

THE PHENOLOGY OF NOVA SCOTIA, 1912.—BY A. H.
MACKAY, LL. D.

(Read by title, 12 May, 1913.)

These phenological observations were made in the schools of the province of Nova Scotia as a part of the Nature Study work prescribed. The pupils report or bring in the flowering or other specimens to the teachers when they are first observed. The teachers record the first observation and observer, and vouch for the accurate naming of the species. The schedules from 200 of the best schools form the material of the following system of average dates (phenochrons) for the ten biological regions of the Province, and the phenochrons of the Province as a whole. The compilation of the 200 schedules was done by Walter M. Billman, M. A.

Regional phenochrons starred (*) are from supernumerary schedules which are not included in the general compilation, and thus do not affect the more general phenochrons. The nomenclature followed is that of Spotton or Gray.

THE PHENOLOGY OF NOVA SCOTIA 1912.

[Compiled from over 200 local observation schedules.]

WHEN FIRST SIGHTED.		YEAR 1912.		WHEN BECOMING COMMON.	
OBSERVATION REGIONS.				OBSERVATION REGIONS.	
1. Yarmouth and Digby 2. Sheldene, Queens and Lunenburg 3. Amnapolis and Kings 4. Hants and South Colchester and Kings 5. Halifax and Gyaspodeso 6. S. Cobiquid Slope, (S. Cum. & Col.) 7. N. Cum. and Gyaspodeso 8. Richmondtown and Cape Bretton 9. Richmondtown and Cape Bretton 10. Inverness Slope to Gulf 11. Yarmouth and Digby 12. Sheldene, Queens and Lunenburg 13. Amnapolis and Kings 14. Hants and South Colchester and Kings 15. Halifax and Gyaspodeso 16. S. Cobiquid Slope, (S. Cum. & Col.) 17. N. Cum. and Gyaspodeso 18. Richmondtown and Cape Bretton 19. Richmondtown and Cape Bretton 20. Inverness Slope to Gulf 21. Yarmouth and Digby 22. Sheldene, Queens and Lunenburg 23. Amnapolis and Kings 24. Hants and South Colchester and Kings 25. Halifax and Gyaspodeso 26. S. Cobiquid Slope, (S. Cum. & Col.) 27. N. Cum. and Gyaspodeso 28. Richmondtown and Cape Bretton 29. Richmondtown and Cape Bretton 30. Inverness Slope to Gulf	Day of the year corresponding to the last day of each month.		Day of the year corresponding to the last day of each month.		
Jan. 31	109	July 212	109	July 212	109
Feb. 59	107	Aug. 243	114	Aug. 243	114
March 90	101	Sep. 273	127	Sep. 273	127
April 120	107	Oct. 304	136	Oct. 304	136
May 151	125	Nov. 334	147	Nov. 334	147
June 181	129	Dec. 365	158	Dec. 365	158
		For leap years add one to each except January.			
		Average Dates			
		1. Alnus incana, Wild.....	116	8	110
		2. Populus tremuloides.....	128	5	123
		3. Epipactis palustris.....	116	10	110
		4. Equisetum arvense.....	134	3	138
		5. Smilacina Canadensis.....	138	2	132
		6. Viola Blanda.....	132	13	127
		7. Vitis rotundifolia.....	131	13	130
		8. Viola palmata, ciliolata.....	134	8	132
		9. Hepatica triloba, etc.....	138	6	130
		10. Acer rubrum.....	136	5	143
		11. Frangula Virginiana.....	136	10	131
		12. Malus sylvestris.....	172	4	173
		13. Taraxacum officinale.....	139	0	135
		14. Erythronium Americanum.....	144	6	142
		15. Coptis trifolia.....	140	1	140
		16. Claytonia Caroliniana.....	137	0	137
		17. Claytonia Glechoma.....	146	1	140
		18. Anechanthera Canadensis.....	144	8	145

PHENOLOGICAL OBSERVATIONS IN

WHEN FIRST SEEN.		YEAR 1912.		OBSERVATION REGIONS.		WHEN BECOMING COMMON.		OBSERVATION REGIONS.	
1. Yarmouth and Digby and Lunenburg and Queens and Cumberland and Digby	Average Dates	227.5	180	200.7	18	Amelanchier Canadensis fruit ripe.	227.5	147	141
2. Sheldburne, Queens and Cumberland and Digby	Average Dates	193	210	193	19	Prunus Pensylvanica fruit ripe	148.8	152	141
3. Amherst and Kings Colchester and South Colchester and Kings	Average Dates	146	141	150	20	Vaccinium Can. and Penn. fruit ripe	213.0	145	141
4. Hants and Kings Colchester and South Colchester and Kings	Average Dates	146	141	155	21	Vaccinium Can. and Penn. fruit ripe	150.0	145	142
5. Hants and Kings Colchester and South Colchester and Kings	Average Dates	146	141	155	22	Ranunculus acris	211.2	152	146
6. S. Cumberland Slope, (S. Cumb & Col.)	Average Dates	146	141	155	23	Ranunculus acris	157.8	102	148
7. N. Cumb & Col. (S. Cumb & Col.)	Average Dates	146	141	155	24	Ranunculus acris	158.1	102	148
8. Hants and Kings Colchester and South Colchester and Kings	Average Dates	146	141	155	25	Trillium erythrocarpum	148.8	152	147
9. Bras d'Or Slope, Inly. (S. Cumb & Col.)	Average Dates	146	141	155	26	Rhododendron Rhodora	151.7	154	152
10. Inlymerses Slope to and Victoria and Antigonish and Digby	Average Dates	146	141	155	27	Cornus Canadensis	155.8	150	152
11. Yarmouth and Kings Colchester and South Colchester and Kings	Average Dates	146	141	155	28	fruit ripe	222.0	*144	152
12. Sheldburne, Queens and Cumberland and Digby	Average Dates	146	141	155	29	Trifolium Americana	153.6	158	152
13. Hants and Kings Colchester and South Colchester and Kings	Average Dates	146	141	155	30	Clintonia borealis	157.6	159	154
14. Hants and Kings Colchester and South Colchester and Kings	Average Dates	146	141	155	31	Galla palustris	163.5	155	159
15. Hants and Kings Colchester and South Colchester and Kings	Average Dates	146	141	155	32	Cypripedium acaule	161.5	161	157
16. Hants and Kings Colchester and South Colchester and Kings	Average Dates	146	141	155	33	Sisyrinchium angustifol.	164.3	166	168
17. Hants and Kings Colchester and South Colchester and Kings	Average Dates	146	141	155	34	Linnæa borealis	170.9	171	165
18. Hants and Kings Colchester and South Colchester and Kings	Average Dates	146	141	155	35	Kalmia glauca	157.7	169	156
19. Hants and Kings Colchester and South Colchester and Kings	Average Dates	146	141	155	36	Kalmia angustifolia	165.6	166	165
20. Hants and Kings Colchester and South Colchester and Kings	Average Dates	146	141	155	37	Cratagus oxyacantha	164.4	171	170
21. Hants and Kings Colchester and South Colchester and Kings	Average Dates	146	141	155	38	Cratagus oxyacantha	164.2	174	159
22. Hants and Kings Colchester and South Colchester and Kings	Average Dates	146	141	155	39	Cratagus oxyacantha	163.0	171	163
23. Hants and Kings Colchester and South Colchester and Kings	Average Dates	146	141	155	40	Iris versicolor	170.0	171	169
24. Hants and Kings Colchester and South Colchester and Kings	Average Dates	146	141	155	41	Chrysanthemum Leucanth.	167.7	169	166
25. Hants and Kings Colchester and South Colchester and Kings	Average Dates	146	141	155	42	Nuphar advena	165.10	169	168
26. Hants and Kings Colchester and South Colchester and Kings	Average Dates	146	141	155	43	Rubus strigosus	164.9	177	164
27. Hants and Kings Colchester and South Colchester and Kings	Average Dates	146	141	155	44		165	169	163

202.7	43	<i>Rubus strigosus</i> fruit ripe.....	212.7	198.	*104.	207.
181	44	<i>Rhamnus Cristata</i> —falli.....	217.7	179.	177.	163.
169	166	<i>Rubus villosus</i>	175.6	175.	177.	163.
228	250	"	175.6	167.	177.	179.
176	176	<i>Sarracenia purpurea</i>	174.5	174.	172.	173.
176	176	<i>Brunella vulgaris</i>	173.5	173.	174.	173.
176	176	"	173.5	176.	177.	173.
176	176	<i>Rosa lucida</i>	173.5	176.	177.	173.
170	170	<i>Leontodon autumnale</i>	173.1	182.	183.	183.
174	174	"	173.1	170.	175.	176.
166	166	<i>Linnaria vulgaris</i>	172.6	161.	172.	172.
170	170	"	172.6	161.	172.	172.
170	170	Trees appear green.....	147.0	150.	151.	144.
170	170	<i>Ribes rubrum</i> (cultivated).....	147.7	152.	141.	143.
170	170	"	147.7	152.	141.	143.
170	170	(fruit ripe).....	203.0	217.	180.	206.
170	170	<i>R. nigrum</i> (cultivated).....	150.3	154.	143.	146.
170	170	"	150.3	154.	153.	150.
170	170	(fruit ripe).....	214.7	200.	142.	149.
170	170	<i>Prunus Cerasus</i>	151.1	156.	147.	155.
170	170	"	151.1	156.	151.	148.
170	170	(fruit ripe).....	*181.	181.	148.	157.
170	170	<i>Prunus domestica</i>	150.7	154.	149.	149.
170	170	"	150.7	154.	149.	149.
170	170	<i>Fayrus Malus</i>	154.5	159.	152.	154.
170	170	"	154.5	159.	154.	154.
170	170	<i>Swertia vulgaria</i>	161.7	165.	157.	155.
170	170	"	161.7	165.	156.	157.
170	170	<i>Trifolium repens</i>	167.2	161.	164.	163.
170	170	"	167.2	161.	164.	163.
170	170	<i>T. pratense</i>	168.7	169.	169.	168.
170	170	"	168.7	169.	169.	168.
170	170	<i>Phleum pratense</i>	166.7	175.	165.	164.
170	170	"	166.7	175.	165.	164.
170	170	<i>Solanum tuberosum</i>	190.7	182.	187.	193.
170	170	"	190.7	182.	187.	193.
170	170	Ploughing (first of season).....	128.3	118.	125.	124.
170	170	"	128.3	118.	125.	124.
170	170	Soaring.....	137.3	127.	126.	138.
170	170	Birds—planting.....	137.3	127.	126.	138.
170	170	"	137.3	127.	126.	138.
170	170	Sheep-shearing.....	139.8	131.	141.	138.
170	170	"	139.8	131.	141.	138.
170	170	Fay-cutting.....	205.8	191.	191.	190.
170	170	"	205.8	191.	191.	190.
170	170	Chain-cutting.....	245.0	240.	241.	250.
170	170	"	245.0	240.	241.	250.
170	170	Potato-digging.....	279.4	258.	273.	259.
170	170	"	279.4	258.	273.	259.
170	170	Opening of rivers.....	278.	278.	278.	278.
170	170	"	278.	278.	278.	278.
170	170	Opening of lakes.....	285.	285.	285.	285.
170	170	"	285.	285.	285.	285.
170	170	First autumn frost—hoar.....	286.3	276.	276.	276.
170	170	"	286.3	276.	276.	276.
170	170	Last snow to whiten ground.....	287.6	276.	276.	276.
170	170	"	287.6	276.	276.	276.
170	170	Fly in air.....	287.6	276.	276.	276.
170	170	"	287.6	276.	276.	276.
170	170	Last spring frost—hard.....	288.2	278.	278.	278.
170	170	"	288.2	278.	278.	278.
170	170	Hoar.....	289.5	278.	278.	278.
170	170	"	289.5	278.	278.	278.
170	170	Closing of lakes.....	304.8	319.	319.	319.
170	170	"	304.8	319.	319.	319.
170	170	Water in streams—high.....	332.1	332.	332.	332.
170	170	"	332.1	332.	332.	332.
170	170	Low.....	332.7	332.	332.	332.
170	170	"	332.7	332.	332.	332.
170	170	Wild ducks migrating, North.....	339.5	318.	318.	318.
170	170	"	339.5	318.	318.	318.
170	170	South.....	340.6	318.	318.	318.
170	170	"	340.6	318.	318.	318.
170	170	Geese.....	341.8	320.	320.	320.
170	170	"	341.8	320.	320.	320.
170	170	North.....	342.4	320.	320.	320.
170	170	"	342.4	320.	320.	320.
170	170	South.....	343.1	320.	320.	320.
170	170	"	343.1	320.	320.	320.
170	170	Rivers.....	343.7	320.	320.	320.
170	170	"	343.7	320.	320.	320.
170	170	Waters.....	344.4	320.	320.	320.
170	170	"	344.4	320.	320.	320.
170	170	Wind.....	345.1	320.	320.	320.
170	170	"	345.1	320.	320.	320.
170	170	Clouds.....	345.8	320.	320.	320.
170	170	"	345.8	320.	320.	320.
170	170	Light.....	346.5	320.	320.	320.
170	170	"	346.5	320.	320.	320.
170	170	Dark.....	347.2	320.	320.	320.
170	170	"	347.2	320.	320.	320.
170	170	Cloudy.....	347.9	320.	320.	320.
170	170	"	347.9	320.	320.	320.
170	170	Light.....	348.6	320.	320.	320.
170	170	"	348.6	320.	320.	320.
170	170	Dark.....	349.3	320.	320.	320.
170	170	"	349.3	320.	320.	320.
170	170	Cloudy.....	350.0	320.	320.	320.
170	170	"	350.0	320.	320.	320.
170	170	Light.....	350.7	320.	320.	320.
170	170	"	350.7	320.	320.	320.
170	170	Dark.....	351.4	320.	320.	320.
170	170	"	351.4	320.	320.	320.
170	170	Cloudy.....	352.1	320.	320.	320.
170	170	"	352.1	320.	320.	320.
170	170	Light.....	352.8	320.	320.	320.
170	170	"	352.8	320.	320.	320.
170	170	Dark.....	353.5	320.	320.	320.
170	170	"	353.5	320.	320.	320.
170	170	Cloudy.....	354.2	320.	320.	320.
170	170	"	354.2	320.	320.	320.
170	170	Light.....	354.9	320.	320.	320.
170	170	"	354.9	320.	320.	320.
170	170	Dark.....	355.6	320.	320.	320.
170	170	"	355.6	320.	320.	320.
170	170	Cloudy.....	356.3	320.	320.	320.
170	170	"	356.3	320.	320.	320.
170	170	Light.....	357.0	320.	320.	320.
170	170	"	357.0	320.	320.	320.
170	170	Dark.....	357.7	320.	320.	320.
170	170	"	357.7	320.	320.	320.
170	170	Cloudy.....	358.4	320.	320.	320.
170	170	"	358.4	320.	320.	320.
170	170	Light.....	359.1	320.	320.	320.
170	170	"	359.1	320.	320.	320.
170	170	Dark.....	359.8	320.	320.	320.
170	170	"	359.8	320.	320.	320.
170	170	Cloudy.....	360.5	320.	320.	320.
170	170	"	360.5	320.	320.	320.
170	170	Light.....	361.2	320.	320.	320.
170	170	"	361.2	320.	320.	320.
170	170	Dark.....	361.9	320.	320.	320.
170	170	"	361.9	320.	320.	320.
170	170	Cloudy.....	362.6	320.	320.	320.
170	170	"	362.6	320.	320.	320.
170	170	Light.....	363.3	320.	320.	320.
170	170	"	363.3	320.	320.	320.
170	170	Dark.....	364.0	320.	320.	320.
170	170	"	364.0	320.	320.	320.
170	170	Cloudy.....	364.7	320.	320.	320.
170	170	"	364.7	320.	320.	320.
170	170	Light.....	365.4	320.	320.	320.
170	170	"	365.4	320.	320.	320.
170	170	Dark.....	366.1	320.	320.	320.
170	170	"	366.1	320.	320.	320.
170	170	Cloudy.....	366.8	320.	320.	320.
170	170	"	366.8	320.	320.	320.
170	170	Light.....	367.5	320.	320.	320.
170	170	"	367.5	320.	320.	320.
170	170	Dark.....	368.2	320.	320.	320.
170	170	"	368.2	320.	320.	320.
170	170	Cloudy.....	368.9	320.	320.	320.
170	170	"	368.9	320.	320.	320.
170	170	Light.....	369.6	320.	320.	320.
170	170	"	369.6	320.	320.	320.
170	170	Dark.....	370.3	320.	320.	320.
170	170	"	370.3	320.	320.	320.
170	170	Cloudy.....	371.0	320.	320.	320.
170	170	"	371.0	320.	320.	320.
170	170	Light.....	371.7	320.	320.	320.
170	170	"	371.7	320.	320.	320.
170	170	Dark.....	372.4	320.	320.	320.
170	170	"	372.4	320.	320.	320.
170	170	Cloudy.....	373.1	320.	320.	320.
170	170	"	373.1	320.	320.	320.
170	170	Light.....	373.8	320.	320.	320.
170	170	"	373.8	320.	320.	320.
170	170	Dark.....	374.5	320.	320.	320.
170	170	"	374.5	320.	320.	320.
170	170	Cloudy.....	375.2	320.	320.	320.
170	170	"	375.2	320.	320.	320.
170	170	Light.....	375.9	320.	320.	320.
170	170	"	375.9	320.	320.	320.
170	170	Dark.....	376.6	320.	320.	320.
170	170	"	376.6	320.	320.	320.
170	170	Cloudy.....	377.3	320.	320.	320.
170	170	"	377.3	320.	320.	320.
170	170	Light.....	378.0	320.	320.	320.
170	170	"	378.0	320.	320.	320.
170	170	Dark.....	378.7	320.	320.	320.
170	170	"	378.7	320.	320.	320.
170	170	Cloudy.....	379.4	320.	320.	320.
170	170	"	379.4	320.	320.	320.
170	170	Light.....	380.1	320.	320.	320.
170	170	"	380.1	320.	320.	320.
170	170	Dark.....	380.8	320.	320.	320.
170	170	"	380.8	320.	320.	320.
170	170	Cloudy.....	381.5	320.	320.	320.
170	170	"	381.5	320.	320.	320.
170	170	Light.....	382.2	320.	320.	320.
170	170	"	382.2	320.	320.	320.
170	170	Dark.....	382.9	320.	320.	320.
170	170	"	382.9	320.	320.	320.
170	170	Cloudy.....	383.6	320.	320.	320.
170	170	"	383.6	320.	320.	320.
170	170	Light.....	384.3	320.	320.	320.
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PHENOLOGICAL OBSERVATIONS IN

WHEN FIRST SEEN.	OBSERVATION REGIONS.	YEAR 1912.		WHEN BECOMING COMMON.
		1. Yarmouth and Digby	2. Shelburne, Queens- and Lunenburg	
1. Yarmouth and Digby	3. Annapolis and Kings	96. 94	93. 99	Day of the year corresponding to the last day of each month.
	4. Halifax and South	83. 85	84. 89	Jan. 31 July 212
	5. Charlottetown and South	100. 92	95. 93	Feb. 59 Aug. 243
	6. S. Gaspé and Slope (S. Gaspé and Slope)	133. 148	132. 124	March 90 Sept. 272
	7. N. Gaspé, Col. Picton and Antigonish	133. 148	132. 124	April 120 Oct. 304
	8. Bribmont and Cape Breton	133. 158	132. 124	May 151 Nov. 334
	9. Bras d'Or Slope, Inver-	133. 158	132. 124	June 181 Dec. 365
	10. Hiverses Slope, Inver-			For leap year add one to each except January.
				Average Dates
				1. Yarmouth and Digby
				2. Shelburne, Queens- and Lunenburg
				3. Annapolis and Kings
				4. Halifax and South
				5. Charlottetown and South
				6. S. Gaspé and Slope
				7. N. Gaspé, Col. Picton and Antigonish
				8. Bribmont and Cape Breton
				9. Bras d'Or Slope, Inver-
				10. Hiverses Slope, Inver-
				Gulf
				and Victoria Slope to
				Col.
				Gulf
				10. Hiverses Slope to
				Gulf
				and Victoria Slope to
				Col.
				Gulf
				10. Hiverses Slope to
				Gulf
				and Victoria Slope to
				Col.
				Gulf
				10. Hiverses Slope to
				Gulf
				and Victoria Slope to
				Col.
				Gulf
				10. Hiverses Slope to
				Gulf
				and Victoria Slope to
				Col.
				Gulf
				10. Hiverses Slope to
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				and Victoria Slope to
				Col.
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				10. Hiverses Slope to
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				and Victoria Slope to
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				and Victoria Slope to
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				and Victoria Slope to
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				and Victoria Slope to
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				and Victoria Slope to
				Col.
				Gulf
				10. Hiverses Slope to
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				and Victoria Slope to
				Col.
				Gulf
				10. Hiverses Slope to
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				and Victoria Slope to
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				10. Hiverses Slope to
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				and Victoria Slope to
				Col.
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				10. Hiverses Slope to
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				and Victoria Slope to
				Col.
				Gulf
				10. Hiverses Slope to
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				and Victoria Slope to
				Col.
				Gulf
				10. Hiverses Slope to
				Gulf
				and Victoria Slope to
				Col.
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				10. Hiverses Slope to
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				and Victoria Slope to
				Col.
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				10. Hiverses Slope to
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				and Victoria Slope to
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				10. Hiverses Slope to
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				and Victoria Slope to
				Col.
				Gulf
				10. Hiverses Slope to
				Gulf
				and Victoria Slope to
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				10. Hiverses Slope to
				Gulf
				and Victoria Slope to
				Col.

THUNDERSTORMS—PHENOLOGICAL OBSERVATIONS, NOVA SCOTIA, 1912.

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

OBSERVATION REGIONS.

	1. Yarmouth and Digby.	2. Shelburne, Queens and Lunenburg.	3. Amherst and Kings.	4. Hants and South Colchester.	5. Halifax and Guysborough.	6. S. Cobeguid Slope (S. Cum. and Col.)	7. North Cum., Col., Pictou and Antig.	8. Richmond and Cape Breton.	9 & 10. Victoria and Inverness.	Total reports of Thunderstorms for Year 1912.
	50	52				66				59
		53								52
		64								53
		65								54
68				67						65
69 ^s		69 ⁴	69 ²	69						66
70 ^s		70 ²	70 ²		70					67
	72			74						68
		75								69 ¹⁰
	76 ²	76								70 ^s
	77									72
78	78 ¹²	78	78							74
	79 ³⁸	79 ³	79	79 ²	79 ³					75
80	80	80 ⁴		80 ⁷	80 ⁴					76 ^s
				81						77
	82			82						78 ¹¹
	85 ^s									79 ¹⁴
	97			98						80 ¹⁷
					100					81
					101	101				82 ^s
						102				83 ^s
					103					84 ^s
		106		106 ²	107	106	106			85 ^s
	107	107 ⁶	107	107	107 ⁴	107 ¹⁴	107 ¹²	107		86 ^s
		108 ²		108 ²		108 ⁴	108 ¹⁰	108 ⁸		107 ¹⁴
109 ²					109					108 ¹¹
	110 ²					110				109 ^s
	113 ²			113						110 ^s
	114	114	114							113 ^s
	115 ³¹									114 ^s
116	116 ²	116	116	116						115 ^s
	117 ¹⁴					117	117			116 ¹⁰
										117 ¹⁶

THUNDERSTORMS—PHENOLOGICAL OBSERVATIONS, NOVA SCOTIA, 1912.

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

OBSERVATION REGIONS.

1. Yarmouth and Digby.	2. Shelburne, Queens and Lunenburg.	3. Annapolis and Kings.	4. Hants and South Colchester.	5. Halifax and Guysboro.	6. S. Cobequid Slope (S. Cum. and Col.)	7. North Cum., Col., Pictou and Antig.	8. Richmond and Cape Breton.	9 & 10. Victoria and Inverness.	Total reports of Thunder- storms for Year 1912.
118	118 ¹²		118	118 ⁴		118			118 ¹⁰
	119 ³	119 ²		119 ²		119 ³			119 ⁸
				124					123
	125					126			124
	126			127		128			125
									126 ³
									127
	129 ³								128
	130 ¹⁴			130 ²		130 ²	130		129 ³
131 ³	131 ²	131 ³	131	131 ⁸	131	131 ⁶	131 ³	131 ⁵	130 ⁹
132		132		132 ²		132	132		131 ⁸
		133				133			132 ⁴
	134								133 ²
	135	135				136			134
				137		137	137		135 ⁵
						138 ²			136
						139 ²			137 ¹
						139			138 ⁸
	140 ⁷		140 ⁸		140	140 ¹¹		140 ²	139 ⁸
141			142				141		140 ⁴
									141 ¹
									142 ⁴
									143 ²
144 ³	144 ²⁴	144 ³	144 ⁴	144 ⁴	144 ²	144 ¹¹	144 ²	144	144 ⁴⁴
145 ⁴	145 ⁸	145 ¹⁵	145 ⁷	145 ⁸	145 ¹⁰	145 ¹⁶	145 ¹⁵	145 ²	145 ⁴⁴
	146 ²	146 ⁶	146 ⁴	146 ⁴			146		146 ¹⁷
		147							147
	148 ³	148							148 ⁴
		149							149
						150			150
151		153		151		151			151 ⁴
									153 ⁴
	154		154	154 ²	154	154	154		154 ⁷
		155 ³	155 ¹⁰	155 ⁶	155 ¹⁰	155 ¹⁴	155 ⁵	155 ⁶	155 ¹¹
			156			156 ²	156 ²		156 ⁴
	157			157	157				157 ¹
		158							158 ²
						159 ²			159 ⁸
	160 ⁴	160	160			160 ²	160		160 ⁸
	161 ²	161 ³	161	161	161	161 ¹⁰	161	161	161 ²²

THUNDERSTORMS—PHENOLOGICAL OBSERVATIONS, N. S., 1912.—Continued.
The indices indicate the number of stations from which the Thunderstorms
were reported on the day of the year specified.

OBSERVATION REGIONS.

258 PHENOLOGICAL OBSERVATIONS IN N. S., 1912.—MACKAY.

THUNDERSTORMS—PHENOLOGICAL OBSERVATIONS, N.S., 1912.—Continued.

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

OBSERVATION REGIONS.