

2013 Weather Summary for Hancock, WI

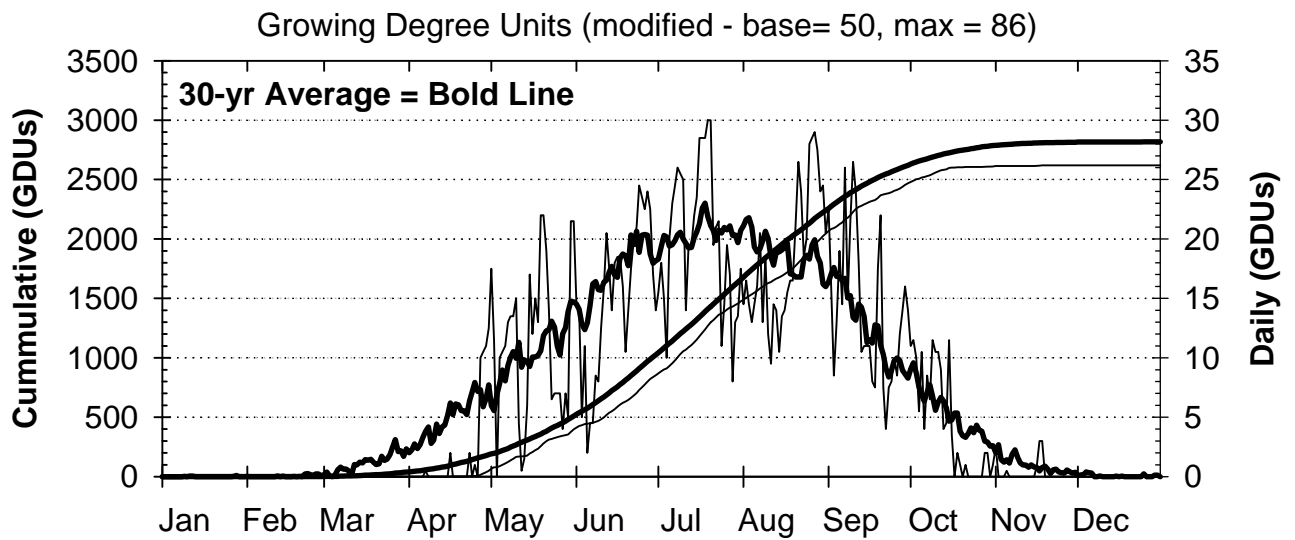
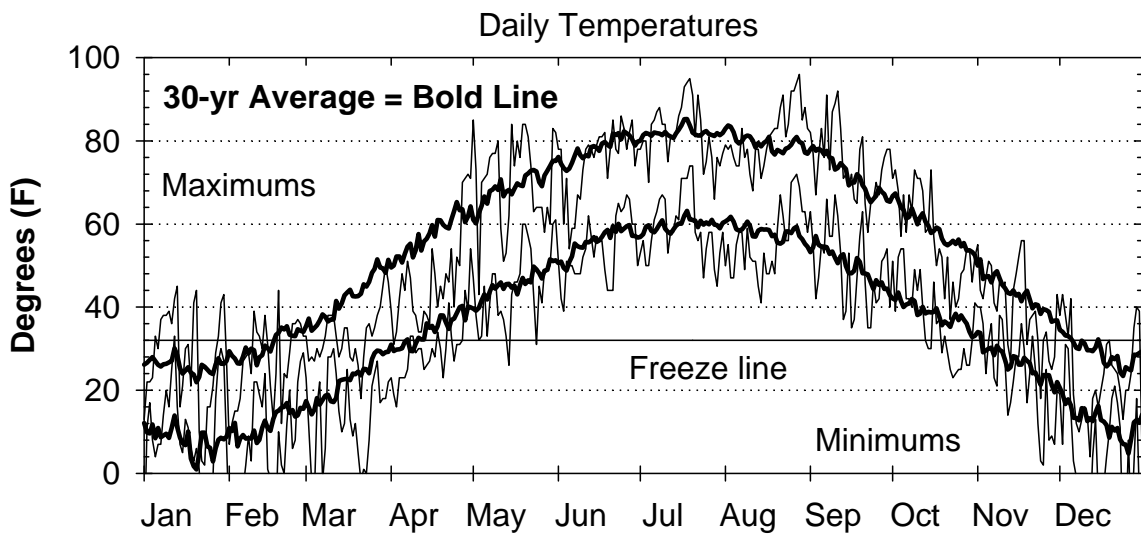
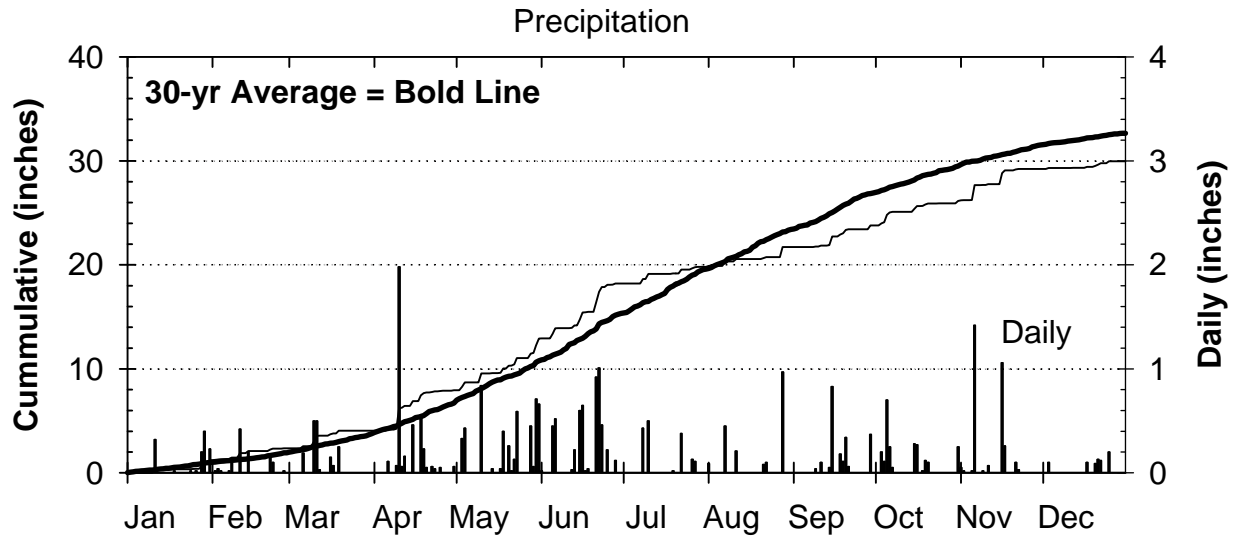


Table A-4. Daily Precipitation, Solar Radiation, Soil and Air Temperatures and Growing Degree Units at the Hancock Research Station.

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	4.1	273	32	32	39	23	0	0
92	2-Apr	0.00	4.1	281	32	31	31	19	0	0
93	3-Apr	0.00	4.1	285	32	31	34	16	0	0
94	4-Apr	0.00	4.1	226	32	32	42	23	0	0
95	5-Apr	0.00	4.1	246	33	32	48	23	0	0
96	6-Apr	0.11	4.2	93	34	32	44	23	0	0
97	7-Apr	0.00	4.2	118	37	32	51	25	1	1
98	8-Apr	0.00	4.2	45	35	32	47	33	0	1
99	9-Apr	0.07	4.2	27	35	32	39	33	0	1
100	10-Apr	1.98	6.2	60	33	32	38	29	0	1
101	11-Apr	0.06	6.3	49	34	32	34	30	0	1
102	12-Apr	0.16	6.4	108	38	32	34	30	0	1
103	13-Apr	0.00	6.4	121	37	32	39	25	0	1
104	14-Apr	0.00	6.4	70	33	32	38	26	0	1
105	15-Apr	0.46	6.9	244	46	33	36	27	0	1
106	16-Apr	0.00	6.9	211	47	35	54	30	2	3
107	17-Apr	0.00	6.9	58	39	35	48	28	0	3
108	18-Apr	0.56	7.5	58	41	37	40	34	0	3
109	19-Apr	0.23	7.7	160	40	35	45	30	0	3
110	20-Apr	0.05	7.7	321	47	33	42	23	0	3
111	21-Apr	0.00	7.7	108	41	35	48	30	0	3
112	22-Apr	0.06	7.8	97	47	39	46	41	0	3
113	23-Apr	0.04	7.8	76	44	38	54	33	2	5
114	24-Apr	0.00	7.8	302	52	35	40	27	0	5
115	25-Apr	0.05	7.9	223	51	39	52	31	1	6
116	26-Apr	0.01	7.9	235	56	40	50	31	0	6
117	27-Apr	0.00	7.9	299	62	45	70	32	10	16
118	28-Apr	0.00	7.9	286	64	46	71	44	11	26
119	29-Apr	0.00	7.9	182	63	52	72	39	11	37
120	30-Apr	0.06	8.0	280	68	54	71	54	13	50
121	1-May	0.00	8.0	301	68	55	85	47	18	67
122	2-May	0.00	8.0	64	58	47	73	38	12	79
123	3-May	0.33	8.3	56	47	44	43	32	0	79
124	4-May	0.43	8.7	227	61	45	70	33	10	89
125	5-May	0.00	8.7	306	67	50	71	45	11	99
126	6-May	0.00	8.7	282	67	51	72	33	11	110
127	7-May	0.00	8.7	332	70	52	76	41	13	123
128	8-May	0.00	8.7	245	68	54	77	48	14	137
129	9-May	0.00	8.7	58	60	54	77	48	14	150
130	10-May	0.84	9.6	157	58	50	80	38	15	165
131	11-May	0.00	9.6	213	56	49	59	39	5	170
132	12-May	0.00	9.6	334	59	44	51	37	1	170
133	13-May	0.00	9.6	294	63	44	53	33	2	172
134	14-May	0.04	9.6	283	68	51	62	26	6	178
135	15-May	0.00	9.6	279	67	57	84	43	17	195
136	16-May	0.00	9.6	274	71	55	74	46	12	207
137	17-May	0.04	9.6	79	62	57	80	46	15	222
138	18-May	0.40	10.0	203	68	55	76	48	13	235
139	19-May	0.00	10.0	241	73	59	84	60	22	257
140	20-May	0.26	10.3	302	77	63	84	60	22	279
141	21-May	0.02	10.3	194	71	64	81	57	19	298
142	22-May	0.13	10.4	66	65	60	74	54	14	312
143	23-May	0.59	11.0	330	69	56	63	43	7	318
144	24-May	0.00	11.0	356	71	53	64	31	7	325

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

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			
145 25-May	0.00	11.0	235	68	58	64	45	7	332
146 26-May	0.00	11.0	227	66	55	64	41	7	339
147 27-May	0.00	11.0	59	61	57	58	49	4	343
148 28-May	0.45	11.5	74	61	56	64	49	7	350
149 29-May	0.06	11.5	263	75	58	60	50	5	355
150 30-May	0.71	12.3	227	73	64	83	60	22	377
151 31-May	0.66	12.9	279	76	64	82	61	22	398
152 1-Jun	0.02	12.9	244	74	63	78	51	15	413
153 2-Jun	0.00	12.9	285	71	61	78	42	14	427
154 3-Jun	0.00	12.9	320	72	58	60	39	5	432
155 4-Jun	0.00	12.9	46	65	59	71	51	11	443
156 5-Jun	0.45	13.4	98	63	58	54	50	2	445
157 6-Jun	0.52	13.9	63	60	57	59	50	5	449
158 7-Jun	0.01	13.9	177	66	56	59	48	5	454
159 8-Jun	0.01	13.9	132	65	58	67	48	9	462
160 9-Jun	0.00	13.9	158	68	58	66	48	8	470
161 10-Jun	0.00	13.9	234	71	61	73	52	13	483
162 11-Jun	0.00	13.9	220	72	62	78	54	16	499
163 12-Jun	0.03	14.0	142	72	65	79	62	21	519
164 13-Jun	0.22	14.2	329	75	63	78	57	18	537
165 14-Jun	0.00	14.2	336	77	63	76	52	14	551
166 15-Jun	0.60	14.8	190	75	65	79	57	18	569
167 16-Jun	0.65	15.4	349	79	65	81	56	19	587
168 17-Jun	0.02	15.4	297	79	67	81	56	19	606
169 18-Jun	0.04	15.5	346	78	65	82	49	16	622
170 19-Jun	0.00	15.5	348	77	64	71	44	11	632
171 20-Jun	0.00	15.5	332	80	67	78	44	14	646
172 21-Jun	0.92	16.4	130	74	68	85	44	18	664
173 22-Jun	1.01	17.4	134	75	69	78	62	20	684
174 23-Jun	0.46	17.9	297	82	69	77	65	21	705
175 24-Jun	0.00	17.9	198	80	72	86	63	25	729
176 25-Jun	0.22	18.1	195	80	70	83	64	24	753
177 26-Jun	0.00	18.1	236	84	72	78	67	23	775
178 27-Jun	0.01	18.1	253	84	73	82	66	24	799
179 28-Jun	0.12	18.2	218	79	69	85	60	23	822
180 29-Jun	0.00	18.2	116	73	66	74	60	17	839
181 30-Jun	0.00	18.2	350	84	62	78	50	14	853
182 1-Jul	0.00	18.2	339	86	65	78	53	16	868
183 2-Jul	0.00	18.2	339	85	68	80	56	18	886
184 3-Jul	0.00	18.2	124	76	69	80	50	15	901
185 4-Jul	0.00	18.2	314	86	67	70	50	10	911
186 5-Jul	0.00	18.2	325	87	70	84	56	20	931
187 6-Jul	0.00	18.2	325	89	72	85	61	23	954
188 7-Jul	0.00	18.2	230	87	74	87	63	25	979
189 8-Jul	0.43	18.7	252	89	75	88	66	26	1005
190 9-Jul	0.00	18.7	189	83	74	84	67	26	1030
191 10-Jul	0.50	19.2	312	85	71	84	66	25	1055
192 11-Jul	0.00	19.2	336	89	67	75	53	14	1069
193 12-Jul	0.00	19.2	341	89	70	81	58	20	1089
194 13-Jul	0.00	19.2	278	88	72	81	58	20	1108
195 14-Jul	0.00	19.2	328	90	72	82	62	22	1130
196 15-Jul	0.00	19.2	247	87	75	86	61	24	1154
197 16-Jul	0.00	19.2	306	91	77	88	71	29	1182
198 17-Jul	0.00	19.2	298	92	79	93	71	29	1211

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

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				
199	18-Jul	0.00	19.2	308	93	79	94	71	29	1239
200	19-Jul	0.02	19.2	287	91	80	95	74	30	1269
201	20-Jul	0.00	19.2	260	88	75	91	74	30	1299
202	21-Jul	0.00	19.2	112	80	70	81	58	20	1319
203	22-Jul	0.38	19.6	285	89	68	91	56	21	1340
204	23-Jul	0.00	19.6	305	85	71	85	58	22	1361
205	24-Jul	0.00	19.6	287	84	67	72	47	11	1372
206	25-Jul	0.00	19.6	233	84	69	75	54	15	1387
207	26-Jul	0.13	19.7	208	80	68	81	58	20	1406
208	27-Jul	0.11	19.8	137	70	63	76	58	17	1423
209	28-Jul	0.01	19.8	173	72	61	66	49	8	1431
210	29-Jul	0.00	19.8	269	80	60	76	45	13	1444
211	30-Jul	0.00	19.8	178	79	65	74	53	14	1458
212	31-Jul	0.00	19.8	185	80	68	77	58	18	1475
213	1-Aug	0.09	19.9	306	82	63	79	50	15	1490
214	2-Aug	0.00	19.9	278	82	67	78	55	17	1506
215	3-Aug	0.00	19.9	284	80	65	79	47	15	1521
216	4-Aug	0.00	19.9	263	80	65	76	47	13	1534
217	5-Aug	0.00	19.9	130	75	68	74	55	15	1548
218	6-Aug	0.01	19.9	213	81	69	74	58	16	1564
219	7-Aug	0.45	20.3	193	79	67	83	58	21	1585
220	8-Aug	0.00	20.3	296	83	63	76	49	13	1598
221	9-Aug	0.00	20.3	282	84	70	78	59	19	1616
222	10-Aug	0.00	20.3	188	78	69	72	52	12	1628
223	11-Aug	0.21	20.6	60	71	65	68	51	10	1638
224	12-Aug	0.00	20.6	248	81	63	78	51	15	1652
225	13-Aug	0.01	20.6	246	77	62	78	45	14	1666
226	14-Aug	0.00	20.6	298	80	60	71	41	11	1677
227	15-Aug	0.00	20.6	236	79	66	74	53	14	1690
228	16-Aug	0.00	20.6	280	81	64	78	48	14	1704
229	17-Aug	0.00	20.6	286	84	66	81	48	16	1720
230	18-Aug	0.00	20.6	293	84	67	82	51	17	1736
231	19-Aug	0.00	20.6	250	82	69	83	48	17	1753
232	20-Aug	0.00	20.6	238	84	70	83	59	21	1774
233	21-Aug	0.08	20.6	226	86	72	88	67	27	1800
234	22-Aug	0.10	20.7	189	82	70	91	62	24	1824
235	23-Aug	0.00	20.7	291	86	67	81	56	19	1843
236	24-Aug	0.00	20.7	257	85	69	84	56	20	1863
237	25-Aug	0.00	20.7	250	88	74	92	70	28	1891
238	26-Aug	0.00	20.7	199	87	75	92	71	29	1919
239	27-Aug	0.00	20.7	246	92	77	94	72	29	1948
240	28-Aug	0.97	21.7	182	87	77	96	69	28	1976
241	29-Aug	0.00	21.7	263	89	72	85	63	24	2000
242	30-Aug	0.00	21.7	207	87	76	88	63	25	2024
243	31-Aug	0.00	21.7	250	87	73	83	58	21	2045
244	1-Sep	0.00	21.7	209	85	74	82	63	23	2067
245	2-Sep	0.00	21.7	180	79	70	77	55	16	2083
246	3-Sep	0.00	21.7	256	79	65	67	42	9	2092
247	4-Sep	0.00	21.7	224	80	66	76	47	13	2105
248	5-Sep	0.00	21.7	257	82	69	83	55	19	2124
249	6-Sep	0.00	21.7	235	82	68	76	53	15	2138
250	7-Sep	0.00	21.7	196	84	72	91	66	26	2164
251	8-Sep	0.00	21.7	159	79	72	73	57	15	2179
252	9-Sep	0.04	21.8	208	83	71	87	57	22	2201

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

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	21.8	227	86	73	89	67	27	2227
254 11-Sep	0.10	21.9	191	82	72	92	62	24	2251
255 12-Sep	0.00	21.9	225	79	68	83	53	18	2269
256 13-Sep	0.00	21.9	253	77	62	71	37	11	2280
257 14-Sep	0.05	21.9	231	76	60	72	39	11	2291
258 15-Sep	0.83	22.7	94	69	63	69	53	11	2302
259 16-Sep	0.00	22.7	249	72	56	72	35	11	2313
260 17-Sep	0.00	22.7	166	69	56	66	37	8	2321
261 18-Sep	0.18	22.9	155	74	62	65	47	8	2328
262 19-Sep	0.11	23.0	140	77	66	78	57	18	2346
263 20-Sep	0.34	23.4	78	70	63	81	63	22	2368
264 21-Sep	0.06	23.4	138	66	58	65	46	8	2375
265 22-Sep	0.00	23.4	233	69	53	58	35	4	2379
266 23-Sep	0.00	23.4	221	70	55	65	35	8	2387
267 24-Sep	0.00	23.4	219	71	56	66	46	8	2395
268 25-Sep	0.00	23.4	206	70	56	70	41	10	2405
269 26-Sep	0.00	23.4	195	71	56	67	42	9	2413
270 27-Sep	0.00	23.4	204	72	59	73	51	12	2425
271 28-Sep	0.00	23.4	132	70	61	76	52	14	2439
272 29-Sep	0.37	23.8	212	69	55	78	54	16	2455
273 30-Sep	0.00	23.8	188	68	56	78	40	14	2469
274 1-Oct	0.00	23.8	197	71	59	71	51	11	2480
275 2-Oct	0.00	23.8	198	69	55	73	39	12	2492
276 3-Oct	0.20	24.0	92	66	60	68	52	10	2502
277 4-Oct	0.11	24.1	32	62	60	57	54	6	2507
278 5-Oct	0.70	24.8	43	66	60	67	54	11	2518
279 6-Oct	0.25	25.1	150	64	56	58	42	4	2522
280 7-Oct	0.05	25.1	184	64	54	67	42	9	2530
281 8-Oct	0.00	25.1	186	65	51	63	40	7	2537
282 9-Oct	0.00	25.1	180	66	54	73	49	12	2548
283 10-Oct	0.00	25.1	168	65	54	71	44	11	2559
284 11-Oct	0.00	25.1	144	66	56	71	49	11	2569
285 12-Oct	0.00	25.1	133	66	57	68	40	9	2578
286 13-Oct	0.00	25.1	183	62	53	58	32	4	2582
287 14-Oct	0.00	25.1	139	59	49	59	30	5	2587
288 15-Oct	0.28	25.4	23	57	53	73	30	12	2598
289 16-Oct	0.27	25.7	32	55	51	57	46	4	2602
290 17-Oct	0.00	25.7	124	58	48	50	36	0	2602
291 18-Oct	0.02	25.7	43	52	48	54	37	2	2604
292 19-Oct	0.12	25.8	110	51	44	52	29	1	2605
293 20-Oct	0.10	25.9	46	49	45	42	33	0	2605
294 21-Oct	0.00	25.9	54	48	42	52	29	1	2606
295 22-Oct	0.00	25.9	124	47	40	37	25	0	2606
296 23-Oct	0.00	25.9	97	44	38	46	23	0	2606
297 24-Oct	0.01	25.9	90	46	40	40	24	0	2606
298 25-Oct	0.00	25.9	94	46	39	42	25	0	2606
299 26-Oct	0.00	25.9	103	48	43	48	25	0	2606
300 27-Oct	0.00	25.9	143	48	40	49	30	0	2606
301 28-Oct	0.00	25.9	97	46	40	54	26	2	2608
302 29-Oct	0.00	25.9	60	45	40	54	26	2	2610
303 30-Oct	0.00	25.9	35	48	44	46	32	0	2610
304 31-Oct	0.25	26.2	18	51	48	52	41	1	2611

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
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
2012	0.6	0.3	2.8	3.4	6.0	1.9	0.6	2.9	1.1	5.5	1.4	1.9	28.4
2013	1.2	1.1	1.7	3.9	5.0	5.3	1.6	1.9	2.1	2.4	3.1	0.8	30.0
30-year Average	1.0	1.0	1.8	3.1	4.0	4.6	4.2	3.6	3.4	2.6	2.1	1.1	32.5

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
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
2012	22	28	48	46	62	69	77	69	59	46	36	25	49
2013	19	17	24	38	58	64	71	69	62	47	32	14	43
30-year Average	17	21	32	46	58	67	71	69	61	48	35	21	45