

Massachusetts
Cape Cod notes
these (mostly notes
of the other birds)
Saw two woodpeckers
Saw 1st
of 6/7 Green Heron
on my way to school
They tried to follow
Saw a couple of
little birds with
yellow heads
pale backs (like)
outer tail white
They were in a
on my way

Found many
the most
Cape Cod

May 6

Saw two blue
winged teal on river,
saw many *S. aestiva*
along the river.

The frequented marsh
the same place as
they do. I frequently
saw Cowbird and
Ornitholagus + *Corvus*
saw a few tail
Bats in ~~marsh~~

Coralville region
saw a *Mniotilta*
in north Coralville
region. Saw
several *D. baltimora*
+ sparrows, the
sparrows were
found chiefly

Notes on objects
observed by me
1879.

Nov. 31st

A cold cloudy day.

Saw a Centurus carolin
flying about rather
restlessly in a grove of
tall young oaks, on
the outskirts of a timber.
I uttered its harsh
note occasionally.

Perched crosswise sometimes.

Dec 2nd

A cool, windy, cloudy
day. A number of snow-
birds were flying about
on North Capitol str.
Some ventured on to the

vines hanging before
a window. Others were
in trees. They were
continually uttering their
note (A weak & feeble
"chuckadee" or rather
"clir-er-up.")

A couple of Blue Jays were
hopping about in the
trees below University,
evidently searching for
food in the bark. They
are silent.

This morning a male
Perisoreus pubescens was
hopping about on a lilac
bush, picking food from
the bark. It was near
the ground and did

not seem to mind my
presence. It was silent.

Dec. 3rd
"

A quiet, cloudy, rather
warm day. Saw a
number of Blue Jays
in the 3rd Ward school
yard in the tall trees.
They were silent. Others
later in the day, in
the U. campus were noisy.

Dec. 6th

A muddy, cool, cloudy
day. Saw a small
scattered flock of Snow-
birds. They kept up
their usual notes.
Once however which I
noticed on the fence,

uttered a sound like
that made by placing
the tongue against the
roof of the mouth & the
teeth, & suddenly with-
drawing it. (A sort of
a scraack.) It uttered
this continuously and
unintentionally.

Dec. 7th
" "

Cloudy rather cold,
but quite. Saw a
Blue Jay diligently
searching the bark of
a tree in Kolubar's.
It was silent. Others
later in the day were
also silent.
Saw a Shrike on the

top of a solitary tree
in Sullivan's field,
When I shot at it (on
the fly) it dodged
downward.

Dec. 19th

A sleety, quiet, cloudy
day. This morning I
saw a female *Picus puber-*
cus diligently searching
the bark on our
currant-bushes. It
did not seem to notice
a number of chickens
feeding near it.

It was silent.

Dec. 20th

Shot a *Centurus carolinus*
on big cotton-wood
near slaughter-house

It was among a
number of *P. pubescens*
+ *P. villosus*.

I observed a pair of
P. pubescens that seemed
to be making love.

The female sat quiet-
ly, while the male
hopped around her
with dobbing (bobbing)
wings + puffed feathers.

Dec. 26th

Saw a flock of female
purple finches back
of Terrell's. They were
silently perched on the
tops of trees + when
I shot they merely
flew to the nearest
tree.

They resembled Cedar
birds in their manner
of perching. (Stiff & silent)
Dec. 3rd

Shot a female
Little Black Head
in an air hole in
ice below Coralville,
(see description).

Very expert diver.

Jan. 2nd

Was out with George
Langenberg. A beautiful
spring like morning.
Crows & Jays very
abundant and noisy.
Titmice likewise.
Heard the note of a
Robin in slough.

near Lowell, there
can be doubt of it
I saw a flock of
Cedar birds perched
on a limb in a row.
Killed 5 at one shot.
Others two flew to a
neighboring tree,
I killed one in the
others sat quietly till
I reloaded. They had
berries in their gullets
& stomachs.

Jan. 3rd

A rainy day. A
number of jays
appeared near the
house this morning.

for independent

Jan, 4th
saw a flock of Purple
Finches with males.
They kept over near
the ground in a
pile of brush in a
slough (back of
Scrapline)

Between Jan 4th
and Feb. 22, I kept
no notes. But I shot
two Quails, (my first)
a number of Flying
squirrels, Fox & Gray
Squirrels (my first)
a number of rabbits &
a Long-eared Owl, (my
first). During that

time, Crows become
very plenty. They
were scarce late in
fall & early in winter.
And Quails became common.

Feb 22nd

Was a beautiful
warm day. I saw
a Cuckoo in
Vogel's timber. It
acted like a Red-head
(R.P.) & also uttered
the loud note which
this does in the spring
on its arrival, &
like wise answered.
Crows & Jays very
numerous & very
noisy. X X X

Notes on Quail &c.
found
in
1880.

February.

During the 3rd and 4th weeks of Feb.
it was very warm and pleasant, &
a great many Skylarks appeared.
They kept themselves in meadows and
plowed fields. Blue-birds also appeared
in great numbers & preoccupied the tops
of trees as usual on their arrival, and
continually uttered their musical though
monotonous note. Geese also
appeared, & ducks, geese, & chickens
flew in great numbers. Purple
Finches were numerous both ♂ & ♀, while
Goldfinches were scarcely to be seen.

See 4th March

5. Saw a small flock of *A. cedrorum*.

6 - " " " " " *A. garrulus* near
the University.

- through the air like a miniature snow-storm. Some attempted to sail, but they would go but a short distance without flapping their wings. Snowed a little in the forenoon.
10. A cloudy, cold day. Snowed a little in the afternoon. Heard a number of *Oreophila alpestris* near Centennial bridge. Saw *Sialia* + Cedar-birds. Found several *Ancyclus rivularis*.
11. Saw *A. garrulus* ¹ *id.* *id.* *id.*
Obtained about 30 *Ancyclus*, and 3 mud-puppies.
13. Snowed considerably.
14. A cold, bright day. River above dam was covered with ice about 1 inch thick. Saw *Sialias* seemingly as cheerful as in warm weather. Saw an immense number of *Spizella monticola* above Corralville on both sides of the river in the willows and hedges. They were very noisy. A number of Titmice were with them. Saw a Cooper's Hawk + a Red-tailed Buzzard.

Saw many Little Black-head Ducks.
Shot 2 in the holes in ice below Coalville.
Also saw two Ducks (like Widgeons?)
with long pointed wings flying near
the ice along ^{over} the river. They lit
on the ice.

Heard a byrnum wh. whistle and
also "hoot".

15 - At first bright but got cloudy
windy and cold. Found my
first Dupas. Saw many
Fuligulas and also Red Heads.

16 - Saw Red Heads, a Barred Owl,
Red tailed Buzzard and other birds.

17 - A bright, pleasant day. Sialias sang.
Saw Red Heads & Fuligulas.

Shot the Barred Owl mentioned above.
I had wounded it the day before.
It was wounded & falling to the ground
it assumed a defensive (& offensive
(to me)) position. It partly spread its
wings & turned them at R L's to the axis
of the body, putting them forward as
for a shield, & viciously snapped

There was just above small cliff
W. of Country Club

- its bill. (My first Tyrannus) In the evening (after dark) I shot a Scops owl, (my first) It was flying noiselessly along the water's edge below lime-hills, occasionally perching in a grape-vine.
- 18 - Snowed in the forenoon but thawed in the afternoon.
- 19 - A bright, pleasant day. Sialias very numerous. I heard Sittas uttering their rapid spring notes - twi, twi, twi, twi, twi. Saw Tyrannus near Coralville.
- 20 - A bright cold morning. Saw a ♂ Robin & several Sialia
- 21 - Saw a flock of *T. garrulus*. Their note was louder & more shrill than that of *cedrorum* - chir-r-r-r-r &c. Saw a large flock of Molothrus fly high over Coralville toward the northeast. Saw a great number of crows circling over the timber below Coralville.
- 22 - A beautiful bright day. Saw Robins, Sialias, Snow-birds &c.

I saw two Meadow Larks in
Robinson's vineyard. They perched
on the fence, & on grape-poles & uttered
their usual note. I think I heard
it before today.

23 - A bright, beautiful day.

Heard Robins. Saw many ducks
(Fuligulas). Shot one with bill entirely
blue except a black tooth. I saw
two hawk^s (perhaps Cooper's).

Saw frogs. While I was rowing in the
middle of the stream below Coralville
a large frog came to the surface
for a moment and then disappeared.

Saw a Ceryle alcyon flying
about below Coralville dam.

I saw a Loon by Lime-hill. It
could dive a great distance.

Darkness prevented me from getting it.

Saw a Tyrannus at dusk.

" " Scops fly across the river
after dusk below Lime-hill.

I saw a snake by ^(above Smith's dam) ~~Southern~~ see-house
uttering a note much like that of

S. monticola but stronger. Imitation.
Saw Turtle & Musk Rats.

24- A very windy day.

Saw several hawks circling about.
Saw 4 Killdeer Plover; shot 2.

They uttered a plaintive kwā-ā.

Saw a great many ducks, Fuligula
& Mallards mostly.

One duck made a terrible roar in
descending to the river from over the
hills by "Rock Bluff." (^{exists but find}
_{diff. here Coralville}
on E. side)

Saw two Ceryles. Shot one.

25- Rainy. Stayed at home.

26. A cloudy, windy unpleasant day,
was more pleasant in morning.

Saw many Ducks. Shot 2 fibers.
Shot a Sayornis below Coralville.

Heard others. Saw several flocks
of Motothrus. Saw wild geese and
a Serp. Saw three Zenaidura
fly over old time hills.

Saw Zonotrichia and Passerella.

27. A rainy, windy ugly day.

Pr-r-r-r-r-r-r-r-r-r-r-r-r-r-r

28 - A nice, bright day. Will. was home.

29 - A " " " " " "

Saw many ducks. Saw a Flicker
below Coralville it was shy & silent.
Saw an Upland Plover (or Esquimaux Curlew)
on "gravel island" below Coralville.
Saw a Podilymbus with some geese
below Coralville. The geese pecked at it.
Found live Succinea ovalis, Linnæus, &
N. moundou. Frogs were noisy.

30 - Saw Quiscalus in S. H. I. campus.

Perhaps I saw some 2 or 3 days before.

31 - A rainy, ugly day. Heard Sialia
utter their note on the wing.

Saw ducks & 4 Killdeers fly south-east.

The Killdeers utter notes on the wing.

Heard a Meadow Lark in park by
Pioha's (now school room)

April.

1 - A windy, partly cloudy day.

Saw several Peewees.

Saw several Flickers. Killed one.

Saw a T. sparverius fly over

timber by Coralville. It occasionally
sailed a short distance.

Found living *S. obliqua*, *N. alternata*,
N. multilincta &c. Saw a Winter Wren

Saw a pair of Fox Squirrels copulating
on ground back of Terrell's. I got ♂.

2 - Saw a Ruby-crowned Kinglet.

Saw a ♂ Carpodacus on the ground
near Ogilvie beer-cellar. (in ravine N. of
main city)

Saw many Juncos. Day pleasant.

3 - Took a swim with Preston.

Found living *N. hirsuta* & other
shells.

4 - Was in swimming, found many shells.

5 - A beautiful day. Obtained a
Coot below old lime kiln.

Saw a pair of Purple Martins by
S. U. I.

6 - A cold, windy day. Saw *F. sparverius*.

Also an Osprey over the old lime kiln.

Saw Buffle-head ducks. Shot a

Sphyrapicus varius by Coralville

Saw Centurus. Titmice & Tree-

sparrows scarce - Juncos plenty.

Robins plenty, in flocks.

Saw a flock of Goldfinches with their summer plumage.

Saw a Pintail Duck fly over Coralville.

7 - Saw Buffle-heads. Pleasant day.

8 - Bright & pleasant.

9 - Saw a Robin beginning to build a nest. It gathered grass & straw from the mud by the pump in S.H.S. campus and carried it to a tree in campus.

Blue-birds had also commenced operations. Saw Juncos.

Found live *N. clausa* under logs, below Coralville. A warm day.

10 - Cloudy, cool, & very windy.

11 - Sunday. Juncos. Saw Killdeers.

Found *Trillium nivale* & *Thalictrum*.

Found a Red-tailed Hawk's nest in the top of a tall (bas-wood) tree in the timber by Coralville. It was in a fork, next to the trunk, & was composed of rods and large sticks not very symmetrically arranged, and the shallow cavity was lined with a

material resembling owl cob-webs, & with a little dry grass & feathers. It contains 3 ova. One was distinctly blotched, another less so & the third was clouded. (See specimens)
The embryos were large.

When I approached the tree the hawk flew to a tree near by & silently watched my movements. I saw both parents after I had taken the ova, circling over the timber (silently). Day was bright & cool.

12 - Heard many Syrnium in the evening. Also a pair of Scops (?). They uttered a harsh note like a hoarse laugh.

13 - Saw a Brown Creeper in timber back of Temple's. (near SW corner of present city park)
Found a Coopers Hawk's nest about $\frac{1}{2}$ finished, near the Coopers Hawk's nest of last year back of Temple's. Saw both birds. They undoubtedly used the material of the other nest of last year. Saw a Syrnium. It did not seem to be troubled by the sunlight. Found Rabbit hairs

In the place from which it flew.
Found a Crow's nest just finished
in a tall tree above the spring near
"Rocky road" (at Black's spring)

Found another near preceding.
It was on the west side of the ravine
near the foot of the hill, in an
upright branch of a leaning bass-
wood tree. It was made of coarse
sticks principally & of course strips
of bark on these, the whole lined thickly
with pieces of paper (some leased out the
whole), some being over 15 in. long.
She flew silently from her nest
& joined others at a distance, when
she began to caw. When I left
the whole flock came up & kept up
a racket for a good while.

Saw Cotyles near Ferry.

" Juncos. Saw many Dragon
fliers along the edges of ditches &
ponds. Saw Turtle Doves.
Also Flickers love making,

140 Found a (nearly finished) Accipiter

Cooper's nest near the top of a tall tree in Johnson's ^{on a limb} ~~limb~~. I did not see the bird when I found the nest.

Found a Buteo's nest on a great white oak near the bottom of a ravine below the Crescent. ^(Lindus's garden) It was in a fork probably 70 ft. high.

The bird remained on the nest until I came to the foot of the tree when she silently flew away to a tree nearby.

Saw two Colaptes making love to a female. They hopped about her with tails spread and wings trailing. There was a Centurus on the same limb.

Saw a pair of Centurus below Crescent. Saw a Syrnium in same place. It was on a large hickory (on a small limb next to the trunk). It was not tinned.

Heard 2 or 3 W. C. Nuthatches.

Saw a few Titmice, singly or in pairs.
Saw many Juncos, 1 or 2. *S. monticola*
(hiding in weeds) a few *Zonotrichia*
Passerella, and a ~~Robin~~ Thrush in
the under brush near Rapid Creek.
It kept itself near the ground

15. I visited the Buteo's nest found
yesterday. It was in the fork formed by
three branches, near the top of a great white oak,
and was loosely constructed of sticks, and
the shallow cavity was lined with
a few corn-husks and a little down,
but principally with bits of dried leaves
loosely thrown into the cavity, in
which the eggs were partially buried.
The ♀ flew from the nest at my approach,
& remained silent until I got about
 $\frac{1}{2}$ way up the tree, when she began to
circle over the top of the tree, ever and
anon uttering a scream ka-a-a-i.
After I descended the bird perched silently
on a tree near by.

The nest contained three eggs, which

did not vary much. They were of the blotched variety.

There was a *P. p. l. senn* in the same tree. There were several *H. Ph.* and *h. hatches* near by among them a *Sphyrapicus*.

16. A cloudy day, was not out. Saw Flickers Crow *B. G. v.* in town.

17. Saw many Flickers + Robins, a few Pewees, + *l. l. l.*, Blue Jays, Fox Sparrows, *g. m. t. l. l. l.*, *g. m. s.*, + a few *Monticola*.

The *Monticola*s kept themselves near the water's edge, on or near the ground in brush or tall weeds. I saw a great many

Cotyle riparia. Saw a *Minotilta* on Willow Island. Heard an *Aegialitis* after sundown.

Shot a ♀ Big Scaup Duck below Willow Isl.

Saw a few other ducks. Heard a pair of *Syrnium* in the timber by Coralville.

Found a *Colaptes* roosting in a hollow stump after dark in the "clearing".

Heard an *Ammodramus*. Saw a Ruby-crowned Kinglet on Willow Island.

18. Saw *P. villosus* in "eddy": Saw many *Cotyles* and a *Corvus*.
Saw a ♂ *Pipilo* in a brush-heap near the old-lime-kiln. Also a *Zonotrichia*.
Saw a pair of *Circus* (?) over the old lime kiln. Saw a *F. sparverius*.
It lit on a tall tree & uttered a harsh cry. It flew with quick flappings & short sails.
Shot an *H. rufus* near Cave Spring. (Irides are yellow). In same place I saw a ♂ + ♀ *Pipilo*. One uttered a note. A *Sayornis* was beginning to build under a shed at the wood-side boat-house.
Saw a large flock of *S. melanoleucus*.
" " " " " " Buffle-heads.
Saw *Zonotrichias*, *Cyanurus*, a pair of *Parus* and some *Juncos* on Willow Island.
Heard *Cyanurus* at the Woodside; they uttered a peculiar note (pe-u or cai-a) which was quite musical.
A very rainy day.
Found an unfinished *N. cooperi* nest in *Sciurus* region.
Pilsbry found one in the same region.

which had been abandoned. (It was only partly finished).

Found a Corvus structure in Sciurus region, ^(at quarry N. of Cornville) It contained 4 young just hatched, and a very dark ovum (vide collection). The young had a little gray down on them, but were mostly naked. The nest was in a white oak about 18 ft. high + near the trunk. It was made of sticks + moss, and was lined with strips of bark principally, some horse-hairs and a few leaves. The Nisus structure mentioned above was made of sticks of which many had green buds.

Saw a ♂ Ardea virescens on the little island above the woodside. Silent. Found the nest of a Gray Squirrel in Sciurus region. It was in a white oak. The young were probably $1\frac{1}{2}$ or 2 weeks old. There were 4. Shot a ♀ Bonasa. It was not nearly as timid as at other times of the year.

I saw a ♂ *Pipilo* perched in a tree,
and with wings drooping and
tail depressed uttering its note.

19. Geo. Poal died in Chapel.

A cold, very windy day.
Became quiet and warmer in the
evening.

Shot a *Den. coronata* in the "eddy"
Saw others along the river. They
kept near the ground in willows
and brush.

Shot an *Eremophila alpestris* in
Smiley's. It was on the ground.
Shot an *Ortyx* near the lime kiln.
Saw several *Ortyx*, usually 2 or 3
together. They did not fly with a
loud whirr. I observed the same
Bombellus. Saw a large flock
of *Buffle Heads* and some
Querquedula discors.

Saw *Parus*, *Robins*, *Sialias*, *S. monticola*,
Zonotrichia, *H. rufus*, *Cyanurus*,
Corvus, &c. Saw a *Gallinago* ♀

by stump pond. Saw a *Buteo borealis*,
Shot a *Spermophilus 13-lineatus* on the
open flat below the Woodside boathouse.
Saw many *Lepus* in Smiley's grove,
evidently engaged in propagating
their race. Saw several *S. melanoleucus*
near Coralville. One uttered a chick or
(click). Saw an *Aegialitis*.

Saw *T. solitarius* + probably *Tringoides*,
Heard *Syrnium*, Saw one hooting.
When alarmed it uttered a loud whoo - a

20. Saw *Zonotrichias*, *S. socialis*, Titmice,
a *Sitta carol.*, a *P. pubescens*, many *Colaptes*,
some *Zenaidura*, James, *Querqued. discors*,
Buffe-heads, *T. melanoleucus*, Goldfinches.

I shot 2 *S. melanoleucus*. One had a
Minnow in his throat, saw *Tringoides*
Shot an *Aegialitis*. Shot a *Sphyrapicus*
varius, above the "clearing", (The 1st living one
that I ever saw to know it).

Saw a *Galuscoptes carol.* near the Star Blm
Saw a Gray Squirrel, several *Fiber*, & heard
2 or 3 *Syrnium* hoot.

Saw *Ceryles*, many *Barns* + *Bank Swallows*
& some *Progne subis*, all by the river.

Saw an *Agelaius*. I had probably seen them 2 weeks before.

Heard *Ortyx* whistling Bob-white.

21. Saw a Goldfinch (in summer plumage).
Quails uttered a oo-whit (as in winter).
Saw a *Quiscalus* with building material in his bill.

22. Was out for flowers with E. Robinson.
Saw none but common birds.

23. An ugly, rainy day.
Was out in the evening getting snails above "eddy" with G. K. Reeder.

24. A cold, cloudy day.
Saw many *D. coronata* along the river, on the ground, in bushes and in trees.
Barn- & Bank Swallows were very numerous.
Found a Sayornis's structure on the cliff near slaughter house.

Saw *Zonotrichia*.

Saw a *Ceryle* which seemed to much distressed on account of lack of food as the water was very dirty.
He chattered angrily and allowed me to approach very near.

25. Saw I. coronata in the
guides. Found a Sayornis structure
in the lime-kiln. It contained 5 ova,
one very much spotted. Embryos were far
advanced. Saw *Colaptes*, *Merus cooperi*,
Corvus, many *Buffle heads*.

Found a Gray Squirrel nest in the top of
a tall slender white oak. It contained 4 young,
perhaps 2 weeks old. Saw *Ortyx* (a flick)
Found an unfinished Sayornis structure
on the cliff above *Sciurus* region. In the
same place I found a dead & partly
decayed *Pandion carolinensis*.

Found an unfinished Sayornis structure
on the cliff between Butler's and the
Crescent.

The Sayornis structure under the shed by
Crescent (vide) had three fresh ova
in. Immaculate. Took one.

Pilsbry found a Sayornis structure in
E. Clark's lime-kiln. Heard a Litta card.
A Sayornis structure on the cliff above
Crescent had two fresh immaculate
ova in. Saw *Sciurus* but? on the
rocks below Crescent.

Pileby found *Limnaea reflexa* in Catfish ponds. Shot a ♂ *Oryz. Hira* was a pair of them, and they allowed me to approach very near.

Saw 2 ♂ *Oryz sponsa* in upper Catfish pond. Found a *Sciropterus* nest in a hole in a large tree on the other side of Rapid creek.

Saw a *Falco spar.* fly from a lot of weeds by Rapid creek.

Shot a *D. palmarum* (my 1st) in the woods by Rapid creek. He acted somewhat like *Regulus*, but was not so active. Saw others.

Shot a *Sphyx. varius* in Pites region.

26. Saw *Eremophilas* in town.

Was out before school getting towers.

Saw *Colaptes* & *Centurus* in Coralville region.

Saw a *Poliopstila caerulea* searching for food among the nut-tops. He was very active and occasionally uttered a note resembling "mjā".

Saw 3 *T. melanoleucus*.

Was out with S. A. Ogle in the afternoon getting Crayfish.

Saw *D. coronata*, *S. socialis*, *Zonotrichia*,
Found *Viola pubescens*.

27. Found a *S. talia* structure in an
old stump in the north line hills
region. It contained 5 ova.

Shot a *T. melanoleucus*, a *Polioptila*. Saw
Polioptila, *D. coronata* & *Zonotrichia*.

28. A windy, cloudy day.

Heard a great many Jays in town.
Got wet!! Caught several *Cypripidae*.

Saw a large flock of *Quiscalus* feeding
on the ground (some perching on bushes)

by the Coral dam. W. W. Wilson shot a
Totanus semipalmatus.

Saw *Molothrus*, *D. coronata*, *Sagittaria*
vociferus and *T. melanoleucus*. Also

Zonotrichia, several pairs of *Parus*, *D. palm-*
arum, a ♂ *G. trichas* among the last, *Poliopt-*

tila and many *Sayornis*, a pair of
Pentec. borealis above Coralville region &

several *Corvus*. Hall 25.

29. A cold, disagreeable day. Went out.

30. Saw a *Myiostilla varia* in the
timber near Lemplins. It acted
very much like a *Sitta*, and was

very unsuspecting.

I visited the *Accipiter* stone, back of
Templins (vide Apr. 13), with C. W. Helmer.
It contained one slightly hatched ovum,
which was deposited on the sticks, there
being no lining.

The ♀ did not leave the nest until
I rapped the tree.

Saw several *Melanerpes* in Campus.

Saw many *Chaeturas* above the mill.

They flew very high.

Saw a *Chordeiles*.

Found a *Sialia* structure in a
rotten fence post near Engler's bar-cellar.
It contained 2 young + 2 ova.

Saw several *Cyanurus*, all in pairs.

Saw *N. rufus*, *Pipilo*, *Zonotrichia*, & *Parus*.

I visited the *Mimus cooperi* structure
in Johnson's timber (vide Apr. 14).

The ♀ did not leave until I rapped
the tree. (In all the House nests I
have found nothing was visible,
of the avis but the banded
tail). Two ova were deposited on

the sticks there being no living.
Saw *D. coronata* acting like flycatcher.
Saw a pair of *Parus*. One was on a
little bush; the other flew to it and
received something from its bill which it
proceeded to devour.

MAY.

1. A beautiful day; was not out.
Saw several Robins fighting a *Quiscalus*
in S. Clark's. Also a pair of Robins fighting
a pair of *Cyanurus*.
Heard a *Seiurus aurocap.* near Ginn's kiln.
2. A beautiful day. Was out all day.
Seiurus auro. were very plenty, and the
woods resounded with their notes.
They were found in dark woods and
chiefly in trees. Shot one (♂ or ♀).
Shot a *Podilymbus* below the mill.
Quercus *medula discors* were plenty by
Rapid creek. Shot 2, - ♂ + ♀.
Shot a *Fulica amer.* in Catfish pond.
Saw several ♂ *Hedymeles*, and perhaps
some females. Saw several flocks of
Agelaius and *Quiscalus*.

Saw *D. coronata*, *D. palmarum*, &c.
Saw several *Tyrannus Carolinensis*
Saw *Lingoides*, *Totanus solitarius* and
melanoleucus, *Ardea virescens*, &c.
Pilsbry found a *Buteo* stone. in the
top of a tall tree near "Pink Meccasin
River", ^{at the bottom, 7/11 miles away} It contained one ovum which
was but little spotted.

Found *Viola pedata* & *Castilleja coccinea*

Saw *Centurus* & other *Picidae*

Shot an *Oryz* from a large flock
by Catfish camp.

Saw a *Pandion* fly over Rapid creek

Saw *T. mustelinus*, Saw a ♂ *Hedy-
melus* dart out after an insect
like a Flye. Saw a *Sitta*, *Parus*,
Buteo, *Corvus* &c.

3. Saw several ♂ *Icterus baltimore*
in town. Was not out. (N. Bloom)

4. Saw ♂ *I. ball.* in campus.

Saw a pair of *Progne subis* drive
a pair of *Sialias* from a box in
strub yard. Saw a ♂ *Hedymelus*
chasing a ♀.

Saw a ♂ *Pyrranga rubra*.

" " ♂ *S. ruticilla*

" " ♂ *Centurus carolinus*

Heard several *Galeoscoptes* utter their familiar note (all that I saw here to fore were silent). Saw *Seiurus lud.*
Saw several *Ardea virescens* in trees near Sedivec's. They frequently utter a cry.

Saw 2 *Protonotaria citreata* in the willows above Crescent.

Found *Camptosoms*, *Osmunda*, *Pteris* &c. near Cat fish bend. (1st bend N. of ^{Brookline} ~~Brookline~~)

Saw *T. mustelinus*.

Found a *Sialia* stone in a stump above Crescent (where there were eggs last year). It contained 5 ova. Saw *Holoptilus*, also a *Miniotitta*; I saw the latter creeping head-downward.

5. Saw *Quiscalus* ♂ + ♀ (many), also *Ic. spurium* in town. They were very active.

Saw several *Seiurus* along the river.

6. Saw 2 *Queq. discors* on the river.

Saw many *D. aestiva*. They frequently

much the same places as they do
later when breeding.
Saw a *Buteo* sp. in South Coalville region
Saw a *Micropodops* in north
Saw several *D. oparius* along the river
among the willows and water-birches.
Saw a ♂ *Trochilus* in Pupa region;
it was at a honey-suckle.
Saw *Zonotrichia*, *Sp. socialis*, + c
Heard *Poliophtila* near Coalville.
Saw 2 ♂ *Cyanospiza* in Smiley's.
Saw an unknown sp. in "eddy".
It was in a tree and had a very
spirited look. It bobbed its tail and
had the feathers (crest?) of the head
elevated. The fore part of the head
all around was black (or dark-ash)
and otherwise was colored brown
and gray like our plain *Tringillidae*.
Saw *P. ruticilla*, also 1 ♀.
Found the following flowers
Thalictrum anemoneoides, *Lilium cucullatum*,
Lilium rivale, *Anemone nemorosa*.

Hepatica, *Sanguinaria canadensis*,
Dicentra cucullaria, *Erythronium albidum*,
Podophyllum peltatum, and a
species of Mustard

7. The Sayornis' store, between Butters
& the Crescent (vide Apr. 25), had
5 perfectly fresh ova in it. One only
was slightly spotted.

Saw *Pyraugas*, *S. socialis*, *Chordeiles*,
D. aestiva, *Vireos*, *Chrysomitris*, *Poliophtila* &c.

8. The Nisus c. in Johnson's timber
(vide Apr. 14 & 30) had 4 ova in it.
The nest was about 40 ft high, built
in a crotch next to the trunk and was
built of thin sticks & twigs from 8' to 15'
long. The cavity was about 8'-9' wide
and 2½' deep and had no lining
but a few bits of bark in the bottom.
The ♀ flew silently away. The ♂ kept
circling about the tree uttering a harsh
rapid note something like that
uttered by a *Colaptes* on its arrival,
but harsher. I shot the ♀.
One of the ova was somewhat
spotted.

9. Saw Eus. americana.

Found several new or rare species of shells.

Pilsbry found a little *S. pusillus* structure a few inches from the ground with 3 ova in it, by the side of a road north of the Muddy-face creek.

Killed 2 large water snakes.

The 2 Cooperi and 1 Corvus structure in Sciurus region ^{had been} were torn down, the eggs broken, and the young Corvus killed.

The two Sayornis structure on the cliff above Sciurus region (vide Apr 25) contained 5 fresh ova a piece; one had all immaculate and in the other there was 1 spotted.

Pilsbry found an *H. rufus* structure in a hawthorn a few feet from the ground near Muddy-face, with 4 fresh ova in it. Found a Sayornis struc. in the cache by Catfish Bend. It contained 4 ova, only one of which was fresh.

One was spotted.

The *Buteo* structure found by Pilsbry had no more ova in and had evidently been abandoned.

Found a *P. pubescens* hole partly finished in a tall tree near the Crescent. About 30 ft high. A *P. villosus* had driven the birds from the hole and their cries attracted my attention to it.

10. Found a *Sayornis* struc. built against ^{clay} a bank, under a piece of overhanging sod, below the Observatory. It had 5 ova with small embryos; only 1 was immaculate.

Near the same place I found a *Cotyle's* hole. The "nest" was made of culms of grasses, hay, + bits of stems of some vine (bean?). No ova yet.

The *Trisus Cooperi* struc. back of Lemp's (see) had 4 ova in; 2 were spotted. The nest was built of sticks of white oak, and had a few pieces of the bark of same inside. No other lining.

The birds acted same as those noted under (May 8.). While in the tree I saw a ♂ *Trisus fuscus* fly over not far from me.

One of the *Corvus* structures in Cowen region was abandoned + a Squirrel took possession.

Saw a *T. melanoleucus*.

Found a *S. socialis* structure in a bush near Fletcher's ice-house. It contained one. When I visited it again a few days after, the ovum was gone & nest was abandoned.

Found an *H. rufus* structure on the ground in the low bottom by Black's cornfield. The ova had a "patch" of dots at larger end. It was at the foot of a willow tree, & was made of sticks and lined with tendrils of grape-vine.

It contained 5 ova beside 2 molochus. The latter were fresh.

Near this a pair of *U. gilvus* had a nest about $\frac{3}{4}$ finished. It was on a small maple about 10 ft. high.

Saw a ♂ *Trochilus* near the pond by Corvus region. Farther down the ravine I saw a ♀ *S. ruticilla* with building material in her bill. She showed great uneasiness, and did not go to the nest, but flew about in an excited manner.

I saw a pair of the same in Black's engaged

in an interesting operation.

11 Saw several *Mniotiltas*.

12 Found a *S. socialis* structure with one
ovum in, on a little bush beside the path leading
down the hill from Stebbins'. (Westside of hill).
I saw nothing of the bird.

Found a *Sayornis* struc., just finished,
in the quarry near "high bank".

Saw a *V. gilvus*⁹ building a nest at the end
of one of the lowest limbs of a large white-
oak, above the Crescent. It was about $\frac{1}{2}$ finished.
The bird was at work when I discovered it (4 P.M.)

Saw several pairs of Cat birds,

Shot a ♂ *Protonotaria citrea* above the
Crescent. During the past week I saw 4 or 5
♂ in that region. They frequented the willows
along the creek and bayous, although I saw
one in the heavy timber to the right.

I visited Pilebury's *S. pusilla* beyond the
Muddy Face. It contained 4 ova.

This and the following were exactly similar.

About 100 yds. farther down the hill
I found a *S. pusilla* structure with
3 ova of the *S. pusilla* and one *Molothrus*.

It was built a few inches from the ground supported partly by a ^{hazel} bush and partly by the grass around it, on a small patch of low hazel-bush.

The bird flew to a small tree near-by and occasionally uttered a "chick"
Saw several *H. horreorum* skimming over the plowed fields at dusk, near Muddy-face, saw Indigo-birds.

13. Was down the river. Saw many *H. horreorum*. Saw several *Euspiza americana* in the fields. They uttered their common note.

Saw a *Troglodytes aedon* building a structure in Kemley's paper-box. The box was placed on a gate-post; ~~the~~ gate was much used, but this did not seem to disturb the birds.

14. Found an *H. rufus* nest in a hawthorn tree back of Fletcher's. The bird allowed me to come within 2 ft. of it, and when driven off, it remained near the nest, uttering a distressful note.

The nest contained 4 light-colored ova.
I visited the two *S. socialis* nests mentioned
before and found the ova gone.

Saw 2 or 3 pairs of *Pteroceros* in the strip
near Black's field, acting as if they had
a nest, but I did not find one.

Heard 2 or 3 *Sciurus aurocapillus*.

Heard a Yellow-billed Cuckoo.

15. Was not out. Was gardening by

S. U. I. Saw *S. socialis* (seemed to be
building). Also *Melanerpes*, *Cyanurus*,
Oris calus, *Zenaidura*, *Icterus balt.*
etc. in the same place.

16. Saw a ♀ *Trochilus* fluttering in
front of trees by Rapid cr., picking
insects from the bark. Every time she
obtained some she flew to a perch,
and "smacked her lips" as to speak
as if trying to show her satisfaction.

Heard drumming of a *Bonasa*.

Saw many *Sciurus aurocap.* in the

woods everywhere; also several pairs
of *Titus*, various *Warblers* &c.

Saw a *Centurus* near Crescent.

Found a *T. mustelinus* nest, above
the Crescent (back from the river) on a
little tree, about 3 ft. from the ground.
It contained 2 ova.

Found a *Cyanurus* nest, near Rapid
cr., in a hawthorn, 4 or 5 ft. high. The
position was one that a *H. rufus* would
select, exactly. The parent, allowed
me to approach very near, before flying.
The nest contained 3 young, just hatched.

Found 2 *Mimus* structures (just
finished in clump of hazel-bush
above Crescent (near Limnea Pond).

Pileory found several *Mimus* & *H.*
rufus structures in Rapid cr. region.

Found a Sayornis' stone, on cliff
above Crescent, with large young in.
Another near it was about $\frac{1}{3}$ finished
& evidently belonged to birds that
had been disturbed before.

Saw many *Chordeiles* circling
over Crescent region, every now &
then producing the peculiar sound.

Saw a *Tyrannus carol.* dart down into the water to secure an insect.
Saw several pairs of *Pipilo*,
Saw several *Philohela minor* in the marsh above Crescent.
They were among the willows & when startled would fly up with a whirr perpendicularly for 8 or 10 ft, and then would dart off, taking an irregular (zigzag) course. While flying the bill was held nearly on the breast, so



Saw many *Molothrus* & 1 *Parus*.

- 17.** 1. Found a *Mimus* nest in eddy, next to the trunk of a tree, supported partly by a branch, & partly by a grape vine; it was about 15 ft. high; just finished.
2. Another farther on, on a little elm, also supported partly by a grape-vine; about 7 ft. high. Just finished.
- (a) Pewee's nest on north side of Burger's icehouse.
- 3) *Mimus* nest just finished, on a little haw-thorn leaning over the water by Burger's icehouse.

- 4) Another away out on a birch tree, leaning almost horizontally, about 8 ft above water, & 15-18 ft from shore. In Smiley's & I could not get to it.
- 5) Another a little below "lime-kilu" near the path, on a little thorn-bush, about 4 ft. from ground; contained 2 ova. Birds were not near the nest.
- 6) Another in the fork of a little elm, 6 ft. high, beside the old lime-kilu, with 2 ova. The nest differed from the others in having a great lot of weed-stalks, coarse-grass, & small twigs for a base.
- a) A *Sialia* stoups, in a rotten stump in timber near Rock Bluff, with young in; the hole was vertical, the opening being on top of the stump, the nest was of culms and grasses principally.
- 7) Minus nest (just commenced) in a goose-berry bush above Rock Bluff.
- 8) Another, just finished, in a little

tree, 4 ft. high, in a clump of goose-
berry bushes above Rock Bluff.
Sticks entered largely into the composition
of the base.

I) An. N. rufus, nest in a goose-berry bush
about 3 ft. high; 1 peculiar ovum.
The birds were nowhere to be seen.

Between Rock Bluff & Cave Spring

9) Mimus nest in a goose-berry bush by
Cave Spring; 2 ova - took one.

II) N. rufus nest in a goose-berry bush near
Cave Spring; it had one broken ovum in it
had evidently been abandoned.

III) N. rufus nest in a haw-thorne, about
4 ft. high; it was a rude affair (unusually
so) & had 3 light colored ova in. The
bird made a great fuss, uttering its cry
(somewhat like a "snack").

Just below Woodside Boathouse (in the hollow).

10) Found Mimus nest in a thorn tree,
about 7 ft high; it was very large,
the base being made of sticks, leaves
& grasses & one ovum; it was built beside
a last year's nest; just above Woodside Boathouse.

IV) *H. rufus* nest (not finished) in a crab tree, 7 ft. high, in the strip above Woodside boathouse. (Did not see the bird).

11) *Mimus* nest in 'south Butler strip'. It was on a little birch, 8 ft. high, & was not quite finished. Saw both birds; on kept up a me-aw.

12) Another a little farther up, just finished. It was in a very thick grape-vine, 6 ft. from the ground.

Found a Colaptes hole in the west side of a tall stump, on cliff above Crescent. It was near the top, about 15 ft high.

There were 6 perfectly fresh ones, in partly imbedded in the bits of rotten wood at the bottom. The eggs were pinkish-yellowish, before being blown.

The bird flew from the hole when I was yet 6 or 8 yds. from the stump, and when I climbed up, the ♀ kept up a sharp "clink", hopping about on the trunk of a tree nearby. The ♂

(although in sight) was silent.

Nearly all the *Mimus* of today, were either absent or silent, or uttered ~~as usual~~ but in a much less spirited way than when they have full complement laid, or young.

The *H. rufus* (except where otherwise stated) were also silent or absent.

Saw several pairs of *Geothlypis*, invariably in tall slough-grass near water. They were on the ground, & when scared up would alight in a bush or low tree. Saw many *Euspiza*, uttering their usual note. This was copied later

18. Visited the Robin's nest in Campus.

It had one broken egg & another with a large partly decomposed embryo, and had evidently been abandoned for some time.

Found a Robin's nest in a birch where several branches met at trunk about 15 ft. high, lined with coarse but soft grass. It contained one ovum. The bird flew silently away. Near old pottery.

The Sayornis nest in quarry below
mill had 5 ova. 4 pure wh. & one
very thickly spotted. Found Mimus
nest in a goose-berry bush above
Engle's. Both birds "mi-aw-ed".
There were three ova. Took 1.

It was about 3 to 4 ft high.
Found Wood Thrushes nest on the
horizontal limb of a large wh.-oak
about 20 ft high, and 5-6 ft
from the trunk. There were 4 ova^{with 1}.
The bird permitted me to approach
very near, & did not utter a note
until I got down when it uttered
a low, liquid note, in view above
Engle's beer-cellar.

Another a little above that in a
small hawthorne 5 ft. from the
ground. It had 4 ova.

Bird silent and allowed near
approach. The base of nest was
made mostly of leaves.

Found Scarlet Tanager's nest

Found a Parus atric, nest in a rotten stump on the water's very edge by Rapid Creek. The bird ~~was~~ permitted me to break in & I had to punch it out with a stick before it would leave, even ~~though~~ though partly covered with rotten bits of wood. When it did leave it kept up a pitious cry near by until I put the ova away. There were 7 ~~fresh~~ eggs, with medium sized embryos.

The hole in which the nest was placed was about $3\frac{1}{2}$ in wide at the bottom and about 10 in deep.

(See description of nest.)

Found a Chewink's nest on hill above Rapid Cr. with 5 ova,

It was at the foot of a small oak stump from which a great many shoots had sprung and was surrounded on all sides by dry leaves. It was composed of

in a little hickory about 10 ft high. The nest resembled Heart-bird's but was better concealed, being in a tuft of hickory leaves.

The male was near and kept up a continual "tip-wor". It was in Johnson's timber. There were three Cow-bird's eggs and 1 Pyrranga.

Found another on horizontal limb of a large wh. oak about 5 ft. from trunk & 20 ft. high. It contained 3 ova, 2 Tanagers & 1 cow-bird. The birds acted as above, but both were heard. #

There were 4 ova in Wood Thrush's nest in the ravine near by.

Found T. mustelinus nest with two eggs in a little iron wood, about 7 ft. high, above Crescent.

Of the two Mimus nests in hazel thicket near ponds above Crescent, the lower had one ovum & the upper two.

leaves + strips of bark & was
lined with fine culms and dry
grasses. Diam. = $3\frac{1}{2}$ in.

Depth 2 in.

It was on a level with the surface
of the pile of dry leaves. The
female "shulked" from the nest at
my approach and then both ♀ + ♂
kept up a cry. The female the
usual "Chewink" uttered in a distressed
manner + the ♂ a sort of "chink".
The ova had small embryos.

May 19.

Found a *T. mustelinus* nest on a
small white oak, about 7 ft. from
ground, on hill above Crescent
in dense woods. Contained one ovum.

The base was composed of leaves.

Bird was gone.

Saw a *Melanerpes* making a
hole in the dry top of a tall
elm ~~in~~ bottom above Crescent.

The hole was 5-6' deep. It would

chisel a while, then, carry out
the chips in its bill to the
opening & drop them. When it
observed me it hopped from the
hole and began picking in
different places (evidently played
innocent).

Mimus nest on a little leaning
hawthorne near Rapid cr., about
3 ft high. 1 ova. Bird cried.
Mimus nest up Rapid Creek in
a willow about 4 ft from ground.
Just finished but birds were gone.
Found Picus pubescens hole
with five ova ~~in~~ near top
of dry tree on Rapid cr. bottom.
It was in the under side
of a stump of a limb & was
about 8'-9' deep & about
4' ^{in diam} at the bottom. The opening was
a little more than an inch.
The ova were partly imbedded in
bits of rotten wood. Small embryos.

The birds were near by, silently hopping about among the willows & when I came down the ♀ flew to the hole & would take a peep into the ~~hole~~^{it}, then hop about and again peep in; - it was last seen by me picking about in the top of the stump. Both birds silent but ♀ made herself more conspicuous. Found Turtle Dove nest on a stump near Rapid Creek.

Just finished. No ovals.

May. 20.

Found a Dialia's nest in hole in top of tree right in front of a house on Van Buren street with large young birds.

It was about 20 ft high.

Found Mimus nest partly supported by a grape vine & partly by a limb of a small maple about 15 ft high. 1 ovum.

Bird was near & kept hopping

about but did not make much noise.

It was in center of "eddy".
Another near the ice house in a
small thorn tree, also supported
partly by a grape vine, about
7 ft. high. 1 ovum.

The bird silently flew away
while I was yet at a little
distance from it, & then "mianed".
Sticks were much used in constructing
the base.

Took one ovum from the nest below
line-birch. There were 5 & the
bird permitted to come very near.
Found *Sialia's* nest seemingly just
finished, in a rotten stump on
river-bank in "clearing".

Saw a small flock of Cedar-birds
in top of a tree above "clearing".

They were silent.

The *Sialia* nest above "clearing"
~~was~~ contained young (rather large).

although the hole had been broken out so much that the nest was exposed, the bird stuck to it.

Found Mimus nest in hawthorne by fallen "corn-tree" above clearing.
Found Wood Thrush's nest on a little thorn tree in south Coralville region, about 6 ft. from ground. The bird permitted to approach very closely before it became disturbed. While I was at the nest the bird kept up a continual cry & flew about.

The nest was very loosely constructed (could run through it in places)

Three ova
Found a little nest, evidently just finished in top of a buckhorn sapling 30 ft. high on a grape vine.

May 21

Was not out,

(went swimming with Pils.)

Thalictrum about gone, Polemonium,
Found many *N. alternata*, *profunda*,
lancea & several *concreta* at
old lime-kiln (crawling around).

Staphylinid: Found Sayornis nest
with 5 eggs, scarcely spotted, on cliff between dams.

May 15.

Went to Cat-fish bend.

Found *Smilacina stellata*, Puccoon
(the larger) also smaller one, Bird-foot
Violet (about done) The yellow Composite
Daisy, Comandra, *Phlox pilosa* (first)
& *divaricata*, Crossbill, Water
leaf (large & small) Columbine,
Crab, Asarum, *Menyanthes* (both
species), Indian Pink.

Found 2 fossils at Cat-fish
bend, *Droptlodonta decurva*,
Cyrtina, & large *Atrypa aspera*.
Blue-eye & yellow eye grass.

Arenaria (broader leaved one was
brought to me)

May 17.

Ground Ivy blossoming.

Saw Cat-birds making love, Cow-black
birds, etc etc. Saw English Sparrow courting
Saw Jaybird's nest with 4 young 3 or 4 days
old, on Sediver Bluff. This was on the 15th.

About the 8 or 9th of May
I saw Chestnut-sided warbler,
D. coronata, palmarum,
Spizella socialis, Indigo bird,
Canadian flycatcher, *Poliophtila*
etc. in the city.

Saw wild Plum, Choke Cherry, Cardamine
rhomboides, many Thalictrum anemone,
Polemonium & Cattha palus.

Obtained some fine Lim. decidua
in small stream running through Witt's
old place.

Saw Cranes bell, Indian Turnip,
Blue Violet, Moulana, Iron-wood,
Saw small dark gray moth visit
Blue Violet & when it left pollen was
lodged on (in) the stigma.

Saw Potentilla, Dog-tooth Violet (well-
along), Mertensia (at its best)
Asarum, Anemone nemorosa, Dentaria
diphyllum (witted already), Isopyrum
(about the last), Crab.

Phlox. Wild Goose-berry &
Wild Currant.

Oven birds plentiful also Chewinks.

May, 14.

Went out about 5 P.M. toward
Coralville. Rained very hard.
Found Ranunculus repens, abortions,
Puccoon, one Lady's slipper (small yellow)

May 6th

Went to Coralville with Furber.
Saw Fringoids, etc., etc.
Found Mourlana, Puccon, Violet Blue,
Yellow Violet, Veronica, Crane-bill, The
Rochet? (*Erucifer* on rocks), Columbine,
Thalictrum, Anemone nemorosa, Dicentra
Crataegus ^{tomentosa} (sp.?), Jacobs Ladder, Isopyrum,
Ranunculus repens, & abortions, the Little
Water-leaf, Dog-tooth Violet,
Indian-turp (early), Claytonia
Found Turtle Doves nest on ^{stump} with
one fresh egg. (Mr. Nutting saw young
of *Zenaidura* about 50 ft high (in nest, in
campus. They "sucked" food from the
mouth of the mother, both at the
same time.) *Dentaria diphylla*

May 7th

Went to mill and got my chubs,
shiners etc. (see jar.)

May 8th

Went to Saunders's Creek by way of
Willis' old place.

Flowers etc 1887

Apr. 30

Went to Saunders' creek.

Saw Dandelion, Wild-plum, Iron-wood, in bloom. Obtained the lot

of fishes from Saunders Creek (see jar ^{Herbules})

Also fossils - Crinoid, many Corals, Spirifer
etc, Dog-toothed Violet, Jacob's Ladder,

Saw Mertensia, Isopyrum, Claytonia,
etc. Some badly wilted Trilliums.