

Hickman 1917  
Forrest City, 1917  
~~Keokuk~~ 1917  
Mason City, 1917  
Clear Lake  
Decorah 1917

Waukon 1917  
Des Moines to Waukon 1919  
Belle Plaine • 1919.  
Clutier  
Unionville 1919  
McGregor 1920  
Muscatine "  
Decorah "

Clarion 1919  
Protivin 1919  
Mason City 1919  
Winterset 1919  
St. Charles 1919

Account - St. Louis & south

Aug. 31 - RR. to St. Louis	\$ 7.22
(of this \$ 2.38 to Keokuk)	
Sleeper (+ porter	2.26
(1.50 to Keokuk)	\$ 9.47
Sep. 1 - At St. Louis -	
Sodas <sup>10</sup> , glasses <sup>15</sup> , paper <sup>05</sup>	.30
Sep. 2 - RR. to Hickman	5.99
Sleeper + porter (to Hickman)	2.25
Parcels	.40
Sep. 3 - Hotel Union City - breakfast	.75
Sep. 4+5 - Sodas Red Cross <sup>50</sup>	6.25
Sep. 5 - Hotel LaCade <sup>52</sup>	
RR. to Gibbs, basket <sup>5</sup>	.57
At Gibbs, express on basket	.62
Sep. 6 - Hotel at Gibbs - room + breakfast	1.00
RR. to Ripley	1.67
Sep. 7 - Ripley Western Hotel, dinner	
room + breakfast <sup>20</sup> auto <sup>50</sup> bus <sup>25</sup>	7.25
to Irvington, basket <sup>10</sup> , lunch <sup>60</sup>	.70
McCadden's Shell <sup>taxi</sup>	6.00
Hotel Linda, supper <sup>75</sup> taxi <sup>25</sup>	1.00
RR. to Memphis	1.19
RR. to Forest City	1.51
Sep. 8 - Forest City - Marion hotel, <sup>60</sup> <sup>75</sup> <sup>1.00</sup>	2.38
Breakfast, supper, room	.63
Express - basket	3.93
RR. to Poplar Bluff	
Sep. 9 - Breakfast, Poplar Bluff	.75
RR. to Cape Girardeau	1.58
Dinner, restaurant	.30
RR. to St. Louis	2.64
RR. to Keokuk	4.34
Sleeper's Porter <sup>25</sup>	1.50
Breakfast - Keokuk	.30
Supper	.40
RR. to Iowa City	2.40
	<u>67.99</u>

St. Louis & the South - 1917

Aug. 31, 1917 - Friday

Left at 6:30 P.M. for Elmira  
Took sleeper for St. Louis (arr at  
Elmira at 7:40 P.M. 15 min. late)

Sep. 1, 1917 - Sat

Mr. Ceyha met me + we went  
to his home, 3463 Grand Ave.  
Spent the day at Ceyha's  
(Mary, Mrs. Mich. Sinko,  
& her husband and baby + several  
live reptiles) -  
In evening had good sized  
meeting at C.E.S. hall.

Rev. Dostal, editor of Mass,  
Col. Selph, postmaster of St. Louis,  
spoke. I followed, and then  
came the Croatian editor.  
Dostal used the expression  
(Magyar) "To remember"  
(nemí elvick)  
Novak - naš poluchan byl  
nemoreni, - otrava trve na  
rym, - domí vrat. Je vrat  
slibny.  
(Dostal, mendik - byl nemoreni,  
odpovídit jsem by u drive udravil)

Sep. 2, 1917 - Sunday

In forenoon attended to tickets,  
had glasses repaired, etc.

In afternoon Mr. F. Vuch  
took us out for an auto ride.  
We went to the Jefferson  
Barracks, where troops are  
being shipped and sent out.  
Attended the funeral of a  
sergeant. It was a Woodmen  
of the World ceremony, with  
the release of a dove, etc. Also  
military, with salute of 3  
volleys by squad.

Then went out west of city  
to the old M. S. Grant farm.  
The log-house is divided into  
two parts, and the one side is  
occupied by an old crabbed  
bachelor veteran. Grant's  
room is supposed to be in old  
time condition, + various reminders  
of Grant.

Drove back, took upper left  
via the Mobile + Ohio for Union

City + Hickman.

The country N. + west of St.  
Louis is rolling, and where  
cuts appear it seems to be  
covered with loess.

It was evidently forested, and  
groves of considerable extent  
are still preserved. The  
groves of the Barracks show  
one, and the Grant farm  
another.

This seems to be a great  
country for raising sweet  
potatoes. Corn is also  
abundant, and vegetable  
gardens of considerable extent  
are also frequent.

The National Cemetery at  
the Jefferson Barracks has over  
9,000 graves, - 2619<sup>(?)</sup> marked  
unknown, - or rather by  
number only.

Sep. 3, 1917 - Monday.

Reached Union City at  
3<sup>30</sup> am, & had to wait until  
6<sup>53</sup>, took the Nashville,  
Chattanooga & St. Louis RR.  
for Hickman 13 miles away.

Platted bluffs.

Examined cut 1 on S. Wabash str.  
This is ~~about~~ <sup>more than</sup>  $\frac{1}{2}$  way down the hill, on  
the slope S. of little creek.

The upper about 7 or 8 ft. is  
light yellow. Below that about 5 ft.  
of redder stuff, - also loam, but quite reddish.

In both there are gray vertical  
streaks, which appear as if following  
roots.

Few small nodules & a few shells  
are scattered through both.

Took shells and sample (a) from just  
below top of redder layer.

Sample (b) is from lighter layer  
about  $1\frac{1}{2}$  ft. above red layer.

E. side

yellow.

Reddish

Street

Upon the light yellow -

stratum, probably 18 ft. exposed.

It is light yellow, with blue streaks

+ occasional iron clodding.

Breaks vertically.

In a gutter at base of  
(a) & (b) there is some gray  
stuff, & below that loose rocky  
material.

Wellington str. is on N. slope,  
part way up.

Buchanan str. is on top of  
ridge, with deep hollow S.  
Went along bluff to E. part  
where the bluff gradually &  
irregularly drops down to the plain.

Returned to LaCrosse Hotel  
for dinner.

Met two teachers, - one is  
to teach Botany at Fulton, Ky., &  
has had practically none.

There are no more bluffs  
northward and eastward here  
at Hickman, & as far as  
one can see.

In the afternoon went  
along foot of bluff east.

The loess is away up, forming

mostly vertical walls (18-25 ft. <sup>5</sup>)  
above a sort of bench (see old  
notes).

Shells are plentiful, but  
it is rather hard to get at  
them on account of the great  
growth of *ambrosia trifida*, etc.

The cut just inside of crescent  
showed a good many. A part of  
this was very hard when dry.

West of turn in Magnolia str (west  
of Troy) there is a good sized (8 in. <sup>d.</sup>)  
pipe which evidently sometimes  
carries water, a darby said it  
comes from stand pipe.

Many small shells, evidently loess  
were washed out below its mouth, -  
evidently carried out by it.

(see list)

Took sample of hard loess (fossilifer)  
just inside of crescent, with a few shells.

Farther on, near pipe, a softer yellow  
loess showed a few fossils (see fossils &  
sample) -

Also collected living shells  
on woods slopes in the crescent.

*Polygona tridentata* were grouped in  
pockets under leaves.

*Polygona thyroides* were creeping  
about in moist bed of streamlet  
from pipe.

The crescent on the west & south  
sides shows fossiliferous loess  
on top, - above talus.

Eastward the bluff drops down &  
breaks up more or less, curving toward  
south & running out gradually to  
bottomland.

It was a very hot, close, sultry  
day, but at about 5 P.M. a  
wind storm came up & great  
clouds of dust were raised from  
both bars & also from bar farther  
north.

This high point is a narrow  
place parallel to the street  
(Magnolia) & runs toward water  
reservoir, ending (or sagging) a  
little. It drops south fast.  
Moneta str. is much lower.

Went to Catlett street. At  
west end it drops down - there  
are steps. I went down &  
found exposure of loess.

about 20 ft below top -

exposure of soft yellow loess  
It seemed to contain *Pomelophy*  
*capitata* only (or chiefly?)

There are also a few lime  
nodules. - (See spec.)

This is a small exposure near  
top of steps leading down hill  
on Catlett street. Most of the  
bluff is less covered with  
vegetation. Went in at 7 P.M.

In the evening I was called upon at  
the hotel by the Chief of Police and  
a prominent citizen, the manager of  
a big factory, and questioned closely  
concerning my purpose in visiting  
Hickman. My platting of the bluff  
(for the purpose of locating the loess  
exposures) excited suspicion.

Tues., Sep. 4, 1917

I call the higher exposure, lower down, C, & the lower part  
along the road (D). It is one continuous exposure.

Went west and south.  
Platted bluffs below  
Cattitt street.  
Worked cut (a), at entrance to road  
East - This road runs up the  
hill, & is cut into wall. <sup>(cut to cut d)</sup> In  
lower part the exposure is probably  
18 ft. high, & grows less upward.  
The upper part is fine light  
yellow loess with no nodules &  
some gray tube-streaks. It  
shows lamination, & there are  
few fossils in it.  
The part marked 18 ft. <sup>(is cut c)</sup> shows  
no nodules, but there are gray  
patches (ironmen) with rusty  
root-streaks, - almost to the top.  
Most of it is light yellow.  
A few shells are scattered over  
face of vertical wall.

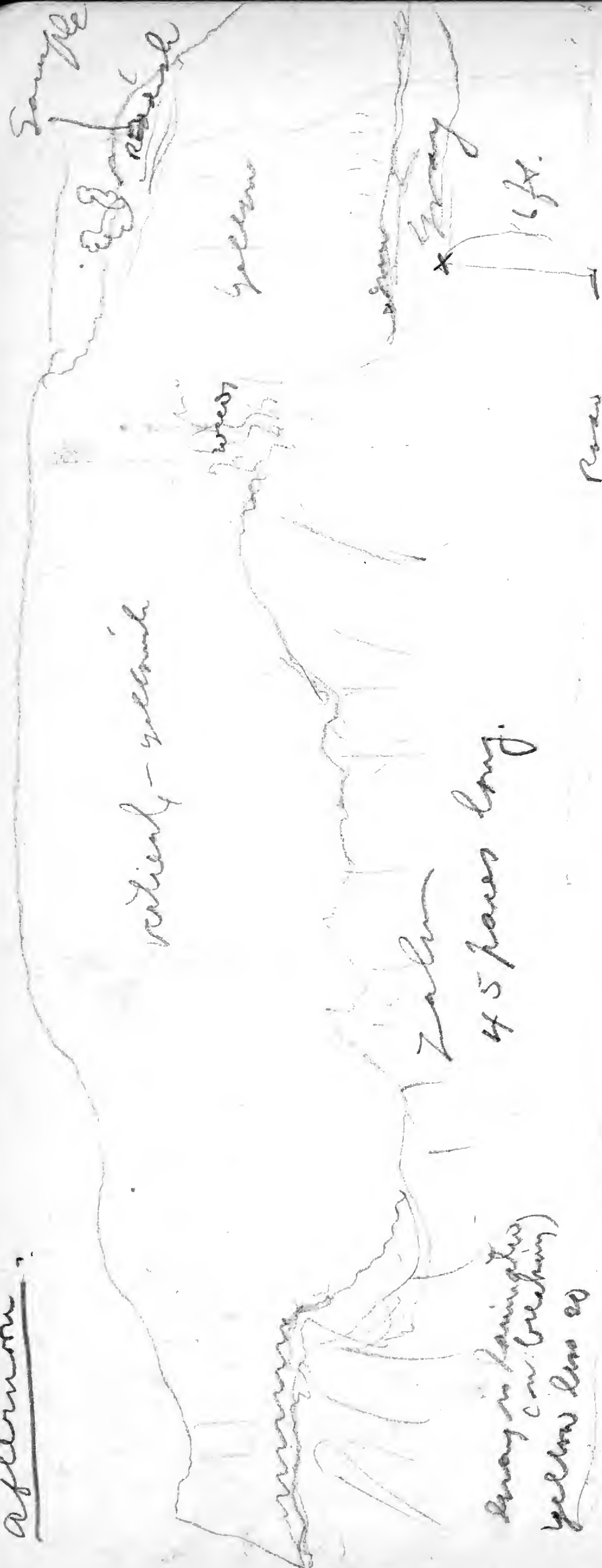
Cut b - This is part of general section  
At base, in gutter, on yellow  
loess, I found shells marked  
(b) - The cut proper is overgrown &  
slumped & was not examined.

Went in at noon & returned for address of Geologist.

The following points were urged:  
Such a plot of high points might  
benefit the enemy.  
This was a strange time for such  
work, - when the country is  
engaged in war.  
Why was Hickman particularly  
selected?

I discussed these points with  
the gentlemen, & invited them  
to my room, where I showed  
them my old Hickman notes,  
my correspondence, my letter heads,  
& my Masonic credentials.  
The chief was very gentlemanly,  
but firm and business-like.  
They went away satisfied.  
I then joined the circle of  
teachers at the hotel and we  
discussed the war situation until  
after 10 o'clock.

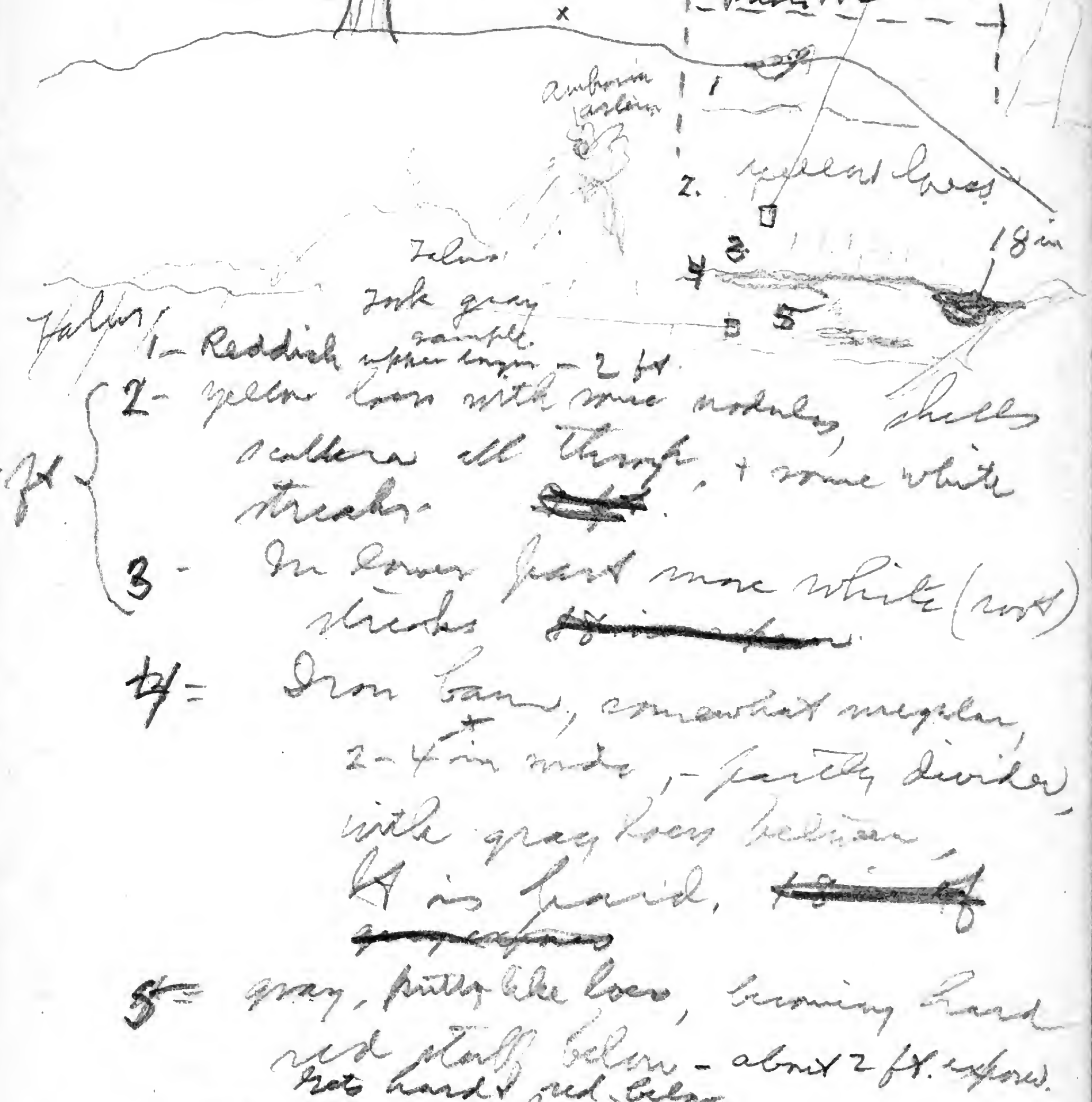
afternoon



The yellow loam is soft, quite fossiliferous, especially in lower part, & with numerous irregular nodules with shells (often). Its lower part, especially, is streaked with gray roost marks. The gray loam is more patty like, with some iron tubes & streaks, & some fossils, - mostly soft & crushed.

Photo. 11 + 12.

Cut (a) - west end - Took sample



- 1 - Reddish upper loam - 2 ft.
- 2 - yellow loam with some nodules, shells scattered all through, + some white streaks.
- 3 - In lower part more white (roost) streaks.
- 4 - Iron bands, somewhat irregular, 2-4 in wide, - partly divided, with gray loam between. It is hard, ~~hard~~.
- 5 - gray, patty like loam, becoming hard red stuff below - about 2 ft. exposed. ~~Not hard & red below.~~

Both loams fossiliferous. Part marked x is about 3+ ft higher than part where figures are. The gray loam is distinctly laminated on breaking, the yellow less so.

I took a sample of the red, harder lobule layer 1 ft from top.



Photo (122)  
Part of cut (a)

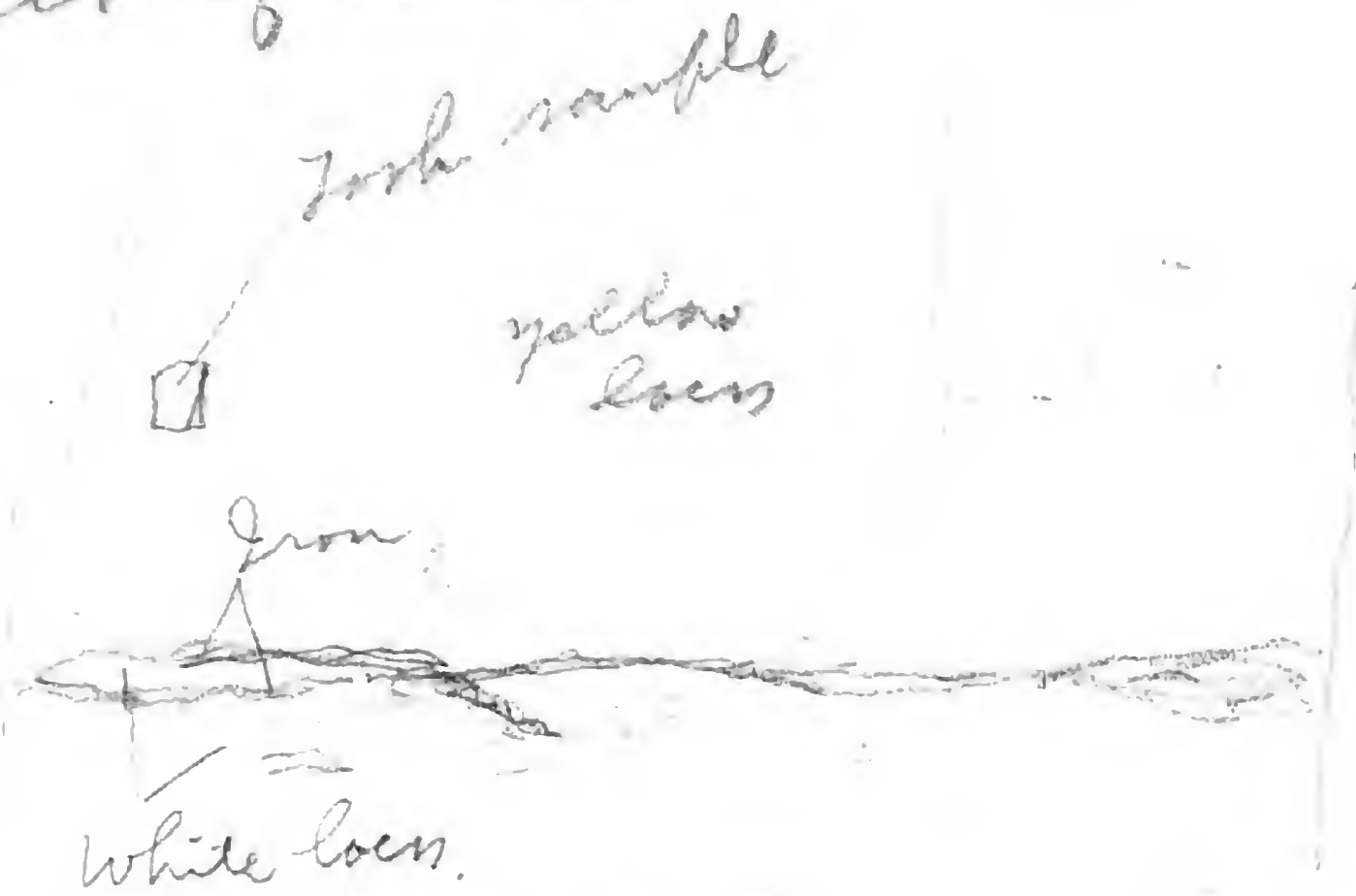
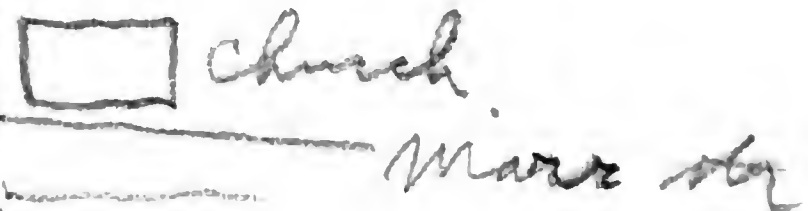
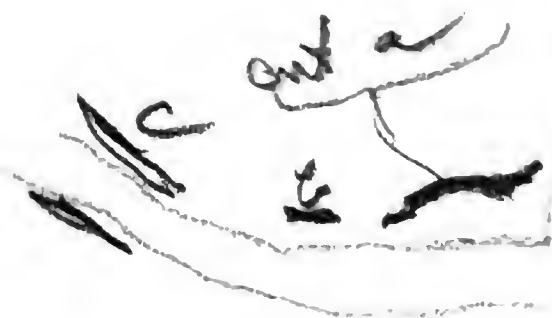


Photo 33 - all of cut a.

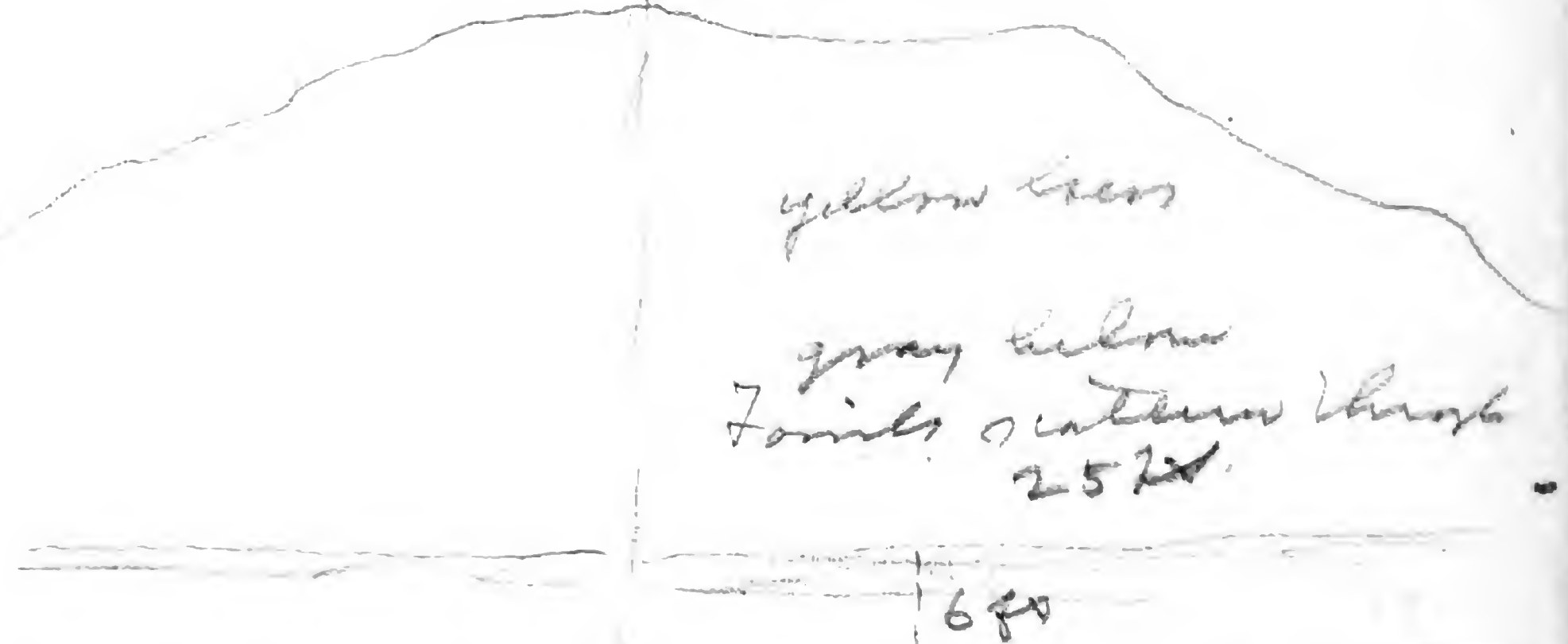
I went well up the hill around bend in road & took a sample of the soft yellow loess, no nodules, shells or tubes, which is the common form up here. Took it about 5 ft. from top of bank. It shows lamination more or less, but more where there was a slump. This is from the part marked (d).

S  
↑  
N

Went to cut a new church on Mass str.



Corner



The lower layer is hard, dark, (see sample), horizontal, with horizontal line of weathering, especially at upper limit.

Took sample of gray, 4 ft. above base (top of hard layer) also sample of dark stuff below.

Also box of shells from lower part (opposite of iron, on N. face, within 6 ft. of base)

Throughout this loam in a, b,  
c, there are gray streaks and  
pockets, - especially in lower part

After collecting fossils on N.  
side of cut e, within the  
lower 6 ft. of the loam, I  
walked south along the road  
for some distance. It follows  
a valley & there are no good  
exposures.

I also went to top of ridge on  
Vine street, where 3 or 4 ft. of  
lobular, reddish loam is at  
top, & yellow loam below, - but  
little exposed.

Returned to hotel. I chatted  
with Mr. Chick (Supt?) of  
Fulton, Ky. & we then went  
to the Red Cross benefit at  
The Elks' Hall.

I stork for a while &  
returned to drug store and  
hotel. At the drug store I

saw the Chief of Police and  
he had evidently telegraphed  
to the University for my identification  
for he told me that he knew more  
about me than he did yesterday,  
that I was with the University 27  
yrs., weighed about 200, and was  
59 yrs. old. (This last may have been  
a catch, but I told him my age  
was 56). Walker, Manager of the Box Factory,  
has been pushing the thing.

I went to the hotel and  
wrote notes and letters.

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At 1:30 I went to the County  
Teachers' Institute, held today  
in the Methodist Church on the  
hill and talked for 1:20 on  
the war situation and on  
patriotism. I had an  
appreciative and patient  
audience. I discussed:

Our duty to be in war.

Defense of democracy.

The nature of the German an

Other government.  
Pacificists & pro-Germans scored,  
the teacher's duty to inculcate  
patriotism.

The demands the country  
can make.

The significance of the flag.

Remarks like this were made  
to me afterwards:

"I wish that every citizen of  
Kentucky could have heard  
that."

"Every young man in Kentucky  
should have heard that."

Similar expressions & expressions  
of approval were numerous.

I was frequently applauded, & at the  
close the applause was prolonged.

As this will not be ~~seen~~ by anyone

I can also add that Mr. West  
at the hotel told me that one  
of the older teachers told him  
it was the best speech she had  
ever heard.

Wednesday, Sep. 5, 1917.

Went S. W. again

Photographed out e  
Photos 21 & 22

Looking S. of W.

with iron  
marker.

Hard work.

Photo 34 - Similar, but looking  
almost west.

Went S. W. beyond old brickyard, &  
collected shells & fungi S. of RR &  
creek bed (dry)

Also found Succinea creeping about  
on grass-ward flat.

collected shells under leaves, etc.  
and fungi on sticks.

Returned to Brickyard  
An old excavation around end  
of ridge, - chiefly on S.W. side makes  
a nearly vertical bank, -  
about 8-10 ft. exposed on S.W. side.

There are very few small, slender  
nodules, & the loess is light  
yellow, soft, & wide gray streaks  
and mottlings in upper part,  
& in best part of exposure for  
1/2 ft., - with vertical nodules.  
There is a layer of iron (irregular  
& not sharp) about 1 ft. wide.

Below that is the light  
yellow loess (soft) with fine  
mottlings & lines of gray all through.

The shells (fossils) were collected  
in the upper part. Little of  
the lower part was exposed, but  
there are shells in it.

This exposure is much like a  
& is in nature of loess.

Took sample from gray loess  
& one from yellow 7 ft.  
above talus.

The yellow part of thin loess (& cuts a,  
& are same) seems to me more like  
gray loess with light rusty streaks &  
dots & mottlings. When it weathers  
it forms a film of uniform light  
yellow stuff.

Nodules are very few & only one lower  
one was found.

Shells are scattered all through, - usually  
in bundles or indefinite groups, -  
& few shells in each.

Also took sample of rusty  
layer between the lower gray &  
upper yellow part.

This cut is at end of ridge, where  
it has run down.

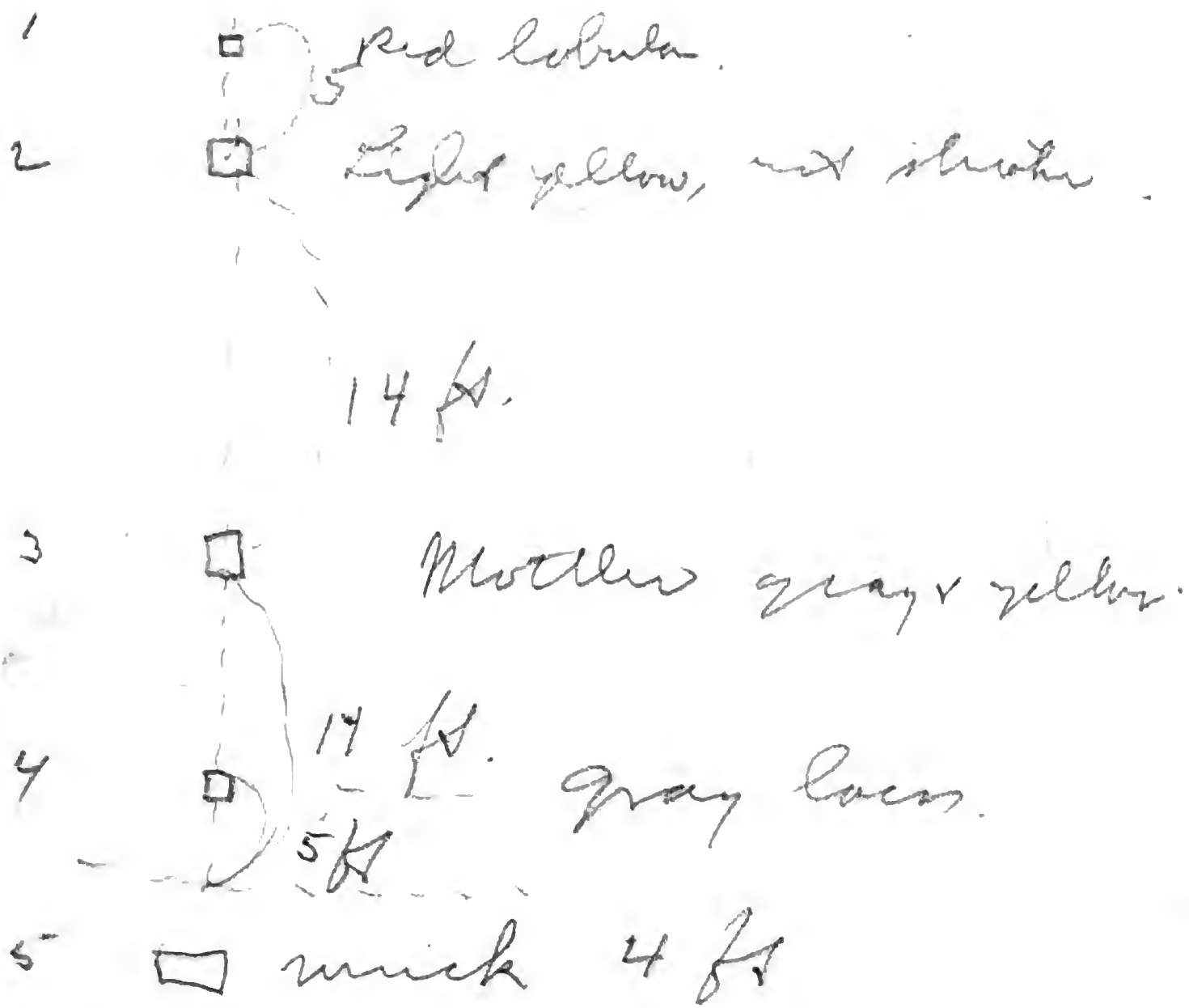
Photo 15 - shows ex. of looking  
almost East. (my samples were taken  
between 2 central  
vertical shadows)

Photo 16 - same, looking N.E.

On E. side of ridge, in part of  
exposure of facing E., the  
fossiliferous red layer shows in part.  
It is hard when dry.

Took sample 1 ft. below top.

Went back to cut 2.  
 E. side is about 35 ft. high  
 of which all but 3 or 4 ft. is  
 loess, resting on dark rock.



The stuff at 5 is very mucky & dark  
 4- is also tough & gray, with  
 some iron tubes & a few  
 shells.

3- Most nearly typical loess  
 of this exposure.  
 Fossils all through.

2- Is more uniform, no mottling,  
 shells extend to top.

1- Red lobula layer -  
 with many roots.

In afternoon went east.  
 at foot of bluff on Carroll St.,  
 just beyond Wabash (East)  
 there is a high vertical bank, -  
 about 25 ft. the base of which  
 is 70 ft. above Clinton St. - 1 block  
 East of hotel.

It shows a very broad red (reddish)  
 layer - about 3 ft., - with some  
 gravel in it. Above it the loess is  
 hard, yellowish, without nodules  
 & with few shells scattered through it  
 Carroll street, just E. of Wabash,  
 at foot of hill, is 45 ft. above  
 Clinton St.

Took within shells two samples  
 (see small red layer sample)  
 with little of the gravel  
 from lower part.)

A little to north I went to  
 a bench which is 88 ft. above  
 Clinton St., & evidently base  
 of my old cuts of former  
 visit.

What is evidently my old cut  
 2, facing west, is just S. of  
 turn in bluff.

It may be that cut 9. is my old  
2 - where I marked 2 on map  
there is an old stump showing  
roots, probably the one I photographed.

Old cut 1 is fairly overgrown.  
Fine light yellow loess shows.

Take sample.  
Collect few large shells.

Old cut 3 is about 2 rods E.  
of cut 1 - just beyond a gully  
that cuts in.

Old cut 4 - is similar to 3  
It has about 35 paces long.  
It is probably 100 yds  
W of turn to Crescent.

Old cut 5 is about 50 yds  
nearer Crescent & runs  
along irregularly almost  
to it.

Old cut 6 is evidently the  
first cut in Crescent, just  
around turn.

Old cuts 7 & 8 are in Crescent  
all this bluff is now  
densely overgrown on top  
& it is hard to get at the  
banks, - even to see them.

Photo 3 - Looking NW. at bar  
along Mississippi.

Dead trees (tornado) to left  
Photo 4 - Looking almost N. at  
bars in Mississippi  
Both from point at turn  
into Crescent.

Cut 6 is well inside the  
Crescent. It is nearly 30  
paces long, & shows loess  
(one sample of Monday)  
exposed about 15 ft.

Gravel conglomerate in path  
below it.

The pipe at mouth of which  
I got many small shells is  
located just beyond (East) of  
turn in Magnolia. It  
collected living *Polyspa thyroides*? (*trivolata*?  
in same place - where damp.

Took photo of Mississippi  
& bars from road at  
turn at E. end of Magnolia  
street. Photo 15

Readings cor. of Magnolia  
alleyway.

160

(hill back is 5 ft high.)  
Intersection of Carroll & Walnut  
streets = 78.

Photo 16 - River & bars  
from Carroll str. near  
Ohio - dead trees (cyclone)

The bluffs come down  
very abruptly to Carroll  
str. most of the way & then  
more gradually downward  
to Clinton (or nearby)

I went to hotel, packed, and  
left for Gibbs at 9<sup>10</sup> P.M. via  
Nashville, Chattanooga & St. Louis R.R.

J. O. West is the owner & manager  
of the La Clede Hotel.  
Hickman, Ky.

Mr. Cowgill is the old druggist.

Urban B. Hughes  
Winchester, Ky.

J. C. Check,  
Fulton, Ky.

The red-nosed man with little  
black moustache, who hung about  
the drugstore, was Walker, I  
think.

(Get names of Green(?) & other  
man, from Check)

The place where the dead  
trees, killed by tornado, are,  
& where there is a big sandbar,  
is an island.

Spent the night at the richly  
furnished little hotel (at least the bed & furniture  
were richly!), after shipping  
my basket of samples, etc.

Thurs., Sep. 6, 1917

Left Gibbs at 6<sup>05</sup> am. for Ripley.

all the region to & beyond Dyersburg is a gently rolling plain. Look like good farming country.

At Fowlkes there is a long cut, running both sides of the station, - from 6-10 ft deep, which seems to be loess, with a gravelly layer below - probably 6-8 ft. of loess, - yellow.

All the streams are very muddy here, - a deep yellow. Roads are very dusty, with a light yellow loess color. Small cut before entering Curve also one - 5-7 ft deep at station yellow. A little rougher here with yellow gravel.

Several cuts south of Curve in the rougher country, show much gravel, under thin veneer of loess.

Reached Ripley at 8<sup>30</sup>

Went out to the Big Cut on Ill. Central RR.

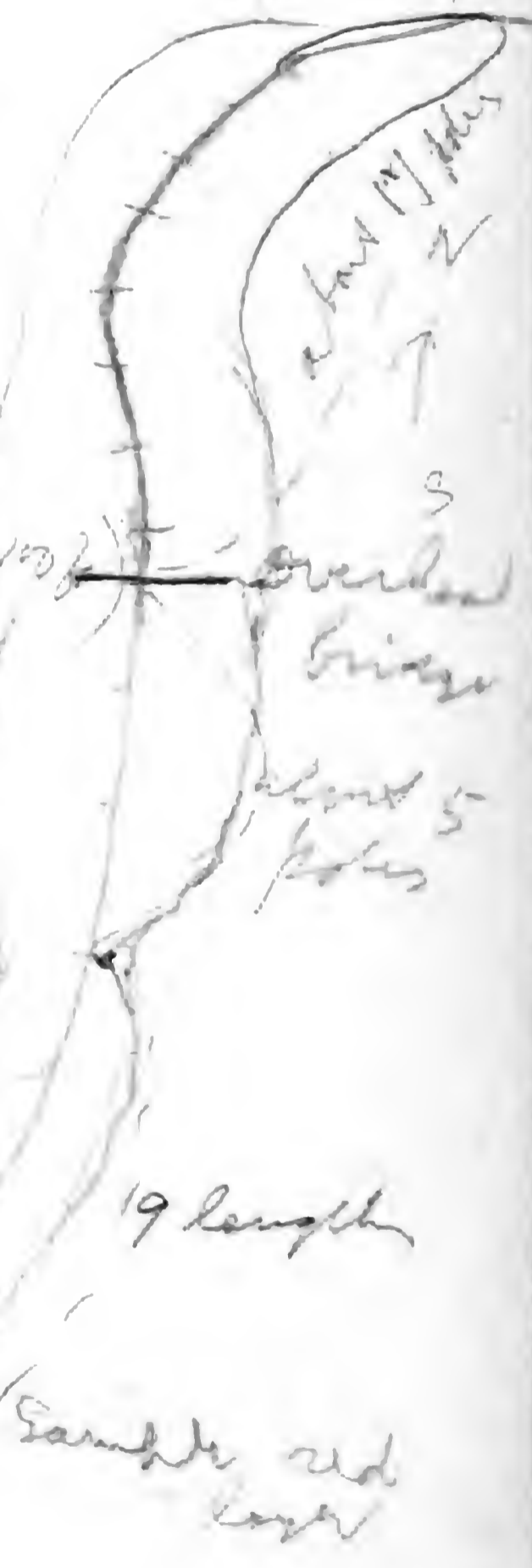
This is a deep cut, taking southward.

At the S. end there is a distinct gravel band.

At 3 tel. pole length (cut 100 ft) where I took sample, the cut is about 11 ft deep.

The lower half has some coarse gravel from about 3 ft. of red joint clay with scattered gravel, then the red sand of which I took sample.

There seems to be no loess right here





The west side is higher & shows a very deep red gravel bed, & at the top a lighter material probably loess.

The gravel layer is mostly cemented sand with round iron tools a sample of the loess-like stuff from W. side, opposite the sample on S. side

This stuff is light yellow, with gray root tubes or streaks, & is probably loess, but very hard (or loess)

There are no fossils & no nodules in this part.

Some of the light yellow stuff just above red gravel bed is fine sand.

Towards the bridge the red sand and gravel are horizontally distributed, up to 7 or 8 ft above track (on W. side, - E. side is slumped & overgrown.)

At overhead bridge the cut is at least 65 ft deep

much slumped & overgrown at 5<sup>th</sup> pole from bridge & (on E. side) the cut begins to pitch down.

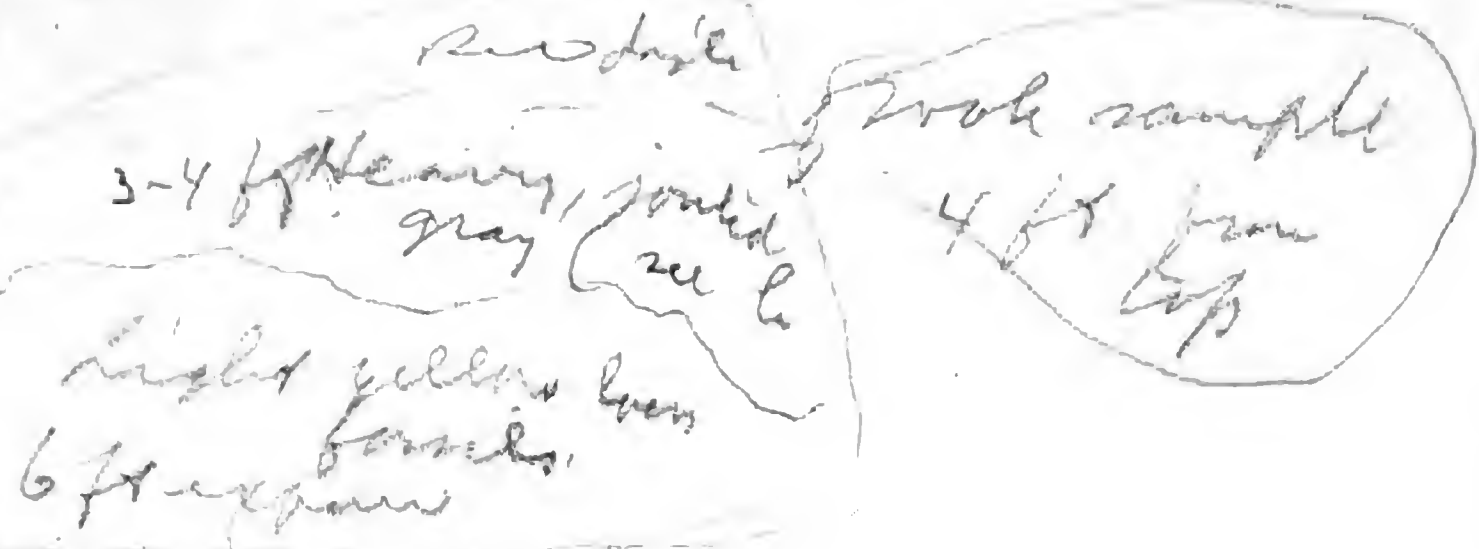
This big cut begins a short distance S. of the depot.

Several small cuts, running 6 to 8 ft, & thereabouts, north of the depot, along streets etc. show the same red, jointed stuff of which I took sample in big cut. I also followed road N. W. for about a mile & found same red stuff.

At overhead bridge I took sample near top (on E. side) and it is the same reddish stuff.

When exposed to the air it turns yellow & becomes very loess-like. We drove (2<sup>45</sup> pm) towards Ashport, to Ashport Bluff. This is N. of west of Ripley, & half-way to Ashport (= 8 miles)

Ashport Bluff (8 miles out)



The stuff in cuts between Ripley & this bluff is the red, lobular stuff as at Ripley. Ripley is on a high plateau. Out a few miles the level drops to another plateau & this extends to Ashport bluff. The surface is somewhat irregular, but a general level is maintained (broken) on these plateaus. As we approach Ashport bluff occasional grayish beds (a foot or two deep) appear on top. The above loess is a little below the top of bluff, along road winding down. There is gray lobular stuff also in (Normal?) see shells & samples

Drove towards Fulton. Mostly red stuff everywhere until 2 miles from Fulton. Thompson hill is the long hill about 2 mi. from Fulton. Here there is a long hill & the lower 1/2 or more than 1/3 is the red, lobular stuff.

Above this is a bed of light yellow loess with gray root marks (lower down it is quite gray). About 5 or 6 ft exposure (15 ft. with gutter on NW side). A good many shells are scattered through this, & a few (very few) nodules were found.

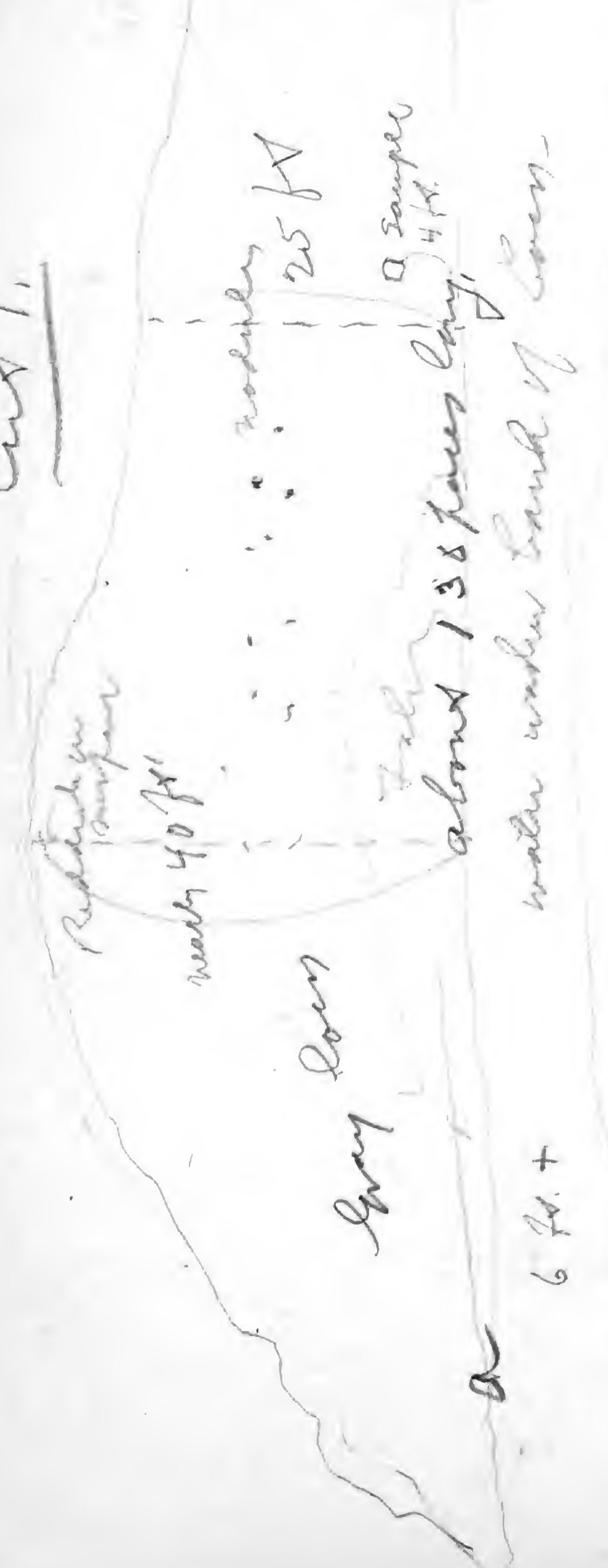
The loess runs up another third or more, & then, above it (or part of it) there appears the red lobular layer like at Hickman.

Also collected a group of *Quereux rubra* on the hill. Leaves were too high.

Drive to Fulton

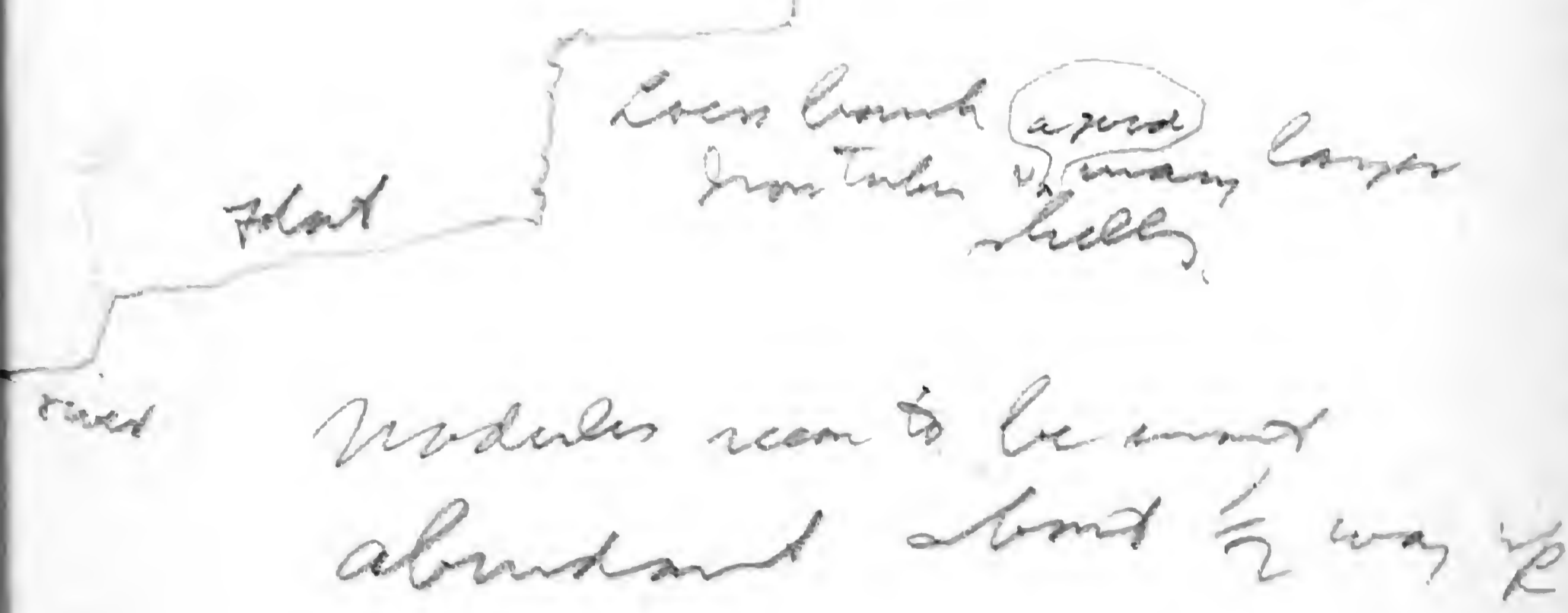
The Fulton bluffs are fine.  
Just above store is bluff 1.

Cut 1.



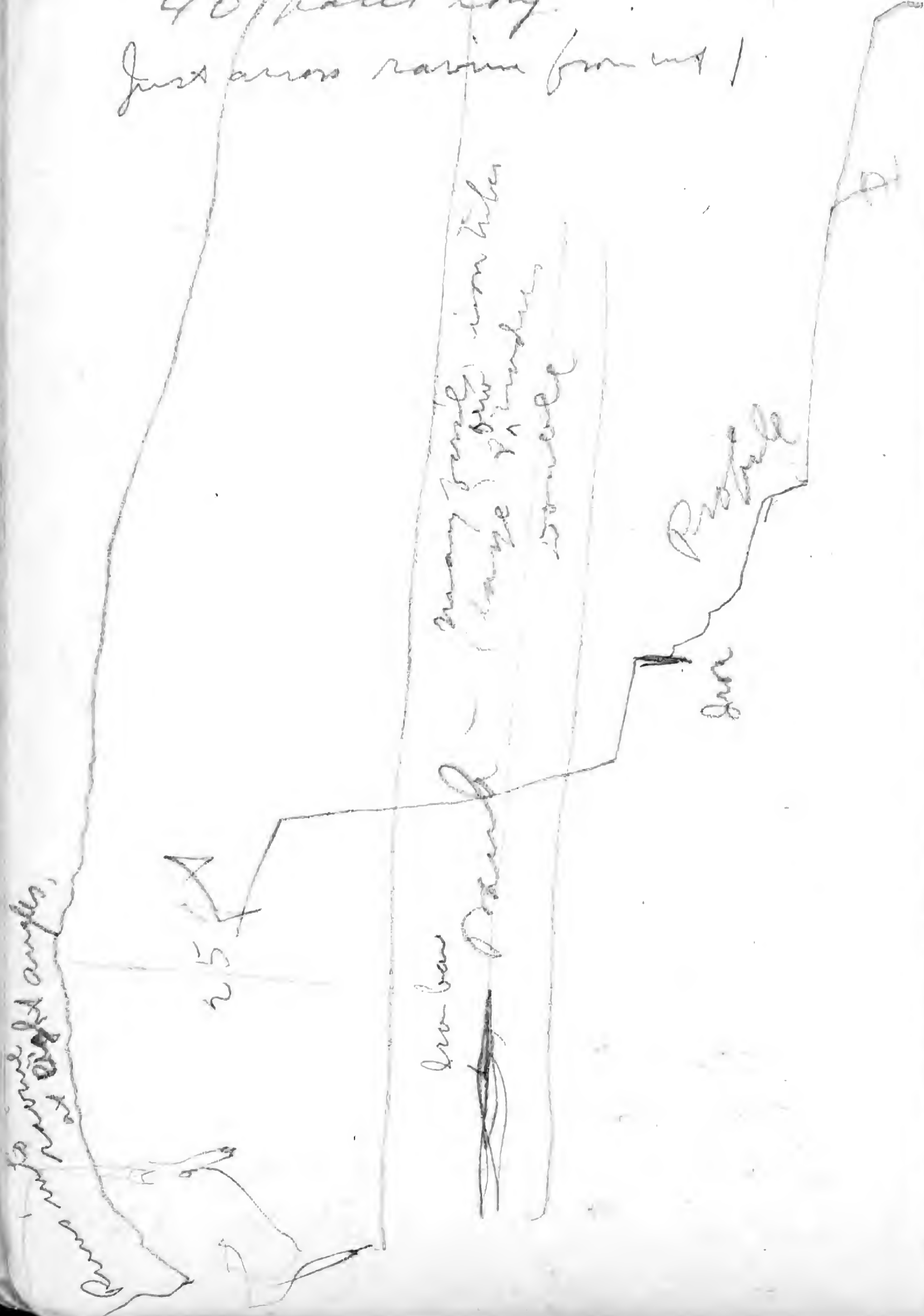
Lead to river, - with  
 step near water,  
 now even with high water  
 evidently made as

The loess in the first  
 bank below cliff is gray with  
 many iron tubes & blocks.  
 The fossils in this lot were  
 taken mostly by digging, from  
 first six feet above bank.



Bluff 2 is E. along  
river & is similar, but  
its best part is only about  
40 paces long.

Just across ravine from cut 1



In the vertical gray loess  
above bank or bench the  
shells are mostly smaller &  
scattered (see box)  
In the bank or bench  
there is gray loess with  
many large iron tubes,  
especially in cut 2  
Nodules are abundant  
in cut 1 scattered through  
vertical part (especially  
about middle). These  
are mostly rounded.  
Nodules are also abundant  
in cut 1 & few at S. end  
of cut 2 in upper part of  
bank or bench. These are  
mostly more irregular.  
Large iron tubes are found in bench.  
Large shells are abundant in  
bank or bench, especially in  
cut 2. Were these thrown out  
on old shore?

It is evident that high water reaches base of vertical bluff & work could not be done here in high water times.

I collected shells from bank & vertical bluff (separate lots) in cut 1, & from bank in cut 2.

The upper part of vertical bluff looks reddish, but where fresh exposures (small scalings) appear, it is gray.

Took sample of gray loess from 4 ft. above base of vertical bluff in cut 1. Also sample & root-tube (iron) gray loess of bank, a bench in cut 2.

I saw no pupae. Had 2 punctures & the light sign's work. We got in about 9 P.M.

There are less prominent bluffs below Fulton, & also some above cut 2, but the river bends to East here and I could not make out.

This was well worth while. A steamer came down the river, just touched for mail & sailed on.

I spent night at the Western Hotel.

It rained in streaks between Fulton & Ripley. At Ripley, but little, & dust was very deep at & near Fulton.

Friday, Sep. 7, 1917

Around 6<sup>30</sup> Packer  
left on the belated fast train  
at 7<sup>50</sup>, reaching Covington about  
8<sup>30</sup>. Gips & Penn were left at  
station by taxidriver & received later.  
Arranged for drive to Randolph  
& to Richardson's Landing  
miles below.

It is sultry & warm, with some  
clouds, but I hope that it will  
be safe.

We started out at 10 am &  
drove to Randolph. The bluffs  
here are mostly stumps &  
overgrown & I found no loess  
collected ferns & other plants  
in woods, & also a few  
shells.

Drove to Richardson's Landing,  
5 miles below.  
There are great high bluffs  
above Richardson, - I should say for  
a mile or more. Upper part loess,  
next gravel, then stratified  
shaly stuff. I could not reach  
the main body of loess, but

took a sample from near side on  
medium high part (south).

On looking down the wall of loess, covered  
me a few shells (?) ferns, etc. in low woods,  
Drove back, collecting ferns, etc. in low woods,  
steep pitch, 1 mi. this side of  
Richardson, down by way down  
a gray loamy, putty stuff &  
over it yellow loess (?) 8 ft  
color.

Further up hill bulk is red  
mottled, - 12-15 ft.

Over it, on top, loess  
red - 3-4 ft.

See ranges of loess

There were no fossils & no  
nodules.

Collected oaks (black oak  
group) on upland a mile or  
more beyond this steep pitch, -  
hence not far from Randolph.  
All of these oaks have rather  
smooth bark.

I took specimen of the  
branches (leaves) & acorns.

They are numbered to correspond.  
These were all clear loess.

along road 10 mi. W. of  
Covington is a cut, <sup>best part in</sup> 80  
paces long & running up to  
12 ft. deep.

It is soft yellow loess, with  
very few nodules & scattered  
shells.

See sample

" nodules.

" shells.

Occasional blue marks  
appear in some of it, especially  
lower down on slope.

See sample of each.

Fossils are scattered all  
along & through it.

The loess extends down hill  
beyond the top (at end of 80 paces)  
& a few shells are scattered  
in it.

Drove in, had supper &  
took 6<sup>30</sup> (6<sup>45</sup>) P.M. train  
for Memphis after tedious  
wait, left at 11<sup>40</sup> P.M. for  
Forest City

W. G. Barnes  
Marble, Ark.

Is interested in plants  
met him on train, will  
live in new Arkansas  
on train to Memphis.

Sat, Sep. 8 1917

Reached Forest City at  
2 AM, & put up at  
the depot hotel  
arose at 8, & after  
arranging my materials,  
looking up time tables  
etc., I went on Cronk's  
ridge & worked from 10 am  
until 3 PM.

On top of ridge is thin  
same lobular, coarse, hard  
red layer that I found  
in Tenn. There is also a  
reddish layer below  
which is more loess-like

also some grayish, like  
hard gray stuff near  
Randolph. In fact all  
this top of Crowley's ridge  
is strikingly like the inland  
stuff at Ripley & Cornington.

The top of Crowley's ridge  
is not fertile, - crops look  
poor.

This reddish stuff when  
pulverized looks like yellow  
loam, - in roads, etc.

I walked on top of ridge  
about 3 mi., along road  
which curves S. E. & then  
N. E. towards Madison.

Collected plants, etc.

On curve S. of Forest City  
as you ascend the ridge the  
hard, red, coarse, tubular  
stuff in on top on hill.

Below is a more loose like  
reddish layer.

Took samples.

Part way down the slope  
a hard (when dry) gray loam-  
like stuff appears.

At the foot of the hill  
there is a layer of gravel,  
3 or 4 ft. deep, - red, -  
& over it is the reddish  
somewhat loam like stuff.

See sample.

On the older part of the  
bank there is a reddish  
subsoil (film) on the  
surface. Beneath it  
the stuff is yellow.

This part of Crowley's  
ridge seems to be clearly  
related to the stuff at  
Ripley & Cornington.

I picked open cotton bolls,  
some plants had green fruits  
& ripe fruits & flowers.

Packed, shipped a basket  
wrote letter to Cyba, had  
supper and took the



7<sup>14</sup> PM. Train for Poplar  
Bluff, there to change for  
Cape Girardeau.

Reached Poplar Bluff about 3<sup>30</sup>  
after change & waits at  
Wynn & Knoble (an awful  
way to go). & waited about  
station until after 6 AM.  
Then went to Jisco depot,

2 blocks away, Sunday, Sep. 9, 1919  
Left at 7 AM.

RR. runs along bottom land.

Saw pond with Nuphar  
advena with leaves, & a  
short petioles, rising out  
of shallow water.

along RR. saw  
Andropogon scoparium  
Cuculia tuberosa  
Solidago nemoralis  
Cassia chamaecrista  
Oenothera biennis  
Erigeron canadensis

Ambrosia artemisiifolia  
(many pools with Nyctephanes,  
Nuphar, etc.) Lythia cordata)

Quantities of fine leaved Helenium  
and masses of logania,  
at the little station Green Cox  
we first came in sight of the  
low wooded bluffs, - some  
distance to the left. all along  
we have been passing over bottom-  
land, - mostly forested.

We approached close to the low  
bluffs at the next little station.

Soon we left the bluffs  
again & traveled through bottom  
woods & clearings.

We passed several small saw mills.  
The plants are mostly low-growth.

Hibiscus militaris  
Coreopsis (ridens?) fine one  
Eupatorium - white  
Veronica fasciculata  
Zizia latifolia  
Polygonum -  
Lythia cordata  
Cyperus  
Cyperus

*Alisma plantago*

For some distance we ran next to a higher bench or terrace. This was approaching Wash & at that point

A lot of girdling of trees near Wash. We backed from Wash from Rock View on there are rocky bluffs nearby.

We backed to Chaffee, then forward again to Rock View, & Wash.

At Gulf Pt. a big quarry. Here we run close to bluffs - limestone. Reached Cape Girardeau at 11 am.

At Cape Girardeau there is a rather abrupt bluff above depot (1 block to north) It is not the very highest bluff along here, but is well up, nearly on level with general upland.

The material is calcareous heavy jointed reddish, - like stuff in Tenn - or Crowley's ridge. Occasional gray strata in it. (see sample)

I saw no loess.

When pulverized, as on road, it is loess-yellow.

The bluffs here probably run 60 to 80 ft.

I collected a tall grass & a white Eupatorium, both on the bluffs, but both common on the low lands through which we passed.

Also a Vernonia on the slope.

We left Cape Girardeau (as called from a rather low point projecting a short distance into river?) at 3<sup>30</sup> pm. - 35 min. later.

In places there are rocky cliffs close to RR. At St. Genevieve no bluffs worth mentioning are in sight, - just a little swell, or elevation, on which town stands.

There are practically no negroes in the territory this side of

Poplar Bluff.

Members of them come from Mississippi into Arkansas. St. Francis county has 5 negroes to 1 white.

The women are better workers than the men. The latter "run after women all night", & are no

good next day. To raise a  
farmer with whom I rode  
near Forest City.

Land values have been going  
up. Land of flats, some of it  
now \$90 per A. Much of it  
still for \$35. - This near  
Forest City.

Along St. Genevieve are low  
rocky cliffs & slopes.

At next station hills became  
higher.

I noticed no large bars  
in this part.

Now came to some bars -  
mostly mud.

Train was late. Reached  
St. Louis at 8<sup>45</sup> PM.

Mr. Cyka, Mr. Svoboda and  
Mr. — (with auto) were waiting  
for me. Went to Cyka's for  
supper.

Monday, Sep. 10, 1917

Went to bed in sleeper just  
after midnight. Awakened at Quincy,  
& we reached Keokuk at 7<sup>45</sup> AM.  
I walked down the track towards  
the Des Moines.

Collected shells on the wooded  
rocky slopes & also under sticks  
on flat.

Under stones I found *Poly. affinis*,  
(several) 1 *P. brachyura*, *Papa*  
*arabica*, *Papa jacksoni*, *Patera* *alticola*  
Others under sticks.

I collected a good many plants,  
both along RR, on the wooded  
slopes, & in an opening above  
the big clay bank on the Des  
Moines

This clay bank shows rock below,  
then gravel, & then a mottled  
mixed mostly gray stuff (see  
sample) like some of that  
near Round Bay, etc.

There is no true loess here,

and this stuff seems to  
belong to that southern  
series which I followed in  
Ky., Tenn., Ark., & S. Missouri.

I picked up a goodly  
number of parasitic fungi,  
& a few other species.

This has been a pretty good  
day. Returned at 6 P.M.,  
had supper at station.

Left at 7<sup>43</sup> P.M. (late - 8:20)

Waited at West Liberty  
until 4<sup>30</sup> A.M. & reached Iowa  
City at about 5 A.M.

Trip to Mason City, 1917

Sep. 21 - RR to Cedar Rapids	\$ .50.
Sep. 22 - RR to Mason City	2.83
Pullman	1.50
23 - Boat, C.A. Comstock	1.00
Clear Lake	
- RR to Cedar Rapids	2.83
Pullman	1.50
	50
(- RR to Iowa City	
Breakfast - en route	.48
	<hr/>
	10.61

To Mason City, Sep. 21, 1917

Left Iowa City at 11:30 AM. Reached Cedar Rapids at 12:50 AM -

Sep. 22, 1917

Left Cedar Rapids at 1:15 AM. Awakened before we reached Packerburg. Everything looks decidedly fall-like. There had been a killing frost. The day bright, but somewhat hazy. Interesting contrasts are noticeable. Corn is broken, dry, brown, excepting at very base, but right alongside of it is a fresh green *Cirsium*, or *Helianthus graminifolius*. Noticed within  $\frac{3}{4}$  mi. side of Mason City,

The following in flower:

- Gentiana puberula*      *Senecio laciniatus*
- Solidago nemoralis*
- "      *v. angustata*
- "      *canadensis*
- "      *viridis* (rather old)
- Aster novae-angliae*
- "      *multiflorus*
- Helianthus graminifolius*
- Cirsium discolor?*
- Aster laevis*

Following are through:

- Silphium laciniatum*
- Liatris pycnostachya*
- Solidago lanceolata*
- Andropogon furcatus*
- Elymus canadensis*
- Prenanthes aspera*
- Panicum virgatum*
- Andropogon scoparius*

The whole aspect of flora is that of late fall. Can & native flora both show it.

Reached Mason City at

8<sup>15</sup> & drove to Jock's.

Joe had Mr. Stephanson take me out to the prairie east of RR. along N. side of Slough.

Mr. S. is an old friend of R. M. Anderson (at Forest City).

Flora through here seems to be crowded chiefly with a big *Bidens*.

East prairie, along road & slough.

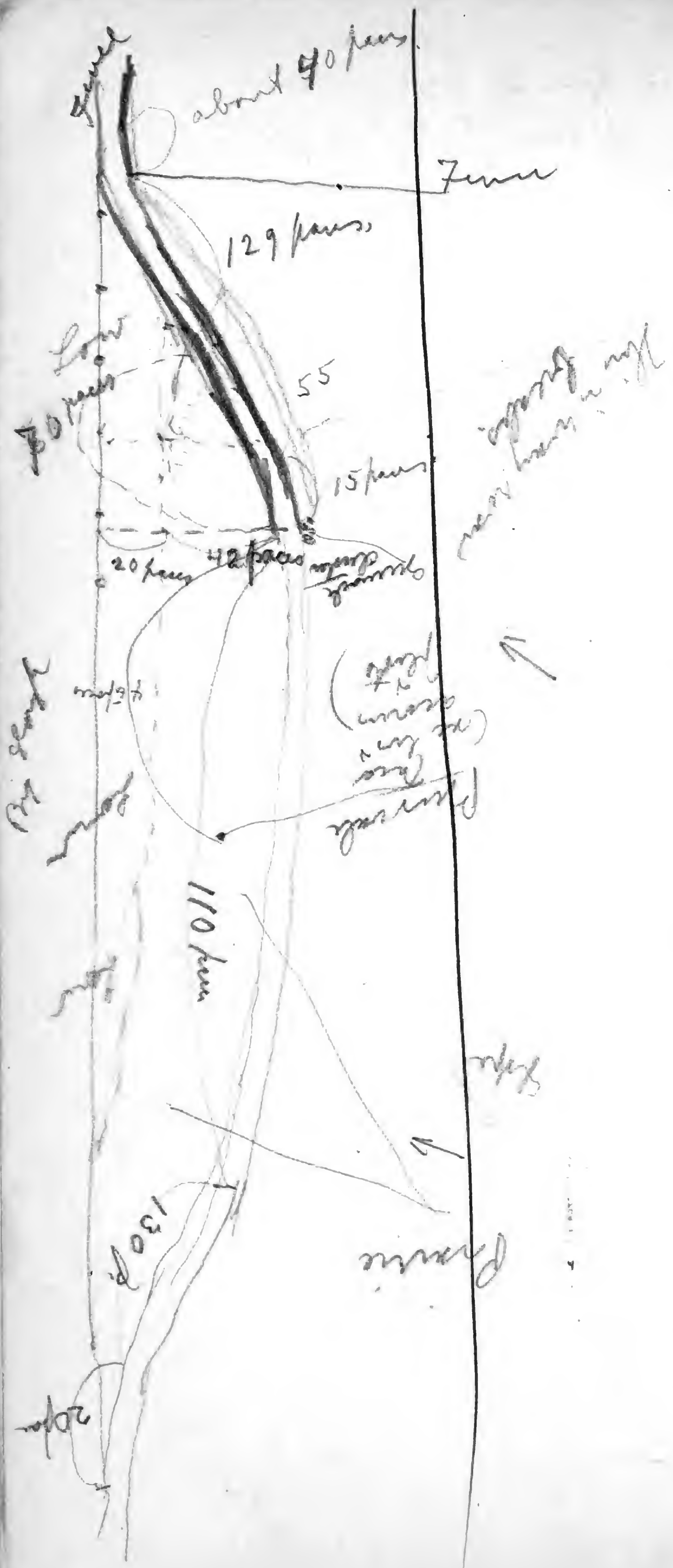
- Linum sulcatum* - fl. + fr. - scattered
- Aster laevis*, fl. - common
- " *multiflorus* " " "
- " *montanus* " - rather common - lower down.
- Solidago canadensis* - fl. - scattered
- " *virgida* - fl. + fr. - common
- " *v. arguta* - fl. - common
- " *nemoralis* fl. + fr. - several
- Eriogonum ramosum* - fl. - few
- Phlox pilosa* - old fruit, scattered -
- Scutellaria ludoviciana* - fr. - several.
- Silphium laciniatum* - fr. - scattered
- Lespedeza capitata* - fr. - common
- Artemisia cyparissias* - fr. - scattered
- Helianthus scabra* - few fl., mostly fr. - quite common
- Mimulus sulcatus* - common - fr.
- Helianthus grosseserratus* - fl. - common
- " *scaberrimus* - fl. + fr. "
- Arenaria canadensis* - lf. - lower down - common
- Centromerus pulchellus* - fl. - scattered
- Erigeron annuus* - lf. - not rare.
- Asperula tomentosa* - fr. - scattered
- Lythrum hyssagifolium* - fr.
- Spinaea striatifolia* - lf. - lower
- Sideroxylon pinnatifidum* - fr., few fl. - common
- Valeriana alba* - fr. - chiefly along road
- Petalostemum candidum* - fr. - scattered
- " *purpureum* - fr. - more common

- 30 *Cirsium* — scattered  
*Liatris cylindrica* - fr. - few.  
 " *scariosa* fl. & fr. - common  
*Ceanothus americanus* - fr. - scattered  
*Artemisia ludoviciana* - fr. - scattered  
*Desmodium canadense* - fr. - few  
*Branchea angustifolia* fr. - old - scattered common  
*Prenanthes alba* - fr. & fl. scattered  
*Erigeron borealis* - lf. - scattered  
*Panicum scarbium* lf. "  
*Eryngium yuccifolium* fr. - few  
 40 *Thalictrum dasyc.* lf. - scattered  
*Veronica virginica* - old fr. - scattered  
*Elymus canadensis* - fr. - common  
*Cirsium discolor* fr. - few  
*Styria* (?) - <sup>sp. 1</sup> ~~blady~~ <sup>old fr.</sup> ~~only~~ - ~~scattered~~ (very)  
 45 *Asclepias syriaca* - scattered  
*Potentilla arguta* - old fr., scattered  
*Lithospermum canescens* - lf. - scattered  
*Rosa* - fr. - scattered  
*Equisetum* - few  
 50 *Coleosporium palmata* - fr. - scattered  
*Amorpha canescens* - lf. - scattered  
*Salix humilis* - lf. - common  
*Lupinus* (fines) - few  
*Aster americanus* - fl. - scattered  
 55 *Physalis pubescens* - lf. "  
 " *peruviana* - lf. - few  
*Sorghastrum nutans* - fr. - scattered - down  
*Panicum virgatum* fr. - "

- Koeleria cristata* - old - scattered  
 60 *Helianthus major* (?) - lf. - few  
*Rubus* *lucida* - fl. - few  
*Delphinium bicolor* - old fr. - few  
*Lathyrus venosus* - fr. - few - up  
*Prunella racemosa* - old - few  
 65 *Ambrosia psilostachya* (?) - fl. - "  
*Acer* *rubrum* - old - few  
*Vitis rotundifolia* - lf. - scattered  
*Ostrya virginica* - fl. - "  
*Verbena dentata* - fr. - few - common  
 70 *Prunella racemosa* - fl. - scattered (fresh)  
*Fragaria virginiana* - lf. - above - scattered  
*Asclepias tuberosa* - old - above - scattered  
*Ambrosia trifida* - fr. - small - above - "  
*Cirsium discolor* - lf. - com. above  
 75 *Elymus strigosus* (?) - old - few  
*Delphinium* *hercynicum* - above - small clump  
*Prunella virginiana* - lf. - 1 small above  
*Ornithogalum* - fl. - scattered  
*Potentilla canadensis* - fr. - scattered

A fine piece of typical prairie.  
 Photo 15 & 16 - looking E. - in thin East prairie  
 slopes to S. + a little west -  
 River probably 12-15 ft above swamp

Also collected loc. & down from  
 low oak - solitary - under, 30 ft  
 high - 9 in diam. in E. prairie



Photos 15 & 16 - looking E. (E.S.E.) along  
Big Slough from road.

Photos 1 & 2 - Looking up the Big  
Slough from road.

Worked along the slough W (west of road)  
The prairie on E side showed.

- Bouteloua curtipendula* - fr.
- " *virgata* - old
- Small grass.
- Panicum acutum* - fr.
- Tranthes*
- Andropogon furcatus* - fr.
- Andropogon scoparius* - fr.
- Adiantum nemorosum* - fl.
- (see on the)

The swamp is nearly all overgrown  
with a large sedge, & this is mostly  
rotted.

There seems to be almost no *Hypnum*  
*fluitans*, but I found a flat plant  
in mud (see). *H. fluitans* is abundant  
in open part near road.

A few clusters of cat-tails when  
the bog is very sticky near them.

- Flora in swamp:
- Aster* - scattered
  - Stemoneura quadrifolia* - a large Carex
  - Aster* (white flowers!) - dominates.
  - Sium* - (see rust)
  - " - fr.
  - Salix*



I found shells but few.  
Few *Leptostomus*  
More *Planorbis* — ( )  
Very few large *Purpurina*  
No smaller "  
No *Hymanina* —  
The place is partly drained &  
is being worked.

A lot of buckbean appears  
near road in open place.  
Collected algae (*Ulva*?) E of  
road. Found barley on wooded bank at  
edge of Big Slope.

Returned & spent little into  
the night carrying for leaves, etc.  
which I had collected

Sept 23 - 1917 Sunday

Left for Clear Lake at 8<sup>10</sup> AM.  
Got boat & rowed straight S.  
from street on which Antlers  
comes in

Dulver.

I - about  $\frac{1}{3}$  way S. of Clear Lake  
12 ft. - soft ooze in jar.

II - about  $\frac{2}{3}$  way S. of Clear Lake  
13 ft. - more like little  
pieces of mud. In jar.

III - just E. of island, near  
new S. shore - 8 ft. deep.  
mud same. (In jar.)

Landed at Grand View Pt. &

collected wood plants.

Also Oaks as follows:

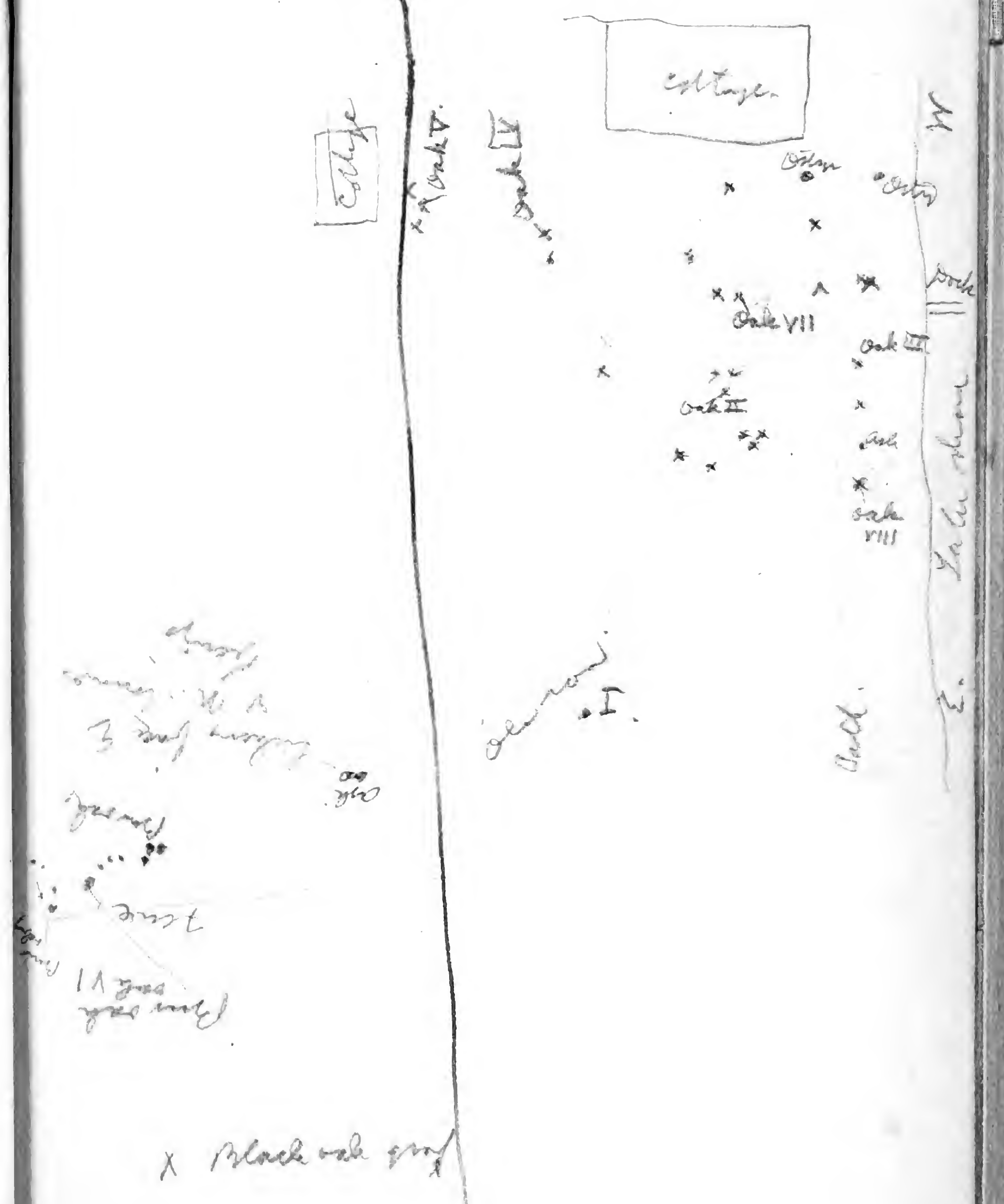
I - Smooth bark, leaves small & deeply  
notched. 13 in. diam. near edge of  
grove.

II.

- II - Oak - lower part (3 ft) of bark quite rough - upper smooth, (all fresh) 10 in diam
- III - Oak - 10 in diam lower 2 ft. rough - reticulated upper - smooth plates (also red oak) near lake shore
- IV - Oak - lower 10 ft. ~~rough~~ rough (this is rougher bark than most, very reticulated) upper plates - gray - darker between plates. A double tree, winter at base. Diam = 11 in. (other = 14 in)
- V - Three trees - one marked = 10 in diam. & one = 12 in. lower 5 ft. rough. Gray plates, etc.
- VI - One oak. At very edge of grove, facing open place E. of 59. One side trees - with long branches almost reaching ground on E. side. Has rather smooth bark. 12 in. diam
- VII - Oak - lower 3 ft. somewhat rougher upper plates - gray, darker between plates, in cracks. A double tree, winter at base. Diam = 11.
- VIII - Oak - lower part (4 ft) of bark quite rough - upper smooth (red oak fashion) - 11 in. diam, 12 ft. from edge of bank, lake shore.

The bark of IV has ridges broken transversely so that it is quite irregular.

all these trees (numbered) are marked with Roman numerals on N. sides. Leaves were taken from 9-14 ft. high.



Lichens abundant  
Most of the lichens are  
on lower parts of trunks &  
fence mostly N. along bank, &  
at S. edge of zone, S.  
Some irregularly - always  
towards opening.

Quelby

IV - In line with Clear Lake Park  
& gran view pt. & out about  
250 yds from Pt. in <sup>10</sup> ft.  
of water.

V -  $\frac{1}{3}$  way N. from Point - <sup>12</sup> ft. of water  
Ooze.

VI - Half way on E. side, well  
towards Bad Shore.

(Add <sup>13</sup>/<sub>2</sub> ft. to each of above)

VII - 12 + 1 ft. - about middle &  
well to NW.

Returned to Clear Lake &  
collected a few same plants  
on base sand beach.  
Also rocks, etc.

Drove to Mason Co. with the Montague's,  
packed, & left at 9 P.M. for C. Lake.  
Along Interurban it is very  
noticeable that the corn as well as  
native plants, are fresh & green.

Reached home at 6<sup>20</sup> am.

To Decatur

Oct. 4 RR. to Iowa City	8	.65
RR. to Decatur		2.50
Supper, Maynard		.35
(Hotel Wimmerlich - paid)		
Oct. 6 Hotel Albion	Snack room, breakfast	1.75
Oct. 7 Albion Hotel	" + lunch	2.25
Breakfast (Mr. Orr) Potomac		.45
RR. to Nova Jc.		1.66
Dinner, Nova Jc.		.50
RR. to Cedar Rapids		2.26
RR. to Iowa City		.65

13.02

W.A. Ph. by Decatur	5.00	
service	4.00	
	9.00	
		50

To Decatur - Oct. 4 - 1917

Left Iowa City at 2:30 pm. +  
Cedar Rapids at 4:50 pm.  
Train is poking along, nearly an  
hour late at Delwin.  
Mr. Winkham travelled as  
far as Independence.  
Reached Decatur at 11:15 pm. +  
Went to the Wimmerlich.

Oct. 5, 1917, Friday

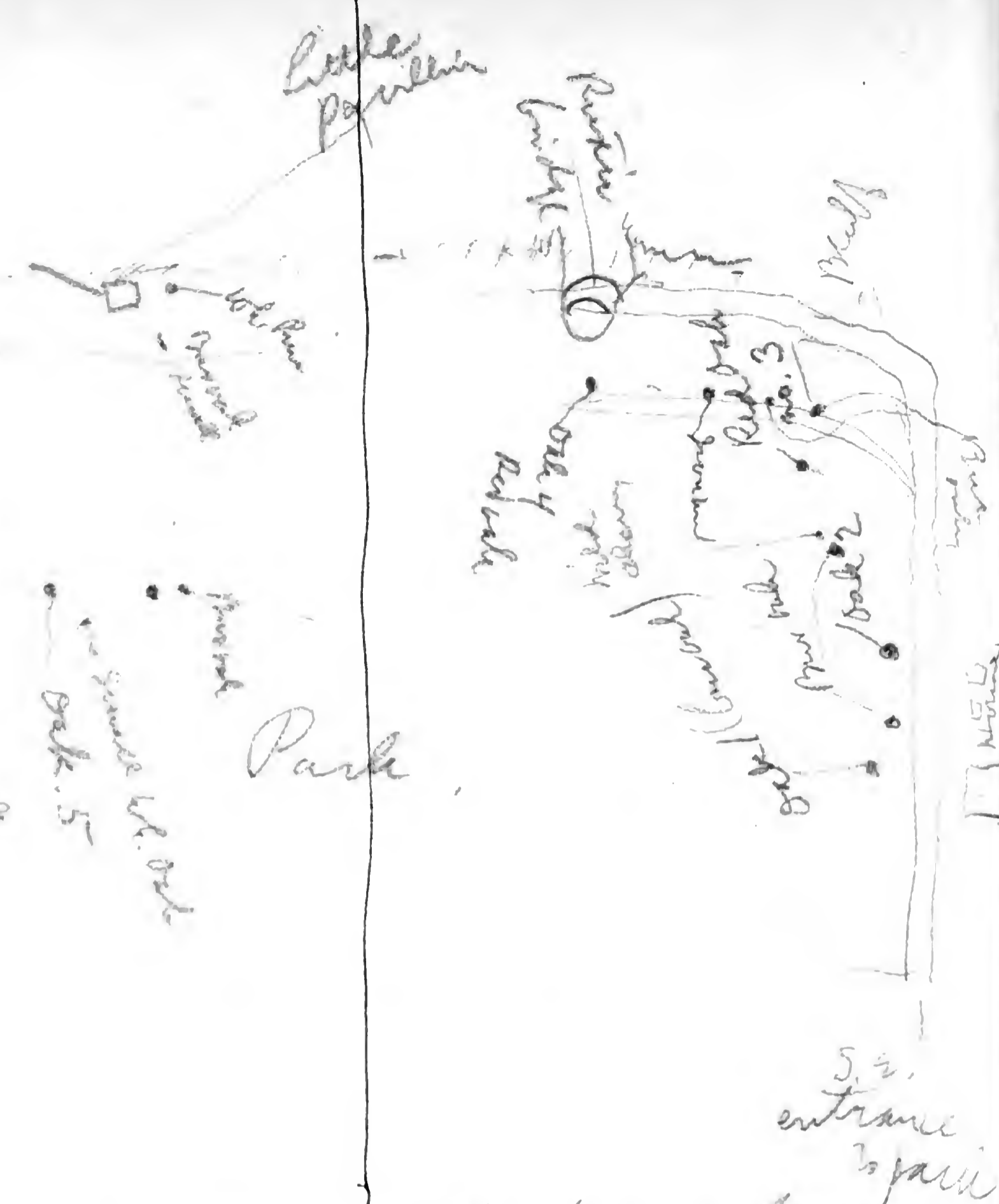
Took walk in park. A beautiful  
natural park on bluffs north, -  
really finest in state.  
At 8:45 am. went to Congregational  
Church, where I met Mrs. Keiserman,  
Mrs. McVicker, + other ladies.

Talked 3.5 min., mostly on  
patriotic duty.

After address went to park +  
worked oaks.

Also noted street + lawn trees  
on morning trip.

11 - Stone walls  
 A  
 Oak 6  
 Oak 5  
 Oak 4  
 Oak 3  
 Oak 2  
 Oak 1



Oak 1 - Pin oak - a little over a foot  
 in diam. Rather smooth (finely  
 reticulated) bark dark gray  
 about 45 ft. high.  
 Ficus growing south.

Oak 2 - (Q. borealis?) Dark bark,  
 not very coarse, with lowest  
 leaves & some 15 ft. up.  
 About 1 ft. in diam.

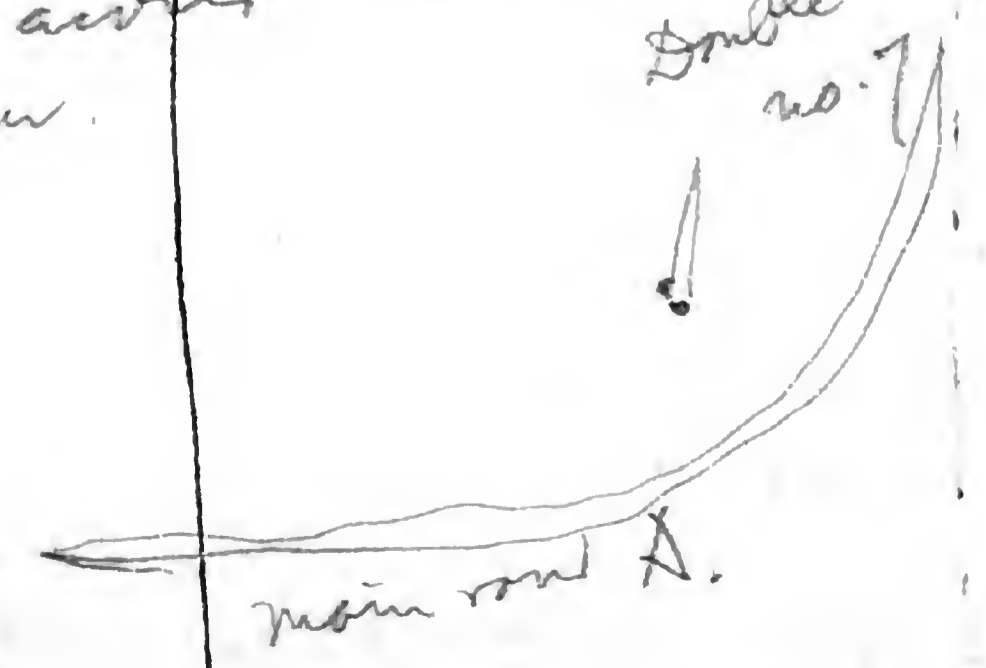
Oak 3 - Red oak - acorns only - leaves  
 high. diam 18 in diam.

Oak 4 - Red oak - coarse bark  
 18 in + in diam.  
 with elec. light fast to it.  
 4<sup>th</sup> tree to left of barn  
 no leaves - too high

Oak 5 - Small acorn - well up on slope  
 near pavilion 10 in. diam  
 coarse bark very licheny  
 on N. side towards Spring  
 leaves brown but only a few

Oak 6 - About 1 ft. diam, not  
 tall - one side -  
 Bark moderately rough & very  
 rubbery bark & large lenticles  
 with plain like surface.  
 no acorn & leaves.

Oak 7 - Pin oak (was this marked 6?)  
 A forked or double low oak -  
 Few acorns - each part about 1 ft - 5. one  
 large. Double low oak  
 no. 7



Left for Deepport at 2<sup>30</sup> PM,  
 our first into afternoon.  
 Oak 8 is mostly up slope, first  
 black oak above road, about  
 Freshet (N. of bridge)

Bare (main) hill top true head, <sup>(high)</sup>

- Eupatorium allium - fl.
- Elymus caninus
- Aster multiflorus v. old fl.
- Spizella breweri fl.
- " canadensis
- " verticillata fl.
- Mimulus mollis
- Rhus glabra - very common
- Verbena hastata
- Asclepias syriaca
- Cirsium discolor fl.
- Desmodium canadense
- Echinacea canadensis (mild mouth)
- Solidago virgata (- few)
- Helianthus scaberrimus var.
- Lepidoptera capitata
- Coleoptera palustris
- Pyraustera flexuosa
- Lepidoptera pinnata
- also - few
- Aster brunnescens
- Asclepias (mamp)
- Ambrosia fruticosa
- Aster novae-angliae
- Achillea millefolium
- Prunella vulgaris

- Veronica fascicularis
- Gnaphalium polycephalum
- Ruebeckia laciniata (few)
- Eriogonum canadense
- Poa trivialis
- Corylus americana
- Chenopodium biennis

Almost at top of hill in SW. cor  
 of fence - are two black oaks -  
 The N. one is Oak 10  
 The S. one is Oak 9  
 Bark is about 10 in in diam,  
 dark & rather rough bark, low  
 & squally crown.  
 Here will expand  
 See across & down

- Amorpha canescens
- Petalostemum purpureum
- Rosa - low (ashham?)
- Verbena bracteata
- Ambrosia artemisiifolia
- Euphorbia corollata

Oak 11 - on bank - N. of road -  
 18 in diam - bark dark,  
 reticulated (medium)  
 Broad, low crown,  
 crown is thin & looks old.  
 Oak 12 - about same size & a  
 little farther East at

same level  
Bright green & fresh  
Q. velutina

Oct 13 Still further E. &  
of about same form & size  
green & fresh.

All these are the larger  
oaks here & are not  
far from fence on bank.



Oct 14 - near fence on W. side  
of road - *Prunus* oak  
16 in diam - low, bushy,  
reddish, green.  
No woods nearby acorns  
plenty

Oct 15 - 20 in diam.  
*Q. borealis* - in road -  
(towards Washington Point)  
Low, brown - bark & rough -  
Foliage still largely green

Other similar trees abound  
along this road - but  
there

Westernmost of 3 trees in  
road near house - S.  
side road.

Low low cut all along.  
Oct 16 Just inside fence on  
S. side of road.

Not rough, reticulate; bushy  
fine leaved, mostly turning -  
another *Q. velutina* tree just W. of it

On N. side of road, both W.  
& E. there are groves of same  
size

Oct 17 *Prunus* oak - S. side  
road & fence (only 1 *Q. borealis*  
between 16 & this) - E. of 16  
1 1/2 ft diam. not very rough  
quite green

Oct 18 Just W. of 17 - *Prunus* oak  
Similar - Note in fence  
Reached Washington after 6 PM. &  
put up at Allamakee Hotel.

Oct. 6, 1917 Sat.

Started at 9 am, with Mr. Orr & his chauffeur, Mr. Sandbeck.

Went N. to cemetery. Collected a few Prairie plants.

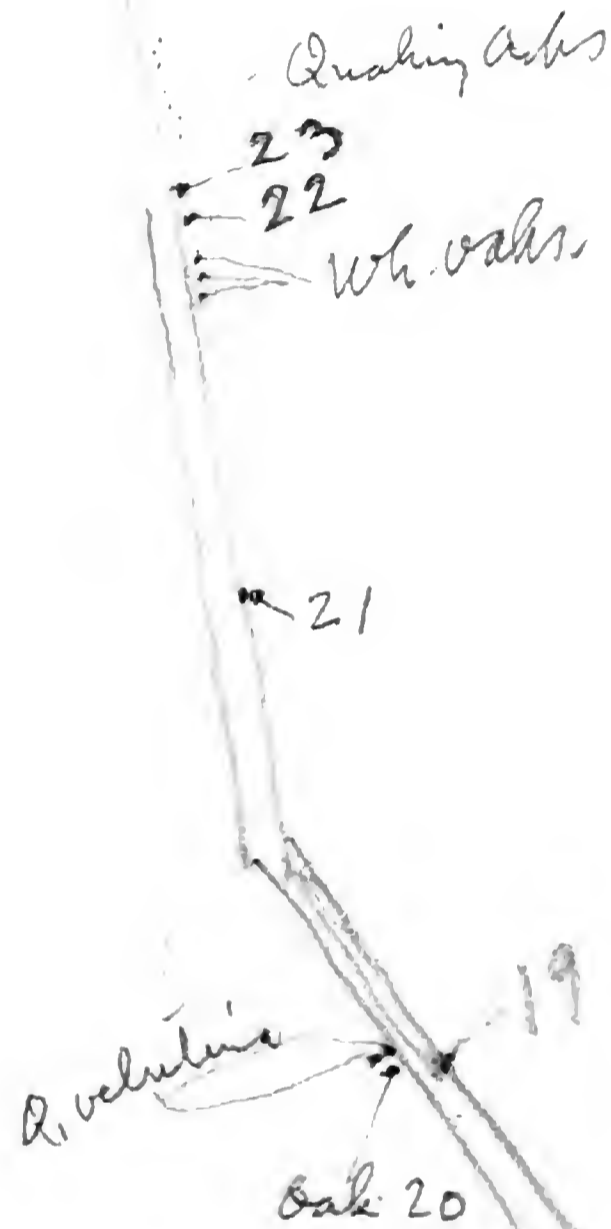
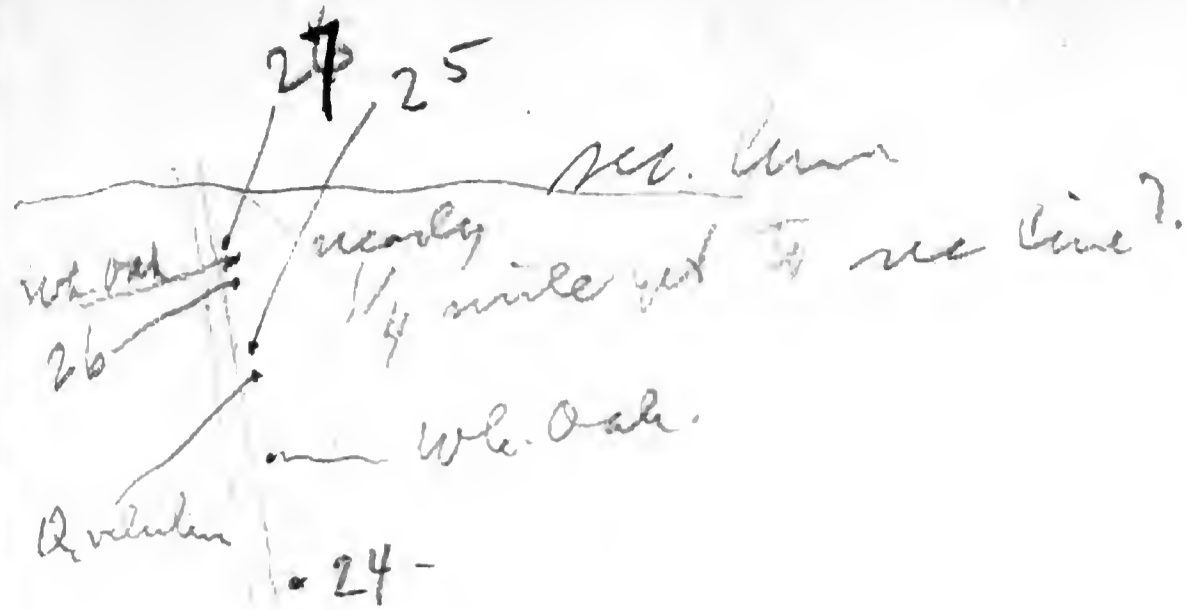
Went towards low hill (big hill) on the Upper Iowa.

Oak 19. White oak at fence on E. side of road, about 15 in. in diam, broad crowned; alone.

Oak 20. Q. velutina opposite (i.e. triple N. of) oak 19, inside of fence. Southernmost of 3 oaks.

Other Q. velutina appear hereabouts. This is the common oak.

Oak 21 - Two Q. velutina (mine is East one), low, broad, each about 10 in. in diam.



Oak 22 - Low bushy Q. velutina - 15 in diam very green

Oak 23 - Scrambling somewhat smaller, 1 ft - also quite green



Oak 24 - Low, scrubby, finer leaved, small, narrow crown. Dark, not very rough. Branching in zigzag, scrubby, no clear swathe of branches, very brittle. About 4 in diam.



July 25 A scrubby *Q. borealis*?  
 About 1 ft in diam, also with numerous  
 scrawny, zigzag branches. - more  
 mature than 24 - branches to grow.

The contrast in branching is well shown  
 here. *Q. velutina* has larger sweeps  
 of branches - than this scrubby one.  
 The *Q. borealis* is just N. of a *Q. velutina*  
 both are in road near fence, *Q.*  
*borealis* near middle between track  
 of road & fence. On E. side of road.

July 26 - looks like hybrid - low  
 are *Q. borealis*, across small  
*Q. velutina* & branching is  
 also more like *Q. velutina*  
 Low, spreading, branches low  
 10 in diam

Numerous  
 immature  
 acorns

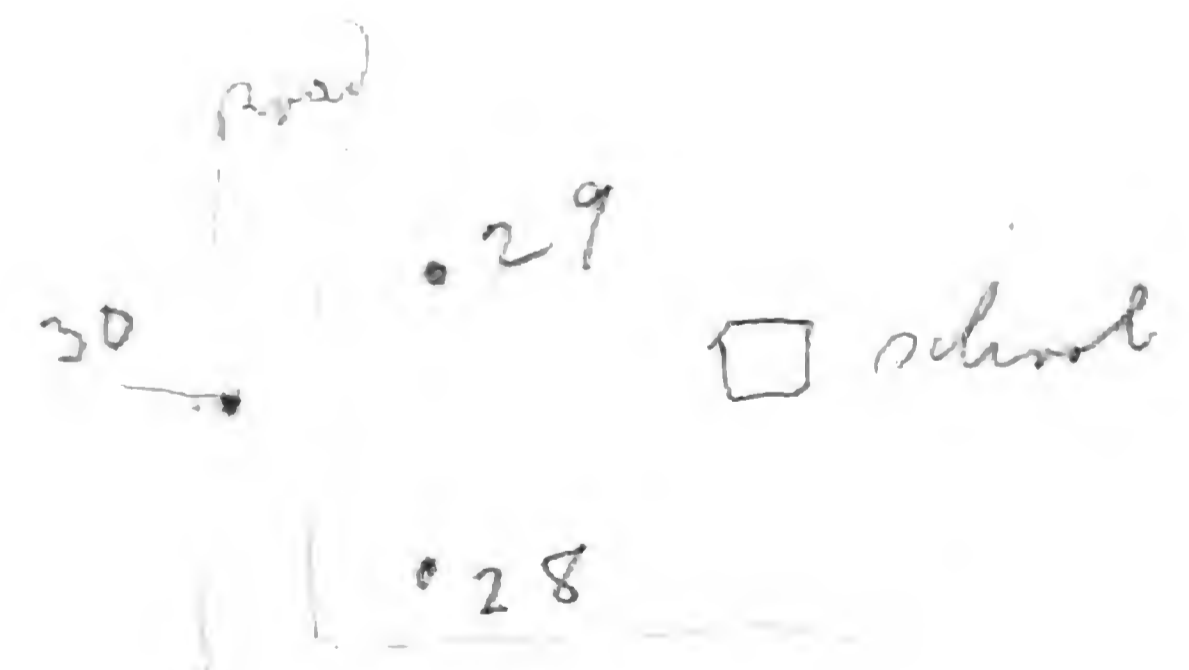
July 27 - *Q. velutina* (white oak  
 between 26 & 27) one noted,  
 12 in diam.  
 Lvs. larger, branching lower  
 & straighter, not so many  
 branchlets.  
 26 is intermediate in this  
 respect between *Q. velutina*  
 & *Q. borealis*

collected lichen on rock (immure)  
 in sec. 33 (at x) - St. Peter I.S

July 28 - More oak in school yard  
 road - 20 in diam - low,  
 rather straggly, brown

July 29 - *Q. borealis* - in school  
 yard - 20+ in. in diam  
 Low, spreading, numerous small  
 zigzag branches. Few acorns

July 30 - on opp. side of road from  
 school. *Q. velutina*  
 18 in. diam, rather low, but  
 almost as many twigs as 29.



On the big hill running down to  
the Crest I collected shells  
in loess about 50 ft above  
valley, - near top of a bend.

Then another out about 10 ft  
lower.

There is a third part, just  
a continuation which is 6 or 7 ft  
lower still.

Loess is yellow & laminated above,  
& with gray streaks.

Below it shows laminations  
& more gray. A very  
few nodules appear.

8 or 10 ft. show in bank, but  
the lower 6 or 7 ft. is

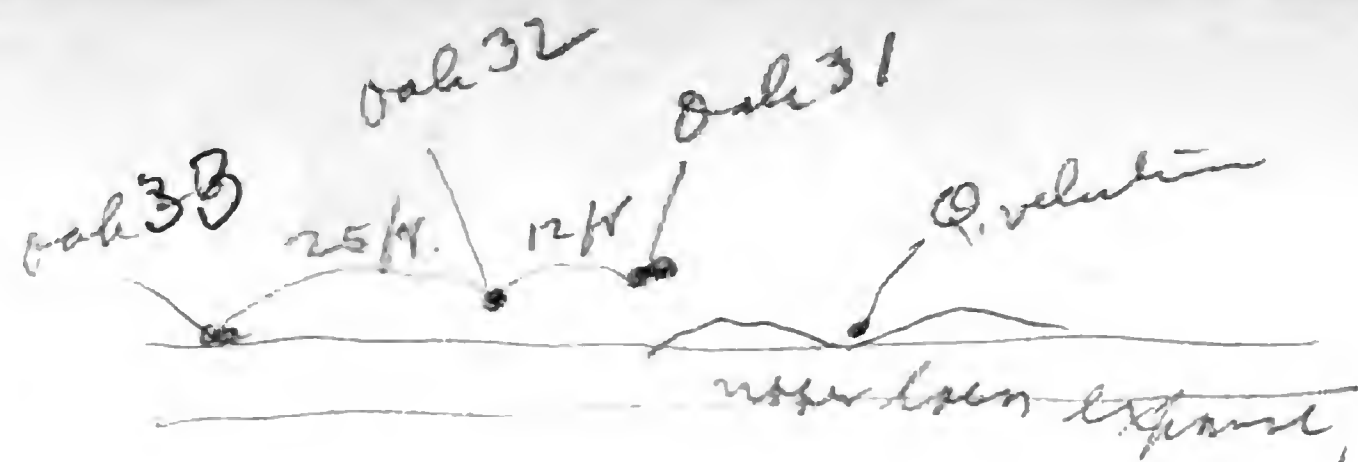
all that shows clearly.

Fossils more all through  
the part clearly exposed.

Oct 31 - Schuchert's Oak?

Double tree back of upper  
part of loess exposure big  
hill, upper part of road

Loess looks like sand but  
lower part 15 in.  
smaller



Oct. 32 - Dism 10 in. -  
New oak. 12 ft. W. of  
oak 31

Oct 33 - 25 ft W. of 32, at  
edge of bank. 1 ft. diam  
across but no loess.

At the foot of the last little slope  
at foot of big hill 100 yds

back of crossroads, there is a  
deep gutter worked out (5 ft)

I collected several shells from  
the loess here, & took sample.

*Bipidaria acuminata*

*Cochlicopa lubrica*

*Polygona* - some

were added.

The loess is yellow & soft.

Nodules in the lower part,  
from gutter to crossroads, are  
numerous & some large.

The shells in bank, <sup>at crossroads</sup> are mostly  
at very base. The bank  
at the crossroad is 5-8 ft  
high



There are a few pebbles scattered  
through upper sandy part  
of the bank at crossroad.  
Probably washed in.  
This part is not true loam. That  
shows at base.



Oak 34 - just inside fence -  
on road E. of High Hill.  
Has very small stunted arms.

In all this region *Q. velutina* +  
*Q. macrocarpa* are chiefly associated  
and in deeper woods *Q. rubra* + *Q. schubertii*

On the other hand *Q. borealis* (?)  
is on the high prairies + formed  
groves + thickets.

Mr. Our remembered much of it  
when young, small + scrubby. It  
was on their farm N.E. of Portville,  
At Charles City some trees, + a  
fine pond and swamp near  
station.

Oct. 7, 1917 Sunday

Started for Wauhan at 7<sup>30</sup>.

Stopped in grove  $1\frac{1}{2}$  mi. N. of  
Portville, at end of straight stretch  
of road, just N. of Laess cut 1.

Collected fungi & slime molds  
on fallen *Populus montidentata*.  
Oak 35 - Is just N. of  $\frac{3}{4}$  mi,  
line N. of Portville, on west side  
of road.

Tree is over 2 ft. in diam, bark  
quite smooth. Tree bushy, branches  
low. 2000 leaves, brown-

Tree stands in road, a few feet  
east of west line.

Mr. Our promised to get information  
from his father concerning early  
grove conditions, and to plat  
his township (etc).

Dr. Smith was run into at 1<sup>st</sup> crossing  
(badly hurt - Head, ribs & arm  
broken.) Train delayed a little.

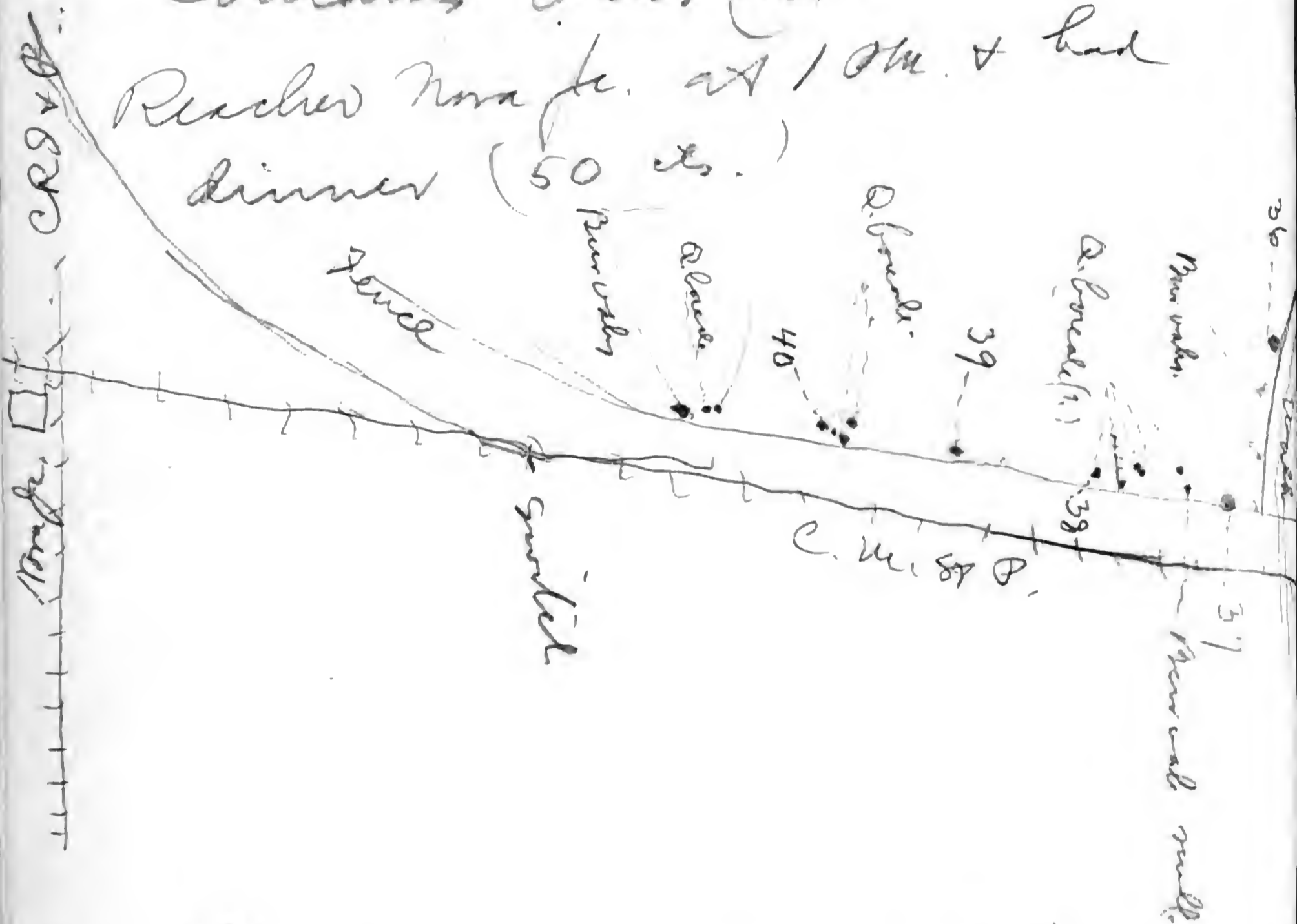
Left at 9<sup>30</sup> Am.

Saw promising grove just before Calmar. Also at

Ed. Atkinson,

also some distance W. of New Hauptly near (E. of) Iowa. There is also a grove just N. of station, across narrow field, at Iowa. Contains Oaks etc.

Reached Nova fe. at 1 PM & had dinner (50 cts.)



There is a group of oaks (mostly rather small & low) between Nova fe. & Nova Springs on low prairie, rising southward. This was probably edge of prairie grove (swamp edge), or near it.

36 - Is a bur oak 18 in diam, stunted, low-crowned, sturdy, brown.

Just inside of fence. Leaves somewhat frosted & drying.

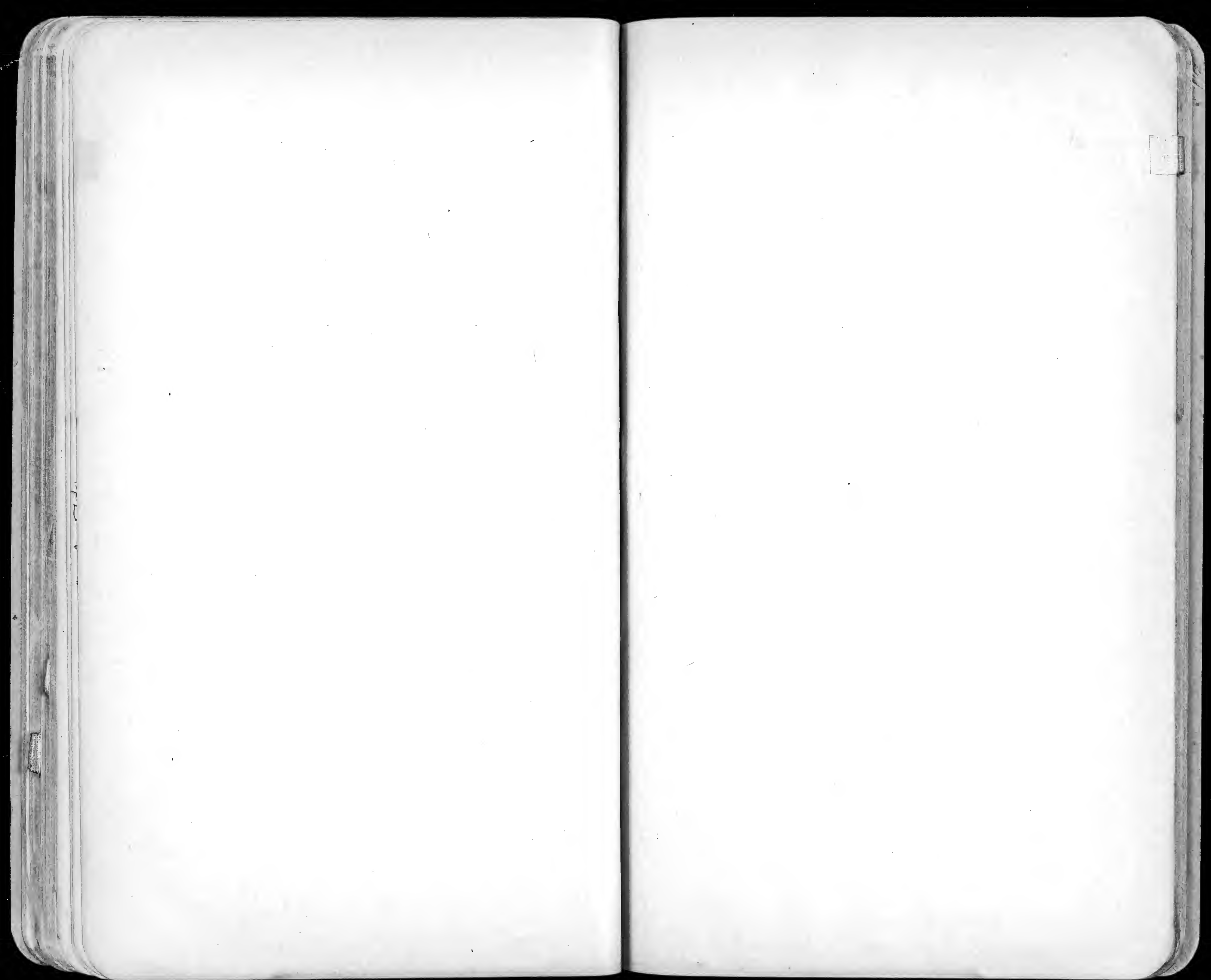
37 - Q. borealis(?) Low, in fence, distorted by wire, about 14 in. in diam.

38 - Q. borealis(?) - with broken top, low, bark not very rough, reticulate 9 in. in diam.

39 - The largest of these Q. borealis(?) Bark dark, moderately reticulate. Inside of fence. Has reddish leaves.

40 - The most prominent member of a group of four (one small) trees grown together at base. This one about a foot (?) in diam. Leaves quite green.

All of these are bushy, low-crowned with branches hanging low, & with thorns quite numerous, zigzag & stiff. are brittle.



In Clarion, Mason City, etc.

Aug 8 - RR, to Cedar Rapids (tax) \$1.86  
 RR, to Clarion (not tax) 3.81  
 Aug 9 Breakfast<sup>30</sup>, Dinner<sup>15</sup>, room & bath  
 Transfer - Clarion  
 RR, Clarion to Mason City (not tax) 1.35  
 Bus - Mason City to Ft. Atkinson (not tax) 2.01  
 RR, Mason City to Ft. Atkinson  
 Aug 11 - Hotel - Lowber - room .75  
 RR, to Mason City, (not tax) 1.67  
 Breakfast<sup>30</sup> Lunch<sup>40</sup> .70  
 RR, to Iowa City (not tax) 5.25  
 Lunch " " .50  
 Total 17.64  
 5

Clarion, Ft. Atkinson, Mason Cy.

Aug 8, Friday, 1919

Left at 9:45 via Interurban.

Reached Clarion at 4:35 pm

(Train 30 min late)

Aug 9 Sat.

Wright Co.

Had breakfast at restaurant.  
 Walked along RR 1/2 E to track  
 of road cutting across RR  
 had some good soil in banks  
 under some rocks up the  
 hillside

- ✓ *Aster multiflorus* var.
- ✓ *Stachys arvensis* fr.
- ✓ *Erigeron annuus* fr.
- ✓ *Chenopodium album* fr.
- ✓ *Urtica dioica* fr.
- ✓ *Sparganium angustifolium* (low)
- ✓ *Sagittaria arifolia* fr.
- ✓ *Scirpus americanus* fr.
- ✓ *Thalassium dasycarpum* fr.
- ✓ *Leptocarpus gangetica* fr.
- ✓ *Sagittaria arifolia* (low)
- ✓ *Polygonum persicaria* fr.
- ✓ " *rigida* fr.
- ✓ " *perfoliatum* fr.
- ✓ " *convolvulus* fr.
- ✓ *Ampelocera Petalium* fr.

- 17-1 Helianthemum scaberrimum fl.
- " " " " " " " " " " " "
- 2 Heliotropium scaberrimum fl.
- 25 V. Valeriana stricta fl.
- 29 P. Pentalanum " " " " " " " " " " " "
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- 30 P. Pentalanum " " " " " " " " " " " "
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- 1 Aster laevis herb.
- 2 Scutellaria parviflora fr.
- 3 Stipa spartea fr.
- 4 Lathyrus pratensis fr.
- 5 Pedicularis anemone fl.
- 6 Phlox pilularis fr.
- 7 Anemone fr.
- 8 Delphinium fr.
- 9 Ranunculus fr.
- 10 P. Pentalanum fr.
- 11 P. Pentalanum fr.
- 12 P. Pentalanum fr.
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- 74 P. Pentalanum fr.
- 75 P. Pentalanum fr.



- 80 ✓ *Sporobolus heterolepis* fr
- ✓ *Zyzaena* fr
- ✓ *Andropogon scoparius* fr
- ✓ *Aster* fr
- ✓ *Asperula verticillata* fl
- (low) ✓ *Lythrum* fr (low)
- ✓ *Cirsium* fr
- 85 ✓ *Muhlenbergia* fl
- ✓ *Panicum* fr
- ✓ *Panicum* fr (low)
- ✓ *Stellaria* fr
- 90 ✓ *Eragrostis* fr
- ✓ *Beckmannia* fr
- ✓ *Physalis* fr
- ✓ *Dianthus* fr
- ✓ *Abutilon* fr
- 95 ✓ *Lythrum* fr
- ✓ *Antennaria* fr
- ✓ *Cirsium* fr
- ✓ *Antennaria* fr
- ✓ *Agrostis alba* fr
- 100 ✓ *Poa compressa* fr
- ✓ *Conyza* fr
- ✓ *Cirsium* fr
- ✓ *Asclepias* fr
- ✓ *Verbena* fr
- 105 ✓ *Cirsium* fr

- 106 ✓ *Asclepias (mistle)* fr
  - ✓ *" tuberosa* fr
  - ✓ *Verbena* fr
  - ✓ *Cirsium* fr
  - 110 ✓ *Aster* fr - low
  - ✓ *Cirsium* fr
  - ✓ *Verbena* fr
  - ✓ *Beckmannia* fr
  - ✓ *Eragrostis* fr
  - ✓ *Verbena* fr
  - ✓ *Protonotaria* fr (low)
  - ✓ *Calamagrostis canadensis* fr (low)
  - ✓ *Phragmites communis* fr low
  - 120 ✓ *" "* fr
  - ✓ *Eragrostis* fr
  - ✓ *Stellaria* fr
  - ✓ *Physalis* fr
  - ✓ *Physalis* fr
  - 125 ✓ *Stellaria* fr
  - ✓ *Ornithoglossum* fr
- Returned at noon, lunched,  
(late 19 min)  
and at 1:42 took C. & W.  
train for Mason City.  
District punctata - by  
along track, saw a *Polynisia*  
in sand ballast, also *Salix longipetala*.  
In the sand and gravel with  
which the road is ballasted  
are many weeds:

Euphorbia — flat

Nitaria viridis

Ammannia helioides

Monarda <sup>gastrophora</sup> ~~viridis~~

Saw several Erigeron annuus  
still in flower, but bad.

Cerro Gordo Co.

At Waledale, on C. & W., there  
is a fine view of the  
Wisconsin plain. Photo this!

Just below reaching Waledale,  
same:

Prunella — in flower!

Lespedeza crotolaria — bad?

There is not much cutting  
along the C. & W.

Final prairie from Burchinal  
to Clear Lake, not cut.

went to Joe's cleaned up,

had supper, and left at

7:45 PM for Calmar IA,

atkinson. No one was here at

atkinson, so went on to

Calmar.

At Calmar went to Miss  
Mary Shema's restaurant,  
and found there Mr. Novak,  
a brother of Prof. B., and Mr.  
Luker, a brother of our Luker,  
who had come for me.

We drove to Protivin, by  
way of Spillville.

Put up at the home of  
E. J. Luker, our student's  
father.

Aug. 10, 1919. Sunday.

Arose after 8, had breakfast,  
latter with Luker, took walk  
about town.

The whole community is  
Bohemian — one German, with  
Bohemian wife, who speaks Bohemian.

They have a nice church, with  
Rev. Rudolph Lakomy, a hall,  
"Beseda", where our meeting was  
held, and a parochial school.

They also have a small public school, like county school, but they had no school last year, for lack of pupils.

Met Mr. John Bouška, the oldest settler, - was here when folks came in 1854.

Mr. Luker gave me the following information:

Proctor has about 300 families of Czechs.

Saratoga has 100? families

Rev. Havlik charge of congregational church  
Thos. Kakač

Lourdes - 50 families

Cresco - 30 families

Dr. Jos. Jindale

Mr. (J. J.) Sobilik) - am. wife

Jan Kakač

Little Turkey - 60 families

Ft. Atkinson - 1/2 Bohemian

Culmar - 1/3 Bohemian

Spillville - 200 families

Rev. Jan Bouška

Prof. Krivick, High School

(Decorah - Martin Soubas)

After the meeting Mr. Sobilik of Cresco, drove Rev. Labovij, Dr. Jindale and myself into country, to Mr. Valenta's nursery,

collected some plants on Winneshiek co side of line.

In woods:

Am. oak

Mountain

Populus tremuloides

Prunus americana

White oak

(Gray oak? - one of edges)

Agrostis scrophulariflora (fl.)

along road:

Lepachys pinnata fl.

Liatris scariosa fl. & l.

Parthenocium integrifolium fl. fr

Ammophla caerulea fr

Cirsium discolor fl

Andropogon furcatus fl

*Leatis pycnostachya* fr. & fl.  
*Petalostemum purpureum*, fr.  
*Baptisia leucantha* - fl.  
*Sorghastrum nutans* fl.  
*Solidago bicolor* fl.  
 " *lucida* fl.  
*Aster multiflorus* bud.  
*Dracopis* ? fl.  
*Heteranthus ciliatus* fl.  
*Desmodium illinoense* fr.  
*Andropogon* *ludovicianus*  
*Panicum* *capillare* fl.  
*Sorghum* *incomplanatum* fl.  
*Helianthus laetiflorus* fl.  
*Aster subulifolius* fr. & fl.  
*Eragrostis pectinacea* fr.  
*Stachys sanguinea* fl.  
*Stachys* *lanceolata* fr.  
*Solidago canadensis* fl.

Returned, had supper at  
 Luke's and young Mrs. & Mrs.  
 (was from Mill Prairie)  
 young Luke & the father drove  
 to Lawler.

Aug. 10, 1919, Sun.

The whole region is gently  
 rolling, - a typical Iowa plain,  
 It looks like fine farming  
 country.

At Little Lakes we passed  
 through Bohemian village, - church,  
 etc. In this section a strip  
 2 miles wide was devastated by  
 a cyclone in May of this year.  
 Buildings were swept away &  
 trees destroyed. Some of the  
 groves were riddled, - burrachs  
 snapped & twisted off, etc.

There is little native flora  
 along the road as the roads  
 are worked almost to edge.

Reached Lawler at 8 & walked  
 along RR to East, across the  
 creek. This is a piece of low  
 prairie, now cut by little side  
 ditches. In drained places the  
 flora is true prairie, but in  
 lower places mingled with low  
 ground plants, such as:

- ✓ *Lycopus virginicus* fl.
- ✓ *Scirpus cyperinus* fr.
- ✓ *Spartina Michauxiana* fl.
- ✓ *Helianthus autumnalis* bud & fl.  
 (*Sorghastrum latifolium* - in fl. - took none)  
*Cicuta maculata* fr.

- ✓ *Scirpus americanus* fl
- ✓ *Aster multiflorus* (see next page)
- ✓ *Colaptes auratus* fr
- ✓ *Phlox maculata* fr

I collected most of these, and also the following prairie plants:

- ✓ *Lepachys bipuncta* fl
- ✓ *Phedusa flaviventris* fl
- ✓ *Helianthus annuus* fl
- ✓ *Fragaria virginiana* fl
- ✓ *Oenothera biennis* fl
- ✓ *Sorghastrum nutans* fl
- ✓ *Andropogon scoparius* fl
- ✓ *Hemlock lupinus* fr
- ✓ *Scrophularia leporella* fr
- ✓ *Desmodium canadense* fr
- ✓ *Aster multiflorus* fl
- ✓ *Cacina* fl
- ✓ *Solidago nemoralis* fl
- ✓ *Helianthus scaberrimus* fl
- ✓ *Glycyrrhiza canadensis* fr
- ✓ *Thalictrum dasycarpum* fr
- ✓ *Eryngium yuccifolium* fr
- ✓ *Lactuca* fr
- ✓ *Liatris pycnostachya* (R. & S. fl)
- ✓ *Carex pedunculata* fr
- ✓ *Onoclea canadensis* fr
- ( *Helianthus grossus* fl (not seen) )
- ✓ *Parthenium integrifolium* fr
- ✓ *Cirsium discolor* fl

- ✓ *Galium boreale* fr
- ✓ *Solidago rigida* fl
- ✓ " *cruciatum* fl
- ✓ " *nemorale* fl
- ( " *canadense* fl, no spec )
- ✓ *Zizia aurea* fr
- ✓ *Panicum capillare* fl
- ( *Panicum capillare* in pot - took none )
- ✓ *Agropyron tenerum* fr
- ✓ *Actinella missouriensis* fr
- ✓ *Alchemilla canadensis* fr
- ✓ *Composita* fr
- ✓ *Hypoxis aurea* fr

Lower ground (according to boy)

- ✓ *Rudbeckia hirta* fl
- ( *Polypogon monspeliensis* fl, not seen )
- ✓ *Lathyrus pratensis* fl
- ✓ *Eupatorium purpureum* fl
- ✓ *Silphium laciniatum* fl
- ✓ *Verbena officinalis* fl
- ✓ *Carex* fr

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- ✓ *Solidago nemoralis* fr
- ✓ *Solidago capillata* fl
- ✓ *Panicum terribile* fr
- ✓ *Cassia tuberosa* fl
- ✓ *Artemisia ludoviciana* fl
- ✓ *Rumex crispus* fr
- ✓ *Euphorbia corollata* fl
- ( " *Preslii* fl, not seen )
- ✓ *Cypripedium acaule* fl
- ✓ *Asclepias syriaca* fl (took none)
- ✓ *Rudbeckia hirta* fr

Aug. 14, 1919 - Monday,  
Arose at 4 am. & went to  
depot. Train was 45 min.  
late. 4:51 + 4:5.

Reached Mason City at 7<sup>15</sup> am.  
Went up town, had breakfast,  
packed plants, & then went  
to Big Slough.

Collected first in the woods.  
There is a striking lack of flowers  
in the woods. Some at Under.  
The prairie openings along the bluffs  
seem to be very dry. I collected  
some plants on the S.W. side  
of the Slough from these  
openings. Also just a few on  
the N.E. side.

Spent most of the time in  
working in the Slough.  
Found scattered flowers, willows  
(come in br.).

Also detected a few shells,  
among them about 30 of my  
small *Pisidium*. Also found a  
few *Pomatopis* *cupiformis* under  
boards near the rocky

spring (now dry) on the S.W. side,  
they were not in water!

Left at 7<sup>40</sup> + 30 PM. in  
Nova Jr. & West Liberty, and  
reached home before 5 am.

Winterset, St. Charles, University

Aug. 13<sup>th</sup>, 1919 - Wed.

Left at 12:15 am, (25 min late) for Des Moines, & Winterset.

Account.

Aug. 13 - Ticket to Winterset	with tax \$ 5.32
Lower berth	1.62
Breakfast at Des Moines	.40
Aug. 14 - Hotel (Arcade) Winterset	
Dinner	.75
Room	1.00
Breakfast	.60
RR, St. Charles to Des Moines	.94
Hotel Hotel	1.75
Aug. 15 - Breakfast - RR, rest, University	.40
RR (Walsh) to Udell	2.86
Dinner - Restaurant - Udell	.25
RR to Winterset	.11
Hotel - use of room Winterset	.25
Taxi - Udell to Centerville	2.50
Aug. 16 - RR Centerville to Iowa City	4.55
Taxi - Iowa City	.50

24.20

\$ 23.30

163 4.12  
150 1.00  
139 1.50  
139 1.50

4.50

Left Des Moines at 6:15 am. It had rained hard at night and things look bright.

Patterson to Winterset

*Veronica noveboracensis* fl. very com.  
*Rudbeckia laciniata* fl. - low place  
*Rhus glabra* lf. fr. very com.  
*Helianthus* - fl. (broad leaves) not tubular  
*Aster sp.* fl. very com.  
*Cassia chamaecrista* fl. " "  
*Oenothera biennis* fl.  
*Sesuvium canadense* fl.  
*Alphium integrifolium* fl. com.  
*Laciniata* lf. fr.  
*Euphorbia corollata* fl. com.  
*Elymus canadensis* fr. very com.  
*Solidago rigida* bud. com.  
*Diaria scariosa* bud.  
*Erigeron canadensis* fl.  
*Solidago canadensis* bud.  
*Cirsium discolor* fl.  
*Moroneja mollis* fl.  
*Lepachys pinnata* fl.  
*Ambrosia trifida* fl. low place  
*Artemisia arbuscula* fl. fr.  
*Hesperis* - fr.  
*Quercus macrocarpa* - small.  
*Lactuca* - tall -  
*Lepidoglosson sp.*  
*Ruellia brittanica* lf.

*Asclepias verticillata* fl  
*Helianthus grosseserratus* sp.  
*Aster multiflorus* var. *Andr.*  
*Lactuca scariola* fr  
*Liatris spicata* fl (lower)  
*Eryngium yuccifolium* fl  
*Verbena hastata* fl  
*Rhus glabra* fr  
*Rapistrum* *emulsum* fl  
*Symphoricarpos* - red - fr  
*Aspyrum* <sup>canadense</sup> *gracilentum* fl  
*Asclepias speciosa* fl  
*Abies balsamea* fl  
*Melilotus alba* fl  
*Rudbeckia hirta* fl

Reached Winterport after 8 am  
 & sent my baggage to the  
 Arcade Hotel (S. G. Dunn, prop.)  
 and called on Senator Ed. Smith,  
 A. G. Gohorn was not in.

Went to hotel and arranged  
 address. Got shave, dressed, &  
 after dinner delivered my  
 address at the Chautauque (at  
 2:20 PM) on "The Czechoslovak

Republic, a Child of America),  
 after the meeting I changed  
 clothes & Sen. Smith, Mr. Gohorn  
 and I were taken to the Backbone  
 by Mr. Knecker (a brother of  
 our F. E.). We looked over  
 the ground, plotted what  
 seems desirable for park  
 purposes (about 320 A.).

There were many Pol. alba  
 & alleri *cuping* about.

I collected plants in the  
 woods, on the prairie top  
 of the Backbone, and also  
 a few along the very base of  
 the slope, on the edge of the  
 bottomland.

(See plants collected.)  
 We returned late and I  
 went to Sen. Smith's house  
 for supper, after which we  
 chatted until after 11 PM.



Mr. Nimmo (of <sup>or Dehalom?</sup> Ottumwa?)  
came in to talk for Deems  
for governor.

Thursday, Aug. 14, 1919

Rev. Allen of the Methodist  
church of St. Charles, came for  
me with a Ford. I had packed.  
When 4 miles out I recalled that  
I had left my shirt, collar,  
tie & cuff buttons at hotel, & we  
returned.

Reached St. Charles a little  
before 12, went to Johnston's  
bank to see H. J. Mueller.  
He drove me about 4 then we  
had dinner at his house.

We then took a little run  
north, into country, returned,  
and I delivered address to  
Old Settlers. Talked nearly hour.

## Synopsis

Pleasure at coming!

Friends

Old & new generations

Experiences & suffering of old settlers,  
Had to earn living

Later first up barrens, etc. &

Early homes.

Worth while, to hold young

Now recreation & play

Cities - 20 years ago - few parks

- later many.

I came to talk state park.

Recreation

Stream conservation

Bird shelter

Native plants.

The Practicum -

Farmers as well as cities  
should have parks.

After address I loafed about.

Hear Congressman Dowell, Mr.

Sick of State Sups Office, &

State Sup. McCracken. Other

minor numbers.

Later Mueller drove out  
into country W. & S. Everywhere

this is a high plateau; cut  
by valleys & ravines - evidently  
a deeply eroded plain.  
There are fine views in almost  
all directions.

Had supper & then went  
N. a mile or less & I collect  
prairie plants & also some  
from woods, etc.

(See specimens)

Went back to Muller's  
house, visited awhile &  
then took C&O. for Des Moines  
at 10 PM.

(Muller has wife, 2 boys and  
a girl.)

Left at 10 PM. for Des Moines.  
arrived at 11<sup>10</sup>. Put up at  
Excelsior Hotel

Friday, Aug. 15, 1919

Left Des Moines via LaSalle  
for Uell at 6<sup>45</sup>, 30 min.  
late

all along RR. Vernonia noveboracensis  
is common. It is very bad, persistent,  
pasture weed.  
Morse Co.  
Lovella to allia

- Vernonia noveboracensis fl - scattered
- Tripsacis danielsii fl - in groups & scattered
- Rudbeckia subtomentosa fl - few
- Cassia chlorocarpa fl very com. in patches
- Plym. canadensis fl " " "
- Santonia - tall scattered all along
- Asclepias verticillata fl very common in patches
- Euphorbia corollata fl less " " "
- Helianthus scaberrimus fl scattered, small
- Coccyzus triflorus fl. few
- Liatris pycnostachya fl. one or two groups
- Sama brevis fl. few
- Desmodium canadense fl & fr. several groups
- Spartina Michxian fl? few groups
- Zizia aurea fl few
- Acta molliflora var. Dist. Patches
- Helianthus grosseserratus fl. much
- Erigeron canadensis fl com
- Asclepias syriaca fl scattered

*Oenothera biennis* fl. scattered  
*Convolvulus virginicus* fl. com. in patches  
*Melilotus alba* - com. - patches  
*Solidago nemoralis* fr. 1 by low  
*Rubus* sp. var. fl. scattered, in bunches  
*Solidago rigida* bud. scattered  
*Aster* - fr. 1-  
*Lactuca scariola* fr. beds.  
*Aster* - greenish - fl. scattered.

These prairie strips are interrupted  
 by patches of weeds, & mixed  
 stuff. Occasionally there seems  
 to be a strip of good clean  
 prairie. I noticed no *Cirsium*  
 until after we passed Albia  
*Cirsium discolor* bud. 1  
*Antennaria ludoviciana* fl. 1 bed.

Albia to Moravia - mostly prairie.

+ *Asclepias verticillata* fl.  
 + *Veronica noveboracensis* fl. very low.  
 + *Lactuca* - tall fr.  
 + *Cassia chamaecrista* fl.  
 + *Aster multiflorus* bud.  
 + *Ambrosia artemisiifolia* fl.

+ *Euphorbia corollata* fl.  
 + *Monarda mollis* fl.  
 + *Oenothera biennis* fl.  
 + *Desmodium canadense* fl.  
 + *Asclepias syriaca* fl.  
 + *Erigeron ramosus* fl. old  
*Helianthus scaberrimus* bud.  
 + *Silphium laciniatum* fl.  
 + *Solidago rigida* bud.  
 + *Sium* ~~virginicum~~ fl.  
 + *Cirsium discolor* fl.  
 + *Glycyrrhiza canadensis* fr.  
 + *Verbena hastata* fl.  
 + *Convolvulus sepium* fl.  
 + *Helianthus grosseserratus* fl.  
 + *Solidago nemoralis* fl.  
 + *Liatris pycnostachya* fl.  
 + *Liatris scariosa* bud.  
 + *Agrostis alba* fr.  
 + *Poa* fr.  
 + *Gaura bicolor* fl.  
 + *Lepachys pinnata* fl.  
 + *Andropogon furcatus* fl. - low  
 + *Achillea* - old  
 + *Aster viridis* var. *laevis* fl.  
 + *Solidago canadensis* bud.  
 + *Silphium integrifolium* fl.  
 + *Melilotus alba* fr. & fl.

(Aug. 15, 1919)

Moravia to Udell - Prairie

Flora made + in preceding, & the following:

- Lactuca scariola* fl
- Cirsium nemorosum* fr
- Potentilla arguta* fr
- Salix humilis* lf
- Aporosa* - green - lf
- Parthenocissus* in by. - fr
- Physalis peruviana* - "dis?" - few
- Lepidoglossis* - lf
- Solidago nemoralis* lf
- Veronica basicaulis* (?) fl.
- Urtica vulpina* lf

Reached Udell about 10 AM.  
 Had stuff hauled over to CRD & depot, packed press of plants & sent it by parcel post. Then called at bank & met Mrs. Taylor. Miss Mary was at home.

Bought ticket for Unionville, checked my suitcase & bag & walked to Unionville.

Along RR everything is cut except under fences, but I

gathered quite a lot of prairie plants.

Turned up road, went past the cemetery. Much of this is now cleared, but I picked up a number of prairie things, (see specimens)

Came, got baggage, went to restaurant (not the old Vermilion Hotel), bathed & dressed.

Went to Duke's for supper, and then to hall. It

rained most of the evening, & few were out, - 15 members and 2 candidates.

I did work & initiated - Taylor (Mary's brother) and Powell, both of Udell.

I also talked: officers; obligation; Cumberland Gap; local.

Drove to Udell (horse) with Taylor & Powell, and from Udell to Centerville by

trape, to make 1:20 AM train,  
Made it safely, went to  
Columbus Jc., West Liberty &  
home.

Melle Plaine & Clinton - 1919

Aug, 16 - RR. to Cedar Rapids \$ .86  
RR. to Melle Plaine 1.12  
RR. Cedar Rapids to W. Liberty 1.12  
" W. Liberty to Iowa City .51

.86  
1.12  
1.12  
    .51  
-----  
\$ 3.63

Belle Plaine & Clinton  
Aug. 16 - 1919 - Saturday

Left Iowa City at 3:10 for  
Cedar Rapids & Belle Plaine.  
Reached Belle Plaine  
after 6 PM, & went to  
Duspin's house, had supper,  
& went to Opera House, where I  
spoke in English & Norwegian  
to a small audience. Spoke  
on educational relief work.

Met Mrs. Moomat & "Monkey"  
(Edwyn) Brown & his young bride.  
collected \$31.00 (\$10.00 from  
C.S.P.S.) & went to  
Eastern Star meeting. Met  
Mrs. Haley, Mr. Hanson, W. P.  
Mrs. ——— W. M., Mrs. Moomat,  
Mrs. Jos. Galesky (German) & others.  
Spoke on ritual & obligation.  
Used Cumberland Gap story.

Went to Martin Penda's  
house & spent night.

Aug. 17, 1919 Sunday

Drove to Clute with  
Mr. + Mrs. Penda & their  
nephew (Penda) of Dubuque,

after 10 am. Reached  
Kubalek's about noon, had  
dinner, visited most of afternoon.

Kubalek took us for a drive  
first N. W. & then S. W.  
from Clute.

N. W. I observed following  
along road, - prairie:

- Potentilla arguta fr.
- Helianthus scaberrimus, fl & bud
- Prunella <sup>palustris</sup> fr
- Euphorbia corollata fl
- Cirsium discolor fl & bud
- Vitis vulpina lf
- Lepachys pinnata fl
- Asclepias syriaca lf
- Oenothera biennis? R & B
- Lactuca - tall - fr.
- Lepidogon capitata fr (?)

- Kuhnia eupatorioides v. angustata fl
- Glycyrrhiza canadensis fr.
- Silphium integrifolium fl
- Erigeron ramosus old fl.
- Pycnanthemum flexuosum fl, fr.
- Rosa pratincola 1 fl. fr.
- Ambrosia trifida fl - low
- ~~ambrosia~~ <sup>artemisiifolia</sup> fl
- Solidago canadensis bud.
- Hordeum jubatum fr
- Helianthus grosseserratus bud. <sup>rather low</sup>
- Andropogon furcatus fl.
- Aster laevis bud
- Solidago graminifolia - fl, & bud
- Verbena hastata fl, mostly low
- Cnicus tuberosus fl, & fr.
- Sium cicutaefolium fl. - low
- Convolvulus sepium fl
- Aster multiflorus bud
- Apocynum <sup>canadense</sup> green. lf
- Artemisia ludoviciana fl
- Achillea millefolium fr
- Lactuca scariola - lobed - fr
- Heterium autumnale fl. low
- Eryngium yuccifolium fr
- Solidago missouriensis fl

*Erigeron canadensis* fl.  
*Polygonum pennsylvanicum* fl.  
*Spartina Michauxiana* fl.  
*Pastinaca sativa* - old fr.  
*Monarda mollis* fr.  
*Urtica dioica* var. *galli* - large -  
*Scirpus atrovirens* fr. <sup>low ground</sup>  
 Prairie 31 35  
 Low ground 7 7  
 Weeds 6 2

S. W. I saw, along road:

*Rudbeckia laciniata* fl. low.  
*Helopsis scabra* fl.  
*Desmodium canadense* fl.  
*Rhus glabra* lf.  
*Corylus americana* lf.  
*Cornus chamaecrista* fl.  
*Salix humilis* lf.  
*Aracium cylindricum* fr.  
*Solidago rigida* bud.  
*Salix longifolia* lf. - low  
*Silphium perfoliatum* - fl. - low  
*Ammophila canescens* fr.  
*Poa compressa* fr.  
*Silphium laciniatum* fl.  
*Prunus pennsylvanica* - lf.

The region N.W. is rather gently rolling, and that to S.W. is a little rougher beyond Fall creek bottom. Returned, had supper at Kubalek's, and spoke in hall to good audience on Czechoslovak relief.

Kubalek drove me to Cedar Rapids, just caught RR 9 P.M. for West Liberty. At W. Liberty from 2 am to 4:08 am. Then to Iowa City

35  
 7  
 2

Unionville, Ia. - Aug. 20, 1919

Left at 2<sup>12</sup> am. (1.52 train) for West Liberty,

Taxi - Iowa City \$ .50

RR. to Unionville 4.15

\$ 4.65

(Then Davenport - 6.25 6.75

Taxi .50

\$ 6.75

Breakfast - Columbus Jc. .40

- .40

\$ 12.10

Left W. Liberty at 5:15 am & waited at Columbus Jc. until 8<sup>20</sup> am,

Reached Unionville

at 11<sup>50</sup> am.

Dr. Case came to meet us also saw Dr. Patterson & Rev. Kragbill.

The region about Floris + Belknap is a great plain cut by ravines, - real Kansan topography.

No trees here! - I think none! Same plain, - Sutherland, Paris, Unionville, Udell.

N. of Unionville, in Soap cr. country, badly broken.

E. + S.E. of Paris there is a broken valley - creek.

Collected *stunifolia* &

*Eleocharis* in pond at picnic ground N. of restaurant.

Also saw a lot of *Boletus* in oak woods. a few other fungi (see spec.)

Falcher & soldiers -

Spring & corn

Lesson

Future - Illinois

Left at 3<sup>45</sup> (3:23<sup>4</sup>) for Davenport & Iowa City -



Just across the river from  
Columbus Jc. is a good  
place. Saw *Helianthus*  
*occidentalis* & other black  
plants.

At Franklin the following were  
noticed:

*Helianthus ~~occidentalis~~ petiolaris* ! fl. fine  
*Euphorbia corollata* fl. very com.  
*Aralis verticillata* fl. pale  
*Koeleria cristata* fl. - tops  
*Solidago nemoralis* com.  
*Verbena stricta* fl. - pastures  
*Artemisia ludoviciana* fl. -  
etc.

To Mr. Gregg -

Aug. 15, 1920 - Sun.

Left in the evening, at 8, for Cedar  
Rapids and stopped at Annapolis.

Aug. 16, 1920 - Mon.

Left Cedar Rapids at 6 A.M. for  
McGregor via the C. W. & St. P. Ry.

McGregor via the "Black Oaks", and  
a good many saw "Black Oaks", and  
a large meadow with an enormous  
number of *Eupatorium purpureum* - one  
found well out from Monticello  
towards Hopkinton.

Another meadow, near Hopkinton,  
has a large number of *Eup. perfoliatum*.

In a "dry pond" near the station (east  
of it) at 74, Atkinson there is a lot

of *Acorns calamagrostis*.  
I reached Calmar at 11<sup>20</sup> AM & left  
at 12:15 PM. Telegraphed to Bennett - come at 2<sup>25</sup> PM.

My ankle hurts!

Reached Mr. Gregg at 2<sup>40</sup> PM.

I was at once taken up on  
hill, met Dr. Clark, etc.

My ankle was pretty sore,  
and I am worried a little

Aug. 17, 1920, Tues

Still limped, and suffered some.  
Spent forenoon about the cottage  
on the Heights, arranging talk, etc.

In the afternoon spoke on the  
"Importance of Wild Life Conservation  
to the Am. Univ. & Colleges."

I followed Dr. N. C. Oberholser of  
Washington.

In the evening instead of the  
community supper program we  
had a teacher picnic supper (Pammel  
& I were guests of Mr. & Mrs. Bell).

At 8 pm. there was a Toast  
program, with talks by Oberholser,  
Kay, Bliggard, Bell, Miss Chapin,  
Bell, & Geddes, who presided.

Aug. 18, 1920 Wed

I spent the forenoon about the  
cottage and at the meeting.

In the afternoon we were taken  
by auto, to Pikes Peak and walked  
down. A large party went, but I  
had to lag behind. About 5 of  
the botanists stuck with me.

I collected plants on the  
prairie, and also on the way  
down the gorge to Pictorial Rock, &  
along RR.

See the pets.

Was quite lame.

I also collected a net in the upland  
woods near Pikes Peak.

In the evening we had a nice  
steamboat ride on the Mississippi.  
I had quite a visit with Dr.  
Oberholser.

Came in after 10 pm & went  
to bed.

Aug. 19, 1920 - Thursday

Arose at 4<sup>30</sup> and arranged plants in grass for shipping.

I then went down to the Zimmerman Hotel and had breakfast.

We started out (3 cars) at about 8<sup>30</sup> for Prairie du Chien via ferry, and then up the Wisconsin river as far as Muscodā.

The current in river is quite rapid, and there are not a few sand bars. It is quite a wide stream. The hills on both sides rise very high.

We went out on river road & this is sandy much of the way.

*Mnemonia punctata* is very common locally in sandy places. Otherwise in open places the flora is mostly that of prairie.

In lower places there are a good many low-ground species. About 12 mi. E. of Wausau there is a fine lot of *Lobelia cardinalis*. Collected that & other plants, (see list)

The bridges across the Wisconsin seem to be toll bridges. We crossed at Muscodā, and had dinner at the hotel. The sand-dunes are right W. of town and on a terrace (?).

The dunes have a good many Jack Pines, & also a variety of plants - many of the prairie type. Among new plants I found *Hudsonia*.

Sand bars are very abundant. A beach with old bones was collected on dunes.

(see plants.)

We returned to Wausau (20 miles from Prairie du Chien) & then took the upland road. I went out with car of Carl Pichel, but on way back changed to Capt. Will's

Pichel's car. In this latter run ~~Martin Clark, Mrs. McCormick of Chicago & J. Clark, Mrs. McCormick of Chicago & J.~~  
In Carl's car, Miss Clark, Mrs. Pichel & Miss McCormick of Chicago.

There is a group of Jack Pines less than 20 mi. from Prairie du Chien at a soldier's grave. Native - *Retynum* & talked in evening on plant-distribution (illustrated)

Aug, 20, 1920 - Friday

~~It rained very heavily at night & everything was soggy.~~

Collected a little material for class. In the forenoon I talked on pollination and seed-dispersal.

In the afternoon I took the group out for fieldwork. Noticed trees on Wehner Heights, & went to prairie opening on high part of ridge, <sup>(N. St. Peter SS.)</sup> along road to the Lookout. This follows base of ridge which looks to southwest, & is here well exposed as there is a deep & quite broad valley to the south.

We discovered this prairie, and I also collected following plants in this prairie opening:

- ✓ Helianthus tuberosus?
- ✓ Sickle-pod. - *Arabis canadensis*
- ✓ *Helipopsis scabra*
- ✓ *Vitis vulpina*
- ✓ *Lithospermum canescens*
- ✓ *Q. muhlenbergii* } at margin
- ✓ *Q. macrocarpa* }
- ✓ *Andropogon scoparius*
- ✓ " *furcatus*
- ✓ *Sorghastrum nutans*
- ✓ *Eupatorium altissimum*?
- ✓ *Solidago nemoralis*

- ✓ *Petalostemum purpureum*
- ✓ *Lepachys pinnata*
- ✓ *Bouteloua curtipendula*
- ✓ *Aster oblongifolius*
- ✓ *Viola* (*papilionacea*?)
- ✓ *Galium boreale*
- ✓ *Euphorbia corollata*
- ✓ *Melilotus alba*
- ✓ *Rosa* -
- ✓ *Agrostis alba* var.
- ✓ *Comandra umbellata*
- ✓ *Allox pilosa*
- ✓ *Gerardia aspera*
- ✓ *Lepedeza capitata*
- ✓ *Pycnanthemum* -
- ✓ *Lactuca canadensis*
- ✓ *Parthenium virginicum*
- ✓ *Desmodium canadense*?
- ✓ *Heimeria ciliatam*
- ✓ *Acletotheca verticillata*
- ✓ " *cyriaca*?
- ✓ *Rhus glabra*
- ✓ *Physalis pubescens* var.
- ✓ *Elymus canadensis*
- ✓ *Liatris scariosa*
- ✓ *Asparagus* -
- ✓ *Eriogonum ramorosum*
- ✓ *Anthroxia artemisifolia*
- ✓ *Veronica virginica*
- ✓ *Apocynum androsaemifolium*

✓ *Hieracium kamalium*.  
*Sisymbrium canescens* - fr. (lost?)  
added Aug. 21

Rained again in afternoon, but we were in. Wanted to go to hills, but couldn't. In the evening - very rainy but some 40 were present.)

I talked on bark & branching of trees, types of trees - oaks, etc. (illust.)

Aug. 21<sup>st</sup> 1920 - Sat.

The very heavy rain left everything soggy, but I went into the woods on the Heights and collected timber plants early.

At 10 we had the general meeting.

I sent out packages of plants. In the afternoon I went out along ridge to Lookout & worked up and down the sides of the ridge and on top.

Found many interesting plants <sup>in woods</sup> among them *Phlegopteris polypodioides*, two different species of *Desmodium* in addition to *D. grandiflorum*.

I also worked in the openings at Lookout, at the point overlooking No. Mc Gregor, and at the opening on the way to Lookout.

The additions to the list of plants at the latter point are given two pages back.

The point overlooking No. Mc Gregor has more *Andropogon furcatus* than anything else, and at the point <sup>above</sup> on way to Lookout *Andropogon scoparium* and *Bouteloua curtipendula* are most common, while *A. furcatus* and *Sorghastrum nutans* are quite abundant.

Blackberries are quite abundant on west slope of ridge, somewhat below top.

I walked down to the hotel and visited with Dr. Oberholser and Mr. Bennett. Later Capt. Willis Bickel took me to No. Mc Gregor and I put up at the Perry Hotel.

Aug. 22, 1920 - Sun.  
Capt Bickel, Miss <sup>Caroline</sup> Mortner and Dr. Oberholser called for me a little before 8 am. & we drove up the yellow river through Canton Twp., Volney, past the old mill to the Balsam Fir grove.

Here we stopped over two hours and I collected a lot of plants, among them *Phacopteris Robertsonii*, a *Rubus* with 5 leaflets (perovskii) *Taxus* in fr., Balsam, White Birch, a fine *Cornus*, <sup>also</sup> *C. alternifolia*, *Quercus struthocarpa*, etc.

Also picked up a few dead shells:  
*Polygyra albolabris*  
" *profunda*  
" *elaura*  
*Pyramidula alternata*  
Also a few fungi

We then drove on towards Deerpark, on upland.

About 2 mi. from the W. line of Allamakee co., as we were ascending the hill, I found a group of

*Melilotus occidentalis*.  
We drove to Decatur, went to  
the fine big Dunning's spring just  
above foot bridge, & went up on top of  
my prairie ridge opposite foot bridge.  
This has been <sup>much</sup> reduced by pasture &  
cultivation, but I found a few plants.  
I walked to bridge, met the party &  
we drove through "cut way" to City  
Park. Then back by way of  
Calmar, Gorman, Castalia, Postville,  
Luana, Monona, Froelich, Giard (old, not  
on RR). We stopped at Niels' quite  
a while and then drove to McGeary,  
& Capt. Michael took me to No. McGeary.  
I arranged a little material &  
then went to bed.

A beautiful day! Clear, cool,  
& a good time all around!

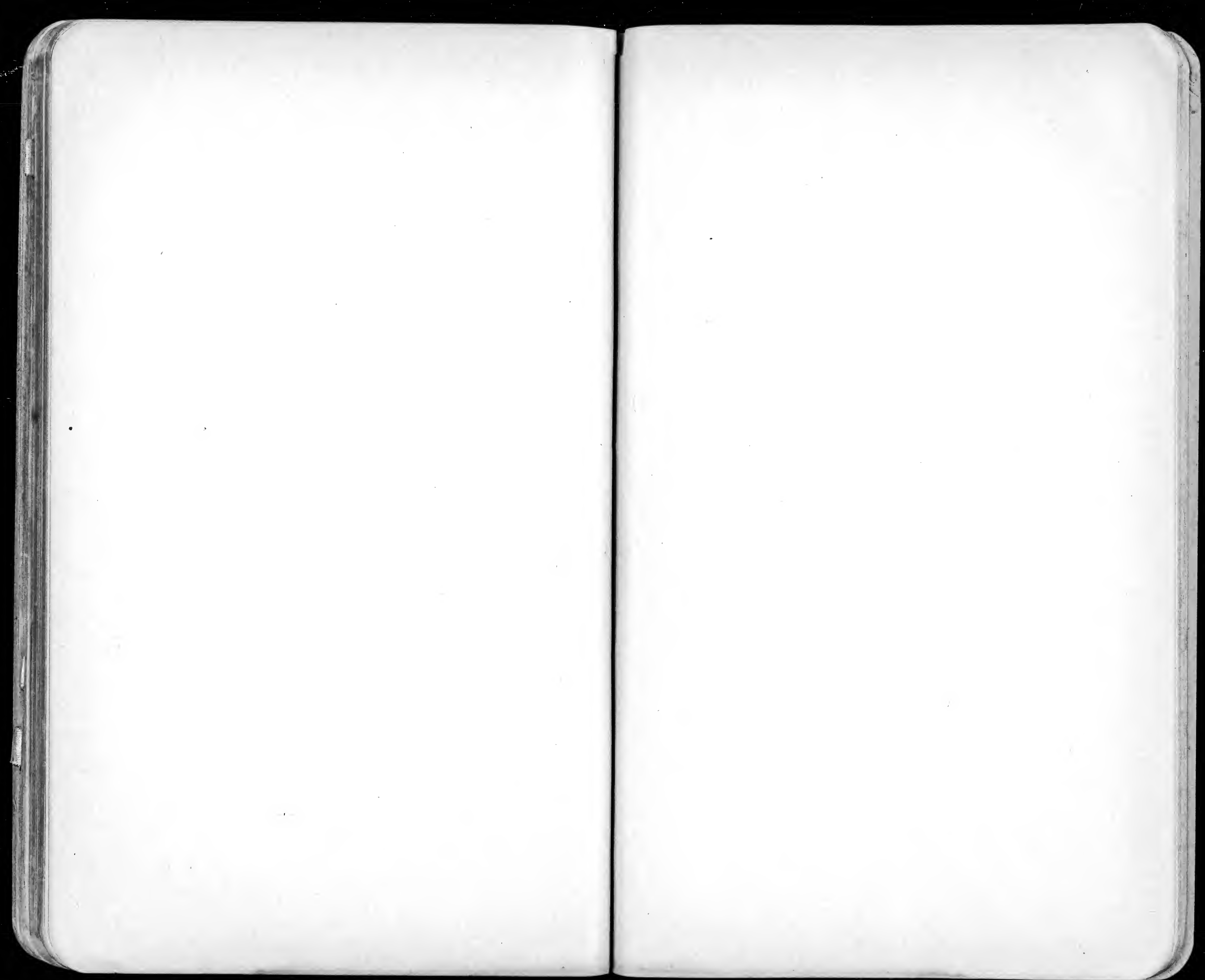
Aug. 23, 1920 - Mon.

The morning was very foggy  
after a cold night.

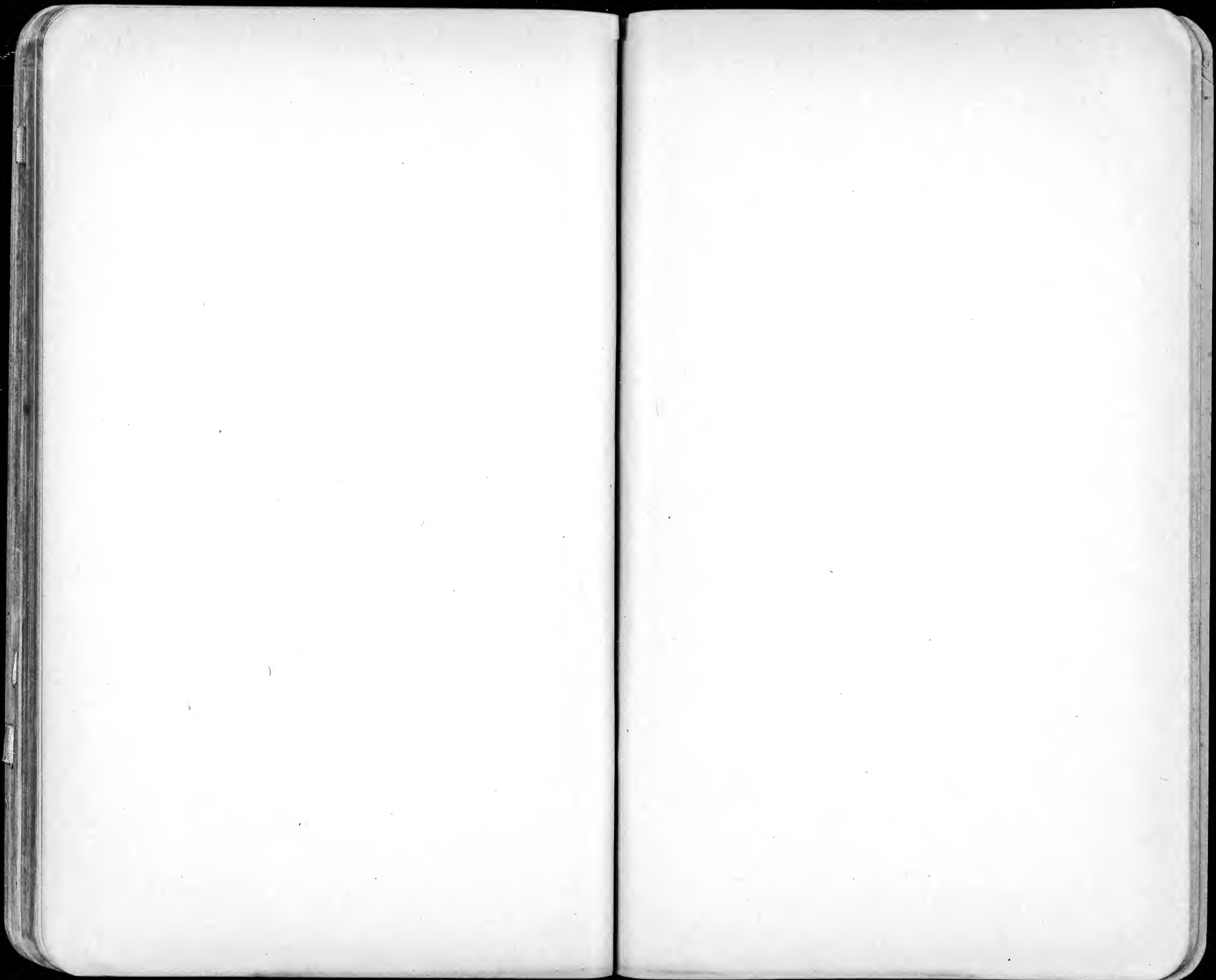
I arranged fungi, etc., also  
plants, and went north on  
ridge.

Aug. 24, 1920

Left for Cedar Rapids & home







# Trees and Sod!

## Trees

To most people a tree is a tree.

1. Must know kinds -

Trim quite high  
Streets

In front of large buildings

residences.

Am. Elm.  
Moderate high

Hard Maple

Green ash

Basswood

Low, bushy

To hide fences, etc.

For back ground

Under wires

Crab

Plum

June berry

Red bud

Hawthorn

2. Must know habits, - N. & S. of state

Black Birch

White Oak

Hard Maple.

3. Uses - ornamental

Flowers - kind

Plum, June berry

Red bud

Crab + Hawthorn

Black Locust

Foliage - fresh

fruit - fall

Fruit nuts, fleshy fr. etc. Edible  
showy - Hawthorn

4. Use native trees

Eu. Larch

Norway Spruce

+1

+2

5. Transplant small trees

See climate - not New York or England

Roots & top - cut away -

spring or fall?

Trim crown -

6. Care -

Trimming - decay -

Water

Mulch

+2

## Purposes

+2

Streets

+2

Parks

Cemeteries

+1

Public buildings

+1

Residences

+2

Wind breaks

9 plants

Highways

Pleasant Hill  
 Kudler Gas  
 Kahlert, F.  
 Macke, F. E.  
 Malin, F. V.

Timberlots

Marquette  
 E. Tesar

McGregor, Ia - (1920)

Logan Blizgard

Fred G. Bell  
 Karl D. Bickel  
 W. F. Bickel  
 W. N. C. Elwell  
 M. J. Geske

To Mc Gregor

Aug. 15, 1920 - ~~Telegram to McGregor~~ - \$ 1.35  
 To Cedar Rapids .86  
 Aug. 16, - RR. to Mc Gregor 5.45  
 Dinner at Calmar <sup>Telegram</sup> .50  
 Aug. 17 - Breakfast <sup>65</sup> .65  
 Aug. 18 - ~~Breakfast~~ <sup>65</sup> .65  
 Aug. 19 - Breakfast (Hotel Zim.) .50  
 Parcels-post - - - - - .50  
 Dinner - Hotel at Muscodā - - .75  
 Aug. 20 - Breakfast .65 - - - - - .65

\$ .35	.60
.86	.65
5.45	.50
<hr/> 6.66	.65
6.31	<hr/> 2.40
12.97	.65
<hr/> 3.05	<hr/> 3.05
\$ 16.02	

Aug. 21 - Supper - no. McGregor .75  
 Aug. 22 - Breakfast <sup>60</sup>, Supper <sup>60</sup> 1.20  
 Candy for kids 1.00  
 Supper - - - - -  
 Aug. 23 - Breakfast & Lunch .45  
 Supper - - - - - .25  
 Room - 3 days 3.75  
 Aug. 24 - RR. to Cedar Rapids 5.41

Il-lus'trate

In-quir-y (in-kwiri by speakers)

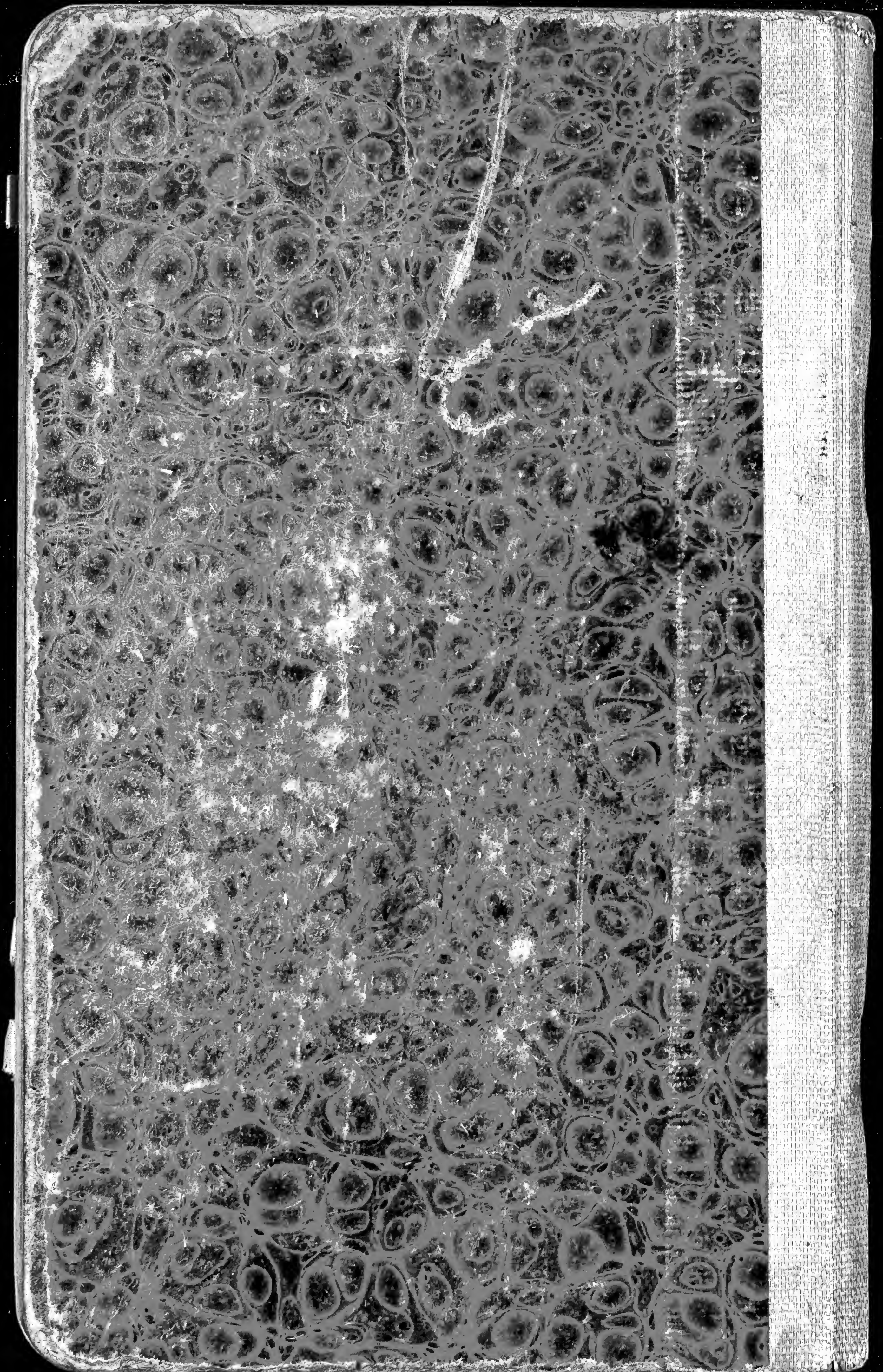
Maintain { māntan  
                  { men-tan!

Je'sa-min

12 mi. E. of Warren

To Chas. Veto. from  
Marathon.

Jacobinia - v. east

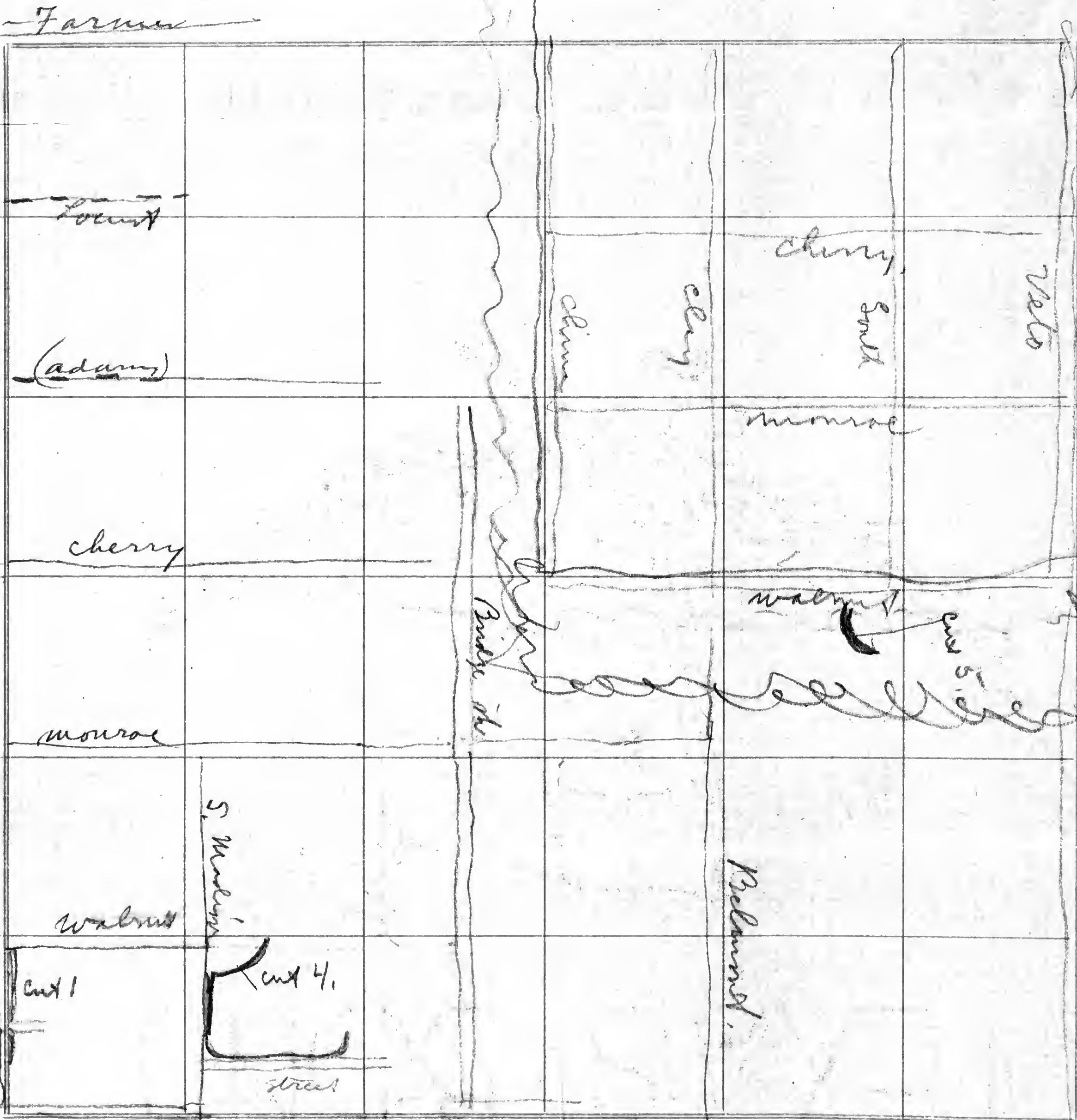


# PLAT

SHOWING LOCATION OF PROPERTY IN QUESTION.

*Wichita*

SECTION \_\_\_\_\_ TOWNSHIP \_\_\_\_\_ RANGE \_\_\_\_\_



Washington  
mulberry  
pear  
leaves.

Fossilif. exposures  
cut 4 - top to bottom  
" 5 -

PLAT

SHOWING LOCATION OF PROPERTY IN QUESTION

SECTION

TOWNSHIP

RANGE



*Hel. tutanum*  
*Sickle-pod*  
*Helipium rubrum*  
*Urtica vesperina*  
*Lithospermum*  
*D. Muhlenbergii*  
*Andropogon scoparius*  
 " *fruentis*  
*Serpentaria vulgata*  
*Eupatorium album*  
*Solidago nemoralis*  
*Petalostemum purpureum*  
*Leptochloa pumila*  
*Psittaculorum carolinense*  
*Aster oblongifolius?*  
*Viola (pub.?)*  
*D. maculosa*  
*Galium trichophyllum*  
*Euphorbia corollata*  
*Melilotus alba*  
*Rosa* —  
*Agrimonia eupatoria?*  
*Comandra umbellata*  
*Phlox pilosa*  
*Geranium album*  
*Leptochloa capillaris*  
*Pyrenanthus* —  
*Ruellia carolinensis*  
*Panicum virgatum*

*Desmodium canadense?*  
*Stemona tuberosa?*  
*Asclepias verticillata*  
 " *synandra?*  
*Rhus glabra*  
*Physalis pubescens*  
*Elymus canadensis*  
 37 *Helianthus scaberrimus*  
*Sisyrinchium* —  
*Erigeron annuus*  
*Ambrosia artemisiifolia*  
*Veronica virginica*  
*Ascyrum andromedifolium*  
*Hieracium* —  
*Equisetum canadense*  
 (f. *clavatum*)

*Coccoloba palustris*  
*Amaranthus canadensis*  
*Asclepias tuberosa*