

ESD_climate_physiographic_metrics

steppe

2022-05-11

An ecological site description is often based upon several abiotic parameters. The most common of these are:

Physiographic: 1) Elevation 2) Aspect 3) Slope

Climate: 1) Annual Air Temperature 2) Annual Total Precipitation a) Timing of Precipitation b) Driest & Wettest Months 3) Frost free period 4) Initiation and cessation of vegetative growth

Data Analysis

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## [1] "/media/sagesteppe/ExternalHD/UFO_ESD_manual_classification//data/processed"
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Physiographic

Climatic

Results

Table 1: Some AIM site characteristics 2022 UFO

Plot ID	Elev. (ft.)	% Slope	Ppt. (in.)	Annual Temp. (C)	Ann. Temp. (F)
166	NaN	NaN	12	4	40
99	NaN	NaN	10	4	39
190	NaN	NaN	13	5	42
177	NaN	NaN	10	4	40
49	NaN	NaN	11	5	40
235	NaN	NaN	12	6	42
89	NaN	NaN	12	6	42
172	NaN	NaN	12	6	42
148	NaN	NaN	11	4	40
234	NaN	NaN	12	3	38
185	NaN	NaN	10	4	40
125	NaN	NaN	11	4	39
121	NaN	NaN	13	10	49
138	NaN	NaN	13	10	49
87	NaN	NaN	13	10	49
192	NaN	NaN	11	10	50

Table 1: Some AIM site characteristics 2022 UFO (*continued*)

Plot ID	Elev. (ft.)	% Slope	Ppt. (in.)	Annual Temp. (C)	Ann. Temp. (F)
127	NaN	NaN	13	10	49
85	NaN	NaN	13	10	49
104	NaN	NaN	15	9	48
206	NaN	NaN	11	4	39
68	NaN	NaN	12	6	42
200	NaN	NaN	11	4	39
45	NaN	NaN	10	4	40
144	NaN	NaN	9	4	40
120	NaN	NaN	12	5	42
35	NaN	NaN	9	4	40
119	NaN	NaN	12	4	40
128	NaN	NaN	12	5	42
100	NaN	NaN	14	10	51
19	NaN	NaN	10	11	52
79	NaN	NaN	14	9	49
110	NaN	NaN	14	10	51
12	NaN	NaN	15	10	50
123	NaN	NaN	39	0	32
210	NaN	NaN	15	10	51
225	NaN	NaN	14	5	40
195	NaN	NaN	13	5	42
202	NaN	NaN	12	4	39
108	NaN	NaN	9	4	40
186	NaN	NaN	13	5	42
57	NaN	NaN	10	4	39
39	NaN	NaN	11	6	42
245	NaN	NaN	13	4	39
88	NaN	NaN	11	4	39
134	NaN	NaN	12	4	39
233	NaN	NaN	11	4	39
67	NaN	NaN	12	6	42
78	NaN	NaN	41	0	33
73	NaN	NaN	25	1	34
226	NaN	NaN	18	2	36
15	NaN	NaN	15	10	50
151	NaN	NaN	14	10	50
31	NaN	NaN	14	8	46
3	NaN	NaN	13	8	47
201	NaN	NaN	11	11	52
109	NaN	NaN	13	11	51
224	NaN	NaN	12	11	51
2	NaN	NaN	12	9	49
24	NaN	NaN	10	4	40
52	NaN	NaN	11	4	40
103	NaN	NaN	11	4	40
178	NaN	NaN	13	6	44
74	NaN	NaN	10	12	53

Table 1: Some AIM site characteristics 2022 UFO (*continued*)

Plot ID	Elev. (ft.)	% Slope	Ppt. (in.)	Annual Temp. (C)	Ann. Temp. (F)
215	NaN	NaN	15	4	38
187	NaN	NaN	16	4	40
209	NaN	NaN	13	5	41
246	NaN	NaN	14	11	51
62	NaN	NaN	12	5	42
56	NaN	NaN	11	5	40
33	NaN	NaN	13	8	46
191	NaN	NaN	10	4	40
181	NaN	NaN	11	6	42
16	NaN	NaN	10	11	51
25	NaN	NaN	13	8	46
142	NaN	NaN	13	5	41
32	NaN	NaN	16	10	50
18	NaN	NaN	13	8	46
211	NaN	NaN	11	4	39
64	NaN	NaN	13	11	51
229	NaN	NaN	32	0	32
250	NaN	NaN	12	11	51
111	NaN	NaN	12	4	40
159	NaN	NaN	17	4	38
5	NaN	NaN	11	11	52
239	NaN	NaN	13	10	51
66	NaN	NaN	13	9	49
59	NaN	NaN	18	6	43
135	NaN	NaN	14	7	44
41	NaN	NaN	14	7	44
23	NaN	NaN	14	8	46
26	NaN	NaN	13	8	46
92	NaN	NaN	11	4	40
63	NaN	NaN	41	0	32
94	NaN	NaN	43	1	34
236	NaN	NaN	12	8	47
176	NaN	NaN	14	7	44
227	NaN	NaN	12	4	39
179	NaN	NaN	13	5	42
136	NaN	NaN	48	0	31
137	NaN	NaN	44	-1	30
107	NaN	NaN	11	4	39
180	NaN	NaN	26	0	32
27	NaN	NaN	13	8	47
222	NaN	NaN	12	4	38
61	NaN	NaN	14	7	45
169	NaN	NaN	14	11	51
17	NaN	NaN	12	9	49
80	NaN	NaN	14	10	49
82	NaN	NaN	12	4	40
81	NaN	NaN	12	6	42

Table 1: Some AIM site characteristics 2022 UFO (*continued*)

Plot ID	Elev. (ft.)	% Slope	Ppt. (in.)	Annual Temp. (C)	Ann. Temp. (F)
58	NaN	NaN	11	5	40
98	NaN	NaN	13	5	42
77	NaN	NaN	15	9	49
129	NaN	NaN	13	10	49
154	NaN	NaN	12	9	49
208	NaN	NaN	11	10	50
93	NaN	NaN	11	6	42
124	NaN	NaN	16	5	41
205	NaN	NaN	12	3	38
28	NaN	NaN	17	4	40
21	NaN	NaN	10	11	52
105	NaN	NaN	16	5	41
232	NaN	NaN	12	4	39
230	NaN	NaN	14	5	40
212	NaN	NaN	15	4	40
207	NaN	NaN	13	5	41
65	NaN	NaN	40	0	32
174	NaN	NaN	12	9	49
53	NaN	NaN	41	0	31
86	NaN	NaN	13	9	49
76	NaN	NaN	43	-1	31
96	NaN	NaN	13	4	39
7	NaN	NaN	14	8	46
122	NaN	NaN	50	-1	30
90	NaN	NaN	11	4	39
1	NaN	NaN	15	6	42
133	NaN	NaN	15	4	38
221	NaN	NaN	11	10	50
240	NaN	NaN	12	3	38
116	NaN	NaN	13	9	49
75	NaN	NaN	13	11	51
30	NaN	NaN	10	11	51
244	NaN	NaN	15	4	39
168	NaN	NaN	14	9	49
165	NaN	NaN	14	11	52
249	NaN	NaN	16	4	39
188	NaN	NaN	18	3	37
193	NaN	NaN	17	8	46
156	NaN	NaN	19	7	45
189	NaN	NaN	13	9	49
247	NaN	NaN	13	9	49
118	NaN	NaN	14	7	45
8	NaN	NaN	12	11	51
71	NaN	NaN	13	11	52
72	NaN	NaN	11	11	52
152	NaN	NaN	21	3	37

Table 1: Some AIM site characteristics 2022 UFO (*continued*)

Plot ID	Elev. (ft.)	% Slope	Ppt. (in.)	Annual Temp. (C)	Ann. Temp. (F)
217	NaN	NaN	14	5	40
220	NaN	NaN	15	9	48
113	NaN	NaN	14	9	48
97	NaN	NaN	15	9	49
130	NaN	NaN	21	6	43
238	NaN	NaN	11	8	47
60	NaN	NaN	18	6	43
237	NaN	NaN	12	8	47
48	NaN	NaN	14	6	43
46	NaN	NaN	13	7	44
54	NaN	NaN	14	6	43
219	NaN	NaN	13	8	46
214	NaN	NaN	12	8	47
55	NaN	NaN	17	6	44
231	NaN	NaN	11	8	47
242	NaN	NaN	11	9	48
9	NaN	NaN	13	10	51
38	NaN	NaN	12	10	50
140	NaN	NaN	13	11	52
6	NaN	NaN	14	7	45
196	NaN	NaN	17	7	45
173	NaN	NaN	13	10	50
248	NaN	NaN	14	11	51
114	NaN	NaN	49	-1	30
157	NaN	NaN	51	0	33
216	NaN	NaN	24	1	34
198	NaN	NaN	33	2	35
175	NaN	NaN	28	1	34
106	NaN	NaN	12	4	40
20	NaN	NaN	24	3	38
184	NaN	NaN	22	2	36
141	NaN	NaN	16	4	40
139	NaN	NaN	20	6	43
218	NaN	NaN	21	6	43
162	NaN	NaN	12	10	49
101	NaN	NaN	15	8	47
145	NaN	NaN	13	9	49
147	NaN	NaN	19	7	45
213	NaN	NaN	15	9	47
150	NaN	NaN	13	9	49
223	NaN	NaN	14	11	51
112	NaN	NaN	15	9	48
204	NaN	NaN	11	10	49
34	NaN	NaN	21	3	38
170	NaN	NaN	17	4	39
161	NaN	NaN	18	3	38
163	NaN	NaN	12	5	41

Table 1: Some AIM site characteristics 2022 UFO (*continued*)

Plot ID	Elev. (ft.)	% Slope	Ppt. (in.)	Annual Temp. (C)	Ann. Temp. (F)
22	NaN	NaN	13	10	50
132	NaN	NaN	13	10	49
149	NaN	NaN	12	10	50
167	NaN	NaN	15	9	48
146	NaN	NaN	13	10	49
199	NaN	NaN	12	10	50
183	NaN	NaN	14	9	49
241	NaN	NaN	11	10	50
50	NaN	NaN	13	9	49
194	NaN	NaN	13	10	50
143	NaN	NaN	13	10	49
91	NaN	NaN	15	8	47
171	NaN	NaN	20	7	44
43	NaN	NaN	19	6	44
155	NaN	NaN	19	7	44
164	NaN	NaN	20	7	45
131	NaN	NaN	13	10	49
158	NaN	NaN	12	9	49
70	NaN	NaN	13	9	49
126	NaN	NaN	20	7	44
197	NaN	NaN	17	7	45
84	NaN	NaN	11	11	52
13	NaN	NaN	13	10	50
10	NaN	NaN	12	10	51
4	NaN	NaN	13	10	50
40	NaN	NaN	12	10	50
95	NaN	NaN	14	11	51
29	NaN	NaN	14	7	45
37	NaN	NaN	11	11	52
36	NaN	NaN	13	8	47
14	NaN	NaN	10	11	52
47	NaN	NaN	10	11	53
11	NaN	NaN	13	9	47
228	NaN	NaN	13	12	53
42	NaN	NaN	10	12	53
51	NaN	NaN	11	11	52
44	NaN	NaN	11	11	53
69	NaN	NaN	12	6	42
83	NaN	NaN	12	4	40
102	NaN	NaN	12	4	40
115	NaN	NaN	37	2	35
117	NaN	NaN	47	-1	31
153	NaN	NaN	21	3	37
160	NaN	NaN	18	3	38
182	NaN	NaN	11	6	42
203	NaN	NaN	12	4	39
243	NaN	NaN	12	4	38

Table 1: Some AIM site characteristics 2022 UFO (*continued*)

Plot ID	Elev. (ft.)	% Slope	Ppt. (in.)	Annual Temp. (C)	Ann. Temp. (F)
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Table 2: Monthly Precipitation 2022 UFO AIM

Plot	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
166	8.4	7.3	6.1	6.4	9.4	5.1	11.3	14.8	9.3	8.7	6.0	7.3
99	9.5	7.9	5.5	5.5	8.1	5.0	11.0	14.8	10.8	8.3	5.7	7.9
190	8.4	7.3	6.2	5.8	9.6	5.2	11.7	14.7	8.8	9.0	5.9	7.3
177	8.8	7.5	5.9	6.0	8.8	5.2	11.0	14.8	10.2	8.1	6.0	7.6
49	8.7	7.5	6.6	6.1	8.8	5.1	10.9	14.7	9.9	8.2	6.3	7.1
235	8.4	6.9	6.1	7.1	9.0	5.3	11.4	14.7	9.5	7.9	6.1	7.5
89	8.3	7.5	6.7	7.1	9.0	5.2	11.4	14.4	8.9	8.0	6.3	7.1
172	8.4	7.2	6.1	6.3	9.5	5.2	11.4	14.8	9.2	8.7	6.0	7.2
148	8.6	7.5	6.0	6.4	9.0	5.0	11.1	14.7	9.8	8.5	6.0	7.4
234	8.2	7.0	6.0	6.1	9.6	5.3	11.2	15.2	9.6	8.6	6.1	7.2
185	9.3	8.0	5.8	5.9	7.8	5.0	10.5	14.3	11.1	8.4	6.0	8.0
125	8.3	7.1	5.9	6.0	9.5	5.1	10.9	15.2	10.0	8.7	6.1	7.2
121	6.8	8.0	7.2	7.3	8.1	3.8	9.2	12.1	13.9	9.3	6.5	7.9
138	6.3	7.9	6.9	6.6	8.2	4.6	10.0	12.1	13.6	9.2	6.2	8.4
87	6.9	7.8	7.4	7.8	7.7	3.6	8.7	11.5	13.4	9.2	8.1	7.8
192	6.3	8.2	6.7	5.5	8.9	4.7	10.1	12.6	14.3	9.7	4.8	8.2
127	6.2	7.7	6.7	6.3	8.2	4.2	10.6	12.0	13.3	9.9	5.9	9.1
85	6.7	7.8	7.3	7.8	7.8	3.8	8.8	11.7	13.5	9.1	7.9	7.7
104	6.9	7.1	7.2	6.6	7.0	4.2	10.9	10.4	13.7	10.3	6.2	9.6
206	8.3	7.2	6.0	6.2	9.4	5.1	11.1	15.1	9.7	8.5	6.1	7.3
68	8.2	6.9	7.0	6.6	9.4	5.0	11.3	14.6	9.1	8.4	6.6	6.9
200	8.5	7.3	5.9	6.4	9.1	5.1	11.1	14.9	9.9	8.3	6.0	7.4
45	8.1	7.9	5.1	5.6	9.5	5.4	11.9	15.8	10.1	7.4	6.1	7.1
144	9.5	8.2	5.6	5.7	8.0	5.0	10.4	14.0	11.2	8.2	5.9	8.1
120	8.0	6.9	6.4	6.1	9.9	5.2	11.4	15.3	9.1	8.9	6.1	6.8
35	8.6	7.9	5.1	5.2	9.0	5.2	11.4	15.6	10.9	7.8	5.5	7.8
119	8.3	6.5	6.4	6.3	9.7	5.1	11.5	15.1	9.0	8.7	6.4	7.1
128	8.0	6.8	6.2	6.1	10.0	5.2	11.4	15.3	9.1	9.0	6.0	6.9
100	7.1	8.2	7.6	8.6	7.3	4.0	7.6	11.0	12.7	10.5	7.3	8.1
19	6.3	6.1	8.2	10.4	10.2	4.8	9.1	7.7	12.7	12.0	7.0	5.7
79	7.4	8.3	7.6	7.8	7.3	4.1	7.4	10.2	13.0	10.5	7.9	8.4
110	7.3	8.2	7.7	7.1	7.4	4.2	8.2	10.9	12.8	10.7	7.3	8.2
12	6.7	7.1	8.8	9.0	11.0	4.4	8.1	8.4	11.6	11.5	8.4	4.8
123	9.0	8.7	9.1	11.2	6.1	3.3	8.2	9.8	9.4	7.8	8.7	8.7
210	8.2	8.2	7.7	8.2	8.5	3.9	11.1	10.4	10.3	8.9	7.0	7.8
225	8.8	7.8	6.5	6.0	9.3	4.7	12.8	14.1	8.2	8.3	5.9	7.7
195	8.4	7.3	6.2	5.8	9.7	5.2	11.6	14.8	8.9	9.0	6.0	7.3
202	7.5	6.4	5.9	5.6	10.7	5.2	10.9	16.5	9.4	9.4	6.2	6.3
108	9.7	8.3	5.6	5.3	7.6	4.8	10.5	14.1	11.4	8.6	5.8	8.2
186	8.4	7.3	6.2	5.9	9.6	5.2	11.7	14.7	8.9	9.0	6.0	7.3
57	8.3	8.2	5.0	5.5	9.2	5.3	11.7	15.7	10.4	7.5	6.0	7.3
39	8.3	7.9	6.0	5.9	9.3	5.5	11.3	15.3	9.5	7.4	6.4	7.2
245	7.4	7.1	5.5	6.6	9.0	5.6	13.1	15.2	9.5	6.5	6.4	8.1
88	7.8	5.7	6.5	5.5	10.4	5.2	10.5	16.0	10.1	9.1	6.7	6.6
134	7.3	8.8	5.1	5.8	9.5	5.5	12.0	16.3	9.5	6.7	6.1	7.5
233	8.5	7.2	5.9	6.8	8.6	5.0	11.2	15.0	10.4	7.7	5.8	7.8

Table 2: Monthly Precipitation 2022 UFO AIM (*continued*)

Plot	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
67	8.3	7.6	6.8	6.5	8.9	5.4	11.5	14.5	9.2	7.6	6.4	7.1
78	10.7	10.1	10.6	10.4	6.3	2.7	6.4	7.2	7.7	8.0	9.7	10.3
73	8.2	8.3	8.6	10.4	6.6	3.4	9.0	10.4	9.0	9.4	8.3	8.3
226	6.3	6.4	7.4	8.3	6.6	4.3	12.3	14.4	11.2	9.6	6.8	6.4
15	6.9	7.3	8.9	7.9	11.2	4.4	8.3	8.5	11.7	11.7	8.4	4.9
151	6.6	6.6	8.9	10.1	10.5	4.9	7.6	8.7	11.3	11.4	7.8	5.7
31	5.7	5.4	7.2	9.4	10.7	4.8	8.2	12.4	10.6	11.2	5.6	8.8
3	4.9	5.8	6.3	9.5	8.2	4.5	10.6	12.4	12.2	11.9	5.5	8.0
201	6.0	5.9	8.4	11.4	10.2	4.5	7.1	8.1	12.2	11.9	8.2	6.2
109	7.0	7.9	7.6	7.3	7.5	4.2	8.8	10.7	13.2	10.6	7.2	7.9
224	6.5	6.3	9.0	10.2	10.7	4.7	7.4	8.5	11.8	11.9	8.1	5.0
2	5.1	5.3	6.9	11.0	8.2	4.3	10.7	11.0	12.4	12.4	5.9	6.7
24	8.0	7.5	4.9	5.8	9.5	5.5	12.3	16.0	10.1	7.2	6.0	7.2
52	8.8	7.9	6.5	6.0	8.5	5.0	11.0	14.3	9.9	8.2	6.3	7.4
103	7.6	6.6	5.7	6.2	10.3	5.2	11.0	16.1	9.6	8.9	6.0	6.7
178	6.3	6.7	8.2	8.7	10.0	4.6	4.5	13.6	10.0	10.0	7.4	9.9
74	6.1	5.9	8.1	10.7	10.4	4.8	7.3	9.0	13.1	11.3	7.6	5.8
215	7.4	7.6	5.7	7.3	9.6	5.7	12.8	13.3	9.1	6.5	6.6	8.4
187	7.3	7.4	7.0	8.9	7.9	4.7	13.8	13.9	8.6	7.8	5.9	6.8
209	8.4	7.3	6.2	5.4	9.7	5.2	11.8	14.8	8.8	9.0	6.0	7.3
246	6.5	6.5	9.4	10.0	11.0	4.6	7.5	8.3	11.2	11.6	8.3	5.0
62	8.2	7.7	6.8	6.0	8.8	5.3	11.5	15.1	9.4	7.6	6.4	7.1
56	8.6	7.8	6.7	6.6	8.6	5.1	11.2	14.4	9.7	7.8	6.4	7.2
33	4.5	5.1	7.3	9.8	10.5	4.7	9.0	12.5	11.5	11.6	5.4	8.3
191	9.1	7.8	5.9	6.1	8.1	4.9	10.6	14.4	10.8	8.4	6.0	7.8
181	8.5	7.3	6.0	6.6	9.2	5.1	11.2	14.8	9.7	8.3	6.0	7.3
16	6.1	5.9	8.2	10.4	9.5	5.0	10.0	8.2	12.3	12.0	6.8	5.5
25	5.8	5.5	7.3	9.4	9.6	4.7	8.7	12.6	11.2	11.0	6.1	8.2
142	7.7	7.2	6.3	7.4	9.3	5.0	12.2	15.1	8.8	8.4	5.9	6.8
32	6.6	7.0	9.5	8.6	11.6	4.5	7.8	8.0	11.4	12.0	9.1	4.1
18	5.4	5.9	7.4	8.9	8.6	4.7	8.9	12.6	11.2	11.0	7.0	8.2
211	8.2	7.1	6.0	6.1	9.5	5.1	11.1	15.2	9.8	8.6	6.1	7.3
64	7.1	8.1	7.7	7.3	7.6	4.2	8.2	10.2	13.4	10.8	7.3	8.1
229	9.3	9.0	8.8	12.4	6.8	2.7	7.7	9.9	6.6	8.3	9.2	9.2
250	6.1	6.6	7.7	11.6	10.7	4.8	6.9	8.5	12.6	11.3	8.0	5.3
111	7.8	6.5	6.3	6.3	10.2	5.2	11.2	15.6	9.3	8.9	6.0	6.7
159	6.9	6.8	7.2	9.0	8.4	4.5	13.8	13.6	9.2	7.9	6.0	6.7
5	6.3	6.3	8.1	10.0	10.3	4.7	8.2	8.4	12.6	12.0	7.7	5.5
239	6.7	6.5	8.6	10.1	10.5	4.9	7.5	8.6	11.5	11.5	7.8	5.7
66	4.8	5.0	6.7	11.7	8.3	5.1	9.0	11.0	12.0	12.8	6.1	7.5
59	7.0	7.7	9.2	7.2	11.1	5.5	4.3	11.3	10.3	9.7	5.9	10.8
135	4.4	5.1	7.9	10.5	10.2	4.8	5.7	12.0	10.9	11.2	8.1	9.3
41	5.1	5.3	6.7	9.3	9.8	4.5	6.8	12.8	11.0	11.4	8.0	9.3
23	6.0	5.9	7.2	8.7	9.8	4.8	8.8	12.8	10.7	10.7	6.5	8.1
26	4.8	5.2	7.4	9.7	9.3	4.8	9.4	12.5	11.6	11.6	5.4	8.3
92	7.4	6.0	6.1	6.0	10.7	5.3	10.5	16.8	9.6	9.1	6.3	6.2
63	10.6	10.3	10.5	10.2	6.3	2.9	6.5	7.5	7.6	8.1	9.4	10.0

Table 2: Monthly Precipitation 2022 UFO AIM (*continued*)

Plot	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
94	10.7	10.4	10.8	11.1	6.8	2.5	5.6	6.8	6.7	8.2	10.0	10.3
236	6.5	6.4	8.5	9.2	9.5	4.7	5.3	12.5	9.8	10.2	8.5	8.9
176	6.7	6.3	8.4	8.4	10.1	4.7	4.8	13.4	10.5	9.0	7.7	10.0
227	7.4	7.1	5.7	6.5	9.2	5.6	13.1	15.0	9.7	6.5	6.3	7.9
179	8.6	7.5	6.3	5.3	9.7	5.1	12.0	14.7	8.6	8.8	6.0	7.4
136	10.2	10.1	10.1	10.5	6.5	2.8	6.6	8.1	7.8	7.6	9.7	10.0
137	9.3	9.2	9.7	11.4	6.0	3.0	7.5	9.2	8.6	7.8	9.1	9.2
107	7.8	6.6	5.7	6.0	10.3	5.2	10.7	16.2	9.7	8.8	6.0	6.8
180	7.4	8.1	9.0	10.6	6.6	3.1	10.0	10.5	9.0	9.5	8.4	7.8
27	4.7	5.2	7.4	9.7	9.2	4.7	9.7	12.3	11.7	11.7	5.4	8.3
222	8.2	7.1	6.0	5.8	9.7	5.2	11.3	15.2	9.5	8.6	6.1	7.2
61	4.7	5.3	7.3	10.9	9.3	4.6	6.9	12.6	11.6	10.7	6.9	9.2
169	6.6	6.3	9.9	9.9	11.2	4.5	7.6	8.1	11.0	11.9	8.7	4.4
17	5.0	5.2	6.7	11.2	8.6	4.0	10.5	10.8	12.1	12.3	6.0	7.5
80	7.4	8.3	7.6	8.0	7.5	4.1	7.5	10.2	12.9	10.5	7.7	8.3
82	8.4	7.5	6.6	6.9	9.0	5.2	11.4	14.4	9.2	8.1	6.3	7.2
81	8.3	7.5	6.7	7.1	9.0	5.2	11.4	14.4	9.0	8.0	6.3	7.1
58	8.5	7.8	6.7	6.5	8.7	5.2	11.2	14.4	9.6	7.9	6.4	7.2
98	8.3	6.7	6.8	6.4	9.5	5.0	11.5	14.9	9.0	8.6	6.4	7.0
77	6.4	7.7	7.1	7.2	7.4	4.3	10.3	11.4	13.2	10.0	6.9	8.1
129	6.4	7.9	6.5	6.9	8.2	4.7	10.2	12.0	13.4	8.9	6.5	8.5
154	6.0	8.0	6.2	6.3	8.3	5.1	10.5	12.3	13.5	9.1	5.8	8.8
208	6.3	8.2	6.6	5.4	8.9	4.7	10.1	12.5	14.4	9.7	4.9	8.3
93	8.4	7.3	6.1	6.5	9.4	5.3	11.1	14.9	9.5	8.4	6.1	7.2
124	8.7	8.3	5.2	5.8	9.2	5.3	11.4	16.6	9.0	6.7	6.1	7.8
205	7.4	7.4	5.7	6.8	9.1	5.7	12.4	14.9	9.7	6.5	6.5	7.9
28	7.2	8.7	10.0	7.8	7.2	4.4	11.9	13.3	8.7	7.4	7.8	5.6
21	6.1	5.9	8.0	10.5	10.0	5.1	10.1	7.5	12.4	12.2	6.6	5.6
105	8.4	8.2	5.0	5.8	9.4	5.3	11.6	17.0	8.8	6.5	6.0	8.2
232	7.4	7.1	5.7	6.5	9.2	5.6	13.1	15.0	9.7	6.5	6.3	7.9
230	8.0	7.3	6.7	7.5	8.9	4.7	12.9	14.6	8.6	8.1	6.1	6.5
212	7.7	7.2	7.2	8.2	8.2	4.7	13.1	14.2	8.7	7.9	6.3	6.6
207	8.6	7.4	6.3	5.4	9.7	5.1	12.2	14.8	8.6	8.5	6.0	7.4
65	10.5	10.1	10.2	10.3	6.3	2.9	6.6	7.6	7.8	8.2	9.4	10.0
174	6.0	8.1	6.4	5.9	8.3	5.2	10.7	12.4	13.5	9.2	5.4	9.1
53	10.8	10.4	10.6	10.2	5.8	2.7	6.0	7.8	8.0	7.8	9.7	10.3
86	6.9	7.8	7.3	7.7	7.8	3.8	8.8	11.8	13.4	9.1	8.0	7.7
76	10.5	10.1	10.5	10.5	6.1	2.6	7.1	7.8	7.0	7.9	9.7	10.1
96	7.3	6.3	6.3	7.4	9.2	5.1	12.1	15.8	9.5	8.4	6.1	6.4
7	5.9	5.5	7.0	8.6	8.7	4.6	10.1	12.9	10.8	11.0	5.8	9.2
122	10.5	10.3	10.3	10.7	6.5	2.8	6.4	7.4	7.4	7.7	9.9	10.2
90	7.5	5.8	6.3	5.6	10.8	5.2	10.4	16.7	9.6	9.1	6.4	6.5
1	7.3	7.2	8.1	9.0	8.5	4.6	8.5	9.9	11.8	9.3	7.3	8.4
133	8.4	8.3	5.1	5.8	9.1	5.3	11.4	17.0	9.0	6.5	6.0	8.1
221	6.2	8.1	7.1	6.2	8.9	4.0	10.2	12.4	14.1	9.7	5.6	7.6
240	8.3	7.1	6.0	6.3	9.4	5.3	11.2	15.1	9.7	8.3	6.1	7.3
116	6.3	7.8	6.7	6.7	8.0	4.7	10.5	12.0	13.2	8.9	6.4	8.7

Table 2: Monthly Precipitation 2022 UFO AIM (*continued*)

Plot	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
75	7.1	8.0	7.7	7.8	7.7	4.3	8.2	9.8	13.3	10.8	7.3	8.0
30	5.9	5.9	7.7	10.6	9.9	5.3	10.5	7.7	12.2	11.8	6.8	5.6
244	8.5	7.5	6.4	7.6	9.2	5.1	12.3	13.6	7.8	8.9	5.8	7.4
168	7.4	8.2	7.5	7.2	7.7	3.3	9.2	11.4	12.5	9.7	7.8	8.0
165	6.4	6.4	9.3	10.2	11.2	4.3	7.1	7.7	11.7	12.0	9.1	4.7
249	8.8	7.8	6.5	7.5	8.9	5.0	12.6	13.1	7.6	8.8	5.7	7.6
188	6.7	6.9	7.7	8.9	6.7	4.1	11.2	13.6	10.3	9.7	7.3	6.8
193	8.3	7.9	7.7	7.7	7.3	3.4	10.7	11.3	12.2	8.6	7.4	7.6
156	8.9	8.6	8.9	7.9	7.0	3.3	9.6	10.7	11.1	8.3	7.9	7.7
189	7.1	8.2	7.7	7.3	7.8	3.3	9.1	11.4	12.6	9.6	7.9	8.0
247	7.1	8.5	7.8	7.4	7.8	3.3	9.0	10.8	12.5	9.9	7.6	8.3
118	4.6	5.1	8.0	11.3	9.2	5.0	6.2	11.9	11.8	11.8	6.2	8.9
8	6.6	6.7	8.7	8.4	11.0	4.5	8.1	8.4	12.2	11.9	8.4	5.0
71	6.3	6.3	9.1	10.4	10.9	4.6	7.1	8.1	11.8	12.1	8.4	4.8
72	5.9	6.0	8.2	10.3	10.5	5.3	9.0	8.5	12.4	11.4	7.3	5.2
152	7.1	7.4	8.4	10.1	6.8	3.6	11.2	12.0	9.4	9.1	7.6	7.3
217	8.8	7.8	6.5	6.0	9.3	4.7	12.8	14.1	8.2	8.3	5.9	7.7
220	8.1	8.5	7.8	7.3	7.5	3.2	8.4	11.9	12.6	9.0	7.8	8.0
113	7.4	8.0	7.5	7.7	7.7	3.4	8.8	11.3	12.8	9.4	8.0	8.0
97	7.1	7.0	7.0	6.6	6.9	4.2	11.0	10.6	13.6	10.4	6.2	9.4
130	9.5	7.9	9.5	8.3	7.0	3.5	10.5	10.4	10.7	7.8	7.5	7.5
238	6.3	6.3	8.1	9.0	10.0	4.6	5.2	13.2	9.7	10.2	8.0	9.5
60	7.0	7.7	9.2	7.2	11.1	5.5	4.3	11.3	10.3	9.7	5.9	10.8
237	6.5	6.4	8.5	9.2	9.5	4.7	5.3	12.5	9.8	10.2	8.5	8.9
48	6.0	5.5	8.0	9.0	8.6	4.3	6.5	13.0	10.4	10.8	7.5	10.5
46	6.1	5.8	6.4	8.7	9.3	5.1	6.4	13.0	10.5	11.0	7.7	10.0
54	6.0	5.5	6.8	8.6	10.5	5.0	5.6	12.8	10.2	11.1	7.8	10.0
219	7.0	6.9	8.5	8.5	9.8	4.6	5.1	13.0	9.7	10.0	8.3	8.6
214	6.2	6.2	7.8	9.0	10.0	4.6	4.8	13.4	9.8	10.1	8.2	9.8
55	6.9	7.3	8.1	7.3	10.8	5.6	4.9	11.9	10.4	10.0	6.0	10.9
231	6.2	6.2	8.0	8.8	9.9	4.5	5.0	13.4	9.8	10.3	8.0	9.7
242	6.3	6.6	8.2	8.0	9.9	4.7	5.0	13.7	9.7	10.1	8.2	9.7
9	6.7	6.9	8.6	8.2	11.0	4.5	8.2	8.5	12.2	11.8	8.3	4.9
38	5.1	5.0	7.2	11.6	8.8	4.4	9.9	10.0	12.2	12.7	6.4	6.8
140	7.8	7.9	7.1	7.5	8.1	4.5	10.1	10.1	12.0	10.1	6.7	8.0
6	6.3	7.9	9.4	7.1	9.2	4.1	8.5	12.5	9.6	9.3	6.0	10.1
196	6.6	6.1	10.2	10.7	9.4	5.2	7.1	8.1	11.0	11.2	7.7	6.7
173	6.7	6.4	8.5	10.1	10.5	4.9	7.6	8.6	11.6	11.5	7.9	5.6
248	8.0	8.1	7.1	7.6	8.2	4.8	10.5	9.6	10.7	9.8	6.8	8.7
114	10.2	9.9	9.7	11.2	6.4	2.9	6.4	7.8	8.1	7.9	9.6	9.9
157	10.2	10.0	10.1	10.5	6.4	2.8	6.6	8.1	8.1	7.4	9.7	10.1
216	8.5	8.2	8.6	11.6	6.5	2.9	9.5	10.6	8.0	8.9	8.3	8.3
198	9.2	9.3	9.5	8.6	6.7	3.5	8.1	10.1	10.1	8.1	8.1	8.7
175	8.9	8.6	8.9	11.7	6.5	3.1	8.5	9.7	7.7	9.0	8.7	8.8
106	7.8	6.3	6.3	6.5	10.0	5.1	11.1	15.9	9.3	8.8	6.3	6.6
20	7.6	8.3	9.9	9.4	7.0	4.1	10.1	11.5	9.6	8.3	7.7	6.4

Table 2: Monthly Precipitation 2022 UFO AIM (*continued*)

Plot	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
184	6.9	7.4	8.5	10.5	6.4	3.6	12.5	11.9	9.1	8.5	7.5	7.2
141	7.3	7.4	7.0	9.1	7.7	4.7	13.9	13.9	8.7	7.6	5.9	6.8
139	9.3	7.9	9.3	8.2	7.1	3.6	10.1	10.7	10.9	7.9	7.5	7.5
218	8.6	8.4	8.9	8.2	7.2	3.4	9.9	10.8	10.7	8.1	8.0	7.8
162	6.2	7.9	6.6	6.5	8.4	4.3	10.6	12.3	13.4	9.4	5.5	9.0
101	7.6	7.9	7.6	7.5	7.6	3.5	9.6	11.6	12.7	8.8	7.7	8.0
145	6.6	8.1	7.2	7.1	8.0	4.1	9.4	12.3	13.7	9.1	6.4	7.9
147	8.8	7.5	8.7	8.1	7.0	3.7	11.4	11.0	11.5	8.0	7.2	7.1
213	8.2	8.3	7.8	7.2	7.6	3.2	8.4	11.6	12.3	9.2	7.9	8.1
150	6.3	8.0	7.1	6.8	8.1	4.4	10.0	12.1	13.4	9.2	6.3	8.3
223	7.4	8.1	7.2	6.5	7.8	4.8	9.8	11.2	13.1	9.1	6.1	9.0
112	6.8	7.2	7.2	6.6	7.1	4.2	10.8	10.7	13.4	10.0	6.3	9.6
204	6.2	8.2	7.1	5.5	8.8	4.4	10.2	12.5	14.1	9.8	5.1	8.2
34	7.5	7.6	9.6	9.0	6.7	3.9	11.7	12.3	9.4	8.0	7.5	6.7
170	7.2	7.0	7.2	8.9	7.4	4.6	13.7	13.9	9.2	8.1	6.1	6.8
161	6.8	6.7	7.4	9.3	7.8	4.4	14.1	13.5	9.4	7.8	6.1	6.6
163	7.7	6.6	5.8	6.1	10.4	5.3	11.1	16.1	9.2	9.2	6.0	6.6
22	5.9	7.4	7.2	7.6	8.2	4.0	8.2	12.9	13.7	9.3	8.1	7.7
132	6.2	7.9	6.8	6.6	8.2	4.6	9.9	12.2	13.7	9.1	6.3	8.4
149	6.3	7.9	7.0	5.9	8.4	4.4	10.4	12.2	13.4	9.8	5.4	9.0
167	7.9	8.3	7.6	7.1	7.5	3.4	9.0	12.0	12.5	8.7	8.0	8.2
146	6.8	7.8	7.0	6.1	8.1	4.3	10.4	11.8	12.8	10.2	5.6	9.2
199	6.0	7.8	7.8	8.3	8.0	3.5	9.6	11.0	13.2	9.4	8.2	7.4
183	7.4	8.3	7.7	7.0	7.7	3.3	8.8	12.2	12.4	9.0	8.1	8.0
241	6.3	8.2	6.6	5.5	9.1	4.4	10.3	12.6	14.5	9.7	5.0	7.9
50	6.9	7.9	7.5	7.6	7.9	3.6	7.6	11.9	13.2	9.5	8.3	8.0
194	6.8	7.6	7.0	6.3	8.1	4.7	10.4	11.0	13.1	10.0	5.8	9.4
143	6.0	8.0	6.4	6.5	8.2	5.0	10.6	12.3	13.3	8.8	6.0	8.9
91	6.7	7.4	7.4	7.6	7.5	3.6	10.1	12.5	13.0	8.7	7.7	7.7
171	9.5	8.0	9.4	8.2	7.1	3.5	9.9	10.5	10.8	8.0	7.5	7.6
43	6.9	7.0	8.2	8.3	7.0	3.7	13.4	11.1	12.3	8.0	7.5	6.6
155	9.0	8.7	8.9	8.0	7.0	3.3	9.6	10.7	11.1	8.3	7.9	7.6
164	9.0	8.7	9.0	8.0	7.0	3.3	9.7	10.7	11.1	8.3	8.0	7.1
131	6.6	8.0	7.2	7.0	8.1	3.9	9.3	12.1	13.9	9.4	6.5	8.0
158	6.0	8.0	6.6	6.4	8.3	5.0	10.4	12.2	13.4	9.2	5.9	8.6
70	6.9	7.9	7.5	7.9	7.7	3.7	8.6	11.3	13.3	9.3	8.1	7.9
126	8.9	7.8	9.3	8.2	7.0	3.6	10.7	10.6	11.0	7.9	7.5	7.4
197	6.5	6.3	10.2	10.7	9.5	5.1	7.1	8.1	10.8	11.3	7.7	6.7
84	6.3	6.2	8.3	10.7	10.3	4.8	7.0	8.6	12.7	12.0	7.7	5.4
13	6.7	7.1	8.8	8.2	11.0	4.5	8.2	8.4	12.1	11.9	8.4	4.7
10	5.2	5.3	7.6	11.4	8.7	4.5	10.3	9.6	12.0	12.4	6.4	6.5
4	6.8	7.1	8.5	8.2	10.9	4.4	8.3	8.7	12.1	11.7	8.1	5.0
40	5.2	5.0	7.2	11.6	8.8	4.4	9.8	10.0	12.2	12.7	6.4	6.7
95	7.3	8.3	7.6	7.3	7.6	4.3	8.2	10.1	13.2	10.7	7.3	8.2
29	6.4	6.1	7.2	8.0	10.0	4.7	7.7	12.5	9.8	10.4	7.1	10.1
37	6.0	6.0	8.3	10.3	10.3	5.3	10.0	7.6	12.4	11.2	7.2	5.4
36	4.7	5.3	7.1	10.2	10.0	4.6	8.9	12.0	11.8	11.9	5.6	7.9

Table 2: Monthly Precipitation 2022 UFO AIM (*continued*)

Plot	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
14	5.9	6.0	7.7	10.5	9.5	5.2	10.8	7.7	12.2	12.1	6.8	5.5
47	6.3	5.9	8.2	10.5	10.3	4.8	7.4	8.9	13.0	11.6	7.4	5.7
11	4.9	5.6	7.4	9.5	7.6	4.9	10.2	12.3	12.0	11.9	5.5	8.1
228	6.3	6.8	8.7	9.2	8.5	4.4	8.3	10.4	11.9	10.7	7.7	7.1
42	6.3	5.9	8.1	10.6	10.2	4.8	7.5	9.0	13.1	11.5	7.3	5.8
51	5.9	5.3	7.5	11.3	9.3	4.7	9.3	9.4	12.0	12.3	6.8	6.2
44	6.4	6.0	8.3	10.4	10.3	4.8	7.3	8.7	12.8	11.9	7.6	5.6
69	8.2	6.9	7.0	6.6	9.4	5.0	11.3	14.6	9.1	8.4	6.6	6.9
83	8.4	7.5	6.6	6.9	9.0	5.2	11.4	14.4	9.2	8.1	6.3	7.2
102	8.2	6.5	6.6	6.3	9.7	5.1	11.5	15.1	9.1	8.7	6.3	7.0
115	10.1	10.1	10.3	10.2	6.9	2.8	6.4	7.9	8.0	8.3	9.4	9.6
117	9.9	9.7	9.4	10.9	6.3	3.0	7.0	8.4	8.7	7.7	9.4	9.6
153	7.1	7.4	8.4	10.1	6.8	3.6	11.2	12.0	9.4	9.1	7.6	7.3
160	6.8	6.7	7.4	9.3	7.8	4.4	14.1	13.5	9.4	7.8	6.1	6.6
182	8.5	7.3	6.0	6.6	9.2	5.1	11.2	14.8	9.7	8.3	6.0	7.3
203	7.5	6.4	5.9	5.6	10.7	5.2	10.9	16.5	9.4	9.4	6.2	6.3
243	8.2	7.1	6.1	6.7	9.5	5.4	11.3	14.9	9.5	8.1	6.0	7.2