



THE OTTAWA NATURALIST

VOL. XXIX.

MARCH, 1916

No. 12

DATA ON SEED MATURITY OF SOME ONTARIO PLANTS.

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During the seasons from 1909 to 1914, the writer collected extensively the seeds of many native and naturalized plants, in the vicinity of Galt, Ont., for the Seed Branch at Ottawa.

While our standard works on botany usually give the month of flowering of most plants, and many published lists of local floras give exact dates of flowering, very little has been published as to the time of the maturing of the seed.

Having accumulated considerable data on this point, the list published here may prove of some value; the dates given for flowering are when the plants are well into bloom, and in early flowering plants this may vary considerably in different years, according to weather conditions in spring. The dates given for seed maturing are when seed was collected, and where plants ripen and shed their seed during a short period, as in *Claytonia*, the dates can be taken to represent fairly well the fruiting season. In some few instances where the seed is persistent after maturity, as in *Rumex*, the date of collecting may be some little time after maturity, and, therefore, not so accurate. Again, the dates of flowering and of seed maturity in many cases were not taken during the same year, but, as before mentioned, except in early flowering species the time of flowering from year to year is fairly constant:—

NAME	Time of Flowering	Seed Mature
SPARGANIUM DIVERSIFOLIUM Graebner.....	Jul 15	Sep 23
SCHEUCHZERIA PALUSTRIS L.....	Jun 8	Sep 4
SAGITTARIA ARIFOLIA Nutt.....	Jul 27	Sep 9
ALISMA PLANTAGO-AQUATICA L.....	Aug 14	Sep 7
ANDROPOGON SCOPARIUS Michx.....	Aug 7	Sep 17

NAME	Time of Flowering	Seed Mature
ANDROPOGON FURCATUS Muhl.....	Aug 25	Sep 19
SORGHASTRUM NUTANS (L.) Nash.....	Aug 25	Sep 17
DIGITARIA HUMIFUSA Pers.....	Aug 17	Sep 21
DIGITARIA SANGUINALIS (L.) Scop.....	Sep 1	Oct 2
PANICUM LINEARIFOLIUM Scribn.....	Jul 6	Jul 23
PANICUM LATIFOLIUM L.....	Jun 28	Jul 20
LEERSIA ORYZOIDES (L.) Sw.....	Aug 5	Sep 18
MILLIUM EFFUSUM L.....	Jun 3	Jun 17
ORYZOPSIS ASPERIFOLIA Michx.....	Apr 23	Jun 10
MUHLENBERGIA MEXICANA (L.) Trin.....	Sep 6	Oct 15
BRACHYELYTRUM ERECTUM (Shreb.) Beauv...	Jun 28	Jul 29
ALOPECURUS GENICULATUS L. var. ARISTULA- TUS Torr.....	Jun 14	Jul 11
CINNA LATIFOLIA (Trev.) Griseb.....	Aug 1	Aug 26
SPHENOPHOLIS PALLENS (Spreng.) Scribn.....	Jul 6	Jul 20
DESCHAMPSIA CAESPITOSA (L.) Beauv.....	Jun 16	Jul 2
AVENA STERILIS L.....	Jul 26	Aug 12
DANTHONIA SPICATA (L.) Beauv.....	Jul 1	Jul 19
SPARTINA MICHAUXIANA Hitchc.....	Aug 1	Sep 17
POA ANUUA L.....	Apr 30	Jun 3
POA TRIFLORA Gilib.....	Jul 9	Jul 29
POA DEBILIS Torr.....	May 28	Jun 16
POA ALSODES Gray.....	Jun 1	Jun 16
GLYCERIA CANADENSIS (Michx.) Trin.....	Jul 6	Aug 8
GLYCERIA NERVATA (Willd.) Trin.....	Jun 3	Jun 27
GLYCERIA GRANDIS Wats.....	Jun 29	Jul 19
GLYCERIA SEPTENTRIONALIS Hitchc.....	Jun 14	Jul 9
PUCCINELLIA DISTANS (L.) Parl.....	Jun 23	Jul 8
FESTUCA NUTANS Spreng.....	Jul 1	Jul 13
MELICA STRIATA (Michx.) Hitchc.....	Jun 21	Jul 13
BROMUS TECTORUM L.....	Jun 13	Jul 13
BROMUS KALMII Gray.....	Aug 25	Sep 4
AGROPYRUM REPENS (L.) Beauv.....	Jul 25	Sep 13
AGROPYRUM CANINUM (L.) Beauv.....	Jul 1	Sep 11
ELYMUS STRIATUS Willd.....	Jul 20	Aug 13
ELYMUS CANADENSIS L.....	Aug 25	Sep 18
HYSTRIX PATULA Moench.....	Jul 13	Sep 4
CYPERUS ESCULENTUS L.....	Aug 18	Oct 30
ELEOCHARIS OVATA (Roth.) R. & S.....	Jun 15	Jul 21
SCIRPUS VALIDUS Vahl.....	Jul 27	Sep 9
SCIRPUS ATROVIRENS Muhl.....	Aug 3	Oct 7
SCIRPUS CYPERINUS (L.) Kunth.....	Jul 31	Oct 1
RYNCHOSPORA FUSCA (L.) Ait. f.....	Aug 31	Sep 6
CLADIUM MARISCOIDES (Muhl.) Torr.....	Aug 31	Sep 2
CAREX CRISTATA Schwein.....	Aug 6	Aug 25

NAME	Time of Flowering	Seed Mature
CAREX BEBBII Olney.....	Jul 3	Aug 6
CAREX SYCHNOCEPHALA Carey.....	Jul 30	Aug 26
CAREX SCIRPOIDES Schkuhr.....	Jun 3	Jun 24
CAREX VULPINOIDEA Michx.....	Jul 1	Jul 18
CAREX DIANDRA Schrank.....	Jun 20	Jul 11
CAREX STIPATA Muhl.....	Jun 4	Jun 21
CAREX STRICTA Lam.....	Jun 4	Jun 25
CAREX LEPTALEA Wahlenb.....	Jun 1	Jun 26
CAREX PUBESCENS Muhl.....	Jun 1	Jun 21
CAREX FLAVA L.....	May 28	Jul 13
CAREX HYSTERICINA Muhl.....	Jun 16	Jul 2
CAREX SCHWEINITZII Dewey.....	Jun 4	Jul 13
CAREX LUPULINA Muhl.....	Aug 1	Oct 7
CAREX ROSTRATA Stokes.....	Jun 10	Jul 9
ARISAEMA TRIPHYLLUM (L.) Schott.....	May 26	Aug 26
CALLA PALUSTRIS L.....	May 6	Sep 7
SYMPLOCARPUS FOETIDUS (L.) Nutt.....	Apr 20	Oct 14
JUNCUS TENUIS Willd.....	Jun 29	Jul 11
JUNCUS EFFUSUS L.....	Jun 23	Jul 29
JUNCUS CANADENSIS J. Gay.....	Aug 31	Sep 4
LILIUM SUPERBUM L.....	Jul 6	Sep 16
CLINTONIA BOREALIS (Ait.) Raf.....	Jun 3	Jul 22
SMILACINA RACEMOSA (L.) Desf.....	Jun 15	Sep 16
STREPTOPUS ROSEUS Michx.....	Jun 3	Jul 22
TRILLIUM GRANDIFLORUM (Michx.) Salisb....	May 14	Jun 15
CANNABIS SATIVA L.....	Aug 23	Sep 25
URTICA GRACILIS Ait.....	Jul 25	Oct 15
BOEHMERIA CYLINDRICA (L.) SW.....	Aug 3	Oct 28
RUMEX BRITANNICA L.....	Jul 26	Sep 7
RUMEX VERTICILLATUS L.....	Jul 23	Sep 6
RUMEX OBTUSIFOLIUS L.....	Jul 8	Jul 27
RUMEX ACETOSELLA L.....	Jun 13	Jul 15
RUMEX CRISPUS L.....	Jun 27	Jul 15
POLYGONUM PENNSYLVANICUM L.....	Aug 3	Sep 1
POLYGONUM HYDROPIPER L.....	Aug 26	Sep 19
POLYGONUM SAGITTATUM L.....	Aug 6	Aug 23
POLYGONUM AVICULARE L.....	Sep 1	Oct 14
KOCHIA SCOPARIA (L.) Schrad.....	Aug 31	Oct 9
SPERGULA ARVENSIS L.....	Jun 26	Aug 17
ARENARIA SERPYLLIFOLIA L.....	Jun 1	Jun 28
CERASTIUM VULGATUM L.....	Jun 4	Jun 22
LYCHNIS ALBA Mill.....	Jun 5	Sep 19
SILENE LATIFOLIA (Mill.) B. & R.....	Jun 14	Jul 22
SAPONARIA OFFICINALIS L.....	Aug 2	Sep 22
CLAYTONIA VIRGINICA L.....	Apr 9	May 24

NAME	Time of Flowering	Seed Mature
CASTALIA ODORATA (Ait.) W. & W.....	Jul 9	Aug 6
RANUNCULUS DELPHINIFOLIUS Torr.....	May 7	Jun 18
RANUNCULUS SCCELERATUS L.....	May 24	Jun 21
RANUNCULUS ABORTIVUS L.....	May 7	Jun 11
RANUNCULUS RECURVATUS Poir.....	May 28	Jun 27
RANUNCULUS FASCICULARIS Muhl.....	Apr 16	Jun 11
RANUNCULUS SEPTENTRIONALIS Poir.....	Jun 4	Jul 4
RANUNCULUS REPENS L.....	May 24	Jul 5
RANUNCULUS PENNSYLVANICUS L.f.....	Jul 9	Aug 6
THALICTRUM DIOICUM L.....	Apr 23	Jul 6
THALICTRUM POLYGAMUM Muhl.....	Jul 13	Oct 18
HEPATIC A TRILOBA Chaix.....	Apr 4	Jun 10
ANEMONE VIRGINIANA L.....	Jun 14	Sep 11
CALTHA PALUSTRIS L.....	May 10	Jun 17
AQUILEGIA CANADENSIS L.....	Jun 1	Jun 24
ACTAEA RUBRA (Ait.) Willd.....	May 24	Jul 15
MENISPERMUM CANADENSE L.....	Jul 6	Sep 23
PODOPHYLLUM PELTATUM L.....	Jun 7	Aug 15
CAULOPHYLLUM THALICTROIDES (L.) Michx...	Apr 4	Aug 25
SANGUINARIA CANADENSIS L.....	Apr 9	Jun 25
CHELIDONIUM MAJUS L.....	May 21	Jun 28
PAPAVER RHOEAS L.....	Jul 21	Aug 15
FUMARIA OFFICINALIS L.....	Aug 4	Sep 9
BERTEROA INCANA (L.) DC.....	Jul 23	Oct 16
LEPIDIUM APETALUM Willd.....	Jun 1	Jul 10
CAPSELLA BURSA-PASTORIS (L.) Medic.....	May 24	Jun 17
CAMELINA MICROCARPA Andrz.....	Jun 3	Jul 7
BRASSICA ALBA (L.) Boiss.....	Jul 1	Sep 15
BRASSICA NIGRA (L.) Koch.....	Jul 6	Sep 25
SISYMBRIUM OFFICINALE (L.) Scop.....	Jul 9	Aug 31
RADICULA NASTURTIUM-AQUATICUM (L) B.&B.	Jun 15	Jul 25
BARBAREA STRICTA Andrz.....	May 20	Jul 29
ERUCA SATIVA.....	Aug 1	Sep 25
SARRACENIA PURPUREA L.....	Jun 20	Aug 27
PENTHORUM SEDOIDES L.....	Jul 30	Aug 26
MITELLA DIPHYLLA L.....	May 11	Jun 3
PARNASSIA CAROLINIANA Michx.....	Sep 16	Sep 31
PHYSOCARPUS OPULIFOLIUS (L.) Maxim.....	Jul 3	Sep 7
POTENTILLA RECTA L.....	Jun 18	Aug 6
POTENTILLA PALUSTRIS (L.) Scop.....	Jul 1	Jul 23
GEUM CANADENSE Jacq.....	Jun 25	Aug 25
GEUM STRICTUM Ait.....	Jul 13	Sep 4
GEUM RIVALE L.....	Jun 3	Jun 28
GEUM TRIFLORUM Pursh.....	May 24	Jun 25
AGRIMONIA GRYPOSEPALA Wallr.....	Jul 18	Sep 10

NAME	Time of Flowering	Seed Mature
GLEDITSIA TRIACANTHOS L.....	Jun 14	Nov 17
LUPINUS PERENNIS L.....	Jun 14	Jul 9
MELILOTUS OFFICINALIS (L.) Lam.....	Jul 6	Aug 10
MELILOTUS ALBA Desr.....	Jul 6	Aug 26
LOTUS CORNICULATUS L.....	Jul 15	Aug 28
ROBINIA PSEUDO-ACACIA L.....	Jun 20	Nov 23
DESMODIUM PANICULATUM (L.) D.C.....	Aug 6	Sep 24
LESPEDEZA FRUTESCENS (L.) Britton.....	Aug 14	Sep 24
LESPEDEZA CAPITATA Michx.....	Aug 24	Oct 26
GERANIUM MACULATUM L.....	May 28	Jul 1
POLYGALA SENEGA L.....	Jun 18	Jul 4
ACALYPHA VIRGINICA L.....	Aug 25	Oct 1
EUPHORBIA CYPARISSIAS L.....	May 24	Jul 7
FLOERKEA PROSERPINACOIDES Willd.....	May 15	Jun 1
RHUS TOXICODENDRON L.....	Jun 23	Oct 9
IMPATIENS FULVA Nutt.....	Aug 1	Sep 10
CEANOTHUS AMERICANUS L.....	Jul 28	Aug 25
MALVA ROTUNDIFOLIA L.....	Jul 19	Sep 15
MALVA MOSCHATA L.....	Jun 14	Aug 9
HYPERICUM PERFORATUM L.....	Jul 4	Sep 18
VIOLA ARVENSIS Murr.....	May 22	Aug 7
DECODON VERTICILLATUS (L.) Ell.....	Aug 4	Sep 23
EPILOBIUM ANGUSTIFOLIUM L.....	Aug 1	Aug 26
OENOTHERA BIENNIS L.....	Aug 17	Sep 9
CIRCAEA LUTETIANA L.....	Jul 17	Aug 13
ARALIA RACEMOSA L.....	Jul 27	Sep 10
ARALIA NUDICAULIS L.....	May 28	Jul 23
PANAX QUINQUEFOLIUM L.....	Jul 1	Sep 5
SANICULA MARILANDICA L.....	Jun 16	Sep 4
SANICULA GREGARIA Bicknell.....	Jun 8	Aug 26
SANICULA TRIFOLIATA Bicknell.....	Jun 19	Aug 13
OSMORHIZA CLAYTONI (Michx.) Clarke.....	May 28	Jul 25
OSMORHIZA LONGISTYLIS (Torr.) DC.....	Jun 10	Jul 25
CONIUM MACULATUM L.....	Jul 29	Sep 15
CICUTA MACULATA L.....	Jul 25	Sep 20
CARUM CARVI L.....	Jun 11	Jul 20
SIMUM CICUTÆFOLIUM Schrank.....	Jul 23	Sep 25
CRYPTOTAENIA CANADENSIS (L.) DC.....	Jun 16	Aug 26
ZIZIA AUREA (L.) Koch.....	Jun 5	Aug 6
FOENICULUM VULGARE Hill.....	Aug 15	Oct 4
TAENIDIA INTEGERRIMA (L.) Drude.....	Jun 14	Aug 12
AETHUSA CYNAPIUM L.....	Jul 10	Sep 18
LEVISTICUM OFFICINALE (L.) Koch.....	Jul 6	Aug 15
ANETHUM GRAVEOLENS L.....	Jul 15	Sep 30
HERACLEUM LANATUM Michx.....	Jun 27	Sep 11

NAME	Time of Flowering	Seed Mature
CONIOSELINUM CHINENSE (L.) BSP.....	Aug 31	Sep 24
ANGELICA ATROPURPUREA L.....	Jul 8	Jul 25
DAUCUS CAROTA L.....	Aug 6	Sep 17
KALMIA POLIFOLIA Wang.....	Jun 4	Jul 8
LYSIMACHIA VULGARIS L.....	Jul 7	Sep 18
ANAGALLIS ARVENSIS L.....	Jul 17	Aug 31
GENTIANA CRINITA Froel.....	Sep 4	Sep 30
GENTIANA ANDREWSII Griseb.....	Sep 1	Sep 16
FRASERA CAROLINIENSIS Walt.....	Jun 15	Sep 15
HALENIA DEFLEXA (Sm.) Griseb.....	Aug 16	Sep 27
MENYANTHES TRIFOLIATA L.....	Jun 2	Jul 14
ASCLEPIAS TUBEROSA L.....	Jul 13	Oct 7
ASCLEPIAS INCARNATA L.....	Jul 11	Sep 11
ASCLEPIAS SYRIACA L.....	Jul 8	Oct 2
IPOMOEA PURPUREA (L.) Roth.....	Jul 29	Sep 1
CONVOLVULUS SEPIUM L.....	Jun 27	Oct 2
CUSCUTA GRONOVII Willd.....	Aug 23	Sep 16
HYDROPHYLLUM VIRGINIANUM L.....	Jun 30	Jul 28
LAPULLA VIRGINIANA (L.) Greene.....	Jul 17	Sep 10
MYOSOTIS ARVENSIS (L.) Hill.....	Jul 16	Aug 17
VERBENA URTICAEFOLIA L.....	Aug 3	Sep 18
VERBENA HASTATA L.....	Jul 11	Sep 18
MARRUBIUM VULGARE L.....	Jul 5	Aug 17
PRUNELLA VULGARIS L.....	Jun 29	Aug 25
LEONURUS CARDIACA L.....	Jul 1	Sep 11
HYSSOPUS OFFICINALIS L.....	Jul 10	Sep 18
LYCOPUS VIRGINICUS L.....	Aug 11	Sep 13
LYCOPUS AMERICANUS Muhl.....	Aug 11	Sep 11
SOLANUM DULCAMARA L.....	Jun 18	Oct 2
SOLANUM NIGRUM L.....	Sep 2	Oct 1
PHYSALIS HETEROPHYLLA Nees.....	Jul 15	Sep 24
NICANDRA PHYSALOIDES (L.) Pers.....	Sep 5	Sep 21
HYOSCYAMUS NIGER L.....	May 26	Sep 25
DATURA STRAMONIUM L.....	Aug 17	Oct 1
VERBASCUM BLATTARIA L.....	Aug 3	Sep 18
PENSTEMON HIRSUTUS (L.) Willd.....	Jun 8	Aug 5
CHELONE GLABRA L.....	Aug 11	Oct 2
DIGITALIS PURPUREA L.....	Jun 25	Aug 7
VERONICA OFFICINALIS L.....	Jun 16	Jul 29
GERARDIA VIRGINICA (L.) BSP.....	Aug 6	Sep 24
GERARDIA PAUPERCUA (Gray) Britton.....	Jul 25	Sep 30
PEDICULARIS CANADENSIS L.....	May 19	Jul 9
EPIFAGUS VIRGINIANA (L.) Bart.....	Aug 27	Oct 6
PHRYMA LEPTOSTACHYA L.....	Jul 21	Sep 9
PLANTAGO LANCEOLATA L.....	Jul 27	Aug 23

NAME	Time of Flowering	Seed Mature
GALIAM APARINE L.....	May 21	Jul 1
GALIAM APARINE VAR. VAILLANTII (DC.) KOCH.	May 19	Jun 17
GALIAM CIRCAEZANS Michx.....	Jun 30	Aug 13
GALIAM TRIFIDUM L.....	Jun 15	Aug 23
GALIAM MOLLOGO L.....	Jul 1	Sep 4
CEPHALANTHUS OCCIDENTALIS L.....	Jul 27	Oct 7
TRIOSTEUM AURANTIACUM Bicknell.....	Jun 8	Sep 2
DIPSACUS SYLVESTRIS Huds.....	Aug 11	Sep 11
ECHINO CYSTIS LOBATA (Michx.) T. & G.....	Aug 2	Sep 25
LOBELIA SIPHILITICA L.....	Jul 20	Oct 14
EUPATORIUM PURPUREUM L.....	Aug 2	Sep 17
EUPATORIUM PERFOLIATUM L.....	Aug 11	Oct 15
SOLIDAGO SQUARROSA Muhl.....	Aug 27	Oct 15
SOLIDAGO JUNCEA Ait.....	Aug 23	Oct 22
SOLIDAGO GRAMINIFOLIA (L.) Salisb.....	Aug 25	Oct 22
ASTER MACROPHYLLUS L.....	Aug 31	Oct 19
ASTER NOVAE-ANGLIAE L.....	Sep 2	Oct 21
ASTER MULTIFLORUS Ait.....	Sep 19	Oct 30
ASTER PUNICEUS L.....	Aug 31	Oct 21
INULA HELENIUM L.....	Aug 11	Oct 25
XANTHIUM SPINOSUM L.....	Aug 5	Oct 29
XANTHIUM CANADENSE Mill.....	Sep 1	Oct 16
XANTHIUM ECHINATUM Murr.....	Aug 2	Oct 21
RUDBECKIA HIRTA L.....	Jul 27	Sep 18
HELIANTHUS STROMOSUS L.....	Aug 23	Sep 27
BIDENS FRONDOSA L.....	Aug 31	Oct 2
BIDENS CERNUA L.....	Sep 1	Oct 23
BIDENS LAEVIS (L.) BSP.....	Aug 31	Oct 15
ANTHEMIS ARVENSIS L.....	Jun 10	Jul 26
TANACETUM VULGARE L.....	Aug 17	Oct 14
ARTEMISIA VULGARIS L.....	Aug 22	Sep 29
ERECHTITES HIERACIFOLIA (L.) Raf.....	Aug 20	Sep 17
SENECIO VULGARIS L.....	Jul 10	Aug 20
CIRSIIUM MUTICUM Michx.....	Aug 31	Sep 2
ONOPORDUM ACANTHIUM L.....	Aug 23	Oct 9
CENTAUREA CYANUS L.....	Aug 1	Aug 25
CNICUS BENEDICTUS L.....	Aug 15	Oct 1
LAPSANA COMMUNIS L.....	Jul 15	Aug 13
TRAGOPOGON PRATENSIS L.....	Jun 4	Jul 15
LACTUCA SCARIOLA L.....	Aug 1	Aug 31



Herriot, W. 1916. "Data on Seed Maturity of Some Ontario Plants." *The Ottawa naturalist* 29(12), 151–157.

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