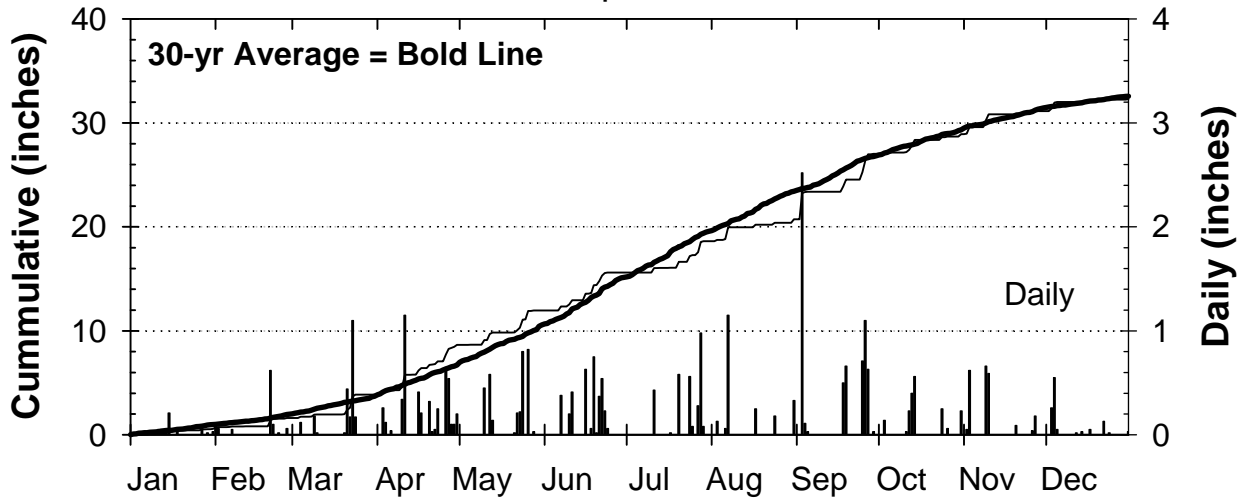
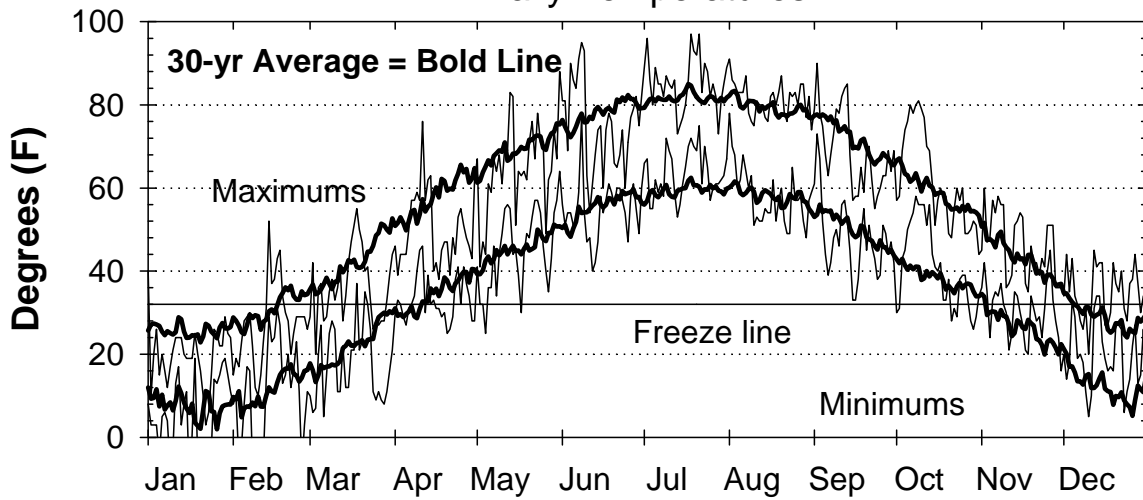


2011 Weather Summary for Hancock, WI

Precipitation



Daily Temperatures



Growing Degree Units (modified - base= 50, max = 86)

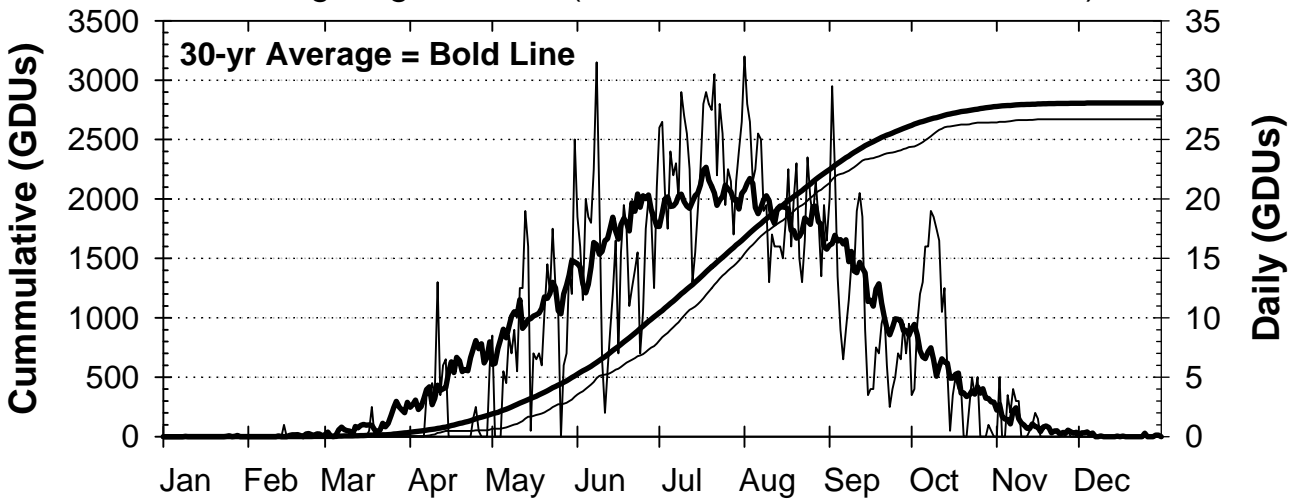


Table A-4. Daily Precipitation, Solar Radiation, Soil and Air Temperatures and Growing Degree Units at the Hancock Research Station during 2011.

Day of year		Precipitation		Daily Solar Radiation	Soil Temperature at 2 inches		Air Temperature		Growing Degree Units (86/50 F)	
		Daily	Total		Max	Min	Max	Min	Daily	Total
		inches		W m ⁻²	°F		°F			
91	1-Apr	0.00	3.9	72	32	32	30	46	0	4
92	2-Apr	0.01	3.9	170	32	32	33	39	0	4
93	3-Apr	0.26	4.1	33	33	32	32	44	0	4
94	4-Apr	0.12	4.3	134	37	32	29	44	0	4
95	5-Apr	0.00	4.3	268	45	32	27	44	0	4
96	6-Apr	0.04	4.3	255	52	37	31	50	0	4
97	7-Apr	0.00	4.3	194	51	37	32	57	4	8
98	8-Apr	0.00	4.3	239	54	39	34	57	4	11
99	9-Apr	0.00	4.3	95	51	45	40	59	5	16
100	10-Apr	0.34	4.6	140	58	47	45	57	4	19
101	11-Apr	1.15	5.8	155	55	45	46	76	13	32
102	12-Apr	0.00	5.8	285	60	40	30	57	4	36
103	13-Apr	0.00	5.8	198	57	44	39	62	6	42
104	14-Apr	0.01	5.8	58	50	41	32	63	7	48
105	15-Apr	0.00	5.8	123	45	39	33	40	0	48
106	16-Apr	0.41	6.2	84	39	36	31	42	0	48
107	17-Apr	0.21	6.4	302	48	35	31	38	0	48
108	18-Apr	0.00	6.4	242	54	37	29	45	0	48
109	19-Apr	0.00	6.4	47	43	38	30	47	0	48
110	20-Apr	0.32	6.7	173	38	36	25	47	0	48
111	21-Apr	0.03	6.8	222	38	35	26	39	0	48
112	22-Apr	0.05	6.8	27	40	37	29	48	0	48
113	23-Apr	0.25	7.1	111	48	39	38	44	0	48
114	24-Apr	0.01	7.1	214	56	40	41	53	2	50
115	25-Apr	0.00	7.1	288	60	40	32	55	3	52
116	26-Apr	0.65	7.7	54	50	46	41	51	1	53
117	27-Apr	0.54	8.3	124	51	43	37	48	0	53
118	28-Apr	0.10	8.4	71	46	41	34	46	0	53
119	29-Apr	0.10	8.5	314	61	37	28	43	0	53
120	30-Apr	0.20	8.7	82	53	45	28	62	6	59
121	1-May	0.00	8.7	209	52	43	41	67	9	67
122	2-May	0.00	8.7	100	46	39	32	41	0	67
123	3-May	0.00	8.7	131	48	40	32	47	0	67
124	4-May	0.00	8.7	330	61	37	25	44	0	67
125	5-May	0.01	8.7	105	52	44	36	61	6	73
126	6-May	0.00	8.7	284	60	42	36	59	5	77
127	7-May	0.00	8.7	257	64	49	46	67	9	86
128	8-May	0.00	8.7	249	64	47	34	64	7	93
129	9-May	0.00	8.7	94	55	51	44	68	9	102
130	10-May	0.45	9.1	179	64	50	49	61	6	107
131	11-May	0.00	9.1	199	67	54	55	70	13	120
132	12-May	0.58	9.7	216	72	57	56	69	13	132
133	13-May	0.14	9.8	48	61	55	55	83	19	151
134	14-May	0.00	9.8	52	55	51	44	82	16	167
135	15-May	0.00	9.8	256	61	48	45	51	1	168
136	16-May	0.00	9.8	358	68	45	39	64	7	175
137	17-May	0.00	9.8	361	71	48	30	63	7	181
138	18-May	0.00	9.8	114	61	53	44	64	7	188
139	19-May	0.00	9.8	182	68	56	49	62	6	194
140	20-May	0.00	9.8	293	73	55	48	71	11	205
141	21-May	0.02	9.9	57	64	59	53	76	15	219
142	22-May	0.21	10.1	208	72	58	57	67	12	231
143	23-May	0.22	10.3	163	68	59	57	78	18	249
144	24-May	0.80	11.1	206	70	59	54	71	13	261

Table A-4. Daily Precipitation, Solar Radiation, Soil and Air Temperatures and Growing Degree Units at the Hancock Research Station during 2011.

Day of year	Precipitation		Daily Solar Radiation W m ⁻²	Soil Temperature at 2 inches		Air Temperature		Growing Degree Units (86/50 F)	
	Daily	Total		Max	Min	Max	Min	Daily	Total
	inches			°F		°F			
145 25-May	0.01	11.1	59	60	53	46	71	11	272
146 26-May	0.82	11.9	336	68	49	40	49	0	272
147 27-May	0.00	11.9	290	70	50	35	62	6	278
148 28-May	0.03	12.0	275	73	56	43	64	7	285
149 29-May	0.00	12.0	108	66	59	54	74	14	299
150 30-May	0.01	12.0	325	80	59	57	67	12	311
151 31-May	0.00	12.0	265	79	67	64	88	25	336
152 1-Jun	0.00	12.0	361	79	62	56	81	19	354
153 2-Jun	0.00	12.0	257	76	63	51	81	16	370
154 3-Jun	0.00	12.0	285	79	64	54	69	12	382
155 4-Jun	0.00	12.0	276	81	69	54	90	20	402
156 5-Jun	0.00	12.0	352	84	65	51	86	19	420
157 6-Jun	0.00	12.0	288	86	67	52	84	18	438
158 7-Jun	0.38	12.3	329	89	70	59	91	23	461
159 8-Jun	0.00	12.3	305	90	73	77	95	32	492
160 9-Jun	0.00	12.3	185	80	69	54	93	20	512
161 10-Jun	0.20	12.5	46	69	60	47	63	7	519
162 11-Jun	0.41	13.0	110	65	59	48	54	2	521
163 12-Jun	0.00	13.0	283	74	55	40	61	6	526
164 13-Jun	0.00	13.0	343	79	57	42	68	9	535
165 14-Jun	0.00	13.0	347	81	60	47	74	12	547
166 15-Jun	0.00	13.0	46	69	62	58	75	17	564
167 16-Jun	0.63	13.6	240	75	61	54	60	7	571
168 17-Jun	0.00	13.6	306	82	65	57	74	16	586
169 18-Jun	0.06	13.6	216	79	68	61	78	20	606
170 19-Jun	0.75	14.4	95	71	66	59	76	18	623
171 20-Jun	0.02	14.4	91	70	65	56	66	11	634
172 21-Jun	0.37	14.8	98	71	65	60	65	13	647
173 22-Jun	0.54	15.3	184	75	65	60	68	14	661
174 23-Jun	0.23	15.6	69	68	63	57	74	16	676
175 24-Jun	0.06	15.6	192	71	61	54	60	7	683
176 25-Jun	0.00	15.6	301	79	59	47	71	11	694
177 26-Jun	0.00	15.6	344	85	66	58	77	18	711
178 27-Jun	0.00	15.6	184	79	68	61	79	20	731
179 28-Jun	0.00	15.6	329	83	66	55	82	19	750
180 29-Jun	0.00	15.6	349	85	66	49	75	13	762
181 30-Jun	0.00	15.6	273	85	70	60	82	21	783
182 1-Jul	0.00	15.6	308	90	75	66	89	26	809
183 2-Jul	0.00	15.6	334	90	75	67	96	27	836
184 3-Jul	0.00	15.6	316	87	72	55	86	21	856
185 4-Jul	0.00	15.6	352	91	71	55	80	18	874
186 5-Jul	0.00	15.6	229	85	74	62	89	24	898
187 6-Jul	0.00	15.6	318	89	72	59	85	22	920
188 7-Jul	0.00	15.6	228	85	73	61	85	23	943
189 8-Jul	0.00	15.6	317	90	72	58	82	20	963
190 9-Jul	0.00	15.6	210	85	75	72	87	29	992
191 10-Jul	0.00	15.6	155	84	75	69	85	27	1019
192 11-Jul	0.43	16.0	290	90	72	67	84	26	1044
193 12-Jul	0.00	16.0	155	78	69	59	86	23	1067
194 13-Jul	0.01	16.1	298	85	64	53	73	13	1080
195 14-Jul	0.00	16.1	185	81	68	56	75	16	1095
196 15-Jul	0.00	16.1	166	82	71	61	77	19	1114
197 16-Jul	0.00	16.1	192	84	72	65	80	23	1137
198 17-Jul	0.02	16.1	307	92	74	70	86	28	1165

Table A-4. Daily Precipitation, Solar Radiation, Soil and Air Temperatures and Growing Degree Units at the Hancock Research Station during 2011.

Day of year	Precipitation		Daily Solar Radiation	Soil Temperature at 2 inches		Air Temperature		Growing Degree Units (86/50 F)		
	Daily	Total		Max	Min	Max	Min	Daily	Total	
	inches		W m ⁻²	°F		°F				
199	18-Jul	0.00	16.1	199	88	78	72	97	29	1194
200	19-Jul	0.00	16.1	237	89	77	70	93	28	1222
201	20-Jul	0.58	16.7	327	90	75	69	92	28	1249
202	21-Jul	0.00	16.7	260	86	77	75	97	31	1280
203	22-Jul	0.00	16.7	284	91	74	61	83	22	1302
204	23-Jul	0.00	16.7	237	90	79	70	90	28	1330
205	24-Jul	0.56	17.2	167	83	74	65	88	26	1355
206	25-Jul	0.08	17.3	335	86	70	57	82	20	1375
207	26-Jul	0.00	17.3	338	88	71	60	85	23	1397
208	27-Jul	0.28	17.6	76	77	71	61	82	22	1419
209	28-Jul	0.98	18.6	127	81	73	61	73	17	1436
210	29-Jul	0.08	18.6	319	86	71	62	81	22	1457
211	30-Jul	0.00	18.6	294	88	72	63	85	24	1481
212	31-Jul	0.00	18.6	291	89	75	67	89	27	1508
213	1-Aug	0.00	18.6	152	84	77	78	91	32	1540
214	2-Aug	0.00	18.6	142	82	77	70	86	28	1568
215	3-Aug	0.13	18.8	319	86	74	68	85	27	1594
216	4-Aug	0.00	18.8	264	83	74	60	83	22	1616
217	5-Aug	0.00	18.8	238	82	73	62	83	23	1638
218	6-Aug	0.06	18.8	254	83	75	68	83	26	1664
219	7-Aug	1.15	20.0	225	79	72	64	87	25	1689
220	8-Aug	0.00	20.0	162	77	71	60	78	19	1708
221	9-Aug	0.00	20.0	251	77	70	63	76	20	1727
222	10-Aug	0.00	20.0	320	79	67	51	75	13	1740
223	11-Aug	0.00	20.0	245	79	68	53	81	17	1757
224	12-Aug	0.00	20.0	88	74	69	52	80	16	1773
225	13-Aug	0.00	20.0	176	78	69	52	80	16	1789
226	14-Aug	0.00	20.0	312	82	65	55	77	16	1805
227	15-Aug	0.00	20.0	274	83	67	54	76	15	1820
228	16-Aug	0.00	20.0	293	85	70	54	82	18	1838
229	17-Aug	0.25	20.2	250	82	71	62	83	23	1861
230	18-Aug	0.00	20.2	299	85	66	52	80	16	1877
231	19-Aug	0.00	20.2	288	86	69	57	83	20	1897
232	20-Aug	0.00	20.2	251	84	72	60	87	23	1920
233	21-Aug	0.00	20.2	280	81	70	52	78	15	1935
234	22-Aug	0.00	20.2	289	84	69	49	76	13	1948
235	23-Aug	0.00	20.2	145	80	71	49	83	17	1964
236	24-Aug	0.18	20.4	277	84	71	65	82	24	1988
237	25-Aug	0.00	20.4	291	84	69	57	83	20	2008
238	26-Aug	0.00	20.4	253	83	70	57	80	19	2026
239	27-Aug	0.00	20.4	276	83	70	58	85	22	2048
240	28-Aug	0.00	20.4	265	82	69	52	85	19	2066
241	29-Aug	0.00	20.4	251	81	68	48	77	14	2080
242	30-Aug	0.00	20.4	90	74	69	57	82	20	2099
243	31-Aug	0.33	20.7	175	78	67	59	74	17	2116
244	1-Sep	0.00	20.7	253	84	68	61	79	20	2136
245	2-Sep	0.00	20.7	58	76	68	73	90	30	2165
246	3-Sep	2.52	23.3	84	75	69	67	78	23	2188
247	4-Sep	0.11	23.4	174	72	63	52	75	14	2201
248	5-Sep	0.03	23.4	197	71	59	44	68	9	2210
249	6-Sep	0.00	23.4	274	74	56	39	63	7	2217
250	7-Sep	0.00	23.4	267	75	58	42	68	9	2226
251	8-Sep	0.00	23.4	252	77	61	48	73	12	2237
252	9-Sep	0.00	23.4	260	78	63	50	79	15	2252

Table A-4. Daily Precipitation, Solar Radiation, Soil and Air Temperatures and Growing Degree Units at the Hancock Research Station during 2011.

Day of year	Precipitation		Daily Solar Radiation	Soil Temperature at 2 inches		Air Temperature		Growing Degree Units (86/50 F)	
	Daily	Total		Max	Min	Max	Min	Daily	Total
	inches		W m ⁻²	°F		°F			
253 10-Sep	0.00	23.4	252	78	63	46	78	14	2266
254 11-Sep	0.00	23.4	226	77	65	56	82	19	2285
255 12-Sep	0.00	23.4	239	77	66	57	84	21	2305
256 13-Sep	0.00	23.4	237	75	66	52	85	19	2324
257 14-Sep	0.00	23.4	231	71	63	45	68	9	2333
258 15-Sep	0.00	23.4	249	70	58	33	57	4	2336
259 16-Sep	0.00	23.4	113	65	58	33	58	4	2340
260 17-Sep	0.00	23.4	142	66	57	38	58	4	2344
261 18-Sep	0.50	23.9	44	63	61	48	65	8	2352
262 19-Sep	0.66	24.6	178	69	60	55	59	7	2359
263 20-Sep	0.00	24.6	90	64	56	45	69	10	2368
264 21-Sep	0.00	24.6	80	62	58	51	70	11	2379
265 22-Sep	0.00	24.6	144	63	57	46	62	6	2385
266 23-Sep	0.00	24.6	131	64	55	43	55	3	2387
267 24-Sep	0.00	24.6	150	62	51	38	58	4	2391
268 25-Sep	0.71	25.3	58	60	54	39	60	5	2396
269 26-Sep	1.10	26.4	59	62	56	51	63	7	2403
270 27-Sep	0.63	27.0	131	64	55	49	63	7	2410
271 28-Sep	0.00	27.0	194	68	54	44	69	10	2419
272 29-Sep	0.03	27.0	72	61	54	47	64	7	2426
273 30-Sep	0.00	27.0	187	61	50	42	69	10	2436
274 1-Oct	0.00	27.0	216	62	46	30	57	4	2439
275 2-Oct	0.00	27.0	209	63	46	31	58	4	2443
276 3-Oct	0.14	27.2	199	66	50	43	69	10	2453
277 4-Oct	0.00	27.2	196	68	53	45	74	12	2465
278 5-Oct	0.00	27.2	199	69	54	50	76	13	2478
279 6-Oct	0.00	27.2	192	69	56	52	80	16	2494
280 7-Oct	0.00	27.2	176	69	58	54	78	16	2510
281 8-Oct	0.00	27.2	185	70	60	58	80	19	2529
282 9-Oct	0.00	27.2	187	70	59	56	81	19	2547
283 10-Oct	0.00	27.2	166	69	59	56	79	18	2565
284 11-Oct	0.03	27.2	64	66	60	56	77	17	2581
285 12-Oct	0.23	27.4	87	65	56	51	70	11	2592
286 13-Oct	0.40	27.8	36	61	56	56	69	13	2604
287 14-Oct	0.56	28.4	65	56	51	44	61	6	2610
288 15-Oct	0.00	28.4	157	57	48	41	51	1	2610
289 16-Oct	0.00	28.4	149	57	50	40	57	4	2614
290 17-Oct	0.00	28.4	175	57	47	42	60	5	2619
291 18-Oct	0.00	28.4	114	55	46	33	58	4	2623
292 19-Oct	0.00	28.4	70	51	47	33	58	4	2627
293 20-Oct	0.00	28.4	64	51	46	38	49	0	2627
294 21-Oct	0.00	28.4	167	54	42	28	48	0	2627
295 22-Oct	0.00	28.4	159	56	43	31	55	3	2629
296 23-Oct	0.00	28.4	64	51	43	29	60	5	2634
297 24-Oct	0.25	28.6	153	54	42	38	57	4	2638
298 25-Oct	0.00	28.6	34	51	47	39	60	5	2643
299 26-Oct	0.06	28.7	81	51	44	39	49	0	2643
300 27-Oct	0.00	28.7	108	51	42	33	49	0	2643
301 28-Oct	0.00	28.7	103	49	39	28	50	0	2643
302 29-Oct	0.00	28.7	145	49	38	26	52	1	2644
303 30-Oct	0.00	28.7	26	44	40	29	51	1	2644
304 31-Oct	0.23	28.9	30	46	42	34	44	0	2644

Table A-5. Monthly and total precipitation (inches) data for the Hancock Research Station.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Annual
1982	1.0	0.1	1.9	3.5	3.3	4.1	5.4	3.6	1.9	1.5	5.4	2.1	33.9
1983	0.7	1.4	2.2	1.0	5.5	1.4	3.2	7.5	5.5	2.5	2.4	1.0	34.3
1984	0.4	1.2	1.4	3.5	2.6	4.7	3.2	4.4	5.4	4.9	3.1	1.5	36.2
1985	0.5	1.5	2.2	1.8	2.3	3.4	4.4	0.1	4.9	1.9	3.8	0.9	27.8
1986	0.3	1.3	2.2	2.2	1.8	4.3	5.1	2.3	10.8	2.0	1.2	0.3	33.7
1987	0.6	0.3	1.5	2.8	2.9	6.7	2.3	1.4	3.1	1.8	3.4	1.2	28.1
1988	1.4	0.3	1.4	1.9	1.0	1.2	5.5	4.0	4.8	1.9	3.3	0.7	27.3
1989	0.3	0.4	1.8	0.5	7.3	2.1	3.0	1.7	1.5	4.3	1.4	0.3	24.6
1990	1.0	0.6	2.9	2.0	4.8	8.1	3.9	6.4	2.9	2.7	1.0	2.1	38.6
1991	0.7	0.4	2.8	4.6	6.5	1.3	3.9	1.8	3.3	3.6	4.4	1.5	34.6
1992	0.7	0.6	2.4	2.8	2.5	1.7	4.2	3.2	7.9	1.4	4.4	2.2	34.0
1993	1.1	0.6	0.9	5.0	5.7	6.9	9.0	5.3	2.7	2.0	2.0	0.3	41.5
1994	1.4	1.1	0.8	5.1	1.5	3.7	6.8	3.8	2.8	0.9	1.6	0.3	29.9
1995	0.7	0.3	2.7	2.8	3.1	2.0	2.3	7.8	2.5	4.7	1.9	0.5	31.2
1996	2.6	1.1	1.2	3.7	1.7	6.9	4.6	2.1	1.2	2.8	1.1	1.3	30.3
1997	1.1	0.9	2.0	0.9	4.5	3.5	8.0	3.2	3.4	1.5	0.4	0.6	29.9
1998	1.7	1.3	4.5	1.6	3.0	6.4	2.5	5.1	2.3	1.8	1.9	0.4	32.5
1999	2.1	1.7	0.3	5.9	3.3	3.7	10.7	4.5	1.3	2.4	1.4	0.6	37.8
2000	1.2	0.9	1.1	3.8	5.1	6.9	2.3	4.6	3.5	0.6	2.6	1.5	34.1
2001	1.3	1.4	0.8	3.6	7.2	4.1	2.7	4.6	4.6	2.1	2.0	0.8	35.1
2002	0.4	2.2	2.2	4.1	2.9	16.5	3.2	4.3	3.0	3.3	0.2	0.4	42.7
2003	0.7	0.6	2.0	1.5	5.3	3.4	2.3	0.7	2.9	1.1	3.6	1.5	25.5
2004	0.9	1.1	3.0	1.5	7.2	7.7	2.7	3.6	0.5	3.3	1.9	1.2	34.5
2005	1.4	1.5	1.1	1.4	3.0	3.9	5.8	3.5	4.0	1.6	3.2	0.6	31.0
2006	1.1	0.7	0.8	5.0	5.8	1.5	2.7	2.9	3.8	2.0	1.7	1.6	29.7
2007	1.1	0.9	2.4	2.4	3.8	1.8	2.7	8.9	2.9	4.6	0.1	0.9	32.3
2008	1.6	1.9	0.5	5.5	2.9	6.5	4.5	2.4	2.1	1.8	1.6	2.4	33.7
2009	0.5	1.1	1.9	3.7	4.6	2.7	2.2	3.4	0.6	5.0	1.3	2.4	29.4
2010	0.8	0.5	0.6	2.6	3.6	7.2	10.6	5.4	4.4	1.3	1.4	0.9	39.4
2011	0.6	1.0	2.2	4.8	3.3	3.7	3.0	2.1	6.3	1.9	2.2	1.1	32.3
30-year Average	1.0	1.0	1.8	3.1	3.9	4.6	4.4	3.8	3.6	2.4	2.2	1.1	32.9

Table A-6. Average monthly and annual temperature (°F) data for the Hancock Research Station.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Annual
1982	6	18	29	42	62	61	71	67	60	50	35	28	44
1983	22	27	33	42	52	68	75	73	62	50	37	9	46
1984	14	30	25	47	55	68	69	71	59	52	35	23	46
1985	13	18	36	51	62	64	70	66	61	49	30	10	44
1986	17	18	35	51	60	67	73	65	61	50	30	24	46
1987	21	29	37	51	62	70	74	68	61	43	38	26	48
1988	12	14	32	46	63	72	74	74	63	44	37	20	46
1989	25	14	27	44	56	66	73	69	60	51	31	11	44
1990	28	24	36	49	55	68	70	69	64	49	40	19	48
1991	13	25	34	49	63	70	70	70	58	49	29	23	46
1992	22	28	31	42	59	64	65	65	59	47	31	21	45
1993	17	18	30	41	58	64	69	70	55	48	32	23	44
1994	6	14	34	47	59	69	68	66	63	52	38	27	45
1995	19	20	34	41	57	71	72	74	59	50	26	18	45
1996	12	19	25	42	54	67	67	69	61	49	26	20	43
1997	14	23	31	43	50	67	68	64	61	49	31	26	44
1998	20	31	31	48	63	64	70	69	66	49	38	26	48
1999	12	27	33	47	59	66	73	66	59	47	41	22	46
2000	15	27	38	43	59	64	68	69	60	53	31	6	44
2001	19	16	29	50	57	66	71	70	58	46	45	28	46
2002	26	25	26	45	52	68	73	69	63	43	32	25	46
2003	14	14	30	43	55	65	70	72	62	48	34	26	45
2004	11	21	35	46	55	64	69	64	65	50	39	23	45
2005	15	26	28	50	54	71	72	70	65	50	36	19	46
2006	30	20	33	51	58	67	74	70	58	45	39	29	48
2007	23	13	36	44	61	69	71	70	62	54	34	18	47
2008	17	15	26	45	54	66	70	68	62	48	35	14	43
2009	7	22	31	43	57	65	64	66	62	43	41	20	44
2010	15	20	37	51	59	67	72	72	58	50	36	16	46
2011	12	18	27	42	55	65	74	70	58	51	38	27	45
30-year Average	16	21	32	46	57	67	71	69	61	49	35	21	45