3 4 5 6 7 8 9 10 11	MAX 82 82 83 83 83 84 84 84 85	MIN 53 54 54 54 54 55 55 55 56	55.6 APRIL AVG 68 68 68 69 69 69 70 70 70	883 HDD 3 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	26 CDD 5 6 6 6 6 6 6 7 7	PRCP 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.0	Date 1 2 3 4 5 6 7 8 9 10 11	MAX 90 90 91 91 91 92 92 92 93 93	MIN 61 62 62 62 63 63 63 64 64 64	MAY AVG 76 76 77 77 77 77 78 78 78	* * * * 0 0 0 0 0 0	CDD 11 11 12 12 12 13 13 13 14 14	PRC 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.0
Date 1 2 3 4 5 6 7 8 9 10 11 12	MAX 74 75 75 75 76 76 76 76	43.0 MIN 48 48 48 49 49 49 49 49	61 61 62 62 62 62 62 62 62 63 63	HDD 6 6 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	CDD 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3	PRCP 0.02 0.02 0.02 0.02 0.03 0.03 0.03 0.03	Date 1 2 3 4 5 6 7 8 9 10 11 12	MAX 82 82 83 83 83 84 84 84	MIN 53 54 54 54 55 55 55	55.6 APRIL AVG 68 68 68 69 69 69 70 70	883 HDD 3 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	26 CDD 5 6 6 6 6 6 6 6 7	PRCP 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.0	Date 1 2 3 4 5 6 7 8 9 10 11 12	MAX 90 90 91 91 91 91 92 92 92 93	MIN 61 62 62 62 63 63 63 64 64	MAY AVG 76 76 77 77 77 77 78 78 78	* * * * 0 0 0 0 0	CDD 11 11 12 12 12 13 13 13 13 14	PRC 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.0
Date 1 2 3 4 5 6 7 8 9 10 11 12 13	MAX 74 75 75 75 76 76 76 77 77	43.0 MIN 48 48 48 49 49 49 49 50 50	MARCH AVG 61 61 62 62 62 62 62 62 63 63 63 63	HDD 6 6 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	CDD 2 2 2 2 2 2 2 2 3 3 3 3 3 3	PRCP 0.02 0.02 0.02 0.02 0.03 0.03 0.03 0.0	Date 1 2 3 4 5 6 7 8 9 10 11 12 13	82 82 83 83 83 83 84 84 85 85	MIN 53 54 54 54 54 55 55 55 56 56	55.6 APRIL AVG 68 68 68 69 69 69 69 70 70 71	883 HDD 3 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	26 CDD 5 6 6 6 6 6 6 6 7 7	PRCP 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.0	Date 1 2 3 4 5 6 7 8 9 10 11 12 13	MAX 90 90 91 91 91 92 92 92 93 93 93	MIN 61 62 62 62 63 63 63 64 64 64 65 65	MAY AVG 76 76 77 77 77 77 77 78 78 78 79	* * * * 0 0 0 0 0 0 0	CDD 11 11 12 12 12 13 13 13 13 14 14	PRC 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.0
Date 1 2 3 4 5 6 7 8 9 10 11 12 13 14	MAX 75 75 75 75 76 76 76 77 77	43.0 MIN 48 48 48 49 49 49 49 49 50 50	61 61 62 62 62 62 62 62 63 63 63 63 63	HDD 6 6 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	CDD 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3	PRCP 0.02 0.02 0.02 0.02 0.03 0.03 0.03 0.0	Date 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	82 82 83 83 83 84 84 85 85 85	MIN 53 54 54 54 55 55 55 55 56 56	55.6 APRIL AVG 68 68 68 69 69 69 70 70 71 71	883 HDD 3 3 2 2 2 2 2 2 2 2 2 2 1	26 CDD 5 6 6 6 6 6 6 7 7 7	PRCP 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.0	Date 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	MAX 90 90 91 91 91 92 92 92 93 93 93 93	MIN 61 62 62 63 63 63 64 64 65 65	MAY AVG 76 76 77 77 77 77 77 78 78 78 79 79	* * * * 0 0 0 0 0 0 0 0 0	CDD 11 11 12 12 12 13 13 13 13 14 14 14 15	PRC 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.0
Date 1 2 3 4 5 6 7 8 9 10 11 11 12 13 14 15 16	65.0 MAX 74 75 75 75 76 76 76 77 77 77 78	43.0 MIN 48 48 48 49 49 49 50 50 50 50 50	61 61 62 62 62 62 62 62 63 63 63 63 64 64	HDD 6 6 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	CDD 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3	PRCP 0.02 0.02 0.02 0.02 0.03 0.03 0.03 0.0	Date 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	82 82 83 83 83 84 84 85 85 85 85 86 86	MIN 53 54 54 54 55 55 55 55 56 56 56 57 57	55.6 APRIL AVG 68 68 68 69 69 69 70 70 71 71 71 71 72	883 HDD 3 3 2 2 2 2 2 2 2 1 1 1 1	26 CDD 5 6 6 6 6 6 6 7 7 7 7 7 7 7 8 8	PRCP 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.0	Date 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	90 90 91 91 91 91 92 92 92 93 93 93 93 94 94	MIN 61 62 62 63 63 63 64 64 65 65 66 66	MAY AVG 76 76 77 77 77 77 78 78 78 79 79 79 79 80 80 80	### ### ### ### ### ### ### ### ### ##	CDD 11 11 12 12 12 13 13 13 14 14 14 15 15 15	PRC 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.0
Date 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	65.0 MAX 74 75 75 75 76 76 76 77 77 77 78 78	43.0 MIN 48 48 48 49 49 49 50 50 50 50 50 50	61 61 62 62 62 62 62 63 63 63 63 64 64 64	WINT HDD 6 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	CDD 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3	PRCP 0.02 0.02 0.02 0.03 0.03 0.03 0.03 0.0	Date 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	82 82 83 83 83 84 84 85 85 85 85 86 86 86	MIN 53 54 54 54 55 55 55 55 57 57	55.6 APRIL AVG 68 68 68 69 69 69 70 70 71 71 71 71 72 72	883 HDD 3 3 2 2 2 2 2 2 2 1 1 1 1 1	26 CDD 5 6 6 6 6 6 6 7 7 7 7 7 7 7 8 8 8	PRCP 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.0	Date 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	90 90 91 91 91 91 92 92 92 93 93 93 93 94 94 95	MIN 61 62 62 63 63 63 64 64 65 65 66 66 66	MAY AVG 76 76 77 77 77 77 78 78 78 79 79 79 79 80 80 80 81	### ### ### ### ### ### ### ### ### ##	CDD 11 11 12 12 12 13 13 13 14 14 15 15 15 16	PRC 0.013 0.03 0.03 0.03 0.03 0.03 0.03 0.0
Date 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MAX 74 75 75 75 76 76 76 77 77 77 77 78 78 78	43.0 MIN 48 48 48 49 49 49 50 50 50 50 50 50 51	61 62 62 62 62 62 62 63 63 63 63 64 64 64	WINT HDD 6 6 5 5 5 5 5 5 5 5 6 6 7 7 7 7 8 7 8 8 8 8 8 8 8 8 8 8 8 8	CDD 2 2 2 2 2 2 2 2 3 3 3 3 3 3 4 4 4	PRCP 0.02 0.02 0.02 0.03 0.03 0.03 0.03 0.0	Date 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MAX 82 82 83 83 83 84 84 84 85 85 85 86 86 86 86 87	MIN 53 54 54 54 55 55 55 56 56 56 56 57 57 57	55.6 APRIL AVG 68 68 68 69 69 69 70 70 71 71 71 71 72 72 72 72	883 HDD 3 3 2 2 2 2 2 2 2 1 1 1 1 1 1	26 CDD 5 6 6 6 6 6 7 7 7 7 7 8 8 8	PRCP 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.0	Date 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MAX 90 90 91 91 91 92 92 92 93 93 93 93 93 94 94 95 95	MIN 61 62 62 63 63 63 64 64 65 65 66 66 67 67	MAY AVG 76 76 77 77 77 77 78 78 78 79 79 79 80 80 80 81 81	### ### ### ### ### ### ### ### ### ##	CDD 11 11 12 12 12 13 13 13 14 14 15 15 15 16 16	PRC 0.0010 0.001 0
MTH: 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	MAX 74 75 75 75 75 76 76 76 77 77 77 78 78 78 78	43.0 MIN 48 48 49 49 49 49 50 50 50 50 50 51 51	61 62 62 62 62 62 62 63 63 63 63 63 64 64 64 64	WINT HDD 6 6 5 5 5 5 5 5 5 5 6 6 6 7 7 7 7 8 7 8 8 8 8 8 8 8 8 8 8 8	CDD 2 2 2 2 2 2 2 2 3 3 3 3 3 3 4 4 4 4 4	PRCP 0.02 0.02 0.02 0.02 0.03 0.03 0.03 0.02 0.02	Date 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	82 82 83 83 83 84 84 84 85 85 85 86 86 86 87 87	MIN 53 54 54 54 55 55 55 56 56 56 56 57 57 57 58	55.6 APRIL AVG 68 68 68 69 69 69 70 70 71 71 71 71 72 72 72 72 72	883 HDD 3 3 2 2 2 2 2 2 2 1 1 1 1 1 1 1	26 CDD 5 6 6 6 6 6 6 7 7 7 7 8 8 8 8	PRCP 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.0	Date 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	MAX 90 90 91 91 91 92 92 93 93 93 93 93 94 94 95 95	MIN 61 62 62 63 63 63 64 64 65 65 66 67 67	MAY AVG 76 76 76 77 77 77 78 78 78 79 79 80 80 80 81 81 81	### ### ### ### ### ### ### ### ### ##	CDD 11 11 12 12 12 13 13 13 14 14 15 15 15 16 16 16	PRC 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.0
Date 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MAX 74 75 75 75 76 76 76 77 77 77 78 78 78 78	43.0 MIN 48 48 48 49 49 49 49 49 50 50 50 50 50 50 51 51	61 61 62 62 62 62 62 63 63 63 63 64 64 64 65 65	HDD 6 6 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	2 2 2 2 2 2 2 3 3 3 3 3 3 4 4 4 4 4 4 4	PRCP 0.02 0.02 0.02 0.02 0.03 0.03 0.03 0.0	Date 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	82 82 83 83 83 84 84 85 85 85 86 86 86 86 87 87	MIN 53 54 54 54 55 55 55 56 56 56 56 57 57 57 58 58	55.6 APRIL AVG 68 68 68 69 69 69 70 70 71 71 71 71 72 72 72 72 73	## HDD 3	26 CDD 5 6 6 6 6 6 7 7 7 7 7 8 8 8 8 8	PRCP 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.0	Date 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MAX 90 90 91 91 91 92 92 92 93 93 93 93 94 94 95 95 96	MIN 61 62 62 63 63 63 64 64 65 65 66 67 67 67	MAY AVG 76 76 77 77 77 77 78 78 78 79 79 79 80 80 80 81 81 81 81 82	### ** ** ** * 0 0 0 0 0 0 0 0 0	CDD 11 11 12 12 12 13 13 13 14 14 15 15 16 16 16 17	PRC 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.0
Date 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MAX 74 75 75 75 76 76 76 77 77 77 77	43.0 MIN 48 48 49 49 49 49 49 50 50 50 50 50 51 51 51	61 61 62 62 62 62 62 63 63 63 63 64 64 64 65 65	HDD 6 6 5 5 5 5 5 5 5 6 4 4 4 4	CDD 2 2 2 2 2 2 2 3 3 3 3 3 4 4 4 4 4 4	PRCP 0.02 0.02 0.02 0.03 0.03 0.03 0.03 0.0	Date 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	82 82 83 83 83 84 84 85 85 85 86 86 86 87 87 87	MIN 53 54 54 54 55 55 55 56 56 56 57 57 57 57 58 58	55.6 APRIL AVG 68 68 68 69 69 69 70 70 71 71 71 71 72 72 72 72 73 73	883 HDD 3 3 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1	26 CDD 5 6 6 6 6 6 7 7 7 7 7 8 8 8 8 8 9	PRCP 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.0	Date 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MAX 90 90 91 91 91 92 92 92 93 93 93 93 94 94 95 95 96	MIN 61 62 62 63 63 63 64 64 65 65 66 67 67 67 68	MAY AVG 76 76 77 77 77 77 78 78 78 79 79 79 80 80 80 81 81 81 82 82	### ** * * * 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CDD 11 11 12 12 12 13 13 13 13 14 14 15 15 15 16 16 16 17 17	PRC 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.0
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Date 1 2 3 4 5 6 7 8 9 10 11 11 12 13 14 15 16 17 18 19 20 21 22 22 22 22 22 25	74 75 75 75 76 76 76 77 77 77 77 78 78 78 78 78 78 79 79 79 80	43.0 MIN 48 48 48 49 49 49 49 50 50 50 50 50 51 51 51 51 51 52	61 61 62 62 62 62 62 62 63 63 63 63 64 64 64 64 65 65 65	HDD 6 6 6 5 5 5 5 5 5 5 5 5 5 5 5 5 4 4 4 4	2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 4 4 4 4 4	PRCP 0.02 0.02 0.02 0.03 0.03 0.03 0.03 0.0	Date 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	82 82 83 83 83 84 84 85 85 85 86 86 86 86 87 87 87 87 88 88	MIN 53 54 54 54 55 55 55 56 56 56 57 57 57 57 58 58 58 59 59	55.6 APRIL AVG 68 68 68 69 69 69 70 70 71 71 71 71 72 72 72 72 73 73 73 74	883 HDD 3 3 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1	26 CDD 5 6 6 6 6 6 7 7 7 7 7 7 8 8 8 8 8 9 9 9 9	PRCP 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.0	Date 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	90 90 91 91 91 92 92 93 93 93 93 94 94 95 95 95 96 96 97 97	MIN 61 62 62 63 63 63 64 64 65 65 66 67 67 67 68 68 68	MAY AVG 76 76 76 77 77 77 77 78 78 78 79 79 80 80 80 81 81 81 82 82 82 83	### ** ** ** * * * * * * * * *	CDD 11 11 12 12 12 13 13 13 13 14 14 15 15 16 16 16 17 17 17 18	PRC 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.0
MTH: 1 2 3 4 5 6 7 8 9 10 11 11 12 11 3 14 15 16 17 18 19 20 21 22 22 22 22 22 24 25 26	74 75 75 75 75 76 76 76 76 77 77 77 77 77 77 77 77 77	43.0 MIN 48 48 48 49 49 49 50 50 50 50 50 51 51 51 51 52 52 52	61 61 62 62 62 62 62 62 63 63 63 63 64 64 64 64 65 65 65 66 66	HDD 6 6 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	CDD 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 4 4 4 4	PRCP 0.02 0.02 0.02 0.03 0.03 0.03 0.03 0.0	Date 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	82 82 83 83 83 84 84 84 85 85 85 86 86 86 86 87 87 87 87 87 88 88 88 88	MIN 53 54 54 54 55 55 55 56 56 56 56 57 57 57 57 58 58 59 59 59	55.6 APRIL AVG 68 68 68 69 69 69 70 70 71 71 71 71 72 72 72 72 72 73 73 73 73 74 74 74	883 HDD 3 3 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1	26 CDD 5 6 6 6 6 6 7 7 7 7 7 8 8 8 8 8 9 9 9 9 10	PRCP 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.0	Date 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	90 90 91 91 91 92 92 93 93 93 93 94 94 95 95 96 96 97 97 98	MIN 61 62 62 63 63 63 64 64 65 65 66 67 67 67 67 68 68 68 69 69	76 76 77 77 77 77 77 78 78 78 79 79 79 80 80 80 81 81 81 82 82 82 82 83 83 83	## ** ** ** * 0 0 0 0 0 0 0 0 0	CDD 11 11 12 12 12 13 13 13 13 14 14 15 15 16 16 16 17 17 17 18 18 18	PRC 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.0
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MTH: 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 24 25 27 28 29	MAX 74 75 75 75 76 76 76 77 77 77 77	43.0 MIN 48 48 48 49 49 49 49 49 50 50 50 50 51 51 51 51 51 52 52 52 52 52 52 52 53	61 61 62 62 62 62 62 63 63 63 63 64 64 64 65 65 65 65 66 66 66 66 67 67	WINT HDD 6 6 5 5 5 5 5 5 5 5 6 6 6 7 7 7 7 7 7 7	CDD 2 2 2 2 2 2 2 3 3 3 3 3 3 4 4 4 4 4 4	PRCP 0.02 0.02 0.02 0.03 0.03 0.03 0.03 0.0	Date 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	82 82 82 83 83 83 84 84 85 85 85 85 86 86 86 87 87 87 87 87 88 88 88 89 89 90	MIN 53 54 54 54 55 55 55 56 56 56 56 57 57 57 57 58 58 58 59 59 60 60 60 61	55.6 APRIL AVG 68 68 68 69 69 69 70 70 71 71 71 71 72 72 72 72 72 73 73 73 74 74 74 75 75	## Number 1	26 CDD 5 6 6 6 6 6 6 7 7 7 7 7 8 8 8 8 8 9 9 9 9 9 10 10 10 10 10 10 10 10 10 10	PRCP 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.	Date 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	90 90 91 91 91 92 92 92 93 93 93 94 94 94 95 95 96 96 97 97 98 98 99	MIN 61 62 62 63 63 63 64 64 65 65 66 67 67 67 68 68 68 69 69 70 70	MAY AVG 76 76 77 77 77 77 78 78 78 79 79 79 80 80 81 81 81 82 82 82 82 83 83 83 84 84 84 85	### ** ** ** 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CDD 11 11 12 12 12 13 13 13 13 14 14 14 15 15 16 16 16 17 17 17 18 18 18 19 19 20	PRCI 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.0
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CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: NEEDLES AP EED CALIFORNIA Station Number: 046118

Latitude: 34 B 45* 58 (Longitude: -114 B 37* 24 (Elevation (feet): 88

Climate Division: CA 07 Southeast Desert Basins

Page 2 of 3

				_								Basins							Page	
Data	MAX	NAINI	JUNE	LIDD	CDD	DDCD	Data	NANY	NAINI	JULY	LIDD	CDD	DDCD	Data	MAX		UGUST		CDD	DDCD
Date 1	MAX 100	71	AVG 86	HDD 0	21	0.00	Date	MAX 108	MIN 80	94	HDD 0	CDD 29	9.00	Date 1	MAX 109	MIN 84	96	HDD 0	31	0.02
2	101	72	86	0	21	0.00	2	108	81	95	0	30	0.00	2	109	84	96	0	31	0.02
3	101	72	86	0	21	0.00	3	109	81	95	0	30	0.00	3	109	83	96	0	31	0.02
4	101	72	87	0	22	0.00	4	109	81	95	0	30	0.00	4	109	83	96	0	31	0.02
5	102	73	87	0	22	0.00	5	109	81	95	0	30	0.01	5	109	83	96	0	31	0.02
6 7	102 103	73 73	88 88	0	23 23	0.00	6 7	109 109	82 82	95 95	0	30 30	0.01	6 7	108 108	83 83	96 96	0	31 31	0.02
8	103	74	88	0	23	0.00	8	109	82	96	0	31	0.01	8	108	83	96	0	31	0.02
9	103	74	89	0	24	0.00	9	109	82	96	0	31	0.01	9	108	83	96	0	30	0.02
10	104	74	89	0	24	0.00		109	83	96	0	31	0.01		108	83	95	0	30	0.02
11	104	74	89	0	24	0.00		109	83	96	0	31	0.01		108	83	95	0	30	0.02
12 13	104 104	75 75	89 90	0	24 25	0.00		109 109	83 83	96 96	0	31 31	0.01		108 108	82 82	95 95	0	30 30	0.02
14	105	75	90	0	25	0.00		109	83	96	0	31	0.01		107	82	95	0	30	0.02
15	105	76	90	0	25	0.00		109	83	96	0	31	0.01		107	82	95	0	30	0.02
16	105	76	91	0	26	0.00	1	109	83	96	0	31	0.01		107	82	95	0	30	0.02
17	106	76	91	0	26	0.00	1	109	84	96	0	31	0.01	l	107	82	94	0	29	0.02
18 19	106 106	77 77	91 91	0	26 26	0.00	1	110 110	84 84	97 97	0	32 32	0.01		107 107	81 81	94 94	0	29 29	0.02
20	106	77	92	0	27	0.00	1	110	84	97	0	32	0.01	l	107	81	94	0	29	0.02
21	106	77	92	0	27	0.00		110	84	97	0	32	0.01	l	106	81	94	0	29	0.02
22	107	78	92	0	27	0.00		110	84	97	0	32		22	106	81	94	0	29	0.03
23	107	78	93	0	28	0.00		109	84	97	0	32	0.01		106	81	93	0	28	0.03
24 25	107 107	78 79	93 93	0	28 28	0.00		109 109	84 84	97 97	0	32 32	0.01		106 106	80 80	93 93	0	28 28	0.03
26	107	79	93	0	28	0.00		109	84	97	0	32	0.01		106	80	93	0	28	0.03
27	108	79	93	0	28	0.01	1	109	84	97	0	32	0.02	l	106	80	93	0	28	0.03
28	108	80	94	0	29	0.01	1	109	84	97	0	31	0.02	l	105	80	92	0	27	0.03
29	108	80	94	0	29	0.01	1	109	84	96	0	31	0.02	l	105	79	92	0	27	0.03
30	108	80	94	0	29	0.01	31	109 109	84 84	96 96	0	31 31	0.02		105 105	79 79	92 92	0	27 27	0.02
мшт.	104.8	75.8	90.3	0	759	0 04	MTH:		83.0	96.1	0	963	0.32		107.1	81.6	94.4	0	910	0.70
MILH:	104.0	10.0	90.5	0	100	0.04	11111.	T 0 2 • T		J U • ±	0	200	0.52						2 ± 0	
MIH:	104.0	73.0				ASON:		107.0	80.1	93.6		2632	1.06						310	
MIH:		SE	РТЕМВІ	SUMM ER	ER SE	ASON:		107.0	80.1	93.6 CTOBE I	0 R	2632	1.06			NC	VEMBE			
Date	MAX	SE MIN	PTEMBI AVG	SUMM ER HDD	ER SE	ASON:	Date	107.0 MAX	80.1 O MIN	93.6 CTOBE AVG	0 R HDD	2632 CDD	1.06 PRCP	Date	MAX	NC MIN	OVEMBE AVG	HDD	CDD	PRCP
Date 1	MAX 105	SE MIN	PTEMBI AVG	SUMM ER HDD	CDD	PRCP	Date 1	MAX 96	80.1 O MIN 68	93.6 CTOBE AVG 82	0 R HDD	2632 CDD	1.06 PRCP 0.01	Date 1	MAX 81	NC MIN 55	OVEMBE AVG	HDD 2	CDD 5	0.01
Date	MAX	SE MIN	PTEMBI AVG	SUMM ER HDD	ER SE	ASON:	Date	107.0 MAX	80.1 O MIN	93.6 CTOBE AVG	0 R HDD	2632 CDD	1.06 PRCP 0.01 0.01	Date	MAX	NC MIN	OVEMBE AVG	HDD	CDD	
Date 1 2	MAX 105 104	SE MIN 79 78	PTEMBI AVG 92 91	SUMM ER HDD	CDD 27 26	PRCP 0.02 0.02	Date	MAX 96 95	80.1 O MIN 68 68	93.6 CTOBE AVG 82 82	0 R HDD 0 0	2632 CDD 17 16	1.06 PRCP 0.01	Date	MAX 81 80	NC MIN 55 55	AVG 68 67	2 2	CDD 5 5 5	0.01
Date 1 2 3 4 5	MAX 105 104 104 104 104	\$E MIN 79 78 78 78 78	PTEMBI AVG 92 91 91 91 91	ER HDD	CDD 27 26 26 26 26 26	PRCP 0.02 0.02 0.02 0.02 0.02 0.02	Date 1 2 3 4 5	MAX 96 95 94 94	80.1 MIN 68 68 67 67 66	93.6 CTOBE AVG 82 82 81 81 80	0 R HDD 0 0 0	2632 CDD 17 16 16 15 15	PRCP 0.01 0.01 0.01 0.01 0.01	Date 1 2 3 4 5	MAX 81 80 80 79 79	NC MIN 55 55 54 54 53	68 67 67 67 66	2 2 2 2 3 3	CDD 5 5 4 4 4 4	0.01 0.01 0.01 0.01 0.01
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Date 1 2 3 4 5 6 7 8	MAX 105 104 104 104 104 104 103 103 103	\$E MIN 79 78 78 78 77 77 77 76 76	PTEMBI AVG 92 91 91 91 90 90 90 90	ER HDD	CDD 27 26 26 26 26 25 25 25	PRCP 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.0	Date 1 2 3 4 5 6 7 8 9 10	MAX 96 95 94 94 93 93	80.1 O MIN 68 68 67 66 66 66 66 65	93.6 CTOBEI AVG 82 81 81 80 80 79 79 78 78	0 R HDD 0 0 0 0 0	2632 CDD 17 16 16 15 15 14 14 13	PRCP 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.0	Date 1 2 3 4 5 6 7 8 9 10	MAX 81 80 80 79 79 78 78 77	NC MIN 55 55 54 54 53 53 53 53 52 52 52	68 67 67 67 66 66 65 65	2 2 2 3 3 3 3 3	CDD 5 5 4 4 4 4 3 3 3	0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01
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Date 1 2 3 4 5 6 7 8 9 10 11 12 13 14	MAX 105 104 104 104 103 103 103 102 102 101 101	\$E MIN	PTEMBI AVG 92 91 91 91 90 90 90 90 89 89 89 89 88 88 88	SUMM ER HDD	CDD 27 26 26 26 25 25 25 25 24 24 24 24 23 23 23	PRCP 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.0	Date 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MAX 96 95 94 94 93 93 93 92 92 91 90 90 89	80.1 MIN 68 68 67 66 66 66 65 64 64 63 63 63	93.6 CTOBE AVG 82 81 80 80 79 78 78 77 77 76 76 76 75	0 R HDD 0 0 0 0 0 0 0 0 0 0	2632 CDD 17 16 16 15 15 14 14 13 13 12 12 12 11	PRCP 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.0	Date 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MAX 81 80 80 79 78 78 77 76 76 76 75 75 74 74	NC MIN 55 55 54 54 53 53 53 52 52 52 52 51 51 50 50 49	AVG 68 67 67 66 66 65 65 64 64 64 63 63 63	HDD 2 2 2 3 3 3 3 3 4 4 4 4 5 5	CDD 5 5 4 4 4 3 3 3 2 2 2 2 2	0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01
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Date 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	MAX 105 104 104 104 103 103 103 103 102 102 102 101 101 100 100 99 99 98 98 98 98 98 97 97 96	\$EIMIN 79 78 78 78 78 77 77 77 76 76 76 76 75 75 75 74 74 73 73 73 72 72 72 71 70 70 69	PTEMBI AVG 92 91 91 91 90 90 90 90 89 89 88 88 88 88 87 87 87 86 86 86 86 85 85 84 84 84 83 83	SUMM ER HDD 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CDD 27 26 26 26 25 25 25 25 24 24 24 23 23 22 21 21 20 20 20 19 18 18 18	PRCP 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.	Date 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	MAX 96 95 94 94 93 93 92 92 91 90 89 88 88 87 87 86 86 85 85 84 84 83 82	80.1 MIN 68 68 67 66 66 66 65 64 64 63 63 62 62 61 60 60 60 59 59 58 57 57 56	93.6 CTOBEI AVG 82 82 81 80 80 79 78 78 78 77 76 76 76 75 74 74 74 73 73 72 72 71 71 70 69	0 R HDD 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2632 CDD 17 16 16 15 15 14 14 13 13 12 12 12 11 10 10 9 9 8 8 8 7 7 7 6 6 6	1.06 PRCP 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.0	Date 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	MAX 81 80 80 79 78 78 77 76 75 75 75 74 74 73 73 73 72 72 72 71 70 70 69 69 69	NC MIN 55 55 54 53 53 53 52 52 52 51 50 50 49 49 49 48 48 48 47 47 47 47 46 46 46	68 67 67 66 66 65 64 64 64 63 63 62 62 62 61 61 60 60 60 59 59 59 58 58 58 58	PDD 2 2 2 3 3 3 3 3 4 4 4 4 5 5 5 6 6 6 6 7 7 7 8 8	CDD 5 5 4 4 4 3 3 3 3 2 2 2 2 1 1 1 1 1 0 0 0 0 0 0 0 0	0.01 0.02 0.02 0.02 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.02 0.02 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.02 0.02 0.02 0.01 0.01 0.01 0.01 0.01 0.01
Date 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	MAX 105 104 104 104 103 103 103 102 102 101 101 101 100 100 100 100 99 98 98 98 98 97 97 97 96 96	\$E MIN	PTEMBI AVG 92 91 91 91 90 90 90 90 89 89 88 88 88 87 87 87 86 86 86 86 85 85 84 84 84 84 83 83 83	SUMM ER HDD 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CDD 27 26 26 26 25 25 25 25 24 24 24 23 23 23 22 21 21 20 20 19 19 18 18 18 17	PRCP 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.	Date 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	MAX 96 95 94 93 93 93 92 91 91 90 89 88 88 87 87 86 86 85 85 84 84 83 82 82 81	80.1 MIN 68 68 67 66 66 66 65 64 64 63 63 62 62 61 60 60 59 58 58 57 57 57 56 56	93.6 CTOBEI AVG 82 82 81 81 80 80 79 78 78 77 76 76 76 75 74 74 74 74 73 73 72 72 71 70 69 69 68	0 R HDD 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CDD 17 16 16 15 15 14 14 13 13 12 12 12 11 10 10 9 9 9 8 8 8 7 7 7 6 6 6 6 5 331 1060	1.06 PRCP 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.0	Date 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 MTH:	MAX 81 80 80 79 78 78 78 77 76 76 76 75 75 75 74 74 73 73 72 72 71 70 70 69 69 69 68	NC MIN 55 55 54 53 53 53 52 52 52 51 50 50 49 49 49 48 48 48 47 47 47 47 46 46 46 46	68 67 67 66 66 65 65 64 64 63 62 62 62 62 61 60 60 60 59 59 59 58 58 58 57 57	Phod 2 2 2 3 3 3 3 3 3 4 4 4 4 4 5 5 5 5 6 6 6 6 6 6 6 7 7 7 7 8 8 8 8 8	CDD 5 5 4 4 4 3 3 3 3 2 2 2 2 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0	0.01 0.02 0.02 0.02 0.02 0.01



CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: NEEDLES AP EED CALIFORNIA Station Number: 046118

Latitude: 34^B 45^* 58 (Longitude: -114^B 37^* 24 (Elevation (feet): 887

Climate Division: CA 07 Southeast Desert Basins

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	PRECIPITATION PROBABILITIES													
Probability	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC /	ANNUAL	
0.005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	
0.010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.23	
0.050	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.93	
0.100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.41	
0.200	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	3.09	
0.300	0.06	0.11	0.06	0.00	0.00	0.00	0.01	0.09	0.05	0.05	0.05	0.00	3.66	
0.400	0.17	0.23	0.18	0.01	0.00	0.00	0.04	0.20	0.13	0.12	0.12	0.04	4.20	
0.500	0.32	0.36	0.33	0.04	0.01	0.00	0.09	0.34	0.25	0.19	0.21	0.13	4.75	
0.600	0.53	0.54	0.52	0.10	0.05	0.00	0.18	0.54	0.41	0.27	0.31	0.27	5.35	
0.700	0.82	0.76	0.78	0.20	0.11	0.01	0.32	0.81	0.65	0.38	0.43	0.46	6.04	
0.800	1.26	1.09	1.14	0.36	0.20	0.05	0.53	1.20	1.01	0.54	0.61	0.76	6.92	
0.900	2.06	1.64	1.77	0.67	0.36	0.14	0.94	1.91	1.68	0.80	0.91	1.31	8.28	
0.950	2.89	2.21	2.40	1.01	0.52	0.25	1.38	2.64	2.39	1.06	1.21	1.88	9.52	
0.990	4.87	3.52	3.87	1.83	0.92	0.53	2.47	4.37	4.10	1.66	1.88	3.26	12.14	
0.995	5.74	4.10	4.51	2.20	1.09	0.66	2.95	5.13	4.86	1.92	2.17	3.87	13.21	
					DDEC	IDITATIO	N OHINT	II EQ						

	PRECIPITATION QUINTILES												
Level	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
0 <	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	
2	0.01	0.03	0.01	0.01	0.00	0.00	0.01	0.02	0.01	0.01	0.01	0.01	
	0.17	0.23	0.18	0.01	0.00	0.00	0.04	0.20	0.13	0.12	0.12	0.04	
3	0.18	0.24	0.19	0.02	0.01	0.00	0.05	0.21	0.14	0.13	0.13	0.05	
	0.53	0.54	0.52	0.10	0.05	0.00	0.18	0.54	0.41	0.27	0.31	0.27	
4	0.54	0.55	0.53	0.11	0.06	0.01	0.19	0.55	0.42	0.28	0.32	0.28	
	1.26	1.09	1.14	0.36	0.20	0.05	0.53	1.20	1.01	0.54	0.61	0.76	
5	1.27	1.10	1.15	0.37	0.21	0.06	0.54	1.21	1.02	0.55	0.62	0.77	
	3.64	3.60	3.19	2.34	0.75	0.48	2.21	3.37	4.72	1.14	1.53	2.60	
6 >	3.64	3.60	3.19	2.34	0.75	0.48	2.21	3.37	4.72	1.14	1.53	2.60	

Abbreviations:

MAX = Maximum Temperature (degrees Fahrenheit)
MIN = Minimum Temperature (degrees Fahrenheit)
AVG = Average Temperature (degrees Fahrenheit)

NOTES

HDD = Heating Degree Days (base 65) CDD = Cooling Degree Days (base 65) PRCP = Precipitation Amount (inches) MTH = Monthly Means / Totals SEASON = Seasonal Means / Totals ANNUAL = Annual Means / Totals

This publication presents daily temperature, precipitation, and heating and cooling degree day normals for stations based on the 1971-2000 record *adjusted* to the present station location. Stations contained in the monthly normals (Climatography of the United States No. 81) are included. Precipitation-only stations have no data in the temperature and degree day fields on Pages 1 and 2. Latitude and longitude values are presented in DD MM SS, where DD=Degrees, MM=Minutes, and SS=Seconds. Small differences between monthly values in this publication and the monthly normals presented in Climatography of the United States No.81 are attributable to smoothing techniques applied to this data set, as described below.

Daily Normals Tables

The daily values presented in these tables are not simple means of the observed daily values. They are interpolated from the much less variable monthly normals by use of the natural spline function. The procedure involved constructing a cumulative series of monthly sums from the monthly normals. The cumulative series was for a 24-month period (July, August, ..., December, January, ..., December, January, ..., June), so that the interpolating function could adequately fit the end points in the annual series. This process was applied independently to all six elements. No normal values for February 29 are included; in common practice, the normal values for the 28th are used for the 29th in each leap year. Thus, for leap years, the February monthly total degree days or precipitation are calculated by adding the daily value for the 28th to the monthly total. February temperature averages are likewise not adjusted for leap years. For most stations, the monthly heating and cooling degree day normals (base 65 degrees Fahrenheit) are derived from monthly normal temperature using an estimation technique developed by H.C.S. Thom. An asterisk (*) for a daily degree day value indicates a daily normal of less than one degree day, but not equal to zero. Seasonal means / totals correspond to the three months listed immediately above.

Precipitation Probabilities and Quintiles Tables:

The precipitation probabilities are the monthly precipitation totals that correspond to the indicated probability levels. The probability levels are based on the 1971-2000 historical sequential monthly precipitation. The historical precipitation data are the adjusted values from the monthly normals (Climatography of the United States No. 81).

When historical climate data are accumulated and examined, they generally follow a certain pattern called a statistical distribution. While temperature usually follows a Gaussian or bell-shaped distribution, precipitation does not because it is zero-bounded. Precipitation generally follows a Gamma distribution, where most values are near zero with rapidly diminishing higher values. Thus, the Gamma distribution was used to estimate the precipitation values in the probability and quintile tables published above. The probability table shows the amount of precipitation expected at fifteen probability levels (0.005, 0.01, 0.05, 0.10, 0.20, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 0.95, 0.99, and 0.995) for each month of the year and for the annual total. For example, if 1.77 inches corresponds to the 0.20 probability level, that means that on average, 2 out of 10 years will have 1.77 inches of precipitation in that month. It also means that, on average, 8 out of 10 years will have more than 1.77 inches of precipitation in that month.

The precipitation quintiles show the expected precipitation values at the five quintile levels for each of the twelve months: 1. First Quintile (0-20%); 2. Second Quintile (20-40%); 3. Third Quintile (40-60%); 4. Fourth Quintile (60-80%); 5. Fifth Quintile (80-100%). For example, if 2.91 and 4.07 inches are the bounds for the second quintile (level 2), then a monthly total precipitation amount for that month falling in the range 2.91 to 4.07 would be classified as a second quintile precipitation amount and that month would be considered relatively dry. The first line (level 0 <) in the table shows the minimum precipitation value derived from the historical record. Quintile level 0 would be used if a future precipitation observation is less than the 1971-2000 value. Level 6 > would be used if the observed value is more than the 1971-2000 maximum.

Release Date: May 15, 2002* National Climatic Data Center/NESDIS/NOAA, Asheville, North Carolina