

THE PHENOLOGY OF NOVA SCOTIA, 1922.—BY A. H. MACKAY,
LL.D., Halifax.

These observations were made by the school children of the Province of Nova Scotia as a part of the Nature Study work prescribed. The pupils report by bringing into the school-room the flowering or other specimens when first observed, for authoritative determination by the teacher, who generally credits the first finder by placing the name and the observation on the honor roll section of the blackboard for the day. The teacher, after testing the correctness of the observation, marks it on the schedule with which every teacher is provided—a copy of which is sent in to the Inspector with the school returns at the end of June and January.

The following tables are complied from 130 of the best schedules out of the 300 sent in. The selections were made and compiled under the direction of Mr. H. R. Shinner, B.A. and Miss Annimae Bill, of the Education Department.

The schedules for each year are carefully bound up in large annual volumes which are placed in the Provincial Museum and Science Library, where they can be used by students of climate, etc. The compilers of the phenochrons of the different belts, slopes or regions, have been rural science teachers who have most distinguished themselves as instructors. They were selected for the purpose on the recommendation of the Director of rural science education. The sheets from which the provincial phenochrons are calculated are also bound in annual folio volumes for ease of consultation and preservation.

The province is divided into its main climate slopes or regions not always coterminous with the boundaries of counties. Slopes, especially those to the coast, are subdivided into belts such as (a) the coast belt, (b) the low inland belt, and (c) the high inland belt, as follows:

No.	Regions or Slopes	Belts
I.	Yarmouth and Digby Counties,	(a) Coast, (b) Low Inlands, (c) High Inlands.
II.	Shelburne, Queens & Lunenburg Co's.	
III.	Annapolis and Kings Counties,	(a) South Mts., (b) Annapolis Valley, (c) Cornwallis Valley, (d) North Mts.
IV.	Hants and Colchester Counties,	(a) Coast, (b) Low Inlands, (c) High Inlands
V.	Halifax and Guysboro Counties,	" "
VI.a.	Cobequid Slope (to the south),	" "
VI.b.	Chignecto Slope (to the northwest),	" "
VII.	Northumberland Straits Slope (to the north),	" "
VIII.	Richmond & Cape Breton Co.'s	" "
IX.	Bras d'Or Slope (to the southeast),	" "
X.	Inverness Slope (to Gulf, N. W.),	" "

The ten regions are indicated on the outline map

**COMPILATION INSTRUCTIONS—AVERAGING LOCAL PHENOCHRONS
FOR “REIGN” OR “BELT” PHENOCHRONS.**

If ten or fewer good phenological observations schedules can be selected from those belonging to any given belt, they may be averaged as indicated in the columns within. If there are not ten from each belt, then it may be better to combine two belts, or if necessary, three belts on the form within. In the latter case the average will be the “region” phenochron. When a full sheet can be made out for each belt, the average of the phenochrons for the three “belts” will give the phenochrons for the “region.” Finally, the phenochrons of each of the ten regions will be averaged to find the provincial phenochron for each phenomenon on the list. This will be done by the compiler-in-chief.

There is a convenience in averaging the dates of ten stations, which accounts for the ten columns for stations in the form within. When a few dates are not given it may be fair to enter in the blanks the dates from a similar and neighboring station which is not otherwise utilized for the sheet. Great care should

be taken that such observations taken from a schedule not summarized, should be what might have been observed at the station indicated in the heading, and to indicate such a transference the date should be surrounded by a circle with the pen, which would always mean that the observation was not made in the station heading the column, but in a neighboring one, and was taken from a supernumerary schedule.

THUNDER-STORMS.—These dates will be entered in their respective columns and opposite the month indicated. They will not be averaged, of course. The number of observation schedules represented in any “region” or general sheet under this head should be noted somewhere on the top margin of the page.

ACCURACY.—Care must be exercised in selecting schedules, the observations of which appear to have been carefully made, neglecting any which give reason for doubt, when selecting for summation on the form within. Great care must also be exercised in copying the figures and entering them, so that no slip may occur. Every entry should be checked. One slip may spoil the effect of all the accurate numbers entering into the summation. In like manner great care has to be taken in adding and averaging the figures, and for this purpose every sum should be done twice (once in reverse order,) so as to give absolute confidence in the accuracy of the work.

REMARKS.—The compiler filling one of these blanks should keep one copy for himself while sending the other to the compiler-in-chief.

The set of stations on the right under “when becoming common,” must be EXACTLY the same as on the left, under “when first seen.” The compiler can enter explanatory remarks in the blank below, and should sign each sheet as a guarantee of its correctness. These sheets will be bound into a volume for each year.

THE PHENOLOGY OF NOVA SCOTIA 1922

(Compiled from the best 130 out of 300 local observation schedules.)

WHEN FIRST SEEN	YEAR 1922	WHEN BECOMING COMMON												
		OBSERVATION STATIONS												
		AVERAGE DATES	1. Ailanthus altissima, Wild.	111										
93	109	118	2. Populus tremuloides	118	2. Populus tremuloides	118	2. Populus tremuloides	118	2. Populus tremuloides	118	2. Populus tremuloides	118	2. Populus tremuloides	118
"	105	116	3. Epigaea repens, L.	116	3. Epigaea repens, L.	116	3. Epigaea repens, L.	116	3. Epigaea repens, L.	116	3. Epigaea repens, L.	116	3. Epigaea repens, L.	116
"	95	132	4. Equisetum arvense	109										
116	127	126	5. Sanguinaria Canadensis	129										
"	126	132	6. Viola Blanda	135										
"	133	128	7. Viola palmata, CULICULATA	128	7. Viola palmata, CULICULATA	128	7. Viola palmata, CULICULATA	128	7. Viola palmata, CULICULATA	128	7. Viola palmata, CULICULATA	128	7. Viola palmata, CULICULATA	128
127	125	121	8. Hepatica trifolia, etc.	129										
"	107	128	9. Acer rubrum	140										
123	134	134	10. Fraxinus Virginiana	130										
123	113	119	11. Fraxinus Virginiana, fruit ripe	132										
153	137	151	12. Taraxacum officinale	165										
128	135	130	13. Erythronium Americanum	133										
"	138	138	14. Copis trifolia	139										
"	134	139	15. Claytonia Caroliniana	141										
128	129	145	16. Nepeta Glechoma	152										
"	122	127	17. Amelanchier Canadensis	129										
129	135	140	18. Amelanchier Canadensis, fruit ripe	140	18. Amelanchier Canadensis, fruit ripe	140	18. Amelanchier Canadensis, fruit ripe	140	18. Amelanchier Canadensis, fruit ripe	140	18. Amelanchier Canadensis, fruit ripe	140	18. Amelanchier Canadensis, fruit ripe	140
"	139	142	19. Prunus Pensylvanica	143										
140	139	142	20. Prunus Pensylvanica, fruit ripe	143										
"	134	143	21. Vaccinium Can. fruit ripe	146										
129	134	146	22. Vaccinium Can. fruit ripe	149										
"	143	147	23. Vaccinium Can. fruit ripe	154										
"	145	149	24. Vaccinium Can. fruit ripe	154										
"	138	146	25. Vaccinium Can. fruit ripe	154										
"	145	149	26. Vaccinium Can. fruit ripe	154										
"	136	148	27. Vaccinium Can. fruit ripe	154										
"	145	149	28. Vaccinium Can. fruit ripe	154										

PHENOLOGICAL OBSERVATIONS IN

THE PHENOLOGY OF NOVA SCOTIA 1922 (CONTINUED)

When First Seen	Year 1922		Observation Stations
	When Becoming Common	Observation Stations	
Average Dates			
1. Yarmouth & Digby	150	151	154
2. Sheld., Quebec	151	153	155
3. Lunenburg Co., N.S.	152	154	156
4. Annapolis, N.S.	153	155	157
5. Schib., Quebec	154	156	158
6. Gaspé Gulf Slope to	155	157	159
7. Northumberland Slope to	156	158	160
8. Chignecto Slope to	157	159	161
9. Gaspé Gulf Slope to	158	160	162
10. Brants D'Or & Gaspé	159	161	163
11. Richmondtown & Cap-	160	162	164
12. Gaspé Gulf Slope to	161	163	165
13. Chignecto Slope to	162	164	166
14. Gaspé Gulf Slope to	163	165	167
15. Gaspé Gulf Slope to	164	166	168
16. Chignecto Slope to	165	167	169
17. Northumberland Slope to	166	168	170
18. Gaspé Gulf Slope to	167	169	171
19. Chignecto Slope to	168	170	172
20. Gaspé Gulf Slope to	169	171	173
21. Chignecto Slope to	170	172	174
22. Gaspé Gulf Slope to	171	173	175
23. Ranunculus acris.....	150	151	152
24. R. Repens.....	156	157	158
25. Trill. erythrocarpum.....	157	158	159
26. Rhododendron Rhodora.....	159	160	161
27. Cornus Canadensis.....	159	160	161
28. Cornus Canadensis, fruit ripe.....	160	161	162
29. Trifolium Americana.....	160	161	162
30. Clintonia borealis.....	160	161	162
31. Calla palustris.....	160	161	162
32. Cypridium aculeatum.....	160	161	162
33. Sphagnum angustifolium.....	160	161	162
34. Linnaea borealis.....	161	162	163
35. Kalmia glauca.....	161	162	163
36. Kalmia angustifolia.....	161	162	163
37. Crataegus oxyacantha.....	161	162	163
38. Crataegus coccinea, etc.....	161	162	163
39. Iris versicolor.....	161	162	163
40. Chrysanthemum Leucanthemum.....	161	162	163
41. Nuphar advena.....	161	162	163
42. Rubus strigosus.....	161	162	163
43. Rubus strigosus, fruit ripe.....	161	162	163
44. Rhinanthus Crista-galli.....	161	162	163

THE PHENOLOGY OF NOVA SCOTIA 1922 (CONTINUED)

PHENOLOGICAL OBSERVATIONS IN

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OBSERVATION STATIONS	WHEN FIRST SEEN	YEAR 1922	WHEN BECOMING COMMON	
			OBSERVATION STATIONS	
1. Yarmouth & Digby Counties, N. S.			Average Dates	
2. Sheld., Queens & Kings Counties, N. S.				Day of the year corresponding to the last day of each month.
3. Annapolis, N. S.				Jan. 31 July 212
4. Halifax & Col. South Cobeguid Bay.				Feb. 59 Aug. 243
5. Hants & Col. South Cobeguid Bay.				March 90 Oct. 273
6. Cape Breton Slope to North West.				April 120 Nov. 304
7. Northumbria Slope to South.				May 151 Dec. 334
8. Richmod & Cape Breton Counties, N. S.				June 181 Nov. 365
9. & 10. Bras D'Or & Inverness Slopes, N. S.				For Leap Year add one to each, except January
11. Yarmouth & Digby Counties, N. S.				169 167 170 170 166 164 162 160 159 157 156 154 153 152 151 150 149 148 147 146 145 144 143 142 141 140 139 138 137 136 135 134 133 132 131 130 129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106
12. Lunenburg Co., N. S.				164 162 160 159 158 157 156 155 154 153 152 151 150 149 148 147 146 145 144 143 142 141 140 139 138 137 136 135 134 133 132 131 130 129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106
13. Annaopolis, N. S.				163 161 160 159 158 157 156 155 154 153 152 151 150 149 148 147 146 145 144 143 142 141 140 139 138 137 136 135 134 133 132 131 130 129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106
14. Hants & Col. South Cobeguid Bay.				162 161 160 159 158 157 156 155 154 153 152 151 150 149 148 147 146 145 144 143 142 141 140 139 138 137 136 135 134 133 132 131 130 129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106
15. Hants & Col. South Cobeguid Bay.				161 160 159 158 157 156 155 154 153 152 151 150 149 148 147 146 145 144 143 142 141 140 139 138 137 136 135 134 133 132 131 130 129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106
16. Cape Breton Slope to South.				160 159 158 157 156 155 154 153 152 151 150 149 148 147 146 145 144 143 142 141 140 139 138 137 136 135 134 133 132 131 130 129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106
17. Northumbria Slope to South.				159 158 157 156 155 154 153 152 151 150 149 148 147 146 145 144 143 142 141 140 139 138 137 136 135 134 133 132 131 130 129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106
18. Richmod & Cape Breton Counties, N. S.				158 157 156 155 154 153 152 151 150 149 148 147 146 145 144 143 142 141 140 139 138 137 136 135 134 133 132 131 130 129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106
19. & 20. Bras D'Or & Inverness Slopes, N. S.				157 156 155 154 153 152 151 150 149 148 147 146 145 144 143 142 141 140 139 138 137 136 135 134 133 132 131 130 129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106
21. Cape Breton Slope to North West.				156 155 154 153 152 151 150 149 148 147 146 145 144 143 142 141 140 139 138 137 136 135 134 133 132 131 130 129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106
22. Cape Breton Slope to South.				155 154 153 152 151 150 149 148 147 146 145 144 143 142 141 140 139 138 137 136 135 134 133 132 131 130 129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106
23. Cape Breton Slope to North West.				154 153 152 151 150 149 148 147 146 145 144 143 142 141 140 139 138 137 136 135 134 133 132 131 130 129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106
24. Cape Breton Slope to South.				153 152 151 150 149 148 147 146 145 144 143 142 141 140 139 138 137 136 135 134 133 132 131 130 129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106
25. Cape Breton Slope to North West.				152 151 150 149 148 147 146 145 144 143 142 141 140 139 138 137 136 135 134 133 132 131 130 129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106
26. Cape Breton Slope to South.				151 150 149 148 147 146 145 144 143 142 141 140 139 138 137 136 135 134 133 132 131 130 129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106
27. Cape Breton Slope to North West.				150 149 148 147 146 145 144 143 142 141 140 139 138 137 136 135 134 133 132 131 130 129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106
28. Cape Breton Slope to South.				149 148 147 146 145 144 143 142 141 140 139 138 137 136 135 134 133 132 131 130 129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106
29. Cape Breton Slope to North West.				148 147 146 145 144 143 142 141 140 139 138 137 136 135 134 133 132 131 130 129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106
30. Cape Breton Slope to South.				147 146 145 144 143 142 141 140 139 138 137 136 135 134 133 132 131 130 129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106
31. Cape Breton Slope to North West.				146 145 144 143 142 141 140 139 138 137 136 135 134 133 132 131 130 129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106
32. Cape Breton Slope to South.				145 144 143 142 141 140 139 138 137 136 135 134 133 132 131 130 129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106
33. Cape Breton Slope to North West.				144 143 142 141 140 139 138 137 136 135 134 133 132 131 130 129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106
34. Cape Breton Slope to South.				143 142 141 140 139 138 137 136 135 134 133 132 131 130 129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106
35. Cape Breton Slope to North West.				142 141 140 139 138 137 136 135 134 133 132 131 130 129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106
36. Cape Breton Slope to South.				141 140 139 138 137 136 135 134 133 132 131 130 129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106
37. Cape Breton Slope to North West.				140 139 138 137 136 135 134 133 132 131 130 129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106
38. Cape Breton Slope to South.				139 138 137 136 135 134 133 132 131 130 129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106
39. Cape Breton Slope to North West.				138 137 136 135 134 133 132 131 130 129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106
40. Cape Breton Slope to South.				137 136 135 134 133 132 131 130 129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106
41. Cape Breton Slope to North West.				136 135 134 133 132 131 130 129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106
42. Cape Breton Slope to South.				135 134 133 132 131 130 129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106
43. Cape Breton Slope to North West.				134 133 132 131 130 129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106
44. Cape Breton Slope to South.				133 132 131 130 129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106
45. Cape Breton Slope to North West.				132 131 130 129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106
46. Cape Breton Slope to South.				131 130 129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106
47. Cape Breton Slope to North West.				130 129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106
48. Cape Breton Slope to South.				129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106
49. Cape Breton Slope to North West.				128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106
50. Cape Breton Slope to South.				127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106
51. Cape Breton Slope to North West.				126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106
52. Cape Breton Slope to South.				125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106
53. Cape Breton Slope to North West.				124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106
54. Cape Breton Slope to South.				123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106
55. Cape Breton Slope to North West.				122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106
56. Cape Breton Slope to South.				121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106
57. Prunus Cerasus, fruit ripe.				120 119 118 117 116 115 114 113 112 111 110 109 108 107 106
58. Prunus Cerasus, fruit ripe.				119 118 117 116 115 114 113 112 111 110 109 108 107 106
59. Prunus domestica.				118 117 116 115 114 113 112 111 110 109 108 107 106
60. Pyrus Malus.				117 116 115 114 113 112 111 110 109 108 107 106
61. Syringa vulgaris.				116 115 114 113 112 111 110 109 108 107 106
62. Tritium repens.				115 114 113 112 111 110 109 108 107 106
63. Trifolium pratense.				114 113 112 111 110 109 108 107 106
64. Pileum pratense.				113 112 111 110 109 108 107 106
65. Solanum tuberosum.				112 111 110 109 108 107 106
66. Potentilla officinalis.				111 110 109 108 107 106
67. Ranunculus acris.				110 109 108 107 106
68. Ranunculus acris.				109 108 107 106
69. Ranunculus acris.				108 107 106
70. Ranunculus acris.				107 106

NOVA SCOTIA, 1922—MACKAY

THE PHENOLOGY OF NOVA SCOTIA 1922 (CONTINUED)

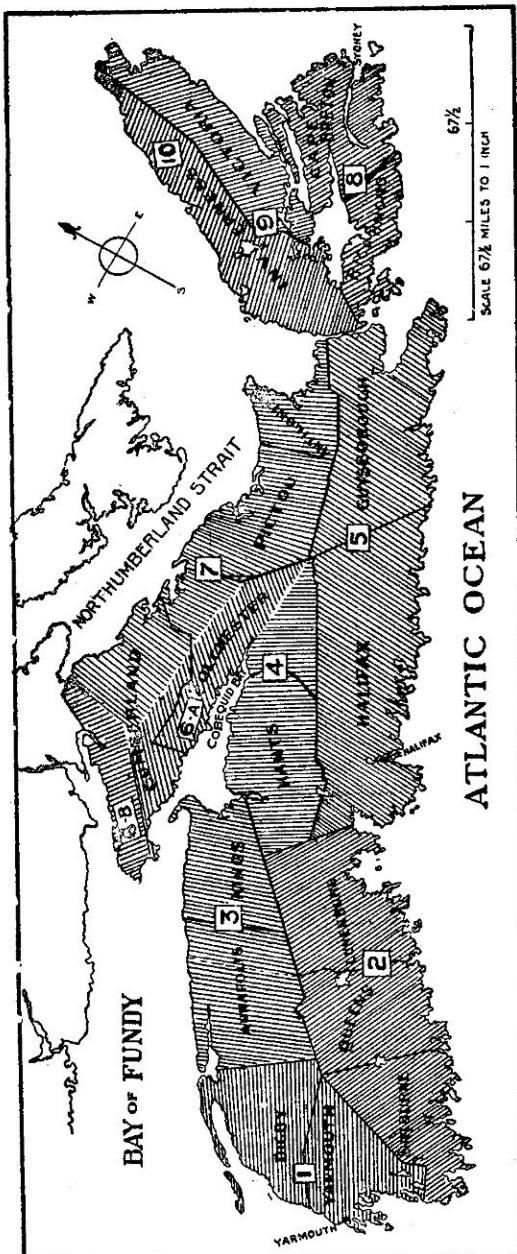
THE PHENOLOGY OF NOVA SCOTIA 1922 (CONTINUED)

PHENOLOGICAL OBSERVATIONS IN

WHEN FIRST SEEN		YEAR 1922											
OBSERVATION STATIONS													
AVERAGE Dates		OBSERVATION STATIONS											
1. Varmouth & Digsby	2. Shelds, Queens, N. S.	3. Amherstburg, Queens, N. S.	4. Hants & Col. South	5. Cobiquid Bay.	6a. Cobiquid Slope to South.	6b. Chirocco Slope to North.	7. Northumbeland & Capes Slope to South.	8. Richmondtown & Cape Slope to North.	9. & 10. Brs. D'Or & Richmondtown & Cape Slope to North.	11. Arthurs, Queens, N. S.	12. Lumsdenburg, Queens, N. S.	13. Counties, N. S.	14. Atmoren & Digsby
8G	83	72	77	75	84	84	76	87	67	79	82	82	79
79	86	83	103	88	92	102	105	92	332	83	82	82	82
77	77	73	82	76	76	84	89	93	81	84	84	84	84
81	78	83	94	85	83	84	85	93	61	84	85	85	85
83	78	83	111	139	124	133	126	140	125	86	86	86	86
120	98	114	105	127	129	127	121	124	124	124	124	124	124
114	105	127	138	129	125	124	126	127	124	124	124	124	124
121	126	125	136	125	135	135	138	138	145	142	145	142	145
134	133	125	152	152	135	135	138	138	125	128	126	128	126
117	99	127	123	134	134	134	134	134	146	161	160	149	162
146	144	146	148	154	144	144	144	144	139	139	139	139	139
147	135	137	137	146	139	139	139	139	126	126	126	126	126
138	135	124	133	133	139	139	139	139	141	141	141	141	141
143	140	142	155	131	124	124	124	124	141	141	141	141	141
131	137	125	128	128	145	145	145	145	156	163	163	163	163
135	152	137	153	119	167	167	167	167	148	134	151	146	146
133	114	117	121	131	132	132	132	132	122	122	122	122	122
130	90	94	107	105	105	105	105	105	99	110	110	110	110
146	102	107	122	116	122	122	122	122	119	123	123	123	123

THE LOCAL COMPILERS FOR EACH REGION, 1922.

Region No.	Region No.
I.	Miss Helena Hicks,
II.	Miss E. Constance Andrews.
III.	Miss Aunimae Bill.
IV.	Miss Una E. Jenkyns.
V.	Miss M. Martin.
VI.	Miss Alice Soley.
VII.	Miss Christine Gilchrist.
VIII.	Miss Blanche Boutillier.
IX.	Miss Rebecca M. Dunn.
X.	{



THE TEN PHENOLOGICAL REGIONS OF NOVA SCOTIA

PHENOLOGICAL OBSERVATIONS IN

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THUNDERSTORMS—PHENOLOGICAL OBSERVATIONS, NOVA SCOTIA, 1922

The indices indicate the number of stations from which the Thunderstorms were reported on the day of the year specified.

OBSERVATION REGIONS

NOVA SCOTIA, 1922—MACKAY

THUNDERSTORMS—PHENOLOGICAL OBSERVATIONS, NOVA SCOTIA, 1922

The indices indicate the number of stations from which the Thunderstorms were reported on the day of the year specified.

OBSERVATIONS REGIONS

		OBSERVATIONS REGIONS																								
		1. Yarmouth and Digby Counties, N. S.		2. Shelburne, Queens & Lunenburg Co., N. S.		3. Annapolis & Kings Counties, N. S.		4. Hants & Colchester So. of Cobequid Bay		5. Halifax & Guysborough Counties, N. S.		6a. Cobequid Slope to South		6b. Chignecto Slope to North West		7. Northumberland Straits Slope		8. Richmond & Cape Breton Co., N. S.		9. & 10. Bras D'Or & Inverness Slopes, N.S.		Year 1922				
146 ^a	146 ³	145	145 ^a	146	146	145	145	145 ^a	145	145 ^a	146 ^a	151	151	152 ^a	152 ^a	153 ^a	153 ^a	154	154	155	155	156	156	157 ^a		
157	158 ²	158 ²	158 ²	158 ²	158 ²	157	158	158	158	158 ^a	158 ^a	158 ^a	158 ^a	158 ^a	158 ^a	158 ^a	158 ^a	158 ^a	158 ^a	158 ^a	158 ^a	158 ^a	158 ^a	158 ^a		
159	160 ³	160 ⁴	160 ⁴	160	160	161	161	160 ^a	160 ^a	160 ^a	161 ^a	161 ^a	161 ^a	161 ^a	161 ^a	161 ^a	161 ^a	161 ^a	161 ^a	161 ^a	161 ^a	161 ^a	161 ^a	159		
160	160 ³	160 ⁴	160 ⁴	160	160	161	161	160 ^a	160 ^a	160 ^a	161 ^a	161 ^a	161 ^a	161 ^a	161 ^a	161 ^a	161 ^a	161 ^a	161 ^a	161 ^a	161 ^a	161 ^a	161 ^a	160 ³⁵		
161	163 ⁶	163 ²	163 ¹²	163 ¹²	163 ¹²	168	168	163 ^a	163 ^a	163 ^a	166	166	166	166	166	166	166	166	166	166	166	166	166	166	163 ³⁹	
162	164	171 ³	171	171	171	175	175	176	176	176	169	169	171 ^a	171 ^a	173	173	173	173	173	173	173	173	173	173	173	162
163	176	176	176	176	176	175	175	177	177	177	179	179	203	203	228	228	230	230	230	230	230	230	230	230	230	230 ^a
164	177	177	177	177	177	175	175	176	176	176	229	229	231	231	259	259	266	266	278	278	278	278	278	278	278	164 ³
165	178	178	178	178	178	176	176	177	177	177	230	230	231	231	259	259	266	266	281	281	281	281	281	281	281	164 ³
166	179	179	179	179	179	177	177	178	178	178	231	231	231	231	259	259	266	266	281	281	281	281	281	281	281	164 ³
167	180	180	180	180	180	178	178	179	179	179	230	230	231	231	259	259	266	266	281	281	281	281	281	281	281	164 ³
168	181	181	181	181	181	179	179	180	180	180	231	231	231	231	259	259	266	266	281	281	281	281	281	281	281	164 ³
169	182	182	182	182	182	180	180	181	181	181	230	230	231	231	259	259	266	266	281	281	281	281	281	281	281	164 ³
170	183	183	183	183	183	181	181	182	182	182	231	231	231	231	259	259	266	266	281	281	281	281	281	281	281	164 ³
171	184	184	184	184	184	182	182	183	183	183	230	230	231	231	259	259	266	266	281	281	281	281	281	281	281	164 ³
172	185	185	185	185	185	183	183	184	184	184	231	231	231	231	259	259	266	266	281	281	281	281	281	281	281	164 ³
173	186	186	186	186	186	184	184	185	185	185	230	230	231	231	259	259	266	266	281	281	281	281	281	281	281	164 ³
174	187	187	187	187	187	185	185	186	186	186	231	231	231	231	259	259	266	266	281	281	281	281	281	281	281	164 ³
175	188	188	188	188	188	186	186	187	187	187	230	230	231	231	259	259	266	266	281	281	281	281	281	281	281	164 ³
176	189	189	189	189	189	187	187	188	188	188	231	231	231	231	259	259	266	266	281	281	281	281	281	281	281	164 ³
177	190	190	190	190	190	188	188	189	189	189	230	230	231	231	259	259	266	266	281	281	281	281	281	281	281	164 ³
178	191	191	191	191	191	189	189	190	190	190	231	231	231	231	259	259	266	266	281	281	281	281	281	281	281	164 ³
179	192	192	192	192	192	190	190	191	191	191	230	230	231	231	259	259	266	266	281	281	281	281	281	281	281	164 ³
180	193	193	193	193	193	191	191	192	192	192	231	231	231	231	259	259	266	266	281	281	281	281	281	281	281	164 ³
181	194	194	194	194	194	192	192	193	193	193	230	230	231	231	259	259	266	266	281	281	281	281	281	281	281	164 ³
182	195	195	195	195	195	193	193	194	194	194	231	231	231	231	259	259	266	266	281	281	281	281	281	281	281	164 ³
183	196	196	196	196	196	194	194	195	195	195	230	230	231	231	259	259	266	266	281	281	281	281	281	281	281	164 ³
184	197	197	197	197	197	195	195	196	196	196	231	231	231	231	259	259	266	266	281	281	281	281	281	281	281	164 ³
185	198	198	198	198	198	196	196	197	197	197	230	230	231	231	259	259	266	266	281	281	281	281	281	281	281	164 ³
186	199	199	199	199	199	197	197	198	198	198	231	231	231	231	259	259	266	266	281	281	281	281	281	281	281	164 ³
187	200	200	200	200	200	198	198	199	199	199	230	230	231	231	259	259	266	266	281	281	281	281	281	281	281	164 ³
188	201	201	201	201	201	199	199	200	200	200	231	231	231	231	259	259	266	266	281	281	281	281	281	281	281	164 ³
189	202	202	202	202	202	200	200	201	201	201	230	230	231	231	259	259	266	266	281	281	281	281	281	281	281	164 ³
190	203	203	203	203	203	201	201	202	202	202	231	231	231	231	259	259	266	266	281	281	281	281	281	281	281	164 ³
191	204	204	204	204	204	202	202	203	203	203	230	230	231	231	259	259	266	266	281	281	281	281	281	281	281	164 ³
192	205	205	205	205	205	203	203	204	204	204	231	231	231	231	259	259	266	266	281	281	281	281	281	281	281	164 ³
193	206	206	206	206	206	204	204	205	205	205	230	230	231	231	259	259	266	266	281	281	281	281	281	281	281	164 ³
194	207	207	207	207	207	205	205	206	206	206	231	231	231	231	259	259	266	266	281	281	281	281	281	281	281	164 ³
195	208	208	208	208	208	206	206	207	207	207	230	230	231	231	259	259	266	266	281	281	281	281	281	281	281	164 ³
196	209	209	209	209	209	207	207	208	208	208	231	231	231	231	259	259	266	266	281	281	281	281	281	281	281	164 ³
197	210	210	210	210	210	208	208	209	209	209	230	230	231	231	259	259	266	266	281	281	281	281	281	281	281	164 ³
198	211	211	211	211	211	209	209	210	210	210	231	231	231	231	259	259	266	266	281	281	281	281	281	281	281	164 ³
199	212	212	212	212	212	210	210	211	211	211	230	230	231	231	259	259	266	266	281	281	281	281	281	281	281	164 ³
200	213	213	213	213	213	211	211	212	212	212	231	231	231	231	259	259	266	266	281	281	281	281	281	281	281	164 ³
201	214	214	214	214	214	212	212	213	213	213	230	230	231	231	259	259	266	266	281	281	281	281	281	281	281	164 ³
202	215	215	215	215	215	213	213	214	214	214	231	231	231	231	259	259	266	266	281	281	281	281	281	281	281	164 ³
203	216	216	216	216	216	214	214	215	215	215	230	230	231	231	259	259	266	266	281	281	281	281	281	281	281	164 ³
204	217	217	217	217	217	215	215	216	216	216	231	231	231	231	259	259	266	266	281	281	28					