

State Quarry, 5/16 1920
 Bayfield 5/8 "
 City Park, And. 5/10 "
 Homestead 4/5 "
 Ft. Dodge 6/7-9 "
 Clarion 6/10 "

Oxford, 6/18 "
 Des Moines, 6/22 "
 Lehigh, Pa. 6/23 "
 Ft. Dodge to
 Mason Co. 6/24-5
 Worth Co. } 6/26 "
 Mitchell Co. }

N

OK

No. 367.

Ecology Class, 1919-20

Spring

W. Shinnick
Down City
Down



1920
May 6 - Thursday - Left at 12:15 Pm. for
North Liberty, & walked to State
Quarries. (see notes & lists.)
McCoy had to leave early.
Observed plants of

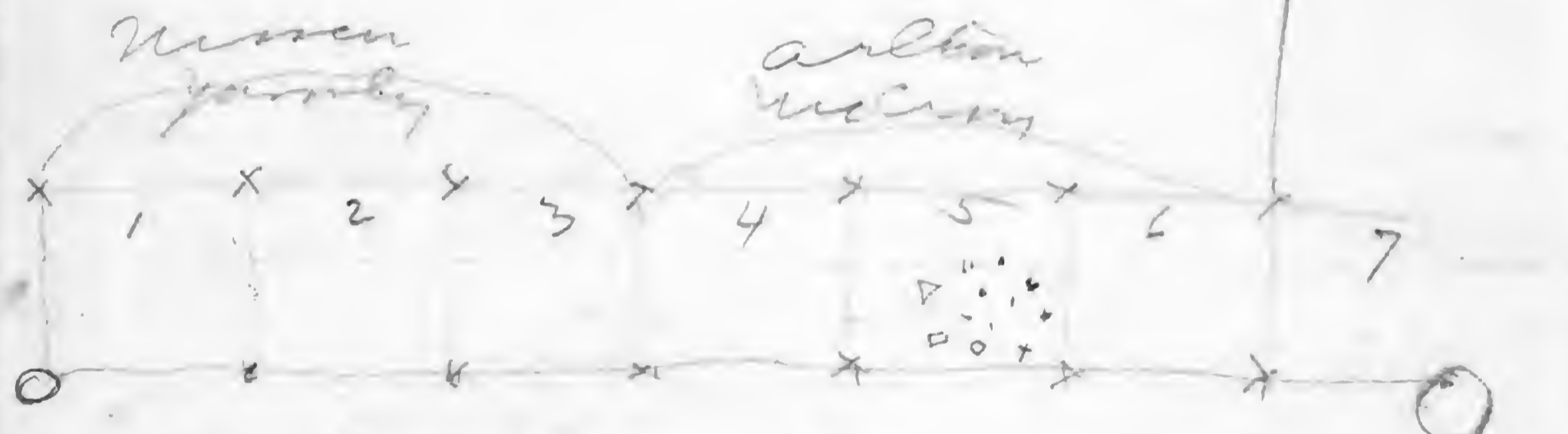
May 8¹⁹²⁰ - Bayfield; Muscatine^{Mo.} Ia.
Got N at Cedar river
bridge and listed plants
on sandy opening E. of bridge,
sandy prairie east of that, and
sandy banks E. of creek & to
Phragmites bog; also skunk
cabbage bog & sand terrace
above it.

Miss Nissen & Mr. Arlton were
along.
See notes for details &
lists.

(Listed)

May 10 - Monday 1920
City Park.

1st series of quadrats -
On replant - slo. cor. =
Further Red Oak
NW cor. = White Oak -
Just E. of opening - NW

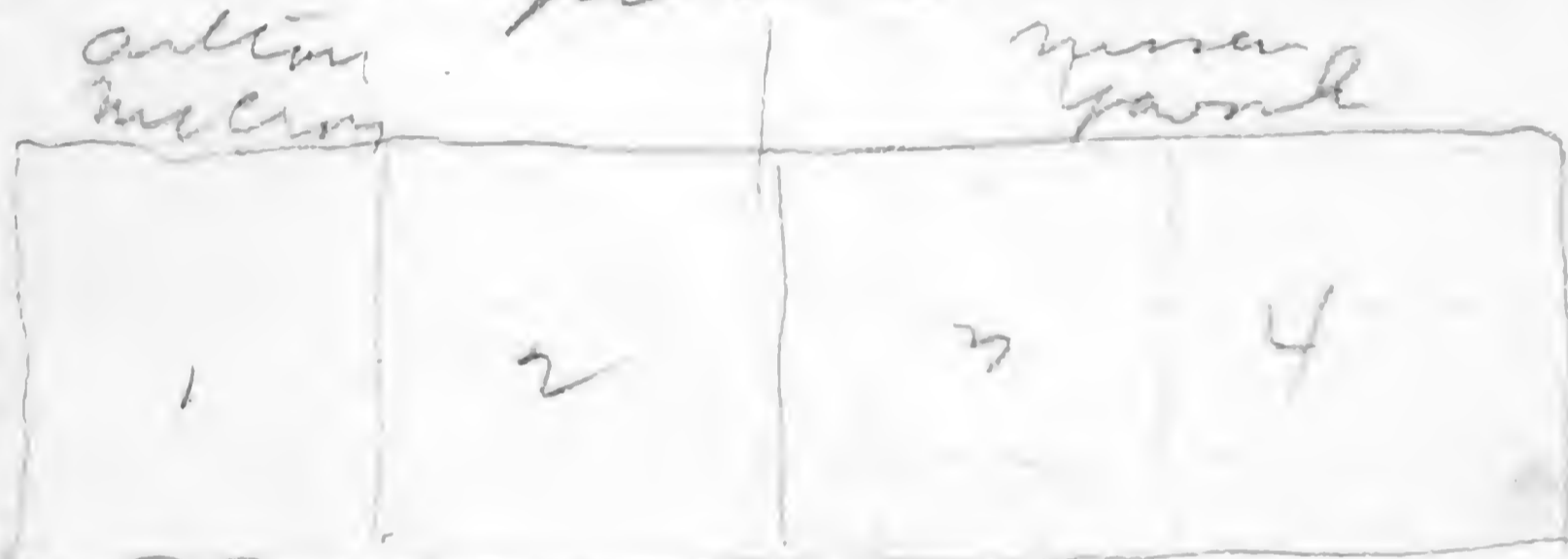


- 1 - Carex pennsylvanica - R
Arenaria thalictroides R
- 2 - Carex pennsylvanica - G
- 3 - Arenaria - 1
- 5 - " -

2nd - About E. of red oak. between
powder house - & bearden -
1 M. square.

3rd quadrat Nissen, Yards
Just W. of part of bearden
1/2 way up slope.
Small Am. elm with
pruned - at SW corner.

4th quadrat series.
At NW corner in Red Oak with
damaged trees.



- Red oak.
- 1st - quadrat - Viola papilionacea
Claytonia virginica
 - 2nd - " - Claytonia
- Viola papilionacea
- Viola papilionacea
 - 3 - " - Polypodium virginicum
Claytonia
Viola papilionacea
Geranium - in bud
 - 4 - " - Viola papilionacea
Polypodium virginicum
Claytonia virginica

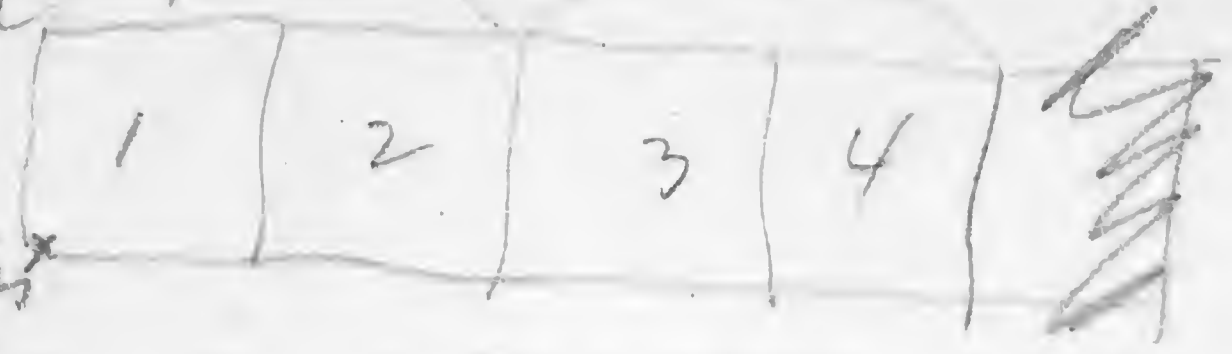
Small tree oak

No 5th - series

wind
↑
sun

Barometer

missen
yarn arllm
 melroy



3 ~~meters~~ - Viola cucullata

~~2m~~ - Poa pratensis

2^m - " - " - "

- 31- *Ambrosia artemisiifolia* - juv
- Santholium limosum* juv
- Euphorbia corollata* - cf
- Rumex acetosella* fl.
- 35 *Taraxacum* - fl
- Solidago nemoralis* - cf & fr
- Comandra umbellata* fl.
- Rudbeckia hirta* - cf
- Lactuca ludoviciana* - cf
- 40- *Rhus typhina* - cf bud
- Tribolium ingridum* fl.
- Oxalis stricta* fl.
- Anemone canadensis* fl.
- Carex cristata* - cf
- 45- *Verbena strictifolia* - cf
- Tridactylon repens* fl.
- Senecio platensis* fl.
- Proserpinaca* - cf
- Agrostis sp.* - cf
- 50- *Galix tristis* - cf
- Chelidonium* fl.
- Carex festuca* fl. fr.
- Gorghastrum vulgare* - fr
- Silphium integrifolium* - cf
- 55- *Silphium perfoliatum* - cf (low)
- Anemone canadensis* - cf
- Achillea millefolium* - cf
- Ambrosia trifida* - juv
- Lithospermum gueloni* fl.
- 60- *Helianthus scaberrimus* fl.
- Coreopsis palmata* - cf
- Viola pedata* fr. (Canada)
- Artemisia canadensis* - cf
- Claytonia arvensis* - cf (juv)
- 65- *Heuchera hirsuta* - cf fl.
- Achillea millefolium* - juv. & old fr
- Agrostis canadensis* fl.
- Eriogonum heterophyllum* fl.
- Solidago canadensis* - cf
- 70- *Veronica virginica* - cf

- Erigeron philadelphicus* - fl.

- alluvial prairie N. of Amasa

- Carex cristata* - fr.
- " " - fr.
- Senecio platensis* - fr.
- Tridactylon repens* - fl.
- 5 *Anemone canadensis* fl.
- Lithospermum gueloni* fl. (low)
- Anemone canadensis* - cf
- Eryngium yuccifolium* - fl.
- Syringa aurea* fl.
- 10 *Asclepias syriaca* - cf
- Panicum scrubum* - fl.
- Oxalis stricta* fl.
- Sisyrinchium carolinense* fl.
- Potentilla canadensis* fl.
- 15 *Ranunculus abortivus* fl. & fr.
- Compositum repens* - cf
- Agrostis alba* fl.
- Viola pedata* - cf
- Rosa virginica* fl.
- 20 *Eryngium yuccifolium* - cf
- Veronica virginica* - cf
- Euphorbia corollata* - cf
- Lepidium sp.* - fr.
- Rudbeckia hirta* fl.
- 25 *Helianthus scaberrimus* - cf
- Asclepias verticillata* - cf
- Hypochaeris glabra* - cf
- Desmodium illinoense* - juv
- Carex festuca* - fr
- 30 *Solidago canadensis* - cf

- 31 - *Oxalis violacea* fr.
Trigonon ramosum - bud
Clematis Richei fl
Hypoxis lucida fl
35 - *Acerates lanata* - bud
Pyromacanthum - fl
Pentstemon laevigata var. *digitata* bud,
Asteris vulpina fl - (low)
Asperula molliflora bud, fl

- 40 - *Carex gracida* fr
Vicia cucullata fr
Allium canadense bud
Ambrosia artemisiifolia fr
Potentilla canadensis fl

- 45 - *Oxalis pilipes* fl
Carex laxiflora - fr
Rhus toxicaria fl
Artemisia ludoviciana fl
Ruellia ciliosa - fl

- 50 - *Scutellaria parviflora* fl
Vitis vulpina fl
Juncus - fl
Fragaria virginiana fl
Rudbeckia hirta - fl

- 55 - *Mallina bracteata* - fl
Galium concinnum fl
Urtica canadensis - fl
Andropogon furcatus fl
Elymus canadensis fl

- 60 - *Silphium laciniatum* fl
Lobelia spicata bud
Antennaria racemosa fl
Scutellaria setacea fl
Helianthus scaberrimus

- 65 - *Lithospermum complanatum* fl
Salix humilis
Asperula molliflora bud
Asperula molliflora fl
Asperula molliflora fl

- 70 - *Lactuca ludoviciana* fl
Sisyrinchium laciniatum fl
Shidys verticillata fl
Corylus americana fl
Veronica fasciculata fl
75 - *Ambrosia pschotricha* leaf
Imperata fl.
Desmodium canadense fl
Asclepias tuberosa fl
Asperula molliflora fl
80 - *Oenothera biennis* fl
Rumex obtusifolius fl
Lepidogon capitata fl
Panicum virgatum fl
Solidago canadensis fl

Alluvial wood.

- Amygdalus fruticosa* fl
Cephalanthus occidentalis fl
Platanus fl
Aletris fl
Celtis occidentalis fl
Ulmus americana fl
Vitis vulpina fl
Populus deltoides fl
Fragaria virginiana fl
Prunus americana
Juglans nigra fl
Q. macrocarpa -
Q. lyrata - fl
Betula nigra - fl
Rhus toxicaria fl
Xanthoxylum americanum fl
Salix nigra fl
" *fragilis* fl
Acer saccharinum fl
" *negundo* fl

St. Dodge, Iowa Falls, Clarion

June 7, 1920

Left Iowa City at 3¹⁰ (late), with
Geo. Koser. Had found that train
for Des Moines was nearly an
hour late, - hence changed.

Reached Cedar Rapids just in
time to get Northwestern train
for Boone. Changed to Interoceanic
& reached St. Dodge at 10⁵⁰ PM.

Put up at Wapahowa Hotel,
room 526, with C. C. Hunt. - This
was Research Com. room.

June 8 - Attended Grand
Body meetings & gave
Research Com. report in
afternoon.

Spent evening at work.

June 9 - Attended session
at election had 73 vote for
A. G. W., & about 65 for J. G. W.
This was unknown to me.

Spent evening in ^{hotel} lobby
with Schommer & others.

Took supper with E. Stas &
they want me to come June
23, 1920
W.M. of F.A. Dodge.

June 10 - Th. 1920
Left Ft. Dodge at 6⁰⁰ am
for Iowa Falls.
Drive commenced at
Ellsworth College.

At 12⁵⁰ pm left for
Claron, and worked for
3 mi. S.E. along RR. on
prairie strips, with occasional
low places.

Flora following:

Silphium laciniatum fl
Petalostemum purpureum fl
Acrostichum virginicum fl
Heterostemma graveolens fl
5 " *scaberrimum* fl.

Helopsis scabra fl
Rhus typhina fl
Bromus ciliaris fl
10- *Cirsium palustre* fl
Oenothera biennis fl
Urtica dioica fl
Trifolium repens fl
Comandra mollis fl
Phlox pilosa fl (blue-red & white)
15- *Pedicularis canadensis* fl
Sisymbrium officinale fl
Physalis peruviana fl
Hyssopus officinalis fl
20- *Desmodium illinoense* fl
Agrostis sp. fl
Delphinium bicolor fl
Artemisia ludoviciana fl
Asperula tomentosa fl
25- *Salix humilis* fl
Lepidium apetalum fl
Poa pratensis fl
Poa compressa fl
Stipa spartea fl
30- *Asperula cynosuroides* fl
Koeleria cristata fl
Tridactylon brycei fl
Orchis filipes fl
Sisyrinchium albidum fl
35- *Vicia pedunculata* fl

In Oxford, Ia June 18, 1920

Left at 4:30 P.M. Day cool,
quite clear.

along RR or prairie -

Asclepias millefolium fl. very fine

Castilleja straminea fl. yellow

Hordeum jubatum fl.

Bromus tectorum - fr.

Rumex crispus fl.

Poa pratensis - fr. brown fr.

Elymus repens - fr.

Oxybaphus myrsinifolius - fr. fr.

Tradescantia virginiana fl.

Thalictrum dasycarpum fl. yellow

Arnica montana fl.

Asplenium platyneuron - fr. fr.

Trifolium repens - fr.

Rubus odoratus fl. - few.

Silphium laciniatum fr.

Phlox pilosa (var.) fl. purple

Rosa pratincola fl.

Prunella vulgaris fl.

Asplenium platyneuron - fr. fr.

S. + S. of Oxford - on a low hill

Prunella

Crataegus

Amygdalus

Vitis vulpina

Prunella (at edge)

Rubus floricola - fr.

Urtica dioica

Urtica dioica

Ptilis crinita - green fr.

Carex chrysosperma fr.

Carex chrysosperma fr.

Asplenium platyneuron

From Oxford to Oxford

Expenses Des Moines, Mason City, etc

1920

June 22 - Taxi, Iowa City -	\$.50
RR to Des Moines	3.92
Breakfast, "	.20
Barber & haircut -	.35
Supper Des M.	.30
Parcels - " "	.30
RR. to Ft. Dodge -	2.79 (2.58)
Chair	.27
June 23 - RR to Gypsum	.16
Breakfast & lunch	.55
RR. to Evanson, Ia.	.21
RR to Lehigh	.17
RR. Border Chain & Ft. Dodge	.37
Wahkoma Hotel	2.00
Supper - rest.	.35
June 24 - Wahkoma Hotel	2.50
Breakfast	.35
RR. to Mason City (no tax)	2.17
Bus to Iowa	.25
Supper	.10
Dinner & supper	.85
June 25 - Breakfast & lunch	1.68
Supper	.40
June 26 - Breakfast	.35
Dinner	.40
Barber	.35
Carfare	.10
RR. to Lyle	.93
RR. - Mc Intyre to Waterloo	3.05
Breakfast, Waterloo	.35
RR to Cedar Rapids	1.95
" " to Ia City	.80

3.05
1.88
1.95
5.88
1.35
6.23
4.60



June 22, 1920 - Tues.
Des Moines, Ft. Dodge, Mason City,
Stacyville.

Left Iowa City at 4:35 am;
reached Des Moines at 8:20.
Transferred baggage & went to
Pub. Library to see conservation
people.

Were invited to sit on stage
before noon.

At 1 PM. went to Ft. Des Moines
Hotel & had luncheon with
conservation people.

At 2:30 went to Auditorium
& at 4:00 spoke on Conservation
in its moral & spiritual aspects.

For speakers see published
program.

Among them, Executive
Director of Natl. Reclam. Admin.

331 Maryland Bldg., Washington
D.C.

son + daughter
Put up at the Wabbona.

June 23, 1920 - Wednesday.

Left at 6:30 am. for Gypsum.

This is just a crossing, and
nothing here but weeds. Noted:

- | | |
|--|------------------------------------|
| <i>Urtica dioica</i> (few fr.) | + <i>Caryophyllus</i> (rather low) |
| <i>Trifolium pratense</i> fl. | <i>Zizania</i> (offspring) |
| + <i>Helianthus</i> (ground) | <i>Chenopodium</i> (offspring) |
| + <i>Hordeum jubatum</i> fl. | + <i>Rumex</i> (offspring) |
| + <i>Syntherisma</i> (offspring) | <i>Zizania</i> (offspring) |
| + <i>Ambrosia</i> (offspring) | <i>Zizania</i> (offspring) |
| + <i>Plantago</i> (offspring) | + <i>Trifolium</i> (offspring) |
| + <i>Aster</i> (offspring) | |
| <i>Rumex crispus</i> fl. + fr. | |
| <i>Lactuca</i> (offspring) | |
| + <i>Solidago</i> (offspring) | |
| <i>Myrica</i> (offspring) | |
| <i>Partinocarpus</i> (offspring) | |
| <i>Equisetum</i> (offspring) | |
| + <i>Ambrosia</i> (offspring) | |
| + <i>Equisetum</i> (offspring) | |
| + <i>Ambrosia</i> (offspring) | |
| + <i>Aster</i> (offspring) | |
| <i>Phleum</i> (offspring) | |
| + <i>Rumex</i> (offspring) | |
| + <i>Cirsium</i> (offspring) | |
| + <i>Cornus</i> (offspring) | |
| + <i>Polygonum</i> (dark spot) (offspring) | |
| + <i>Erigeron</i> (offspring) | |
| + <i>Agropyron</i> (offspring) | |
| + <i>Polygonum</i> (offspring) | |
| (usually hairy on petiole, rigid stem) | |
| + <i>Aster</i> (offspring) | |

A dense, coarse
lot of weeds,
those marked +
are native, but
here, weeds.

Rumex britanicus
has tubercles nearly
equal in all 3 angles.

Left at 5:30 PM for Ft. Dodge.
On getting off at Ft Dodge,
Mrs. Tom Kealy, who had been
at the Biennial, introduced
herself. She urged me to call
on them + took me to the hotel
in her car. Met her mother,

Left for Evanston Jc. at 7:35 AM.
 At the Jc. from line leading
 to Webster City bordered only
 with weeds (near line) while the
 Lehigh branch has a good many
 Prairie species. Notes following:

<i>Lepidium virginicum</i> fl. v. fr.	(thin green) 100 fr
<i>Regulus canadensis</i> fr. folios	<i>Scutellaria parviflora</i> fr.
<i>Silphium laciniatum</i> fl. v. fr.	<i>Ora punctatum</i> , etc. fr.
<i>Helianthus scaberrimus</i> fl.	<i>Tripsacum daniellii</i> fl.
<i>Lepachys pinnata</i> fr.	<i>Asperula</i> fl.
<i>Asclepias tuberosa</i> fl.	<i>Erigeron hyemalis</i> - etc.
<i>Petalostemum purpureum</i> fl.	<i>Chenopodium album</i> fr.
<i>Erigeron ramosus</i> fl.	<i>Vicia americana</i> fr.
<i>Desmodium illinoense</i> fl.	<i>Desmodium canadense</i> fl.
<i>Melilotus alba</i> fl. low	<i>Sium cicutifolium</i> (large) fl.
<i>Stachys palustris</i> fl. low	<i>Aster Michx.</i> fl. low
<i>Rudbeckia hirta</i> fl.	<i>Aster multiflorus</i> fl.
<i>Anemone pulsatilla</i> fl.	<i>Asclepias tuberosa</i> fl. sandy
<i>Sisyrinchium campense</i> fr.	<i>Trachycarpus hirtellus</i> fl.
<i>Lythrum alatum</i> fl. - low	<i>Apocynum (broad)</i> fl.
<i>Phlox pilosa</i> (ab.) fl.	<i>Rumex crispus</i> fr.
<i>Panicum</i> fr.	<i>Panicum arvense</i> fl.
<i>7 misc. grasses (all spec)</i>	<i>Physalis (ornate)</i> fl.
<i>Viola cucullata</i> fr.	<i>Croton scaberrimus</i> fl.
<i>Senecio blattari</i> fr.	<i>Panicum virgatum</i> (ab.) fl.
<i>Oxalis stricta</i> fr.	<i>Oenothera biennis</i> fl.
<i>Cirsium discolor</i> (abund) fl.	
<i>Melilotus alba</i> fl. low	
<i>Carex vulpinoidea</i> fr. low	
<i>Carex</i> fr. "	
<i>Ambrosia artemisiifolia</i> fr.	
<i>Xanthoxylum</i> (large) fl.	
<i>Lilium canadense</i> fl. low	
<i>Hedera helix</i> fl.	
<i>Helianthus scaberrimus</i> fl.	
<i>Helianthus annuus</i> fl.	

All the territory at Gypsum
 & Evanston Jc. is flat
 Wisconsin, with some wet places.
Asclepias syriaca locally bad
 in oat-fields.
 Lehigh is in a narrow wooded
 valley. - bluffs on either side
 tree-covered (or clear).

Went up the river on W. side,
 along C. & G. W. saw:

- + *Vitis vulpina* - low
- + *Ulmus americana* - low
- + *Cottonwood* - low slope
- + *Salix nigra* - low. very com.
- + " *amygdala* " not com.
- + *Acer negundo* " & slopes

On slopes

- + *Crataegus mollis* - slopes -
- + *Prunus americana* - fl.
- + *Q. rubra* -
- + *Zizia aurea* - fl.
- + *Grass* v. *laciniata*
- + *Populus deltoides*
- + *Carya ovata*
- + *Alnus glutinosa* (edge)
- + *Aster* v. *virginicus*
- + *Acer negundo*
- + *Q. alba*
- + *Populus tremuloides* -
- + *Sambucus canadensis* bud - lower slope
- + *Rubus fulviflorus*
- + *Acer saccharinum* v. *nigrum*
- + *Xanthoxylum* ann.
- + *Salix nigra* (low)
- + *Populus* -

- + Hyperophylla ^{very com} albertensis fr & fl
- + " virginica fr.
- + Geom alba fl.
- + Cryptotaenia canadensis fl & fr
- + Asarum canadense fl
- + Arisaema 3-phyllum fl
- + Juglans cinerea
- + Thalictrum flavum fr
- + Galium aparine fr
- + Carex latifolia fr
- + Orizopsis fr
- + Galium latifolium fl
- + Rubus grandis fr
- + Erigeron annuus fl
- + Osmorhiza brevistylis fr
- + Cystopteris fragilis fr
- + Carex vulpina fr
- + Ranunculus abortivus fr
- + Prunella virginica fl
- + Menisperm canadensis fl
- + Phlox divaricata fr
- + Sarcocolla angustata fl
- + Anemone virginiana fl & fr
- + Ranunculus abortivus
- + Linum catharticum fr
- + Smilacina racemosa fl
- + Impatiens pallida fl
- + Galium triflorum fl
- + Crataegus
- + ~~Opuntia pennsylvanica~~ fr
- + ~~Pilea pumila~~ fr
- + Ficus virginica fl
- + Corylus americana
- + Viola pubescens fr

- + Polygonum virginicum fl
 - + Carya amara
 - + Botrychium virginicum fr
 - + Cornus alternifolia fl
 - + Adiantum pedatum fr
 - + Celin canadensis
 - + Polygonatum commutatum fl
 - + Ribes cynosbati green fr
 - + Hydrangea patula fl & fr
 - + Rubus ^{allegheniensis} fr
 - + Salix humilis fl - open place
 - + Rubus occidentalis fr
 - + Potamogeton grandiflorus fl
 - + Carex (long) - edge of open bank, edge of woods
 - + Juglans nigra fr
 - + Prunella americana fr
 - + Pyrus americana fr
 - + Anemone canadensis fr - bank
 - + Sparganium angustifolium - open
 - + Cestrum canadense fl
 - + Osmorhiza - top of open place
 - + Verbena stricta fl - open
 - + Astryale canadensis fl - open
 - + Juncus ^{fr} } low
 - + Carex (big) } low
 - + Willow } low
 - + Cornus paniculata fl - woods bank
-
- In game preserve (Pawson Hollow)
- + Metella diplylla fr
 - + Cystopteris bulbifera fr
 - + Carex canadensis fr very com.
 - + Sium palustre fl not rare on bank
 - + Asplenium canadense fl
 - + Oxalis corniculata fl
 - + Erigeron philadelphicus fl

edge of field near banks
 edge of game preserve
 edge of woods

Along slopes near clearing
 (rather gentle) N. towards
 C. & W. bridge there are
 a good many boulders - mostly
 light.

First - *Prunus pennsylvanica* (com)
Amelanchier canadensis lf
Arabis - some *pedicellata* - fr
Agrimonia - lf
Juniperus - lf
Fragaria - lf
Struthiopteris - lf

(all marked plus +) in first list.
Morone - lf
Gonolobus - lf
Veronica - lf
Thalictrum trifolium - lf
Cirsium - lf
Equisetum - lf
Chamaenerion - lf
Prunella - lf
Ollina - lf
Lythrum - lf
Thalictrum?
Asplenium - lf
Compositae - lf
Parietaria pennsylvanica - lf
Asperula - lf
Phlox - lf

Walked up the ^{wagon} road to
 Border Plain. Left C. & W.
 at first road N. of river RR.
 bridge. Rush with streamlets.
 The trees become fewer & lower
 at edge of plain. Found a
Rosa - lf. along road &
Q. velutina, just fr +
Prunus pennsylvanica fr.

On prairie (a piece looks like native)
 N. of Border Plain I saw
 a *Baptisia leucophylla* in full
 bloom.

This is on a bit of prairie W.
 of RR & just S. of road
 10 mi. N. of Border Plain
 I could see:

Baptisia leucophylla fl
Erigeron annuus fl
Silphium laciniatum fl very common
 along RR.
Asclepias tuberosa fl
Antennaria - lf

In kettlecks between
 Courtm & 74, Dodge saw
Ranunculus multiflorus fl
Scirpus velutinus
 " *atrovirens*
Lythrum latifolium
Pragmites communis
Big Sida (same as W of Kefw)

The woods above Lehigh &
 at Bouyard Hollow have
 few molds & at this season very
 few fungi & no slime moulds.

The soil in this drift region is
 sandy and this probably accounts
 for it. I found no small
 shells, such as *Purpura*, etc.

Attended Aurora Chapter OES
 in the evening & talked on
 obligation. Used both Pinnacle
 & Church banquet stories.

Found change in time of C. E. W.
 made it necessary to stay all night.

June 24, 1920 Thurs.

Left at 7:40 AM for Mann City
 via C. & W. motor car.

The run is through Wisconsin
 plain, & patches of prairie are
 still visible, but in places *Melilotus*
alba & *Poa pratensis* have
 taken possession.

- Vinona to Kewell
- + ~~*Melilotus alba* fl & lf~~
 - + ~~*Stipa spartea* fl~~
 - + ~~*Melilotus scabra* fl~~
 - + ~~*Bromus pallidus* fl (short crop)~~
 - + ~~*Lythrum longicaule* lf~~
 - + ~~*Erigeron annuus* fl~~
 - + ~~*Chloa polon* - scattered, mostly white~~
(cutting hay in places)
 - + ~~*Hesperis matronalis*~~
 - + ~~*Artemisia ludoviciana* lf~~
 - + ~~*Thalictrum dasycarpum* fl~~
 - + ~~*Rudbeckia hirta* fl~~
 - + ~~*Solidago spicata* fl~~
 - + ~~*Petalostemum puberulum* bud~~
 - + ~~*Lythrum pratense* fl in tufts~~
 - + ~~*Prunella angustifolia* lf~~

Wright Co. Kewell to Eagle Grove = + & following:

- Triplaris hybridum* fl
- Melilotus communis* lf
- Poa pratensis* fl
- Anemone canadensis* fl - W.
- Equilium arvense* lf - green
- Bromus tectorum* fl

Eagle Grove to Florence, (numbers)

- ADC + B *Stipa spartea* fr¹³ on drier knolls
- ADC B *Helianthus scabra* fl¹²
- AO + B *Rudbeckia hirta* fl.
- ADC + B *Brassica juncea* fl¹⁸
- ADC + B *Sisyrinchium laciniatum* fl
- ADC + B *Erigeron ramosus* fl
- ADC + B *Helianthus scabra* fl (very tall)
- ADC + B *Helianthus scabra* fl¹⁵
- AO + B *Helianthus scabra* fl
- ADC + B *Rudbeckia hirta* fl
- ADC + B *Helianthus scabra* fl²⁰
- OC + B *Petalostemum purpureum* bud⁴¹
- + *Helianthus scabra* fl¹⁷
- OC + B *Petalostemum purpureum* fl²⁰
- AO *Bastard multi-flora*
- AO + B *Petalostemum purpureum* fl²¹
- A CB *Helianthus hybridus* fl³
- A CB *Helianthus hybridus* fl¹⁴
- AO + B *Rosa pratincola* fl¹⁸
- A OC B *Rosa pratincola* fl¹⁸
- C *Caninus canadensis*
- AO + B *Helianthus scabra* fl
- AO *Rosa pratincola* fl
- AO + *Helianthus scabra* fl¹⁹
- AO + B *Helianthus scabra* fl^{16, 6}
- AO + B *Helianthus scabra* fl¹⁹
- AO + B *Helianthus scabra* fl²³
- Florence to Clarion + v following
- OC B *Zizia aurea* fr.
- A *Eryngium yuccifolium* bud
- A O B *Solidago canadensis* fl
- Asclepias sullivanti* fl
- A OC *Zizia aurea* fl
- A CB *Asclepias syriaca* fl

Clarion to Cornelia = O + following:
Asclepias syriaca fl (Clarion)
Asclepias syriaca fl
Asclepias syriaca fl

- Solidago rigida* fl
- CA B *Asclepias syriaca* - green (brown) fl
- C *Asclepias syriaca* bud
- A *Asclepias syriaca* fl
- CA *Asclepias syriaca* fl

Quite a lake at Cornelia -
 plant beds beginning to show.

Cornelia to Belmond = A + following:

- C B *Asclepias syriaca* bud
- Solidago canadensis* fl. several patches
- B *Phlox maculata* - swamp fl
- Koeleria cristata* fl low
- Liatris scariosa* - fl low
- Vitis vulpina* fl
- B. *Pastinaca sativa* fl + fr. Belmond.

Belmond to Palenville B. + following:

- Onosmodium occidentale* fl
- Sisymbrium album* fl
- " *canonum* fl
- Asclepias syriaca* fl
- Rumex crispus* - fl
- Leguminosae pinnata* bud

Palenville to Meservey C + following:

- Equisetum arvense* fl
- Baptisia bracteata* - fl

Meservey to Thornton - N + following:

- Helianthus scabra* fl

Thornton to Swaledale following marked

- 3 - - - Asperula
- 2 - 1 - Asclepias syriaca lb
- 1 - - - " Shillivanti
- 1 - - - " tuberosa lb
- 3 - 2 - 1 - Apocynum - fr
- 3 - 2 - 1 - Achillea millefolium fl
- 3 - 2 - 1 - Artemisia ludoviciana fl
- - - - Agropyron tenerum fl
- - - - Aster multiflorus fl
- 2 - 1 - Anemone canadensis fl
- 2 - 1 - Bromus arvensis fl
- 3 - 2 - 1 - Brainerdii fl
- - - - Baptisia Cractata fl
- - - - Bromus yuccifolius fl
- 2 - 1 - Bromus ramosus fl
- - - - Carex palmata lb
- 2 - 1 - Helopsis scabra fl
- 3 - 2 - 1 - Helianthus scaberrimus fl
- 2 - 1 - " scaberrimus fl
- 2 - 1 - Hordeum jubatum fl
- 2 - 1 - Lactuca scariola fl
- - - - Lythrum fl
- - - - Liatris fl
- - - - Melilotus alba fl
- 2 - 1 - Petalostemum purpureum lb
- - - - Pastinaca nativa fl
- 2 - 1 - Prunella angustifolia fl
- - - - Prunella fl
- - - - Phlox pilularis fl
- 2 - 1 - " fl
- 2 - 1 - Rudbeckia hirta fl
- - - - Rumex crispus fl
- 2 - - - " Brittanica fl
- 3 - 2 - 1 - Rosa pratincola fl
- 2 - 1 - Salix humilis fl
- 2 - 1 - Stipa spartea fl
- 3 - 2 - 1 - Silphium laciniatum lb
- 3 - 2 - 1 - Solidago canadensis lb
- - - - " serotina lb
- 3 - 2 - 1 - Galium demissa fl
- 3 - 2 - 1 - Trifolium hybridum fl
- 3 - 2 - 1 - " pratense fl
- 3 - 2 - 1 - Zizia aurea fl
- 3 - 2 - 1 - Zygadenus - fl
- - - - Parnassia fl
- 3 - 2 - 1 - Red Top fl
- - - - Agropyron tenerum fl
- - - - Urtica vulpina fl
- 3 - 2 - 1 - Galium boreale fl

mostly white

Swaledale to Burchinal, 2, & following:

- Lepachys pinnata lb
 - 3 - Anemone fl
 - Artemisia dracunculifolia fl
 - Scrophularia leporella - fr & fl
 - Cacalia tuberosa fl
 - 3 - Liatris fl - fr
 - 3 - Liliium fl
- Burchinal to Clear Lake fl. 3-4:
- Potentilla canadensis fl
 - Caryophyllus fl

Worth 10 June 26, 1920

along C. W. St. P.

Phlox maculata - wet

Eryngium yuccifolium fl.

Rudbeckia hirta fl.

Asclepias sullivanti buds (small)

Stipa spartea fr.

around Grafton:

Asclepias syriaca fl.

Achillea millefolium

Zygadenus - fl.

Hesperis matronalis fr.

Silphium laciniatum fl. buds

Artemisia ludoviciana fl.

Lilium philadelph. fl. (rare)

Galium boreale fl.

Trifolium hybridum fl.

Zizia aurea fr.

Rosa pratincola fl.

Koeleria cristata fl.

Scirpus hirsutus fl.

Reduncula canadensis - old fr.

Eryngium yuccifolium fl.

Phlox pilosa fl. (few)

Cirsium Hillii buds.

Hemlock barberry fr.

Across Mitchell co, C. M. + S. P.

- Achillea millefolium fl.
- Artemisia ludoviciana fl.
- Aster multiflorus var. - fl.
- Galium boreale fl.
- Erigeron ramosus fl.
- Aquilegia canadensis fl.
- Rudbeckia hirta
- Silphium laciniatum fl. - bud
- Lilium phil. fl. - bud
- Stipa spartea fr.
- Zizia aurea fr. (old fr.)
- Pedicularis canadensis (old fr.)
- Petalostemum purpureum - bud.
- Hemlock hispida fl.
- Thalictrum dasycarpum fl.
- Prunella - short fl.
- Scrophularia leporella fl.
- Helianthus scabra fl. fl.
- Rosa pratincola fl.
- Hordeum jubatum fr.
- Rudbeckia hirta fl.
- Salix humilis
- Q. macrocarpa defuncta
- Prunella americana fl.
- Asperula - pink fl. (at the woods)
- Asperula leucophaea fl.
- Asclepias syriaca fl.
- Castilleja canadensis fl.
- Amorpha canescens var.
- Poa pratensis ob. fr.
- Rumex crispus fr.
- Lespedeza capitata fl. ob. fr.

complex number of

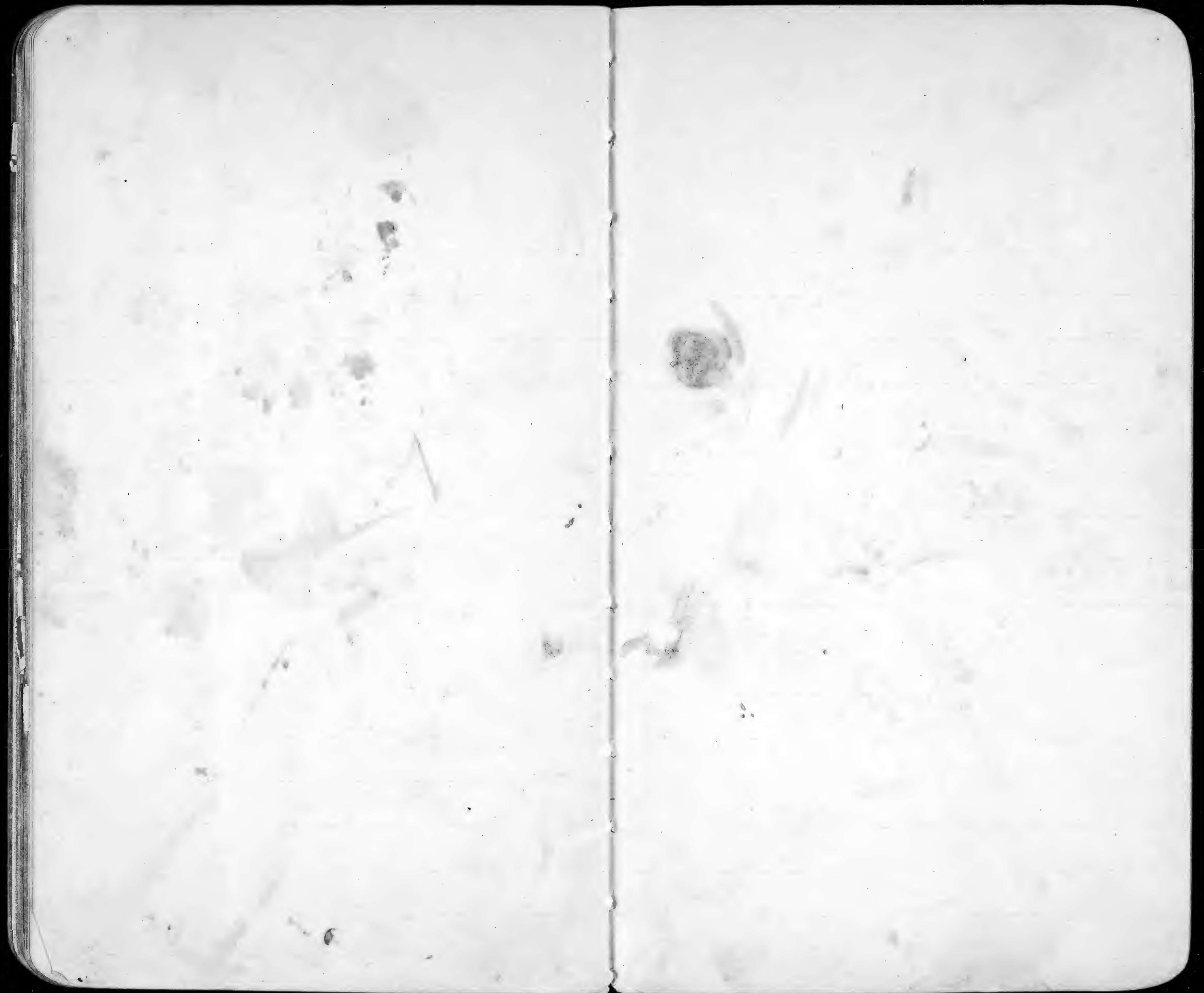
Expenses - Trip to Mason City

July 3 - RR to Cedar Rapids 8.80 no tax
 July 4 - RR Cedar R. to Mason City 4.26 " "
 Supper 2.00 " "
 Breakfast, Mason City .37
 Lunch " " .25
 Supper " " .17
 Two car fares, to Slough .10
 Paper¹⁰, soda¹⁰, fruit^{1.00} 1.20
 Fare to & from Clear Lake .50
 July 5 - Breakfast²⁴ paper⁵ .39
 Dinner⁷⁵ supper²⁵ 1.00
 car fares .10
 July 6 - Breakfast³¹ dinner¹⁸ .49
 car fare to depot .05
 RR. to Iowa Jc. .29 = (.26)
 RR. Iowa Jc. to Cedar Rapids 3.39 - no tax
 RR. Cedar R. to Iowa Jc. .97 no tax
 Car fare .05

Cedar Rapids to Iowa City, 80

✓

Salix humilior fl
Carex pedunculata fl
Mnemonia
Helopsis
Peltandra canadensis fl
Morus fl a few fl.
Asclepias tuberosa fl
Cirsium discolor fl
Sida thurberiana fl
Achillea fl
Asplenium platyneuron fl
Erigeron annuus fl
Cirsium discolor fl
Composita rugosa fl
Ceanothus am. fl
Amelanchier canadensis fl
Hemerocallis fl
Sida thurberiana fl
Phlox pilularis fl
Rumex crispus fl
Desmodium illinoense fl & low
Asplenium platyneuron fl
Salix humilior fl



Meachamville 5/26 1920

Personal - Anne
grandfather
meetings

Pupils - gather

Patrons - less -
should get together often

As Taxpayers

Large taxes

But magnitude of interest,
you trust your children to them

I wonder if complaints

Taxes high
good enough for fathers

Log house

By team -

Costs too much?

Quality -

Plainstown - consolidate school
Taxes high
children - hardship!

Economy - wise

But - teacher \$2.50 cheaper

But another relation - as patrons
all - not only those who have children

Do you visit?

Do you cooperate?

Do you expect all from teacher?

Do you ride with children

no doubt angels -

I was one -

front seat -

looked at me

kept in school -

Children exaggerate -
Rabbits -

Do you do your share at home?

Teach to use money?

Careful

Language

Truthful -

Regular attendance -

School does not work children

at Colo - 5/27 1920

School patrons

Taxes

not satisfied with old

Log house

Open

Do you contribute to temple?

30-40

you 1 - angel child
I was one

Do you know

Sanitary conditions

Equipment, etc of school

Do you visit? cooperate?

But not you visiting

Elders - back seat

McNider - Hanford

Lake Park - Basketball

Inventory

What did you put in?

What did you get?

Knowledge

Training

Habits

Character

What will you do with it?

Personal advantage

Citizen

Service

"What would mother say?"

Oxford Jc.

Introduction
 Pleasure - here before -
 Evening belongs to young people
 You elders take a back seat!
 We all come to it.
 Mr. McInden
 His son Hamford - asked for speech
 at Lake Park
 Boys warm reception
 Boy became my boy - basket ball
 What did they receive?
 Why did you go?
 Knowledge - of use -
 Training -
 Good habits -
 Character -
 What will you do with it?
 Personal advantage
 war.

To Ft. Dodge, etc.

June 7, 1920 - Carfare	.05	
RR to Cedar Rapids	.86	
RR to Boon	3.92	
Supper en route	.65	
RR to Ft. Dodge	1.38	.93
June 8, 1920 - Dinner	.85	3.92
Supper	.85	1.38
June 9, 1920 - Breakfast	.50	6.23
Dinner	.85	2
Supper	.85	12.46
		86
		3.92
		1.38
		6.16
		2
		12.32
RR	\$ 12.82	
7 meals	5.20	
Room	5.25	
	<u>\$ 23.27</u>	
June 10		
RR Ft. Dodge to Iowa Falls	\$ 1.53	
Exp. - Ft. Dodge	.25	
Breakfast (Candle)	.15	
Room " Iowa Falls	1.50	
Dinner " "	1.00	
Supper " "	.65	
RR Iowa Falls to Clarion	.96	(.89)
Supper Clarion	1.35	
RR Clarion to Iowa City	5.81	
Breakfast W. Liberty	.35	

Paul Wiegand
Co. Auditor
Marion City
Iowa

Expense accounts

To Blairstown, May 12 - N.S. Com

Taxi, Iowa City	\$ 35
RR. to Belle Plaine	1.13
Lunch, " "	.40
Livery to Blairstown	4.00
RR. to Cedar Rapids	.78
Magazines, apple, paper	.55
RR. Iowa City to Cedar Rapids return	1.72

Received \$ 31.00 \$ 8.93

\$ 22.07 net.
.50 - telephone to Blairstown
\$ 21.57 30+10+10

To Colesburg - May 13-14 - N.S. Com

Taxi - Iowa City	\$.35
RR. to Cedar Rapids	.86
RR. to Marion (Winterville)	.18
Hotel (Biggs House) Marion	1.00
RR. Marion to Greeley	1.95
Breakfast, Marion	.40

9.48

25.

\$ 4.48

4.74

9.48

8.98

25.

Received \$ 34.50 - Colesburg \$ 33.48
" 31.00 - Blairstown

5/15 RR. Osterdock to New Albin	2.20 ^{tax .18}
Dinner, No. McGee RR restaurant	.40
New Albin - Plants - spec. deliv.	.21
Wool 98 paper 05	.13
RR. to No. McGee	1.15 ^{+.09}

5/15 Supper - Hotel Perry " "	.60
5/15 Breakfast " " + lunch	.55
5/16 Supper	.60

5/17 Breakfast + lunch supper	1.15
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Room - Hotel	3.00
RR. to Dubuque	1.77 (.13 tax)

Taxi-transfer	.50
5/18 apples, paper	.20

5/18 RR. to Waterloo	\$ 3.02
Lunch, Waterloo	.65 ^{tax .50}
RR. to Cedar Rapids	1.71
RR. to Iowa City	.86
Taxi	.50

Wilton, Albia, Lake Park, etc

5/19 Taxi - Iowa City	.50
RR. to Wilton	.95
(Received at Wilton \$ 26.50)	\$ 26.50
	1.45
	\$ 25.05 net

5/20 RR. to Fairfield	2.49
Breakfast, Wilton	.25
Transfer - Fairfield	.25
RR. to Albia	1.58
Received \$ 35.75	\$ 5.07

5/21 - Bus to depot - Albia .25
 Room & supper at Hotel Monroe 1.65
 RR. to Des Moines 2.19
 Breakfast " " RR ret. .55
 RR. to Spirit Lake (broadway) 5.76
 Dinner - Rockwell Co .45
 Supper at Spirit Lake .35
 RR to Lake Park .34
 Return 8.47
 Taxi .35
 2 meals - 1.00
 Change Des Moines
 \$9.00
 \$18.92
 25.00
 \$43.92 Lake Park

5/22 - RR. to Emmetsburg 1.62
 Lunch " .50
 RR to Mason Co (not tax) 2.29
 RR to Des Moines 3.95 with tax
 Change Des Moines
 3.93
 3.95
 .50
 8.38
 2.50
 8.63

	Received	Expended
Wilton	\$ 26.50	1.45
Albia	35.75	5.07 + 5.00
Lake Park	43.92	11.54
Emmetsburg		2.12
Mason Co	2.29	2.29
Des Moines	9.00	8.37
	117.46	30.84

5/25 - RR. to Cedar Rapids - .86
 Taxi Iowa City .35
 RR to Marion return .36
 RR. to Delwitt 2.02
 Long distance call .60
 (RR. Iowa City - Marshall 4.22)
 Taxi - Delwitt to Magnolia 7.00
 " - Magnolia to Andrew 3.50
 Lunch - Delwitt - .25
 5/26 - Decker Hotel - Magnolia Room, ¹² ⁷⁵ 1.75
 Taxi to depot " .25
 RR. to Delwitt - .64
 Lunch ¹⁵ Taxi ⁵ .15
 RR to Mechanicsville - 1.23
 Received \$35.00
 Expenses - 18.96
 net - \$16.04
 RR. to Cedar Rapids .80

202
 1.23
 .79
 1.58
 1.72
 .70
 .45
 4.45
 1.23
 .79
 .36
 .70
 1.75
 .45
 5.78

5/27 - RR. Cedar Rapids to Colo - \$ 2.97
 2.25 sp. serv. - parcel plants .23
 5/28 - RR. Colo to Cedar Rapids 2.97
 6.17
 Change Colo:
 Taxi (2) - .70
 RR. to Cedar R (2) 1.72
 RR. to Colo (2) 5.92
 Received
 \$ 53.34
 88.34
 25.00
 \$ 33.34

5/28 RR. to Marion .18
 Dinner " (Rubels) .50
 RR. to Oxford Jr. 1.13
 Call to Iowa City .50
 RR. Clarke to C.R. 1.12
 RR. & R. to Iowa City .86
 Charge Oxford Jr. 4.29

Taxi (2) .70
 RR - Cedar Rapids (2) 1.72
 Meals (2) 1.00
 RR. to Oxford Jr. 2.26

\$ 5.68
 25.00
 \$ 30.68

	Paid	Received
Stainston	\$ 9.50	\$ 31.00
Colesburg	7.81	34.50
Wilton	1.45	26.50
Albia	5.07	35.75
State Park	11.54	43.92
Des Moines	10.00	9.00
Andrew	18.96	35.00
Mechanville	.80	29.45
Colo	6.17	33.34
Oxford Jr	4.29	30.68
	\$ 75.59	\$ 309.14
		75.59
		233.55
		225.
		\$ 8.55

225

To Harcourt - June 4, 1920

Carfare - Iowa City .10
 RR. to Des Moines 3.92
 RR. to Harcourt. 2.19
 Supper .50
 Cedar Rapids 4.87 6.71
~~Supper~~ 1.65 6.96
 To Iowa City .86
 Breakfast .45
 \$ 14.54
 1.65
 \$ 12.88
 70 Taxi
 \$ 13.58

RR - Harcourt to Jewell Jr. .97
 RR - Jewell Jr. to Cedar Rapids 3.90
 RR. Cedar Rapids to Iowa City .86
 Breakfast 20⁺²⁵
 Taxi 35
 6.53
 6.96
 \$ 13.49

Fairfield -

Taxi - Iowa City
RR. Wilton to Fairfield
Breakfast Wilton
RR - Fairfield to Albia 49 mi.
Breakfast Albia

.35
2.49
.25
1.58
.25
.45

58 mi. at \$121 = 189

3
527
4
610
3.79

1.25

= 12.51

117

351

2808

51
22
3.79

67

201

234

2.35

.03

7.05

.56

.40

7.05

7.61

.86

8.47

RR. Mason Co Cedar R. #460

RR. McIntyre to Cedar R.

Capt. Huffman

In Clinton co - out from

Holt. E - about 3

150

3

4.58

3600

4.59

Loc 7.12 pm
Hounded

James Huffman

15219

108 / 2.770 (164)

208

690

628

8420

222

