

THE PHENOLOGY OF NOVA SCOTIA, 1917—BY A. H.
MACKAY, LL. D.

(Read by title 14 May, 1918.)

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 compiled from 186 of the best schedules out of the 450 sent in. The selections were made and compiled under the direction of Mr. H. R. Shinner, B. A. and Miss M. G. McLeod, of the Education Department.

The schedules for each year are carefully bound up in a large annual volume which is 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.

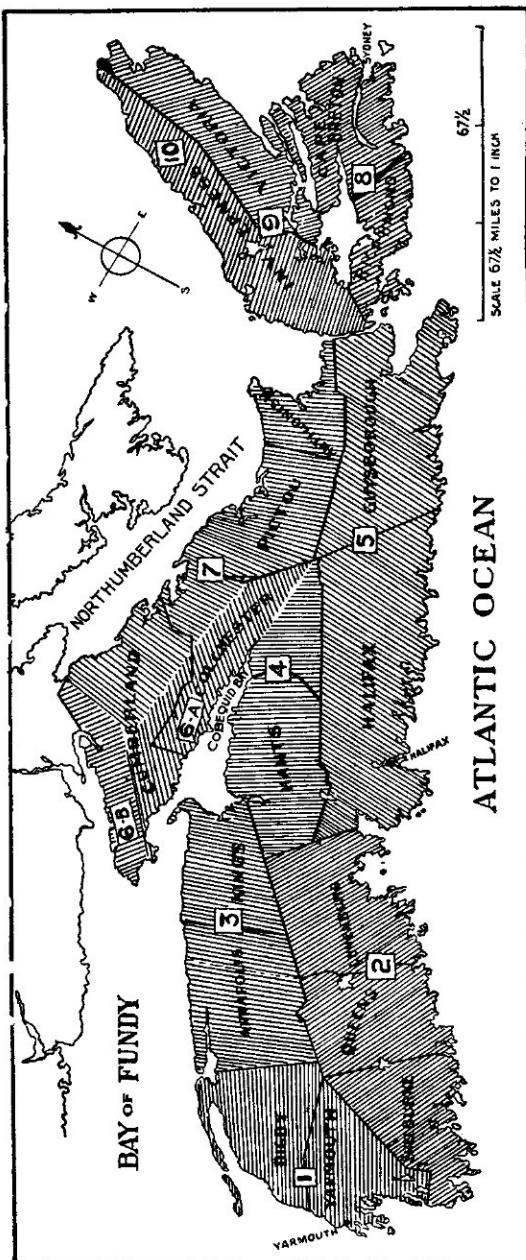
The Province is divided into its main climate slopes or regions not always coterminous with the boundaries of counties. Slopes, especially those to the coast, are subdivided into belts, such as (a) the coast belt, (b) the low inland belt, and (c) the high inland belt, as below:—

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.	Cobeguid Slope (to the south),	" " "
VI.B.	Chignecto Slope (to the northwest)	" " "
VII.	Northumberland Straits Slope (to the n'h)	" " "
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 on the next page.

THE LOCAL COMPILERS FOR EACH REGION, 1917.

Region No.	Region No.
I.	Miss Helen Pitman, Brooklyn, Yar. Co.
II.	Mr. G. L. Leslie, Mahone, Lun. Co.
III.	Miss Anna R. McGregor, Kentville, Kings Co.
IV.	Mr. R. H. Wetmore, Truro, Col. Co.
V.	Miss Katherine Manson, Dartmouth, Hfx. Co.
VI.	Mr. P. N. Bargell, Great Village, Col. Co.
VI.a	Mr. R. N. Bargell, Great Village, Col. Co.
VI.b	Miss E. A. O'Regan, Parrsboro, Cumb. Co.
VII.	Miss Flora Zwicker, Pugwash, Cumb. Co.
VIII.	Mr. Dara Cochran, Sydney, C. B.
IX & X.	Mr. L. A. DeWolfe, Truro, Col. Co.



THE TEN PHENOLOGICAL REGIONS OF NOVA SCOTIA.

NOVA SCOTIA, 1917.—MACKAY.

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THE PHENOLOGY OF NOVA SCOTIA, 1917.

[Compiled from the best 186 out of 450 local observation schedules.]

THE PHENOLOGY OF NOVA SCOTIA, 1917.—Continued.

WHEN FIRST SEEN		YEAR 1917.		OBSERVATION REGIONS.		OBSERVATION REGIONS.		PHENOLOGICAL OBSERVATIONS IN	
WHEN BECOMING COMMON.									
1. Yarmouth and Digby and I.undemburgo and Quebecs	Average Dates.	154 ^a	154 ^b	155 ^c	156 ^d	156 ^e	156 ^f	158 ^g	158 ^h
2. Sheldene, Quebecs and I.undemburgo and Quebecs	Average Dates.	154 ^a	154 ^b	155 ^c	156 ^d	156 ^e	156 ^f	158 ^g	158 ^h
3. Annapolis and Kings Colchester	Average Dates.	154 ^a	154 ^b	155 ^c	156 ^d	156 ^e	156 ^f	158 ^g	158 ^h
4. Hants and Colchester	Average Dates.	154 ^a	154 ^b	155 ^c	156 ^d	156 ^e	156 ^f	158 ^g	158 ^h
5. Halifax and Gysbros	Average Dates.	154 ^a	154 ^b	155 ^c	156 ^d	156 ^e	156 ^f	158 ^g	158 ^h
6a. Chignecto and Cob- Coast Slope	Average Dates.	154 ^a	154 ^b	155 ^c	156 ^d	156 ^e	156 ^f	158 ^g	158 ^h
6b. Chignecto and Cob- Coast Slope	Average Dates.	154 ^a	154 ^b	155 ^c	156 ^d	156 ^e	156 ^f	158 ^g	158 ^h
7. Northumberland and Strait of Cobs	Average Dates.	154 ^a	154 ^b	155 ^c	156 ^d	156 ^e	156 ^f	158 ^g	158 ^h
8. Richibucto and Cobs	Average Dates.	154 ^a	154 ^b	155 ^c	156 ^d	156 ^e	156 ^f	158 ^g	158 ^h
9. e. I.undemburgo and Quebecs	Average Dates.	154 ^a	154 ^b	155 ^c	156 ^d	156 ^e	156 ^f	158 ^g	158 ^h
10. Brns d'Or and Quebecs	Average Dates.	154 ^a	154 ^b	155 ^c	156 ^d	156 ^e	156 ^f	158 ^g	158 ^h
11. Yarmouth and Digby and I.undemburgo and Quebecs	Average Dates.	154 ^a	154 ^b	155 ^c	156 ^d	156 ^e	156 ^f	158 ^g	158 ^h
12. Sheldene, Quebecs and I.undemburgo and Quebecs	Average Dates.	154 ^a	154 ^b	155 ^c	156 ^d	156 ^e	156 ^f	158 ^g	158 ^h
13. Annapolis and Kings Colchester	Average Dates.	154 ^a	154 ^b	155 ^c	156 ^d	156 ^e	156 ^f	158 ^g	158 ^h
14. Hants and Colchester	Average Dates.	154 ^a	154 ^b	155 ^c	156 ^d	156 ^e	156 ^f	158 ^g	158 ^h
15. Halifax and Gysbros	Average Dates.	154 ^a	154 ^b	155 ^c	156 ^d	156 ^e	156 ^f	158 ^g	158 ^h
16. Richibucto and Cobs	Average Dates.	154 ^a	154 ^b	155 ^c	156 ^d	156 ^e	156 ^f	158 ^g	158 ^h
17. Northumberland and Strait of Cobs	Average Dates.	154 ^a	154 ^b	155 ^c	156 ^d	156 ^e	156 ^f	158 ^g	158 ^h
18. Bretton and Cape Sable	Average Dates.	154 ^a	154 ^b	155 ^c	156 ^d	156 ^e	156 ^f	158 ^g	158 ^h
19. e. I.undemburgo and Quebecs	Average Dates.	154 ^a	154 ^b	155 ^c	156 ^d	156 ^e	156 ^f	158 ^g	158 ^h
20. Prunus Pennsylvania Pennsylvania (Fruit ripe)	Average Dates.	154 ^a	154 ^b	155 ^c	156 ^d	156 ^e	156 ^f	158 ^g	158 ^h
21. Vaccinium Can. and Penn Vaccinium Can. and Penn (Fruit ripe)	Average Dates.	154 ^a	154 ^b	155 ^c	156 ^d	156 ^e	156 ^f	158 ^g	158 ^h
22. R. repens	Average Dates.	154 ^a	154 ^b	155 ^c	156 ^d	156 ^e	156 ^f	158 ^g	158 ^h
23. Ranunculus acris	Average Dates.	154 ^a	154 ^b	155 ^c	156 ^d	156 ^e	156 ^f	158 ^g	158 ^h
24. R. erythrocarpum	Average Dates.	154 ^a	154 ^b	155 ^c	156 ^d	156 ^e	156 ^f	158 ^g	158 ^h
25. Rhododendron Rhodora	Average Dates.	154 ^a	154 ^b	155 ^c	156 ^d	156 ^e	156 ^f	158 ^g	158 ^h
26. Rhododendron Rhodora	Average Dates.	154 ^a	154 ^b	155 ^c	156 ^d	156 ^e	156 ^f	158 ^g	158 ^h
27. Cornus Canadensis (Fruit ripe)	Average Dates.	154 ^a	154 ^b	155 ^c	156 ^d	156 ^e	156 ^f	158 ^g	158 ^h
28. Cornus Canadensis (Fruit ripe)	Average Dates.	154 ^a	154 ^b	155 ^c	156 ^d	156 ^e	156 ^f	158 ^g	158 ^h
29. Trillium Americana	Average Dates.	154 ^a	154 ^b	155 ^c	156 ^d	156 ^e	156 ^f	158 ^g	158 ^h
30. Clintonia borealis	Average Dates.	154 ^a	154 ^b	155 ^c	156 ^d	156 ^e	156 ^f	158 ^g	158 ^h
31. Calla palustris	Average Dates.	154 ^a	154 ^b	155 ^c	156 ^d	156 ^e	156 ^f	158 ^g	158 ^h
32. Cyperinus acutifolium	Average Dates.	154 ^a	154 ^b	155 ^c	156 ^d	156 ^e	156 ^f	158 ^g	158 ^h
33. Sisyrinchium angustifolium	Average Dates.	154 ^a	154 ^b	155 ^c	156 ^d	156 ^e	156 ^f	158 ^g	158 ^h
34. Linnaea borealis	Average Dates.	154 ^a	154 ^b	155 ^c	156 ^d	156 ^e	156 ^f	158 ^g	158 ^h
35. Kalmia glauca	Average Dates.	154 ^a	154 ^b	155 ^c	156 ^d	156 ^e	156 ^f	158 ^g	158 ^h
36. Kalmia angustifolia	Average Dates.	154 ^a	154 ^b	155 ^c	156 ^d	156 ^e	156 ^f	158 ^g	158 ^h
37. Crataegus oxyacantha	Average Dates.	154 ^a	154 ^b	155 ^c	156 ^d	156 ^e	156 ^f	158 ^g	158 ^h
38. Crataegus coccinea, etc.	Average Dates.	154 ^a	154 ^b	155 ^c	156 ^d	156 ^e	156 ^f	158 ^g	158 ^h
39. Iris versicolor	Average Dates.	154 ^a	154 ^b	155 ^c	156 ^d	156 ^e	156 ^f	158 ^g	158 ^h
40. Chrysanthemum Leucanthemum	Average Dates.	154 ^a	154 ^b	155 ^c	156 ^d	156 ^e	156 ^f	158 ^g	158 ^h
41. Nuphar advena	Average Dates.	154 ^a	154 ^b	155 ^c	156 ^d	156 ^e	156 ^f	158 ^g	158 ^h
42. Rubus strigosus	Average Dates.	154 ^a	154 ^b	155 ^c	156 ^d	156 ^e	156 ^f	158 ^g	158 ^h
43. Rubus strigosus (Fruit ripe)	Average Dates.	154 ^a	154 ^b	155 ^c	156 ^d	156 ^e	156 ^f	158 ^g	158 ^h

THE PHENOLOGY OF NOVA SCOTIA, 1917.—Continued.

WHEN FIRST SEEN.	OBSERVATION REGIONS.	YEAR 1917.		WHEN BECOMING COMMON.
84	1. Yarmouth and Digby			
85	2. Shelburne, Queens and Lunenburg			
86	3. Annapolis and Kings			
87	4. Hants and Colchester.			
88	5. Halifax and Guysboro			
89	6a. Chignecto and Cob-equin Slope			
90	6b. Chignecto and Cob-equin Slope			
91	7. Northumberland Straits Slope			
92	8. Richmonnd and Cape Breton			
93	9 & 10. Bras d'Or and Inverness Slope.			
94	Average Dates.			
95	Day of the year corresponding to the last day of each month.			
96	Jan. 31	July. 212		
97	Feb. 59	Aug. 243		
98	March. 90	Sept. 273		
99	April. 120	Oct. 304		
100	May. 151	Nov. 334		
101	June. 181	Dec. 365		
102	For leap year add one to each except January.			
103	83. Melospiza fasciata (North)			
104	84. Turdus migratorius (North)			
105	85. Junco hemaius (North)			
106	86. Actitis macularia (North)			
107	87. Sturnella magna (North)			
108	88. Cervio Alcyon (North)			
109	89. Dendroica coronata (North)			
110	90. Dendroica aestuata (North)			
111	91. Zonotrichia albula (North)			
112	92. Trochilus columbi (North)			
113	93. Tyrannus Carolinensis (North)			
114	94. Dolichonyx oryzivorus (North)			
115	95. Spizella breweri (North)			
116	96. Setophaga ruticilla (North)			
117	97. Ampelis cedrorum (North)			
118	98. Chordeiles Virginianus (North)			
119	99. First piping of frogs			
120	100. First appearance of snakes			
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THUNDERSTORMS—PHENOLOGICAL OBSERVATIONS, NOVA SCOTIA, 1917.

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

OBSERVATION REGIONS.

402 PHENOLOGICAL OBSERVATIONS IN N. S., 1917.—MACKAY.

THUNDERSTORMS PHENOLOGICAL OBSERVATIONS, NOVA SCOTIA, 1917.

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

OBSERVATION REGIONS.