

Recording Phenological Data

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Phenological data were collected again by the same persons, namely B. Peterson, R. C. Russell, and M. W. Cormack at Winnipeg, Saskatoon, and Edmonton respectively.

The lists of plants observed at the three places diverge considerably this time, but each observer is selecting plants which come under his observation most regularly. This tends to make the data more valuable as there is less chance of a flower escaping notice for several days after it first begins to bloom.

The data are assembled in the form of a table, which appears on the following page. In the first column under each place are shown the dates on which the plants were first seen in flower. In the second column figures followed by the letter E or L show how much earlier or later than the average date this was. The average is based on as many years observations as are available for that particular plant and place, varying from three to five years. A zero in the second column signifies that the plant bloomed at the average date.

Somewhat similar data showing the time of seeding, emergence, heading and harvesting of Thatcher wheat at the same three places is given.

It may be seen that the first part of the season was relatively late at all three places. At midseason, however, it was somewhat earlier at Saskatoon than usual. Then followed a relatively cool period in the latter half of July with the result that the harvest was somewhat later than usual.

With each successive year's data our records will become more valuable. For one thing we can compute more reliable averages. Moreover we have not had records for enough years on some of the species to compute an average date for the commencement of flowering.

Summary of phenological data taken at Winnipeg, Saskatoon, and Edmonton in 1940.

Species	Winnipeg		Saskatoon		Edmonton	
	a	b	a	b	a	b
<i>Pulsatilla Ludoviciana</i>	-	-	20/4	3 L	1/5	3 L
<i>Populus tremuloides</i>	30/4	1 L	27/4	5 L	2/5	9 L
<i>Phlox Hoodii</i>	-	-	30/4	2 L	-	-
<i>Acer Negundo</i>	10/5	2 L	6/5	0	10/5	8 L
<i>Betula papyrifera</i>	-	-	12/5	3 L	16/5	8 L
<i>Thermopsis rhombifolia</i>	-	-	7/5	2 E	-	-
<i>Amelanchier alnifolia</i>	20/5	4 L	12/5	0	20/5	6 L
<i>Hierochloa odorata</i>	20/5	1 L	15/5	0	-	-
<i>Prunus pennsylvanica</i>	-	-	17/5	3 L	22/5	6 L
<i>Prunus americana</i>	19/5	5 L	-	-	-	-
<i>Pyrus baccata</i>	24/5	?	-	-	-	-
<i>Smilacina stellata</i>	29/5	4 L	19/5	1 E	26/5	7 L
<i>Viola canadensis</i>	-	-	19/5	2 L	24/5	8 L
<i>Prunus melanocarpa</i>	29/5	-	24/5	1 L	28/5	5 L
<i>Svida sp. (Cornus sp.)</i>	31/5	1 L	28/5	0	4/6	5 L
<i>Crataegus coccinea</i>	28/5	?	-	-	-	-
<i>Elaeagnus commutata</i>	-	-	31/5	0	7/6	6 L
<i>Dihelcos bisulcatus</i>	-	-	2/6	5 E	-	-
<i>Lonicera glaucescens</i>	-	-	29/5	?	14/6	?
<i>Viburnum lentago</i>	3/6	?	-	-	-	-
<i>Viburnum trilobum</i>	-	-	-	-	10/6	2 L
<i>Anemone canadensis</i>	7/6	2 E	7/6	0	21/6	5 L
<i>Heuchera hispida</i>	-	-	5/6	1 E	-	-
<i>Achillea lanulosa</i>	-	-	5/6	3 E	29/6	6 L
<i>Rosa alcea</i>	-	-	14/6	1 E	-	-
<i>Galium boreale</i>	-	-	11/6	?	19/6	?
<i>Thalictrum dasycarpum</i>	4/6	?	-	-	-	-
<i>Gaillardia aristata</i>	-	-	15/6	4 E	-	-
<i>Agrimonia striata</i>	-	-	-	-	2/7	?
<i>Bromus inermis</i>	24/6	4 L	25/6	3 L	4/7	10 L
<i>Campanula petiolata</i>	-	-	18/6	3 E	-	-
<i>Symphoricarpos occidentalis</i>	-	-	-	-	5/7	3 L
<i>Phleum pratense</i>	13/6	?	-	-	6/7	?
<i>Psoralidium argophyllum</i>	-	-	2/7	4 E	-	-
<i>Zizia aurea</i>	14/6	?	-	-	-	-
<i>Chamaenerion spicatum</i>	-	-	-	-	10/7	?
<i>Lactucapulchella</i>	-	-	6/7	4 E	19/7	?
<i>Grindelia perennis</i>	-	-	21/7	0	-	-
<i>Oligoneuron canescens</i>	28/7	1 E	20/7	2 E	-	-
<i>Solidago canadensis</i>	16/7	?	-	-	20/7	?
<i>Axyris amaranthoides</i>	22/7	?	-	-	-	-
<i>Aster crassulus (white)</i>	-	-	-	-	3/8	?
<i>Aster laevis (purple)</i>	-	-	22/7	7 E	6/8	2 L
Thatcher Wheat (early seeded)						
Sown	24/4	-	22/4	2 L	9/5	11 L
Emerged	3/5	-	8/5	2 L	16/5	7 L
Headed	26/6	-	24/6	2 E	7/7	6 L
Harvested	1/8	-	8/8	8 L	20/8	7 L