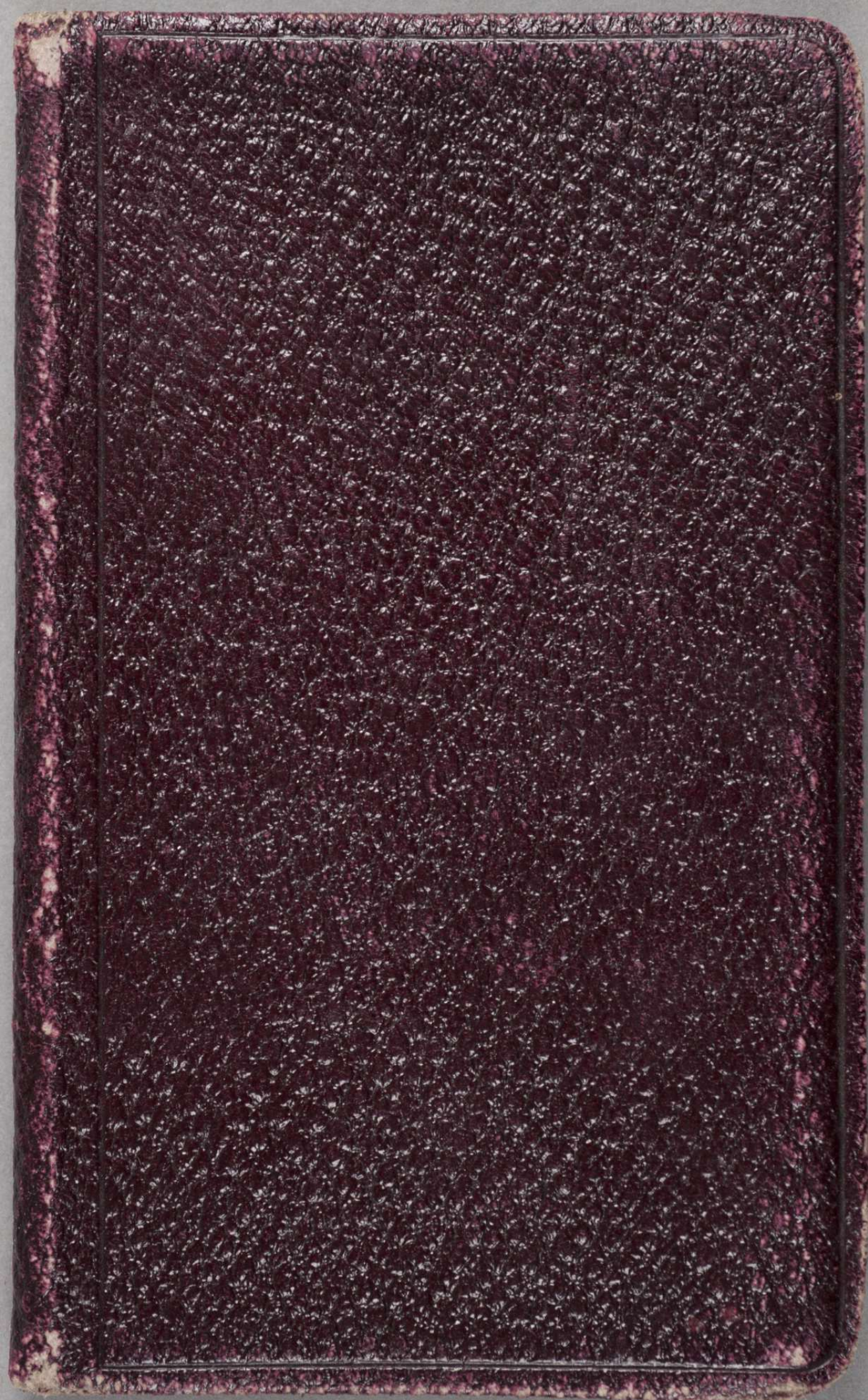




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1138

The morning of Oct. 20-
" evening " Nov. 17.
" afternoon " Dec 18
" " Jan 17

Gyrinus idae - little beetle

subd. about - eye div. cut
dorsal and vent. part - one
part looks into water -
one into air. - Larva
on lily pad - snails - great
larvae - special whorl
on pad. Phryga

Amnicola breathes thro
gills. Phryga has long
subd. in air order of gastropods
Amnicola only perfect subd
that ever comes into
stagnant water.

Planorbis - worm that creeps
by means of cilia

Planorbis flat coiled
shell. Linn. name.

Gastrea - freshwater water
w. a.

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Loxares found water-
sticks over for the
rod and lays eggs on
underside green patches
groups of protozoa.

Bivalve sphaerium -
small only bivalve that
lives in such stagnant
water. All young snails
nymph of Byrrhina

Physa corollata - left handed
Limnæa - right handed
B. cutis pupa.

Water scorpion - hindra-
chironomus.

Cheironax - small flat
beech, Gen. mules of fresh
water sponge - Great Carice
with haemoglobin in
body.

Sabartine Macoula,

Corydalis - Triglochin
Caterpillars are larvae in
wood just above water.

Second colonies of sponge in
July - some developed with
being subjected to low tides.
Hydrachnidae - water mites
female with eggs - 4 pairs
of legs - spider-like - red.
giant hydrachna

Tiger beetle - first to appear
in spring last to go in fall.
burrows in sand

Capriidae - very common in
fall. Spiders in sand.

Acyridae - web over top of
sand. Tiger beetle holes
seen, but no web.

Marsh fly.

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Hyemophila in gull
Chrysidae

Lepidophlebia nymphose
flies in grass on ridges,
unwounding forms

g. hoppers

Oct 15: Villers Inlet

with larvae - scarabidae
insect beetles in sand

Spider burrows - woven
red by refuse dirt

Lycosidae - bird tracks

Geosiphonia mostly

scatteredly shores

little spiders - burrows 12 in

deep sand in ~~small~~ beetle?

case. Forcettidae - Globidisk

green - long antennae

Cicadidae - vine grasshopper

Ant beavers.

Leaf caterpillar - nest made of leaves etc. brownish larva about an inch long - usually gregarious. send out trigger wags. - makes lateral burrow into side till - usually leaves before this.

Oak galls - Plant lice make galls on cotton wood. Many dipterous - gall gnats - a few lepidopterous insects. Cynipidae - hymenopterous larva - produce galls on oak - parent insect pierces plant tissue and lays egg - no poisonous secretion usual - but exists occasionally. Tunnels of leaf miners - egg laid and ant larva

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eat way along bet. tissues
pupoles and issues out as
minute moths. Spider
made home in vacated gill.

Phaneropteridae - walking
stick - small specimen
Space in leaf formed by
plant lice. Aphididae -
pathological growth.

Oak gill - small green.

Big beetle larva - 2 in
long. Lucanidae -

Slater Beetle.

Click beetle. Elateridae -
3 in long - dark brown.

$\frac{3}{4}$ Elateridae. Egg case of
wild cockroach

Myriapods. Polydesmidae
picked up on damp
leaf in gully. Diplopoda.

Gall on huckleberry - multiple
Early worm egg case -
Lisbellid nymph - *Corylus* -
Lumbriculus - clover heat
worm. Terrestrial forms in
decaying wood can be kept alive
Termites or white ants, little
white fellows. more closely
related to grasshoppers &
sensitive to light & eat it
digest wood - use it for lining
nests etc. work it up very fine,
very harmful - eat inside of wooden
beams. negatively photothetic.
Both ants & termites social
animals. social castes.
Ants have queen. workers -
soldiers. special forms - sterile
with large head & jaws.

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bees. With larvae
sterile forms are both
males & females. Green
longer than other forms.
Colonies of black ants in wood.
Big black ants carpenter
ants. Leaf roller - small
moth larvae of silk beetle
Spider webs seen.

wooden

Scabious leaves

Diplura larva - digger

mayfly like - no legs

Cut grass in soil &

winged crabs - Formicidae

Scabious ant - abundant

Corixidae - Notisus

Successorinus. Dytiscidae

beetle - abundant at end of

of brown. to rufous-like

Notonecta undulata

Thysanura - spring tails

Collembola

Cerethra - great larva - caught
in clear water near shore -

Eulixida - positively phototactic

Branchiobdella - parasitic around
eye and gill chamber of
cray fish. sucks juices.
water. scorpion.

very big tadpole body distended
with water.

Tiger beetle larva - moults
and head grows larger.
hook to hold him in hole

Great no. of animals
that live along beach

Hemiptera - Chrysomelid -
Luna beetle Cetti dae -

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jumping spider -
Hornet - Bee - wasps
butterfly. Pieridae
cabbage butterfly.
bumble - bee.

Staphylinidae - long
slim black bug
Stalk with hybrid seeds
One caught a spider in it;
ventured thro' hole in
old coat.

Ground beetle larvae
Dielidae. Mesophaniscus
said Phaeodoria -
little white dots.

Green Hornet. Libanotis,
these die - start new colony
in summer

Cutby choro - aestivata -
and fisheriana. May

eggs in spring - in water.

Albion. Ill. Oct. 22

Low damp woods - abundant
Corymbae-growned beetles under
rotten wood until late in

fall. Land snail bug.

Epiphora larva.

Green + red Chrysomelid & green
+ red. Fly larvae - spinetail-
larvae. *Columba*.

Shell - less molluscs - slugs

Cyprinodont - gills varicose -

eyes in end of bristles.

Cochranidae - daddy longlegs -
another small spider

Dead shells of Succinea -

parasite in *Polygona* - epiphyllum

crustaceans. *Succinea* varicose

not to put in waf. *Cypripedium*

hibernating

Cricket. Rose beetle

Staphylinidae & symbiotic
relations with ants

Thymenophora hibernating
under bark. Crane fly

larvae in damp logs.

Stag beetle larvae. Queen
honey bee hibernating

Shell of Polygyra often
found eaten. Macrocyclus

has it, keeping organ in
mouth. Diptera larvae

quite abundant. Herbivorous
snail eaten by predatory snail

Inhabited

Sceloporus bella - anti feed

Moth in ground

Small colony of Hemiptera
closely related to plant lice.

Chrysalis of butterfly.

Cynanomia - orange fly
Slight rise of temp. by great no
together many can be go.

Carabidae - ground beetles.

Water skippers - semi aquatic
forms. Scarabid pupa.

Julius - millipede

White faced hornet

Flies like bee-eating - Muscivora
wingless wood cricket

Stink bugs. Pharnid -
quite characteristic of these
woods. Chilopoda - 1 pair of legs
to seg. Diplopoda - 2 " " "

millipeds. Larva of
Cynipidae. Lepidoptera
larva. Hornet that was principal
case with leaves & other pillars
hibernate also winter as
caterpillars - C. arctii.

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Saw-bug adaptation of
aquatic animal to
terrestrial life, Gill breather.

 Presence of air
chambers in gills - a
sort of lung - rudimentary
system of trachea.

Uniscidae

Riveride.

Caddis fly case on under
side of rock - opening up
stream - in deep water
flows in and animal
remains still. May fly
nymph. *Ephemeroidea*.

Amphipoda - Beroza -
branching form on under
side of stone.

Cyclops - little snail.

Limnatis attached to

above in a current - esp. *Alpheidae*
no special - *Admirable* - best so
far met. Is aquatic life that it
doesn't have to rise to surface for
air. In very young *Carideidae*
very little apical pft to A -
I put one of *Calappa* sp. - not much
of little apical but not visible -
3 pairs, 4 pairs eggs.

They are in dark water - vertically
in water side of *Alpheidae*.

Many very small in shallow water.

Geopelia of fresh water *Alpheidae*.

Hydra fresh - *Carideidae* in

shallow - very abundant

Colymba - *Hydra* -

Alpheidae -

Alpheidae - *Carideidae* -

Alpheidae - *Carideidae* -

Alpheidae - *Carideidae* -

Large aquatic sow-beetle.

Campelasma - empty snail
shell.

Pool connected with river
only at flood. River
molluscs carried in here
many of them. *Gonostoma*
fluviatile - etc.

Because water dried up in
summer. *Planorbis*
in weathering snail has
survived.

Gammarus. Blood red
Uca - *gobius* - has unusual
affinity for oxygen - can
live where no other
animal could.

Streplos.

Sphaerium - another
species - large mussel

Chironomidae.

River snails disappear with
disappearance of algae -
burrows in mud - hi her note

Wolf Lake - Nov. 5 - 1904

Gammarus - Physa.

Dragon fly nymphs - Lib.

Notonecta - Hydrobiidae - 8 prong

Gammarus - Baicaria -

Polostomidae - Ran. abed

Palaeomonetes fresh water

greyish white transparent

Young L. nigris on lily

beds. Hydrobiidae.

Beverly Hills Nov. 12 -

Mold cockroaches - very

inactive. Succinea - Land

snail - freshwater

Cicada - Harvest fly nymph

skin. Lives in a round web

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winter. *Butorini* id.
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Butter flies - with painted abdomen
Polydora have become common around
the shell. Aphids in great numbers.
Myriapoda - 2 spp. of white
ants came for aphids as well as
white & yellow aphids. Young
ant larvae yellowish. Lay eggs and
food. Polydora. * In breeding
wasps. Scolded. Old swarms on
egg case. Cuckoo - like nothing.
Food worked over by ants.
Click beetle. Dry, black surface
ants. Black beetle. Staphylinid. Bee
Lepidoptera larvae - black & brown
back. Parnassidae - like ants
in adult stage - morning
cloak. Pupae cases of beetles
with larval skins inside.
Scolded larvae.

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Sexual dimorphism. Larvae
stopable I nails uncommon
down hill.

Aquatic beetle - Hydris ~~recess~~
taking at night of land damp
spot. I by horse on under
bank - yellow. ~~uncommon~~
P. ~~uncommon~~

Nov. 19, '04

Castled - Cuculus -
Phaenochor - Myiophis
rotiferus? Gammarus is -
etc. present here. I. ~~uncommon~~
is - water scorpion
Notonecta - Valvata -
Haliplus - beetles with
brood bags. Saw
beetles - various species
in summer. Cicadas.

Dytiscidae.

Epistominus - beetle - Dytiscidae
mouth on ventral surface.

Hydrophilidae - Chauch does not
get wet. Campeloma.

Phenocera - Gyrinus did
larva - beetle-like fly.

Caddis fly Young Trichoptera.

Sphaerium - Dragon fly
nymphs with flattened body.

Liellid dragon fly

Case - 2 big stone-cases mostly
silt. Cases of simuliids.

flies that stick out of case -

black fly, Gnat.

Tarnaxia - adapted to hanging
to stones. 5th family of beetles - in
sweet water.

Dytiscidae - Dytiscidae
Gyrinus.

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Cavanlar -

Cricket hibernating
Cresbidae - Centipedes.

Click beetle larva.

Thysanura - Click

beetles. Gryllus - antipede.

Little water beetles.

Group of fly larvae.

Slow bugs. Hithofus.

worms cricket

ant. & bug. cow-bugs

e. myriapods toad toad

One of the waltz bee

Gulls hatched by Aphid.

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Chicago City Council

Called to order by Turner 7.30

Roll-call - Minutes

approved without reading

appointments confirmed -

gas inspector - oil inspector -

all these read by Clerk. Mayor

being acted other business -

Bill for building improvement

of which fire department

disapproved. Roll Call

announced - carried -

Ordinance objected to -

may only protest - no action

could be taken for a year

Alt. Hunter called

for a committee -

Roll-call - eyes have it

Thanks - presents

report of Committee on street and
alleys - He stood up and said
passed" as the names of the
proposals were read off.

Order to give laborers a $\frac{1}{2}$
holiday as well as clerks.
Suggestion to suspend rules
and pass the ordinance -

Objections from various
quarters - man with beer
his motion - referred to
Committee on the same.

Resolutions of respect to
Julius Rosenthal - moved
and seconded that it be
carried by a rising vote - carried.
Orders read - if there is no
objection they pass. Orders
carrying appropriations
are voted on in a lump -

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Motion - that position of city hall
be referred to voters.

Motion that this could not
be done without a petition
from voters. It has been
referred to a committee on
judiciary - but many objected
and said that the rules be
suspended - any and every vote
did not carry & referred to
judiciary. Caught in a hole
in favor of the present site.

Long scrap as to which
committee it should be
referred to. Some get
mixed up in rules.

Roll call demanded as to
taking Pin's motion -
eyes were it - tabled.

A contract - scrap over it.

Movements that things be placed in
the numbers.

Petition to make a strike

Edgewooder prohibition - ce

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Paradise Calif. Jan. 20. 1906.

Visited Wilson's Lake - no
nymphal dragonflies - a few
Notonectidae - also a water
beetle.

Jan. 23. Found a nymphal
dragonfly in stream in
Los Robles Canyon. I kept him
in a jar with twigs and Chinese
lily leaves. It has a strong prefer-
ence for the under side of the
leaf where cranefly pupae are.

Three gill plates at end of abdomen
a light colored streak on back
from middle of the abdomen to
the tip.

Mar. 29.

Visited Wilson's Lake again -
water very high - spring rains
heavy and difficult to wade.

bottom. Found one Libellulid, five
Agriarid and one Gomphid
my mylar.

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1. John Butler - Aurora - New York.
2. John Farmsworth Butler - Elyria, O.
 1. Wife's maiden name Sawtelle.
 - Grandmother's mother's maiden name Capar.

De Vries's lecture - Oct. 8, 1898

Individual differences everywhere
apparent. Cuvier's suspected law
of variation. Study of indiv. dif.
limited to a single character.

Height of body at age of conscription,
more than half about the same
height. Curve whose direction is
fixed by Binomial theory of
Mendel. Much in variability.
In nature nothing is more
fixed than variation.

Mental & moral gifts also
subject to law. Heredity of
genius (talent, ambition and
energy). Estimation of
fellow men measure of genius.
Natural talent depends on
ancestral gifts.
Heredity and Variability.

Hereditiy in wider sense means
species - species wise suddenly.

Hereditiy in narrow sense means
resemblance to parents.

Every character variable within
certain limits.

Our paths that for an instant
crossed, are sundered now,
And far apart we live our days
of life

I know trivial griefs, rejoice in
simple joys
And count the full hours as
they slip away.

But I do know, tho' well
content and in what I have,
That had the fates decreed that
I should live.

Beside you, see you daily
know you well
My joy of life had grown to
heavenly bliss.

My lord, my lord, I could
have loved you well.

Wish I had a chicken coop.

b. y.

