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Far Pasture

Pasture

Far Field

Swale ditch

Small Lower Field

Lower Field

Meadow

Vetch
Field

Calf lot

Orchard
and
Garden

Muddy Creek Bend

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Classified List of the Flowering Plants on a Benton County Farm.

The farm from which these plants were taken lies in Sections nine and four, south, Township thirteenth, Range five west. On the western boundary of the farm, the creek called Muddy makes a slight inward curve.

Along the creek is a heavy belt of deciduous timber. There are no evergreens native to the farm, though some, taken from the nearby hills, have been planted by us. The only heavy timber is found in the bend. The calflot is low, save for two small ridges. Both the meadow and the vetch field are low, the former more than the latter.

The orchard and the gardens are higher than the places before mentioned. They are located on a low hill, which slopes to the creek. The pasture is composed of ridges and swales, the lowest part being near the creek, though the central portion, and the eastern boundary are also low.

The lower fields are low, but the far field is ridge land. No plants were taken from the far pasture, which is swale land. Except along the creek bank, the pasture, garden, and lower field are un-
timbered, while there are only three trees in the far field. Some naturalized plants are mentioned, but all grow in uncultivated places, and are classed by us among the native species. In the catalogue, those marked c. are common, f.c., fairly common, and r., rare.

Ranunculaceae.

Ranunculus		Date.	Locality.
(buttercup) 1. orthorhyncus, c.		April 4, 1903,	by creek.
(palm buttercup) 2. douglasii, f.c.		" 11, "	near creek.
(marsh buttercup) 3. alismellis, c.		" 25, "	pasture.
Delphinium.			
(larkspur) 1. menziesii,	c.	May 9,	meadow.
Aquilegia.			
(columbine) 1. formosa,	c.	May 21,	calflot.

Berberidaceae.

(Oregon grape) Berberis			
1. aquifolium.	c.	April 1,	by creek.

Papaveraceae.

(California poppy) Eschscholtzia.			
1. californica,	r.	June 19,	garden.

Fumariaceae.

Dicentra.			
(bleeding heart) 1. formosa	f.c.	May 2,	bend.

Cruciferae.

Hasturtium.			
(plume ditch mustard) 1. curvisiliqua.	c.	May 21,	bend.
Dentaria.			
(rocket) 1. tenella,	c.	April 4,	vetch.

Brassica.

(mustard)	1. campestris,	f.o.	April 18,	lower field.
(black mustard)	2. nigra,	f.o.	" 4,	garden.

Cardamine.

	1. oligosperma,	f.o.	" 21,	meadow.
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Sisymbrium.

(hedge mustard)	1. officinale,	f.o.	June 14,	garden.
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Violaceae.

Viola.

(violet)	1. nuttallii,	f.c.	April 4,	by creek.
(Johnny jump-up)	2. glabella,	c.	" 4,	calflot.

Caryophyllaceae.

Alsine.

(chickweed)	1. media,	c.	April 4,	by creek.
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Silene.

(star tarweed)	1. scouleri,	f.c.	July 10,	garden.
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Cerastium.

(hairy chickweed)	1. vulgatum,	c.	May 9,	garden.
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Arenaria.

(sand-pink)	1. michauxii,	c.	July 25,	lower field.
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Portulacaceae.

Claytonia.

(swamp berries)	1. linearis,	f.c.	April 18,	orchard.
(spring beauty)	2. perfoliata	c.	" 18,	bend.
(Indian Lettuce)	3. sibirica,	c.	" 18,	bend.

Hypericaceae.

Hypericum

(goat weed) 1. *formosum* ^{*var. scoulerii*} f.c. June 19, vetch.

Malvaceae.

Sidalcea

(wild hollyhock) 1. *malvaeflora*, c. May 21, calflot.
 (white mallow) 2. *spicata*, c. June 12, calflot.
 (red mallow) 3. *oregana*, r. " 26, far field.

Geraniaceae.

Geranium

1. *carolinianum*, c. May 21, ga garden.
 (wild geranium) 2. *incisum*, c. May 9, calflot.

Erodium

(filaree) 1. *circutarium*, c. April 18, orchard.

Oxalidaceae.

Oxalis

(sheep sorrel) 1. *corniculata*, r. June 5, garden.

Rhamnaceae.

~~Rhamnus~~^{Rhamnus}

(chittam) 1. *purshiana*, c. May 21, bend.

Aceraceae.

Acer.

(maple) 1. *macrophyllum*, r. May 2, garden.
 (vine maple) 2. *circinatum*, f.c. June 19, bend.

Anacardiaceae.

Rhus

(poison oak) 1. diversiloba, c. June 5, bend.

Leguminosae.

Lupinus

(wild bean) 1. micranthus, c. May 2, calflot.

(wild sage) 2. polyphellus, c. May 21, vetch.

Cytisus

(scotch broom) 1. scoparius, r. June 5, garden.

Robinia

(locust) 1. hispida, r. June 5, garden.

Trifolium

(hedgehog clover) 1. tridentata, F.C. May 21, vetch.

(yellow clover) 2. hybridum, f. C. June 5, meadow.

(sweet clover) 3. repens, c. May 21, garden.

(red clover) 4. pratense, r. June 19, garden.

(owl clover) 5. eriocephalum, c. June 5, calflot.

Vicia

(white pea) 1. americana, c. May 9, garden.

(purple pea) 2. truncata, c. May 21, bend.

Lotus

1. micranthus, f.c. May 21, vetch.

2. americana, f.c. July 20, far field.

Amygdalaceae.

Prunus

(plum) 1. emarginata, f.c. May 2, bend.

Osmaronia

(Indian peach) 1. cerasiformis, c. April 4, bend .

Pomaceae.

Crataegus

(hawthorn) 1. douglasii, f.c. May 21, pasture.

Amelanchier

(service berry) 1. alnifolia, c. April 21, calflot.

Rosaceae.

Rosa

(wild rose) 1. nutkana, c. May 21, calflot.

Geum

(yellow rose) 1. macrophyllum, c. June 5, calflot.

Fragaria

(strawberry) 1. cuneifolia, C. April 4, calflot.

Potentilla

(yellow hair palm) 1. gracilis, c. May 21, calflot.

Horkelia

(white rose palm) 1. fusca, c. June 5, calflot.

Rubus

(thimble berry) 1. nutkanus, c. May 21, bend.

(black berry) 2. Wisinus, c. May 9, bend.

Physocarpus

(popping shrub) 1. opulifolia, c. June 5, bend.

Holodiscus

(arrow-wood) 1. ariaefolia, c. June 26, bend.

Spiraea

(hard hack) 1. douglasii, c. June 19, bend.

Poterium

(green head) 1. annuum, f.c. June 5, vetch.

Pirus

(wild crab)	1. rivularis, f.c.	May 9,	bend.
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Saxifragaceae.

Tellima

(fairy daisy)	1. parviflora, f.c.	April 18,	pasture.
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(lily of the valley geranium)

	2. grandiflora, f.c.	May 9,	garden.
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Saxifraga

(saxifrage)	1. grandiflora, c.	April 4,	calflot.
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Hydrangeaceae.

Philadelphus

(mock orange)	1. gordonianus, c.	June 19,	bend.
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Ribesaceae.

Ribes

(gooseberry)	1. divaricatum, f.c.	June 26,	bend.
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(flowering currant)	2. sanguineum, r.	April 4,	garden.
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Onagraceae.

Boisduvalia

(red spike)	1. densiflora, c.	June 19,	vetch.
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Godetia

(blue pod)	1. amoena, c.	June 19,	meadow.
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Epilobium

(red ditch mustard)	1. coloratum, f.c.	July 20,	meadow.
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(switches)	2. paniculatum, f.c.	July 20,	garden.
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(ditch mustard)	3. glaberrimum f.c.	May 21,	meadow.
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Cucurbitaceae.

Megarrhiza

(old man in the ground) 1. oregona, r. May 9, bend.

Umbelliferae.

Peucedanum

(salsify) 1. leiocarpum, c. April 4, meadow.

(yellowcarrot) 2. umbellarum, c. May 21, meadow.

Glycosma

(wash place plant) 1. ambiguum, f.c. May 9, garden..

Carum

(late white carrot) 1. gairdneri, f.c. July 26, pasture.

Ligusticum

(late white parsnip) 1. opulifolium, c. Aug. 21, far field.

Heraclium

(cow parsnip) 1. lanatum, r. June 5, bend.

Sanicula

(ugly carrot) 1. menziesii, f.c. May 21, calflot.

(brown carrot) 2. howellii, f.c. May 21, bend.

Leptotaenia

(large brown parsnip) 1. dissoluta, f.c. April 11, meadow.

Caprifoliaceae.

Caprifolium

(honeysuckle) 1. ciliatum, r. May 21, bend.

Sambucus

(elder) 1. glauca, r. July 18, bend.

Viburnum

(red berries) 1. ellipticum, c. June 5, calflot.

Symphoricarpus

(buck brush) 1. mollis, c. June 5, calflot.

Rubiaceae.

Galium

(robin run the hedge)	1. aparine, c.	May 9,	garden.
(small ")	1. trifidum, c.	June 26,	calflot.

Valerianaceae.

Valerianella

(matches)	1	1. congesta, c.	May 9,	bend.
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Compositae.

Eryngium

(spears and arrows)	1. petiolatum, c.	July 18,	calflot.
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Achillea

(yarrow)	1. millifolium, c.	June 5,	pasture.
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Senecio

(groundsel)	1. vulgaris, c.	May 9,	garden.
(flame head)	2. fastigatus, r.	June 5,	garden.

Taraxacum

(dandelion)	1. densleonus, c.	April 4,	pasture.
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Matricaria

(late dog fennel)	1. discoidea, f.c.	July 20,	garden.
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Scorzonella

(stalked dandelion)	1. procera, c.	June 26,	pasture.
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Centaurea

(bachelor button)	1. cyanus, r.	June 19,	garden.
(waste sticks)	2. melitensis, f.c.	July 25,	pasture.

Cnicus

(bull thistle)	1. lanceolata, c.	July 18,	pasture.
(cream thistle)	2. americanus, c.	June 19,	meadow.

Grindelia

(gum weed)	1. hirsuta, c.	June 19,	garden.
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(thorn roses)	2. nana,	r.	Aug. 24,	vetch.
<i>Solidago</i>				
(early golden rod)	1. elongata,	f.c.	June 26,	orchard.
(umbel golden rod)	2. occidentalis,	f.c.	July 18,	"
<i>Erigeron</i>				
(swan river daisy)	1. decumbens,	c.	June 5,	meadow.
(white ")	2. strigosus,	r.	July 26,	far field.
<i>Anaphalis</i>				
(everlasting)	1. margaritacea,	r.	July 20,	meadow.
<i>Balsamorhiza</i>				
(sunflower)	1. deltoidea,	c.	April 18,	bend.
<i>Media</i>				
(headed tar weed)	1. sativa,	c.	July 18,	far field.
<i>Artemisia</i>				
(silver golden rod)	1. vulgaris,	r.	Aug. 31,	garden.
<i>Crepis</i>				
(branching rose thistle)	1. virens,	c.	July 18,	garden.
<i>Troximon</i>				
(fall dandelion)	1. laciniatum,	f.c.	July 25,	pasture.
<i>Sonchus</i>				
(rose thistle)	1. oleraceus,	c.	June 19,	garden.
<i>Microseris</i>				
(late dandelion)	1. linearifolia,	f.c.	June 26,	pasture.
<i>Anthemis</i>				
(dog fennel)	1. cotula,	c.	June 5,	garden.
<i>Baeria</i>				
(yellow Swan river daisy)	1. gracilis,	c.	June 5,	calflot.
<i>Aster</i>				
(daisy)	1. hallii,	c.	Aug. 24,	calflot.
<i>Psilocarphus</i>				
(buttons)	1. tenellus,	c.	July 18,	pasture.

(floss weed) 2. oreganus, c. July 10, calflot.

Gnaphalium

(floss spike) 1. pureum, c. July 18, far field.

Lobeliaceae.

Bolelia

(lobelia) 1. pulchella, c. June 5, pasture.

Campanulaceae.

Legenzia

1. perfoliata, f.c. June 19, meadow.

Ericaceae.

Pleuricospora

(autumn orcus) 1. fimbriolata r. July 25, far field.

Primulaceae.

Dodecatheon

(bird bill) 1. meadia f.c. April 21, meadow.

Trientalis

(stars) 1. europaea, f.c. June 5, bend.

Oleaceae.

Fraxinus

(ash) 1. oregana, c. June 19, bend.

Apocynaceae.

Apocynum

(pink milk weed) 1. androsaemifolium, r. July 25, far field.

Asclepidaceae.

Asclepias

(milk weed)

1. speciosa, r. July 10, meadow.

(gardenia)

2. mexicana, r. July 25, far field.

Euphorbia

1. sirpyllifolia, f.c. July 18, far field.

Pelemoniaceae.

Gillia

1. tenella, c. May 9, meadow.

2. intertexa, c. June 19, meadow.

(puff balls)

3. capitata, c. June 19, vetch.

(torches)

4. grandiflora, f.c. June 5, garden.

Hydrophyllaceae.

Hydrophyllum

(heliotrope)

1. occidentalis, r. May 21, bend.

Nemophila

1. menziesii, f.c. April 15, bend.

Boraginaceae.

Myosotis

(forget-me-not)

1. verna, f.c. May 9, meadow.

Cynoglossum

(blue eyes)

1. grande, r. April 11, bend.

Cryptanthus

(scorpion)grass)

1. leiocarpa, c. May 2, pasture.

Amsinckia

(bristly scorpion grass) 1. intermedia, f.c. June 26, meadow.

Convolvulus

Convolvulaceae

(morning glory) ^

1. occidentalis, c. May 21, vetch.

Scrophulariaceae.

Mimulus
(monkey flower) I. luteus, f.c. June 5, meadow.

Linaria
(Toad flax) I. vulgaris, f.c. May 9, garden.

Orthocarpus
I. hispidus, c. June 5, meadow.
2. bracteosus, c. June 5, meadow.

Veronica
(smilax) I. americana, f.c. June 5, meadow.
(speed-well) 2. peregrina, f.c. June 5, bend.

Collinsia
(innocence) I. grandiflora, c. April 4, vetch.

Digitalis
(foxglove) I. purpurea, r. June 19, garden.

Labiatae

Labiatae.

Marrubium
(hoarhound) I. vulgare, r. July 20, garden.

Brunella
(horsemint) I. vulgaris, c. June 5, pasture.

Trichostema
(plumemint) I. lanceolatum, f.c. Aug. 24, calflot.

Mentha
(swampmint) I. canadensis, f.c. Aug. 24, bend.

Plantaginaceae.

Plantago
(plantain) I. lanceolata, c. May 2, garden.

(wild cabbage)

2. bigelovii, f.c. June 26, pasture.

Polygonaceae.

Rumex

(sorrel)

1. acetosella, c. May 2, lower field.

(dock)

2. crispus, c. June 5, meadow.

Polygonum

(buckwheat)

1. convolvulus, f.c. July 20, garden.

(goose-grass)

2. aviculare, f.c. July 10, garden.

3. polygaloides, r. July 25, lower field.

Amaranthaceae.

Amaranthus

(careless weed)

1. retroflexus, c. July 20, garden.

Chenopodiaceae.

Chenopodium

(lamb's quarter)

1. album, c. July 20, garden.

Urticaceae.

Urtica

(nettles)

1. lyallii, r. July 18, lower field.

Santalaceae.

Commandra

(woodherb)

1. umbellata, f.c. May 9, calflot.

Loranthaceae.

Phoradendron

(mistletoe)

1. villosum, c. Nov. 10, bend.

Fagaceae.

Quercus

(oak)

1. garryana, c. Nov. 10, bend.

Salicaceae.

Salix

(willow)

1. lassandra, f.c. May 2, garden.

Orchidaceae.

Cypripedium

(lady slipper)

1. montanum, r. May 21, bend.

Iridaceae.

Sisyrinchium

(blue eyed grass)

1. bellum c. May 21, vetch.

Liliaceae.

Muilla

(star of Bethlehem)

1. maritima c. June 19, vetch.

Allium

(onion)

1. attenuatum, f.c. June 5, meadow.

Brodiaea

(hyacinth)

1. howellii, c. June 5, vetch.

2. grandiflora, f.c. June 5, vetch.

3. congesta, c. May 26, meadow.

Camassia

(camas)

1. esculenta c. May 2, meadow.

Lilium

- | | | | |
|---------------------|-----------------------|----------|---------|
| (Oregon lily) | 1. washingtonianum r. | June 19, | garden. |
| (Oregon tiger lily) | 2. columbianum, r. | June 26, | bend. |

Fritillaria

- | | | | |
|---------------------|---------------------|--------|---------|
| (Guinea hen flower) | 1. lanceolata, f.c. | May 9, | garden. |
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Erythronium

- | | | | |
|-------------------|---------------------|----------|-------|
| (dogtooth violet) | 1. grandiflorum, c. | April 4, | bend. |
|-------------------|---------------------|----------|-------|

Calochortus

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|-------------|-------------|----|---------|----------|
| (cat's ear) | 1. tolmeii, | c. | May 21, | calflot. |
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Convallariaceae.

Vagnera

- | | | | |
|------------------|----------------------|--------|-------|
| (Solomon's seal) | 1. amplexicaulis, r. | May 9, | bend. |
| (fringe) | 2. sessifolia, r. | May 2, | bend. |

Melanthaceae.

Zygadenus

- | | | | |
|---------------|------------------|----------|----------|
| (death camas) | 1. venenosus, c. | June 19, | calflot. |
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Pinaceae.

Abies

- | | | | |
|-------------|-------------|---------|---------|
| (white fir) | 1. grandis, | May 19, | garden. |
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Pseudotsuga

- | | | | |
|-----------|---------------|---------|---------|
| (red fir) | 1. taxifolia, | May 26, | garden. |
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Among the results of this study may be mentioned the following classification of orders, with respect to the number of representatives of each:

Ranunculaceae-----5.	Umbelliferae-----9.
Berberidaceae-----1.	Caprifoliaceae-----4.
Papaveraceae-----1.	Rubiaceae-----2.
Cruciferae-----7.	Valerianaceae-----1.
Violaceae-----2.	Compositae-----32.
Caryophyllaceae-----4.	Campanulaceae-----1.
Portulacaceae-----3.	Ericaceae-----1.
Hypericaceae-----1.	Primulaceae-----2.
Malvaceae-----3.	Oleaceae-----1.
Geraniaceae-----3.	Apocynaceae-----1.
Oxalidaceae-----1.	Asclepidaceae-----3.
^a Rhmnaceae-----1.	Polemoniaceae-----4.
^k Aceraceae-----2.	Hydrophyllaceae-----2.
Anacardiaceae-----1.	Boraginaceae-----4.
Leguminosae-----13.	Convolvulaceae-----8.
Amygdalaceae-----2.	Labiatae-----4.
Pomaceae-----3.	Plantaginaceae-----2.
Rosaceae-----12.	Polygonaceae-----5.
Saxifragaceae-----3.	Amaranthaceae-----1.
Hydrangeaceae-----1.	Chemopodiaceae-----1.
Ribesaceae-----2.	Urticaceae-----1.
Onagraceae-----5.	Santalaceae-----1.
Cucurbitaceae-----1.	Loranthaceae-----1.

Fagaceae-----1.
Corylaceae-----1.
Salicaceae-----1.
Orchidaceae-----1.
Fridaceae-----1.
Liliaceae-----11.
Convallariaceae-----3.
Melanthaceae-----1.
Fumariaceae-----1.
Lobeliaceae-----1.
Pinaceae-----2.

190