

Table 344. Joint Percentage Frequency Distribution of Hourly Amounts of Solar Radiation on a Horizontal Surface in Langleys and 5.5-foot Temperature (°F) during the Hours 0400-2000 CST

Table with columns for Temperature (°F), Solar Radiation in Langleys (0-91-100), MISSING, TOTAL, and CUMUL TOTAL. Rows include temperature bins from ≤ -16 to ≥ 100 and solar radiation bins from 0 to 91-100. Includes sub-table for SEPTEMBER 1950-1964.

TOTAL OBSERVATIONS = 7650

Table with columns for Temperature (°F), Solar Radiation in Langleys (0-91-100), MISSING, TOTAL, and CUMUL TOTAL. Rows include temperature bins from ≤ -16 to ≥ 100 and solar radiation bins from 0 to 91-100. Includes sub-table for OCTOBER 1950-1964.

TOTAL OBSERVATIONS = 7905



Table 346. Joint Percentage Frequency Distribution of Hourly Amounts of Solar Radiation on a Horizontal Surface in Langleys and 5.5-foot Temperature (°F) during the Hours 0400-2000 CST

ALL YEARS 1950-1964

TEMPERATURE (°F)	SOLAR RADIATION IN LANGLEYS												TOTAL	CUMUL TOTAL	
	0	1-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100	MISSING			
≤ -16	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04
-15- -11	0.08	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.15
-10- -6	0.17	0.06	0.02	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.43
-5- -1	0.36	0.16	0.07	0.04	0.04	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.70	1.14
0-4	0.50	0.26	0.07	0.07	0.08	0.07	0.02	0.00	0.00	0.00	0.00	0.00	0.00	1.08	2.21
5-9	0.60	0.29	0.13	0.13	0.11	0.11	0.05	0.01	0.00	0.00	0.00	0.00	0.00	1.42	3.64
10-14	0.88	0.45	0.20	0.13	0.12	0.11	0.05	0.02	0.00	0.00	0.00	0.00	0.00	1.96	5.60
15-19	1.33	0.68	0.30	0.27	0.20	0.14	0.05	0.03	0.01	0.00	0.00	0.00	0.00	3.02	8.62
20-24	2.16	1.19	0.47	0.36	0.24	0.19	0.10	0.05	0.02	0.00	0.00	0.00	0.01	4.77	13.39
25-29	2.97	2.11	0.72	0.45	0.32	0.22	0.10	0.08	0.02	0.00	0.00	0.01	0.01	7.00	20.39
30-34	3.71	3.07	1.06	0.61	0.41	0.26	0.12	0.09	0.05	0.01	0.00	0.02	0.02	9.40	29.79
35-39	2.36	2.04	0.82	0.54	0.47	0.27	0.17	0.10	0.05	0.01	0.00	0.03	0.03	6.87	36.66
40-44	1.90	1.74	0.63	0.51	0.43	0.30	0.22	0.12	0.09	0.03	0.00	0.06	0.06	6.02	42.68
45-49	1.91	1.73	0.61	0.47	0.40	0.32	0.23	0.15	0.11	0.04	0.01	0.06	0.06	6.04	48.72
50-54	1.85	1.88	0.78	0.49	0.40	0.37	0.25	0.18	0.14	0.07	0.01	0.08	0.08	6.49	55.20
55-59	1.88	1.86	0.73	0.61	0.47	0.39	0.28	0.24	0.19	0.10	0.01	0.08	0.08	6.85	62.05
60-64	1.78	2.18	0.81	0.62	0.51	0.49	0.42	0.36	0.21	0.12	0.01	0.08	0.08	7.60	69.65
65-69	1.58	2.30	1.03	0.89	0.69	0.64	0.61	0.48	0.38	0.16	0.01	0.08	0.08	8.85	78.50
70-74	0.80	1.54	0.89	0.94	0.86	0.83	0.77	0.66	0.55	0.31	0.02	0.09	0.09	8.26	86.76
75-79	0.24	0.72	0.58	0.65	0.74	0.74	0.91	0.81	0.71	0.32	0.01	0.09	0.09	6.52	93.28
80-84	0.04	0.24	0.26	0.31	0.42	0.55	0.68	0.73	0.63	0.24	0.00	0.05	0.05	4.15	97.43
85-89	0.00	0.02	0.06	0.14	0.18	0.24	0.33	0.42	0.45	0.12	0.00	0.01	0.01	1.98	99.41
90-94	0.00	0.00	0.01	0.01	0.03	0.04	0.08	0.11	0.12	0.03	0.00	0.00	0.00	0.44	99.85
95-99	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.03	99.89
≥ 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	0.00	0.00	99.89
MISSING	0.04	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	100.00
TOTAL	27.16	24.55	10.26	8.28	7.15	6.33	5.47	4.66	3.75	1.58	0.08	0.74	0.74	100.00	
CUMUL TOTAL	27.16	51.71	61.97	70.25	77.39	83.72	89.19	93.85	97.60	99.18	99.26	100.00	100.00		

TOTAL OBSERVATIONS = 89012

Table 347. Joint Percentage Frequency Distribution of 144- minus 5.5-foot Temperature Difference (°F) and Hourly Amounts of Solar Radiation on a Horizontal Surface in Langleys during the Hours 0400-2000 CST

JANUARY 1952-1964

SOLAR RADIATION (LANGLEYS)	144 MINUS 5.5-FOOT TEMPERATURE DIFFERENCE (°F)											TOTAL	CUMUL TOTAL	
	≤-3.0	-2.9	-1.9	-0.9	0.1	1.1	2.1	3.1	4.1	6.1	>8.0 MISSING			
0	0.01	0.15	1.31	20.07	6.38	3.46	1.45	1.61	1.31	0.55	0.34	3.61	40.24	40.24
1-5	0.00	0.13	2.09	11.14	2.73	1.21	0.44	0.32	0.28	0.07	0.09	2.41	20.90	61.14
6-10	0.00	0.07	1.88	3.80	0.50	0.10	0.04	0.03	0.00	0.01	0.00	1.04	7.47	68.62
11-15	0.00	0.16	2.15	2.85	0.26	0.07	0.00	0.01	0.03	0.00	0.00	0.58	6.12	74.73
16-20	0.01	0.22	1.71	2.19	0.10	0.07	0.01	0.01	0.00	0.01	0.00	0.32	4.67	79.40
21-25	0.01	0.29	2.10	1.26	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.31	4.12	83.52
26-30	0.04	0.54	2.00	1.33	0.06	0.03	0.00	0.00	0.00	0.00	0.00	0.20	4.20	87.72
31-35	0.01	0.77	1.45	0.96	0.06	0.00	0.01	0.00	0.00	0.00	0.00	0.12	3.39	91.11
36-40	0.09	0.88	1.18	0.83	0.07	0.01	0.00	0.00	0.00	0.00	0.00	0.12	3.18	94.29
41-45	0.10	0.74	1.27	0.82	0.07	0.01	0.00	0.00	0.00	0.00	0.00	0.18	3.21	97.50
46-50	0.10	0.44	0.61	0.39	0.06	0.01	0.00	0.00	0.00	0.00	0.00	0.06	1.68	99.18
51-55	0.01	0.15	0.15	0.28	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.61	99.80
56-60	0.00	0.00	0.03	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	99.91
61-65	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	99.91
66-70	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	99.93
71-75	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	99.93
76-80	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	99.93
81-85	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	99.93
86-90	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	99.93
91-95	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	99.93
96-100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99.93
>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	0.00	99.93
MISSING	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99.93
TOTAL CUMUL	0.41	4.55	17.92	46.02	10.49	5.01	1.96	1.99	1.62	0.66	0.42	8.95	100.00	
TOTAL	0.41	4.96	22.89	68.91	79.40	84.41	86.37	88.35	89.97	90.63	91.05	100.00		

NUMBER OF OBSERVATIONS 6851

FEBRUARY 1952-1964

SOLAR RADIATION (LANGLEYS)	144 MINUS 5.5-FOOT TEMPERATURE DIFFERENCE (°F)											TOTAL	CUMUL TOTAL	
	≤-3.0	-2.9	-1.9	-0.9	0.1	1.1	2.1	3.1	4.1	6.1	>8.0 MISSING			
0	0.06	0.06	0.62	18.33	6.22	3.74	2.03	1.31	1.29	0.54	0.38	2.09	36.70	36.70
1-5	0.02	0.06	0.93	10.17	1.95	0.86	0.43	0.32	0.19	0.08	0.06	1.10	16.18	52.88
6-10	0.00	0.06	1.31	5.39	0.59	0.18	0.10	0.02	0.02	0.00	0.00	0.61	8.26	61.14
11-15	0.00	0.06	1.85	3.47	0.32	0.06	0.02	0.02	0.02	0.02	0.00	0.30	6.14	67.28
16-20	0.00	0.19	2.14	2.33	0.10	0.03	0.00	0.02	0.00	0.00	0.00	0.27	5.08	72.36
21-25	0.00	0.37	1.71	2.05	0.11	0.00	0.02	0.00	0.00	0.00	0.00	0.16	4.41	76.77
26-30	0.00	0.53	1.61	1.82	0.06	0.02	0.02	0.00	0.00	0.00	0.00	0.14	4.20	80.98
31-35	0.06	0.53	1.09	1.07	0.05	0.02	0.00	0.00	0.00	0.00	0.00	0.09	2.89	83.87
36-40	0.06	0.62	1.10	0.90	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.03	2.78	86.65
41-45	0.16	0.82	1.17	0.88	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.06	3.10	89.75
46-50	0.19	0.96	0.90	0.72	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.08	2.88	92.63
51-55	0.16	1.18	0.78	0.56	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.03	2.78	95.41
56-60	0.22	1.10	0.66	0.38	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.05	2.46	97.87
61-65	0.21	0.59	0.40	0.37	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.05	1.63	99.50
66-70	0.02	0.21	0.13	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	100.00
71-75	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	100.00
76-80	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	100.00
81-85	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	100.00
86-90	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	100.00
91-95	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	100.00
96-100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
>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	0.00	100.00
MISSING	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	100.00
TOTAL CUMUL	1.17	7.35	16.40	48.58	9.64	4.91	2.61	1.68	1.52	0.64	0.45	5.07	100.00	
TOTAL	1.17	8.52	24.92	73.50	83.14	88.04	90.65	92.33	93.85	94.49	94.93	100.00		

NUMBER OF OBSERVATIONS 6256

Table 348. Joint Percentage Frequency Distribution of 144- minus 5.5-foot Temperature Difference (°F) and Hourly Amounts of Solar Radiation on a Horizontal Surface in Langleys during the Hours 0400-2000 CST

		MARCH 1952-1964													
SOLAR RADIATION (LANGLEYS)		-144 MINUS 5.5-FOOT TEMPERATURE DIFFERENCE (°F)												TOTAL	CUMUL TOTAL
		≤-3.0	-2.9	-1.9	-0.9	0.1	1.1	2.1	3.1	4.1	6.1	>8.0	MISSING	TOTAL	CUMUL TOTAL
		-2.0	-1.0	-0.0	-1.0	-2.0	-3.0	-4.0	-6.0	-8.0					
0	0.07	0.04	0.20	12.20	5.09	3.33	2.03	1.49	1.42	0.57	0.32	2.99	29.76	29.76	
1-5	0.01	0.09	0.89	9.20	2.41	1.15	0.53	0.19	0.22	0.12	0.07	2.69	17.56	47.32	
6-10	0.00	0.10	1.88	3.63	0.45	0.22	0.09	0.01	0.03	0.01	0.00	0.90	7.34	54.66	
11-15	0.01	0.18	2.35	2.04	0.26	0.09	0.00	0.00	0.00	0.00	0.00	0.34	5.24	59.90	
16-20	0.03	0.45	2.04	0.19	0.03	0.01	0.01	0.01	0.01	0.00	0.00	0.41	5.55	65.45	
21-25	0.03	0.39	1.62	1.56	0.04	0.03	0.01	0.01	0.01	0.00	0.00	0.29	4.01	69.46	
26-30	0.03	0.69	1.62	0.89	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.22	3.47	72.94	
31-35	0.10	0.73	1.28	0.63	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.29	3.07	76.00	
36-40	0.18	1.07	1.26	0.77	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.41	3.74	79.74	
41-45	0.20	1.01	0.95	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	3.05	82.79	
46-50	0.29	0.90	0.80	0.44	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.25	2.70	85.49	
51-55	0.41	0.96	0.54	0.36	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.29	2.60	88.09	
56-60	0.45	1.24	0.58	0.53	0.06	0.01	0.00	0.00	0.00	0.00	0.00	0.36	3.24	91.33	
61-65	0.70	1.07	0.38	0.31	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.16	2.64	93.97	
66-70	0.72	1.05	0.28	0.35	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.16	2.61	96.58	
71-75	0.39	0.93	0.29	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	2.01	98.60	
76-80	0.20	0.57	0.07	0.15	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.01	1.05	99.65	
81-85	0.00	0.18	0.03	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	99.90	
86-90	0.00	0.00	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	99.94	
91-95	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	99.94	
96-100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99.94	
>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	0.00	99.94	
MISSING	0.00	0.00	0.01	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99.94	
TOTAL CUMUL TOTAL	3.84	11.65	16.95	36.51	8.82	4.86	2.67	1.72	1.69	0.70	0.39	10.20	100.00	100.00	
TOTAL	3.84	15.49	32.43	68.94	77.76	82.62	85.29	87.01	88.70	89.40	89.80	100.00			

NUMBER OF OBSERVATIONS 6851

		APRIL 1952-1964													
SOLAR RADIATION (LANGLEYS)		-144 MINUS 5.5-FOOT TEMPERATURE DIFFERENCE (°F)												TOTAL	CUMUL TOTAL
		≤-3.0	-2.9	-1.9	-0.9	0.1	1.1	2.1	3.1	4.1	6.1	>8.0	MISSING	TOTAL	CUMUL TOTAL
		-2.0	-1.0	-0.0	-1.0	-2.0	-3.0	-4.0	-6.0	-8.0					
0	0.00	0.06	0.21	7.36	3.29	2.41	1.49	1.16	1.33	0.57	0.60	3.97	22.46	22.46	
1-5	0.02	0.06	0.65	7.15	1.87	1.39	0.68	0.53	0.41	0.18	0.08	3.50	16.50	38.96	
6-10	0.02	0.08	1.36	3.12	0.94	0.38	0.11	0.05	0.05	0.00	0.00	1.67	7.75	46.71	
11-15	0.00	0.15	2.01	2.25	0.56	0.14	0.09	0.00	0.00	0.00	0.00	1.18	6.37	53.08	
16-20	0.02	0.38	1.90	1.76	0.15	0.03	0.00	0.00	0.00	0.00	0.00	0.87	5.11	58.19	
21-25	0.08	0.75	1.52	1.45	0.14	0.02	0.00	0.00	0.00	0.00	0.00	0.42	4.37	62.56	
26-30	0.12	0.77	1.40	0.95	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.50	3.88	66.44	
31-35	0.29	1.10	1.12	0.80	0.12	0.05	0.03	0.00	0.00	0.00	0.00	0.35	3.85	70.29	
36-40	0.32	0.95	0.84	0.69	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.23	3.06	73.35	
41-45	0.27	1.15	0.97	0.42	0.03	0.00	0.02	0.00	0.00	0.00	0.00	0.18	3.03	76.38	
46-50	0.51	0.86	0.63	0.47	0.05	0.02	0.03	0.00	0.00	0.00	0.00	0.18	2.75	79.13	
51-55	0.68	1.01	0.65	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	2.97	82.10	
56-60	0.83	1.13	0.38	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	2.84	84.93	
61-65	0.92	0.89	0.41	0.32	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.17	2.71	87.65	
66-70	1.21	0.92	0.33	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	3.00	90.65	
71-75	1.42	1.00	0.20	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	3.15	93.80	
76-80	1.51	0.71	0.33	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	3.17	96.97	
81-85	0.65	0.72	0.18	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	1.95	98.91	
86-90	0.21	0.26	0.06	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	99.58	
91-95	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	99.59	
96-100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99.59	
>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	0.00	99.59	
MISSING	0.00	0.08	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.41	100.00	
TOTAL CUMUL TOTAL	9.05	13.03	15.14	29.34	7.32	4.42	2.46	1.73	1.78	0.75	0.68	14.30	100.00	100.00	
TOTAL	9.05	22.08	37.22	66.56	73.88	78.30	80.75	82.49	84.27	85.02	85.70	100.00			

NUMBER OF OBSERVATIONS 6630

Table 349. Joint Percentage Frequency Distribution of 144- minus 5.5-foot Temperature Difference (°F) and Hourly Amounts of Solar Radiation on a Horizontal Surface in Langleys during the Hours 0400-2000 CST

SOLAR RADIATION (LANGLEYS)		MAY 1952-1964												TOTAL	CUMUL TOTAL		
		144 MINUS 5.5-FOOT TEMPERATURE DIFFERENCE (°F)															
		-3.0	-2.9	-1.9	-0.9	0.1	1.1	2.1	3.1	4.1	6.1	>8.0	MISSING				
		-2.0	-1.0	-0.0	-1.0	-2.0	-3.0	-4.0	-6.0	-8.0							
0	0.00	0.01	0.06	3.34	2.57	2.23	1.30	0.89	1.09	0.61	0.55	3.09	15.76	15.76			
1-5	0.00	0.03	0.36	4.89	2.20	1.58	0.76	0.64	0.53	0.10	0.19	3.12	14.41	30.17			
6-10	0.00	0.09	0.86	3.63	0.85	0.28	0.16	0.13	0.13	0.04	0.00	1.94	8.03	38.20			
11-15	0.00	0.13	1.47	2.17	0.72	0.32	0.03	0.01	0.00	0.00	0.00	1.18	5.47	43.67			
16-20	0.00	0.35	1.88	1.77	0.25	0.28	0.06	0.01	0.00	0.00	0.00	0.99	5.62	49.29			
21-25	0.04	0.44	1.50	1.24	0.19	0.13	0.03	0.00	0.00	0.00	0.00	0.72	5.12	54.42			
26-30	0.06	0.41	1.23	1.20	0.16	0.07	0.00	0.00	0.00	0.00	0.00	0.60	4.09	58.50			
31-35	0.07	0.61	1.37	1.01	0.16	0.04	0.00	0.00	0.00	0.00	0.00	0.73	3.82	62.33			
36-40	0.19	0.95	1.24	0.70	0.12	0.06	0.01	0.00	0.00	0.00	0.00	0.50	3.75	66.08			
41-45	0.09	0.89	0.98	0.57	0.04	0.06	0.00	0.00	0.01	0.00	0.00	0.45	3.68	69.76			
46-50	0.26	1.09	0.96	0.70	0.13	0.01	0.00	0.00	0.00	0.00	0.00	0.48	3.07	72.82			
51-55	0.39	0.93	0.93	0.57	0.13	0.01	0.00	0.00	0.00	0.00	0.00	0.35	3.52	76.34			
56-60	0.51	1.43	0.82	0.41	0.07	0.04	0.00	0.00	0.00	0.00	0.00	0.29	3.24	79.58			
61-65	0.47	1.50	0.83	0.58	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.38	3.58	83.16			
66-70	0.66	1.34	0.76	0.39	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.35	3.77	86.92			
71-75	0.60	1.66	0.70	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	3.49	90.41			
76-80	0.80	1.63	0.57	0.35	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.44	3.80	94.21			
81-85	0.22	0.93	0.31	0.25	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.10	3.47	97.68			
86-90	0.04	0.31	0.03	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	1.74	99.42			
91-95	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.51	99.93			
96-100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99.96			
>100	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	99.96			
MISSING	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	99.96			
TOTAL	4.41	14.79	17.84	26.36	8.12	5.12	2.35	1.69	1.77	0.76	0.74	16.06	100.00	100.00			
CUMUL TOTAL	4.41	19.19	37.03	63.39	71.51	76.63	78.98	80.67	82.44	83.20	83.94	100.00					

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SOLAR RADIATION (LANGLEYS)		JUNE 1952-1964												TOTAL	CUMUL TOTAL		
		144 MINUS 5.5-FOOT TEMPERATURE DIFFERENCE (°F)															
		-3.0	-2.9	-1.9	-0.9	0.1	1.1	2.1	3.1	4.1	6.1	>8.0	MISSING				
		-2.0	-1.0	-0.0	-1.0	-2.0	-3.0	-4.0	-6.0	-8.0							
0	0.00	0.00	0.02	2.17	1.22	1.48	1.13	0.84	1.03	0.60	0.78	1.49	10.77	10.77			
1-5	0.06	0.00	0.18	3.68	1.95	1.84	1.36	1.06	1.19	0.56	0.50	2.13	14.49	25.26			
6-10	0.02	0.09	0.83	3.08	1.18	1.10	0.66	0.39	0.24	0.02	0.02	0.92	8.54	33.80			
11-15	0.00	0.08	0.90	1.84	0.39	0.20	0.08	0.09	0.02	0.00	0.00	0.65	4.24	38.04			
16-20	0.00	0.14	0.94	1.63	0.44	0.32	0.08	0.03	0.02	0.00	0.00	0.35	3.92	41.96			
21-25	0.02	0.41	1.28	1.87	0.69	0.39	0.02	0.00	0.00	0.00	0.00	0.39	5.07	47.03			
26-30	0.02	0.89	1.64	1.66	0.18	0.14	0.05	0.00	0.02	0.00	0.00	0.23	4.81	51.84			
31-35	0.00	0.71	1.06	1.09	0.21	0.03	0.02	0.00	0.00	0.00	0.00	0.20	3.35	55.19			
36-40	0.08	0.97	0.97	1.04	0.26	0.03	0.02	0.00	0.00	0.00	0.00	0.26	3.60	58.79			
41-45	0.14	1.40	1.24	1.34	0.23	0.09	0.00	0.00	0.00	0.00	0.00	0.17	4.60	63.39			
46-50	0.29	1.21	1.07	0.81	0.09	0.03	0.02	0.00	0.00	0.00	0.00	0.18	3.70	67.09			
51-55	0.30	1.37	1.09	0.89	0.05	0.03	0.02	0.00	0.00	0.00	0.00	0.11	3.83	70.92			
56-60	0.51	1.69	1.13	0.87	0.21	0.06	0.00	0.00	0.00	0.00	0.00	0.20	4.68	75.60			
61-65	0.68	1.16	1.28	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	4.12	79.71			
66-70	0.69	1.78	1.09	0.66	0.05	0.02	0.00	0.00	0.00	0.00	0.00	0.05	4.33	84.04			
71-75	0.68	1.72	1.39	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	4.69	88.73			
76-80	0.83	2.04	1.34	0.72	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.08	5.04	93.77			
81-85	0.81	1.43	0.98	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	3.77	97.54			
86-90	0.24	0.62	0.57	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.79	99.34			
91-95	0.02	0.11	0.06	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29	99.62			
96-100	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99.65			
>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	0.00	99.65			
MISSING	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	99.65			
TOTAL	5.37	17.80	19.05	26.33	7.16	5.75	3.41	2.41	2.50	1.18	1.30	7.74	100.00	100.00			
CUMUL TOTAL	5.37	23.17	42.22	68.55	75.72	81.46	84.87	87.29	89.79	90.97	92.26	100.00					

NUMBER OF OBSERVATIONS 6630

Table 350. Joint Percentage Frequency Distribution of 144- minus 5.5-foot Temperature Difference (°F) and Hourly Amounts of Solar Radiation on a Horizontal Surface in Langleys during the Hours 0400-2000 CST

JULY 1951-1964

SOLAR RADIATION (LANGLEYS)	144 MINUS 5.5-FOOT TEMPERATURE DIFFERENCE (°F)												TOTAL	CUMUL TOTAL
	≤-3.0	-2.9 -2.0	-1.9 -1.0	-0.9 -0.0	0.1 -1.0	1.1 -2.0	2.1 -3.0	3.1 -4.0	4.1 -6.0	6.1 -8.0	>8.0	MISSING		
0	0.00	0.01	0.07	2.37	1.68	1.68	0.94	1.33	1.61	0.79	0.85	1.86	13.19	13.19
1-5	0.01	0.00	0.23	4.61	1.67	1.65	1.04	0.84	0.84	0.43	0.24	2.58	14.15	27.34
6-10	0.01	0.03	0.64	3.56	0.89	0.96	0.49	0.37	0.23	0.03	0.00	1.21	8.42	35.75
11-15	0.00	0.09	0.76	1.57	0.27	0.11	0.04	0.01	0.00	0.00	0.00	0.64	3.50	39.25
16-20	0.03	0.27	1.30	2.25	0.75	0.16	0.01	0.00	0.00	0.00	0.00	0.39	5.16	44.42
21-25	0.01	0.54	1.38	2.44	0.54	0.19	0.03	0.00	0.00	0.00	0.00	0.53	5.67	50.08
26-30	0.03	0.54	0.85	1.67	0.15	0.01	0.01	0.00	0.00	0.00	0.00	0.37	3.63	53.71
31-35	0.01	0.83	1.08	1.15	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.28	3.50	57.21
36-40	0.18	1.21	0.92	1.64	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.31	4.40	61.62
41-45	0.16	0.95	1.23	1.79	0.14	0.01	0.01	0.00	0.00	0.00	0.00	0.30	4.59	66.21
46-50	0.23	1.02	0.94	0.84	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.18	3.25	69.46
51-55	0.38	1.69	0.87	0.89	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.26	4.12	73.58
56-60	0.50	1.45	1.23	1.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	4.76	78.34
61-65	0.60	1.60	0.92	0.81	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.15	4.11	82.45
66-70	0.76	1.44	1.11	0.50	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.11	3.94	86.39
71-75	0.91	1.56	1.15	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	4.77	91.16
76-80	0.75	1.23	1.11	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	4.01	95.17
81-85	0.49	0.89	1.04	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	3.39	98.56
86-90	0.05	0.28	0.23	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	1.06	99.62
91-95	0.00	0.01	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	99.70
96-100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99.70
>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	0.00	99.70
MISSING	0.00	0.01	0.05	0.12	0.03	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	99.70
TOTAL CUMUL	5.11	15.67	17.13	30.59	6.51	4.81	2.60	2.55	2.68	1.25	1.10	10.00	0.30	100.00
TOTAL	5.11	20.78	37.91	68.50	75.01	79.82	82.42	84.97	87.65	88.90	90.00	100.00		

NUMBER OF OBSERVATIONS 7378

AUGUST 1951-1964

SOLAR RADIATION (LANGLEYS)	144 MINUS 5.5-FOOT TEMPERATURE DIFFERENCE (°F)												TOTAL	CUMUL TOTAL
	≤-3.0	-2.9 -2.0	-1.9 -1.0	-0.9 -0.0	0.1 -1.0	1.1 -2.0	2.1 -3.0	3.1 -4.0	4.1 -6.0	6.1 -8.0	>8.0	MISSING		
0	0.00	0.05	0.03	4.19	2.10	2.34	1.73	1.90	2.10	1.29	1.07	1.42	18.23	18.23
1-5	0.00	0.07	0.23	4.66	1.71	2.17	1.23	1.19	1.07	0.38	0.23	1.60	14.54	32.77
6-10	0.03	0.14	0.53	2.21	0.65	0.35	0.37	0.12	0.00	0.01	0.00	0.56	4.96	37.73
11-15	0.05	0.16	1.06	2.58	0.85	0.66	0.09	0.04	0.00	0.00	0.00	0.47	5.98	43.71
16-20	0.01	0.20	1.12	2.68	0.65	0.12	0.03	0.00	0.00	0.00	0.00	0.41	5.23	48.94
21-25	0.01	0.39	1.14	1.61	0.33	0.11	0.00	0.00	0.00	0.00	0.00	0.16	3.75	52.70
26-30	0.04	0.77	1.12	1.68	0.23	0.03	0.00	0.00	0.00	0.00	0.00	0.19	4.07	56.76
31-35	0.11	0.91	1.69	1.67	0.04	0.03	0.00	0.00	0.00	0.00	0.00	0.15	4.59	61.36
36-40	0.12	1.15	1.37	1.55	0.05	0.01	0.00	0.00	0.00	0.00	0.00	0.18	4.43	65.79
41-45	0.27	1.06	1.00	0.99	0.03	0.00	0.01	0.00	0.00	0.00	0.00	0.08	3.44	69.23
46-50	0.43	1.68	1.08	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.07	4.28	73.52
51-55	0.39	1.30	1.45	1.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	4.35	77.87
56-60	0.52	1.67	1.27	0.83	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.07	4.36	82.23
61-65	0.65	1.71	0.92	0.81	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.14	4.24	86.47
66-70	0.98	1.65	1.22	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	4.72	91.19
71-75	0.96	1.80	0.68	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	4.20	95.39
76-80	0.62	0.99	0.75	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	2.95	98.35
81-85	0.07	0.38	0.38	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.30	99.65
86-90	0.01	0.03	0.09	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	99.84
91-95	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	99.86
96-100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99.86
>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	0.00	99.86
MISSING	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	99.86
TOTAL CUMUL	5.29	16.12	17.16	30.08	6.68	5.83	3.48	3.25	3.17	1.68	1.30	5.96	0.14	100.00
TOTAL	5.29	21.40	38.56	68.64	75.32	81.15	84.63	87.88	91.05	92.74	94.04	100.00		

NUMBER OF OBSERVATIONS 7378

Table 351. Joint Percentage Frequency Distribution of 144- minus 5.5-foot Temperature Difference (°F) and Hourly Amounts of Solar Radiation on a Horizontal Surface in Langleys during the Hours 0400-2000 CST

		SEPTEMBER 1951-1964													
		144 MINUS 5.5-FOOT TEMPERATURE DIFFERENCE (°F)													
SOLAR RADIATION (LANGLEYS)		≤-3.0	-2.9	-1.9	-0.9	0.1	1.1	2.1	3.1	4.1	6.1	>8.0	MISSING	TOTAL	CUMUL TOTAL
		-2.0	-1.0	-0.0	-1.0	-2.0	-3.0	-4.0	-6.0	-8.0					
0		0.01	0.06	0.07	5.88	3.15	2.25	2.31	2.34	3.31	2.02	1.26	1.90	24.57	24.57
1-5		0.01	0.01	0.39	4.61	1.81	1.43	1.08	1.06	1.13	0.53	0.28	1.83	14.19	38.75
6-10		0.04	0.07	0.80	3.01	0.87	0.59	0.27	0.32	0.11	0.01	0.00	0.59	6.68	45.43
11-15		0.00	0.20	1.08	2.62	0.60	0.34	0.13	0.06	0.01	0.00	0.00	0.48	5.50	50.94
16-20		0.01	0.20	1.19	1.53	0.50	0.18	0.07	0.00	0.00	0.00	0.00	0.21	3.89	54.83
21-25		0.00	0.57	1.47	1.69	0.22	0.08	0.03	0.00	0.00	0.00	0.00	0.17	4.24	59.08
26-30		0.07	0.90	1.46	1.55	0.22	0.01	0.01	0.00	0.00	0.00	0.00	0.18	4.41	63.49
31-35		0.03	0.71	1.32	1.32	0.13	0.06	0.00	0.00	0.00	0.00	0.00	0.10	3.66	67.14
36-40		0.11	0.98	1.33	1.08	0.08	0.01	0.00	0.00	0.00	0.00	0.00	0.10	3.70	70.84
41-45		0.46	1.22	1.25	0.97	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.10	4.05	74.89
46-50		0.34	1.16	1.22	1.15	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.03	3.92	78.81
51-55		0.45	1.46	0.94	0.74	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.13	3.74	82.55
56-60		0.76	1.50	0.85	1.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.06	4.20	86.75
61-65		1.18	1.69	0.88	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	4.68	91.43
66-70		0.88	1.58	0.76	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	4.20	95.63
71-75		0.63	0.90	0.57	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	3.07	98.70
76-80		0.10	0.39	0.21	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	1.16	99.86
81-85		0.00	0.07	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	99.99
86-90		0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	100.00
91-95		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	100.00
96-100		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
>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	0.00	100.00
MISSING		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	100.00
TOTAL		5.10	13.67	15.83	30.24	7.70	4.97	3.89	3.78	4.57	2.56	1.54	6.15	100.00	
CUMUL TOTAL		5.10	18.77	34.59	64.83	72.54	77.51	81.40	85.18	89.75	92.31	93.85	100.00		

NUMBER OF OBSERVATIONS 7140

		OCTOBER 1951-1964													
		144 MINUS 5.5-FOOT TEMPERATURE DIFFERENCE (°F)													
SOLAR RADIATION (LANGLEYS)		≤-3.0	-2.9	-1.9	-0.9	0.1	1.1	2.1	3.1	4.1	6.1	>8.0	MISSING	TOTAL	CUMUL TOTAL
		-2.0	-1.0	-0.0	-1.0	-2.0	-3.0	-4.0	-6.0	-8.0					
0		0.01	0.00	0.11	9.20	4.28	3.55	2.36	2.83	3.32	1.82	2.14	3.46	33.08	33.08
1-5		0.01	0.08	0.70	5.71	1.91	1.52	1.04	1.04	0.79	0.45	0.28	2.85	16.39	49.47
6-10		0.01	0.04	0.95	3.23	0.46	0.49	0.23	0.16	0.05	0.01	0.00	0.92	6.56	56.03
11-15		0.01	0.05	1.27	2.10	0.50	0.19	0.07	0.03	0.03	0.01	0.00	0.41	4.68	60.71
16-20		0.00	0.31	1.69	2.52	0.42	0.11	0.00	0.00	0.00	0.00	0.00	0.20	5.26	65.97
21-25		0.09	0.34	1.36	1.52	0.16	0.07	0.01	0.00	0.00	0.00	0.00	0.18	3.73	69.69
26-30		0.07	0.58	1.26	1.60	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.12	3.82	73.52
31-35		0.07	0.92	1.18	1.52	0.07	0.01	0.00	0.00	0.00	0.00	0.00	0.09	3.86	77.38
36-40		0.11	1.08	1.07	1.12	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.08	3.52	80.90
41-45		0.41	1.15	1.25	0.89	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.08	3.84	84.74
46-50		0.53	1.68	0.96	0.92	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.05	4.16	88.90
51-55		0.75	1.95	0.92	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	4.53	93.43
56-60		0.66	1.29	0.52	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	3.25	96.68
61-65		0.50	0.53	0.18	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	1.76	98.44
66-70		0.14	0.19	0.09	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.75	99.19
71-75		0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	99.21
76-80		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	99.21
81-85		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	99.21
86-90		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	99.21
91-95		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	99.21
96-100		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99.21
>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	0.00	99.21
MISSING		0.16	0.08	0.07	0.33	0.00	0.01	0.00	0.04	0.04	0.00	0.05	0.00	0.79	100.00
TOTAL		3.54	10.30	13.58	32.96	8.12	5.95	3.71	4.11	4.23	2.29	2.48	8.73	100.00	
CUMUL TOTAL		3.54	13.84	27.42	60.38	68.50	74.45	78.16	82.27	86.50	88.79	91.27	100.00		

NUMBER OF OBSERVATIONS 7378



Table 352. Joint Percentage Frequency Distribution of 144- minus 5.5-foot Temperature Difference (°F) and Hourly Amounts of Solar Radiation on a Horizontal Surface in Langleys during the Hours 0400-2000 CST

		NOVEMBER 1951-1964													
SOLAR RADIATION (LANGLEYS)		144 MINUS 5.5-FOOT TEMPERATURE DIFFERENCE (°F)													
		≤-3.0	-2.9	-1.9	-0.9	0.1	1.1	2.1	3.1	4.1	6.1	>8.0	MISSING	TOTAL	CUMUL TOTAL
0	0.00	0.11	0.31	17.07	6.08	3.98	2.38	2.49	2.16	0.81	0.53	3.63	39.55	39.55	
1-5	0.07	0.04	1.43	9.68	2.16	1.16	0.81	0.66	0.64	0.11	0.13	3.24	20.13	59.68	
6-10	0.00	0.10	2.17	4.17	1.01	0.35	0.04	0.01	0.01	0.00	0.01	0.70	8.59	68.26	
11-15	0.01	0.15	2.11	2.31	0.35	0.17	0.01	0.00	0.00	0.00	0.00	0.31	5.45	73.71	
16-20	0.01	0.49	2.09	1.69	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.17	4.50	78.21	
21-25	0.03	0.59	1.92	1.51	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.15	4.29	82.49	
26-30	0.10	0.95	1.16	1.13	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.07	3.45	85.94	
31-35	0.15	1.68	0.95	0.88	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.10	3.80	89.73	
36-40	0.25	1.57	1.06	0.77	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.10	3.77	93.50	
41-45	0.45	1.53	0.62	0.60	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.10	3.26	96.76	
46-50	0.18	0.76	0.57	0.66	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.04	3.26	96.76	
51-55	0.04	0.21	0.08	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	2.23	98.99	
56-60	0.00	0.01	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56	99.55	
61-65	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	99.69	
66-70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	99.71	
71-75	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	99.71	
76-80	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	99.71	
81-85	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	99.71	
86-90	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	99.71	
91-95	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	99.71	
96-100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99.71	
>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	0.00	99.71	
MISSING	0.03	0.01	0.01	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.29	100.00	
TOTAL	1.33	8.21	14.51	40.99	9.80	5.70	3.25	3.17	2.82	0.94	0.67	8.61	100.00		
CUMUL TOTAL	1.33	9.54	24.05	65.04	74.85	80.55	83.80	86.96	89.78	90.71	91.39	100.00			

NUMBER OF OBSERVATIONS 7140

		DECEMBER 1951-1964													
SOLAR RADIATION (LANGLEYS)		144 MINUS 5.5-FOOT TEMPERATURE DIFFERENCE (°F)													
		≤-3.0	-2.9	-1.9	-0.9	0.1	1.1	2.1	3.1	4.1	6.1	>8.0	MISSING	TOTAL	CUMUL TOTAL
0	0.00	0.09	0.52	21.58	6.25	3.66	1.55	1.02	1.17	0.38	0.39	4.38	40.97	40.97	
1-5	0.00	0.05	1.76	13.92	1.92	1.15	0.38	0.39	0.35	0.16	0.07	3.28	23.45	64.42	
6-10	0.00	0.07	2.14	4.51	0.68	0.28	0.01	0.01	0.00	0.00	0.00	1.10	8.81	73.23	
11-15	0.00	0.18	2.34	2.56	0.14	0.03	0.00	0.00	0.00	0.00	0.01	0.54	5.80	79.03	
16-20	0.01	0.33	2.02	1.95	0.11	0.01	0.01	0.00	0.00	0.00	0.00	0.35	4.81	83.84	
21-25	0.03	0.52	1.68	1.36	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.42	4.05	87.90	
26-30	0.03	0.84	1.53	0.88	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.23	3.55	91.45	
31-35	0.04	1.12	1.18	0.84	0.04	0.01	0.01	0.00	0.00	0.00	0.00	0.33	3.58	95.03	
36-40	0.05	1.15	1.04	0.69	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.11	3.08	98.10	
41-45	0.01	0.53	0.38	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	1.56	99.66	
46-50	0.00	0.01	0.12	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	99.97	
51-55	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	100.00	
56-60	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	100.00	
61-65	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	100.00	
66-70	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	100.00	
71-75	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	100.00	
76-80	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	100.00	
81-85	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	100.00	
86-90	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	100.00	
91-95	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	100.00	
96-100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	
>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	0.00	100.00	
MISSING	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	100.00	
TOTAL	0.18	4.89	14.72	49.06	9.26	5.15	1.97	1.42	1.52	0.56	0.47	10.80	100.00		
CUMUL TOTAL	0.18	5.07	19.79	68.85	78.11	83.26	85.23	86.65	88.17	88.72	89.20	100.00			

NUMBER OF OBSERVATIONS 7378

Table 353. Joint Percentage Frequency Distribution of Hourly Amounts of Solar Radiation on a Horizontal Surface in Langleys and 144- minus 5.5-foot Temperature Difference ( $^{\circ}\text{F}$ ) during the Hours 0400-2000 CST

SOLAR RADIATION (LANGLEYS)	ALL YEARS 1951-1964													TOTAL	CUMUL TOTAL
	$\leq -3.0$	-2.9 -2.0	-1.9 -1.0	-144 MINUS 5.5-FOOT TEMPERATURE DIFFERENCE ( $^{\circ}\text{F}$ ) -0.9 -0.0	0.1 -1.0	1.1 -2.0	2.1 -3.0	3.1 -4.0	4.1 -6.0	6.1 -8.0	>8.0	MISSING			
0	0.01	0.05	0.29	10.27	4.01	2.84	1.73	1.62	1.78	0.89	0.78	2.83	27.11	27.11	
1-5	0.02	0.05	0.32	7.43	2.02	1.43	0.82	0.70	0.64	0.27	0.19	2.54	16.93	44.04	
6-10	0.01	0.07	1.28	3.60	0.75	0.44	0.21	0.14	0.07	0.01	0.00	1.01	7.60	51.64	
11-15	0.01	0.13	1.53	2.39	0.44	0.20	0.05	0.02	0.01	0.00	0.00	0.59	5.36	57.00	
16-20	0.01	0.28	1.66	2.06	0.34	0.11	0.02	0.01	0.00	0.00	0.00	0.41	4.90	61.90	
21-25	0.03	0.46	1.58	1.67	0.23	0.08	0.01	0.00	0.00	0.00	0.00	0.32	4.40	66.30	
26-30	0.05	0.70	1.42	1.37	0.13	0.03	0.01	0.00	0.00	0.00	0.00	0.25	3.96	70.25	
31-35	0.08	0.88	1.22	1.10	0.09	0.02	0.01	0.00	0.00	0.00	0.00	0.24	3.63	73.88	
36-40	0.13	1.03	1.13	1.01	0.08	0.01	0.00	0.00	0.00	0.00	0.00	0.24	3.63	73.88	
41-45	0.24	1.04	1.04	0.89	0.06	0.02	0.00	0.00	0.00	0.00	0.00	0.20	3.60	77.48	
46-50	0.27	0.97	0.82	0.68	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.16	3.45	80.93	
51-55	0.32	1.03	0.70	0.59	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.13	2.91	83.84	
56-60	0.40	1.00	0.63	0.57	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.13	2.81	86.65	
61-65	0.49	0.89	0.51	0.44	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.12	2.77	89.42	
66-70	0.49	0.86	0.49	0.39	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.11	2.46	91.88	
71-75	0.47	0.77	0.42	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	2.32	94.20	
76-80	0.38	0.63	0.38	0.28	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.09	2.12	96.33	
81-85	0.23	0.44	0.27	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	1.76	98.08	
86-90	0.06	0.17	0.10	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	1.18	99.26	
91-95	0.00	0.04	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.45	99.71	
96-100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	99.79	
>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	0.00	99.79	
MISSING	0.02	0.02	0.01	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	100.00	
TOTAL CUMUL TOTAL	3.72	11.51	16.32	35.54	8.28	5.22	2.87	2.48	2.52	1.18	0.98	9.38	100.00		
TOTAL	3.72	15.24	31.56	67.10	75.38	80.60	83.47	85.95	88.47	89.65	90.62	100.00			

NUMBER OF OBSERVATIONS 83861

Table 354. Joint Percentage Frequency Distribution of Hourly Amounts of Solar Radiation on a Horizontal Surface in Langleys and 1-cm Soil Temperature (°F) during the Hours 0400-2000 CST

		JANUARY 1953-1964													
SOIL TEMPERATURE (°F)	SOLAR RADIATION IN LANGLEYS											MISSING	TOTAL	CUMUL TOTAL	
	0	1-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	>90				
<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	0.00	0.00
1-5	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	0.00	0.00
6-10	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	0.00	0.00
11-15	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	0.00	0.00
16-20	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	0.00	0.00
21-25	2.32	1.23	0.66	0.36	0.44	0.43	0.14	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26-30	8.29	5.08	1.98	1.63	1.45	1.23	0.19	0.00	0.00	0.00	0.00	0.00	0.00	5.61	5.61
31-35	28.48	21.03	8.03	6.28	4.66	3.29	0.43	0.00	0.00	0.00	0.00	0.00	0.00	19.85	25.46
36-40	1.09	0.30	0.06	0.05	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	72.20	97.66
41-45	0.02	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.21	99.87
46-50	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	0.13	100.00
51-55	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	0.00	100.00
56-60	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	0.00	100.00
61-65	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	0.00	100.00
66-70	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	0.00	100.00
71-75	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	0.00	100.00
76-80	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	0.00	100.00
81-85	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	0.00	100.00
86-90	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	0.00	100.00
91-95	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	0.00	100.00
96-100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
>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	0.00	0.00	100.00
MISSING	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	0.00	100.00
TOTAL	40.20	28.35	10.74	8.32	6.64	4.98	0.76	0.02	0.00	0.00	0.00	0.00	0.00	100.00	
CUMUL TOTAL	40.20	68.55	79.29	87.60	94.24	99.23	99.98	100.00	100.00	100.00	100.00	100.00	100.00	100.00	

NUMBER OF OBSERVATIONS 6324

		FEBRUARY 1953-1964													
SOIL TEMPERATURE (°F)	SOLAR RADIATION IN LANGLEYS											MISSING	TOTAL	CUMUL TOTAL	
	0	1-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	>90				
<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	0.00	0.00
1-5	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	0.00	0.00
6-10	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	0.00	0.00
11-15	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	0.00	0.00
16-20	0.07	0.05	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21-25	0.94	0.40	0.21	0.17	0.09	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.14
26-30	6.65	3.45	1.84	1.53	1.01	1.23	0.92	0.43	0.00	0.00	0.00	0.00	0.00	1.93	2.06
31-35	28.11	18.86	8.33	6.37	4.32	4.42	4.01	1.60	0.00	0.00	0.00	0.00	0.00	17.06	19.12
36-40	1.04	1.15	0.50	0.24	0.17	0.23	0.26	0.14	0.00	0.00	0.00	0.00	0.00	76.02	95.14
41-45	0.17	0.31	0.14	0.07	0.07	0.09	0.14	0.07	0.00	0.00	0.00	0.00	0.00	3.73	98.87
46-50	0.00	0.02	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.06	99.93
51-55	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	0.07	100.00
56-60	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	0.00	100.00
61-65	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	0.00	100.00
66-70	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	0.00	100.00
71-75	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	0.00	100.00
76-80	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	0.00	100.00
81-85	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	0.00	100.00
86-90	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	0.00	100.00
91-95	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	0.00	100.00
96-100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
>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	0.00	0.00	100.00
MISSING	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	0.00	100.00
TOTAL	36.98	24.24	11.05	8.42	5.66	6.04	5.38	2.24	0.00	0.00	0.00	0.00	0.00	100.00	
CUMUL TOTAL	36.98	61.22	72.27	80.69	86.34	92.38	97.76	100.00	100.00	100.00	100.00	100.00	100.00	100.00	

NUMBER OF OBSERVATIONS 5763

Table 355. Joint Percentage Frequency Distribution of Hourly Amounts of Solar Radiation on a Horizontal Surface in Langleys and 1-cm Soil Temperature (°F) during the Hours 0400-2000 CST

		MARCH 1953-1964													
SOIL TEMPERATURE (°F)		SOLAR RADIATION IN LANGLEYS													
		0	1-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	>90	MISSING	TOTAL	CUMUL TOTAL
< 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	0.00	0.00
1-5	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	0.00	0.00
6-10	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	0.00	0.00
11-15	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	0.00	0.00
16-20	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	0.00	0.00
21-25	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	0.00	0.00
26-30	0.30	0.17	0.08	0.06	0.05	0.09	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31-35	18.37	13.19	5.58	4.10	3.43	2.86	2.70	2.31	1.31	0.13	0.00	0.00	0.00	0.77	0.77
36-40	7.56	6.36	2.78	1.61	1.52	1.12	0.92	1.03	0.40	0.06	0.00	0.00	0.02	53.98	54.76
41-45	2.74	3.40	1.60	1.11	1.08	1.00	1.22	1.03	0.57	0.06	0.00	0.02	0.02	23.37	78.13
46-50	0.65	0.89	0.46	0.33	0.51	0.38	0.59	0.54	0.33	0.02	0.00	0.00	0.02	13.80	91.94
51-55	0.19	0.17	0.09	0.22	0.17	0.22	0.22	0.21	0.19	0.02	0.00	0.00	0.00	4.68	96.62
56-60	0.00	0.02	0.00	0.02	0.03	0.02	0.06	0.08	0.17	0.00	0.00	0.00	0.00	1.69	98.31
61-65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.00	0.00	0.00	0.00	0.41	98.72
66-70	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	0.09	98.81
71-75	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	0.00	98.81
76-80	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	0.00	98.81
81-85	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	0.00	98.81
86-90	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	0.00	98.81
91-95	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	0.00	98.81
96-100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	98.81
>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	0.00	0.00	98.81
MISSING	0.40	0.27	0.27	0.05	0.05	0.05	0.06	0.02	0.00	0.00	0.00	0.00	0.00	0.00	98.81
TOTAL	30.20	24.46	10.86	7.50	6.83	5.74	5.79	5.25	3.02	0.28	0.00	0.03	1.19	100.00	
CUMUL TOTAL	30.20	54.66	65.53	73.02	79.85	85.59	91.38	96.63	99.65	99.94	99.94	100.00			

NUMBER OF OBSERVATIONS 6324

		APRIL 1953-1964													
SOIL TEMPERATURE (°F)		SOLAR RADIATION IN LANGLEYS													
		0	1-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	>90	MISSING	TOTAL	CUMUL TOTAL
< 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	0.00	0.00
1-5	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	0.00	0.00
6-10	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	0.00	0.00
11-15	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	0.00	0.00
16-20	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	0.00	0.00
21-25	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	0.00	0.00
26-30	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	0.00	0.00
31-35	1.21	0.60	0.21	0.20	0.18	0.11	0.11	0.05	0.05	0.03	0.00	0.00	0.00	0.00	0.00
36-40	4.67	3.33	1.37	0.72	0.59	0.44	0.29	0.26	0.15	0.03	0.00	0.03	0.02	2.79	2.79
41-45	5.41	5.59	2.61	2.01	1.45	0.85	0.87	0.72	0.72	0.13	0.00	0.02	0.02	11.88	14.67
46-50	5.11	6.13	2.75	1.50	1.39	1.01	1.13	1.16	1.36	0.36	0.00	0.05	0.05	20.36	35.03
51-55	4.05	4.98	2.45	2.08	1.70	1.49	1.36	1.16	1.36	0.36	0.00	0.05	0.05	21.94	56.98
56-60	1.85	2.88	1.50	1.26	1.08	1.11	1.19	1.19	1.27	0.69	0.02	0.05	0.05	21.90	78.87
61-65	0.33	0.65	0.46	0.56	0.44	0.64	0.67	0.80	0.64	0.41	0.00	0.13	0.13	13.87	92.75
66-70	0.00	0.03	0.05	0.08	0.08	0.18	0.15	0.11	0.20	0.52	0.00	0.02	0.02	5.72	98.46
71-75	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.07	0.07	0.10	0.00	0.00	0.00	0.98	99.44
76-80	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	0.00	99.64
81-85	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	0.20	99.64
86-90	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	0.00	99.64
91-95	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	0.00	99.64
96-100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99.64
>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	0.00	0.00	99.64
MISSING	0.16	0.10	0.03	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99.64
TOTAL	22.79	24.30	11.44	8.40	6.93	5.83	5.78	5.72	6.18	2.32	0.02	0.29	0.36	100.00	
CUMUL TOTAL	22.79	47.09	58.53	66.93	73.86	79.69	85.47	91.19	97.37	99.69	99.71	100.00			

NUMBER OF OBSERVATIONS 6120



Tabel 357. Joint Percentage Frequency Distribution of Hourly Amounts of Solar Radiation on a Horizontal Surface in Langleys and 1-cm Soil Temperature (°F) during the Hours 0400-2000 CST

		JULY 1953-1964													
SOIL TEMPERATURE (°F)	SOLAR RADIATION IN LANGLEYS											MISSING	TOTAL	CUMUL TOTAL	
	0	1-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	>90				
< 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	0.00	0.00
1-5	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	0.00	0.00
6-10	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	0.00	0.00
11-15	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	0.00	0.00
16-20	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	0.00	0.00
21-25	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	0.00	0.00
26-30	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	0.00	0.00
31-35	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	0.00	0.00
36-40	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	0.00	0.00
41-45	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	0.00	0.00
46-50	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	0.00	0.00
51-55	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	0.00	0.00
56-60	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	0.00	0.00
61-65	0.70	0.87	0.08	0.21	0.06	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
66-70	5.09	6.55	1.49	1.98	0.76	0.79	0.33	0.14	0.00	0.00	0.00	0.00	0.05	17.17	19.12
71-75	5.44	7.65	3.04	2.69	2.45	1.63	1.77	1.12	0.57	0.08	0.00	0.05	26.49	45.60	
76-80	2.20	4.95	2.48	2.53	2.75	2.39	3.04	2.93	2.29	0.85	0.00	0.06	26.47	72.07	
81-85	0.40	1.66	1.41	1.19	1.50	2.10	2.75	2.77	3.70	1.66	0.00	0.03	19.17	91.24	
86-90	0.06	0.09	0.22	0.30	0.52	0.66	0.79	1.06	1.61	0.90	0.02	0.00	6.25	97.49	
91-95	0.00	0.00	0.02	0.02	0.03	0.02	0.21	0.27	0.40	0.36	0.00	0.00	1.31	98.80	
96-100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.02	0.00	0.00	0.05	98.85	
>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	0.00	98.85	
MISSING	0.21	0.21	0.09	0.17	0.06	0.03	0.09	0.02	0.00	0.00	0.00	0.00	0.05	98.85	
TOTAL	14.09	21.98	8.82	9.08	8.14	7.65	8.98	8.30	8.74	3.94	0.02	0.06	1.15	100.00	
CUMUL TOTAL	14.09	36.07	44.89	53.97	62.11	69.77	78.75	87.05	95.79	99.73	99.75	100.00			

NUMBER OF OBSERVATIONS 6324

		AUGUST 1953-1964													
SOIL TEMPERATURE (°F)	SOLAR RADIATION IN LANGLEYS											MISSING	TOTAL	CUMUL TOTAL	
	0	1-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	>90				
< 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	0.00	0.00
1-5	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	0.00	0.00
6-10	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	0.00	0.00
11-15	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	0.00	0.00
16-20	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	0.00	0.00
21-25	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	0.00	0.00
26-30	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	0.00	0.00
31-35	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	0.00	0.00
36-40	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	0.00	0.00
41-45	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	0.00	0.00
46-50	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	0.00	0.00
51-55	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	0.00	0.00
56-60	0.06	0.05	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
61-65	1.60	1.20	0.68	0.14	0.28	0.05	0.05	0.02	0.00	0.00	0.00	0.00	0.14	0.14	0.00
66-70	6.69	5.03	2.62	1.20	1.53	0.74	0.47	0.32	0.13	0.00	0.00	0.00	4.02	4.16	0.00
71-75	7.04	7.02	3.51	2.42	2.28	2.23	2.09	1.57	0.81	0.08	0.00	0.00	18.75	22.91	0.00
76-80	2.61	4.76	3.00	2.47	2.96	2.48	3.13	3.35	2.29	0.33	0.00	0.00	29.03	51.94	0.00
81-85	0.27	1.09	0.87	1.17	1.50	1.83	2.47	2.85	2.47	0.37	0.00	0.00	27.39	79.33	0.00
86-90	0.00	0.06	0.13	0.06	0.32	0.41	0.68	0.95	2.47	0.57	0.02	0.02	15.12	94.45	0.00
91-95	0.00	0.00	0.00	0.02	0.02	0.08	0.05	0.16	1.22	0.17	0.00	0.00	4.00	98.45	0.00
96-100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.08	0.00	0.00	0.63	99.08	0.00
>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	0.00	99.13	0.00
MISSING	0.19	0.17	0.19	0.06	0.00	0.05	0.02	0.03	0.00	0.00	0.00	0.00	0.05	99.13	0.00
TOTAL	18.45	19.39	11.04	7.54	8.89	7.87	8.95	9.23	7.26	1.23	0.02	0.13	0.87	100.00	
CUMUL TOTAL	18.45	37.84	48.88	56.42	65.31	73.18	82.13	91.37	98.62	99.86	99.87	100.00			

NUMBER OF OBSERVATIONS 6324









Table 361. Percentage Frequency Distribution of 5.5-foot Temperature (°F) minus 1- and 10-cm Soil Temperature (°F). January 1953-December 1964

1 CM BELOW THE GROUND SURFACE

AIR-SOIL TEMPERATURE (°F)	MONTH												TOTAL	CUMUL TOTAL	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC			
EXTREME	-47	-45	-41	-23	-23	-24	-22	-21	-21	-23	-33	-49			
≤ -40	0.142	0.042	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.061	0.246	0.246
-39- -35	0.183	0.102	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.163	0.462	0.708
-34- -30	0.332	0.159	0.021	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.037	0.844	1.552
-29- -25	0.590	0.233	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.076	1.305	2.858
-24- -20	0.742	0.387	0.145	0.004	0.027	0.012	0.002	0.000	0.000	0.000	0.000	0.000	0.524	2.032	4.889
-19- -15	0.800	0.506	0.336	0.103	0.355	0.260	0.051	0.065	0.275	0.276	0.510	0.660	4.195	9.084	
-14- -10	1.046	0.945	0.843	0.784	1.152	0.975	0.854	0.926	1.226	1.308	1.301	1.387	12.748	21.832	
-9- -5	1.621	1.531	1.957	1.966	1.909	2.270	3.058	2.938	2.403	2.130	2.318	1.951	26.052	47.885	
-4- -0	1.818	1.981	2.460	2.070	2.083	2.536	3.119	2.935	2.436	2.217	1.922	1.612	27.190	75.075	
1-5	0.786	1.117	1.326	1.652	1.664	1.699	1.185	1.369	1.292	1.550	1.138	0.837	15.614	90.689	
6-10	0.282	0.470	0.650	0.955	0.932	0.412	0.122	0.184	0.451	0.657	0.540	0.426	6.080	96.770	
11-15	0.105	0.179	0.307	0.433	0.321	0.021	0.002	0.000	0.055	0.240	0.163	0.138	1.962	98.732	
16-20	0.027	0.048	0.144	0.181	0.038	0.001	0.000	0.000	0.010	0.027	0.016	0.010	0.500	99.232	
21-25	0.013	0.033	0.038	0.025	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.111	99.343	
26-30	0.000	0.002	0.013	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.016	99.359	
31-35	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	99.364	
36-40	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	99.367	
MISSING	0.000	0.001	0.152	0.040	0.008	0.028	0.094	0.068	0.056	0.064	0.035	0.087	0.633	100.000	
TOTAL CUMUL	8.487	7.734	8.487	8.214	8.487	8.214	8.487	8.487	8.214	8.487	8.214	8.487	100.000		
TOTAL EXTREME	24	27	37	26	20	20	12	10	19	20	18	21			

NUMBER OF OBSERVATIONS = 105192

10 CM BELOW THE GROUND SURFACE

AIR-SOIL TEMPERATURE (°F)	MONTH												TOTAL	CUMUL TOTAL	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC			
EXTREME	-48	-45	-41	-23	-23	-25	-22	-21	-24	-24	-33	-49			
≤ -40	0.110	0.040	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.065	0.217	0.217
-39- -35	0.198	0.087	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.175	0.691	0.691
-34- -30	0.292	0.159	0.021	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.041	0.814	1.505
-29- -25	0.555	0.256	0.067	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.078	1.297	2.802
-24- -20	0.732	0.384	0.145	0.006	0.029	0.025	0.005	0.003	0.029	0.037	0.178	0.522	2.095	4.897	
-19- -15	0.897	0.541	0.351	0.123	0.386	0.239	0.076	0.079	0.399	0.358	0.585	0.678	4.711	9.608	
-14- -10	0.979	0.910	0.867	0.766	1.000	0.888	0.796	0.992	1.245	1.315	1.338	1.380	12.475	22.083	
-9- -5	1.589	1.464	1.789	1.726	1.666	1.875	2.490	2.382	1.974	1.955	2.177	1.874	22.961	45.044	
-4- -0	1.812	1.951	2.219	1.871	1.817	2.203	2.465	2.481	2.126	1.995	1.796	1.547	24.281	69.326	
1-5	0.847	1.120	1.402	1.604	1.631	1.653	1.788	1.609	1.386	1.533	1.103	0.862	16.539	85.865	
6-10	0.308	0.472	0.720	1.111	1.160	1.102	0.723	0.783	0.710	0.732	0.578	0.420	8.820	94.685	
11-15	0.092	0.220	0.394	0.550	0.583	0.191	0.050	0.089	0.252	0.400	0.257	0.216	3.294	97.979	
16-20	0.048	0.087	0.190	0.296	0.195	0.010	0.000	0.000	0.029	0.091	0.046	0.034	1.025	99.004	
21-25	0.029	0.026	0.086	0.106	0.013	0.000	0.000	0.000	0.007	0.006	0.004	0.002	0.278	99.281	
26-30	0.000	0.017	0.036	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.067	99.349	
31-35	0.000	0.001	0.008	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	99.358	
36-40	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	99.361	
MISSING	0.000	0.001	0.174	0.039	0.008	0.028	0.094	0.068	0.056	0.064	0.035	0.072	0.639	100.000	
TOTAL CUMUL	8.487	7.734	8.487	8.214	8.487	8.214	8.487	8.487	8.214	8.487	8.214	8.487	100.000		
TOTAL EXTREME	25	31	37	31	24	17	13	14	23	23	23	22			

NUMBER OF OBSERVATIONS = 105192

Figure 54. Average Hourly 5.5-foot Air minus 1- and 10-cm Soil Temperature Difference (°F).  
Lower Curve, 1-cm; Upper Curve, 10-cm

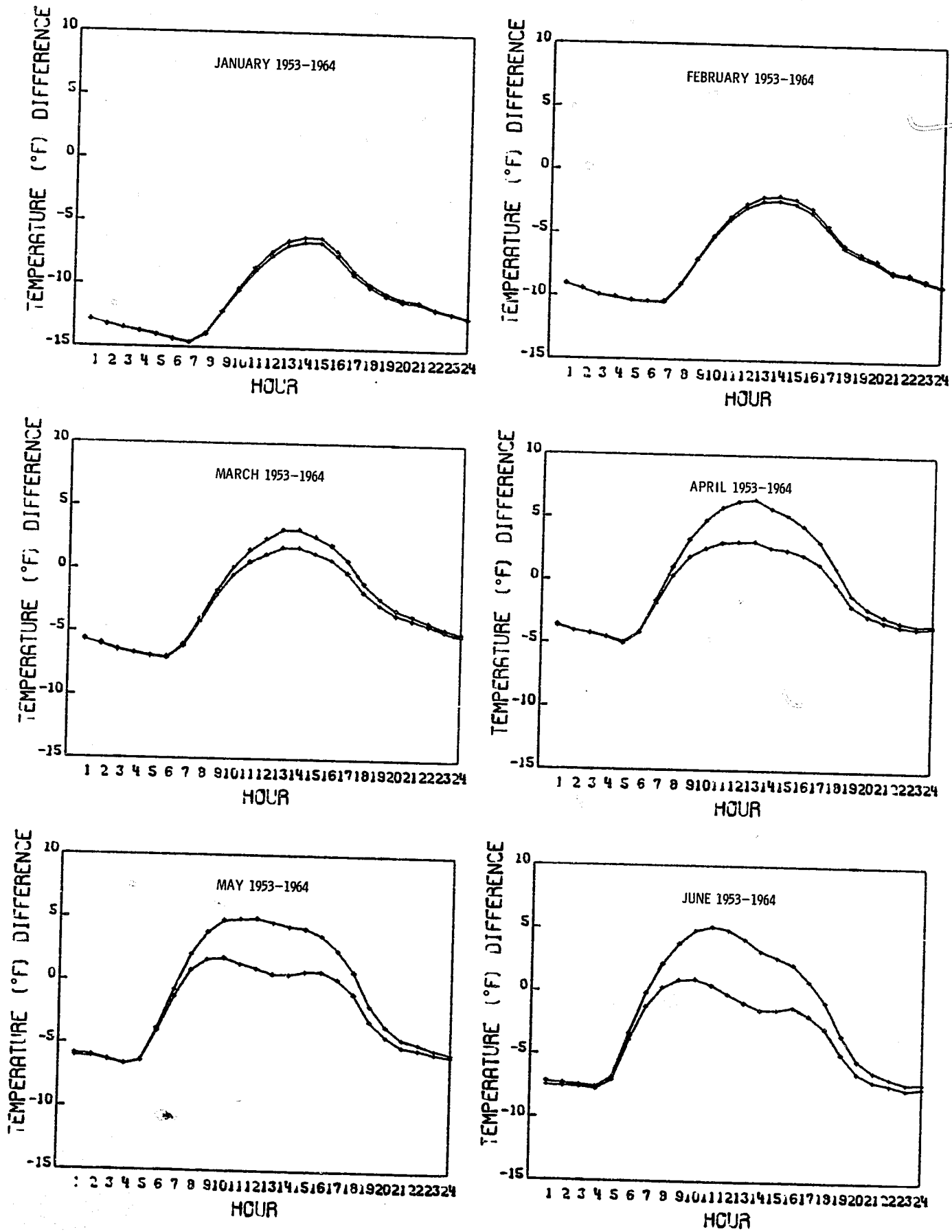


Figure 55. Average Hourly 5.5-foot Air minus 1- and 10-cm Soil Temperature Difference (°F).  
Lower Curve, 1-cm; Upper Curve, 10-cm

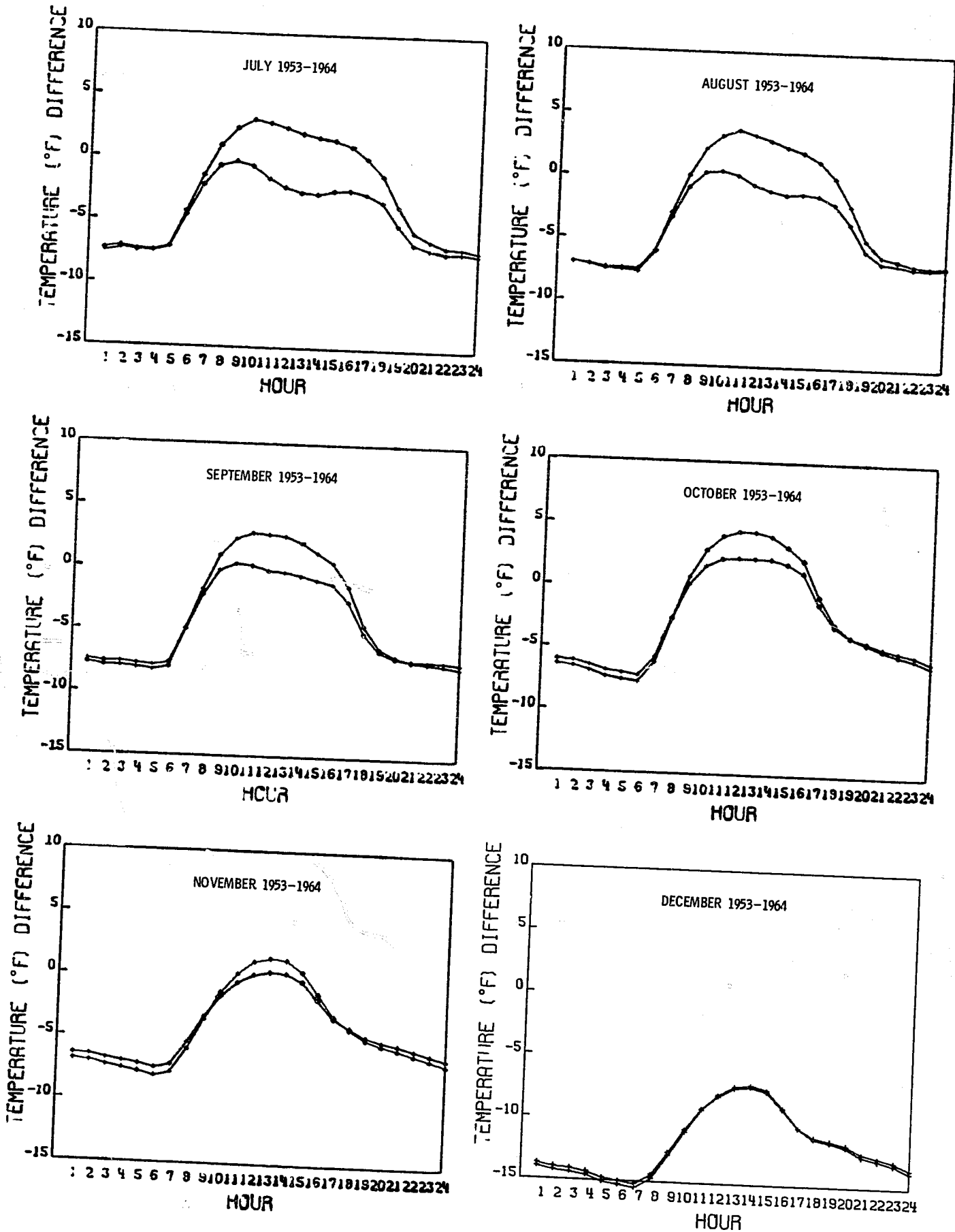


Table 362. Joint Percentage Frequency Distribution of 144- minus 5.5-foot Temperature Difference (°F) and Hourly Amounts of Net Radiation on a Horizontal Surface in Tenths of Langleys

		JANUARY 1957-1964													
NET RADIATION TENTH OF LANGLEY		144-5.5-FOOT TEMPERATURE DIFFERENCE (°F)												TOTAL	CUMUL TOTAL
		≤-3.0	-2.9	-1.9	-0.9	0.1	1.1	2.1	3.1	4.1	6.1	>8.0	MISSING		
		-2.0	-1.0	-0.0	-1.0	-2.0	-3.0	-4.0	-6.0	-8.0					
≤-75	0.00	0.00	0.00	1.19	1.23	0.86	0.13	0.02	0.00	0.00	0.00	0.02	3.44	3.44	
-74- -50	0.00	0.00	0.18	3.78	6.10	3.70	1.63	1.68	0.82	0.22	0.13	0.24	18.48	21.93	
-49- -25	0.02	0.08	0.47	5.04	2.89	1.34	1.09	1.26	1.76	0.71	0.44	0.07	15.17	37.10	
-24- 0	0.02	0.32	2.40	20.41	2.13	0.74	0.34	0.25	0.20	0.13	0.10	0.44	27.49	64.58	
1-9	0.00	0.05	0.62	1.51	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.03	2.47	67.05	
10-19	0.00	0.13	0.89	1.85	0.18	0.10	0.00	0.00	0.00	0.00	0.00	0.05	3.21	70.26	
20-29	0.02	0.12	1.09	1.31	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.05	2.60	72.87	
30-39	0.00	0.10	1.18	1.41	0.07	0.00	0.02	0.00	0.00	0.00	0.00	0.07	2.84	75.71	
40-49	0.00	0.15	1.04	0.64	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.07	1.86	77.57	
50-59	0.00	0.15	1.55	0.86	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.05	2.62	80.19	
60-79	0.00	0.47	2.10	0.76	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.03	3.39	83.59	
80-99	0.00	0.50	1.19	0.25	0.05	0.02	0.00	0.00	0.00	0.00	0.00	0.03	2.05	85.64	
100-149	0.08	1.14	1.41	0.22	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.03	2.91	88.54	
150-199	0.15	0.96	0.37	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	1.58	90.12	
200-299	0.17	0.27	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	90.59	
300-399	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	90.59	
400-499	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	90.59	
500-599	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	90.59	
600-799	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	90.59	
≥800	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	90.59	
MISSING	0.00	0.07	1.09	5.63	0.84	0.10	0.03	0.05	0.17	0.02	0.10	1.31	9.41	100.00	
TOTAL CUMUL	0.45	4.52	15.61	44.94	13.83	6.89	3.26	3.26	2.96	1.08	0.77	2.44	100.00		
TOTAL	0.45	4.97	20.58	65.52	79.35	86.24	89.50	92.76	95.72	96.79	97.56	100.00			

NUMBER OF OBSERVATIONS = 5952

		FEBRUARY 1957-1964													
NET RADIATION TENTH OF LANGLEY		144-5.5-FOOT TEMPERATURE DIFFERENCE (°F)												TOTAL	CUMUL TOTAL
		≤-3.0	-2.9	-1.9	-0.9	0.1	1.1	2.1	3.1	4.1	6.1	>8.0	MISSING		
		-2.0	-1.0	-0.0	-1.0	-2.0	-3.0	-4.0	-6.0	-8.0					
≤-75	0.00	0.00	0.00	1.49	1.84	0.48	0.22	0.11	0.09	0.04	0.00	0.00	4.28	4.28	
-74- -50	0.00	0.00	0.11	3.67	5.11	4.02	2.58	1.42	1.03	0.46	0.28	0.17	18.84	23.12	
-49- -25	0.00	0.11	0.65	4.59	1.92	1.42	0.65	0.61	0.96	0.26	0.35	0.26	11.76	34.88	
-24- 0	0.07	0.13	1.29	18.33	2.60	0.74	0.33	0.13	0.20	0.04	0.00	0.61	24.47	59.35	
1-9	0.02	0.06	0.22	2.10	0.17	0.04	0.00	0.00	0.00	0.00	0.00	0.04	2.69	62.04	
10-19	0.00	0.06	0.48	1.64	0.11	0.02	0.02	0.02	0.00	0.00	0.00	0.02	2.36	64.40	
20-29	0.00	0.04	0.46	0.96	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.07	1.62	66.02	
30-39	0.00	0.06	0.79	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	2.21	68.23	
40-49	0.00	0.13	0.66	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	1.57	69.80	
50-59	0.02	0.17	0.83	1.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.07	2.10	71.90	
60-79	0.02	0.39	1.94	1.20	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.06	3.67	75.57	
80-99	0.02	0.55	1.38	0.70	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.06	2.73	78.30	
100-149	0.04	1.31	2.65	1.18	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.13	5.38	83.68	
150-199	0.09	1.03	1.24	0.37	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.04	2.78	86.47	
200-299	0.70	1.71	1.09	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	3.82	90.28	
300-399	0.31	0.65	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	1.09	91.37	
400-499	0.00	0.07	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	91.46	
500-599	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	91.46	
600-799	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	91.46	
≥800	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	91.46	
MISSING	0.04	0.17	0.87	4.28	0.77	0.33	0.13	0.02	0.04	0.00	0.00	1.90	8.54	100.00	
TOTAL CUMUL	1.33	6.62	14.71	43.84	12.79	7.04	3.98	2.32	2.32	0.79	0.63	3.61	100.00		
TOTAL	1.33	7.95	22.66	66.50	79.30	86.34	90.32	92.64	94.97	95.76	96.39	100.00			

NUMBER OF OBSERVATIONS = 5424

Table 363. Joint Percentage Frequency Distribution of 144- minus 5.5-foot Temperature Difference (°F) and Hourly Amounts of Net Radiation on a Horizontal Surface in Tenths of Langleys

NET RADIATION TENTH OF LANGLEY		MARCH 1957-1964											TOTAL	CUMUL TOTAL
		-144-5.5-FOOT TEMPERATURE DIFFERENCE (°F)												
		≤-3.0	-2.9	-1.9	-0.9	0.1	1.1	2.1	3.1	4.1	6.1	>8.0		
≤-75	0.00	0.00	0.00	0.52	1.53	1.50	0.96	0.39	0.15	0.05	0.00	0.00	5.09	5.09
-74- -50	0.00	0.02	0.07	1.56	3.04	3.33	2.12	1.60	2.12	0.69	0.27	0.59	15.39	20.48
-49- -25	0.00	0.03	0.15	4.32	3.58	1.29	0.96	0.52	0.60	0.47	0.32	0.77	13.02	33.50
-24- 0	0.13	0.07	0.64	12.11	2.20	0.82	0.30	0.07	0.18	0.00	0.00	1.06	17.59	51.09
1-9	0.02	0.00	0.12	0.77	0.17	0.05	0.02	0.00	0.02	0.00	0.00	0.07	1.23	52.32
10-19	0.02	0.03	0.42	1.01	0.13	0.03	0.00	0.00	0.02	0.00	0.00	0.12	1.78	54.10
20-29	0.00	0.03	0.34	0.66	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.05	1.09	55.19
30-39	0.00	0.03	0.59	1.01	0.05	0.02	0.00	0.00	0.00	0.00	0.00	0.02	1.71	56.91
40-49	0.00	0.02	0.47	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	1.06	57.96
50-59	0.02	0.13	0.77	0.74	0.05	0.02	0.00	0.00	0.00	0.00	0.00	0.15	1.88	59.85
60-79	0.00	0.35	1.44	0.92	0.02	0.00	0.00	0.02	0.00	0.00	0.00	0.13	2.89	62.74
80-99	0.05	0.49	0.87	0.50	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.05	2.02	64.75
100-149	0.12	1.34	2.32	0.72	0.07	0.02	0.00	0.00	0.00	0.00	0.00	0.32	4.91	69.66
150-199	0.17	1.36	1.48	0.52	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.32	3.88	73.54
200-299	0.77	2.69	1.34	0.27	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.64	5.75	79.28
300-399	1.34	1.60	0.55	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.74	4.32	83.60
400-499	1.19	0.64	0.10	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.45	2.45	86.06
500-599	0.30	0.08	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.42	86.48
600-799	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	86.48
≥800	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	86.49
MISSING	0.07	0.34	0.87	4.75	0.79	0.57	0.08	0.02	0.03	0.03	0.10	5.85	13.51	100.00
TOTAL CUMUL TOTAL	4.22	9.26	12.55	31.03	11.76	7.68	4.44	2.60	3.13	1.24	0.69	11.41	100.00	
TOTAL	4.22	13.47	26.02	57.06	68.82	76.50	80.93	83.53	86.66	87.90	88.59	100.00		

NUMBER OF OBSERVATIONS = 5952

NET RADIATION TENTH OF LANGLEY		APRIL 1957-1964											TOTAL	CUMUL TOTAL
		-144-5.5-FOOT TEMPERATURE DIFFERENCE (°F)												
		≤-3.0	-2.9	-1.9	-0.9	0.1	1.1	2.1	3.1	4.1	6.1	>8.0		
≤-75	0.00	0.00	0.00	0.19	0.94	0.99	0.52	0.64	0.49	0.05	0.03	0.33	4.18	4.18
-74- -50	0.09	0.03	0.03	0.75	2.08	3.28	1.89	2.27	2.59	0.94	0.63	0.49	15.07	19.25
-49- -25	0.00	0.02	0.07	2.40	2.80	1.49	1.01	0.71	0.66	0.50	0.54	0.59	10.78	30.03
-24- 0	0.00	0.09	0.36	7.10	2.45	0.82	0.30	0.10	0.09	0.07	0.00	0.87	12.24	42.27
1-9	0.00	0.00	0.05	0.49	0.12	0.03	0.02	0.00	0.00	0.00	0.00	0.16	0.87	43.14
10-19	0.00	0.00	0.16	0.87	0.17	0.07	0.02	0.00	0.00	0.00	0.00	0.10	1.39	44.53
20-29	0.00	0.00	0.23	0.28	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.05	0.57	45.10
30-39	0.02	0.02	0.35	0.40	0.07	0.03	0.00	0.00	0.00	0.00	0.00	0.07	0.95	46.06
40-49	0.00	0.03	0.33	0.23	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.03	0.68	46.74
50-59	0.02	0.03	0.45	0.40	0.03	0.00	0.02	0.00	0.00	0.00	0.00	0.02	0.97	47.71
60-79	0.03	0.10	0.94	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.17	1.84	49.55
80-99	0.00	0.16	0.80	0.56	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.12	1.67	51.22
100-149	0.09	0.80	1.89	1.04	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.16	4.15	55.36
150-199	0.23	1.53	1.16	0.26	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.21	3.42	58.78
200-299	0.94	2.41	1.35	0.45	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.40	5.59	64.38
300-399	2.00	2.15	0.85	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	5.45	69.83
400-499	3.25	1.48	0.31	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	5.45	75.28
500-599	2.76	0.61	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	3.91	79.18
600-799	0.30	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.38	79.57
≥800	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	79.57
MISSING	0.17	0.42	0.95	2.93	1.35	0.68	0.26	0.10	0.00	0.05	0.02	13.49	20.43	100.00
TOTAL CUMUL TOTAL	9.88	9.91	10.45	19.11	10.40	7.43	4.03	3.84	3.82	1.61	1.22	18.30	100.00	
TOTAL	9.88	19.79	30.24	49.36	59.76	67.19	71.22	75.05	78.87	80.49	81.70	100.00		

NUMBER OF OBSERVATIONS = 5760

Table 364. Joint Percentage Frequency Distribution of 144- minus 5.5-foot Temperature Difference (°F) and Hourly Amounts of Net Radiation on a Horizontal Surface in Tenths of Langleys

NET RADIATION TENTH OF LANGLEY	MAY 1957-1964												TOTAL	CUMUL TOTAL
	144-5.5-FOOT TEMPERATURE DIFFERENCE (°F)													
	≤-3.0	-2.9 -2.0	-1.9 -1.0	-0.9 -0.0	0.1 -1.0	1.1 -2.0	2.1 -3.0	3.1 -4.0	4.1 -6.0	6.1 -8.0	>8.0	MISSING		
≤-75	0.00	0.00	0.00	0.12	0.30	0.74	0.42	0.29	0.32	0.10	0.00	0.20	2.49	2.49
-74- -50	0.05	0.02	0.00	0.39	2.40	2.84	1.95	1.85	2.15	1.04	0.64	1.44	14.77	17.25
-49- -25	0.02	0.07	0.07	1.19	2.94	1.93	0.97	0.96	1.13	0.57	0.82	2.96	13.63	30.88
-24- 0	0.00	0.03	0.25	4.20	1.50	0.81	0.40	0.30	0.20	0.17	0.08	1.93	9.88	40.76
1-9	0.00	0.00	0.03	0.52	0.18	0.05	0.00	0.00	0.00	0.02	0.00	0.10	0.91	41.67
10-19	0.00	0.00	0.10	0.66	0.32	0.05	0.02	0.00	0.00	0.00	0.00	0.00	1.39	43.06
20-29	0.00	0.00	0.07	0.39	0.24	0.03	0.00	0.00	0.00	0.00	0.00	0.25	0.82	43.88
30-39	0.00	0.00	0.15	0.64	0.12	0.08	0.02	0.00	0.02	0.00	0.00	0.22	1.24	45.13
40-49	0.00	0.00	0.13	0.49	0.24	0.08	0.03	0.00	0.02	0.00	0.02	0.13	1.14	46.27
50-59	0.00	0.00	0.20	0.27	0.13	0.03	0.02	0.00	0.00	0.00	0.00	0.12	0.77	47.04
60-79	0.00	0.02	0.42	0.79	0.17	0.03	0.03	0.00	0.00	0.00	0.00	0.34	1.80	48.84
80-99	0.00	0.07	0.84	0.47	0.07	0.02	0.00	0.02	0.00	0.00	0.00	0.32	1.80	50.64
100-149	0.02	0.45	2.28	1.16	0.15	0.05	0.00	0.00	0.00	0.00	0.00	0.50	4.62	55.26
150-199	0.05	0.55	1.44	0.79	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.66	3.61	58.87
200-299	0.35	2.10	2.08	0.72	0.07	0.00	0.02	0.00	0.02	0.00	0.00	1.21	6.57	65.44
300-399	0.86	2.35	1.48	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00	1.04	6.17	71.61
400-499	1.19	2.82	1.08	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.77	6.17	77.77
500-599	1.61	2.96	0.81	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	6.22	83.99
600-799	0.79	0.86	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	2.02	86.00
≥800	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	2.02	86.00
MISSING	0.03	0.34	0.77	2.30	0.97	0.74	0.34	0.13	0.18	0.07	0.02	8.08	0.02	86.02
TOTAL	4.97	12.63	12.37	15.94	9.93	7.49	4.22	3.55	4.05	1.97	0.02	8.08	13.98	100.00
CUMUL TOTAL	4.97	17.61	29.97	45.92	55.85	63.34	67.56	71.10	75.15	77.12	78.70	100.00		

NUMBER OF OBSERVATIONS = 5952

NET RADIATION TENTH OF LANGLEY	JUNE 1956-1964												TOTAL	CUMUL TOTAL
	144-5.5-FOOT TEMPERATURE DIFFERENCE (°F)													
	≤-3.0	-2.9 -2.0	-1.9 -1.0	-0.9 -0.0	0.1 -1.0	1.1 -2.0	2.1 -3.0	3.1 -4.0	4.1 -6.0	6.1 -8.0	>8.0	MISSING		
≤-75	0.00	0.00	0.03	0.02	0.25	0.29	0.19	0.08	0.08	0.05	0.02	0.05	1.03	1.03
-74- -50	0.09	0.02	0.05	0.17	1.17	1.68	0.19	0.08	0.08	0.05	0.02	0.05	10.17	11.20
-49- -25	0.03	0.02	0.03	0.76	2.79	2.95	1.81	1.39	1.96	0.85	0.99	0.14	18.06	29.26
-24- 0	0.03	0.03	0.08	2.21	1.98	1.48	1.05	1.14	2.81	1.84	2.18	0.45	10.19	39.44
1-9	0.00	0.00	0.08	0.29	0.19	0.08	0.06	0.05	1.00	0.37	0.56	0.26	0.80	40.25
10-19	0.00	0.00	0.32	0.80	0.19	0.23	0.06	0.02	0.02	0.02	0.02	0.02	1.73	41.98
20-29	0.00	0.00	0.14	0.31	0.08	0.05	0.06	0.02	0.02	0.02	0.02	0.06	0.69	42.67
30-39	0.00	0.02	0.15	0.65	0.17	0.09	0.06	0.05	0.02	0.00	0.00	0.03	1.22	43.89
40-49	0.00	0.00	0.08	0.29	0.09	0.08	0.00	0.03	0.02	0.00	0.00	0.03	0.62	44.51
50-59	0.00	0.00	0.06	0.20	0.06	0.00	0.03	0.02	0.00	0.00	0.00	0.06	0.43	44.94
60-79	0.00	0.05	0.28	0.71	0.25	0.19	0.03	0.05	0.00	0.00	0.00	0.03	1.57	46.51
80-99	0.00	0.05	0.73	0.90	0.29	0.17	0.03	0.00	0.00	0.00	0.00	0.08	2.24	48.75
100-149	0.00	0.77	1.93	1.00	0.25	0.08	0.02	0.00	0.00	0.00	0.00	0.08	4.12	52.87
150-199	0.03	0.59	1.05	1.00	0.25	0.05	0.00	0.00	0.00	0.00	0.00	0.03	2.99	55.86
200-299	0.19	2.95	2.47	1.22	0.15	0.09	0.00	0.00	0.00	0.00	0.00	0.14	7.21	63.07
300-399	0.66	3.38	2.07	0.39	0.06	0.02	0.00	0.00	0.00	0.00	0.00	0.22	6.79	69.86
400-499	1.42	3.50	1.68	0.40	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.15	7.19	77.05
500-599	1.64	3.63	1.13	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	6.70	83.75
600-799	1.31	1.50	0.32	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	3.23	86.98
≥800	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	86.98
MISSING	0.23	0.68	0.76	1.53	1.10	0.59	0.20	0.14	0.29	0.19	0.20	7.13	0.00	86.98
TOTAL	5.63	17.16	13.43	13.01	9.32	8.12	5.26	5.37	6.25	3.30	3.95	9.20	13.02	100.00
CUMUL TOTAL	5.63	22.79	36.22	49.23	58.55	66.67	71.93	77.30	83.55	86.85	90.80	100.00		

NUMBER OF OBSERVATIONS = 6480

Table 365. Joint Percentage Frequency Distribution of 144- minus 5.5-foot Temperature Difference (°F) and Hourly Amounts of Net Radiation on a Horizontal Surface in Tenths of Langleys

JULY		1956-1964													
NET RADIATION TENTH OF LANGLEY	144-5.5-FOOT TEMPERATURE DIFFERENCE (°F)												TOTAL	CUMUL TOTAL	
	≤-3.0	-2.9	-1.9	-0.9	0.1	1.1	2.1	3.1	4.1	6.1	>8.0	MISSING			
≤-75	0.00	0.00	0.00	0.00	0.13	0.19	0.06	0.13	0.07	0.00	0.03	0.03	0.66	0.66	
-74- -50	0.00	0.00	0.00	0.19	0.72	1.27	0.73	1.19	1.22	1.05	0.88	0.24	7.50	8.15	
-49- -25	0.07	0.00	0.00	0.99	2.03	2.87	2.54	2.58	3.73	2.21	1.85	1.14	20.01	28.17	
-24- 0	0.01	0.00	0.27	2.78	3.02	2.82	1.19	0.93	0.87	0.46	0.30	0.82	13.47	41.64	
1-9	0.01	0.00	0.04	0.39	0.16	0.13	0.10	0.01	0.03	0.01	0.00	0.12	1.03	42.67	
10-19	0.00	0.00	0.15	0.64	0.21	0.24	0.07	0.03	0.04	0.00	0.00	0.12	1.51	44.18	
20-29	0.00	0.00	0.03	0.19	0.04	0.03	0.00	0.01	0.00	0.00	0.00	0.04	0.36	44.53	
30-39	0.00	0.00	0.15	0.34	0.04	0.06	0.00	0.03	0.00	0.00	0.00	0.03	0.66	45.19	
40-49	0.00	0.01	0.16	0.22	0.10	0.00	0.00	0.01	0.00	0.00	0.01	0.06	0.60	45.79	
50-59	0.00	0.00	0.06	0.30	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.46	46.25	
60-79	0.00	0.06	0.34	0.97	0.37	0.04	0.01	0.00	0.00	0.00	0.00	0.16	1.97	48.22	
80-99	0.00	0.21	0.93	0.88	0.30	0.04	0.01	0.00	0.00	0.00	0.00	0.16	2.54	50.76	
100-149	0.03	0.70	1.72	1.12	0.16	0.04	0.00	0.00	0.00	0.01	0.00	0.25	4.05	54.81	
150-199	0.00	0.84	1.25	0.88	0.07	0.01	0.00	0.00	0.00	0.00	0.00	0.25	3.32	58.12	
200-299	0.37	2.67	2.49	1.05	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.61	7.38	65.50	
300-399	0.96	3.51	1.64	0.51	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.27	6.90	72.40	
400-499	1.55	3.49	1.27	0.36	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.33	7.05	79.45	
500-599	1.87	2.96	0.67	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	5.75	85.20	
600-799	0.69	0.81	0.21	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	1.76	86.96	
≥800	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	86.99	
MISSING	0.12	0.54	0.52	1.69	0.66	0.27	0.18	0.13	0.22	0.01	0.00	8.66	13.01	100.00	
TOTAL CUMUL TOTAL	5.69	15.62	11.93	13.59	8.35	8.05	4.91	5.08	6.20	3.76	3.08	13.55	100.00		
TOTAL	5.69	21.51	33.44	47.03	55.38	63.43	68.34	73.42	79.61	83.38	86.45	100.00			

NUMBER OF OBSERVATIONS = 6696

AUGUST		1956-1964													
NET RADIATION TENTH OF LANGLEY	144-5.5-FOOT TEMPERATURE DIFFERENCE (°F)												TOTAL	CUMUL TOTAL	
	≤-3.0	-2.9	-1.9	-0.9	0.1	1.1	2.1	3.1	4.1	6.1	>8.0	MISSING			
≤-75	0.00	0.00	0.00	0.00	0.01	0.06	0.13	0.10	0.00	0.00	0.00	0.00	0.31	0.31	
-74- -50	0.00	0.00	0.00	0.04	0.61	1.03	1.28	1.73	1.87	0.99	0.94	0.61	9.11	9.42	
-49- -25	0.00	0.00	0.00	1.18	2.88	4.26	3.00	3.26	4.78	2.17	1.12	0.78	23.42	32.84	
-24- 0	0.00	0.01	0.12	3.23	3.15	2.26	1.19	0.84	0.81	0.25	0.34	0.43	12.63	45.47	
1-9	0.00	0.00	0.01	0.22	0.19	0.10	0.09	0.01	0.01	0.01	0.00	0.04	0.70	46.18	
10-19	0.00	0.00	0.00	0.39	0.33	0.19	0.06	0.00	0.00	0.00	0.01	0.00	0.99	47.16	
20-29	0.00	0.03	0.06	0.22	0.10	0.10	0.00	0.00	0.00	0.00	0.00	0.03	0.55	47.72	
30-39	0.00	0.03	0.15	0.58	0.25	0.15	0.01	0.01	0.00	0.00	0.00	0.03	1.22	48.94	
40-49	0.00	0.06	0.37	0.72	0.39	0.10	0.01	0.00	0.00	0.00	0.00	0.10	1.76	50.70	
50-59	0.00	0.01	0.24	0.30	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.66	51.36	
60-79	0.01	0.10	0.67	0.96	0.25	0.01	0.01	0.00	0.00	0.00	0.00	0.12	2.15	53.51	
80-99	0.01	0.07	0.63	0.66	0.04	0.09	0.00	0.00	0.00	0.00	0.00	0.07	1.58	55.09	
100-149	0.01	0.51	1.69	1.21	0.18	0.03	0.00	0.00	0.00	0.00	0.00	0.13	3.76	58.86	
150-199	0.10	1.51	2.05	0.88	0.06	0.01	0.00	0.00	0.00	0.00	0.00	0.09	4.70	63.56	
200-299	0.45	3.02	2.51	0.70	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.25	6.96	70.52	
300-399	1.33	3.51	1.82	0.28	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.19	7.17	77.69	
400-499	1.91	4.11	1.22	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	7.56	85.24	
500-599	1.78	2.27	0.61	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	4.79	90.04	
600-799	0.09	0.22	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.36	90.40	
≥800	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	90.40	
MISSING	0.04	0.60	0.73	1.70	0.91	0.60	0.13	0.07	0.22	0.09	0.10	4.39	9.60	100.00	
TOTAL CUMUL TOTAL	5.75	16.07	12.90	13.49	9.48	9.02	5.96	6.03	7.69	3.49	2.52	7.59	100.00		
TOTAL	5.75	21.82	34.72	48.21	57.69	66.71	72.67	78.70	86.39	89.89	92.41	100.00			

NUMBER OF OBSERVATIONS = 6696



Table 366. Joint Percentage Frequency Distribution of 144- minus 5.5-foot Temperature Difference (°F) and Hourly Amounts of Net Radiation on a Horizontal Surface in Tenths of Langleys

NET RADIATION TENTH OF LANGLEY		144-5.5-FOOT TEMPERATURE DIFFERENCE (°F)												TOTAL	CUMUL TOTAL
		≤-3.0	-2.9	-1.9	-0.9	0.1	1.1	2.1	3.1	4.1	6.1	>8.0	MISSING		
			-2.0	-1.0	-0.0	-1.0	-2.0	-3.0	-4.0	-6.0	-8.0				
≤-75	0.00	0.00	0.00	0.14	0.29	0.52	0.31	0.35	0.26	0.09	0.03	0.12	2.13	2.13	
-74- -50	0.00	0.00	0.02	0.29	1.23	1.50	1.88	2.25	3.18	1.74	1.84	0.39	14.32	16.45	
-49- -25	0.00	0.00	0.11	1.54	3.44	2.62	1.81	2.22	2.81	1.93	1.82	0.59	18.89	35.34	
-24- 0	0.02	0.09	0.45	4.51	3.47	1.98	1.03	0.82	0.80	0.49	0.34	0.62	14.61	49.95	
1-9	0.00	0.00	0.15	0.43	0.25	0.17	0.06	0.05	0.02	0.00	0.00	0.05	1.17	51.13	
10-19	0.00	0.00	0.25	0.86	0.37	0.12	0.05	0.03	0.02	0.00	0.00	0.00	0.11	1.81	
20-29	0.00	0.03	0.09	0.23	0.08	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.14	52.93	
30-39	0.02	0.00	0.35	0.73	0.22	0.08	0.03	0.03	0.03	0.00	0.00	0.00	0.02	0.51	
40-49	0.03	0.05	0.19	0.52	0.11	0.05	0.02	0.02	0.00	0.00	0.00	0.00	0.14	1.62	
50-59	0.00	0.03	0.20	0.25	0.05	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.03	1.00	
60-79	0.02	0.14	0.60	0.83	0.17	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.57	
80-99	0.00	0.14	0.93	0.71	0.09	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.05	1.90	
100-149	0.03	1.20	1.96	0.94	0.11	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.03	1.93	
150-199	0.08	1.02	1.76	0.69	0.08	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.11	4.37	
200-299	0.80	3.53	2.61	0.79	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	3.72	
300-399	2.04	3.56	1.59	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	7.96	
400-499	2.24	2.69	0.82	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	7.65	
500-599	0.15	0.59	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	5.94	
600-799	0.02	0.08	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.77	
≥800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	90.99	
MISSING	0.19	0.29	0.52	0.79	1.02	0.40	0.20	0.19	0.12	0.05	0.02	5.23	9.01	100.00	
TOTAL CUMUL	5.62	13.44	12.64	14.58	11.06	7.69	5.39	5.96	7.24	4.31	4.04	8.04	100.00		
TOTAL	5.62	19.06	31.70	46.28	57.35	65.03	70.42	76.37	83.61	87.92	91.96	100.00			

NUMBER OF OBSERVATIONS = 6480

NET RADIATION TENTH OF LANGLEY		144-5.5-FOOT TEMPERATURE DIFFERENCE (°F)												TOTAL	CUMUL TOTAL
		≤-3.0	-2.9	-1.9	-0.9	0.1	1.1	2.1	3.1	4.1	6.1	>8.0	MISSING		
			-2.0	-1.0	-0.0	-1.0	-2.0	-3.0	-4.0	-6.0	-8.0				
≤-75	0.00	0.00	0.01	0.10	1.25	1.00	0.51	0.30	0.24	0.03	0.00	0.10	3.55	3.55	
-74- -50	0.00	0.00	0.03	0.60	2.43	3.90	3.11	0.30	0.24	0.03	0.00	0.10	20.76	24.31	
-49- -25	0.01	0.01	0.15	2.31	3.67	2.30	1.51	3.09	3.23	1.94	1.67	0.76	18.25	42.56	
-24- 0	0.00	0.04	0.31	5.76	2.55	1.52	0.64	1.66	2.43	1.81	1.91	0.46	13.05	55.62	
1-9	0.00	0.00	0.04	0.52	0.16	0.06	0.00	0.58	0.52	0.24	0.21	0.66	0.85	56.47	
10-19	0.00	0.01	0.30	0.82	0.16	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.03	1.39	
20-29	0.00	0.01	0.12	0.34	0.04	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.61	
30-39	0.00	0.04	0.46	0.88	0.15	0.03	0.00	0.00	0.00	0.01	0.00	0.00	0.06	1.64	
40-49	0.01	0.01	0.42	0.63	0.04	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.09	1.24	
50-59	0.00	0.12	0.57	0.49	0.07	0.03	0.03	0.00	0.01	0.00	0.00	0.00	0.03	1.36	
60-79	0.01	0.10	1.02	0.76	0.10	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.10	2.15	
80-99	0.00	0.15	0.78	0.70	0.12	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.07	1.85	
100-149	0.07	0.85	2.15	1.12	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	4.35	
150-199	0.19	1.76	1.75	0.70	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	4.66	
200-299	1.37	4.15	1.75	0.34	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	7.89	
300-399	1.96	2.76	0.57	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	5.56	
400-499	0.06	0.13	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.22	
500-599	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	0.00	
600-799	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	0.00	
≥800	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	0.00	
MISSING	0.19	0.10	0.45	1.16	0.49	0.73	0.09	0.13	0.10	0.10	0.51	6.54	10.62	100.00	
TOTAL CUMUL	3.90	10.29	10.89	17.37	11.44	9.74	5.91	5.78	6.54	4.14	4.30	9.71	100.00		
TOTAL	3.90	14.19	25.07	42.44	53.88	63.62	69.53	75.31	81.85	85.99	90.29	100.00			

NUMBER OF OBSERVATIONS = 6696

Table 367. Joint Percentage Frequency Distribution of 144- minus 5.5-foot Temperature Difference (°F) and Hourly Amounts of Net Radiation on a Horizontal Surface in Tenths of Langleys

NOVEMBER 1956-1964		144-5.5-FOOT TEMPERATURE DIFFERENCE (°F)											TOTAL	CUMUL TOTAL
NET RADIATION TENTH OF LANGLEY	≤-3.0	-2.9	-1.9	-0.9	0.1	1.1	2.1	3.1	4.1	6.1	>8.0	MISSING		
≤-75	0.00	0.00	0.00	1.06	1.45	0.77	0.54	0.35	0.28	0.02	0.02	0.08	4.57	4.57
-74- -50	0.00	0.00	0.09	1.81	4.04	3.40	2.76	1.96	2.27	0.99	0.54	0.48	18.33	22.90
-49- -25	0.00	0.02	0.17	4.24	3.36	1.88	1.08	1.11	1.40	0.68	0.56	0.37	14.88	37.78
-24- 0	0.02	0.31	0.86	13.16	2.53	1.16	0.40	0.22	0.19	0.09	0.08	0.90	19.91	57.69
1-9	0.00	0.00	0.20	1.00	0.11	0.06	0.03	0.00	0.00	0.00	0.00	0.06	1.47	59.15
10-19	0.00	0.05	0.39	1.20	0.08	0.02	0.00	0.02	0.00	0.00	0.00	0.14	1.88	61.03
20-29	0.02	0.03	0.35	0.56	0.02	0.00	0.00	0.02	0.00	0.00	0.00	0.02	1.02	62.05
30-39	0.03	0.06	0.77	1.16	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.08	2.13	64.18
40-49	0.00	0.06	0.60	0.43	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.06	1.17	65.35
50-59	0.00	0.09	0.85	0.39	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.06	1.45	66.81
60-79	0.02	0.32	1.81	0.91	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.05	3.13	69.94
80-99	0.02	0.45	1.25	0.49	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.15	2.38	72.31
100-149	0.06	1.82	2.38	0.40	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.08	4.78	77.10
150-199	0.48	2.45	1.06	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	4.35	81.45
200-299	0.74	2.25	0.43	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	3.61	85.06
300-399	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	85.08
400-499	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	85.08
500-599	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	85.09
600-799	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	85.11
≥800	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	85.11
MISSING	0.09	0.34	0.57	3.12	1.85	0.86	0.40	0.31	0.08	0.06	0.00	0.00	0.00	85.11
TOTAL CUMUL	1.47	8.30	11.79	30.28	13.61	8.19	5.22	3.97	4.23	1.84	1.19	9.92	14.89	100.00
TOTAL	1.47	9.77	21.56	51.84	65.45	73.64	78.86	82.82	87.05	88.89	90.08	100.00		

NUMBER OF OBSERVATIONS = 6480

DECEMBER 1956-1964		144-5.5-FOOT TEMPERATURE DIFFERENCE (°F)											TOTAL	CUMUL TOTAL
NET RADIATION TENTH OF LANGLEY	≤-3.0	-2.9	-1.9	-0.9	0.1	1.1	2.1	3.1	4.1	6.1	>8.0	MISSING		
≤-75	0.00	0.00	0.00	1.72	1.40	0.64	0.31	0.12	0.04	0.01	0.00	0.15	4.41	4.41
-74- -50	0.00	0.00	0.18	3.70	4.99	3.81	1.30	1.14	0.87	0.42	0.13	1.48	18.01	22.42
-49- -25	0.00	0.01	0.28	4.87	2.97	1.42	0.81	0.72	1.27	0.64	0.73	0.97	14.70	37.11
-24- 0	0.01	0.36	1.73	18.88	1.84	0.73	0.24	0.18	0.24	0.04	0.15	1.40	25.81	62.92
1-9	0.00	0.10	0.34	1.52	0.09	0.01	0.00	0.00	0.00	0.00	0.00	0.06	2.14	65.05
10-19	0.00	0.19	1.02	1.67	0.24	0.01	0.01	0.00	0.00	0.00	0.00	0.18	3.33	67.38
20-29	0.00	0.12	0.75	0.94	0.00	0.00	0.00	0.01	0.01	0.03	0.00	0.16	2.03	70.42
30-39	0.00	0.16	1.40	0.99	0.03	0.01	0.00	0.01	0.00	0.00	0.01	0.24	2.87	73.28
40-49	0.00	0.16	0.70	0.30	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.15	1.33	74.61
50-59	0.00	0.10	1.02	0.60	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.18	1.91	76.52
60-79	0.00	0.36	1.37	0.57	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.10	2.46	78.99
80-99	0.00	0.46	1.25	0.21	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.21	2.15	81.14
100-149	0.06	1.39	1.55	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	3.49	84.63
150-199	0.10	1.40	0.45	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	2.14	86.77
200-299	0.00	0.12	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	86.93
300-399	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	86.93
400-499	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	86.93
500-599	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	86.93
600-799	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	86.93
≥800	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	86.93
MISSING	0.00	0.09	0.84	3.90	0.81	0.27	0.03	0.04	0.00	0.00	0.00	0.00	0.00	86.93
TOTAL CUMUL	0.18	5.05	12.92	40.20	12.43	6.94	2.72	2.23	2.43	1.15	1.03	12.72	13.07	100.00
TOTAL	0.18	5.23	18.15	58.35	70.77	77.72	80.44	82.66	85.10	86.25	87.28	100.00		

NUMBER OF OBSERVATIONS = 6696

Table 368. Joint Percentage Frequency Distribution of 144- minus 5.5-foot Temperature Difference (°F) and Hourly Amounts of Net Radiation on a Horizontal Surface in Langleys. June 1956-December 1964

NET RADIATION TENTH OF LANGLEY	144-5.5-FOOT TEMPERATURE DIFFERENCE (°F)												TOTAL	CUMUL TOTAL
	≤-3.0	-2.9	-1.9	-0.9	0.1	1.1	2.1	3.1	4.1	6.1	>8.0	MISSING		
≤-75	0.00	0.00	0.00	0.53	0.87	0.66	0.35	0.24	0.17	0.04	0.01	0.09	2.96	2.96
-74- -50	0.02	0.01	0.06	1.37	2.77	2.78	1.90	1.80	1.95	0.96	0.76	0.59	14.97	17.93
-49- -25	0.01	0.03	0.17	2.74	2.95	2.18	1.47	1.54	2.09	1.19	1.08	0.78	16.24	34.17
-24- 0	0.03	0.12	0.72	9.21	2.46	1.35	0.63	0.48	0.46	0.20	0.19	0.83	16.67	50.84
1-9	0.00	0.02	0.16	0.80	0.17	0.07	0.04	0.01	0.01	0.00	0.00	0.07	1.34	52.18
10-19	0.00	0.04	0.37	1.02	0.21	0.10	0.03	0.01	0.01	0.00	0.00	0.10	1.89	54.07
20-29	0.00	0.03	0.30	0.52	0.06	0.03	0.01	0.00	0.01	0.00	0.00	0.05	1.03	55.10
30-39	0.01	0.04	0.54	0.83	0.10	0.05	0.01	0.01	0.01	0.00	0.00	0.09	1.69	56.79
40-49	0.00	0.06	0.43	0.47	0.09	0.03	0.01	0.01	0.00	0.00	0.00	0.07	1.17	57.95
50-59	0.00	0.07	0.56	0.47	0.05	0.01	0.01	0.00	0.00	0.00	0.00	0.07	1.24	59.20
60-79	0.01	0.20	1.06	0.82	0.14	0.04	0.01	0.01	0.00	0.00	0.00	0.11	2.39	61.59
80-99	0.01	0.27	0.96	0.59	0.09	0.04	0.00	0.00	0.00	0.00	0.00	0.11	2.07	63.66
100-149	0.05	1.02	1.98	0.86	0.10	0.02	0.00	0.00	0.00	0.00	0.00	0.17	4.22	67.88
150-199	0.14	1.26	1.26	0.54	0.06	0.01	0.00	0.00	0.00	0.00	0.00	0.18	3.45	71.33
200-299	0.57	2.35	1.53	0.50	0.05	0.01	0.00	0.00	0.00	0.00	0.00	0.31	5.32	76.66
300-399	0.96	1.99	0.90	0.19	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.26	4.32	80.97
400-499	1.07	1.61	0.56	0.12	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.19	3.56	84.53
500-599	0.84	1.12	0.29	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	2.41	86.93
600-799	0.27	0.30	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.67	87.60
≥800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	87.60
MISSING	0.10	0.33	0.74	2.76	0.96	0.51	0.17	0.11	0.12	0.06	0.09	6.43	12.40	100.00
TOTAL CUMUL	4.09	10.88	12.65	24.40	11.16	7.89	4.64	4.22	4.82	2.45	2.14	10.65	100.00	
TOTAL	4.09	14.96	27.62	52.02	63.18	71.07	75.71	79.93	84.75	87.20	89.35	100.00		

NUMBER OF OBSERVATIONS = 75264

Table 369. Joint Percentage Frequency Distribution of Hourly Amounts of Net Radiation on a Horizontal Surface in Tenths of Langleys and 5.5-foot Temperature (°F)

JANUARY 1957-1964		NET RADIATION IN TENTHS OF LANGLEYS											TOTAL	CUMUL TOTAL
TEMPERATURE (°F)	≤-50	-49--25	-24-0	1-19	20-39	40-59	60-99	100-199	200-399	400-799	≥ 800	MISSING	TOTAL	CUMUL TOTAL
≤-16	0.15	0.13	0.12	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.44
-15- -11	0.79	0.45	0.15	0.10	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00	1.56	2.00
-10- -6	1.01	1.02	0.29	0.12	0.05	0.03	0.08	0.02	0.00	0.00	0.00	0.00	2.62	4.62
-5- -1	1.90	1.34	1.16	0.27	0.24	0.17	0.15	0.00	0.00	0.00	0.00	0.00	5.36	9.98
0-4	3.36	1.76	1.70	0.20	0.35	0.25	0.25	0.13	0.00	0.00	0.00	0.13	8.43	18.41
5-9	2.40	1.66	1.75	0.40	0.71	0.49	0.35	0.37	0.03	0.00	0.00	0.82	8.99	27.40
10-14	2.50	1.63	1.68	0.35	0.49	0.50	0.50	0.49	0.07	0.00	0.00	0.79	9.01	36.41
15-19	2.25	1.48	3.34	0.55	0.54	0.44	0.57	0.42	0.02	0.00	0.00	0.81	10.42	46.82
20-24	1.73	1.68	4.82	0.71	0.76	0.52	0.69	0.30	0.05	0.00	0.00	1.19	12.45	59.27
25-29	2.44	1.44	6.52	1.18	0.82	0.77	0.84	0.74	0.12	0.00	0.00	1.46	16.33	75.60
30-34	2.23	1.88	4.12	0.96	0.96	0.79	1.28	0.76	0.03	0.00	0.00	2.12	15.12	90.73
35-39	0.91	0.44	1.18	0.50	0.25	0.30	0.39	0.66	0.02	0.00	0.00	0.91	5.54	96.27
40-44	0.15	0.18	0.25	0.17	0.22	0.10	0.27	0.44	0.07	0.00	0.00	0.40	2.25	98.52
45-49	0.10	0.03	0.22	0.07	0.02	0.05	0.03	0.12	0.02	0.00	0.00	0.03	0.69	99.21
50-54	0.00	0.02	0.13	0.05	0.00	0.00	0.02	0.02	0.00	0.00	0.00	0.30	0.54	99.75
55-59	0.00	0.00	0.07	0.05	0.00	0.02	0.02	0.03	0.05	0.00	0.00	0.02	0.25	100.00
60-64	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	100.00
65-69	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	100.00
70-74	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	100.00
75-79	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	100.00
80-84	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	100.00
85-89	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	100.00
90-94	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	100.00
≥95	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	100.00
MISSING	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	100.00
TOTAL	21.93	15.17	27.49	5.68	5.44	4.49	5.44	4.49	0.47	0.00	0.00	9.41	100.00	
CUMUL TOTAL	21.93	37.10	64.58	70.26	75.71	80.19	85.64	90.12	90.59	90.59	90.59	100.00		

NUMBER OF OBSERVATIONS = 5952

FEBRUARY 1957-1964		NET RADIATION IN TENTHS OF LANGLEYS											TOTAL	CUMUL TOTAL
TEMPERATURE (°F)	≤-50	-49--25	-24-0	1-19	20-39	40-59	60-99	100-199	200-399	400-799	≥ 800	MISSING	TOTAL	CUMUL TOTAL
≤-16	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	0.00
-15- -11	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.28
-10- -6	1.16	0.15	0.02	0.00	0.02	0.02	0.02	0.00	0.00	0.00	0.00	0.00	1.38	1.66
-5- -1	2.03	0.31	0.11	0.02	0.00	0.04	0.02	0.06	0.00	0.00	0.00	0.00	2.58	4.24
0-4	2.40	0.74	0.35	0.11	0.06	0.15	0.13	0.07	0.06	0.00	0.00	0.02	4.07	8.31
5-9	2.10	0.68	0.59	0.09	0.13	0.24	0.35	0.44	0.11	0.00	0.00	0.18	4.92	13.24
10-14	2.47	0.92	1.51	0.28	0.28	0.29	0.33	0.76	0.17	0.00	0.00	0.44	7.45	20.69
15-19	2.29	1.46	2.42	0.26	0.41	0.37	0.72	0.83	0.26	0.00	0.00	0.72	9.72	30.40
20-24	3.36	2.27	5.05	0.74	0.63	0.52	0.87	1.07	0.33	0.00	0.00	1.12	15.95	46.35
25-29	3.89	2.30	5.83	1.18	0.81	0.74	1.07	0.74	0.83	0.00	0.00	1.55	18.93	65.28
30-34	2.06	1.92	6.38	1.62	0.90	0.98	1.68	1.70	0.81	0.04	0.00	2.49	20.58	85.86
35-39	0.79	0.83	1.42	0.57	0.29	0.24	0.79	1.42	0.81	0.00	0.00	0.90	8.08	93.93
40-44	0.28	0.17	0.55	0.06	0.15	0.07	0.17	0.65	0.92	0.00	0.00	0.46	3.47	97.40
45-49	0.02	0.02	0.09	0.09	0.13	0.02	0.20	0.20	0.41	0.04	0.00	0.31	1.53	98.93
50-54	0.00	0.00	0.09	0.04	0.00	0.00	0.00	0.11	0.18	0.02	0.00	0.26	0.70	99.63
55-59	0.00	0.00	0.06	0.00	0.04	0.00	0.04	0.09	0.00	0.00	0.00	0.07	0.29	99.93
60-64	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.02	0.00	0.00	0.00	0.06	99.98
65-69	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	99.98
70-74	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	99.98
75-79	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	99.98
80-84	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	99.98
85-89	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	99.98
90-94	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	99.98
≥95	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	99.98
MISSING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.02	100.00
TOTAL	23.12	11.76	24.47	5.05	3.83	3.67	6.40	8.17	4.90	0.09	0.00	8.54	100.00	
CUMUL TOTAL	23.12	34.88	59.35	64.40	68.23	71.90	78.30	86.47	91.37	91.46	91.46	100.00		

NUMBER OF OBSERVATIONS = 5424

Table 370. Joint Percentage Frequency Distribution of Hourly Amounts of Net Radiation on a Horizontal Surface in Tenths of Langleys and 5.5-foot Temperature (°F)

MARCH 1957-1964		NET RADIATION IN TENTHS OF LANGLEYS											TOTAL	CUMUL TOTAL
TEMPERATURE (°F)	≤-50	-49--25	-24-0	1-19	20-39	40-59	60-99	100-199	200-399	400-799	≥800	MISSING	TOTAL	CUMUL TOTAL
≤-16	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	0.00
-15- -11	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	0.00
-10- -6	0.08	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-5- -1	0.25	0.00	0.03	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.10
0-4	0.22	0.03	0.02	0.00	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.30	0.40
5-9	0.76	0.34	0.07	0.02	0.03	0.03	0.05	0.03	0.00	0.00	0.00	0.00	0.30	0.71
10-14	1.34	0.35	0.34	0.07	0.05	0.02	0.03	0.12	0.00	0.00	0.00	0.00	1.33	2.03
15-19	2.08	0.81	0.62	0.10	0.12	0.12	0.15	0.22	0.00	0.00	0.00	0.02	2.34	4.37
20-24	3.48	0.94	1.60	0.32	0.34	0.27	0.55	0.47	0.39	0.00	0.00	0.27	4.49	8.85
25-29	5.19	3.16	2.77	0.49	0.52	0.32	0.77	0.87	0.66	0.05	0.00	0.35	8.70	17.56
30-34	3.75	3.39	7.46	1.01	0.66	1.04	1.28	2.10	1.11	0.54	0.00	5.33	27.65	33.37
35-39	1.38	1.68	2.52	0.49	0.47	0.52	0.82	2.12	2.32	0.62	0.00	3.31	16.25	61.02
40-44	0.52	0.49	0.67	0.20	0.27	0.18	0.52	1.43	2.13	0.59	0.02	0.91	16.25	77.27
45-49	0.47	0.60	0.86	0.10	0.15	0.20	0.25	0.47	1.34	0.59	0.02	0.91	7.93	85.20
50-54	0.40	0.64	0.35	0.05	0.07	0.10	0.17	0.40	0.84	0.17	0.00	0.77	5.75	90.94
55-59	0.20	0.34	0.12	0.07	0.03	0.05	0.07	0.18	0.45	0.17	0.00	0.77	3.97	94.91
60-64	0.07	0.13	0.03	0.02	0.02	0.05	0.08	0.10	0.30	0.24	0.00	0.30	1.98	96.89
65-69	0.00	0.00	0.02	0.05	0.03	0.00	0.07	0.10	0.30	0.15	0.00	0.10	1.14	98.03
70-74	0.00	0.00	0.00	0.02	0.02	0.00	0.00	0.07	0.13	0.05	0.00	0.05	0.34	98.86
75-79	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.05	0.00	0.00	0.00	0.07	99.19
80-84	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	99.26
85-89	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	99.26
90-94	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	99.26
≥95	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	99.26
MISSING	0.29	0.10	0.12	0.02	0.02	0.02	0.05	0.10	0.03	0.00	0.00	0.00	0.74	100.00
TOTAL	20.48	13.02	17.59	3.01	2.81	2.94	4.91	8.79	10.06	2.87	0.02	13.51	100.00	
CUMUL TOTAL	20.48	33.50	51.09	54.10	56.91	59.85	64.75	73.54	83.60	86.48	86.49	100.00		

NUMBER OF OBSERVATIONS = 5952

APRIL 1957-1964		NET RADIATION IN TENTHS OF LANGLEYS											TOTAL	CUMUL TOTAL
TEMPERATURE (°F)	≤-50	-49--25	-24-0	1-19	20-39	40-59	60-99	100-199	200-399	400-799	≥800	MISSING	TOTAL	CUMUL TOTAL
≤-16	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	0.00
-15- -11	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	0.00
-10- -6	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	0.00
-5- -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	0.00
0-4	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	0.00
5-9	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	0.00
10-14	0.02	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
15-19	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02
20-24	0.89	0.12	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.21
25-29	2.73	0.49	0.24	0.03	0.07	0.02	0.02	0.05	0.02	0.00	0.00	0.00	1.06	1.27
30-34	3.44	1.61	2.29	0.35	0.17	0.14	0.21	0.56	0.17	0.05	0.00	0.57	4.24	5.50
35-39	3.16	1.53	2.17	0.38	0.26	0.36	0.35	0.99	1.02	0.31	0.00	1.84	10.83	16.34
40-44	2.81	1.70	2.36	0.38	0.31	0.33	0.68	1.32	1.25	1.11	0.00	3.00	13.54	29.88
45-49	2.20	1.34	1.70	0.30	0.24	0.24	0.61	1.28	1.51	1.11	0.00	3.99	16.25	46.13
50-54	1.68	1.35	1.08	0.19	0.23	0.16	0.61	0.73	1.51	1.28	0.00	3.47	14.18	60.31
55-59	0.80	0.89	1.13	0.28	0.07	0.10	0.50	0.92	1.08	1.93	0.00	2.57	11.88	72.19
60-64	0.75	0.95	0.71	0.07	0.05	0.10	0.50	0.92	1.08	1.93	0.00	2.67	10.36	82.55
65-69	0.28	0.64	0.28	0.16	0.03	0.12	0.17	0.69	1.28	1.13	0.00	1.42	7.36	89.91
70-74	0.21	0.16	0.17	0.05	0.07	0.02	0.23	0.50	1.09	1.09	0.00	0.71	5.16	95.07
75-79	0.00	0.00	0.03	0.07	0.02	0.02	0.03	0.38	0.80	0.63	0.00	0.12	2.64	97.71
80-84	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.10	0.59	0.47	0.00	0.03	1.42	99.13
85-89	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.03	0.26	0.42	0.00	0.02	0.75	99.88
90-94	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	99.88
≥95	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	99.88
MISSING	0.10	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99.88
TOTAL	19.25	10.78	12.24	2.26	1.53	1.65	3.51	7.57	11.04	9.74	0.00	20.43	100.00	
CUMUL TOTAL	19.25	30.03	42.27	44.53	46.06	47.71	51.22	58.78	69.83	79.57	79.57	100.00		

NUMBER OF OBSERVATIONS = 5760



Table 372. Joint Percentage Frequency Distribution of Hourly Amounts of Net Radiation on a Horizontal Surface in Tenths of Langleys and 5.5-foot Temperature (°F)

JULY 1956-1964		NET RADIATION IN TENTHS OF LANGLEYS												TOTAL	CUMUL TOTAL
TEMPERATURE (°F)	≤-50	-49--25	-24-0	1-19	20-39	40-59	60-99	100-199	200-399	400-799	≥800	MISSING			
≤-16	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	0.00	
-15--11	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	0.00	
-10--6	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	0.00	
-5--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	0.00	
0-4	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	0.00	
5-9	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	0.00	
10-14	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	0.00	
15-19	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	0.00	
20-24	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	0.00	
25-29	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	0.00	
30-34	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	0.00	
35-39	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	0.00	
40-44	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	0.00	
45-49	0.18	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
50-54	1.33	0.30	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
55-59	2.67	2.67	0.49	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	1.79	
60-64	2.09	6.08	2.97	0.64	0.10	0.01	0.01	0.07	0.00	0.00	0.00	0.00	0.99	7.08	
65-69	1.43	6.68	5.24	0.91	0.45	0.39	1.24	0.43	0.21	0.01	0.00	0.00	2.42	15.41	
70-74	0.39	3.41	3.24	0.49	0.21	0.22	1.06	1.64	1.37	0.67	0.00	0.00	4.47	24.49	
75-79	0.04	0.85	1.24	0.22	0.19	0.22	1.06	1.99	3.64	2.49	0.01	0.00	3.00	20.16	
80-84	0.01	0.01	0.24	0.12	0.03	0.09	0.67	1.73	4.51	4.32	0.00	0.00	1.19	15.68	
85-89	0.00	0.00	0.00	0.00	0.00	0.00	0.04	1.11	2.96	4.75	0.01	0.55	10.56	95.37	
90-94	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.34	1.45	2.14	0.00	0.25	4.23	99.60	
≥95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.10	0.13	0.00	0.04	0.31	99.91	
MISSING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.04	0.00	0.00	0.09	100.00	
TOTAL	8.15	20.01	13.47	2.54	1.02	1.06	4.51	7.36	14.28	14.56	0.03	13.01	100.00		
CUMUL TOTAL	8.15	28.17	41.64	44.18	45.19	46.25	50.76	58.12	72.40	86.96	86.99	100.00			

NUMBER OF OBSERVATIONS = 6696

AUGUST 1956-1964		NET RADIATION IN TENTHS OF LANGLEYS												TOTAL	CUMUL TOTAL
TEMPERATURE (°F)	≤-50	-49--25	-24-0	1-19	20-39	40-59	60-99	100-199	200-399	400-799	≥800	MISSING			
≤-16	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	0.00	
-15--11	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	0.00	
-10--6	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	0.00	
-5--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	0.00	
0-4	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	0.00	
5-9	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	0.00	
10-14	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	0.00	
15-19	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	0.00	
20-24	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	0.00	
25-29	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	0.00	
30-34	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	0.00	
35-39	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	0.00	
40-44	0.01	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	
45-49	0.25	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
50-54	1.60	0.87	0.19	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.04	0.04	
55-59	3.36	3.38	0.94	0.03	0.10	0.18	0.13	0.00	0.00	0.00	0.00	0.19	2.87	3.38	
60-64	2.33	5.84	2.26	0.22	0.27	0.46	0.55	0.13	0.04	0.00	0.00	0.63	8.93	12.31	
65-69	1.54	7.08	4.61	0.57	0.40	0.58	0.91	0.54	0.16	0.10	0.00	1.55	14.29	26.60	
70-74	0.25	4.44	3.26	0.37	0.61	0.64	1.05	1.58	1.61	0.64	0.00	3.63	23.16	49.76	
75-79	0.04	1.60	1.27	0.33	0.21	0.33	0.85	2.42	2.88	2.15	0.00	1.84	19.91	69.67	
80-84	0.03	0.13	0.09	0.16	0.16	0.19	0.19	2.14	4.29	3.84	0.00	0.82	15.71	85.38	
85-89	0.00	0.00	0.01	0.00	0.00	0.00	0.04	1.19	3.48	3.36	0.00	0.55	9.56	94.94	
90-94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42	1.48	2.18	0.00	0.22	4.39	99.33	
≥95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.16	0.40	0.00	0.01	0.63	99.96	
MISSING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.00	0.00	0.04	100.00	
TOTAL	9.42	23.42	12.63	1.69	1.78	2.42	3.73	8.47	14.13	12.71	0.00	9.60	100.00		
CUMUL TOTAL	9.42	32.84	45.47	47.16	48.94	51.36	55.09	63.56	77.69	90.40	90.40	100.00			

NUMBER OF OBSERVATIONS = 6696







Table 375. Joint Percentage Frequency Distribution of Hourly Amounts of Net Radiation on a Horizontal Surface in Tenths of Langleys and 5.5-foot Air Temperature (°F). June 1956-December 1964

TEMPERATURE (°F)	NET RADIATION IN TENTHS OF LANGLEYS											MISSING	TOTAL	CUMUL TOTAL	
	≤-50	-49--25	-24-0	1-19	20-39	40-59	60-99	100-199	200-399	400-799	≥800				
≤-16	0.01	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-15- -11	0.11	0.06	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-10- -6	0.25	0.13	0.03	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-5- -1	0.48	0.21	0.15	0.04	0.03	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
0-4	0.67	0.25	0.21	0.05	0.05	0.04	0.04	0.03	0.00	0.00	0.00	0.00	0.01	0.05	0.00
5-9	0.62	0.31	0.29	0.06	0.09	0.07	0.07	0.08	0.01	0.00	0.00	0.00	0.11	1.72	4.75
10-14	0.77	0.33	0.39	0.07	0.09	0.08	0.10	0.13	0.02	0.00	0.00	0.00	0.16	2.14	6.89
15-19	0.90	0.47	0.75	0.11	0.14	0.10	0.15	0.15	0.02	0.00	0.00	0.00	0.22	3.01	9.90
20-24	1.28	0.66	1.38	0.19	0.20	0.15	0.21	0.22	0.07	0.00	0.00	0.00	0.38	4.75	14.64
25-29	1.77	0.90	1.99	0.34	0.28	0.23	0.33	0.30	0.13	0.00	0.00	0.00	0.69	6.96	21.61
30-34	1.78	1.17	2.30	0.48	0.33	0.31	0.48	0.58	0.19	0.05	0.00	0.00	1.42	9.09	30.70
35-39	1.49	0.80	1.20	0.28	0.20	0.19	0.33	0.60	0.37	0.07	0.00	0.00	1.05	6.59	37.29
40-44	1.47	0.85	0.91	0.19	0.17	0.12	0.28	0.54	0.48	0.14	0.00	0.00	0.84	5.99	43.28
45-49	1.56	0.88	0.80	0.18	0.15	0.15	0.26	0.51	0.47	0.16	0.00	0.00	1.07	6.19	49.47
50-54	1.65	1.34	0.95	0.18	0.16	0.11	0.29	0.48	0.56	0.20	0.00	0.00	1.00	6.93	56.41
55-59	1.41	1.76	0.97	0.22	0.15	0.14	0.31	0.58	0.60	0.36	0.00	0.00	1.26	7.77	64.18
60-64	0.85	2.29	1.30	0.22	0.17	0.17	0.31	0.61	0.85	0.47	0.00	0.00	1.27	8.52	72.69
65-69	0.56	2.14	1.61	0.31	0.22	0.20	0.42	0.85	1.18	0.69	0.00	0.00	1.49	9.68	82.37
70-74	0.20	1.24	0.97	0.16	0.17	0.15	0.39	0.90	1.53	1.02	0.00	0.00	0.78	7.51	89.88
75-79	0.05	0.39	0.35	0.09	0.07	0.09	0.30	0.63	1.54	1.39	0.00	0.00	0.34	5.26	95.14
80-84	0.01	0.02	0.08	0.04	0.03	0.05	0.14	0.33	1.08	1.24	0.00	0.00	0.15	3.16	98.30
85-89	0.00	0.00	0.00	0.00	0.00	0.01	0.04	0.13	0.45	0.70	0.00	0.00	0.07	1.40	99.71
90-94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.07	0.12	0.00	0.00	0.01	0.21	99.92
≥95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	99.93
MISSING	0.03	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01	99.93
TOTAL	17.93	16.24	16.67	3.23	2.71	2.41	4.46	7.67	9.64	6.63	0.01	12.40	100.00	0.07	100.00
CUMUL TOTAL	17.93	34.17	50.84	54.07	56.79	59.20	63.66	71.33	80.97	87.60	87.60	100.00			

NUMBER OF OBSERVATIONS = 75264



















Table 384. Joint Percentage Frequency Distribution of 144- minus 5.5-foot Temperature Difference (°F) and 1-cm Soil Temperature (°F)

		MARCH 1953-1964													
SOIL TEMPERATURE (°F)		144 MINUS 5.5-FOOT AIR TEMPERATURE DIFFERENCE (°F)													
		≤-3.0	-2.9	-1.9	-0.9	0.1	1.1	2.1	3.1	4.1	6.1	>8.0	MISSING	TOTAL	CUMUL TOTAL
<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	0.00	0.00
1-5	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	0.00	0.00
6-10	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	0.00	0.00
11-15	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	0.00	0.00
16-20	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	0.00	0.00
21-25	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	0.00	0.00
26-30	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	0.00	0.00
31-35	0.93	4.37	7.30	19.03	7.03	4.77	2.96	2.12	2.02	0.00	0.01	0.00	0.00	0.00	0.00
36-40	0.77	1.70	3.01	8.04	2.35	1.76	1.16	0.82	0.83	0.72	0.48	4.27	0.06	0.80	0.80
41-45	0.78	1.72	1.78	2.70	1.43	0.76	0.55	0.25	0.17	0.30	0.08	3.37	24.20	55.99	56.79
46-50	0.35	0.59	0.55	0.76	0.43	0.11	0.07	0.03	0.07	0.06	0.03	1.87	12.11	24.20	80.99
51-55	0.15	0.30	0.25	0.26	0.10	0.03	0.01	0.00	0.00	0.04	0.06	0.85	3.91	12.11	93.10
56-60	0.01	0.16	0.09	0.03	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.24	0.85	3.91	97.01
61-65	0.00	0.06	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	1.33	98.34
66-70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29	1.33	98.63
71-75	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	0.00	98.70
76-80	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	0.00	98.70
81-85	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	0.00	98.70
86-90	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	0.00	98.70
91-95	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	0.00	98.70
96-100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	98.70
>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	0.00	0.00	98.70
MISSING	0.00	0.07	0.18	0.46	0.19	0.10	0.06	0.06	0.04	0.06	0.09	0.00	0.00	0.00	98.70
TOTAL CUMUL TOTAL	2.99	8.97	13.25	31.69	11.62	7.58	4.83	3.27	3.20	1.20	0.75	10.65	100.00	1.30	100.00

TOTAL OBSERVATIONS = 8928

		APRIL 1953-1964													
SOIL TEMPERATURE (°F)		144 MINUS 5.5-FOOT AIR TEMPERATURE DIFFERENCE (°F)													
		≤-3.0	-2.9	-1.9	-0.9	0.1	1.1	2.1	3.1	4.1	6.1	>8.0	MISSING	TOTAL	CUMUL TOTAL
<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	0.00	0.00
1-5	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	0.00	0.00
6-10	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	0.00	0.00
11-15	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	0.00	0.00
16-20	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	0.00	0.00
21-25	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	0.00	0.00
26-30	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	0.00	0.00
31-35	0.13	0.21	0.32	0.64	0.31	0.17	0.20	0.22	0.22	0.09	0.07	0.44	3.02	3.02	0.00
36-40	0.24	0.79	1.11	3.70	1.46	0.95	0.61	1.01	0.87	0.42	0.29	2.27	13.72	16.74	0.00
41-45	1.20	1.86	2.62	5.53	2.25	1.52	0.78	0.95	0.96	0.47	0.44	2.91	21.48	38.22	0.00
46-50	1.90	2.16	2.16	4.92	2.48	2.07	1.03	0.68	0.97	0.34	0.14	3.88	22.73	60.95	0.00
51-55	2.03	2.27	2.53	4.32	2.03	1.41	0.93	0.64	0.58	0.37	0.31	3.67	21.08	82.03	0.00
56-60	0.97	1.74	1.76	2.48	1.60	0.79	0.44	0.28	0.24	0.15	0.03	1.88	12.35	94.38	0.00
61-65	0.49	0.88	0.93	1.03	0.35	0.30	0.08	0.00	0.01	0.01	0.00	0.31	4.39	98.76	0.00
66-70	0.06	0.13	0.24	0.15	0.08	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.69	99.46	0.00
71-75	0.01	0.02	0.06	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	99.59	0.00
76-80	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	0.00	99.59
81-85	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	0.00	99.59
86-90	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	0.00	99.59
91-95	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	0.00	99.59
96-100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99.59
>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	0.00	0.00	99.59
MISSING	0.01	0.00	0.01	0.09	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99.59
TOTAL CUMUL TOTAL	7.04	10.06	11.75	22.91	10.63	7.23	4.07	3.77	3.85	1.85	1.28	15.56	100.00	0.41	100.00

TOTAL OBSERVATIONS = 8640













## Section 2.7

Relationships Involving Station Pressure

Tables 390 through 394. Joint Percentage Frequency Distribution of Hourly Amounts of Net Radiation on a Horizontal Surface in Tenths of Langleys and Station Pressure in Inches of Mercury. Monthly and Total Period. June 1956-December 1964.

When a strong high pressure area is located over a station and the sky is clear, there will be strong outgoing radiation at night and pronounced incoming radiation during the day. With low pressure systems and cloudy conditions, the accompanying net radiation values decrease.

Because of the nature of the sensor, observations of net radiation cannot be made during precipitation periods. It is well known that most prolonged periods of rain or snow at Argonne occur during the passage of fronts associated with low pressure systems. Thus, since most of the data are listed as "missing" because of precipitation and most precipitation conditions are associated with low pressures, a bias is introduced into the data.

Tables 395 through 399. Joint Percentage Frequency Distribution of Hourly Amounts of Solar Radiation on a Horizontal Surface in Langleys and Station Pressure in Inches of Mercury during the Hours 0400-2000 CST. Monthly and Total Period. September 1950-December 1964.

Large hourly amounts of solar radiation are expected to be associated with high station pressure, as, in general, fewer clouds occur during high pressure conditions. The tables confirm this though not strikingly because they are based on data taken during the period 0400 through 2000 CST. High frequencies are recorded in the zero category during winter months.

Tables 400 through 404. Joint Percentage Frequency Distribution of 144-minus 5.5-foot Temperature Difference ( $^{\circ}\text{F}$ ) and Station Pressure in Inches of Mercury. Monthly and Total Period. July 1951-December 1964.

The relationship between station pressure and 144- minus 5.5-foot temperature difference is not immediately evident from these tables, however, the tables do indicate a tendency for strong inversions to accompany high pressure. Similarly, strong lapse values also tend to occur with high pressure.

Tables 405 through 409. Joint Percentage Frequency Distribution of 5-foot Dewpoint Temperature ( $^{\circ}\text{F}$ ) and Station Pressure in Inches of Mercury. Monthly and Total Period. January 1950-December 1964.

These tables show a tendency for higher dewpoint temperatures to be associated with lower pressures especially during the winter. This is expected since moist air masses are usually associated with low pressure areas.

Tables 410 through 414. Joint Percentage Frequency Distribution of Relative Humidity in Percent and Station Pressure in Inches of Mercury. Monthly and Total Period. January 1950-December 1964.

These tables show a tendency for high humidity to be associated with low pressure and low humidity with high pressure.

Tables 415 through 419. Joint Percentage Frequency Distribution of Hourly Amounts of Precipitation in Inches and Station Pressure in Inches of Mercury. Monthly and Total Period. January 1950-December 1964.

Precipitation may occur at any atmospheric pressure, but large amounts are less likely when the pressure is high.

Table 420. Joint Percentage Frequency Distribution of 2-hour, 11-hour and 23-hour Range of Temperature ( $^{\circ}$ F) and of Station Pressure in Inches of Mercury. Total Period. January 1950-December 1964.

Table 421. Joint Percentage Frequency Distribution of 2-hour, 11-hour and 23-hour Range of Relative Humidity in Percent and of Station Pressure in Inches of Mercury. Total Period. January 1950-December 1964.

Table 422. Joint Percentage Frequency Distribution of 2-hour, 11-hour and 23-hour Range of 19-foot Wind Speed (mph) and of Station Pressure in Inches of Mercury. Total Period. January 1950-December 1964.

Simultaneous ranges of pressure and each of the variables--temperature, relative humidity and 19-foot wind speed--were computed for periods of 2, 11 and 23 hours. These data are of use in assessing the hazards from an accident involving radioactive materials.

No striking relation is evident between the range of temperature and pressure. Over a two-hour period in 39.5 percent of the observations the temperature changed less than  $3^{\circ}$ F and the pressure less than 0.03 inches of mercury. Over an 11-hour interval in 53.5 percent of the observations the pressure range was less than 0.20 inches of mercury and the temperature range less than  $25^{\circ}$ F.

The distribution of simultaneous ranges of pressure and relative humidity in two hours shows that in 50 percent of the cases the station pressure varies less than 0.03 inches of mercury while the relative humidity varies less than 10 percent. The 11-hour and 23-hour distributions show a

slight tendency for a negative correlation, i.e., high ranges of one element are associated with low ranges of the other element. This is indicated by the shift of the modal relative humidity interval downward and to the left for pressure ranges over 0.10 inches of mercury in 11 hours and over 0.20 inches of mercury in 23 hours.

The 2-hour distribution of simultaneous ranges of station pressure and 19-foot wind speed shows 54 percent of the observations having pressure ranges less than 0.03 inches of mercury and wind speed ranges less than 5.0 mph. Both the 11-hour and 23-hour distributions show slight positive correlations.





Table 392. Joint Percentage Frequency Distribution of Hourly Amounts of Net Radiation on a Horizontal Surface in Tenths of Langleys and Station Pressure in Inches of Mercury

JULY 1956-1964. Table with columns for STATION PRESSURE, NET RADIATION IN TENTHS OF LANGLEYS (subdivided into ranges like ≤-50, -49-25, etc.), MISSING, TOTAL, and CUMUL TOTAL. Rows include pressure intervals such as ≤28.29, 28.30-28.39, etc., up to >29.99.

AUGUST 1956-1964. Table with the same structure as the July table, showing joint percentage frequency distribution for the month of August.

SEPTEMBER 1956-1964. Table with the same structure as the previous months, showing joint percentage frequency distribution for the month of September.



Table 394. Joint Percentage Frequency Distribution of Hourly Amounts of Net Radiation on a Horizontal Surface in Tenths of Langleys and Station Pressure in Inches of Mercury. June 1956-December 1964

STATION PRESSURE	NET RADIATION IN TENTHS OF LANGLEYS												TOTAL	CUMUL TOTAL	
	≤-50	-49-25	-24-0	1-19	20-39	40-59	60-99	100-199	200-399	400-799	≥800	MISSING			
≤28.29	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.03
28.30-28.39	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.04	0.07
28.40-28.49	0.01	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.19	0.26
28.50-28.59	0.02	0.02	0.08	0.01	0.01	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.16	0.34	0.60
28.60-28.69	0.06	0.04	0.11	0.05	0.03	0.02	0.03	0.02	0.02	0.00	0.00	0.00	0.26	0.64	1.24
28.70-28.79	0.10	0.12	0.26	0.08	0.04	0.04	0.05	0.07	0.06	0.02	0.00	0.00	0.48	1.30	2.54
28.80-28.89	0.27	0.27	0.57	0.12	0.08	0.07	0.12	0.18	0.14	0.06	0.00	0.00	0.80	2.69	5.23
28.90-28.99	0.62	0.74	1.10	0.20	0.20	0.16	0.29	0.38	0.36	0.24	0.00	0.00	1.37	5.66	10.69
29.00-29.09	1.26	1.69	2.28	0.41	0.32	0.28	0.50	0.83	1.02	0.60	0.00	0.00	2.09	11.28	22.17
29.10-29.19	2.68	3.60	3.43	0.60	0.46	0.40	0.86	1.51	2.06	1.43	0.00	0.00	2.83	19.93	42.10
29.20-29.29	3.75	4.06	3.61	0.63	0.57	0.49	1.00	1.81	2.54	1.88	0.00	0.00	2.26	22.58	64.68
29.30-29.39	3.86	2.99	2.59	0.51	0.44	0.41	0.79	1.42	1.91	1.51	0.00	0.00	1.25	17.70	82.38
29.40-29.49	2.60	1.50	1.38	0.31	0.29	0.28	0.40	0.79	0.95	0.57	0.00	0.00	0.47	9.53	91.91
29.50-29.59	1.60	0.60	0.71	0.18	0.14	0.12	0.23	0.36	0.39	0.21	0.00	0.00	0.15	4.70	96.61
29.60-29.69	0.72	0.38	0.31	0.07	0.09	0.07	0.13	0.17	0.15	0.05	0.00	0.00	0.06	2.20	98.80
29.70-29.79	0.24	0.10	0.13	0.03	0.03	0.05	0.04	0.07	0.02	0.00	0.00	0.00	0.04	0.73	99.54
29.80-29.89	0.08	0.05	0.04	0.01	0.02	0.01	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.26	99.80
29.90-29.99	0.03	0.01	0.01	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.07	99.87
>29.99	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.02	99.89
MISSING	0.01	0.01	0.01	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.05	0.11	100.00
TOTAL	17.93	16.24	16.67	3.23	2.71	2.41	4.45	7.67	9.64	6.63	0.01	12.40	100.00		
CUMUL TOTAL	17.93	34.17	50.84	54.07	56.79	59.20	63.66	71.33	80.97	87.60	87.60	100.00			

TOTAL OBSERVATIONS = 75264







Table 397. Joint Percentage Frequency Distribution of Hourly Amounts of Solar Radiation on a Horizontal Surface in Langleys and Station Pressure in Inches of Mercury during the Hours 0400-2000 CST

Table with columns: STATION PRESSURE, SOLAR RADIATION IN LANGLEYS (0, 1-10, 11-20, 21-30, 31-40, 41-50, 51-60, 61-70, 71-80, 81-90, 91-100, MISSING), TOTAL, CUMUL TOTAL. Rows include pressure ranges from <math>\le 28.79</math> to >29.99 and MISSING, with totals for July 1951-1964.

TOTAL OBSERVATIONS = 7378

Table with columns: STATION PRESSURE, SOLAR RADIATION IN LANGLEYS (0, 1-10, 11-20, 21-30, 31-40, 41-50, 51-60, 61-70, 71-80, 81-90, 91-100, MISSING), TOTAL, CUMUL TOTAL. Rows include pressure ranges from <math>\le 28.29</math> to >29.99 and MISSING, with totals for August 1951-1964.

TOTAL OBSERVATIONS = 7378

Table with columns: STATION PRESSURE, SOLAR RADIATION IN LANGLEYS (0, 1-10, 11-20, 21-30, 31-40, 41-50, 51-60, 61-70, 71-80, 81-90, 91-100, MISSING), TOTAL, CUMUL TOTAL. Rows include pressure ranges from <math>\le 28.29</math> to >29.99 and MISSING, with totals for September 1950-1964.

TOTAL OBSERVATIONS = 7650









Table 402. Joint Percentage Frequency Distribution of 144- minus 5.5-foot Temperature Difference (°F) and Station Pressure in Inches of Mercury

JULY 1951-1964. Table with columns for Station Pressure and Temperature Difference (°F) from -3.0 to >8.0. Rows list station pressure intervals from <math>\le 28.29</math> to >29.99. Includes 'TOTAL' and 'CUMUL TOTAL' columns. Total observations = 10416.

AUGUST 1951-1964. Table with columns for Station Pressure and Temperature Difference (°F) from -3.0 to >8.0. Rows list station pressure intervals from <math>\le 28.29</math> to >29.99. Includes 'TOTAL' and 'CUMUL TOTAL' columns. Total observations = 10416.

SEPTEMBER 1951-1964. Table with columns for Station Pressure and Temperature Difference (°F) from -3.0 to >8.0. Rows list station pressure intervals from <math>\le 28.29</math> to >29.99. Includes 'TOTAL' and 'CUMUL TOTAL' columns. Total observations = 10080.





Table 404. Joint Percentage Frequency Distribution of 144- minus 5.5-foot Temperature Difference (°F) and Station Pressure in Inches of Mercury. July 1951-December 1964

STATION PRESSURE	144 MINUS 5.5-FOOT TEMPERATURE DIFFERENCE (°F)												TOTAL	CUMUL TOTAL
	≤-3.0	-2.9	-1.9	-0.9	0.1	1.1	2.1	3.1	4.1	6.1	≥8.0	MISSING		
≤28.29	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.02
28.30-28.39	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.07
28.40-28.49	0.00	0.00	0.01	0.05	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.07
28.50-28.59	0.00	0.01	0.02	0.15	0.05	0.02	0.01	0.00	0.01	0.00	0.00	0.00	0.15	0.22
28.60-28.69	0.00	0.02	0.07	0.33	0.09	0.03	0.01	0.00	0.01	0.00	0.00	0.00	0.36	0.58
28.70-28.79	0.01	0.03	0.14	0.66	0.17	0.05	0.02	0.01	0.02	0.00	0.00	0.00	0.74	1.33
28.80-28.89	0.02	0.12	0.32	1.25	0.49	0.15	0.05	0.03	0.02	0.00	0.00	0.00	1.45	2.77
28.90-28.99	0.07	0.28	0.74	2.36	1.00	0.41	0.18	0.13	0.13	0.08	0.00	0.00	2.97	5.75
29.00-29.09	0.19	0.81	1.44	3.67	1.71	1.01	0.43	0.36	0.37	0.17	0.11	1.51	6.47	12.22
29.10-29.19	0.48	1.60	2.41	5.13	2.52	1.66	0.93	0.79	0.92	0.45	0.36	2.30	11.99	24.21
29.20-29.29	0.78	2.06	3.05	5.12	2.51	1.99	1.20	1.14	1.35	0.70	0.59	1.88	19.55	43.76
29.30-29.39	0.66	1.84	2.48	3.85	1.66	1.29	0.98	0.92	1.17	0.65	0.71	0.97	22.38	66.14
29.40-29.49	0.32	0.93	1.32	2.18	0.88	0.76	0.52	0.46	0.54	0.32	0.32	0.45	17.18	83.31
29.50-29.59	0.13	0.46	0.64	1.09	0.46	0.41	0.27	0.29	0.29	0.14	0.12	0.19	8.99	92.30
29.60-29.69	0.04	0.23	0.28	0.48	0.24	0.23	0.13	0.14	0.13	0.05	0.05	0.12	4.48	96.78
29.70-29.79	0.01	0.07	0.10	0.15	0.10	0.07	0.05	0.04	0.04	0.01	0.01	0.01	2.14	98.92
29.80-29.89	0.00	0.02	0.04	0.05	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.70	99.62
29.90-29.99	0.00	0.00	0.01	0.02	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.24	99.86
>29.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	99.91
MISSING	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.02	99.93
TOTAL CUMUL	2.70	8.47	13.10	26.79	11.97	8.11	4.81	4.34	5.00	2.59	2.32	9.82	100.00	
TOTAL	2.70	11.17	24.27	51.95	63.02	71.13	75.94	80.28	85.28	87.86	90.18	100.00		

TOTAL OBSERVATIONS = 118392

Table 405. Joint Percentage Frequency Distribution of 5-foot Dewpoint Temperature (°F) and Station Pressure in Inches of Mercury

Table with 14 columns: STATION PRESSURE, DEWPOINT TEMPERATURE (°F) (subdivided into 12 bins), TOTAL, and CUMUL TOTAL. Rows represent station pressure intervals from ≤28.29 to >29.99, plus a MISSING row. Includes a TOTAL CUMUL TOTAL row. Total observations = 11160.

Table with 14 columns: STATION PRESSURE, DEWPOINT TEMPERATURE (°F) (subdivided into 12 bins), TOTAL, and CUMUL TOTAL. Rows represent station pressure intervals from ≤28.29 to >29.99, plus a MISSING row. Includes a TOTAL CUMUL TOTAL row. Total observations = 10176.

Table with 14 columns: STATION PRESSURE, DEWPOINT TEMPERATURE (°F) (subdivided into 12 bins), TOTAL, and CUMUL TOTAL. Rows represent station pressure intervals from ≤28.29 to >29.99, plus a MISSING row. Includes a TOTAL CUMUL TOTAL row. Total observations = 11160.

Table 406. Joint Percentage Frequency Distribution of 5-foot Dewpoint Temperature (°F) and Station Pressure in Inches of Mercury

Table with columns: STATION PRESSURE, DEWPOINT TEMPERATURE (°F) (sub-columns: ≤-11, -10--1, 0-9, 10-19, 20-29, 30-39, 40-49, 50-59, 60-69, 70-79, ≥80, MISSING), TOTAL, CUMUL TOTAL. Includes a row for TOTAL OBSERVATIONS = 10800.

Table for MAY 1950-1964 with columns: STATION PRESSURE, DEWPOINT TEMPERATURE (°F) (sub-columns: ≤-11, -10--1, 0-9, 10-19, 20-29, 30-39, 40-49, 50-59, 60-69, 70-79, ≥80, MISSING), TOTAL, CUMUL TOTAL. Includes a row for TOTAL OBSERVATIONS = 11160.

Table for JUNE 1950-1964 with columns: STATION PRESSURE, DEWPOINT TEMPERATURE (°F) (sub-columns: ≤-11, -10--1, 0-9, 10-19, 20-29, 30-39, 40-49, 50-59, 60-69, 70-79, ≥80, MISSING), TOTAL, CUMUL TOTAL. Includes a row for TOTAL OBSERVATIONS = 10800.



Table 408. Joint Percentage Frequency Distribution of 5-foot Dewpoint Temperature (°F) and Station Pressure in Inches of Mercury

Table for October 1950-1964 showing joint percentage frequency distribution of station pressure (28.29-29.69 inches Hg) and dewpoint temperature (≤-11 to ≥80 °F). Includes total observations = 11160.

Table for November 1950-1964 showing joint percentage frequency distribution of station pressure (28.29-29.69 inches Hg) and dewpoint temperature (≤-11 to ≥80 °F). Includes total observations = 10800.

Table for December 1950-1964 showing joint percentage frequency distribution of station pressure (28.29-29.69 inches Hg) and dewpoint temperature (≤-11 to ≥80 °F). Includes total observations = 11160.