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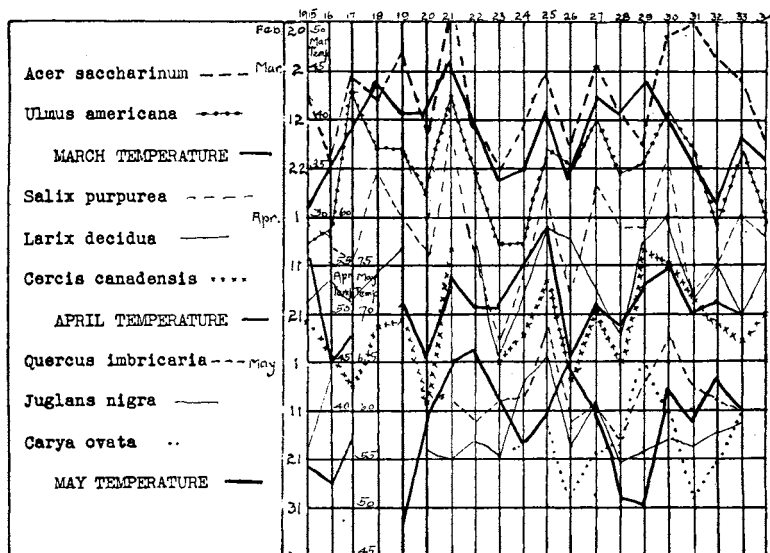
A TWENTY YEAR'S PHENOLOGICAL RECORD OF THE SPRING FLOWERING PLANTS OF HENRY COUNTY

ELLSWORTH DODDS AND H. E. JAQUES

Each spring since 1915 a record of the date of the first appearance of flowers of our seed bearing plants has been kept. This has been handled through a contest¹ with the students in the botany classes. Reports on the comparative dates for some of the more representative species were made in 1918² and in 1924.³

The present spring completes twenty such annual lists. Every effort has been made to reduce errors of identification and record to a minimum. The human element, of course, enters into it and flowers may not always be reported on the earliest possible date. Competition among the students is so keen, however, that this would not happen often. It should be born in mind that the dates

Table A. Representative Trees



¹ Jaques, H. E. Collecting Contests as a means of increasing student interest in biological subjects. Proc. Ia. Acad. Sci. 38:267-271. 1931.

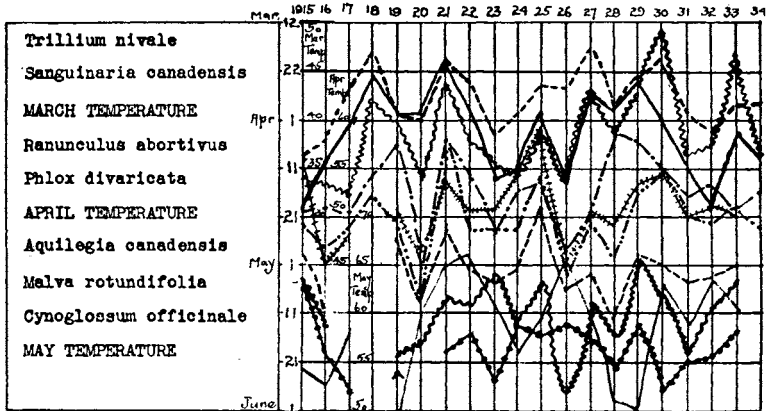
² Jaques, H. E. Some Phenological records of spring flowering plants of Henry county. Proc. Ia. Acad. Sci. 25:413-415. 1918.

³ Jaques, H. E. A ten year's phenological record of the spring flowering plants of Henry county. Proc. Ia. Acad. Sci. 31:225-227. 1924.

represent first fully opened flowers. In most cases a species would not be at its best for bloom until a week or two later.

In making this report an attempt has been made to select the most representative plants. In table A the variation of flowering dates of some of our common trees is shown in graphic form. In

Table B. Typical Herbaceous Plants



the same way some common herbaceous plants are graphed in table B. Both tables show average temperature records by months for each year. These temperature data have been furnished by Mr. John Jericho, official weather bureau reporter. Table C shows the reported date of first flowers of a series of representative plants over the period of twenty years. Our full lists are made up for all plants both native and cultivated that live over winter out of doors or are raised from seed in open ground out of doors. In 1934 we had our largest list of 517 different plants reported up to May 28. The average per year runs around 350 species.

IOWA WESLEYAN COLLEGE,
Mt. PLEASANT, IOWA.

Dodds and Jaques: A Twenty Years Phenological Record of the Spring Flowering Plants

Table C—Showing Month and Day of First Flowers of Some Representative Species

SCIENTIFIC NAME OF PLANT	COMMON NAME	Average																				
		Date	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934
Galanthus Elwesii Hook F.	Giant Snowdrop	3-3	3-9	3-11	2-26	3-8	2-22	2-23	2-28	3-13	3-7	3-7	3-6	2-12	2-23	2-29	3-14	2-18	3-13	3-25	2-22	3-7
Acer saccharinum L.	White or Silver Maple	3-7	3-9	3-20	3-3	3-8	2-27	3-17	2-16	3-13	3-23	3-14	3-6	3-18	2-28	3-9	3-17	2-22	2-20	2-27	3-3	3-16
Taraxacum officinale Weber.	Common Dandelion	3-1	4-7	4-4	3-29	3-19	3-15	4-2	2-15	2-22	3-27	1-31	2-20	1-9	1-28	3-14	2-7	2-25	1-26	1-20	2-24	3-16
Populus tremuloides Michx.	American Aspen	3-22	4-6	4-4	3-3	3-18	3-13	3-27	3-15	3-21	4-7	4-3	3-20	3-23	3-12	4-4	3-22	3-8	3-14	4-4	3-16	3-30
Ulmus Americana L.	American Elm	3-22	4-6	4-4	3-7	3-18	3-17	3-27	3-7	3-23	4-7	4-7	3-17	3-22	3-12	3-24	3-21	3-10	3-20	4-4	3-18	4-4
Trillium nivale Riddell.	Dwarf White Trillium	3-28	4-7	4-4	3-26	3-18	3-31	4-1	3-18	3-25	4-5	3-31	3-24	3-25	3-17	4-4	3-23	3-19	3-31	4-4	3-28	3-28
Hepatica triloba Chaix.	Round-leaved Liverwort	3-31	4-11	4-4	3-29	3-19	4-1	4-20	3-14	4-3	4-9	4-7	3-28	4-12	3-18	4-3	3-23	3-11	4-8	4-4	3-16	4-4
Capella Bursa-pastoris (L) Medic.	Shepherd's Purse	3-30	4-7	4-4	4-10	3-18	4-3	4-28	4-5	4-5	3-29	4-5	3-26	4-9	3-23	3-28	3-21	4-2	3-21	4-4	3-3	3-14
Dicentra Culcullaria (L) Bernh.	Dutchman's Breeches	4-8	4-12	4-5	4-10	4-1	3-31	4-13	4-4	4-10	4-13	4-14	4-9	4-19	4-4	4-4	4-4	4-4	4-13	4-11	4-8	4-9
Populus deltoides Marsh.	Cotton-wood	4-8	4-14	4-18	4-13	4-2	4-7	4-5	3-25	4-7	4-20	4-14	4-3	4-22	4-6	4-4	4-4	4-7	4-13	4-11	4-10	4-11
Acer Negundo L.	Box Elder	4-10	4-13	4-14	4-19	4-2	4-7	4-6	3-23	4-5	4-20	4-14	4-1	4-26	4-6	4-10	4-5	4-11	4-13	4-15	4-19	4-16
Sanguinaria canadensis L.	Bloodroot	4-4	4-12	4-13	4-16	3-25	3-31	4-13	3-23	4-6	4-11	4-12	4-1	4-14	3-25	4-3	3-26	3-13	4-8	4-6	3-18	4-9
Anemonea thalictroides (L) Spach.	Rue Anemone	4-9	4-11	4-15	4-2	4-2	4-7	4-25	4-2	4-10	4-23	4-14	3-30	4-19	4-6	4-4	4-5	4-5	4-10	4-11	4-8	4-10
Claytonia virginica L.	Spring Beauty	4-10	4-15	4-15	4-12	4-2	4-1	4-25	4-4	4-6	4-23	4-14	3-30	4-19	4-19	4-4	4-8	4-7	4-10	4-8	3-28	4-7
Nepeta hederaceae (L) Trevisan	Ground Ivy	4-11	4-20	4-19	4-20	4-5	4-3	5-10	3-30	4-7	4-21	4-16	4-14	4-28	4-7	4-3	4-5	4-3	4-13	4-7	3-23	4-5
Amelanchier canadensis (L) Medic.	Service Berry	4-16	4-19	4-18	4-21	4-9	4-11	4-24	4-4	4-10	4-23	4-25	4-10	4-28	4-19	4-24	4-6	4-11	4-21	4-11	4-19	4-18
Ranunculus abortivus L.	Small Flowered Buttercup	4-16	4-20	4-19	4-20	4-12	4-7	5-3	4-5	4-13	4-25	4-16	4-14	4-28	4-20	4-4	4-5	4-11	4-17	4-15	4-20	4-17
Erythronium albidum Nutt.	Fawn Lily	4-16	4-19	4-18	4-21	4-15	4-11	4-26	4-4	4-13	4-23	4-16	4-12	4-21	4-19	4-23	3-27	4-8	4-20	4-18	4-12	4-16
Fragaria virginiana Duchesne	Virginia Strawberry	4-17	4-17	4-15	4-20	4-10	4-22	4-29	4-5	4-18	4-23	4-25	4-15	4-26	4-8	4-23	4-11	4-10	4-17	5-2	4-12	4-17
Polemonium reptans L.	Greek Valerian	4-19	4-23	4-24	4-23	4-11	4-11	4-5	4-18	5-1	4-25	4-12	5-3	4-20	4-26	4-10	4-11	4-17	4-21	4-19	4-18	4-18
Phlox divaricata L.L.	Blue Phlox	4-21	4-23	4-28	4-23	4-10	4-22	5-8	4-5	4-24	4-24	4-24	4-12	5-3	4-22	4-30	4-15	4-11	4-21	4-22	4-19	4-23
Trillium recurvatum	Prairie Wake-robin	4-24	4-21	4-24	4-22	4-22	4-30	4-20	4-27	4-24	4-26	4-13	5-4	4-20	5-1	4-8	4-26	4-18	4-23	4-10	4-19	4-19
Cercis canadensis L.	Redbud	4-23	4-22	5-7	4-24	4-22	5-10	4-7	5-1	4-25	4-13	5-3	4-20	5-1	4-8	4-11	4-18	4-23	4-27	4-21	4-21	4-21
Aesculus glabra Willd.	Ohio Buckeye	4-25	5-2	4-30	4-22	5-8	4-20	4-27	5-2	4-25	4-17	5-3	4-19	5-7	4-12	4-17	4-18	4-28	4-28	4-28	4-23	4-23
Arisaema triphyllum (L) Schott.	Jack-in-the-Pulpit	4-27	4-26	5-12	4-28	5-2	4-29	5-7	4-28	4-19	5-12	5-2	5-10	4-29	5-20	5-25	5-10	5-1	5-10	5-1	4-30	4-30
Agulegia canadensis L.	Wild Columbine	4-28	5-11	5-14	4-24	5-9	4-22	5-2	5-5	5-2	4-18	5-7	5-3	5-14	4-29	5-1	5-5	5-5	5-1	5-2	5-2	5-2
Berberis vulgaris L.	European Barberry	4-28	5-16	5-7	5-9	5-20	5-16	5-21	5-16	5-21	5-10	5-13	5-11	5-24	5-4	-	-	5-9	5-13	5-7	5-7	5-7
Potentilla canadensis L.	Five Finger	5-4	5-15	5-19	5-5	5-18	5-2	5-3	5-21	5-5	4-23	5-13	5-11	5-17	5-13	5-8	5-14	5-9	5-15	5-7	5-7	5-7
Malva rotundifolia L.	Common Mallow	5-5	5-15	5-20	5-20	5-18	5-8	5-9	5-3	5-13	5-4	5-28	5-9	5-16	4-29	5-7	5-19	5-10	5-4	4-30	4-30	4-30
Asparagus officinalis L.	Garden Asparagus	4-30	5-15	5-20	5-29	5-26	5-10	5-8	5-16	4-30	4-23	5-14	5-16	5-17	5-11	5-13	5-18	5-18	5-15	5-5	5-3	5-3
Trifolium repens L.	White Clover	5-12	5-15	5-23	5-16	5-26	5-9	5-9	5-26	5-7	4-23	5-14	5-13	5-17	4-30	5-9	5-25	5-9	5-8	5-8	5-8	5-8
Hydrophyllum virginianum L.	Virginia Waterleaf	5-10	5-18	5-29	5-23	5-12	5-13	5-25	5-20	5-8	5-17	5-17	5-28	5-17	5-28	5-17	-	-	5-20	5-15	5-11	5-11
Cynoglossum officinale L.	Common Hound's Tongue	5-6	5-19	5-28	5-23	5-20	5-16	5-25	5-13	5-15	5-14	5-16	5-22	5-13	5-27	5-21	5-19	5-15	5-11	5-11	5-11	5-11
Vitis vulpina L.	Frost Grape	5-12	5-29	5-20	6-2	5-30	5-24	5-13	5-2	5-20	5-4	5-19	5-21	5-22	5-25	5-13	5-27	5-19	5-23	5-11	5-11	5-11
Melilotus officinalis (L) Lam.	Yellow Sweet Clover	5-17	5-26	5-29	5-29	5-11	5-19	5-31	5-26	5-13	5-20	5-21	5-17	5-27	5-26	-	5-24	5-19	5-8	5-8	5-8	5-8
Robinia Pseudo-Acacia L.	Common Locust	5-6	5-27	5-27	5-30	5-16	5-25	5-23	5-16	5-25	5-23	5-16	5-22	-	-	5-20	5-13	5-25	5-20	5-23	5-11	5-11