

A LIST  
OF  
**PLANTS**

COLLECTED IN THE

**VICINITY OF OQUAWKA,**

**HENDERSON COUNTY, ILLS.,**

BY

**HARRY N. PATTERSON.**



OQUAWKA SPECTATOR PRINT.

1874.



## CATALOGUE.

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The † affixed to dates in the column of "first fls." signifies that the plant was in flower at that time, perhaps a few days earlier, in the column of "last fls." the sign denotes that the plant remained in flower until that date, perhaps a little later.

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	1871		1872		1873.	
	First fls. about	Last fls.	First fls. about	Last fls. about	First fls. about	Last fls.
<i>Clematis Pitcheri</i> , Torr. & Gr	May 27		June 11	Aug 1	Jun 28 †	
<i>Virginiana</i> , L. . . . .			Aug 5			
<i>Anemone Caroliniana</i> , Walt	April 4	May 11	Apr 23		Apr 23	June 10
<i>cylindrica</i> , Gray. . . . .						
<i>Virginiana</i> , L. . . . .						
<i>Pennsylvanica</i> , L. . . . .	May 14		May 18	July 14	May 22	
<i>Hepatica acutiloba</i> , DC. . . . .	May 18	April 24	April 8		April 2	May 12
<i>Thalictrum anemonoides</i> , Mx.			April 24	May 30 †	May 7	
<i>purpurascens</i> , L. . . . .	June 3	June 30	June 15			
<i>Ranunculus multifidus</i> , Pnsh.	May 7		May 10			
<i>divaricatus</i> , Schrank. . . . .					May	
<i>aquatilis</i> , L., var. . . . .						
<i>abortivus</i> , L. . . . .	April 9	Jun 19 †	April 28	Jun 26 †	May 4	
<i>Pennsylvanicus</i> , L. . . . .						
<i>fasciculatus</i> , Muhl. . . . .			April 24	May 25	April 27	
<i>repens</i> , L. . . . .	April 7		April 25		May 1	
<i>Isopyrum biternatum</i> , T & G	April 4	May 14	April 18	April 28	April 26	
<i>Aquilegia Canadensis</i> , L. . . . .	April 26		May 9	July 12	May 17	Aug
<i>Delphinium tricornis</i> , Mx. . . . .			May 13		May 20	Jun 12
<i>azureum</i> , Mx. . . . .	May 23	June 25	June 4	July 9	June 7	

Prairies and oak barrens throughout the county, near the Mississippi county of Hancock—Dr. Mxan Very rare in Ills.—M. S. Bena. Near Warsaw, in the adjoining



RANUNCULACEÆ	1871.	1872.	1873.
<i>Actæa alba</i> , Bigel.....		May 18	May 30!
ANONACEÆ			
<i>Asimina triloba</i> , Dunal.....	April 24	May 12	May 10
MENISPERMACEÆ			
<i>Menispermum Canadense</i> , L.		June 1	June 18
BERBERIDACEÆ			
<i>Caulophyllum thalictroides</i> Mx	April 26		May 5
<i>Podophyllum peltatum</i> , L...	May 1	May 18	May 9
NYMPHÆACEÆ			
<i>Nelumbium lateum</i> , Willd .	Jul 23!	Sept 10	July 24
<i>Nymphaea tuberosa</i> , Paine...			Jun 12!
<i>Nuphar advena</i> , Ait.....	May 20		May 27
PAPAVERACEÆ			
<i>Argemone Mexicana</i> , L.....			
<i>Sanguinaria Canadensis</i> , L...	April 5	Apr 24!	Apr 19
FUMARIACEÆ			
<i>Dicentra Cucullaria</i> , DC....	April 6	April 26	April 20
<i>Corydalis aurea</i> , v <i>micrantha</i>			April 23
A single plant found on the river bank a mile north of Oquawka			
CRUCIFERÆ			
<i>Nasturtium sessiliflorum</i> , Nutt			
The ordinary (tall) form along the edges of ponds, May—June, rather rare. A dwarf form, on sand bars and low river banks is more common, and blooms from May till October.			
<i>palustre</i> , DC.....		May 22	*Frost
<i>lacustre</i> , Gray.....		June 10	Jul 25!
<i>Dentaria laciniata</i> , Muhl....	April 4	April 28	April 22
<i>Cardamine rhomboidea</i> , DC..	April 13	May 20	May 2
<i>hirsuta</i> , L.....	April 7		April 28
<i>Arabis lyrata</i> , L.....	April 6	July	April 18
<i>dentata</i> , T & Gr.....	April 25	June 20	May 8
<i>laevigata</i> , DC.....	May 6	July 25	April 30
<i>hesperidoidea</i> , Gray.....			June 7
<i>Erysimum cheiranthoides</i> , L.	June 15		
<i>Brassica nigra</i> , Gray ..	May 31		June 12
<i>Sisymbrium officinale</i> , Scop..	May 11	Aug 22!	Jun 8
<i>canescens</i> , Nutt.....			Sept 1
<i>Draba Caroliniana</i> , Walt....	May 31	April 23	April 17
<i>Capsella Bursa-pastoris</i> , Moen.	April 9		April 27
<i>Lepidium Virginicum</i> , L....	May 12		May 8
CAPPARIDACEÆ			
<i>Polanisia graveolens</i> , Raf....	May 30		June 6
<i>Cleome integrifolia</i> , T. & G.			June 2
Introduced. A beautiful plant, native "from New Mexico to the Upper Missouri and Oregon." Well established and slowly spreading along roads, Oquawka.			

\*Plants marked "Frost" flower until killed by hard frosts in October.

VIOLACEÆ	1871.	1872.	1873.
<i>Viola cucullata</i> , Ait.....	April 6	April 24	May 30!
<i>sagittata</i> , Ait.....		April 28	May 26
<i>delphinifolia</i> , Nutt.....		April 24	May 30
<i>pedata</i> , L.....	April 12	May 25	May 27
var. <i>bicolor</i> .....			June 6
<i>pubescens</i> , Ait.....	April 10		May 5
CISTACEÆ			
<i>Helianthemum Canadense</i> , Mx	May 19		May 26
The dates belong to the large, early flowers			
<i>Lechea major</i> , Mx.....			
<i>minor</i> , Lam.....			Jun 20!
HYPERICACEÆ			
<i>Hypericum nudiflorum</i> , Mx..	June 19		June 23
<i>pyramidatum</i> , Ait.....	July 15		Aug 6
<i>sphaerocarpon</i> , Mx.....			June 25
<i>corymbosum</i> , Muhl.....			July 28
<i>Canadense</i> , L., v <i>major</i>			
CARYOPHYLLACEÆ			
<i>Saponaria officinalis</i> , L.....	June 8		June 21
<i>Vaccaria vulgaris</i> , Host.			June 24
Very rare as yet, along railroads.			
<i>Silene stellata</i> , Ait.....	July 1	Aug 17	July 2
<i>nivea</i> , DC.....	June 1		Sept 2!
<i>inflata</i> , Smith.....			June 10
<i>antirrhina</i> , L.....	May 14		July 14
<i>Arenaria lateriflora</i> , L.....			June 8
<i>Stellaria media</i> , Smith.....			
<i>Cerastium nutans</i> , Raf.....	April 24		May 6
<i>Anychia dichotoma</i> , Mx.....	June 12		June 1
<i>Mollugo verticillata</i> , L.....	June 16		June 1
PORTULACACEÆ			
<i>Portulaca oleracea</i> , L.....	June 10		
<i>Talinum teretifolium</i> , Pnsh.	June		June 24
<i>Claytonia Virginica</i> , L.....	May 30	May 3	Sept 1
<i>Caroliniana</i> , Mx.....	April 12	May 11	April 24
MALVACEÆ			
<i>Malva rotundifolia</i> , L.....	May 22		June 5
<i>Calluhoe triangulata</i> , Gray..	July 24		July 21
Now nearly extinct here.			
<i>Sida spinosa</i> , L.....	June 16		July 9
<i>Abutilon Avicennæ</i> , Gærtn .	July 15		July 25
<i>Hibiscus militaris</i> , Cav.....	July 27		Aug 1
<i>Trionum</i> , L.....	June 21		July 9
TILIACEÆ			
<i>Tilia Americana</i> , L.....			June 24



LINACEÆ	1871.	1872.	1873.
<i>Linum sulcatum</i> , Riddell....	June 9 Sept 25!		
GERANIACEÆ			
<i>Geranium maculatum</i> , L....	May 6 June 2	May 11 June 15	May 10
<i>Impatiens pallida</i> , Nutt.....	June 10	July 11	Frost
<i>fulva</i> , Nutt.....		July 11	Frost
<i>Oxalis violacea</i> , L.....	April 24	May 1 June 13	May 2
<i>stricta</i> , L.....	May 13	May 21	Frost
RUTACEÆ			
<i>Zanthoxylum Americanum</i> , Mill		April 25	
<i>Ptelea trifoliata</i> , L.....	May 20 June	May 25 June 12	
ANACARDIACEÆ			
<i>Rhus glabra</i> , L.....	June 5	June 17 July 10!	
<i>Toxicodendron</i> , L.....	May 29 June 4	June 10 Jun 20!	
<i>aromatica</i> , Ait.....	May 2 May 22	May 11	May 18 June
VITACEÆ			
<i>Vitis aestivalis</i> , Mx.....			
<i>cordifolia</i> , Mx.....			
<i>Ampelopsis quinquefolia</i> , Mx.	June 12 June 17		
RHAMNACEÆ			
<i>Rhamnus lanceolatus</i> , Pursh		May 10 May 25	May 26
Both the forms noticed in Gray's Manual. Fruit usually small, rarely four lines in diameter and juicy!			
<i>Ceanothus Americanus</i> , L....	June 8	June 18 July 30	June 25
CELASTRACEÆ			
<i>Celastrus scandens</i> , L.....	May 18 May 24	May 26 June 5	May 30
<i>Euonymus atropurpureus</i> , Jacq	May 26 June 19	June 6 June 30	June 15
SAPINDACEÆ			
<i>Staphylea trifolia</i> , L.....	April 28 May 12	May 9 May 24	May 16
<i>Æsculus glabra</i> , Willd.....	April 14 May 20	May 1 May 16	May 8
Fruit sometimes entirely destitute of prickles, even when young.			
<i>Acer saccharinum</i> , Wang....	April 10 April 28		
<i>dasycaepum</i> , Ehrh.....	Mich 8 Mich 22	Mich 28 April 9	May 16 April 5
<i>Negundo aceroides</i> , Mœnch..	April 10 April 26	April 21 May 2	April 25 May 16
POLYGALACEÆ			
<i>Polygala incarnata</i> , L.....		Sept 24!	
<i>sanguinea</i> , L.....	June 16		
<i>verticillata</i> , L.....		June 24	Frost
<i>Senega</i> , L.....	May 6 June 1	May 12 June 30	
LEGUMINOSÆ			
<i>Trifolium pratense</i> , L.....	May 7	May 15	Frost
<i>repens</i> , L.....	May 7	May 15	
<i>Melilotus alba</i> , Lam.....			
<i>officinalis</i> , Willd.....			
<i>Petalostemon violaceus</i> , Mx..	June 18 Sep 17!	June 29	
<i>candidus</i> , Mx.....	June 22 Sep 17!	June 21	June 28

LEGUMINOSÆ	1871.	1872.	1873.
<i>Amorpha fruticosa</i> , L.....	May 20 June 12	May 30 Jun 16!	June 8
<i>canescens</i> , Nutt.....	June 9! Aug 16	June 21 Aug 23!	
<i>Tephrosia Virginiana</i> , Pers..	June 4 Aug 16	June 22	June 2
<i>Astragalus Canadensis</i> , L....	July 4	July 20 Aug 17!	
<i>Desmodium acuminatum</i> , DC.	June 16 Sept 13	July 3 Aug 25!	
<i>canescens</i> , DC.....			
<i>Illinoense</i> , Gray.....			July 10 Aug 11
<i>Canadense</i> , DC.....			
<i>sessilifolium</i> , T. & G....		Aug 5	
<i>Lespedeza violacea</i> , Pers....	July 28 Sep 15!		
<i>capitata</i> , Mx.....	July 26 Sept 5	Aug 6	
<i>Lathyrus palustris</i> , L.....			
<i>Apios tuberosa</i> , Mœnch.....			
<i>Phaseolus diversifolius</i> , Pers.		July 10	Frost
<i>Amphicarpæa monoica</i> , Nutt.	July 29	Aug 5	Frost
<i>Cercis Canadensis</i> , L.....	April 12 May 6	April 29 May 17	May 12
<i>Baptisia leucantha</i> , T. & Gr.	June 1	June 8 Aug 25!	June 24
<i>leucophæa</i> , Nutt.....	April 28 May 25	May 7 June 6	May 20 June 14
<i>Cassia Marilandica</i> , L.....		July 29	
<i>Chamaecrista</i> , L.....	July 3 Sept 15!	July 4	
<i>nictitans</i> , L.....		July 24	Aug 1
<i>Gymnocladus Canadensis</i> Lam	May 15 May 26	May 26 June 9	June 4
<i>Gleditsia triacanthos</i> , L....	May 14 May 25	May 30	June 6
ROSACEÆ			
<i>Prunus Americana</i> , Marshall.	April 10 May 3	April 27 May 15	May 5 May 21
" <i>var. ?</i> ..		May 1	
Frequent in the Mississippi bottoms. This is the plum I have distributed as <i>P. Chicasa</i> , Mx.; but Dr GRAY pronounces it to be " <i>P. rivularis</i> , Scheele—I think not distinct from <i>P. Americana</i> ." Fruit ripens later than that of the common form, round, red; one edge of the seed sharp, the other grooved. Leaves very smooth and shining.			
<i>Virginiana</i> , L.....	May 1 May 12	May 5	May 21 May 31
<i>serotina</i> , Ehrh.....	May 7 May 17	May 16	May 24 June 3
<i>Spiræa opulifolia</i> , L.....	May 18		
<i>Atuncus</i> , L.....	May 30 June 19	June 9 Jun 29!	June 11
<i>Agrimonia Eupatoria</i> , L....		July 21 Sep 25!	
<i>Geum album</i> , Gmelin.....		Aug 2!	June 28
<i>Virginianum</i> , L.....			June 16
<i>Potentilla Norvegica</i> , L.....	June 8	June 20	May 30 Frost
<i>Canadensis</i> , L.....	May 13	May 18 Jun 25!	May 21
<i>arguta</i> , Pursh.....		July 3	June 28
<i>Fragaria Virginiana</i> , Ehrh...			
<i>Rubus occidentalis</i> , L.....			May 28
<i>villosus</i> , Ait.....	Jun 10!	Jun 12!	June 1
<i>Rosa blanda</i> , Ait.....			
<i>lucida</i> , Ehrh.....			
<i>Crataegus coccinea</i> , L. ? .....			May 26
<i>tomentosa</i> , L.....	April 21 May 11	May 1 May 17	May 13
<i>Pyrus coronaria</i> , L.....	April 24 May 15	May 9 May 20	May 17
<i>Amelanchier Canad.</i> , T. & G.	April 11 April 20	April 24 May 7	May 1 May 14



SAXIFRAGACEÆ	1871	1872.	1873.
<i>Ribes Cynosbati</i> , L. ....			
<i>rotundifolium</i> , Mx. ....	April 15 May 7	April 25 May 12	May 2
<i>floridum</i> , L. ....	April 21 May 13	May 8	May 10 May 31
<i>Hemcheira hispida</i> , Pursh. ....	May 16 June 8	June 1 June 26	June 25
<i>Mitella diphylla</i> , L. ....	April 14	May 11	May 13 May 24
CRASSULACEÆ			
<i>Penthorum sedoides</i> , L. ....	June 26 Sept 10	July 7 Sept 5	
HALORAGACEÆ			
<i>Myriophyllum scabratum</i> , Mx.		June 18 Aug 20	June 1
ONAGRACEÆ			
<i>Cnicus Latetiana</i> , L. ....	June 15	June 23 July 31	June 29
<i>Gaura biennis</i> , L. ....			
<i>Epilobium coloratum</i> , Muhl.	Sep 12	July 15	
<i>Oenothera biennis</i> , L. ....	July 10	July 12	Frost
<i>rhombipetala</i> , Nutt. ....	June 15 Sept 1	June 27	June 23
<i>fruticosa</i> , L. ....	May 27 June 20	June 6 July 19	June 7
<i>Ludwigia alternifolia</i> , L. ....		Aug 7	
<i>polycarpa</i> , Short & Peter		July 28	Frost
<i>palustris</i> , Ell. ....		Sept 28	
LYTHRACEÆ			
<i>Ammannia humilis</i> , Mx. ....			
<i>latifolia</i> , L. ....		Aug 8	Frost
<i>Nuttallii</i> , Gray. ....			
<i>Lythrum alatum</i> , Pursh. ....	June 12	June 22 Sept 20	
CACTACEÆ			
<i>Opuntia Rafinesquii</i> , Engelm.		June 16	
UMBELLIFERÆ			
<i>Sanicula Canadensis</i> , L. ....			June 1
<i>Eryngium yuccifolium</i> , Mx.		July 20 Aug 19	
<i>Polytaena Nuttallii</i> , DC. ....		May 26	June 20
<i>Heracleum lanatum</i> , Mx. ....	May 20		June 1
<i>Pastinaca sativa</i> , L. ....	May 20		May 27
<i>Atchemora rigida</i> , DC. ....		July 22	
I have never seen any published notice of one peculiarity of this species. The 6-10 fibrous roots proceeding from the base of the stem bear at their extremities roundish tubers something like those of <i>Apios tuberosa</i> , varying in size with the age of the plant, the larger ones an inch or more in thickness.			
<i>Thaspium barbinode</i> , Nutt. ....			June 11
<i>aureum</i> , var. <i>apterum</i> , Gr.			
<i>trifoliatum</i> , Gray. ....			
<i>Zizia integrifolia</i> , DC. ....		May 18	May 25
<i>Cicuta maculata</i> , L. ....	June 27		June 25
<i>Sium lineare</i> , Mx. ....	July 26 Sept 20		
<i>Cryptotaena Canadensis</i> , DC.			June 12
<i>Chaerophyllum procumb.</i> , Lam.			
<i>Osmorrhiza longistylis</i> , DC. ....	May 14		

CUCURBITACEÆ	1871.	1872.	1873.
<i>Sicyos angulatus</i> , L. ....	Aug 2		Frost
<i>Echinocystis lobata</i> , T. & G.	Aug 5	Aug 3	
ARALIACEÆ			
<i>Aralia racemosa</i> , L. ....		July 17 Aug 13	
<i>quinquefolia</i> , Gray. ....			
CORNACEÆ			
<i>Cornus sericea</i> , L. ? ....			
<i>asperifolia</i> , Mx. ....			
<i>paniculata</i> , L'Her. ....	May 27 June 12		
<i>alternifolia</i> , L. ....	May 12 May 18	May 25 May 30	May 30
CAPRIFOLIACEÆ			
<i>Lonicera parviflora</i> , Lam. ....	May 14 May 26	May 28	
<i>Triosteum perfoliatum</i> , L. ....	May 20	May 15 Jun 25	June 1
<i>Sambucus Canadensis</i> , L. ....	June 1	June 10 Aug 7	June 20
<i>Viburnum Lentago</i> , L. ....			May 24
RUBIACEÆ			
<i>Galium concinnum</i> , T. & Gr.	June 5	June 11 July 18	June 12
<i>trifidum</i> , L. ....			June 3
<i>triflorum</i> , Mx. ....	May 7 Sept		Aug 25
<i>circæzans</i> , Mx. ....			
<i>Cephalanthus occidentalis</i> , L.	July 8 Aug 7	June 29 Aug 25	
COMPOSITÆ			
<i>Vernonia fasciculata</i> , Mx. ....	July 20	July 24	July 27 Frost
<i>Liatris cylindracea</i> , Mx. ....	July 27 Sept 18	Aug 2	Aug 5
<i>scariosa</i> , Willd. ....	Aug 11		Frost
<i>pycnostachya</i> , Mx. ....	July 20	Aug 1	July 24
<i>Kuhnia eupatorioides</i> , L. ....	Aug 1	Aug 18	
<i>Eupatorium purpureum</i> , L. ....	July 29		Frost
<i>altissimum</i> , L. ....			
<i>perfoliatum</i> , L. ....	July 23 Sept 3		
<i>serotinum</i> , Mx. ....		Aug 10	Aug 11 Frost
<i>ageratoides</i> , L. ....	July 19		Aug 7 Frost
<i>Aster corymbosus</i> , Ait. ....	Sept 1		
<i>senecus</i> , Vent. ....	Sept 1	Sept 3	Frost
<i>lævis</i> , L., var. <i>lævigatus</i> .	Sept 5		Frost
<i>azureus</i> , Lindl. ....			Frost
<i>Shortii</i> , Boott. ....			Frost
<i>sagittifolius</i> , Willd. ....			Frost
<i>Drummondii</i> , Lindl. ....		Sept 10	Frost
<i>multiflorus</i> , Ait. ....		Sept 12	Frost
<i>dumosus</i> , L. ....			Frost
<i>misci</i> , Ait. ....			Frost
<i>simplex</i> , Willd. ....			Frost
<i>punicus</i> , var. <i>viminens</i> ?			
<i>oblongifolius</i> , Nutt. ....	Sept 13	Sept 14	Frost
<i>Novæ-Angliæ</i> , L. ....	Sept 5		
<i>ptarmicoides</i> , T. & Gray. ....			Aug 6



COMPOSITÆ	1871.	1872.	1873.
<i>Eriogon Canadense</i> , L. ....	July 10	July 18	Frost
<i>divaricatum</i> , Mx. ....		June 12	Frost
An erect form is sometimes scarcely distinguishable from depauperate forms of <i>E. Canadense</i> .			
<i>bellidifolium</i> , Muhl. ....	May 10	May 11	June 21
<i>Philadelphicum</i> , L. ....	May 9	May 17	July 20
<i>annuum</i> , Pers. ....	May 30	June 8	May 26
<i>strigosum</i> , Muhl. ....	May 22	May 28	June 1
<i>Diplopappus linatifol</i> , Hook		Sept 3	Frost
<i>Boltonia glastifolia</i> , L'Her. ...	July 26	July 27	Frost
<i>Solidago latifolia</i> , L. ....	Sept 1		Frost
<i>speciosa</i> , Nutt. ....			Aug 6
<i>rigida</i> , L. ....	Aug 13		Frost
<i>patula</i> , Muhl. ....			Frost
<i>arguta</i> , Ait. ....			Aug 6
<i>ulmifolia</i> , Muhl. ....	Sept 4		Frost
<i>nemorals</i> , Ait. ....		Aug 15	Frost
<i>radula</i> , Nutt. ....		Sept 14	Frost
<i>Canadensis</i> , L. ....	Aug 10		Frost
<i>lanceolata</i> , L. ....			Frost
<i>Polymnia Canadensis</i> , L. ....	June 15	June 21	Frost
<i>Silphium laciniatum</i> , L. ....	July 3	July 4	June 28
<i>terebinthaceum</i> , L. ....			Aug 20
<i>integrifolium</i> , Mx. ....	July 15	Sept 8	July 2
Leaves often obscurely serrate, sometimes in threes			
<i>perfoliatum</i> , L. ....	July 15	Sept 3	July 3
<i>Parthenium integrifolium</i> , L. ....	June 9	June 18	Aug 16
<i>Ambrosia trifida</i> , L. ....	Sept 12	July 19	Sept 20
<i>artemisiæfolia</i> , L. ....	July 23	July 26	
<i>psilostachya</i> , DC. ....	July 23	July 28	Frost
<i>Xanthium strumarium</i> , L. ....	Aug 4		Frost
<i>Eclipta procumbens</i> , Mx. ....			Frost
<i>Echinacea angustifolia</i> , DC. ....	June 5	July 12	June 9
<i>Rudbeckia laciniata</i> , L. ....			July 19
<i>subtomentosa</i> , Pursh. ....	July 28	Sept 15	June 23
<i>triloba</i> , L. ....	July 26	Sept 30	Aug 20
<i>hirta</i> , L. ....	June 6	June 14	July 26
<i>Lepachys pinnata</i> , T. & Gr. ...	Aug 20	July 4	June 16
<i>Helianthus annuus</i> , L. ....	July 1	July 16	Frost
<i>rigidus</i> , Desf. ....	Aug 5	Aug 1	Aug 1
<i>lætiflorus</i> , Pers. ....	July 1		Aug 2
<i>occidentalis</i> , Riddell. ....	July 22	July 19	Aug 2
<i>grosse-serratus</i> , Martens. ....	Aug 20	July 22	Frost
<i>strumosus</i> , L. ....			Frost
<i>Coreopsis palmata</i> , Nutt. ....	June 8	Aug 11	June 18
<i>tripteris</i> , L. ....	Aug 6	Sept 28	Aug 6
<i>aristosa</i> , var. <i>mutica</i> , Gr. ....			Frost
<i>trichosperma</i> , Mx. ? ....			Frost
<i>discoidea</i> , T. & Gr. ....			Frost

COMPOSITÆ	1871.	1872.	1873.
<i>Actinomeris squarrosa</i> , Nutt. ....		Aug 5	
<i>Bidens frondosa</i> , L. ....	Aug 14	Aug 13	Frost
<i>connata</i> , Muhl. ....			Frost
<i>cernua</i> , L. ....			Frost
<i>Dysodia chrysanthemoides</i> Lag. ....	Aug 9	Aug 16	Frost
<i>Helenium autumnale</i> , L. ....	July 30	Aug 2	Frost
<i>Marrubia Cotula</i> , DC. ....	June 1	June 14	Frost
<i>Achillea Millefolium</i> , L. ....	May 20	May 25	May 27
<i>Tanacetum vulgare</i> , L. ....		July 12	Frost
<i>Artemisia caudata</i> , Mx. ....	Aug 6	Sept	
<i>Ludoviciana</i> , Nutt. ....		July	
<i>biennis</i> , Willd. ....		Sept	Frost
<i>Gnaphalium polycephal.</i> , Mx. ....			
<i>Antennaria plantagin.</i> , Hook. ....	April 4	May 6	April 25
<i>Erechtithes hieracifolia</i> , Raf. ....	Aug 9	May 14	May 14
<i>Cacalia tuberosa</i> , Nutt. ....		July 7	June 28
<i>atriplicifolia</i> , L. ....	July 22	Sept 17	Aug 4
<i>Senecio aureus</i> , L. ....	April 24	May 6	June 15
<i>var. Balsanette</i> , Gray. ....	Included in above figures.		May 17
<i>Cirsium lanceolatum</i> , Scop. ...	June 26	July 13	June 14
<i>discolor</i> , Spreng. ....			Frost
<i>altissimum</i> , Spreng. ....	Aug 10	Aug 9	Aug 14
<i>pinulum</i> , Spreng. ....		June 10	July 17
<i>Lappa officinalis</i> , Alhoni. ....	July 4	Sept 25	July 29
<i>Cynthia Virginica</i> , Don. ....	May 14	May 25	June 27
<i>Troximon cuspidatum</i> , Pursh. ....		May 3	May 25
Now nearly extinct here.			
<i>Hieracium scabrum</i> , Mx. ....			May 6
<i>-longipilum</i> , Torrey. ....	July 30	July 23	May 27
<i>Nabalus albus</i> , Hook. ....	Aug 14		Frost
<i>racemosus</i> , Hook. ....			Frost
<i>asper</i> , Torr. & Gray. ....		Sept 10	
<i>Taraxacum Dens-leonis</i> , Desf. ....	April 12	July 10	May 3
<i>Lactuca Canadensis</i> , L. ....		July 8	July 8
<i>Mulgedium Floridanum</i> , DC. ....			May 5
LOBELIACEÆ			
<i>Lobelia cardinalis</i> , L. ....	July 25	July 27	Frost
<i>syphilitica</i> , L. ....		Aug 17	Frost
<i>inflata</i> , L. ....		July 25	Frost
<i>spicata</i> , Lam. ....	June 1	June 2	July 29
CAMPANULACEÆ			
<i>Campanula apaiinoides</i> , Pursh. ....		July 10	
<i>Americana</i> , L. ....	July 6	Sept 30	July 23
<i>Specularia perfoliata</i> , A. DC. ....	June 2	June 6	June 30
		June 11	June 11
ERICACEÆ			
<i>Monotropa uniflora</i> , L. ....			



PLANTAGINACEÆ	1871.	1872.	1873
<i>Plantago major</i> , L . . . . .	June 19		Jun 25
<i>Virginica</i> , L ? . . . . .			
EBENACEÆ			
[ <i>Diospyros Virginiana</i> , L . . .			
said to be found on islands in the Mississippi four miles south of Oquawka, on the Iowa side. (I have seen fruit from this station) It may grow on the Illinois side, also.			
PRIMULACEÆ			
<i>Dodecatheon Meadia</i> , L . . . .	April 25	May 20!	May 15 June 7
<i>Lysimachia thyrsiflora</i> , L . . . .		May 22	
<i>stricta</i> , Ait. . . . .			
<i>ciliata</i> , L . . . . .	June 8	June 17	Agst 12!
<i>lanceolata</i> , Walt . . . . .		July 11	Aug 27!
<i>longifolia</i> , Pursh . . . . .	July 6	July 9	Aug 2!
LENTIBULACEÆ			
<i>Utricularia vulgaris</i> , L . . . .			
BIGNONIACEÆ			
<i>Tecoma radicans</i> , Juss. . . . .	June 8	Aug 1	June 24
<i>Martynia proboscidea</i> , Glox. . .	June 6	June 13	June 25 Frost
OROBANCHACEÆ			
<i>Aphyllon uniflorum</i> , T. & G.			
SCROPHULARIACEÆ			
<i>Verbascum Thapsus</i> , L . . . .	June 7	June 24	Frost
<i>Linaria Canadensis</i> , Spreng . .	April 25	May 26	May 20
<i>vulgaris</i> , Mill . . . . .	May 18	June 4	June 12 Frost
<i>Scrophularia nodosa</i> , L . . . .	May 19	May 19	May 23 Frost
<i>Chelone glabra</i> , L . . . . .	Aug 26		Frost
<i>Pentstemon pubescens</i> , Sol. . .	May 14	July 2	May 16 June 24
<i>Digitalis</i> , Nutt. . . . .	June 6	June 9	June 26
<i>grandiflorus</i> , Fraser . . . .	May 18	June 6	May 25 Jun 15!
<i>Mimulus ringens</i> , L . . . . .	July 1	July 8	Frost
<i>Conoclea multifida</i> , Benth. . . .		July 28	Frost
<i>Gratiola Virginiana</i> , L . . . .			June 1 Frost
<i>sphaerocarpa</i> , Ell. . . . .			Frost
<i>Ilysanthes gratioides</i> , Benth . . .		May 24	Frost
<i>Synthyris Houghtoniana</i> , " . . .	April 9	May 25	April 26 May 30
<i>Veronica Virginica</i> , L . . . . .	July 3	July 15	Sept 10!
<i>Anagallis</i> , L . . . . .	June 3		
<i>peregrina</i> , L . . . . .	April 24	May 2	June 26!
<i>Seymeria macrophylla</i> , Nutt. . .	July 29	Aug 4	May 11
<i>Geirardia purpurea</i> , L . . . . .		Aug 15	Frost
<i>tennifolia</i> , Vahl . . . . .		Aug 12	Aug 12 Frost
<i>pedicularia</i> , L . . . . .		Aug 3	Sept 22!
<i>auiculata</i> , Mx. . . . .		Sept 1	Sept 20
<i>Castilleja coccinea</i> , Spreng . . .	May 12	May 12	July 8
<i>Pedicularis Canadensis</i> , L . . .		May 2	May 30
<i>lanceolata</i> , Mx. . . . .	Aug 28		Jun 10!
			Frost

ACANTHACEÆ	1871	1872	1873
<i>Dianthera Americana</i> , L . . . . .		June 18	Aug 20
<i>Ruellia ciliolosa</i> , Nees . . . . .	June 6	Sept 30	June 25
<i>strepera</i> , Nees . . . . .	June 3	June 18!	Sept 20!
			June 21
			June 25
VERBENACEÆ			
<i>Verbena hastata</i> , L . . . . .	June 15	June 25	Frost
<i>urticifolia</i> , L . . . . .	June 21	July 2	Frost
<i>biacteosa</i> , Mx. . . . .	May 16	April 25	June 2 Frost
<i>stricta</i> , Vent . . . . .	June 7	June 18	Jun 21 Frost
Flowers sometimes white—very rarely rose colored!			
<i>Lippia lanceolata</i> , Mx. . . . .	June 15	June 24	Frost
<i>Phytolacca leptostachya</i> , L . . . .	June 22	Sept 15!	July 9
			June 29
LABIATÆ			
<i>Tenckium Canadense</i> , L . . . . .	June 15	Sept 20!	June 24
<i>Isanthus cæruleus</i> , Mx . . . . .			Frost
<i>Mentha Canadensis</i> , L . . . . .			
<i>pipperita</i> , L . . . . .			
<i>Lycopus Virginicus</i> , L . . . . .			
<i>Europæus</i> , L . . . . .			
<i>Pycnanthemum pilosum</i> , Nutt . . .	July 15	Sept 30	July 22
<i>lanceolatum</i> , Pursh . . . . .		Sept 15	July 4
<i>humifolium</i> , Pursh . . . . .	June 17		July 1
<i>Hedeoma hispida</i> , Pursh . . . . .			July 4
<i>pulegioides</i> , Pers. . . . .			May 25
<i>Monarda punctata</i> , L . . . . .	June 27		July 3
<i>fistulosa</i> , L . . . . .	June 25	Aug 22	June 29
<i>Chenopodia</i> , L . . . . .			Aug 29!
			July 3
Prof. GRAY now considers this to be distinct from <i>M. fistulosa</i> .			
<i>Lophanthus scrophularia</i> , Benth . .	July 23	Sept 25	
<i>Blephilia hirsuta</i> , Benth. . . . .	June 25	Aug 31	July 12
<i>Nepeta Catana</i> , L . . . . .		Sept 15!	June 25
<i>Physostegia Virginiana</i> , Benth . .			July 25
<i>Brinnella vulgaris</i> , L . . . . .			Frost
<i>Scutellaria versicolor</i> , Nutt. . . .	June 3		June 17
<i>latiflora</i> , L . . . . .	July 10		Jun 28!
<i>pavula</i> , Mx. . . . .	May 17		May 23
<i>var mollis</i> , Gray, ined . . . . .			Jun 27!
			May 26
Frequent along the steep, sandy banks of the Mississippi a mile north of Oquawka, and northward			
<i>Matrubium vulgare</i> , L . . . . .			Frost
<i>Stachys palustris</i> , L . . . . .			June 12
<i>var aspera</i> , Gray . . . . .	June 6		June 24
<i>var glabra</i> , Gray . . . . .			Frost
<i>Leonurus Cadiaca</i> , L . . . . .	May 25	Aug 30	June 5
			June 5
POLEMONIACEÆ			
<i>Polemonium reptans</i> , L . . . . .		May 2	May 27
<i>Phlox pilosa</i> , L . . . . .	May 3	June 10	May 11
<i>divaricata</i> , L . . . . .	April 16	May 20	June 1
			May 2
			June 23
			May 8
			June 9
			May 22
			Jun 19
			May 10
			June 6



## BORRAGINACEÆ

1871.

1872.

1873.

<i>Symphytum officinale</i> , L. . . . .		June 9		
<i>Onosmodium Carolinum</i> , DC.	June 4 July 30	June 16 July 20		Agt 10!
<i>Lithospermum latifolium</i> , Mx.				
<i>hirtum</i> , Lehm. . . . .	April 16	May 1 July 30	April 29	
<i>canescens</i> , Lehm. . . . .	April 22	May 1 June 25	April 30	
<i>angustifolium</i> , Mx. . . . .	May 7	May 4		

(*L. longiflorum*, Spreng.) Mr. M. S. BESS has made the discovery that the specific name "*longiflorum*" can only be properly applied to the early flowering plant. Later in the season the flowers grow smaller and the plant becomes *L. angustifolium*, Mx. the other name.

<i>Mertensia Virginica</i> , DC. . . . .	April 6 May 18	April 28 June 1	April 30 May 30	
<i>Echinopspermum Lappula</i> Lehm.	May 28	May 16		Frost
<i>Cynoglossum officinale</i> , L. . . . .	May 11	May 17	May 21	Aug
<i>Morisoni</i> , DC. . . . .	June 29 Sept 15	July 12		

## HYDROPHYLLACEÆ

<i>Hydrophyllum Virginicum</i> , L.			June 17	
<i>appendiculatum</i> , Mx. . . . .	May 7 June 10	May 18 June 15!		
<i>Ellisia Nyctelea</i> , L. . . . .	April 24	May 6 June 20	May 10	

## CONVOLVULACEÆ

<i>Ipomœa lacunosa</i> , L. . . . .				Frost
<i>pandurata</i> , Meyer. . . . .		July 1 Aug 16!		
<i>Calystegia sepium</i> , R. Br. . . . .	June 5 Sep 20!		June 11	
<i>Bonania Pickeringii</i> , Gray . . . . .				Frost
Common on a sandy prairie four miles north of Oquawka				
<i>Cuscuta tenuiflora</i> , Engelm. . . . .	Aug 4 Sept 4!	Aug 12	Aug 12	
<i>glomerata</i> , Choisy . . . . .	July 29 Sep 18!	Aug 4	Aug 4	

## SOLANACEÆ

<i>Solanum Dulcamara</i> , L. . . . .		June 6 Aug 1		
<i>nigrum</i> , L. . . . .		June 20		Frost
<i>Carolinense</i> , L. . . . .	June 1	June 25		Frost
<i>Physalis Philadelphica</i> , Lam.				
<i>pubescens</i> , L. ? . . . . .				
<i>viscosa</i> , L. . . . .				
<i>Pennsylvanica</i> , L. . . . .				
<i>var. lanceolata</i> , Gray. . . . .				
<i>Nicandra physaloides</i> , Gaertn.		July 25		Frost
<i>Lycium vulgare</i> , Dunal. . . . .	April 24	May 2		Frost
<i>Datura Tatula</i> , L. . . . .	June 19	June 7		Frost

## GENTIANACEÆ

<i>Gentiana 5 flora</i> , v. <i>occident.</i>	Sept 8			Frost
<i>Andrewsii</i> , Griseb. . . . .	Sept 15			Frost
<i>puberula</i> , Mx. . . . .	Sept 11			Frost

## APOCYNACEÆ

<i>Apocynum cannabinum</i> , L. :				
<i>var. hypericifolium</i> , Gr.		June 16 Aug 1	June 16	
<i>var. glaberrimum</i> , Gr. . . . .	June 4			
<i>androsæmifolium</i> , L. . . . .	June 4	June 18 July 14		

## ASCLEPIADACEÆ

1871.

1872.

1873.

<i>Asclepias Connati</i> , Decaisne. . . . .	June 8 Sept 4!	June 20	June 22	
<i>phytolaccoides</i> , Pursh. . . . .	May 28 Jun 20!	June 23	June 17	
<i>purpurascens</i> , L. . . . .	June 5 June 26	June 17		
<i>quadrifolia</i> , Jacq. . . . .				June 12
<i>incarnata</i> , L. . . . .	June 28 Sept 2!	July 4		
<i>obtusifolia</i> , Mx. . . . .	June 1 June 18	June 6	May 9	
<i>tuberosa</i> , L. . . . .	June 5 Aug 14	June 25 Aug 28!	June 23	
<i>verticillata</i> , L. . . . .	July 1	July 3 Aug 20!		Aug 15
<i>Aceites vuidiflora</i> , Ell. . . . .	June 3	June 15 Aug 19		
<i>longifolia</i> , Ell. . . . .	July 6	July 10 Aug 14		

## OLEACEÆ

<i>Fraxinus Americana</i> , L. . . . .	April 7 April 30	April 27 May 5	May 18	
<i>quadrangulata</i> , Mx. . . . .				

## ARISTOLOCHIACEÆ

<i>Asarum Canadense</i> , L. . . . .	April 24	May 2 Jun 25!	May 12	
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## NYCTAGINACEÆ

<i>Oxybaphus nyctagineus</i> , Sw. . . . .	May 18	May 21	June 1	Frost
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## CHENOPODIACEÆ

<i>Cyclolema platyphyllum</i> , Moq . . . . .	July 1			Frost
<i>Chenopodium album</i> , L. . . . .	June 15	June 17		Frost
<i>hybridum</i> , L. . . . .				
<i>Botrys</i> , L. . . . .	June 15	June 7		Frost
<i>ambrosioides</i> , L. . . . .				
<i>var. anthelminticum</i> Gr . . . . .		Aug 10		Frost

## AMARANTACEÆ

<i>Amarantus retroflexus</i> , L. . . . .		July 10		Frost
<i>albus</i> , L. . . . .				Frost
<i>Montelia tamariscina</i> , Gr. . . . .		July 7		Frost
<i>var. concatenata</i> , Gr. . . . .				Frost
<i>Frœlichia Floridana</i> , Moq. . . . .		July 2		Frost

## POLYGONACEÆ

<i>Polygonum incarnatum</i> , Ell. . . . .	June 16	July 1		Frost
<i>Pennsylvanicum</i> , L. . . . .	June 14	July 1		Frost
<i>Persicaria</i> , L. . . . .	June 11	June 28		Frost
<i>Hydropiper</i> , L. . . . .		July 7		Frost
<i>acere</i> , H. B. K. . . . .				Frost
<i>hydropiperoides</i> , Mx. . . . .				Frost
<i>amphibium</i> , L. . . . .		July 15 Sept 1		
<i>Virginianum</i> , L. . . . .	July 20	July 9		
<i>aviculare</i> , L. . . . .	May 26			Frost
<i>var. erectum</i> , Roth. . . . .				Frost
<i>ramosissimum</i> , Mx. . . . .	July 25			Frost
<i>tenne</i> , Mx. . . . .	July 20	July 20		Frost
<i>Convolvulus</i> , L. . . . .		June 27		Frost
<i>dumetorum</i> , L. . . . .				Frost



POLYGONACEÆ	1871.	1872.	1873.
<i>Rumex Britannica</i> , L.....			
<i>verticillatus</i> , L.....			
<i>crispus</i> , L.....			
<i>Acetosella</i> , L.....	May 13	Sept 20	May 6
SANTALACEÆ			
<i>Comandra umbellata</i> , Nutt..	May 9	May 6	Jun 12
EUPHORBIACEÆ			
<i>Euphorbia Geyeri</i> , Engelm..			Frost
<i>maculata</i> , L.....		June 24	Frost
<i>humistrata</i> , Engelm.....		Aug 12	Frost
<i>hypocifolia</i> , L.....	June 26	June 28	Frost
<i>conollata</i> , L.....	June 7	June 6	June 26
<i>dentata</i> , Mx.....			Frost
<i>Acalypha Virginica</i> , L.....			
var <i>gracilens</i> , Gray...			
<i>Croton glandulosus</i> , L.....	June 16	June 24	Frost
URTICACEÆ			
<i>Ulmus fulva</i> , Mx.....	Mch 20	April 2	April 13
<i>Americana</i> , L.....	Mch 19	Mch 31	April 10
<i>Celtis occidentalis</i> , L.....			April 22
<i>Morus tinba</i> , L.....	May 1	May 15	May 8
<i>Laportea Canadensis</i> Gaudi			May 18
<i>Pilea pumila</i> , Gray.....			
<i>Bœhmia cylindrica</i> , Jacq..	June 25		
<i>Parietaria Pennsylvan</i> , Muhl			May 24
<i>Cannabis sativa</i> , L.....		July 18	
<i>Humulus Lupulus</i> , L.....		Aug 5	
PLATANACEÆ			
<i>Platanus occidentalis</i> , L.....		May	
JUGLANDACEÆ			
<i>Juglans nigra</i> , L.....			
<i>cineea</i> , L.....			
<i>Carya olivæformis</i> , Nutt.....			
<i>alba</i> , Nutt.....		May 10	
<i>sulcata</i> , Nutt.....			
<i>tomentosa</i> , Nutt.....			
<i>amara</i> , Nutt.....			
CUPULIFERÆ			
<i>Quercus alba</i> , L.....			
<i>macrocarpa</i> , Mx.....			
<i>bicolor</i> , Willd.....			
<i>Prius</i> , L var <i>acuminata</i>			
<i>nigra</i> , L.....	April 24	May 14	
<i>coccinea</i> , Wang.....			
var <i>tinctoria</i> , Gray...			
<i>rubra</i> , L.....			
<i>palustris</i> , Du Roi.....		May 5	

CUPULIFERÆ	1871	1872.	1873
<i>Corylus Americana</i> , Walt... Mch 11	Mch 21	April 4	April 19
<i>Ostrya Virginica</i> , Willd... April 12	April 25		May 6
<i>Carpinus Americana</i> , Mx....			
BETULACEÆ			
<i>Betula nigra</i> , L.....	April 9	April 25	May 7
SALICACEÆ			
<i>Salix humilis</i> , Marshall.....			
<i>discolor</i> , Muhl.....	Mch 21	April 3	April 8
<i>cordata</i> , Muhl.....			April 20
<i>nigra</i> , Marshall.....			April 3
var <i>amygdaloides</i> ...			April 17
<i>longifolia</i> , Muhl.....			April 30
<i>lucida</i> , Mx.....			May 1
<i>Populus tremuloides</i> , Mx... Mch 13	Mch 23	April 5	April 17
<i>monilifera</i> , Ant.....	April 4	April 8	April 19
			April 26
			May 6
CONIFERÆ			
<i>Juniperus Virginiana</i> , L....			
ARACEÆ			
<i>Arisaema triphyllum</i> , Torr... April 25		May 7	
<i>Dracontium</i> , Schott... May 11			
<i>Symplocarpus foetidus</i> , Salisb	Mch 9	Mch 31	April 5
<i>Acorus Calamus</i> , L.....			April 17
			April 1
			June 1
TYPHACEÆ			
<i>Typha latifolia</i> , L.....			
<i>Sparganium emycarpum</i> , Eng	May 12		June 1
NAIADACEÆ			
<i>Zanichellia palustris</i> , L....			
<i>Potamogeton natans</i> , L....			
<i>hybridus</i> , Mx.....			
ALISMACEÆ			
<i>Alisma Plantago</i> , v Am, Gt			
<i>Sagittaria variabilis</i> , Engelm.			Frost
<i>calycina</i> , Engelm.....			
<i>heterophylla</i> , Pursh...			
<i>grammea</i> , Mx.....			
ORCHIDACEÆ			
<i>Ochilus spectabilis</i> , L.....		May 11	
<i>Spiranthes ceruza</i> , Richard..		Sept 14	Frost
<i>gracilis</i> , Bigelow.....	Aug 8	Sept 8	
<i>Calopogon pubellus</i> , R Br.		June 9	July 1
<i>Microstylis ophioglossoides</i> , N		June 10	
<i>Liparis hirsuta</i> , Richard...		June 1	June 25
<i>Coniolorhiza odontorhiza</i> , Nutt		June 8	
<i>Cypripedium canidum</i> , Muhl	Sep 26		
<i>pubescens</i> , Willd.....	May 20	May 19	
<i>specabile</i> , Swartz.....	June 12	June 9	June 26
			June 12



HYDROCHARIDACEÆ	1871.	1872.	1873.
Anacharis Canadensis, Planch			
AMARYLLIDACEÆ			
Hypoxys erecta, L.....	May 5	May 9	June 14 May 10
IRIDACEÆ			
Iris versicolor, L.....	May 15	June 20	May 24 June 22 May 31 June 25
Sisyrinchium Bermudiana, L:	April 29		May 4 June 16 May 14
var. mucronatum, Gr.			
var. albidum, Gray...			
DIOSCOREACEÆ			
Dioscorea villosa, L.....		June 19	
SMILACEÆ			
Smilax hispida, Muhl. ....			May 19 May 29
herbacea, L.....	May 6	June 18 <sup>1</sup>	May 16 June 26 <sup>1</sup>
LILIACEÆ			
Tritium tecuatum, Beck.	April 12	May 15	May 1 June 1 May 6
erectum, var. declinatum.	April 22		May 4
Melanthium Virginicum, L.			June 26
Uvularia grandiflora, Smith	April 18	May 12 <sup>1</sup>	May 12 April 30
Smilacina racemosa, Desf ...			May 25 June 12 <sup>1</sup>
stellata, Desf.....	May 13	May 23	May 12
Polygonatum biflorum, Ell.,			
giganteum, Dietrich...			
Lilium Philadelphicum, L.	June 1		June 13 June 30 June 12
superbum, L.....			July 3 July 2
Erythronium albidum, Nutt.	April 7	April 28	April 25 May 10 April 29
Scilla Fraseri, Gray.....	May 7	May 25	May 14 May 27 May 30 June 9
Allium Canadense, Kalm....			
JUNCACEÆ			
Juncus bufonius, L. ....			
nodosus, v megacephalus			
tenuis, Willd.....			
PONTEDERIACEÆ			
Pontederia cordata, L.....	June 12		
Schollera graminea, Willd...			
COMMELYNACEÆ			
Commelina Virginica, L....		June 27	Sept <sup>1</sup> Jun 29 <sup>1</sup>
Tradescantia Virginica, L...	May 21	Sept 10 <sup>1</sup>	May 20 May 28

## CYPERACEÆ.

Cyperus diandrus, Torr.  
 erythrorhizos, Muhl  
 inflexus, Muhl  
 acuminatus, Torr  
 phymatodes, Muhl  
 strigosus, L  
 Michauxianus, Schultes  
 Schweinitzi, Torr.  
 filiculmis, Vahl.  
 Hemicaulpa subquarosa, Nees.  
 Eleocharis obtusa, Schultes  
 Engelmanni, Steud var. detonsa,  
 [Gray ined

Mississippi bottoms, 1 mile south of Oquawka—  
 rare—with E obtusa. Distinguished from that  
 species by its cylindrical spikes and the short  
 bristles of the perianth stigmas 2. Bristles  
 abortive or only their bases present in the var.

palustris, R. Br  
 intermedia, Schultes  
 acicularis, R. Br  
 Scirpus validus, Vahl.  
 fluviatilis, Gray  
 atrovirens, Muhl  
 lineatus, Michx  
 Eriophorum, Michx  
 Fimbristylis capillaris, Gray  
 autumnalis, R & S  
 spadicea, var. castanea, Gr.

One mile south of Oquawka. Also in Hancock  
 county, Dr. S. B. Mead; Kankakee county,  
 Prof E. J. Hill.

Scleria triglomerata, Mx

## CAREX

(My Carexes were all submitted to, and deter-  
 mined by, Mr M. S. Bess.)

C vulpinoidea, Michx  
 crus-corvi, Shuttlew.  
 stipata, Muhl  
 sparganioides, Muhl  
 cephaloides, Dew.  
 cephalophora, Muhl  
 rosea, Schk.  
 arida, Schw & Torr  
 straminea, Schk  
 aperta, Boott  
 stricta, Lam  
 Meadii, Dewey  
 grisea, Wahl.

Davisi, Schw. & Torr.  
 Pennsylvanica, Lam.  
 pubescens, Muhl  
 lanuginosa, Michx.  
 trichocarpa, var. imberbis, Gray  
 hystriena, Willd.  
 Grayi, Carey.  
 lupulina, Muhl.  
 squarrosa, L  
 utticulata, Boott  
 longirostris, Torrey

## GRAMINEÆ.

Leersia Virginica, Willd  
 oryzoides, Swartz.  
 lenticularis, Michx.  
 Zizania aquatica, L.  
 Alopecurus geniculatus, L.  
 Phleum pratense, L  
 Vilfa aspera, Beauv  
 vaginiflora, Torr.  
 Sporobolus heterolepis, Gray.  
 cryptandrus, Gray.  
 Agrostis perennans, Tuck.  
 scabra, Willd.  
 Cynna arundinacea, L.  
 Muhlenbergia glomerata, Trin.  
 Mexicana, Trin.  
 diffusa, Schreb  
 Brachyelytrum aristatum, Beauv  
 Stipa spartea, Trin  
 Aristida gracilis, Ell.  
 tuberculosa, Nutt  
 Spartina cynosuoides, Willd  
 Bouteloua hirsuta, Lagasca.  
 curtipendula, Gray  
 Eleusine Indica, Gærtn.  
 Tricuspis ceslerioides, Torr.  
 paupurea, Gray.

Sandy Prairies and Oak Barrens, with Bouteloua  
 hirsuta, Panicum autumnale, &c, common

Koeleria cristata, Pers.  
 Eatonia obtusata, Gray.  
 Melica nutica, Walt.  
 Glycemia nervata, Trin  
 fluitans, R. Brown  
 Poa pratensis, L.  
 sylvestris, Gray

