

Phenological Data - 1943

by
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The phenological data in the accompanying table are compiled from records secured by M.W. Cormack of Edmonton, R.C. Russell of Saskatoon, and B. Peterson of Winnipeg. Column "a" gives 1943 dates; column "b" gives number of days earlier or later than average. The figures in the "b" column have more significance each year as they are based on the average flowering date for a longer period as time goes on. In many cases now they are the average of seven or eight years' observations.

At the very beginning of the season the native plants commenced flowering a few days earlier than usual. All through May and June, however, the weather was relatively cool and growth was retarded so that the plants bloomed from 3 to 11 days later than usual. The season remained somewhat late at Winnipeg, but at Saskatoon and Edmonton flowers bloomed at the normal time, or a little earlier, after July 15.

Thatcher wheat matured relatively late at all three places in spite of the fact that it was sown at the normal time at Edmonton.

As was the case last year, the wheat harvest was delayed more than the flowering of the late species of plants.

Mr. Peterson also supplied the dates when the following rusts were noted in Manitoba:

Melampsora Lini I	10/6
Puccinia coronata Avenae I	16/6
" triticina II	21/6
" coronata Avenae II	7/7
" graminis Tritici II	12/7
" " Avenae II	12/7
" anomala II	25/7

For nine plants in the main list, Dr. W.H. Minshall has supplied the following data for first dates of anthesis at Ottawa:

Populus tremuloides	1/5	Anemone canadensis	7/6
Acer Negundo	9/5	Bromus inermis	21/6
Prunus pennsylvanica	22/5	Phleum pratense	24/6
Smilacina stellata	24/5	Solidago canadensis	24/7
Viola canadensis	12/5		

Dr. Minshall has also supplied the following figures for anthesis dates of four trees at Ottawa, to allow comparison of the 1943 season with preceding years:

	<u>8-year Average</u>	<u>1942</u>	<u>1943</u>
Acer saccharinum	15/4	3/4	23/4
Ulmus americana	30/4	23/4	7/5
Acer saccharum	11/5	29/4	19/5
Pinus sylvestris	28/5	18/5	2/6

Summary of Phenological Data taken at
Winnipeg, Saskatoon, and Edmonton in 1943

Species	Winnipeg		Saskatoon		Edmonton	
	a	b	a	b	a	b
<i>Pulsatilla Ludoviciana</i>	-	-	17/4	1E	-	-
<i>Populus tremuloides</i>	22/4	4E	19/4	3E	19/4	3E
<i>Phlox Hoodii</i>	-	-	22/4	5E	-	-
<i>Acer Negundo</i>	5/5	2E	10/5	5L	1/5	N
<i>Betula papyrifera</i>	-	-	11/5	3L	13/5	5L
<i>Thermopsis rhombifolia</i>	-	-	14/5	5L	-	-
<i>Prunus americana</i>	20/5	7L	-	-	-	-
<i>Amelanchier alnifolia</i>	21/5	6L	15/5	3L	20/5	7L
<i>Hierochloë odorata</i>	23/5	4L	21/5	5L	-	-
<i>Prunus pennsylvanica</i>	-	-	24/5	5L	23/5	8L
<i>Viola canadensis</i>	-	-	22/5	7L	22/5	4L
<i>Smilacina stellata</i>	30/5	6L	3/6	11L	28/5	4L
<i>Prunus melanocarpa</i>	-	-	1/6	7L	31/5	7L
<i>Crataegus sp. (Hawthorn)</i>	30/5	7L	1/6	7L	4/6	?
<i>Prunus virginiana</i>	31/5	6L	-	-	-	-
<i>Svida sp. (Dogwood)</i>	4/6	7L	3/6	6L	8/6	9L
<i>Lonicera glaucescens</i>	-	-	15/6	10L	16/6	7L
<i>Elaeagnus commutata</i>	-	-	10/6	9L	10/6	8L
<i>Viburnum Lentago</i>	12/6	9L	-	-	-	-
<i>Viburnum trilobum</i>	20/6	11L	-	-	17/6	9L
<i>Achillea lanulosa</i>	-	-	16/6	8L	1/7	6L
<i>Diholcos bisulcatus</i>	-	-	18/6	9L	-	-
<i>Galium boreale</i>	-	-	21/6	9L	23/6	7L
<i>Rosa alcea (open prairie)</i>	-	-	27/6	8L	-	-
<i>Anemone canadensis</i>	18/6	10L	16/6	7L	21/6	4L
<i>Campanula petiolata</i>	-	-	28/6	6L	-	-
<i>Gaillardia aristata</i>	-	-	28/6	9L	-	-
<i>Bromus inermis</i>	27/6	6L	1/7	8L	3/7	7L
<i>Agrimonia striata</i>	-	-	-	-	4/7	4L
<i>Symphoricarpos occidentalis</i>	2/7	4L	8/7	?	6/7	3L
<i>Phleum pratense</i>	-	-	-	-	7/7	2L
<i>Chamaenerion spicatum</i>	-	-	-	-	13/7	5L
<i>Lactuca pulchella</i>	-	-	-	-	15/7	1L
<i>Spiraea alba</i>	-	-	5/7	1L	-	-
<i>Chrysopsis hirsutissima</i>	-	-	11/7	?	-	-
<i>Solidago missouriensis</i>	-	-	15/7	1L	-	-
<i>Agastache anethiodora</i>	-	-	-	-	11/7	1E
<i>Grindelia sp. (Gum-weed)</i>	21/7	?	25/7	?	-	-
<i>Solidago canadensis</i>	25/7	5L	-	-	20/7	3L
<i>Cirsium Flodmanii</i>	-	-	15/7	N	-	-
<i>Oligoneuron canescens</i>	-	-	25/7	2L	-	-
<i>Aster laevis</i>	-	-	30/7	1L	30/7	2E
<i>Aster crassulus</i>	-	-	25/7	5E	2/8	?
Thatcher Wheat:						
Sown	5/5	11L	3/5	8L	26/4	N
Emerged	15/5	12L	21/5	12L	9/5	1L
Headed	3/7	8L	7/7	9L	3/7	2L
Harvested	10/8	8L	15/8	11L	26/8	12L