The Long Snowy Winter

Jan 4th 1856th

A clear cold day -- P. m. to Walden.
To examine the ice
I think it is only such a day as this -- when
the fields on all side are well clad with
snow over which the sun shines brightly,
that you observe the blue shadows on the
snow -- I see a little of it today. Dec 29th
there were 8 or 10 acres of Walden still open --
that evening it began to snow & snowed all
night -- & the remainder of the pond was frozen
on that the succeeding night. But on Jan.
first I was surprised to find all the visible
ice snow ice -- when I expected that only the
8 or 10 acres would be -- but it appeared that
the weight of the snow had sunk the ice already
formed & then partly dissolved in the water
which rose above it & partly was frozen with
it. The whole ice (Jan.) 1st was about 6
inches thick -- and I should have supposed
that over the greater part of the pond there
would be a clear ice about 2 inches thick
(on the) lower side -- yet where I cut through
near the shore I distinguished 2 kinds
of ice, the upper 2 1/2 inches thick & evi-
dently snow ice, the lower about 4 inches
thick & clearer -- yet not remarkably
clear--

1 ice--: altered from "ice."
Some fishermen--had ap. by accident
left 2 of their lines there which were
leading from hole to hole frozen in. I could see there tracks
where they had run--about day before
yesterday--or before the snow--& their dog
& the snow was stained with tobacco juice-- They had had lines set
with them." They had ap. taken no fish, in 2 or 3 distant coves
for they had cut no well to put them
in. I cut out the lines, the ice being about
an inch thick around them--& pulled up
a fine yellow pickerel which would
At first I thought there was none for he was tired of struggling
but soon I felt him
weigh 2 lbs or more"-- The hook had
caught in the outside of his jaws--
the minow hung entire by his side..
It was very cold, & he struggled but
not being able to bend & quirk his tail
a short time,"in a few minutes became
snowy
quite stiff as he lay on the ice-- The water
in his eyes was frozen so that he looked
as if he had been dead a week. About
15\(^2\) minutes after, thinking\(^1\) of what I
had heard about fishes coming to life
after being frozen
again"on being put into water--I thought
I would try it. This one was to ap-
pearance as completely dead as if he had
been frozen a week-- I stook him up
on his tail without bending it. I put
him into the water again without re-
moving the hook."& after a minute
or two was surprised by a sudden con-
vulsive quirk of the fish--and a

\(^1\) "15" altered from "16"
\(^2\) "thinking" altered from "I"
minute or 2 later by another, & I saw that
it would indeed revive & drew it out
again. Yet I do not believe that if
it had been frozen solid through & through that
it would have revived--but only when
it is superficially frozen--
This reminded me of the pickerel which
I caught here under similar circumstances
for Peter Hutchinson--& thrust my mittened
hands in after--'
When I put this pickerel in again after half
an hour--it did not revive--but I held
it there only 3 or 4 minutes, not long enough
to melt the ice which encased it.
Another man had passed since the snow fell, & pulled up at least one of the
lines-- I knew it was today & not yesterday
by the character of his track--for it was
stiff made since the crust formed on this
snow last night--a broad depression
cracking the crust around--but yester-
day, it was comparatively soft & moist.
Aunt says that Mr Hoar
tells a story of Abel Davis to this pur-
port-- He had once caught a pickerel
in the brook near his house--& was over-
heard to say-- "Why, who'd a thought
to find you here in Temple Brook.
With a slice of pork you'll make

‘after--: altered from “after.”
Rhody (or whatever the name of his wife was) & I a good meal." He probably was not much of a fisherman, & could hardly contain himself for joy.

It is snapping cold this night (10 Pm) I see the frost on the windows sparkle as I go through the passage way with a light.

Jan 5th '56
One of the coldest mornings Therm. 9°-- say some P. m. Up river to Hub's Bridge.

It has been trying to snow all day--but has not succeeded, as if it were too cold--

Though it has been falling all day--

there has not been enough to whiten the coat of the traveller. I come to the river for here is the best walking--

The snow is not so deep over the ice.

Near the middle the superincumbent snow has so far been converted into a coarse snow-ice that it will bear me, though occasionly I slump through intervening water to another ice below--also perhaps the snow has been somewhat blown out of the river valley. At any rate by walking (where) the ice was frozen last, or over the channel, I can get along quite comfortably--while it is hard travelling through this crusted snow in the fields.
Generally to be sure the river is but a white snow-field indistinguishable from the fields—but over the chanel there is a thread, commonly, of yellowish porous looking snow ice—The hard-hack—above the snow has this form

{drawing} Should not that meadow where the 1st bridge was built Also there are countless be called hard-hack meadow? small ferns with terminal leafet only left on still rising above the snow—for I notice the like the large ones in swamps herbage of the river-side now—thus^ that coarse now straw colored grass {drawing} What with the grasses

& the stems of the button-

bushes—the snow about the button bushes several rods broad forms often broad—low mounds nearly burying the bushes above which the & that broad bladed—now straw colored grass the tops of the button bushes still rise many of with their now black looking balls—erect The black willows have here and there still a very few little curled & crispy leaves or dangling— {drawing} The river is last open methinks #V. the 27th inst% just below a bend%^%—as now at the bath place & at clam-shell Hill—& quite a novel sight is the dark water there— How little locomotive now look the boats whose painted sterns I just detect where they are half filled with ice & almost completely buried in snow—so neglected by their improvident owners. some drawn up on the bank

^ broad: altered from “round”
This is not merely improvidence--it is ingratitude
Now and then I hear a sort of
creaking twitter maybe from a passing
snow bunting. This is the weather for them.
I am surprised that nut Mead. Brook
has over flowed its meadow--& converted it
into that coarse yellowish snow ice.
Otherwise it had been a broad snowfield
There is a narrow concealing a little ice under it. thread of open water
over its channel
The thin snow now driving from the north
& lodging on my coat--consists of those
beautiful star crystals, not cottony
& chubby spokes as on the 13th Dec. but
thin & partly transparent crystals. They are
about 1/10th of an inch in diameter perfect
little wheels with 6 spokes without a tire--
--or rather with 6 perfect little leafets--fern--
& slender
like--with a distinct straight^midrib--raying
from the center-- On each side of each
midrib there is a transparent thin blade
with a crenate edge--thus {drawing}

How full of the creative genius is the air
in which these are generated! I should
hardly admire more if real stars fell
& lodged on my coat-- Nature is full
of genius--full of the divinity--so that
not a snow-flake escapes its fashioning
hand. Nothing is cheap & coarse--

Soon the storm increases--it was

7 flowed: altered from "flown"; "ed" written over "n"
very
already "severe to face--& the snow comes
finer more white & powdery--
Who knows but the original form
of all snow flakes--but that when
I observe these crystal stars falling
around me they are but just generated in
the low mist next the earth. I am nearer
to the source of the snow--its primal--auroral
and golden hour--or infancy-- But commonly
the flakes reach us travel-worn & agglomerated--{comparatively without order
or beauty, far down in their fall.
like men in their advanced age--
As for the circumstances under which
this phenomenon occurs-- It is quite cold V. Mar
& the driving storm is bitter to face 19th
though very little snow is falling. It comes almost horizontally from the north.
Methinks this kind of snow never falls
Yes it does
in any quantity. A divinity must have
stirred within them before the crystals
did thus shoot & set. Wheels of the
storm chariots-- The same law that earth
shapes the "star" shapes the (snow flake--
Call it rather) snow-star-- As surely
as the petals of a flower--are fixed each
of these countless snow stars comes whirling
thus
to earth with pronouncing "with emphasis
the number 6. Order--λογός
"This was the beginning of a storm which reached far & wide & else--
where was more severe than here--§

§ But: altered from "but"; "B" written over "b"

"earth-star" is a fungus or toadstool that opens into a star shape around the center
On the Saskatchewan when no man of science is there to behold still down they come, & not the less fulfill their destiny, perchance melt at once on the Indian’s face-- What a world we live in! where myriads of these little disks so beautiful to most prying eye--are whirled down on every traveller’s coat--the observant & the unobservant--and on the restless fur squirrel’s coat--& on the far stretching fields & forests--the wooded dells--& the mt tops--far, far away from the haunts of man they roll down some little fall over & slope--come to their bearings & melt or lose their beauty in the mass--ready anon to swell some little rill with their contribution--& so at last the universal ocean--from which they came--There they lie like the wreck of chariot wheels after a battle in the skies.

Meanwhile the meadow mouse shoves them aside in his gallery--the school boy casts them in his snow ball--or the woodman’s sled glides smoothly over them--these glorious spangles--the sweeping of heaven’s floor. And they all sing--melting as they sing--of the mysteries of the number 6--six--six--six.

He takes up the water of the sea in

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"S" written over "s"
his hand, leaving the salt--he disperses it in mist through the skies--he recollects & sprinkles it like grain in 6-rayed snowy stars over the earth--there to lie till he dissolves its bonds again.

Found on a young red maple near the water in Hub's river side grove--a nest perhaps a size bigger than a sun-yellow birds--& a little of something like dried hickory^ blossoms chiefly of bark shreds--bound & lined with lint^-- It a little feather yellow at the extremity attached to the outside was on a slanting twig or small branch about 18 feet high {drawing} & I shook it down. The rim of fine shreds of grape vine bark chiefly-- The outer edge being covered with considerable 11 of the droppings of the young birds-- I thought it the same kind with that found Dec. 30th ult. Can it be a red start--or is one of the vireo's possibly? Which would ac. for the or a gold finch? yel. tipt feather.

In the blueberry swamp near by, which was cut down by the ice--another perhaps a little smaller--of very similar materials but more of the hickory (?) blossoms on the outside beneath--but this was in a nearly upright fork of a red maple about 7 ft high. The little nest of June 26th '55 looks like the inside of one of these. Upon these 2 nests found today & on that of the 30th Dec. I find the same sort of dried catkin (ap not hickory) connected with a little sort of brown bud--may be birch or alder-- This makes me suspect they may be all one kind--though the 12 last was in an upright fork & had no drop-

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11 "considerable" written over "considerably"
12 "the" written over "that"
Jan 6th

// High wind & howling & driving snow storm
all night--now much drifted-- There
is a great drift in the front entry &
at the crack of every door--& on the window
sills. Great drifts on the S of walls--
Clears up at noon--when no (---) vehicle had passed the house--
Frank Morton has brought home & I
opened that pickerel of the 4th ult-- It is
frozen solid-- Yellow spawn as big as a pin head--
enwraps its insides the whole length--1/2 an
inch thick-- It must spawn very early then.
or maw
I find in its gullet or paunch--(the
long white bag) 3 young perch, one of
them 6 inches long--& the tail of a 4th--
"& yet it was caught in endeavoring to
large swallow another minnow! Its belly was
considerably puffed out. 2 of the perch
lay parallel side by side--of course head
downward, in its gullet--(?) The upper & largest
perch was so high that he was cut in
two in the middle in cutting off the head.
This is what you may call voracity.
P. m. to Drifting Cut.
%prob%
The snow is now % more than a foot deep on a level.
While I am making a path to the pump
I hear hurried ripplesing notes of birds, look
// up & see quite a flock of snow buntings
coming to alight amid the currant tops

13 "had" altered from "has"
14 "&...minnow?" (lines 19-21) marked by T. for transposition with "Its...head" (lines 21-26); T. numbered the sections "1" and "2" in the margin
15"," poss ";" or "--"
in the yard-- It is a sound almost as if
made with their wings. What a pity
our yard was made so tidy in the
fall with--rake & fire--& we have
now no tall crop of weeds rising above
this snow to invite these birds.

I am come forth to observe the drifts.
inches
Perhaps six more on a level has fallen. or more
It has not lodged on the trees
They are as usual on the S side of the
walls & fences--and judging from the direction
of their ridges the wind was due north.

Behind Monroe's tight board fence it is
a regularly swelled unbroken bank--
but behind the wall this side carved
scallops
into countless perforations--scrolls--& copings
An open wall is then the best place for a
drift-- Yet these are not remarkable
rich-- The snow was perhaps too dry.

Now at 4 1/4 the blue shadows are
very distinct on the snow banks--

On the N. side of the Cut above the
crossing--the jutting edges of the drift
are quite handsome upon the bank--the
snow is raised 12 feet above the track
& it is all scalloped with projecting
eaves or copings--like turtle shells

They
project from 3 to 5 feet & I
can stand under them. They are
in 3 or 4 great layers one lapping
over another like the coarse edge of
a shell--looking along it they appear
somewhat thus (drawing) Often this
coping17 has broken by its own weight
& great blocks have fallen down the
bank--like smoothed blocks of white marble.
The exquisite purity of the snow (drawing) & the
gracefulness of its curves are remarkable.

Around some houses there is not a single track--
Neither man woman nor child--dog nor cat nor
fowl has stirred out today.-- There has been
no meeting. Yet this afternoon since the storm
it has not been very bad travelling.

Jan 7
They say there was yet more snow at Boston 2 feet even
At breakfastime the thermometer stood at 12°--
Smith's was
// earlier it was probably much lower-- at 24°--
early this morning. The latches are white with frost at noon
They tell how I swung on a gown on
the stair way when I was at chelmsford--
the gown gave way I
fell & fainted & it took 2 pails of water
to bring me to--for I was remarkable
for holding my breath--in those cases--
Aunt L. tells how (a 4th of July?) I stood
at the window there & exclaimed--the bells
ring, & the guns fire, & the pee-pe you")
Mother tried to milk the cow which
took
father brought on trial--but she kicked
at her & spilt the milk18 (They say a
dog had bitten her teats) Proctor laughed
at her as a city girl & then he tried

17extra stroke in word
18 "milk" altered from "milks"
but the cow kicked him over--& he finished
by beating her with his cow-hide shoe--
Capt. Richardson milked her warily--standing
up. Father came home--& thought he would
for she needed much to be milked
"brustle right up to her" but suddenly she
lifted (her) leg & "struck him fair" & square
right in the muns"--knocked him flat
& broke the bridge of his [nonce]--which
He distinctly heard her hoof rattle on his nose
shows it yet. This "started the claret" &
without staunching the blood he at once
drove her home to the man he had her of--
She ran at some young women by the way--
who saved themselves by getting over the wall
in haste.

Father complained of the powder in the
M. H. garret. [At] Town meeting but it
did not get moved while we lived there
Here he painted over his old signs for
guide boards--& got a fall when
painting Hale's (?) factory.

Here the bladder John was playing with
burst on the hearth-- The cow came into the
entry after pumpkins-- I cut my toe--&
was knocked over by a hen with chickens
&c &c.

Mother tells how at the Brick House
we each had a little garden a few
feet square--& I came in one day having
found a potatoe just sprouted which by her
advice I planted in my garden-- Ere long

19 extra " cancelled
20 Context suggests "nose"; MS is unclear but word is not "nose". T may play on
"muns" for mouth. Emend to "nose"? BW, 4/30/10
21 "H" written over "h"
John came in with a potatoe which he had planted—& had it planted in his garden—"O mother I have found a potatoe all sprouted. I mean to put it in my garden." &c Even Helen is said to have found one—But next I came crying—that some body had got my potatoe—&c—&c—but it was restored to me as the youngest & (original) discoverer if not inventor of the potatoe—&c it grew in my garden—&c finally its crop was dug by myself & yielded a dinner for the family.

I was kicked down by a passing ox—had a chicken given me by Lidy—Hannah—&c peeped through the key hole at it—Caught an eel with John—Went to bed with new boots on—and after with cap—Rasselas given me. &c &c—

Asked P. Wheeler—"Who owns all the land?" Asked mother having got the medal for geography, "Is Boston in Concord"—If I had gone to Miss Wheeler a little longer should have received the chief prize book—"Henry Lord Mayor"—&c &c

Pm. up river

The snow is much deeper on the river than it was on an average 8 or 9 inches.
The cold weather has brought the crows & for the first time this winter I hear
them cawing amid the houses. I noticed
yesterday--from 3½ to 6 feet behind
or N. W. of a small elm a curve
in a drift answering to the tree--showing
how large an eddy it had produced--
%N. W.% {drawing} The whole surface of
the snow on fields & river is
little
composed now of flat rough--drifts--
like the surface of some rough slaty rocks.
Hardly anywhere is the ice visible now--
It is completely frozen at the Hub. bath.

bend now--a small strip of dark ice
thickly sprinkled with those rosettes of
crystals 2 or 3 inches in diameter-- This
surround by a broad border of yellowish
spew. The water has oozed out from the
thinnest part of the black ice & I see a
vapor curling up from it. There is
also much vapor in the air looking
toward the woods-- I go along the
edge of the Hub. meadow woods--the N
side where the snow is gathered, light
& up to my middle--shaking down
birds nests-- Returning just before
sunset, the few little patches of ice
look green as I go from the sun--
(which is in clouds) -- It is prob. a
constant phenomenon--in cold
weather when the ground is covered
with snow & the sun is low--morning
or evening--& you are looking from it.
I see birch scales (bird-like) on the snow
on the river more than 20 rods S of
the nearest and only birch--& trace them
north to it.

Jan 8th '56

P. m. to Walden--

The snow is about a foot or prob.
a little more--deep on a level--& consid-
erably drifted--but on the pond it is
not more than 5½ inches deep on an average,
being partly turned into snow ice by the sink-
ing of the ice--& perhaps partly blown off--

Many catbird nests about the pond
& in ap. one I see a snake's slough in-
terwoven. The leaves of red oak shrubs
are still quite (bloody) colored--
that I see, but one, %V 22nd inst% of the p-- pine cones are open--%V% I see
prising into the black fruit of the alder--
along the pond-side a single prob.
// lesser-redpoll--(?)%Y Yellowish breast--& distinct
white bar on wing. Monroe is fishing
there. As usual a great pickerel
had bitten & ran off--& was lost, he
supposed, among the brush by the
shore. He tells of an eel up the
N. Branch--that weighed 7 lbs--also
that Geo Melvin spearing one night

---
--speared a large owl (prob. cat owl) that
sat near by.

For a couple of days the cars have been
very much delayed by the snow-- & it is now
drifting somewhat. The fine dry snow is driving
over the fields like steam, if you look toward
the sun, giving a new form to the surface--
spoil the labor of the track-repairers--grad-
ually burying the rails-- The surface
of the snow on the pond is finely scored in many
places by the {oak} leaves which have been
blow across it-- They have furrowed deeper
than a mouse's track-- & might puzzle a
citizen. They are more frisky than a squirrel.

Many of the young oaks ap. not to
have lost any leaves yet-- They are so full
of them that they still sustain some mas-
ess of snow-- as if there were birds nests
for a core-- I see the great tracks
of white rabbits that have run & frisked
in the night along the pond side.

Jan. 9th '56

Clear Cold morning. Smiths thermometer 16°- //
ours 14°- at breakfasttime-- 6°- at 9 Am.
3º Pm to Beck Stows The thermometer
at 2º+ when I return at 4º 1/2 it is at
2º prob. it has been below zero for
the greater part of the day. I meet chop-
pers ap. coming home early on ac.
of the cold. I wade through the swamp
%2 feet V Jan 12th% where the snow lies light 18" inches deep
a few leaves of andromeda &c peeping out--I am a birds nesting.
on a level--"The mice have been out
& run over it. I see one large bush
of winter-berries--still quite showy though
somewhat discolored by the cold. The rabbits
have run in paths about the swamp.

Go now anywhere in the swamp & fear
The fisherman whom I saw on Walden last night will find his
no water. lines well frozen in this morning.

In passing through the deep cut on32
the New Bedford road--that a little
sand, which was pretty coarse, almost
gravel, had fallen from the bank--&
was blown over the snow, here & there-- The
surface of the snow was diversified
by those slight drifts, or perhaps cliffs
which are left a few inches high, (like
the fracture of slate rocks)--with a
waved outline-- {drawing} & all the sand
was collected in waving
lines just on the edge
of these little drifts in ridges may be
1/8 of an inch high-- This may help decide
how those drifts (?) or cliffs (?) are formed.
Yet when it blows & drifts again it presents a similar appearance.
// It has not been so cold throughout
the day before--this winter. I hear the
boots of passing traveller's squeak.
Jan 10

The weather has consid. moderated 2° at break-fast time—(It was 8° at 7 last evening)

but this has been the coldest night probably. //

You lie with your feet or legs curled

the sheets shining with frost about your mouth

up--waiting for morning”. Water33 left by

the stove is frozen thickly—& what you

sprinkle in bathing falls on the floor ice--

The house plants are all frozen--& soon

1ldroop & turn black. I look out on the roof of

a cottage covered a foot deep with snow,

& wondering how the poor children in its

garret--with their few rags--contrive to keep
151 mark the white smoke from its chimney whose contracted wreathes are soon dissipated
16 in this

stinging air--& think of the size of their wood pile
18 their toes warm—& again I try to realize
19 how they panted for a breath of cool air
20 those sultry nights last summer— Realize
21 it34 now if you can. Recall the hum of the
22 mosquito

It seems that the snow storm of Saturday
24 night was a remarkabl one reaching
25 many hundred miles along the coast.
26 It is said that some thousands passed the
27 night in cars--
28 The kitchen windows were magnificent
29 last night with their frost sheaves--sur-
30 passing any cut or ground glass.
31 %Remembering the walk of yesterday%
32 I love to wade & flounder through
33 the swamp now--these bitter cold days when
34 the snow lies deep on the ground-- And
I need travel but little way from the town
to get to a Nova Zembla Solitude—to wade through
the swamps—all snowed up—untracked by
man—{into} which the fine dry snow is
still drifting till it is even with the tops
of the water andromeda & half way up
the high blueberry bushes— I penetrate
to islets inaccessible in summer—my
feet slumping to the sphagnum far
out of sight beneath—where the
alder-berry glows yet—& the azalea
buds—& perchance a single tree—
sparrow or a chicadee lisps by my side—
Where there are few tracks even of wild
animals—perhaps only a mouse or
two have burrowed up by the side of
some twig & hopped away in straight
lines on the surface of the light deep
snow—as if too timid to delay—to another
hole by the side of another bush— And
a few rabbits have run in a path amid
the blueberries & alders about the edge of
the swamp— This is instead of a polar
sea expedition & going after Franklin.
There is but little life & but few objects
it is true— We are reduced to admire
buds even like the partridges—&
bark like the rabbits & mice.—the
great yellow & red forward looking

35 “there” altered from “they”
36 “little” written over “life”
37 “but” altered from “few”
buds of the azalea--the plump red ones
of the blueberry--& the fine sharp red
ones of the pan. andromeda--sleeping along
its stem-- The speckled black alder--
the rapid growing dog-wood--the pale
brown & cracked blueberry--&c Even a
little shining bud which lies sleeping behind
its twig & dreaming of spring--perhaps half
concealed by ice, is object enough-- I feel my-
self upborne on the andromeda bushes be-
neath the snow--as on a springy basket
work--then down I go up to my middle
in the deep but silent snow--which has
no sympathy with my mishap-- Beneath
the level of this snow how many sweet ber-
ries will be hanging next August?
%This for yesterday--the coldest day yet%
This freezing weather I see the pumps
dressed in mats & old clothes--or bundled
up in straw-- Fortuneate he who has placed
his cottage on the south side of some
high hill or some dense wood--&
not on the middle of the Great Fields where
there is no hill nor tree to shelter it--
There the winds have full sweep--& such
a day as yesterday--the house is but a
fence to stay the drifting snow-- Such
is the piercing wind--no man loiters between
his house & barn-- The road track
is soon obliterated & the path to the

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38 "A" written over "a"
39 "G" written over "g"
which leads round to the back of the house

front door which was° dug this morning

is filled up again & you can no

longer see the tracks of the master

of the house who only an hour ago

took refuge in some half° subterranean apart

tent there. You know only by an

occasional white weath of smoke from

his chimney—-which is at once snapped

up by the hungry air that he sits warm-

Studying the almanac to learn how long it is before Spring.

ing his wits there within—-"But his

neighbor who only half a mile off

has placed his house in the shelter of a

wood—-is digging out of a drift his pile

of roots & stumps, hauled from the swamp,
at which he regularly dulls his axe & saw,

reducing them to billets that will fit his stove.

With comparative safety & even comfort he labors

at this mine.

As for the other—-the windows give no sign

of inhabitants—-for they are frosted over

as if they were ground glass—-& the curtains

are down beside— The path is snowed up

& all tracks to & fro—no sound issues

from within. It remains only° to examine the

chimney’s nostrils—-I look long & sharp at

it & fancy that I see some smoke

against sky there—-but this deceptive—

for as we are accustomed to walk up

to an empty fire-place & imagine

°°"which was" cancelled in pencil

°°"half" inserted

°°"large blotch obscures "only" and "look" from the following line
that we feel some heat from it—so I have (—)

convinced myself that I saw smoke issuing
from the chimney of a house which had not
been inhabited for 20 years. I had so vivid
an idea of smoke curling up from a chimneys
top—that no painter could have matched my
imagination—It was as if the spirits of
the former inhabitants revisiting their old
haunts—were once more boiling a spiritual
kettle below.—A small whitish bluish cloud
almost instantly dissipated, as if the fire
burned with a very clear flame—or else the
postmeridian hours having arrived—it
were partially raked up, & the inhabitants
were taking their siesta.

Jan 11th 10th still

P. m. Worked on flower-press.

Jan 11th '56

P. m. to Walden.

Cold as the weather has been for some
days—it melting a little on the S side
of houses today for the first time for
quite a number of days—though the
9th ult was the coldest day thus
far—the therm. hardly going below zero
during the day—Yet whenever I have
been to Walden—as Jan 4th—8th & to
day—I have found much water
under the snow above the ice, though
there is but about 5 inches both snow
& water above the ice. Jan 4th was
the coldest day that I have been there--
& yet I slumped through the snow into
water--which evidently was prevented from
freezing at once by the snow-- I think
that you may find water on the ice
thus at any {time}--however cold--&
Prob. some of the overflow I noticed on the river
a few days ago was owing to the
however soon it may freeze-- weight of the snow as there
has been no thaw.
Obseved that the smooth sumachs about
the N side of the Wyman Meadow a great
had been visited by partridges &"many of
still crimson The same next day on the other side the pond.
the"berries were strown on the snow"-- There
they had eaten them perched on the twigs.
Elsewhere they had tracked the snow
from bush to bush--visiting almost every
bush & leaving their traces-- The mice
also had run from the base of one sumac
to that of another on all sides--though there
was no entrance to the ground there--prob--
they had climbed the stems for berries--
Most of the bunches now hang43 half broken
{drawing} %Sumachs%{drawing} %Sumachs% See Jan 30th
The lespedeza now a very
pale brown looks thus {drawing}
The sunsets I think are now particularly interesting— The colors of the west seem more than usually wan, perhaps by contrast with this simple snow clad earth over which we look & the clear cold sky—a sober but extensive redness—almost every night passing into a" dun— There is nothing to distract our attention from it.

Monroe who left his lines in Walden on the 8th cut them out today—but he got no fish—though all his bait were gone.

The January Sunsets.

To-day I burn the first stick of the wood which I bought & did not get from the river— What I have still left of wood the river wood— added to what of it I reserve for other uses, would last me a week longer.

Animals that live on such cheap food as buds & leaves & bark and wood—like partridges & rabbits & wild mice, never need apprehend a famine.

I have not done wondering at that voracity of the pickerel— 3 fresh perch & part of another in its maw—! If there are a thousand pickerel in the pond, & they eat but one perch or shiner meal a day— there go a thousand perch or shiners for you
out of this small pond—"One year would
require 365,000!—not distinguishing frogs—
Can it be so? The fishermen tell me
that when they catch the most, the fish are
fullest.

Mother reminds me that when we
lived at the Parkman House she lost
a ruff 1 1/2 yards long & with an edging
3 yards long to it which she had laid on
the grass to whiten—& looking for
it she saw a robin tugging at the
tape string of a stay on the line. He would
repeated-ly get it in its mouth—fly off &
be brought up when it got to the end of its
tether—Miss Ward thereupon tore a
linen handkerchief into strips & threw them
out—& the robin carried them all off. She
had no doubt that he took the ruff.

It is commonly said that fishes are
long lived on account of the equable tempera-
ture of their element—The temperature of the
body of Walden may perhaps range from
perhaps at bottom much less, or 53°
85°—down to 32°—While that of the air
ranges from 100°+ down to
28°—or 128° more than 2ce as much.
Yet how large a portion of animal
life becomes dormant or emigrates in the
winter—& on those that remain with us
there is an increase of fur & prob. of

"pond—" altered from "pond."
"repeatedly" and stray mark
down—corresponding to the increased cold—
If there is no corresponding thickening
of the integument or scales of fishes on
the approach of winter—they could seem
to enjoy no advantage over most land animals.
Beside their thick coats the rabbits &
partridges[4] seek some comparatively warm
& sheltered place in which to sleep—but
where do the fishes resort—They may sink
to the bottom—but it is scarcely so warm
there as at the bottom of a grey rabbit’s or
a fox’s burrow. Yet the fish is a
tender animal in respect to cold—Pull[49]
him out in the coldest weather—and he at
once becomes encased in ice & as stiff as
a stake—and a fox (?) stands at his ease on the
Frogs which perchance are equally tender, and must (?) come to the air occasionally,
are therefore
ice devouring him. “They may be said to live
compelled go into[50] the mud & become dormant.
then in a southern climate—Even the
tough mud turtle possesses a southern constitution.
—He would snap in vain—and soon cease snapping
at the N. W. wind when the thermometer is
at 25° below zero—Wild mice & spiders
& snow fleas would be his superiors

Jan 12th[51] 12th
Moderating though at zero at 9 Am
Pm to Andromeda swamps
Measuring snow—It is about a fortnight
since we had about a foot of snow fall
on 2 or 3 inches which was firmly crusted--
a week since about 6 inches fell upon the last--I guess at these depths--
& we have had clear cold weather ever since
I carry a 4 foot stick marked in 52 inches--
sticking striking it down as far as it
will go at every 10th step--first
beginning in the first field west of the
RR cause way 4 to 6 rods from the RR--
Open fields
& walking par. with the RR-- N to S.

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52 "in" altered from "on"
53 vertical pencil line running down the page separates this list from the one to the right
54 Later revision: following this entry and extending down from it vertically in pencil, Thoreau writes: "or 9 1/2+ W of RR / & 10 1/2+ E " " "

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Other things being equal:
the snow should be deeper in woods than in open fields because the trunks of trees may be more than balanced by what is dissipated on the branches.
Then Sproutland between RR & Andromeda Pond down hill toward the W.

15 The 1st Andromeda Swamp from E to W

11 Squirrel Wood

17 The result of

16 measures on

15 Walden--8 or 18 measuring

13 acres of which did not

14 freeze till during" the

16 snow of a fortnight

15 ago--gave 5 1/6

14

12 from S

9 to N par

10

12

18

10

10

12

8

9

11

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12

25 4/5

3 inches of the top

1 3 or 4 inches higher there than

19 say 10 % (or 12 %)

say 10 % (or 12 %)

75 years old

"during" altered from "The"

curved line across page separates this list from the list at the right
Prob. there is less snow in the woods than in open land—though it may lie high & light.

In the swamp the dull red leaves of the andromeda were just peeping out—the snow lying not quite level but with gentle swells about the highest clumps of bushes—

drawing: Deep as the snow was, it was no harder but perhaps easier walking there—than in summer. It would not much impede a mouse running about below.

Though the snow is only 10 inches deep on a level farmers affirm that it is 2 feet deep—confidently—

Jan 13th

Sunrise—a heavy lodging snow almost rain—has been falling how long—coming from the eastward—The weather comparatively warm but windy—It will prob. turn to rain.

It sticks to the sides of the houses.

Took to pieces a pensile nest which I found the 11th ult on the south shore of Walden on an oak sapling (red or black) about 15 feet from the ground. Though small it measures 3 inches by 3 in the extreme & was hung between horizontal twigs or in a fork forming about a right angle—the 3d side being regularly rounded without any very stiff material. The twigs extended 2 or 3 inches beyond the nest--

57 3d: altered from “2d”
The bulk of it is composed of fine shreds
or fibres—pretty long (say 3 to 6 inches) of ap.
in oak (?) bark, judging from some scrapes
of the epidermis adhering. It looks at first sight
like sedge or grass—The bottom, which I ac-
cidently broke off & disturbed the arrangement of—
was composed of this, & white & pitch pine needles—
& little twigs about the same size & form rough with little
leaf stalks or feet. Yes they are
bud shoulders—(prob hemlock (?)”) & also strips & curls
of Paper birch epidermis—& some hornet or {other} wasp
nest used like the last. I mention the most abundant
material first. Prob. the needles & twigs were used
perhaps bent by bird
on ac. of their (curved form &) elasticity to give shape
to the bottom. The sides, which were not so
thick, were composed of bark shreds—paper
birch & hornet nest (the 2 latter chiefly outside,
agglutinated
prob—to bind & conceal & keep out the wind)—together
But most pains was taken with the thin edge
& for 3/4 of an inch down—where beside the
bark fibres—birch paper—& hornets nest—some silky
reddish brown, and also some white fiber, was used to
bind all with—almost spun into threads & passed
over the twigs & agglutinated to them—or over
the bark edge—The shreds of birch paper were smaller
there & the hornets nest looked as if it had been
reduced to a pulp by the bird & spread very thinly
here & there over all, mixed with the brown silk—
This last looked like cow's hair—but as I found
a piece of a small brown cocoon though a
(NB some of the same on my red-eye's nest)
little paler, I suspect it was from that”—The
white may have been from a cocoon—or else
nest
vegetable silk. Prob a vireo’s”may be red-eye's.
In our workshops we pride ourselves on discovering a use for what had previously been regarded as waste—But how partial & accidental our economy compared with Natures. In nature nothing is wasted—every decayed leaf & twig & fibre is only the better fitted to serve in some other department—& all at last are gathered in her compost heap—What a wonderful genius it is that leads the vireo to select the tough fibres of the inner bark—instead of the more brittle grasses for its basket—the elastic pine needles & twigs curved as they dried to give it form—and as I suppose &c &c the silk of cocoons to bind it together with. I suspect that extensive use is made of these abandoned cocoons by the birds—& they if anybody—know where to find at least them. There were seven materials used in constructing this nest & the bird visited as many distinct localities many times—always with the purpose or design to find some particular one of these materials—as much as if it had said to itself—now I will go & get some old hornet’s nest from one of those that I saw last fall down in the maple swamp (—perhaps thrust my bill into them)—or some silk

51“been” inserted
from those cocoons I saw this morning.

It turned to rain before noon

4 or 5 inches of very moist snow or sleet having fallen---

Jan 14-- Sunrise-- Snows again

I think that you can best tell from what side the storm came by observing on which side of the trees the snow is plastered.

The snow crows are flitting about the houses & alight upon the elms.

After snowing an inch or 2 it cleared up at night. Boys &c go about straddling the fences, on the crust%

Jan 15

A fine clear winter day--

P. m. to hemlocks on the crust. slumping in every now & then. A bright day--not cold--I can comfortably walk--without gloves--yet my shadow is a most celestial blue-- This only require a clear bright day & snow-clad earth--not great cold. I cross the river on the crust--with some hesitation-- The snow appears considerably deeper than the 12th ult--may be 4 or 5 inches deeper--& the river is indicated by a mere depression in it {drawing} or {drawing}

In the street not only fences but trees are obviously shortened as by a flood-- You are sensible that you are walking
at a level a foot or more above
the usual one—Seeing the tracks where
a leaf had blown along & then tacked
& finally doubled & returned on its trail
I thought it must be the track of some
creature new to me—

I find under the hemlocks in & upon the snow, ap.
--brought down by the storm, an abundance of those
little dead hemlock twigs described on the 13th ult--
They are remarkably slender & without stiffness like
the fir (& I think spruce) twigs--& this gives the
hemlock its peculiar grace-- These are not yet curved
much--& perhaps they got that form from being
placed in the nest.

Jan 16th "56

8 Am down RR--measuring snow--
having had one bright day since the last flake
fell--but as there was a crust which would
bear yesterday--(as today) it cannot have settled
much. The last storms have been Easterly
& north easterly.

Jan 17th "56

8 Am down RR--measuring snow--
having had one bright day since the last flake
fell--but as there was a crust which would
bear yesterday--(as today) it cannot have settled
much. The last storms have been Easterly
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having had one bright day since the last flake
fell--but as there was a crust which would
bear yesterday--(as today) it cannot have settled
much. The last storms have been Easterly
& north easterly.
Geo. Prescott guessed it was 2 1/2 feet on an av.!!

Trillium Woods
through mid. as before
18 Between woods & RR—N. W. the av. of
18 12 measures was 18 1/2+
12 Why so much (5 1/2 inches) more
18 now in the woods than on the 12th—
17 as comp. with open fields? Was the
20 driving snow caught in a small wood?
19 or did it settle less in the rain there?
13 or since the snow on account of bushes?
20
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21 I hear flying over—(& see)
17 I291(see 17) a snow bunting—a clear loud
tcheep or tcheep, sometimes rapidly
trilled or quavered, calling its mates.

With this snow the fences are scarcely an
obstruction to the traveller—he easily steps over them.
Often they are buried. I suspect it is 2 1/2
feet deep in Andromeda swamp now.
The snow is much deeper in yards—roads
& all small enclosures—than in broad
fields.

Jan 17th
Henry Shattuck tells me that the
quails come almost every day & get some saba
beans within 2 or 3 rods of his house. Some
which he neglected to gather. Prob. the deep
snow drives them to it.
Jan 18th '56

J. B. Moore--says that he has caught
20 lbs of pickerel in Walden in one winter
&--and had had nearly as good luck 5 or
6 times the same winter there; not less than
10 lbs at one time-- Suppose then that
he has caught 50 pickerel there in
one winter--& all others the same winter
150--you have 200 caught in one
winter. I suspect there are as many as 2000
5 men caught 333 lbs in a pond in Eastham in
that will weigh a pound. one day this winter say the papers--largest
5 1/2 lbs

Analysed a nest which I found Jan 7th
in an upright fork of a red maple sapling
on the edge of Hub's swamp wood N side near--
the deep grooves made by the twigs on each side
river--about 8 feet from the ground-- It may
be a yellowbird's--

Extreme breadth outside 3 inches--inside 1 1/2. Extreme
height outside 3 inches--inside 1 5/8 sides 3/4 inch thick.

It is composed of 7--principal materials--
I name the most abundant 1st--I mean most abundant when
compressed.)

 silvery
Small compact lengths of pappus about 7/8 inch long,
perhaps of erechthites), 1/2 inch deep & nearly pure, a very
warm bed--chiefly concealed, just beneath the lining in-
side.

Slender catkins, often with the buds & twig ends (of perhaps
hazel) throughout the whole bottom & sides--making
it thick but open & light, mixed with

milkweed silk i.e. fibres like flax, but white, %also
in sides & rim--some of it almost thread like--white with
some of the dark epidermis-- From the pods? No, I am
about certain, from comparison, that it is the fibres of the bark of
the stem--V 19th inst.

---
60 then: altered from "than"
61 200: altered from "150"

292
Thin strips of grape vine bark—chiefly in the rim & sides for 3/4 inch down—& here & there throughout—
Wads of ap brown fern wool mixed with the last

Some finer pale brown & thinner shreds of bark—directly underneath pappus, (mixed with some short shreds of grape bark) ap. not grape— If this were added to the grape— These materials would be not far from equally abundant.

Some very fine pale brown wiry fibres for a lining just above the pappus & somewhat mixed with it. Perhaps for coolness being springy.

Directly beneath the pappus was considerable %{other}%62 shreds of grape & the other Bark—short & broken—
In the rim & sides some cotton ravelings—& some short shreds of fish line or crow fence—A red maple leaf within the bottom—a kernel of corn just under the lining of fibres—(perhaps dropt by a crow or black-bird or jay—or squirrel while the nest was building.) A few short length of stubble or weed stems in the bottom & sides A very little brown wool“ like ap. that in the nest last described—which may be brown fern wool. The milkweed—& fern wool conspicuous without the rim & about the twigs.

I was most struck by that mass of pure pappus under the inside lining.

Pm. to Walden—
to learn the temperature of the water— The snow is so deep at present in the streets that it is very difficult turning out, & there are cradle holes between this & the P. O.“ The side walks being

---

62 faint pencil inserted on line
63 “Bark” altered from “bark”
64 wool: altered from “wood”
65 P. O.: altered from “p. o.”
blotted out—the street like a woodmans path
--looks like a hundred miles up country.

I see where children have for some
days come to school across the fields
on the crust—from Abiel Wheeler's to
the RR crossing. I see their tracks in
the slight snow upon the crust which fell
the 14th ult. They save a great distance &
enjoy the novelty.

This is a very mild melting winter day—but
clear & bright—Yet I see the blue shadows
on the snow at Walden., The snow lies very
level there about 10 inches deep & for the
most part bears me as I go across
with my hatchet— I think I never saw
a more elysian blue than my shadow
I am turned into a tall blue Persian
from my cap to my boots, such as
no mortal dye can produce—with an
amethystine hatchet in my hand.

I am in raptures at my own shadow—
of
What if the substance were—as ethereal
a nature. Our very shadows are no
longer black—but a celestial blue,
This has nothing to do with cold methinks,
but the sun must not be too low.

I cleared a little space in
which was 9 to 10 inches deep
the snow over the deepest part of the
pond & cut through the ice—
which was about 7 inches thick only
the first 4 inches perhaps—snow ice the other
3 clear. The moment I reached the water
it gushed up & overflowed the ice driving
in the snow
me out this yard—"where it stood at
last 2 1/2 inches deep above the ice—

The thermometer indicated 33 1/2° at top
& 34 2/3 when drawn up rapidly from 30 feet
beneath. So *it* is not much warmer
beneath.

Goodwin was fishing there—He says
he once caught 50 lbs of pickerel
here in 2 days—he* thought 25 or 30
fishes. Thought that there were many
hundred caught here in a winter—
that nearly all were females.

Observed some of those little hard galls
on the high blueberry pecked or eaten into by
some bird (or possibly mouse) for the little white
grubs which lie curled up in them. What
entomologists the birds are—Most men
do not suspect that there are grubs in them.
& how secure the latter seem under these
thick dry shells! Yet there is no secret
but it is confided to some one.

Jan 19th '56

Another bright winter day—Pm to
river—to get some Water-asclepias—to see
what birds nests are made of—

---

*actually underlined three times

* "he" altered from "so"
The only open place in the river between Hubbard bridge & I have no doubt Lee's bridge, as I learned in my walks the next day. I have no doubt Lee's bridge, as I learned in my walks the next day. Hunts bridge & the RR bridge is a

small space against Merricks pasture just
As usual just below a curve in shallow water, with
below the Rock. the added force of the assabet.

The willow osiers of last years growth--
on the pollards in Shattuck's row--Merrick's
Pasture--from 4 to 7 feet long--are
perhaps as bright as in the spring--
the lower half yellow the upper red.
but they are a little shrivelled in the bark.

Measured again the great elm in front of Charles Davis' on the Boston
road--which he is having cut down--
The chopper White has taken off most
tried his axe of the limbs & just begun on the foot
of the tree-- He will prob. fall it on
Monday, or the 21st. At the smallest
place between the ground and the
limbs 7 feet from the ground, it
is 15 ft & 2 inches in circumference
at 1 foot from the ground on the lowest
side--23 9/12. White is to have
10 dollars for taking off the necessary
limbs & cutting it down merely--
help being found him. (He) began on
Wednesday-- Davis & the neighbors
were much alarmed by the creaking
in the late storms--for fear it would
fall on their roofs. It stands 2 or 3 feet
into Davis' yard.

---

note from Lorna Mack: This may be the elm Thoreau replaced with the existing elm in front of the Art Assoc. (Legend has it)
As I came home through the village
at 8 1/4 Pm by a bright moon—
light—the moon nearly full & not more
than 18° from the zenith—
The wind NW but not strong & the
air pretty cold— I saw the melon rind
arrangement of the clouds on a
larger scale & more distinct than
ever before. There were 8 or 10 courses
of clouds—so broad that with equal
intervals of blue sky they occupied the
whole width of the heavens—broad
white scirrho-stratus in perfectly regular
curves from west to east across
the whole sky— The 4 middle ones oc-
cupying the greater part of the visible
cope were particularly distinct.
They were all as regularly arranged
as the lines on a melon & with
much straighter sides as if cut with
a knife— I hear that it attracted
the attention of those who were abroad
at 7 Pm & now at 9 Pm it is
scarcely less remarkable— On one
N or S
side of the heavens the intervals of blue
look almost black by contrast— There
is now, at 9, a strong wind from the
N. W. Why do these bars
extend E & W— Is it the influence of

70 “by” altered from “at”
71 “of” altered from “at”
the sun--which set so long ago?
--or of the rotation of the earth--? The
bars which I notice so often morning & evening
--are ap. connected with the sun at those
periods.

In Oliver N. Bacon's Hist. of Natick p 235
it is said that of Phaenogamos plants "Up-
wards of 800 species were collected from Natick
soil in 3 years' time, by a single individual."
I suspect it was Bacon the Surveyor. Theres is
given a list of those which are rare in
that vicinity--among them are the
following which I do not know to grow
%found since%    %prob here%
here--  Actaea rubra  Asclepias tuberosa--
%found since%   %found since%
Alopecurus pratensis?--Corallorhiza odontorhiza (?)
Nutt.--Drosera filiformis Nutt.--Ledum lati-
folium"--Malaxis Lilifolia W. (What in Grey?)--
%found since%  %found since%
Sagina procumbens?.

Among those rare there but common here are--
Calla Virginica--Glechoma Hederacea--Iris
prismatica--Lycoreus Virginicus--Mikania Scandens
Prunus borealis--Rhodora Canadensis--Xyris
aquatica--Zizania aquatica.

They, as well as we, have Equisetum
hyemale--Kalmia glauca--Liatris scariosa
--Ulmus fulva--Linnaea Borealis &c &c Pyrola
maculata.

Bacon quotes White who quotes Old Col. memorial--ac--
of man. & customs &c of our ancestors.

72“Actaea rubra” cancelled in pencil
73“Alopecurus pratensis” cancelled in pencil and followed by stray mark
74“Ledum latifolium” cancelled in pencil
75“Sagina procumbens” cancelled in pencil
76 “Borealis” altered from “borealis”
77 “Old” altered from “old”
Bacon says that the finest elm
in Natick--stands in front of Thomas
F Hammond's house & was set out "about
the year 1760."-- "The trunk, 5 feet from the
ground, measures 15 1/2 feet."

Observed within the material of a robins
nest this [redacted] a cherry stone.

Gathered some [redacted] dry water milkweed
stems to compare with the materials of the birds nest
of the 18th ult. The bird used--I am almost
certain--the fibres of the bark of the stem", just
beneath the epidermis--only the bird's is older
& more [redacted] fuzzy & finer like worn twine or string

The fibres & bark have otherwise the same ap-
pearance under the microscope--I stripped
off some bark about 1/16 of an inch wide &
or 12
6 inches long--& separating 10 fibres from
the epidermis rolled it in my fingers making
a thread about the ordinary size. This I could
not break by direct pulling & no man could.
I doubt if a thread of flax or hemp of the same
size could be made so strong. What an
admirable material for the Ind. fish line!
I can easily get much longer fibres--I
hold a piece of the dead weed in my hands--
strip off a narrow shred of the bark before
my neighbor's eyes & separate a few fibres as
fine as a hair roll them in my fingers
& offer him the thread--to try its strength.
He is surprised & mortified to find that

71 "some" altered from "a"
79 "shred" altered from "shread"
he cannot break it. Prob. both the Ind.
& the bird discovered for themselves this same
(so to call it) wild hemp--

The corresponding fibres of the mikania--
seem not so divisible--become not so fine
& {frozy}-- Though somewhat similar--are not
nearly so strong. I have a hang-bird's nest
from the river side made almost entirely of
this in narrow shreds or strips with the epidermis
on wound round & round the twigs & woven
into a basket-- That is this bird has used per-
haps the strongest fiber which the 2nd fields afforded--
& which most civilized men have not detected.

Knocked down the bottom of that sum-
mer yel-- bird's nest (made on the oak at
the island last summer)-- it is chiefly of fern
some
wool & also ap"sheeps wool (?) with a fine green
moss (ap that which grows on button bushes)
& some milkweed fibre
in mixed"& all very firmly agglutinated together--
Some shreds of grape vine bark about it.

Do not know what portion of the whole nest
it is. Jan 20th 56

In my experience I have found nothing
so truly impoverishing as what is called
wealth--i.e. the command of greater
means than you had before--possessed--
--though comparitively few & slight still--
for you thus inevitably acquire a
more expensive habit of living--& even

--- "which the" altered from "which he"
the very same necessaries & comforts cost you
more than they once did. Instead of
gaining you have lost some independence--
And if your income should be suddenly
lessened--you would find yourself poor
though possessed of the same means which
once made you rich. Within the last 5
years I have had the command of a
little more money than in the previous
for I have sold some books & some lectures--
5 years--^ Yet I have not been a whit
better fed or clothed or warmed or sheltered
--not a whit richer, except that
I have been less concerned about my living--
but perhaps my life has been the less serious
for it--& to balance it I feel now that
there is a possibility of failure-- Who knows
but I may come upon the town, if +
(---) as if likely the public want no
more of my books--or lectures (which
Before I was much likelier to take the town upon my shoulders
last is already the case).^ That is I have
lost some of my independence on them--
--when they would say that I had gained
an independence. If you wish to give
a man a sense of poverty--give him
a thousand dollars-- The next hundred
dollars he gets will not be worth more
than ten that he used to get. Have pity
on him--with{--}hold your gifts.
P. m. Up river to Hollowell Place--

I see the blue between the cakes of snow
cast out in making a path, in the
triangular recesses (drawing), though
it is pretty cold--but the sky is complete-
ly overcast. It is now good walking
on the River--for though there has
been no thaw since the snow came--a great
part of it has been converted into snow
ice by sinking the old ice beneath the water--
& the crust of the rest is stronger than
in the fields because the snow is so shallow
& has been so moist. The river is thus
an advantage as a highway not only in
summer--& when the ice is bare in the
winter--but even when the snow lies
very deep in the fields. It is invaluable
to the walker--being now, not only the
most interesting, but excepting the
narrow & unpleasant track in the high-
ways, the only practicable route. The
snow never lies so deep over it as else-
where--& if deep it sinks the ice & is soon
converted into snow ice to a great extent
beside being blown out of the river valley.
Neither is it drifted here. Here where
you cannot walk at all in the summer
is better walking than elsewhere in
the winter--But what a different
aspect the river's brim now from what
it wears in summer! I do not this
moment hear an insect hum--nor see
a bird--nor a flower. That museum of
animal & vegetable life--a meadow--is now
reduced to uniform level of white snow--
with only half a dozen kinds of shrubs & weeds
rising here & there above it.

Nut Meadow Brook is open on the river
meadow--but not into the river-- It is
short -- in the middle
remarkable that--the strip below the
Island--(v. yesterday) should be the only
open place between Hunt's Bridge & Hubbards
at least--prob as far as Lee's-- The river
has been frozen solidly ever since the 7th
ult--& that small open strip of yesterday
% in middle
(about 1 rod wide %) wasprob. not more
than a day or 2 old. It is very rarely
closed I suspect--in all places more than
2 weeks at a time. Ere long it wears its way
up to the light & its blue artery again
% here & there%
appears %%. In one place close to the river
Where the forgetmenot grows, that
springy place under the bank just above
the RR bridge the snow is quite melted &
the bare ground & flattened weeds exposed
for 4 or 5 feet.

Broke open a frozen nest of mud & stubble in
a black willow--prob. a robin's--in which

---

1 “summer!” altered from “summer--”
2 “2 weeks” altered from “a week”; stray mark above line
were a snail (?) shell {drawing} & a skunk cabbage seed? Were they not left\textsuperscript{53} there by a mouse--? or could they have been taken up with the mud-- They were somewhat %A downy woodpecker--without red on head--the in the mud. only bird seen in this nook--I stand within 12 feet--%
The arrangement of the clouds last night attracted attention in various parts of the town.

A prob. kingbird's nest--on a small horizontal branch of a young Swamp white oak--amid the twigs about 10 feet from ground-- (This tree is very scraggy--has numerous short twigs at various angles with the branches--making it unpleasant to climb-- & affording support to bird's nests--)-- The nest is round running to rather a sharp point on one side beneath-- Extreme diam. outside 4 1/2 to 5 inch within 3 inch--depth within 2 inch without 4 or more. The principal materials are 10-- In the order of their abundance thus

1\textsuperscript{st} reddish & grey twigs some a foot & more in length which are cranberry vines--with now & then a leaf on prob-- such as were torn up by the rakers--some are as big round as a knitting needle--& would be taken for a larger bush-- These make the stiff mass of the outside above & the rim.

2\textsuperscript{nd} Woody roots rather coarser intermixed from water side shrubs prob. some are from cranberry vines-- These are mixed with the last & with the bottom.

3\textsuperscript{d} Softer & rather smaller roots & root fibres of herbaceous plants--mixed with the last & a little further inward.

\textsuperscript{53} “left” altered from “cast”
For the harshest are always most external.

4th (Still to confine myself to the order of abundance)
Withered floweres & shoots bits of the gray downy
stems of the fragrant everlasting-- These more
or less compacted & an agglutinated from the
mass of the solid bottom--& more loose with the
stems run down to a point on one side the bottom.

5 What I think is the fibrous growth of a willow
dark-colored
moss-like [drawing] with a wiry^hair-like
stem (possibly it is a moss) This with or without
the tuft is the lining & lies contiguous in the sides & bottom.

6 What looks like brown decayed leaves & confervae from
the dried bottom of the river side--mixed with the--everlasting
tops internally in the solid bottom.

7 Some finer brown root fibres chiefly bet the lining of
no 6 & hair & the coarser fibres of no 3--

8 A dozen whitish cocoons mixed with the everlasting
tops & dangling about the bottom peak externally--
also 8 or 10 very minute cocoons mixed
a few within the solid bottom. with these--attached in a cluster to the top of
an everlasting

9 A few black much branched roots (?) (perhaps? & some
urticularia from the dried bottom of river) mixed with
nos 2 & 3.

10 Some horse hair--together with no 5, forming the
lining.

There are also with the cocoons & everlasting
tops externally one or 2 cotton grass heads--one
small white feather--& a little greenish fuscous
moss from the button bush--& in the bottom a small
shred of grape vine bark.

---

*T writes a caption to drawing: "used instead of hair"
Jan 21st 56

4 men, cutting at once, began to fell the
big elm at 10 Am--went to dinner at
12, & got through at 2 1/2 Pm.

They used a block & tackle with 5 falls
drawn by
fastened to the base of a buttonwood, & a
horse, to pull it over the right way--
one said he pulled 20 turns
So it fell without harm down the
road. I measured it at 3 pm just
after the top had been cut off--

It was 15 feet to the first crotch. At the most up right & prob. highest limb
75 feet was cut off, & measured 27 inches
in circumference-- As near as I could
tell from the twigs on the snow, & what
the choppers said who had just removed the
top--it was about 108 feet high.

At 15 feet from the stump it
divided into 2 parts, about an equal size
One was decayed and broken in the
also
(which proved hollow)
fall, being undermost, the other
at its origin was 11 4/12 ft in circum-
(The whole tree directly beneath this crotch was 19 3/12 round)
ference. This same limb branched again
at 36 8/12 from the stump-- these measured just
beneath the crotch 14 10/12 in circ.

At the ground the stump measured 8 4/12
one way--8 3/12 another--7 1/2 another.
It was solid quite through at but--
(excepting 3 inches in middle) though some--
what decayed within--I could count

---

85 "block" altered from "black"
86 "wood" inserted
87 "At" altered from "at"
88 27: altered from "17"
89 as: altered from "I"
51 line connected caret to interlined text
This is wrong pretty well 105 rings to which add 10 more

for the hollow & you have 115. V. 26 inst I could not count the decayed part there well-- op. the\textsuperscript{51}
There was a current bush at the first
crotch--\textsuperscript{end} in a large hole at that making 3 there
height--where prob. a limb once broke off\textsuperscript{4} & also
\textsuperscript{10}--\textsuperscript{a} great many stones bigger than a
hen's egg--prob cast in by the boys.
part of
There was also\textsuperscript{12} an old brick with some clay

30 or 40 years within the tree at the stump completely over grown & cut through
by the axe. I judged that there were supposing one main limb sound
at least 7 cords then in the road\textsuperscript{4}--\textsuperscript{4}
Davis thought that the pile in the yard from\textsuperscript{2} the limbs taken off last week contained
4 more-- He said that there were
some flying squirrels within & upon it when they were taking off the limbs.

There was scarcely any hollowness to be discovered. It had grown
very rapidly the first 50 years or could so. You see where there had once
been deep clefts between different portions of the trunk at the stump--but the
tree had afterward united & over grown them leaving some bark within the wood.
In some places the trunk as it lay on the ground--(though flatwise) was as
\textsuperscript{36} as higher than the tallest man's head.

This tree stood directly under the hill

\textsuperscript{51}"op. the" above cancelled "at"
\textsuperscript{52} "from" altered from "out"
which is some 60 feet high—the old burying hill continued—S of where the Flag staff was planted when the British marched into town—This tree must have been some 50 yrs old & quite sizeable then. White, when taking off the limbs—said that he could see all over Sleepy Hollow, byond the hill. There were several great wens on the trunk—a foot in diameter & nearly as much in height. The tree was so sound I think it might have lived 50 yrs longer—But Mrs Davis said that she would not like to spend another such a week as the last before it was cut down. The 2 main limbs proved hollow. reached over the house was cracked. Jan 22nd 56

Tracks & inferences—this & the next day—
The Walden road is nearly full of snow still

Miss Minot talks of cutting down the oaks about her house for fuel because she cannot get her wood sledded home on

52"S" written over “s”
54 “road” altered from “pond”
account of the depth of the snow—though
it lies all cut there—James at
R. W. E's waters his cows at the door
because the brook is frozen—

If you wish to know whether a tree is
hollow—or has a hole in it, ask the
squirrels—They know as well as whether
they have a home or not. Yet a
man lives under it all his life without
knowing & the chopper must fairly
cut it up before he can tell. If there
is a cleft in it he is pretty sure to
find some nut shell or materials of
a birds nest left in it.

At Bristers's Spring I see where a squirrel
also has been to the spring & sat on a low
alder limb & eaten a hazel-nut—Where
does he find a sound hazel nut now—? Has
them in a hollow tree.

%See tracks of fishermen & pickerel v. forward—%
At Walden, near my old residence, I
find that since I was here on the 11th ult—
apparently within a day or two some
gray or red squirrel or squirrels—
have been {feeding} on the p-pine
cones extensively. The snow under one
young pine is covered quite thick
with the scales they have dropt while
{feeding over-head—} I count the
cores of 34 cones on the snow there

---

55 “B” written over “b”
& that is not all—Under another
pine there are more than 20--& a well
worn track from this to a fence post
3 rods distant under which are the cores
of 8 cones and a corresponding {amount}
of scales. The track is like a very small
rabbit. {drawing} --going up the page. They have
gnawed off the conèes which were perfectly
closed. I see where one has taken one
of a pair & left the other partly off—He
had first sheared off the needles that
were in the way & then gnawed off the
sides or cheeks of the twig to come
at the stem of the cone—which, as
usual was cut by successive cuts as
with a knife while bending it. One or
%prob died last summer when little over a year old%
two small perhaps dead—%^%certainly ( )
unripe ones were taken off & left unopened.

I find that many of those young
pines are now full of unopened cones
which will be two years old next summer--
& these the squirrel now eats. There are
{drawing} also some of them
open, perhaps on the
most thrifty twigs.

F. Morton hears today from
Plymouth that 3 men have just caught
in Sandy Pond in Plymouth about 200

---

56"the" written over "these"

57Two captions, or labels, extend down from the drawing at two distinct points: "cones full grown / eaten by squirrels" and "cones big as / filberts".

58"t" is incompletely formed
lbs of pickerel in 2 days.

Some body has been fishing in the pond this
morning and the water in the holes is beginning
to freeze—I see the track of a crow

V. 24 inst

drawing} the toes as
usual less spread——& the middle one
making a more curved —— furrow in the
snow than the partridge— as if they
%The inner ——— toe a little the nearest to the mid. one——% v Feb 1st
moved more unstably recovering their
% feeble on their feet%
balance.%%^% This track goes to every
hole but one or 2 out of a dozen
(directly from hole to hole sometimes flying a little)
^% also to an apple core on the snow—

I am pretty sure that this bird was
after the bait which is usually dropt
E. Garfield says they come reg. to his holes for bait as soon as he
has left
on the ice or in the hole—— So if the
pickerel are not fed it is—— It had even
visited, on the wing, a hole now
frozen & snowed up which I made
far from this in the middle of
the pond several days since——as
I discovered by its droppings—— The
same kind that it had left about
the first holes——

I was surprised on breaking with
pickerel
my foot the ice in a^hole near the
shore—evidently frozen only last night
to see the water rise at once 1/2 inch above
it. Why should the ice be still sinking——

Is it growing more solid & heavier?
Most were not aware of the size of the great elm till it was cut down--I surprised some a few days ago by saying that when its trunk should lie prostrate it would be higher than the head of the tallest man in the town--& that 2 (such) trunks could not stand in the chamber we were then in--there would be ample room for--which was 15 feet across--that^that double bed-stead on the trunk--nay that one whole the very dinner table we %at% that we were sitting%with our whole party of 7,8 chairs & all around it might be ca set there. (In the de’yayed part of the but end there were curious fine black lines, giving it a geographical look here & there-- {drawing} half a dozen inches long--sometimes following the line of the rings--the boundary of a part which had reached a certain stage of decay. The force on the pullies broke off more than a foot in width in the middle of the tree--much decayed.

I have attended the felling & so to speak the funeral of this old citizen of the town-- I who commonly do not attend funerals --as it became me to do--I was the chief if not the only mourner there-- I have taken the measure of its grandeur-- have spoken a few words of eulogy at
his grave—but there remembering the nil
maxim nil—de mortuis nisi bonum—
in this case (magnum)
"but there were only the choppers & the passers by to hear me— Further the town was not represented—the Fathers of the town—the select men—the clergy were not there—but I have not known a fitter occasion for a sermon of late.
Travellers whose journey was for a short time delayed by its prostrate body were forced to pay it some attention & respect—"But the axe-boys had climbed upon it like ants & commenced chipping at it before it had There was a man already bargaining for some part fairly ceased groaning". How have the mighty fallen! Its history extends back over more than half the whole history of the town. Since its kindred could not conveniently attend—I attended. Methinks its fall marks an epoch in the History of the town— It has passed away together with the clergy of the old school—& the which used to rattle beneath it stage-coach—" Its virtue was that it steadily grew & expanded from year to year to the very last. On an average 5/7 of an inch in a year— (near the ground) How much of old Concord falls with it. The town-clerk will not chronicle its fall— I will—for it is of greater moment to the town than to that of many

99 "respect—" altered from "respect."
100 "History" altered from "history"
101 "than" altered from "that"
a human inhabitant would be-- Another
%Instead of erecting a monument to it--we take all possible pains%
%link that bound us to the past is broken.
%to obliterate its stump--the only monument of a tree which is commonly allowed to%
How much of Old Concord was cut away
%stand%
with it! A few such elms would along%e%
constitute a town ship-- They might claim
to send a representative to102 the General Court
to look after their interests--if a fit one
could be found-- a native American103 one
in a true & worthy sense--with Catholic
principles. Our town has lost some of its
venerableness-- No longer will our eyes
like a vast corinthian column by the way-side
rest on its massive grey trunk"--no longer
shall we walk in the shade of its lofty
spreading dome-- It is as if you had laid
the axe at the feet of some venerable
Buckley or Ripley-- You have laid the
axe--you have made fast your tackle
to one of the king-posts of the town.
I feel the whole building wracked by it.
Is it not sacrilege to cut down the tree which
has so long looked104 over Concord beneficently?
Supposing the first 15 feet to average 6 feet
in Diameter-- They would contain more than 3
of wood105
of wood105
of wood105
% stood%
cords & a foot"; but prob.--not more than 3 cords.
With104 what feelings should not the citizens
hear that the biggest tree in the town has
fallen? A traveller passed107 through the town
& saw the inhabitants cutting it up--
%without regret%
The tracks of the partridges by the sumachs
made before the 11th are perhaps more prominent

102 "to" altered from "--"
103 "American" altered from "american"
104 "looked" altered from "& so"
105 "wood;" altered from "wood--"
106 "With" written over "Wh"
107 "passed" altered from "past"
now than ever—for they have consolidated the snow—
under them so that as it settled it has left
them alto relievo—They look like broad chains
extending straight far over the snow.

I brought home & examined some of the droppings
of the crow mentioned 4 ps back—After long
with a microscope
study I discovered that they consisted of the
other %ges%
seeds & skins &"ind%stible% parts of red-cedar
I detected the imbricated scale like leaves of a
%some%
berry stem & then the seeds—the now
berries and%barberries—% perhaps something more—
black skins of the cedar berries—but easily the large seeds of the barberries
& I knew whence it had probably come

--i.e. from the cedar woods & barberry%^bushes by Flints Pond. These then make
part of the food of crows in severe weather
when the snow is deep as at present.

Jan 23d

Brown is filling his ice house

The clear ice is only from 1 1/2 to 4 inches--
%nearly% thick—all the rest or more than a foot
the snow
is snow ice—formed by"sinking the first
under the water—& freezing with the water.
The same is the case at Walden.
or transparent
To get ice at all clear"you must
scrape
keep the snow off—after each fall.
Very little ice is formed by addition below
such a snowy winter as this.

There was a white birch scale"in the
which I made
snowed up snowed up hole"in the very
middle of Walden%^I. I have no doubt they
blow across the widest part of the
pond.

%Check MS for this word to see what’s interlined: is it "ge" or "ges"? EM
says "ges". If "ges", decide whether the character in ink preceding "t" is an "s" or a flourish. BW 1/15/07%
%"barberry" written over "barbary"
%"W" written over "w"
When approaching the pond yesterday
through my beanfield I saw where
some fishermen had\textsuperscript{111} come away & the
tails of their string of pickerel had trailed
on the deep snow when they sank in it--
I afterward saw where they had been fish-
ing that forenoon--\textsuperscript{4} also where some
had fished the day before with red fin-
ed minnows which were frozen into an
That these men had chewed tobacco
All this I knew though I saw neither
nor squirrel
man--nor pickerel--nor crow--

snow in the
Measured this Pm the same fields
which I measured just a week ago, to
see how it had settled-- It has been uni-
formly fair weather of average winter cold-
%Add 2 for ice at bottom V. Feb. 12th%
ness, without any thaw--
or
\textsuperscript{112} W of RR\textsuperscript{113} E of RR\textsuperscript{113} av. 
\textsuperscript{114}Trillium Woods
it averages 14 inches of both
11 1/3+ 12 1/3+ %14 1/3+% 16th it was 17 %-19%
11 1/3+ 12 1/2
16- 15 5/8

It has settled therefore in open fields
1 1/10 inches--Showing how very solid, it is,
as many have remarked. Not allowing
of the light snow above the crust
for what\textsuperscript{5} may have drifted against the
RR embankment--(though I measured on
both sides of it.)\textsuperscript{6} the drifting of light surface
snow \textit{may} have produced nearly all the
change!

\textsuperscript{111} had: altered from "&"; "had" written over "&"
\textsuperscript{112} "W of RR" altered from "W on RR"; also, vertical broken line separates this column from the one to its right
\textsuperscript{113}Vertical broken line separates this column from the one to its right
\textsuperscript{114}Solid line separates this column from the one to its left
Jan 24th 56

A journal is a record of experiences & growth—not a preserve of things well done or said. I am occasionally re-minded of a\textsuperscript{115} statement\textsuperscript{116} which I have made in conversation & immediately forgotten—which would read much better than what I put in my journal. It is a ripe dry fruit of long past experience which falls from me easily without giving pain or pleasure—The charm of the journal must consist in a certain green-ness—though freshness—& not in ma-turity. Here I cannot afford to be remembering what I said or did—my scurf cast off—but what I am & aspire to become.

Reading the hymns of the Rig Veda trans- lated by Wilson—which consist in a great measure of simple epithets ad-dressed to the firmament or the dawn—or the winds—which mean more or less as the reader is more or less alert & imaginative—& seeing how wide-ly the various translators have differed—they regarding not the poetry, but the history & philology—dealing with very con-cise sanscrit which must almost al-ways be amplified to be understood—I am sometimes inclined to doubt if the

\textsuperscript{115} "a" altered from "an"
\textsuperscript{116} "statement" altered from "statement,"

317
translator has not made something
out of nothing—whether a real idea
or sentiment has been thus transmitted
to us from so primitive a period—I doubt
if learned Germans might not thus
edit pebbles from the sea-shore into hymns
of the Rig Veda translators translate
them accordingly—extracting the meaning which the sea has imparted to them
in very primitive times—While the commentators & translators are differing about
the meaning of this word or that, I hear
only the resounding of the ancient sea
The deepest murmurs I can recall—& put into it all the meaning I am
possessed of—for I do not the least
care where I get my ideas or what sug-
gests them.

I knew that a crow had that day plucked
table berries & barberries by Flint's Pond—and
then flapped silently through the trackless air
to Walden, where it dined on fisherman's bait—
though there was no living creature to tell me.
Holbrooks elm measured today
11 feet 4 inches in circ. at 6 feet from ground.
The size of one of the branches of the Davis elm—call it the Lee elm for a Lee
formerly lived there.
Cheney's largest in front of Mr Frosts 12-4. at 6 ft
16-6 at 1 ft
The great elm op Keyes' land nearby—call
it the Jones elm—17-6 at 2 behind & 1 plus
before
15-10 at 4

117 “from” altered from “or”
118 “R” written over “r”
119 “largest” altered from “Largest”
At the smallest place bet. the ground & branches
this is a little bigger than the Davis\textsuperscript{120}
or near
ground nor is it so high to the branching--
--about 12 feet--nor are the branches
so big--but it is much rounder & its
top broader fuller & handsomer-- This
has an uncommonly straight sided & solid
looking trunk--Measuring only 2 feet
less at 6 feet from the ground than at 2\textsuperscript{123}.

\textit{Pm.} up Assabet

Even the patches of shining snow crust
between those of dry white surface snow--are
slightly blue like ice & water--
You may walk anywhere on the
river now-- Even the open space against
Merricks\textsuperscript{122} below the Rock has been
closed again--and there is only 6 feet of
water there now. I walk with a peculiar
sense of freedom over the snow-covered
ice--not\textsuperscript{123} fearing that I shall
break through I have not been
able to find any tracts of muskrats
this winter-- I suspect that they very rarely
venture out in winter with their wet
coats. I see squirrel tracks about
the hemlocks-- They are much
like rabbits' only the toes are

\textsuperscript{120} “Davis” altered from “davis”
\textsuperscript{121} “2” altered from “1”
\textsuperscript{122} “Merricks” altered from “merricks”
\textsuperscript{123} “not” altered from “that”
very distinct. (drawing) From this
they pass into a semicircular
figure sometimes Some of\textsuperscript{124} the
first are 6 inches from outside to outside
length wise—with 1 to 2 feet of interval—
are these the grey or red?
A great many hemlock cones
have fallen on the snow & rolled
down the hill—

Higher up against\textsuperscript{125} the Wheeler Swamp
I see where many squirrels—perhaps
red—for the tracks appear smaller—
have fed on the alder cones on the
twigs which are low or frozen into the
ice—stripping them to the core just as
they do the pine cones.

Here are the tracks of a crow like those
of the 22d ult—with a long hind toe
nearly 2 inches—The 2 feet are also
nearly 2 inches apart— I see where
the bird alighted descending with an
impetus & breaking through the slight
\%planting\%
crust with its feet side by side.

How different this partridge track
with its slight hind toe—open & wide
spread toes on each side—both feet
forming one straight line, exactly thus

(drawing) The middle
5 inches from centre to centre—
toe alternately curved to the right & to the left—

\textsuperscript{124} “of” altered from “on”
\textsuperscript{125} “against” altered from “in”
and, what is apparently the outer toe, in each case shorter than the inner one--

I see under a great many trees--

black willow & swamp Whi oak--the bark scattered over the snow--some pieces 6 inches long--& above see the hole which a woodpecker has bored.

The snow is so deep along the sides of the river that I can now look into nests which I could hardly reach in the summer-- I can hardly believe them the same-- They have only an ice egg in them now-- Thus we go about raised generally speaking more than a foot above the summer level-- So much higher do we carry our heads in the winter--

What a great odds such a little difference makes. When the snow raises us one foot higher than we have been accustomed to walk--we are surprised at our elevation! So we soar.

I do not find a foot of open water even on this North 36 Branch as far as I go--i.e. to J. Hosmers lot. The river has been frozen unusually long & solidly. They have been sledding wood along the river for a quarter of a mile in front of Merriams & past the mouth of Sam Barrett's Brook--

\[126 \text{“North” altered from “north”}\]
where it is bare of snow hard glare
ice on which there is scarcely a trace
or oxen
of the sled--^ They have sledded home
a large oak which was cut down on
the bank-- Yet this is one of the rockiest
& swiftest parts of the stream.--Where
I have so often stemmed the swift current--
dodging the rocks--with my paddle-- There
the heavy slow paced oxen with their ponderous squeaking load have plodded while
the teamster walked musing beside it.

That Wheeler swamp is a great place
for squirrels-- I observe many of their
tracks along the river side there-- The
nests are of leaves & ap. of the gray species.

There is much of the water-milk-
weed on the little island just above
Dove Rock--it rises above the deep snow
there.

It is remarkable how much the river
has been tracked by dogs the week past--
not accompanied by their masters. They hunt
perchance in the night more than is
supposed--for I very rarely see one
alone by day.

The river is pretty low & has falling within
a month for there has been no thaw--
The ice has broken & settled around
the rocks which look as if they had
burst up through it-- Some maple
limbs which were early frozen in have been
broken & stripped down by this irresistible weight.

You see where the big dogs have
slipped on one or 2 feet in their haste
--sinking to the ice--but having 2 more
feet it did not delay them.

I walk along the sides of the stream admiring
the rich mulberry catkins of the alders which
look almost edible-- They attract us because
they have so much of spring in them.

The clear red osiers too along the river
side in front of Merriam's on Wheeler's
side.

I have seen many a collection of stately
elms--which better deserved to be repre-
sented at the General127 Court than the
%than the%
mannikins beneath-- perhaps they shaded
\"barroom & a victualling cellar \& groceries\" %they overshadowed%
When I see their magnificent domes
miles away in the horizon--over inter-
vening vallies & forests--they suggest
a village a community there-- But128
after all, it is a secondary consider-
ation whether there are human dwellings
beneath them--these may have long since
passed away-- I find that into my idea
of the village has entered more of
the elm than of the human being.

127 "G" poss written over "g"
128 "But" altered from "but"
They are worth many a political borough
They constitute a borough
The poor human representative of his
party sent out from beneath their shade
will not suggest a tithe of the dignity--
the true nobleness & comprehensiveness of
view--the sturdiness & independence--&
the serene beneficence that they do-- They
look from township to township-- A fragment
of their bark is worth the backs of all
the politicians in the union. They are
their own
free soilers in a peculiar but broad sense--
--They send their roots north & south &
east & west-- many times into many
a conservatives' Kansas & Carolina--
%such%
who does not suspect their underground
%they improve the subsoil he has never disturbed%
railroads--% many times their length
of their principles
if the support requires it. They battle
with the tempests of a century--see what
scars they bear what limbs they lost before
we were born-- Yet they never adjourn
--they steadily vote for their principles &
send their roots further & wider from
the same centre. They die at their posts
& they leave a tough but for the choppers
to exercise themselves about--& a stump
which serves for their monument.

They attend no caucus--they make no com-
promise--they use no policy-- Their one prin-
ciple is growth--they combine a true

129wK" written over "C"
130"their" cancelled in pencil
radicalism with a true conservatism

--their radicalism is not a cutting away of roots--but an infinite multiplication & extension of them under all surrounding institutions. For every inch\(^{131}\) that they\(^{\%}\) rise toward\(^{132}\) the heavens they take a firmer hold on the earth--\(^{\%}\) Their conservative heartwood--in which no sap longer flows--does not impoverish their growth, but is a firm column to support it--\(^{\%}\) when their expanding trunks\(^{134}\) no longer require it--it utterly decays-- Their conservatism is a dead but solid heartwood which is the pivot & firm column of support to all this growth--appropriating\(^{135}\) nothing to itself-- but forever by its support\(^{\%}\) extending the area of\(^{\%}\) radicalism. Half a century after they are dead at the core, they are preserved by radical reforms-- They do not, like men, from radicals turn conservative-- Their conservative part dies out first --their radical & growing part survives. They acquire new states & territories while become the old dominions decay--and… the habitation of bears & owls & coons.

Jan. 25th 56
P. m. up river
The hardest day to bear that we have had--for beside being 5°-- at M, & at 4 P. m. there is a strong N. W. wind--

\(^{131}\) "For every inch" cancelled in pencil
\(^{132}\) "toward" cancelled in pencil
\(^{133}\) This caret connects to a pencilled circle around "that . . . heavens" in the line above, transposing the phrase to this point in the sentence
\(^{134}\) "trunk" altered from "trunks"
\(^{135}\) appropriating: altered from "appropriated"
It is worse than when the thermometer was at zero all day-- Pierce says it is the first day that he has not been able to work out doors in the sun-- The snow is now very dry & powdery & though so hard packed drifts some- what-- The travellers I meet have red- faces. Their ears covered-- Pity those who have not thick mittens-- No man could stand it to travel far toward this wind. It stiffens the whole face--& you feel a tingling sensation in your fore-head --.Much worse to bear than a still cold. I see no life abroad no bird nor beast. What a stern bleak inhospitable as- (I am off Clam shell hill) pect nature now wears--!^ Where a few months since was a fertilizing river--reflecting the sunset--& luxuriant meadows resounding with the hum of insects, is now a uniform crusted snow with dry powdery snow drifting over it & confounding river & meadow-- I make haste away covering my ears, before I freeze there. The snow in the road has frozen dry --as dry as bran. A closed P. pine cone gathered Jan 22nd opened last night in my chamber-- If you would be convinced how differently armed the squirrel is naturally for
dealing with p. pine cones--just try to get
one off with your teeth. He who extracts
with the aid of a knife
the seeds from a single closed cone will
be constrained to confess that the squirrel earns
It is a rugged customer & will make your fingers bleed.
his dinner. "But the squirrel has the key to
conical & spiny
this chest of many apartments-- He sits on
a post vibrating his tail & twirls it as a
plaything.

But so is a man commonly a locked up open
chest to us--to whom; unless we have the key
of sympathy--will make our hearts bleed.
The elms--they adjourn not night
nor day--they pair not off-- They stand
for magnificence--they take the brunt of
the tempest--they attract the lightning that
leaving only a few rotten members would smite our roofs. scattered over the highway.
The one by Holbrooks is particularly regular--
& lofty for its girth--a perfect sheaf--but thin leaved--ap. a slow grower--It bore a
tavern sign for many a year-- Call it the Bond (?) elm
Jan. 26 '56
When I took the ether my consciousness amounted to this--I put my finger on
myself in order to keep the place, otherwise I should never have returned to this world.
They have cut & sawed off the but of
the great elm at 9 1/2 feet from the

134 “tempest” altered from “storm”
137 “lightening” written over “high”
138 “C” poss written over “C”
139 “this” altered from “my”
ground--and I counted the annual rings there with the greatest ease & accuracy-- indeed I never saw them so distinct on a large but. The tree was quite sound there.--not the least hollow even at the pith. There were 127 rings. Supposing the tree to have been 5 years old when 9 1/2 feet high, then it was 132 years old--or came up in the year--1724, just before Lovewell's Fight.

There were 2 centers fourteen (14) inches apart. (drawing) The ac. coarse sketch will give a general idea of it. There were 13 distinct rings about each center--before they united & one ring enclosed both. Then there was a piece of bark--which may be rudely represented by the upper black mark--say 6 or 8 inches long. This was not over--but by grown" the 24th ring. These 2 centers of growth corresponded in 6th feet position to the 2 main branches--& I inferences that when the tree was about 18 years old, the fork commenced at 9 1/2 feet from the ground.--but as it increased in diameter, it united higher & higher up. I remember that the bark was considerably nearer

140 "Lovewell's Fight" altered from "lovewell's fight"
141 "6" altered from "5"
one center than the other. (There was bark in several places completely overgrown & included on the extreme but end where cut off--having ap. overgrown its own furrows.)

Its diameter, where I counted the rings, was one way, as near as I could measure in spite of the calf, 4f 3/12 another 4 8/12--

\[ 4 \times 5 \text{ feet.} \] On the line by which I counted, which was the long way of the tree, it had grown in the first 50 years 20 inches or 2/5 inch a year or about 1/9 of an inch a year.

\[ \text{The last 50--} 5 \times 3/4 \text{ inches--} \] there was a space of about 5 inches between the two--or At this height it had grown on an average annually nearly 24/100 of an inch from the center for the intermediate 27 years... on one side. Or counting both sides had made nearly 1/3 an inch growth.

\[ \text{The white or sap wood averaged about} \]

2 inches thick. The bark was from 1 to 2 inches thick and in the last case I could distinct count: from 12 to 15 rings in it--as if it were regularly shed after that period.

\[ \text{(drawing)} \]

The Court House Elm measured at 6 feet from the ground on the W side--12 feet 1 1/2 inches in circ.

The Willow by the Jim Jones house--14 feet at about 18 inches from ground--13-8/12 " " 6 " " 4 it bulged out much larger above this.
P. m.

Walked--down the river as far as
the S bend behind Abner Buttricks. I also
know its condition as far as the Hub.
Bridge in the other direction. There is
not a square foot open between these
extremes--& judging from what I know
of the river beyond these limits--I may safely
say that it\textsuperscript{142} is not open--(the main\textsuperscript{143} stream
I mean)--anywhere in the town-- Of the
%the goose ground%--say
North Branch\textsuperscript{144}--above the bath place%--I
to the Stone bridge v. 27th inst.
cannot speak confidently. The same must
have been the case yesterday since it was colder.
Prob. the same has been true of the river--excepting
the small space against Merricks below
(when it closed at the Hub. Bath\textsuperscript{145})
the Rock\textsuperscript{146} (now closed) since Jan 7th--or
nearly 3 weeks--a long time methinks
for it to be frozen so solidly. A sleigh might
safely be driven now from Carlisle Bridge\textsuperscript{147} to the
Sudbury\textsuperscript{148} meadows on the river. Methinks
it\textsuperscript{149} is a remarkable cold, as well as snowy,
January--for we have had good sleighing ever--
since the 26th of December--& no thaw.

Walked as far as Flint's Bridge with Abel
Hunt--where I took to the river-- I told him
I had come to walk on the river as the best
place--for the snow had drifted somewhat in
the road--while it was converted into ice
almost entirely on the river--but asked

\textsuperscript{142} "it" written over "this"
\textsuperscript{143} "the main" altered from "one main"
\textsuperscript{144} "Branch" altered from "branch"
\textsuperscript{145} "Bath" altered from "bath"
\textsuperscript{146} "Rock" altered from "rock"
\textsuperscript{147} "Bridge" altered from "to"
\textsuperscript{148} "Sudbury" altered from "sudbury"
\textsuperscript{149} "it" altered from "is"
he--are you not afraid that you will get-
in? Oh no it will bear a load of wood from
one end to the other-- But then there may
some 70
be some weak places-- Yet he is 70"30 yrs
old & was born & bred immediately on its banks.
Truely one half the world does not know how
the other half lives.

Men have been talking now for a week at
e lm
the P. O. about the age of the great"--as
a matter interesting-- but impossible to be
determined-- The very choppers & travellers
have stood upon its prostrate trunk & specu-
lated upon its age-- As if it were a pro-
found mystery. I stooped & read its years
(127 at 9 1/2 feet)
to them--"but they heard me as the wind
that once sighed through its branches--
they still surmised that it might be 200
yrs old--but they never stooped to read the
inscription-- Truly they love darkness rather
than light. One said it was probably 150
--for he had heard somebody say--that for
50 yrs the elm grew--for 50 it stood still--
%(wonder what portion of his career he stood still!%)%
& for 50 it was dying.%(%Truly all men are
not men of science. They dwell within
an integument of prejudice thicker than
the bark of the cork tree--but it is
valuable chiefly to stop bottles with--tied
to their buoyant prejudices they keep them
selves afloat when honest swimmers
sink.
Talking with Miss Mary Emerson

this evening—she said—"It was not
the fashion to be so original when I
she is readier to take my view—look through my
was young." eyes for the time than any young person that I
know in the town.

The white maple (muds) look large with
bursting downy scales as in spring.

I observe that the crust is strongest
over meadows though the snow is deep
there & there is no ice nor water beneath.
but in pastures & upland generally I break
through. Prob. there is more moisture to be
frozen in the former places—& the snow is
more compact.

Jan 27 '56

I haved just sawed a wheel 1 3/4 inches thick
off the end of ap. a stick of red oak in
my pile. I count 29 rings—And about
of rings or divisions of some kind
the same number—with more or less distinctness
in the bark which is about 1/4 of an inch
thick. Is not the whole number of rings con-
tained in the bark of all trees above a bark?
externally smooth? This stick has 2
centers of growth, each a little one side
of the middle. I trace one easily to a
limb which was cut off close to the tree about
3 1/2 inches above the lower side of the section.
The 2 centres are 1 inch apart on the
lower side, 2 inches & 5/8 on the upper side
the main one
There are 3 complete circles to

\[^{151}\text{"And" written over "the"}\]
\[^{152}\text{stray mark before "bark"}\]
on the lower side--& 10 {on} the upper
side--before they coalesce--hence it was 7 years
closing up through 1 3/4 inches of height.

{drawing} There is a rough ridge
confined to the bark
only & about 1/4 of an inch high extending
from the crotch diagonally down the tree ap.
to a point over the true center of growth.

Pm. Walked on the river
from the Old Stone to Derby's Bridge-- It is
open a couple of rods under the Stone bridge
but not a rod below it
"& also for 40 rods below the mouth of
along the W. side
Loring's Brook--"prob. because this is a mill
stream. The only other open places within13" the limits
mentioned yesterday--are in one or 2 places close
under the bank, {and} concealed by it, where
The river after freezing having shrunk
warm springs issue. & the ice settled a foot or 18 inches there
so that you can see water over its edge--
The White maple at Derby's Bridge measures
including ap. a very large sucker
15 feet in circ. at ground--& 10 ft 5 inches at
not including sucker, there free
4 feet above the ground.

The lodging snow of Jan. 13th,--just a fortnight
ago, still adheres in deep & conspicuous ridges
to large exposed trees--too stubborn to be
shaken by the wind--showing from which
side the storm came.

{drawing} The fruit stems of the dog wood
still hold on & a little fruit--
Of course the limbs should be smoother.
The outline much like a peach tree--but it is
without the numerous small limbs. or twigs

Saw what I think were bass nuts on the snow on the river
at Derby's RR Bridge. prob from up stream.

\[13\]"with" inserted
January 28th 56

Snowed all day--about 2 inches falling.

They say it snowed about the same all

yesterday in N. York. Cleared up at night

Jan 29th 56

P. m. Measured the snow in the same

places measured the 16 & 23d--having

had except yesterday--fair weather & no.

thaw--

<table>
<thead>
<tr>
<th>W of RR--</th>
<th>av. 11 1/2+</th>
<th>E of RR 17--</th>
<th>-</th>
<th>13 3/4-1 1/3</th>
<th>%15 3/4</th>
</tr>
</thead>
<tbody>
<tr>
<td>on the 23d it was</td>
<td>11 1/3</td>
<td>14</td>
<td>-</td>
<td>12 1/3+</td>
<td>%14 1/3+%</td>
</tr>
</tbody>
</table>
| 16th " " | 12 1/4 | - | 15 5/8 | - | 13 6/10 | %15 6/10%
| %add 2 for ice at bottom-- V. Feb 12th% |

Trillium Woods Today 14 6/10+ %16 6/10%

the 23d 13 1/4+ %15 1/4+% |

16 17 %19%

As I measured oftener W than E of RR--

the snow is prob. about 14 on a level in

open fields now--or quite as deep as at any

time this winter-- Yet it has ap. been set-

ting a little the last 6 days--

In the woods it is not proportionally deep ap.

it has also been settling--but it is not

so deep there as on the 16th because it settled

rapidly soon after that date.

It is deeper E of RR--evidently because

it lies behind it like a wall--though I

measure from--6 to 10 or 12 rods off on that

Since the 13th ult there has been at no time less than

side. 1 foot on a level in open fields.
It is interesting to see near the sources small even of streams or brooks which now flow through an open country—perhaps shrunken in their volume—the traces of ancient mills—which have devoured the primitive forest—the earthen dams & old sluice ways—and ditches and banks for obtaining a supply of water—

These relics of a more primitive period are still frequent in our midst. Such too probably has been the history of the most thickly settled & cleared countries of Europe. The saw-miller is neighbor & successor to the Indian. It is observable that not only the Moose & the wolf disappear before the civilized man—but even many species of insects—such as the black-fly—& the almost microscopic ‘no-see-em’ How imperfect a notion have we commonly of what was the actual condition of the place where we dwell—3 centuries ago. For the most part the farmers have not been able to get into the woods for the last fortnight or more—on ac. of the snow—and some who had not got up their wood before are now put to their trumps—for though it may not be more than 18 inches deep on a level in sprout-lands the crust

\[156\] inserted
cuts the legs of the cattle--& the occasion-
al drifts are impassable. Sometimes
with 2 yoke of oxen and a horse attached
to the sled--the farmer attempts to break
his way into his lot--one driving while
another walks before with a shovel--treading
& making a path for the horse--but
they must take off the cattle at last
& turn the sled with their hands.

Miss Minott has been obliged to have
some of her locusts about the house cut
down-- She remembers when the whole
top of the elm N of the road close to Dr.
Heywoods broke off--when she was a
little girl. It must have been then before
1800.

Jan 30th 56
8 Am It has just begun to snow--those
dry little round pellets like shot.

Geo. Minott says that he was standing
with Bowers (?) & Joe Barrett near Dr Hey-
wood’s barn in the September gale--& saw
an elm--2ce as big as that which broke off
before his house--break off 10 feet
from the ground--splinter all up--&
the barn bent & gave so that he thought
it was time to be moving. He saw stones
"as big as that [air tight] stove, blown
right out of the wall---" so by bending
to the blast he made his way home.

All the small buildings on the Walden road across the brook were blown back toward the brook-- Minot lost the roof of his shed. The wind was southerly.

As I walked above the old stone bridge on the 27th ult--I saw where the river had recently been open open under the wooded bank on the W. side--& recent saw dust & shavings from the pail-factory--& also the ends of saplings & limbs of trees which had been bent down by the ice, were frozen in. In some places some water stood above--the ice--& as I stood there I saw & heard it gurgle up through a crevice & spread over the ice. This was the influence of Lorings Brook-- far above.

Stopped {‡‡} snowing before noon--not having amounted to anything.

P. m. measured to see what difference there was in the depth of the snow in dif adjacent fields as nearly as possible & similarly situated. Commenced 15 or 20 rods E of the RR--& measured across Hubbards (?) Stows & Collier's fields toward a point on the S side of the last 25 rds E of Trillium Woods. These 3 fields were nearly level--some--what meadowy, especially the 2nd, & at least 25 rods from the nearest disturbing influence--such as the RR

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157 "Brook" altered from "brook"

158 "possible" altered from "possibly"
embankment—or a wood—

<table>
<thead>
<tr>
<th></th>
<th>AB</th>
<th>BC</th>
<th>21</th>
<th>average</th>
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<tbody>
<tr>
<td>N A wall &amp; riders</td>
<td>22</td>
<td>20</td>
<td>12</td>
<td>of</td>
</tr>
<tr>
<td>__________ Hub's (?)</td>
<td>19</td>
<td>27</td>
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<td>of</td>
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<tr>
<td>av. 14 5/8</td>
<td>14</td>
<td>12</td>
<td>8</td>
<td>%add 2 for</td>
</tr>
<tr>
<td>B rail fence</td>
<td>13</td>
<td>10</td>
<td>16</td>
<td>ice at bottom</td>
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<tr>
<td>Stows</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>Feb 12th%</td>
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<tr>
<td>av. 12 1/2</td>
<td>21</td>
<td>9</td>
<td>14</td>
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<td>rail fence</td>
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<td>C &amp; ditch</td>
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<td>Collier's</td>
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<td>14</td>
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<tr>
<td>av. 14</td>
<td>12</td>
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<td>D wall &amp; riders</td>
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The walls no doubt gave the 1st & 3d fields some—
what more snow— Yet I am inclined to think
that in this trial the snow is shallower
very nearly as the fields are more moist.
It is 3 inches shallower here than nearer
showing the effect of that bank very clearly—6 to 15 rods off
the RR where I measured yesterday. but
the av. is the same obtained yesterday
for open fields E & W of RR—& proves
the truth of that measuring.

The snow in the 1st field measured 2 inches
more than that in the 2nd! 

12th ult it was 23 4/5", It has prob. been about feet
2 1/2 say on the 16th The andromeda calyculata
is now quite covered & I walk on the crust
over an almost uninterrupted plain there.
Only a few blueberries & Andromeda paniculatas
rise above it. Near the last I break through.
It is so light beneath that the crust breaks
there in great cakes under my feet &
immediately falls about a foot making
a great hole--so that once pushing my
way through--for regularly stepping is out of
the question in the weak places--makes a
pretty good path.

NB In Wheelers squirrel wood which on the 12th
\[\frac{1}{4} + \frac{2}{8} = -\frac{2}{10}\%\]
gave 10\% inches of snow now gives 15\% which
is what I should have judged from the
changes in Trillium wood. They are affected
alike.

The sproutland just South of this wood
\[\frac{1}{8} + \frac{2}{4} = -\frac{4}{10}\%\]
gives as average of 14 measurements 21 4/10\%--
which I suspect is too much--it is so sheltered

By the RR{--}against Walden I heard the
lisping of a chicadee & saw it on a sumach--
It repeatedly hopped to a bunch of berries--took
one--& hopping to a more horizontal twig--place
it under one foot & hammered at it with its
bill. The snow was strewn with the berries
under its foot, but\[\text{160}^{1}\] I could see no shells of
the fruit-- Perhaps it clears off the crimson only.

Some of the bunches are very large & quite
upright there still.

\[\text{[drawing] [drawing] sumachs}\]

\[\text{160}^{1} \text{ "but" written over "by"}\]
Again I suspect that on meadows
the snow is not so deep & has a firmer
crust. In an ordinary storm the
depth of the snow will be affected by a
wood 20 or more rods distant—or
as far as the wood is a fence—

The snow is so light in the swamps under
the crust amid the andromeda that
a cat could almost run there. There
are but few tracks of mice—now the
snow is so deep—They run underneath.

The drift about Lynch's House is
like this {drawing}

There is a strong
wind this P. m. from NW
& the snow of the 28th is driving like
steam over the fields—drifting into the roads—
On the RR causeway—it lies in perfectly
straight & regular ridges a few feet
apart NW & SE {drawing} It is dry & scaly.
like coarse bran.

Now that there is so much snow
it slopes up to the tops of the walks on both
sides. {drawing}

What a dif. between life in the city &
in the country at present—between walking
in Washington street—threading your way between
countless sledges & travellers over the discolored
snow— and crossing Walden Pond—

161 lines 14 and 15 actually appear to right of drawing
162 "from" altered from "&"

a spotless field of snow surrounded by
woods--whose intensely blue shadows & your
own are the only objects-- What a solemn
silence reigns here--!

Jan 31st

P. m. up North Branch

There are a few inches of light snow on top
of the little hard and crusted that I walked
on\textsuperscript{163} here last--above the snow ice-- The old
tracks are blotted out & new & fresher ones
are to be discerned-- It is a tabula rasa--
These fresh falls of snow are like turn-
ing over a new leaf of Nature's \textit{Album}.

At first you detect no track of beast
or bird & Nature\textsuperscript{164} looks more than
commonly silent & blank-- You doubt
if anything has been abroad--though
the snow fell 3 days ago--but ere
long the track of a squirrel is\textsuperscript{165} seen
to or
making\textsuperscript{\vbox{from the base of a tree--}}
or\textsuperscript{166} the hole where he dug for acorns
& the shells he dropped on the snow
around that stump.

The wind of yesterday has shaken down
countless oak leaves which have been
driven hurry-scurry over this smooth &
delicate & unspotted surface--& now
there is hardly a square foot which
does not show some faint trace
of them. They still spot the snow thickly
in many places, though few can be traced to their lairs. More hemlock cones also have fallen & rolled down the bank. The fall of these withered leaves after each ruder blast--so clear & dry that they do not soil the snow is a phenomenon quite in harmony with the winter.

Perhaps the tracks of the mice are the most amusing of any--they take such various forms--and though small are so distinct. Here is where one has come down the bank--& hopped meanderingly across the river--

[drawing] or [drawing]

1 1/4 inches wide by 5 6 or 7 apart from center to center--

But what track is this just under the bank

[drawing] It must be a bird, which at last struck the snow with its wings and took to flight--there were but 4 hops in all--& then it ended as above though there was nothing near enough for it to hop upon from the snow-- The form of the track foot was some what like that of a squirrel

167 "though" altered from "here one"
though only the outline was distinguished--

The foot was about 2 inches long & it
was about 2 inches from outside of one
foot to outside of thother. 16 inches from
the rest in proportion
hop to hop--" Looking" narrowly I saw
where one wing struck the bank ten
feet ahead, thus (drawing) as it passed--
occurred
1/4 of a mile down stream it--
again thus (drawing) and near by still
less of a track but marks as if
it had pecked in the snow.

Could it be the track of a crow with
its toes unusually close together? or was
it an owl? Prob a crow V. Feb. 1st
hardly a doubt of it--
Some creature has been eating elm blossom
buds & dropping them over the snow.

The tracks of the mice suggest ex-
tensive hopping in the night & going
a gadding-- They commence & termi-
nate in the most insignificant little
holes by the side of a twig or tuft--
& occasionally they give us the type of
their tails very distinctly--even side-wise
to the course on a bank side--thus

{drawing}
Saw also the tracks prob-- of a muskrat
for a few feet leading from hole to hole just
under the bank.

Feb 1701st '56
2/3 grown
Our kitten Min this morning was playing
with Sophia's broom this morning, as she
was sweeping the parlor, when she sud-
denly went into a fit, dashed round the
room--& the door being opened, rushed up
2 flights of stairs & leaped from the
attic window to the ice & snow by the
side of the door step--a descent of
a little more than 20 feet--passed round
the house & was lost-- But she made
her appearance again--about noon
at the window quite well & sound in
every joint--even playful & frisky.

Pm. Up river

What gives to the excrements of the fox
that clay color often, even at this sea-
son? Left on our eminence--

I scented a fox's trail this p. m. (and
have done so several times before) where
he crossed the river--just 3 rods distant--
looked sharp & discovered where it had stopped
by a prominence-- Yet he could not have
passed since last night--or 12 hours before
--it being near the village. How widely
they range these nights! I hear
that Daniel Foster of Princtown had
11 turkies taken from under his barn
in one night last fall—prob. by a fox.
2 were found a week after buried under some
brush in a neighboring wood.

The snow is somewhat banked toward the
sides of the river—but shows darker yellowish
or icy in the middle—Lichens blown from the
black willows lie here & there on the snow.
Nut Meadow Brook open for some distance
in the meadow— I was affected by the sight
of some green polygonum leaves there— Some
kind of minnow darted off— I see where
a crow has walked along its side. In
one place it hopped—& its feet were side
by side as in the track of yesterday—though
a little more spread the toes— I have but
little doubt that yesterday's track was a crows—
{drawing} The 2 inner toes are near together—the
middle more or less curved often.

I see a gray rabbit amid the young oaks—
in Hub's river-side grove
^curled & shrunk up—squatting on the
& begin to sketch it when
snow— I advance" it plunges into a little
by its side
hole in the snow"—the entrance to its burrow
3 inches wide by a little more in length {drawing}.
The track of its foot is about 1 inch wide.

I see a pitch pine seed blown 30
rods from J Hosmers little grove—
The Sheldon House in Deer field pulled down about 8 yrs since--represented in 34& in Barber %
Gleasons pictorial for "51%% --is in the style of the Hunt House--except that there is but one window on each side of the Meeting house alone of those within the fort & the door through which a hole was cut & a woman shot is still preserved--

This has been a memorable January for snow & cold--It has been excellent sleighing ever since the 26th of Dec. %not% %since% %Jan 6th% --very little172 less than a foot at any time before %Jan 6th% the 13th & not less than a foot173 since%^%on a level in open fields%^%--in swamps much more.

Cars have been detained--the woodlots for the most part inaccessible--The river has been closed up from end to end--with the exception of one or 2 insignificant openings on a few days. No bare ice. The crows have been remarkably bold coming to eat the scraps {cast} out behind the houses. They alight in our yard. I think I have not noticed a tree sparrow during the month. Blue jays & chicadees also common in the village--more than usual. We have completely forgotten the summer-- There has been no Jan. thaw--though one prophesied it a fort-night ago because he saw snow fleas

---

171 "Sheldon" altered from "sheldon"
172i "very little" cancelled in pencil
173i "before . . . foot" cancelled in pencil
The ponds are yielding a good crop of ice
The eaves have scarcely run at all. It has
been what is called "an old fashioned winter".

Feb 2d
Snowed again last night perhaps an inch--
erasing the old tracks--& giving us a blank
page again--restoring the purity of
nature-- It may be even a trifle deeper now than hitherto. //

Feb 3d
Analysed the crow b. bird's nest from which
I took an egg last summer--8 or 10 feet up a
white maple by river op-- Island. Large of an irreg-
ular form appearing as if wedged in between a
twig & 2 large contiguous trunks. From outside
to outside it measures from 6 to eight inches--
inside 4--depth 2--height 6-- The
strips of
foundation is a loose mass of coarse "grape
chiefly
vine bark"--some 18 inches long by 3/8 inch
also
wide--"{slender} grass & weed stems--mikania
stems--a few cellular river weeds as rushes--sparganium
--pipe grass--& some soft coarse fibrous roots--
The same coarse grapevine bark
& grass & weed stems--together with some harder
wiry stems--form the sides & rim--the bark
being passed around the twig--
The nest is lined with the finer grass &
weed stems &c--
The solid part of the nest is of half decayed
full of fine fibrous roots &
vegetable matter & mud "bound internally
with grass stems &c--& some grape bark--
being 1 1/2 inches thick at bottom--
Pulled apart & lying loose it makes
a great mass of material.

This like similar nests, is now a great
haunt for spiders.

Pm up North Branch--
A strong N. W. wind (& Therm. 11°-) driving
the surface snow like steam--about 5 inches
of soft snow now on ice. See many seeds
of the hemlock on the snow still. & cones
which have freshly rolled down the bank.

Tracked some mice to a black willow by
river side, just above spring--against the
open swamp--and about 3 feet high in ap.
an old woodpeckers hole--was prob. the
mouse nest--a double fhandful--
inner bark
consisting 4/9 of fine fibres--shreds of "perhaps
willow or maple 3/9 the greenish moss ap. of
buttonbush--2/9 the gray slate fur ap of
rabbits or mice. Half a dozen hogs bristles
might have been brought by some bird to its nest
there. These made a very warm & soft
nest.

//
Got some kind of vireo's nest from a maple
far up the stream a dozen feet high--pensile--
almost
within "wholly rather coarse grape vine shreds
without the same & bark covered with the delicate
white spider-nests (?) birch bark shreds & brown
Returning saw near the Island a shrike
returning saw near the Island a shrike

\[\text{glide by, cold & bluster as it was--}
\text{glide by, cold & blustering as it was--}

\[\text{with a remarkably even & steady sail}
\text{with a remarkably even & steady sail}

\[\text{or gliding motion 8 or 10 feet above the ground}
\text{or gliding motion 8 or 10 feet above the ground}

\[\text{like a hawk--& alight on a tree from which}
\text{like a hawk--& alight on a tree from which}

\[\text{at the same instant a small bird--perhaps}
\text{at the same instant a small bird--perhaps}

\[\text{a creeper or nuthatch flitted timidly away--}
\text{a creeper or nuthatch flitted timidly away--}

\[\text{The shrike was ap. in pursuit.}
\text{The shrike was ap. in pursuit.}

\[\text{We go wading through snows now}
\text{We go wading through snows now}

\[\text{up the bleak river--in the face of}
\text{up the bleak river--in the face of}

\[\text{a cutting N. W. wind & driving snow storm--}
\text{a cutting N. W. wind & driving snow storm--}

\[\text{turning now this ear then that to the}
\text{turning now this ear then that to the}

\[\text{& our gloved hands in our bosoms or pockets}
\text{& our gloved hands in our bosoms or pockets}

\[\text{wind--Our tracks are obliterated before}
\text{wind--Our tracks are obliterated before}

\[\text{we come back. How different this}
\text{we come back. How different this}

\[\text{from sailing or paddling up the}
\text{from sailing or paddling up the}

\[\text{stream here in July--or poling amid}
\text{stream here in July--or poling amid}

\[\text{Yet still, in one square rod where they have got out ice & a}
\text{Yet still, in one square rod where they have got out ice & a}

\[\text{the rocks! thin transparent ice has formed, I can see the pebbly}
\text{the rocks! thin transparent ice has formed, I can see the pebbly}

\[\text{bottom the same as in summer.}
\text{bottom the same as in summer.}

\[\text{It is a cold & windy Sunday--the}
\text{It is a cold & windy Sunday--the}

\[\text{whistles round the N. W. corner of the house &}
\text{whistles round the N. W. corner of the house &}

\[\text{wind penetrates every crevice of the}
\text{wind penetrates every crevice of the}

\[\text{house & consumes the wood in}
\text{house & consumes the wood in}

\[\text{the stoves--soon blows it all away.}
\text{the stoves--soon blows it all away.}

\[\text{whisks round the corner of the house--in at a crevice--& flirts}
\text{whisks round the corner of the house--in at a crevice--& flirts}

\[\text{An arm-ful goes but little way-- Such}
\text{An arm-ful goes but little way-- Such}

\[\text{off with all the heat before we have begun to}
\text{off with all the heat before we have begun to}

\[\text{a day makes a great hole in the}
\text{a day makes a great hole in the}

\[\text{feel it.}
\text{feel it.}

\[\text{but a few inches deep}
\text{but a few inches deep}

\[\text{Some of the low drifts--made by the}
\text{Some of the low drifts--made by the}

\[\text{surface snow blowing--over the river espe-}
\text{surface snow blowing--over the river espe-}

\[\text{cially, are of a fine pure snow so}
\text{especially, are of a fine pure snow so}

\[\text{densely packed that our feet make hardly}
\text{densely packed that our feet make hardly}

\[\text{any impression on them}
\text{any impression on them}

\[\text{River still tight at Merricks.}
\text{River still tight at Merricks.}
There comes a deep snow in mid-winter covering up the ordinary food of many birds & quadrupeds—but anon a high wind scatters the seeds & birch & alder &c of pines & hemlocks “far & wide over the surface of the snow for them.

You may now observe plainly the habit of the rabbits to run in paths about the swamps.

Mr Emerson who returned last week from lecturing on the Mississippi—where having been gone but a month—tells me that he saw boys skating on the Mississippi—& on Lake Erie—& has made on the Hudson—& has no doubt they are skating on Lake Superior—& prob— at Boston he saw them skating on the Atlantic.

The inside of the gray squirrel, or leaf nests, is of leaves chewed or broken up finely. I see where one, by the snow lodging on it, has helped weigh down a birch.

In Barber’s His’t Coll—there is a letter by Cotton Mather dated “Boston, 10th Dec. 1717.” describing the great snow of the previous February. from which I quote—

"On the twentieth of the last February there came on a snow, which being added unto what had covered the ground a few days before,
made a thicker mantle for our mother
than what was usual: And the storm with it
was, for the following day, so violent as to make
all communication between the neighbors every
where to cease. People, for some hours, could not
pass from one side of a street unto another,"---
--- --- --- ---"On the 24th day of the month,
comes Pelion upon Ossa: Another snow came
on which almost buried the memory of the former,
with a storm so famous that Heaven laid an
interdict on the religious assemblies through-
out the country, on this Lord's[7]^e day, the like
whereunto had never been seen before. The Indians
near an hundred years old affirm that their
fathers never told them of any thing that equalled
it. Vast numbers of cattle were destroyed in
this calamity. Whereof some there were, of the
stranger [stronger? mine] sort, were found
standing dead on their legs, as if they had
been alive many weeks after, when the snow
melted away. And others had their eyes glazed
over with [eyes at such a rate, that
being not far from the sea, their mistake
of their way drowned them there. One gentleman,
on Whose farms were now lost above 1100 sheep,
which with other cattle, were interred (shall I
say) or innived, in the snow, writes me word
that there were two sheep very singularly
circumstanced. For no less than 8 & 20 days
after the storm, the people pulling out

^[7]^e" written over "1"
the ruins of above an 100 sheep out of
a snow bank which lay 16 foot high,
drifted over them, there was 2 found alive,
which had been there all this time, &
kept themselves alive by eating the
wool of their dead companions. When they
were taken out they shed their own fleeces,
but soon got into good care again."

"A man had a couple of young hogs,
which he gave over for dead, but on the 27th
day after their burial, they made their way
out of a snow-bank, at the bottom of which
they had found a little tansy to feed upon."

"Hens were found alive after 7 days; Turkeys
were found alive after 5 & 20 days, buried
in the snow, & at a distance from the
ground, & altogether destitute of anything
to feed them."

"The wild creatures of the woods, the out-
goings of the evening, made their de-
scent as well as they could in this time of
scarcity for them towards the sea-side. A vast
multitude of deer, for the same cause, taking
the same course, & the deep snow spoiling
them of their only defence, which is to run,
they became such a prey to these devourers,
that it is thought not one in 20 escaped."

"It is incredible how much
damage is done to the orchards, for
the snow freezing to a crust, as high as the
bows of the trees, anon split them to pieces.
The cattle also, walking on the crusted snow
a dozen foot from the ground, so fed upon
the trees as very much to damnify them."--
"Cottages were totally covered with the snow, &
not the very tops of their chimneys to be seen"-- These
"odd accidents" he says "would afford a story.
But there not being any relation to Philosophy in
them, I forbear them." He little thought
that his simple testimony to such facts as the
above--could be worth all the philosophy he
might dream of.

Feb. 4th

Pm to Walden--

I go to walk--at 3 Pm thermometer--18"--
& 22"--
It has been about this at this hour--for
a week or 2-- All the light snow, some
5 inches above the crust, is adrift these
days--& driving over the fields like steam
--or like the foam streaks on a flooded
meadow--from NW to SE. The sur-
face of the fields is rough--like
a lake agitated by the wind.

I see that the partridges feed quite
extensively on the sumach berries--e.g.
at my old house--they come to them after
every snow--making fresh tracks & leave
now stript many bushes quite bare.

At tanager glade I see where
the rabbits have gnawed the shrub oaks extensively & the twigs down to the size of a goose quill cutting them off as smoothly as a knife. They have also gnawed some young white oaks--black-cherry--& apple-- The shrub oaks look like hedges which have been trimmed--or clipt.

I have often wondered how red cedar could have sprung up in some pastures which I knew to be miles distant from the nearest fruit-bearing cedar--but it & barberries &c now occurs to me that these "may be planted by the crows--and prob. other birds.

--The oak leaves which have blown over the snow are collected in dense heaps on the still\textsuperscript{178} side of the bays at Walden--where I suspect they make warm beds for the rabbits to squat on.

Feb 5th

The weather is still clear--cold--& un-re relenting-- I have walked much on the river this winter--but, ever since it froze over--it has been on a snow clad river--or pond-- They have been \textit{river walks}--because the snow was shallowest there-- Even\textsuperscript{179} the meadows on--ac. of the firmer crust, have been more passable than the uplands-- In the afternoons I have walked off freely

\textsuperscript{177}"these" written over "they"
\textsuperscript{178}"still" inserted
\textsuperscript{179}"E" written over "e"
up or down the river without impediment
or fear—looking for birds & birds' nests
& the tracks of animals—and as often
as it was written over—a new snow came
& presented a new blank page—if it
were still after it, the tracks were
beautifully distinct—if strong winds blew—
the dry leaves losing their holds—traversed
& scored it in all directions.

The sleighing would have been excellent all
the month past if it had not been for the
drifting of the surface snow into the track whenever
the wind blow—but that crust on
the old snow—has prevented very deep drifts
I should the average cold was about 8°+
at 8[10] Am & 18° or 20°+ at 3 Pm.

Feb 6th '56

Pm to Walden—The down is just peeping
out from some of the aspen buds—Cut a
cake of ice out of the middle of Walden, within
3 rods of where I cut on the 18th of Jan. The
snow was about an inch deep only—so fast
has it been converted into snow ice. I was obliged
to make a hole about 4 feet square
in order to get out a cake, & took great
care to approach the water evenly on all sides
so that I might have the less chopping
to do after the water began to rush in, which
would wet me through. It was surprising
with what violence the water rushed in

180" poss written over "6"  
181" with" written over "the"
as soon as a hole was made--under

the pressure of that body of ice. On

the 18th of Jan. the ice had been about

7 inches thick here--about 4 being

snow ice & about 3 water ice-- It was

now 19 inches thick 11 1/2- being snow

ice & 7 1/2+ water ice. Supposing

it an inch thick only here when the snow

began to fall on it (for it began to fall

almost immediately) it had increased since that time 6 1/2+ inches downward & 11 1/2-

upward-- Since the 18th of Jan--, when there was 10 inches of snow on it it

had increased about 4 1/2 downward--

& about 7 1/2 upward. I was not pre-

pared to find that any ice had formed

on the underside since the 18th. The

water ice was very crystalline. This ice

was thicker than the snow has been in open

fields any time this winter-- Yet this

winter has been remarkable for the abun-
dance of snow. I also cut through

& measured in the Ice Heap Cove--

The snow ice was 12 1/4 & the water ice

about 6-- but perhaps a little was broken

off in cutting through the last-- In all about

18 1/4 inch. I was not prepared to find it

thickest in the middle. Earlier in the

winter--or on the 18th Jan. it was

thickest near the shore.

"Earlier" written over “Early”
Goodwin says that he has caught 2 crows this winter in his traps set in water for mink, & baited with fish-- The crows prob. put to it for food & looking along the very few open brooks attracted by this bait got their feet into the traps. He thinks that I call muskrat tracks are mink tracks by the Rock--& that muskrat do not come out at all this weather-- I saw a clamshell opened & they say minks do not open them (?)

Feb 7th

Began to snow at 8 Am--turned to rain at noon & cleared off or rather ceased raining at night--with some glaze on the trees. though slight

This the first thawing since the 25th of December-- During the rain the air was thick--the distant woods--bluish--and the single trees &c on the hill under the dull mist covered sky remarkably distinct & black--

Feb 8th

9 Am to Fair Haven Pond--

A clear & a pleasanter & warmer day than we have had for a long time. The (at noon) snow begins to soften somewhat in the road.

For 2 or 3 weeks successive light & dry snows have fallen on the old crust & been drifting about on it--leaving it at last 3/4 bare & forming drifts against the fences &c or here & there low slaty.--fractured ones in mid field
or pure white hard-packed ones. These drifts
& flat. But yesterdays snow turning
to rain which froze as it fell--there
giving them a hoary look
// is now a glaze on the trees--icicles
like rakes' teeth on the rails--and
a thin crust over all the snow-- At
this hour the crust sparkles with a
myriad brilliant points or mirrors--one
to every 6 inches at least-- This crust is
cracked like ice into irregular figures a foot
or two square. Perhaps the snow has
settled considerably--for the track in the
roads is the highest part. Some heard
a loud cracking in the ground or ice
last night.

I cut through--5 or 6 rods from the E shore
of Fair Haven--& find 7 inches of snow--9 inches
// of snow ice & 8 of water ice--17 of both.
The water rises to within 1/2 inch of the top of
the ice.

Isaac Garfield has cut a dozen holes on
the west side-- The ice there averages
// 19 inches in thickness-- Half the holes
are 5 or 6 rods from the shore--& the
rest 9 or 10--the water from 3 to 7 feet
In some places more than half the whole depth is ice
deep-- ^The thinnest ice is 17 inches
the thickest 20+. The inner row

In the mid of river in front of our house same day it is 13 1/4 inches thick
only 5 of it snow ice--it having been late to freeze there, comparatively.
invariably the thickest. The water rises above
the ice in some cases.

Edward & Issac Garfield were fishing
there--& Puffer came along--& afterward
Lewis Miner with his gun. He cannot get near the
partridges on ac. of the cracklings
of the crust.

%I saw the last 2 approaching with my glass%
The fishermen agree in saying that the pickerel
have generally been eating, & are full, when they bite.
Puffer thinks they eat a good deal, but seldom.
Some think it best to cut the holes the day-
before--that because the noise frightens them.
& the crackling of the crust to day--was thought
to frighten them--E. Garfield says that
his uncle Daniel was once scaling a
pickerel when he pricked his finger against
the horn of a pout which the pickerel
had swallowed. He himself killed a pickerel
with a paddle in the act of swallowing
a large perch--Puffer had taken
a striped snake out of one.

They send to Lowell for their bait, &
fishermen send thither from far & wide, so
that there is not a sufficient supply for them.
I. Garfield once caught an eel there
with his pickerel bait--through the ice--
also speared a trout that weighed
3 1/2 lbs--he says--off Well meadow--
E. Garfield says that he was just
turning into the pond from up stream
when he heard a loud sound & saw and
caught there 2 great mud turtles--He
let the boat drift down upon them,
One had got the other by the neck--& their shells were thumping together--& their tails sticking up-- He caught one in each hand suddenly, & succeeded in getting them into the boat--only by turning them over--since they resisted with their claws against the side--then stood on them turned over--paddled to nearest shore--pulled his boat up with his heel--& taking a tail in each hand walked backward through the meadow in water a foot deep, dragging them. Then carried one a few rods, left him & returned for the other--& so on-- One weighed 43 & the other 47 pounds--together 90-- Puffer said that he never saw 2 together so heavy-- I. Garfield said that he had seen one that weighed 63 lbs. All referred to the time when (about 15 years ago--one said the year of the Bunker Hill Monument celebration) Some 40 were found dead on the meadows between there & Sudbury-- It was about the end of March & Puffer inferred that they had come out thus early from the river & the water going down the ice had settled on them & killed them--but the Garfields thought that the ice which tore up the meadows very much that year--exposed them & so they froze-- I think the last most
likely. Puffer searches for them in May under
the cranberry vines with a spear--kinds the "grass tortoise"
E. Garfield says that he saw the
other day where a fox had caught in the
snow 3 partridges & eaten 2--he himself
last winter caught 2 on the hill side S of
F. Haven with his hands--They flew before him--
& dived into the snow,--which was about a
foot deep--going 2ce their length into it--
He thrust his hand in & caught them.
Puffer said that his companion one night
speared a partridge on the alders on the S side
the pond.
E. Garfield says there were many quails
here last fall--but that they are suffering
now--
One night as he was spearing in Conant's Cran-
berry meadow, just north the pond--his dog
caught a shelldrake in the water by the
shore.
Some days ago he saw what he thought
a hawk as white as snow fly over the pond--
was it a {guy-}falcon? but it--may have been a white owl--(which
nest he never saw--) He some times sees a
hen hawk in the winter--but never a partridge
or other small hawk at this season--
Speaks again of that large speckled hawk he killed once--which
some called a "Cape Eagle"
Had a hum--bird's nest behind their
house last summer--& was amused to see
the bird drive off other birds--would
pursue a robin & alight on his back--
--let none come near-- I Garfield saw
ones nest on a horizontal branch of
a white-pine near the Charles Miles house
about 7 feet from ground.
E Garfield Garfield spoke of the wren’s nest as not uncommon hung in the grass at the meadows—and how swiftly & easily the bird would run through a winnow of hay.

Puffer saw a couple of foxes cross the pond a few days ago—The Wheelwright in the corner saw 4 at once about the same time.

They think that most squirrel tracks now are of the gray ones—that they do not lay up anything—Their tracks are much larger than those of the red. Puffer says that 5 gray squirrels came out of one of their leafy nests in a mid-sized white pine, after it was cut down behind the Harrington house the other day—and a day or 2 after 3 out of another. He says that they too use bark in making their nests—as well leaves—the inner bark of old chestnut rails—which looks like seaweed.

E. Garfield says the Chip squirrels come out this month—.

Puffer saw a star-nosed mole yesterday in the road its track was {drawing} dog-like

Coming home at 12—the ice is fast melting on the trees & I see in the drops the colors of all the gems—The snow is soft & the eaves begin to run
as not for many weeks.

Therm. at 3 1/2 Pm 31°+

Puffer once found the nest of what he calls the deer mouse
(prob. jumping) in pile of wood at what is now R. Rice's
place in Sudbury--& the old one carried off 9 young
clinging to her teats. These men do not chop now--they say because
the snow is so deep & the crust cuts their legs.

Mr Pritchard tells me that he remembers

a 6 weeks of more uninterrupted severe cold
than we have just & that was in '31 end

ing the middle of January--the eaves
on the S side of his huse did not once
run during that period--but they have
run or dripped a trifle on several days
during the past 6 weeks.

Daniel (?)
Puffer says that he and ^Haynes set lines once when
there was good skating in all the bays from the
Long cause-way in Sudbury down to the RR. bridge--
but caught only 2 or 3 perch.

Feb 9th 56.

How much the NW. wind prevails in the
winter--almost all our storms come from
that quarter & the ridges of snow drifts run
that way-- If the Ind. placed their heaven
in the SW--on ac. of the warmth of the
SW wind--they might have made a
d Stern winter god of the N. W. wind.

Pm up Assabet

3 1/2 Pm. Therm. 30°+ This & yesterday
comparatively warm weather--1/2 inch of
snow fell this fore noon--but now it has
cleared up. I see a few squirrel tracks but no mice tracks for no night has intervened since the snow. It is only where the river washes a wooded bank that I see mice or even squirrel tracks [--elsewhere only where dogs & foxes have traversed it-- E.G. there are no tracks on the side of the river against Hosmers & Emerson's land though many alders &c there--but many tracks commonly on the opposite wooded side. In the swamp west of pigeon rock--I see where the rabbits have bitten off the Swamp-white oak sprouts--where they have sprung up tender looking like poplar--from stocks broken by the ice last winter. I hear a // pheobe note from a chicadee // Saw a pensile nest 18 feet high within a lichen clad red maple on the edge pink of the Assabet Spring or azalea swamp-- It looked very much like a bunch of the lichens dangling--& I was not sure it was not till I climbed up to it. Without it was chiefly the coarse greenish lichens of the maple--bound with coarse bits of bark--& perhaps bleached milkweed bark (??) & brown cocoon silk--& within a thin lining of pine needles hemlock twigs & the like. Was it a Yel--throat vireo's--? It was not shaped like the red eye's--{bu}
side wise thus--{drawing} looking down on it thus
--{drawing} On a side twig to one of the
limbs & about a foot from the end of the twig.

Feb-- 10th 56

Speaking about the weather & the
fishing--with E & I-- Garfield on the
8th ult I was amused to hear these 2
young farmers suddenly disputing as to
whether the\textsuperscript{187} moon (\textsuperscript{188}), if that be it, was in
the Feet--or the Head or elsewhere. Though
I know far more of astronomy than they,
I should not know how at once to find
out this nonsense in an almanac-- Yet
they talk very glibly about it, & go a fishing
accordingly. Again in the evening of
the same day I overtook Mr Pritchard & ob-
served that it was time for a thaw--but said
he-- "That does not look like it--
in the west
{pointing to the \textsuperscript{new} moon\textsuperscript{189})} \textsuperscript{189} You
could hang a powder horn upon
that pretty well\textsuperscript{189}--"

Pm

To Walden-- Returning I saw a
fox on the railroad at the crossing
below the shanty-site--8 or 9 rods from
me. He looked of a dirty yellow & lean.
I did not notice the white tip to his tail--
Seeing me he pricked up his ears--& at
first ran up & along the E bank

\textsuperscript{187} the\textsuperscript{" inserted}
\textsuperscript{188} { (?) }\textsuperscript{ inserted}
\textsuperscript{189} w\textsuperscript{" written over \"y\"}
on the crust--then changed his mind & came down the steep bank
crossed the RR before me--& gliding up the west bank disappeared in
the woods-- He coursed or glided along easily--appearing not to lift
his feet high--leaping over obstacles-- with his tail extended straight behind--
He leaped over the ridge of snow about 2 feet high & 3 wide--between
the tracks very easily & gracefully.

I followed examining his tracks-- There was about a quarter of an inch of
recent snow above the crust--but for the most part he broke in
2 or 3 inches-- I slumped from 1 to 3 feet. His tracks when running, as
I have described, were like this--
{drawing} being about 2 by 5 inches as if he slid a little--no
marks of toes being seen in that shallow snow--the greatest
interval above--1 foot-- Soon after thus {drawing} The greatest
interval some-
times 4 feet even. Sometimes the 3 tracks merged together where the crust broke--
{drawing}
When walking at ease before he saw me his tracks were more round--and nearer together--(about 2 inch x 2 1/2) thus {drawing}

Sometimes I thought his tail had scraped the snow--

He went off at an easy gliding pace such as he might keep up for a long time--pretty direct after his first turning.

Feb 11th
Pm to Fair Haven Pond by River
Israel Rice says that he does not know that he can remember a winter when we had as much snow as we have had this winter. Eb. Conant says as much excepting the year when he was 25--about 1803. It is now fairly thawing--the eaves running & puddles stand in some places--

The boys can make snow balls--& the horses begin to slump occasionally.

Saw a partridge by the river side opposite F. H. Hill which at first I mistook for the top of a fence post above the snow--amid some alders--I 4 rods off shouted & waved my hand"to see if it was one--but there was no motion & I thought surely it must be a post--

Nevertheless I resolved to investigate--Within 3 rods I saw it to be indeed a partridge to my surprise--standing perfectly still with its head erect & neck
stretched upward-- It was as com-
plete a deception as if it had de-
signedly placed itself on the line of
the fence & in the proper place for a
post. It finally stepped off daintily
with a tetering gait & head up--

took to wing.

I thought it would be a thawing day
by the sound--the peculiar sound--of cock-
crowing in the morning.

It will indicate what steady cold
weather we have had to say that the
lodging snow of Jan 13th (though
it did not lodge remarkably) has not
yet completely melted off the sturdy
trunks of large trees--

Feb. 12 56

Thawed all day yesterday--& rained some-
what last night, clearing off this morning.
The Thermometer at 8 1/2 Am--42°+
or crust
The snow & cold weather began Dec 26th--
& not till Feb 7th was there any considerable
relenting when it rained a little--i.e.
43 days of uninterrupted cold weather--
& no serious thaw till the 11th or yesterday.

How different the sun light over
thawing snow--from the same over dry
frozen snow. The former excites me
strangely & I experience a spring-like
melting in my thoughts. Water now
stands above the ice & snow on the river.
I find on shovelling away the snow
that there is about 2 inches of solid
ice at the bottom—that thin crusted
snow of Dec 26th. These 2 inches must
be added then to my measures of Jan 12th--16th--
23d--29th--& 30

To day I find it has settled since the
29th, owing of course mainly to the
rain of the 7th ult & especially of last; the
night, about 2 inches in open
land--& 1 1/2 inches in Trillium woods--

Thus W of RR E of RR Trill. Woods
11 1/4(+2=12 1/4 13 1/5(+2=15 1/5
average 12(+2 =

There has been scarcely any loss on the W
side of RR—but 3 3/4 on the E side—It
may be owing to the drifting since the 29th

From Jan 6th to Jan 13 not less than a
foot of snow on a level in open land--
SV forward Mar. 19%
& from Jan 13th to Feb 7th % not less than
16 inches on a level at any one time
in open land--& still there is 14 on a level.
That is for 25 days the snow was 16
inches deep in open land!!

\footnote{1" written over "y"}
\footnote{vertical line drawn between this column and the one to the left of it}
Feb 13th

Grew cold again last night--with high
wind-- The wind began about mid-day-- I think
a high wind commonly follows rain or a thaw
in winter-- The thermometer at 8 1/2 Am is
at zero. (at 1 Pm 8°+)

This fall of 42° from 8 1/2 Am yesterday to
the same time to day--has produced not
thin & very uneven
a "smooth, but a "firm & thick "crust
on which I go in any direction across
the fields stepping over the fences--
Yet there is some slosh at the bottom of
this snow, above the icy foundation.

Now no doubt many sportsmen are
out with their dogs--who have been impi-
soned by the depth of the snow. In the
woods where there are bushes beneath
you still slump more or less--

The crust is quite green with the
needles of pitch pines--sometimes whole
plumes which have recently fallen-- Are these
chiefly last years needles brought down
by the glaze--or those of the previous
year which had not fallen before?

I suspect they are chiefly the former--but
may be some of the latter. V. Feb 14th

Feb 14

Still colder this morning 7°- at 8 1/2
Am.
I find that a great many pine needles—
both white & pitch—of '54 still hold on
bristling around the twigs, especially if the
tree has not grown much the last year—
So those that strew the snow now are of
both kinds.

I can now walk on the crust in every direction
at the Andromeda swamp—can run
& stamp without danger of breaking
through raised quite above the androm-
eda (which is entirely concealed) more
than 2 feet above the ground.

But in the woods—& even in wood
paths—I slump at every other step.

In all the little valleys in the
woods & sproutlands & on the S. E.
sides of hills—the {oak} leaves which
have blown over the crust are gathered
in dry & warm looking beds often
5 or 6 feet in diameter about the
crisply
base of the shrub oaks. So clean & ^dry
& warm above the cold white crust—
they are singularly inviting to my eye—

No doubt they are of service to conceal
& warm the rabbit & partridge & other
beasts & birds—They fill every little hollow
& betray thus at a distance a man’s tracks
made a week ago—or a dogs many
rods off on a hill side
If the snow were not crusted they would not be gathered thus in troops.

I walk in the bare maple swamps & detect the minute pensil nests of some vireo high over my head—in the fork of some unattainable twig where I never suspected them in summer—a little basket cradle that rocked so high in the wind. & where is that young family now? while their cradle is filled with ice?

I was struck today by the size & continuousness of the naturally willow hedge on the E side of the RR. causeway at the foot of the embankment—next to the fence.

Some $10^{1/2}$ years ago when that causeway was built through the meadows was built there were no willows there or near there—but now just at the foot of the sand bank—where it meets the meadow & on the line of the fence—quite a dense willow hedge has planted itself. I used to think that the seeds were brought with the sand from the deep cut in but there is no golden willow there nor indeed in the woods—"but now I think that the seeds have been blown hither from lodged a great distance & lodged against the foot of the bank—just as the snow drift accumulates there—

for I see several ash trees among

$^{1/2}$" cancelled in pencil
them which have come from an ash rod east in the meadow—though none
There are also a few alder elms birch—poplars & some elder—
has sprung up elsewhere. For years a willow
might not have been persuaded to take root
in that meadow— But run a barrier
like this through it & in a few years
it is lined with them. They plant themselves
here solely & not in the open meadow—as
exclusively as along the shores of a river—
The sand bank is a shore to them & the
meadow a lake. How impatient, how
rampant—how precocious these Osiers!
They have hardly made 2 shoots from
the sand in as many springs—when silvery
catkins burst out along them—& anon
golden blossoms—& downy seeds—spreading
their race with incredible rapidity— Thus
they multiply & clan together. Thus
they take advantage even of the RR—
which elsewhere disturbs & invades their
domains. May I ever be in as good
spirits as a willow.%% They never despair—
Is there no moisture longer in Nature which
they can transmute into sap. They are emblems
of youth—joy & everlasting life. Scarcely
is their growth restrained by winter
but their silvery down peeps forth
in the warmest days in January (?)
The very trees & shrubs & weeds—if we consider their origin have drifted thus like snow against the fences & hill sides. Their growth is protected & favored there. The willow—how tenacious of life—how withy—how soon it gets over its hurts! Soon the alders will take their places with them. This hedge is of course as straight as the rail-road or its bounding fence.

Over this crust alder & birch & pine seeds &c which in summer would have soon found a resting place—are blown far & wide.

Feb 16th '56

Pm to Walden—

It has been trying to snow for 2 days—

about 1 inch fell last night but it clears up at noon & sun comes out very warm & bright. Wild says it is the warmest day at 12 M since the 22nd of Dec. when the therm. stood at 50°+ today it is at 44. I hear the eaves running before I come out—& our thermometer at 2 Pm is 38°+. The sun is most pleasantly warm on my cheek—the melting snow shines in the ruts—the cocks crow more than usual in barns—my great coat is an incumbrance—There is no down visible on

the sallows when I descend the E side

195"is" written over "no"
of the RR--unless a scale has come off.

Where I measured the ice in the mid--
of Walden on the 6th ult I now measure
again, or close by it, though without cutting
(prob about same as the 6th when called 11 1/2--)
out the cake-- I find about 11 1/4 "of snow-ice
& 21 1/2 in all--leaving 10 1/4 clear ice.
Which would make the ice to have increased
beneath through all this thickness & in spite
of the thaws 2 3/4- inches

Near the shore in one place it was 22 inches
Feb 17th

Some 3 or 4 inches of snow fallen in the night

& now blowing--
At noon begins to snow again--as well as
{blown}-- Several more inches fall--
Feb 18

Yesterday's snow drifting-- No cars
from above or below till 1. Pm.
Feb 19th

Measure snow again--on ac. of what
fell on 17th--

<table>
<thead>
<tr>
<th>W of RR</th>
<th>E of RR</th>
<th>av of Trill. Wood</th>
</tr>
</thead>
<tbody>
<tr>
<td>15+(+2)</td>
<td>12 1/2--(+2)</td>
<td>Both 18 1/2 +2 (20 1/2</td>
</tr>
<tr>
<td>14 +2 (16</td>
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The great body of the last snow ap. to have
settled under the E side of the RR-- There are 5 1/2
inches more in the wood than on the 12th ult--4 I
think this is about the av. of what fell on the 17th
(night & day) Ac. the snow has been deeper since
the 17 than before this winter-- I think if the drifts
could be fairly measured it might be found to
be 17 or 18 inches deep on a level.

This snow, you may say, is all drifted--
for in the fields E of the RR there is not
so much as there was a week ago, while W
there is about 4 inches more.

Feb 20th '56

P. m. Up Assabet--

See a broad and distinct otter trail
made last night or yesterday-- It came
out to the river through the low woods
N of Pinxter swamp--making a very
conspicuous trail from 7 to 9 or 10
or 4
inches wide & 3\(^3\) deep -- with sometimes
singularly upright sides--as if a square
\{drawing\}
timber had been drawn along-- but com-
monly rounded--\{drawing\} It made some
short turns & zig-zags--passed under
limbs which were only 5 inches above the
snow--not over them--had ap. slid
down all banks and declivities--making
a uniform broad hollow trail there
without any mark of its feet-- On
reaching the river it had come along
under the bank-- from time to time
looking into the crevices where it might
get under the ice there-- some times as-
cending the bank and sliding back--
On level ground its trail had this
Commonly 7 to 9 or 10 inches wide & tracks of feet 20 to 24 apart--but sometimes there was no track of the feet for 25 feet--frequently for 6-- In the last case **swelled** in the outline as above. 

Having come down as far as "the Great white on the hill"--it returned on its track & entered a hole under the ice at Assabet spring from which it has not issued.

Feb 22nd

Pm to Assabet Stone bridge & home on river--It is a pleasant & warm P. m. & the snow is melting--Yet the river is still perfectly closed--(as it has been for many weeks) both against Merricks & in the Assabet--except under this upper Stone bridge & prob at mouth of Loring's Brook. I am surprised that the warm weather within 10 days has not caused the river to open at Merricks--but it was too thick to be melted

Now first--the snow melting & the ice begining greyish to soften-- I see those slender "winged insects creeping "over the ice {drawing} Perla (?) from 1/3 of an inch to an inch long On all parts of the river of various sizes &c--& every warm day afterward-- Have seen none before--this winter. Have in fact 4 wings /V. snow & ice

196 "B" written over "b"
Just below this bridge begins an otter track several days old--yet very distinct which I trace half a mile down the river-- In the snow less than an inch deep on the ice each foot makes a track 3 inches wide--ap enlarged in melting--& the whole 4 appear thus-- The clean interval [drawing] the length occupied by the 4 feet = 14 inch. It looks as if some one had dragged a round timber down the middle of the river a day or or two since--which bounced as it went.

There is now a crack running down the middle of the river & it is slightly elevated there owing prob to the [increasing] temperature.

Feb 23d 9 Am to F. H. Pond up river--

A still warmer day-- The snow is so solid that it still bears me--though we have had several warm suns on it. It is melting gradually under the sun. In the morning I make but little impression in it. As it melts it acquires a rough but regularly waved surface. It is inspiring to feel the increased heat of the sun reflected from the snow-- There is a slight mist above the fields--through

19"T writes the caption "16 inches" above drawing
which the crowing of cocks sounds spring-like.

I sit by a maple on a maple-- It wears
the same shaggy coat of lichens summer &
winter.

At 2 Pm the Therm. is 42°+ Whenever
it is near 40 there is a speedy softening
of the snow.

I read in the papers that the ocean
¾/not to bear or walk on safely¾
is frozen--¾° or has been lately--on the bank-
side of Cape Cod--at the Highland Light
one mile out from the shore-- A phe-
nomenon which, it is said, the oldest have
not witnessed before--

Feb 24th

Dr Jarvis tells me that he thinks there
was as much snow as this in '35 when
he lived in the Parkman House & drove
in his sleigh from Nov 23d to March 30th
excepting one day.

Feb 25th

Pm. to Walden--& Fair Haven--
The only bare ground is the RR tracks--where
the snow was thin. The crust still bears--& left
the RR. at Andromeda ponds--& went through
some little minnows only an inch long in an
open place in Well Meadow Brook-- As
I stood there saw that they had just felled
my bee tree the hemlock--the chopper
& saw him cut into the cavity by my direction.
He broke a piece out of his axe as big as
hemlock
my nail against a knot in the mean-
while. There was no comb within.

They have just been cutting wood
at Bittern Cliff--the sweet syrup is
out on the ends of the hickory logs
there.

Gathered some facts from
Henry Bond's Genealogies of the Families of
Watertown &c--

My mother's mother was Mary Jones,
only daughter of--"Col. Elisha Jones, Esq.,
of Weston. A Boston newspaper, of Feb. 15th
1775, says: 'On Monday last, died, in this
town, in the 66th year of his age, Elisha Jones
Esq., late of Weston, for many years a magis-
trate, Col. of a regiment of Militia, and mem-
ber of the General Assembly. In the many de-
partments in which he acted, he eminently shewed
the man of principle, virtue,' &c. He married,
Jan 24, 1733-4, Mary Allen, and occupied his
father's homestead". [Mary Allen was the
dr. of Abel Allen--who was the son of Lewis
Allen of Watertown Farms who died 1707-8]
The children of E Jones & Mary Allen were
1 Nathan 2d son died in infancy 3 Elisha 4 Israel

198"F" written over "f"
b. 1748
5 Daniel 6 Elias 7 Josiah 8 Silas—9 Mary
10 Ephraim 11 Simon (or Simeon) 12 Stephen 13 Jonas
14 Phillemore 15 Charles.

born 1710
Col. Elisha Jones was the son of Capt. Josiah
Jones (born 1670 in Weston) & Abigail Barnes.

Capt. Josiah Jones was the son of Josiah Jones of Watertown Farms (born 1643) and Lydia Treadway (dr of Nathaniel Treadway & who died in Watertown 1689).

Josiah Jones was son of Lewis Jones (who appears to have moved from Roxbury to Watertown about 1650) & died 1684) and Anna (perhaps Stone?) This Josiah born in England.

Jones in 1666 bought "of John Stone & Wife Sarah, of Wat., a farm of 124 acres on the N side of Sudbury highway, about 2 miles from Sud."

Feb 26th

I see at bottom of the Millbrook—below Emersons—2 dead frogs—the brook has part way yet a snowy bridge over it.--. Were they left by a mink or killed by cold & ice? In Hubbard's maple swamp beyond I see the snow within a few days sprinkled with the saw dust like bits of wood under a dead maple where a woodpecker has drilled a handsome round hole-- Excepting the carrying it downward within it is ready for a nest-- May they not have a view to this use even now?
Wednesday Feb 27th '56

Pm-- Up Assabet--

Am surprised to see how the ice lasts on

// the river-- It but just begins to be open
for a foot or 2 at Merrick's--&

you see the motion of the stream--

it has overflowed the ice for many

rods a few feet in width-- It has been

tight even there (and of course every where else

on the main stream--& on N. Branch except

at Loring's Brook & under Stone bridge) since

Jan 25th, and elsewhere on the main stream

since Jan 7th--as it still is. That is we

may say that the river has been

frozen solidly for 7 weeks-- On the

25th ult I saw a load of wood
drawn by 4 horses up the middle of
the river above Fair Haven Pond.

On that day--the 25th--they were cutting
the last of Baker's woodlot on the S side
of Fair Haven-- They cut the greater part
of it last winter--& this was the wood
they were hauling off.

I see many birch scales freshly blown over
the snow-- They are falling all winter--

What is that narrow twisted yellowish

brown scale--which is seen on the snow all

winter near woods? shaped like this {drawing}

{prob. pine stipule} {drawing} ¾ Found in the snow in E. Hosmer's
The papers are talking about the prospect of a war between England & America—neither side sees how its country can avoid a long & fratricidal war without sacrificing its honor—Both nations are ready to take a desperate step—to forget the interests of civilization & christianity & their commercial prosperity—and fly at each other's throats. When I see an individual thus beside himself—thus desperate—ready to shoot or be shot—like a black leg—who has little to lose—no serene aims to accomplish—I think he is a candidate for bedlam— What asylum is there for nations to go to?

Nations are thus ready to talk of wars & challenge one another—because they are made up to such an extent of poor low-spirited despairing men—in whose eyes the chance of shooting somebody else without being shot themselves exceeds their actual good fortune. Who in fact will be the first to enlist but the most desperate class—they who have lost all hope—and they may at last infect the rest.

Minot says that partridges will bud on black birches as on apple trees.
Feb 28th '56

Pm to Nut Meadow--

Mother says that the cat lay on her bread one night & caused it to rise finely all around her.

I go on the crust which we have had since the 13th--i.e. on the solid frozen snow which settles very gradually in the sun--across the fields & brooks.

The very beginning of the river's breaking up--appears to be the oozing of water through cracks in the thinnest places & standing in the shallow puddles there on the ice--which freeze solid at night.

The river & brooks are quite shrunken. --The brooks flow far under the a foot thick hollow ice & snow crust--which here and there has fallen in showing the shrunken stream far below-- The surface of the snow melts into a regular waved form--like raised scales.

Miles is repairing the damage done at his new Mill by the dam giving way. He is shovelling out the flume which was half filled with sand--standing in the water. His saw-mill built of slabs reminds me of a new country.

He has lost a head of water equal to 2 feet by this accident-- Yet
he sets his mill a-going to show me how it works-- What a smell as of gun-wash when he raised the gate--

He calls it the sulphur from the pond--. It must be the carburetted hydrogass from the bottom of the pond under the ice. It powerfully scents the whole mill. "How pleasant are the surroundings of a mill!

Here are the logs (pail-stuff) already drawn to the door from a neighboring hill before the mill is in operation-- The dammed up meadow the meadow--the melted snow

--and welling springs--are the serfs he compels to do his work-- He is unruly as yet--has lately broke loose--filled up the flume & flooded the fields below

He uses the dam of an old mill which stood here a hundred years ago-- which now nobody knows anything about.

The mill is built of slabs--of the eaten sap-wood. The old dam had prob- been undermined by muskrats-- It would have been most prudent to have built a new one. Rude forces--rude men-- & rude appliances--

Martial Miles who is there--says that there are many trout in this brook-- He sees them running down just before winter--& at that time Charles Snow

---28---

---29---

---30---

---31---
once speared a great many--
one
weighing 4 lbs.-- He
once came within 4 feet of an otter
at 10 Pm in the middle of the
road by the guide board just north
of this brook-- Spoke of the one
shot in a ditch at Donge Hole
as I had heard before--also of the
3 killed--shot--at Farrar's swamp--
The one who shot them told him
that he attempted to kill them with a
shovel, but that they would take it out
of his hands as often as he attempted
it.
Coombs came along with his dog &
gun on his way to shoot partridges
which will come out to bud this evening
on certain young apple trees-- He
has got 4 or 5 for several nights in
succession--& sees foxes there running about on
the crust.
Francis Wheeler says he sold two young fox-
skins to a tin peddlar today for a dollar
--Coombs says they got a silver-gray fox
in Lincoln this winter & sold its skin for
16 dollars!! He says that he
// killed a shelldrake a month or
6 weeks ago in a small open place
beneath the falls at the Factory.
This shows what hardy birds they are.
Last summer--he found
a black ducks nest on one of the islands
in Loring's Pond-- He saw the duck hide
in the grass-- Came up & put his hand
on a parcel of feathers & raising a
handful was surprised to find the eggs
under them.

How various the talents of men--!
From the brook, in which one lover of
nature has never during all his life time
detected anything larger than a minnow
another extracts a trout that weighs
3 lbs--or an otter 4 feet long.

How much more game he will see
who carries a gun--i.e. who goes to see it!
Though you roam (the) woods all your
days--you never will see by chance--what
he sees who goes on purpose to see it.

One gets his living by shooting wood cocks--
most never see one in their lives--

Coombs goes to shoot partridge this evening
by a a far off wood side-- M Miles goes
home to load up--for he is going to Boston
with a load of wood tonight.

Our young Maltese cat Min--which
cold
has been absent 5 *nights--the ground
covered deep with crusted snow--her first
absence--and given up for dead--has
at length returned at day light--awakening
the whole house with her mewing
& afraid of the strange girl we have got in the mean while
she is a mere wrack of skin & bones
--with a sharp nose & wiry tail
She is as one returned from the dead--
There is as much rejoicing as at the
return of the prodigal son--& if we had
a fatted calf we should kill it.

Various are the conjectures as to her
adventures--whether she has had a
fit--been shut up somewhere or lost--
torn in pieces by a certain terrier or frozen to death.
In the mean while she is fed with the best
saucers of
that the house affords--minced meats &
warmed milk--& with the aid of unstinted
sleep in all laps in succession is fast
picking up her crumbs. She has already
found her old place under the stove--and
is preparing to make a stew of her brains
there.

That strong gun-wash scent from the
mill pond water was very encouraging.
I who never partake of the sacrament make the more of it.
How simple the machinery of the mill--

Miles has dammed a stream--raised a pond or
horizontal
head of water & placed an old "mill-wheel
in position to receive a jet of water in its
buckets--transferred the motion to a
horizontal shaft & saw by a few cog-
wheels & simple gearing & throwing a
roof of slabs over all--at the out-
let of the pond-- You have a mill.

Returning on the crust over
Puffer's place--I saw a fine plump
hen hanging from an apple tree & a
crow from another--prob. poisoned to
kill foxes with-- A hen which prob. a fox
had killed.

Stopped at Martial Miles' to taste his cider--
marvellously sweet & spirited without being bottled
--alum & mustard put into the barrels.

A weight of water stored up in
a meadow, applied to move a saw--which
scratches its way through the trees placed
before it. So simple is a saw-mill

A mill wright comes & builds a dam
across the part of the meadow--& a mill
pond is created--in which at length fishes of
various kinds are found-- (The pond is
like a weight wound up.) & muskrats
& minks & otter frequent it.

Feb 29th 56

Minot told me this P. m. of his catching
a pickerel in the mill brook once--before
the pond was drawn off--when the brook had
4 or 5 times as much water as now--
which weighed 4 lbs-- Says they stayed
in it all winter in those days-- This was
near his land up the brook-- He once
when fishing for pickerel
also caught there ^a trout which weighed
3 1/2 lbs--he fell within 2 feet of the water--
but succeeded in tossing him higher up--
When cutting peat thereabouts he saw
a stinkpot turtle in the water eating a
frog which it had just caught.

Speaks of seeing a mink swimming along
a little in his beech wood lot--& from
time to long running along the shore
--part way up an alder & down again

He loves to recall his hunting
days & adventures-- And I willingly
listen to the stories he has told me half
a dozen times already. One day he saw
about 20 black ducks on Goose Pond
& stole down on them thinking to get
a shot--but it chanced that a stray
dog scared them up before he was
ready. He stood on the point of the
neck of land between the ponds & watched
them as they flew high toward (Flint's)
Pond. As he looked he saw one separate
from the flock when they had got
half way to Flint's Pond--or half a mile--
& return straight toward Goose Pond
again. He thought he would await
him & give him a shot if he came
near enough-- As he flew pretty near
%rather% & %%low--he fired--whereupon the
duck rose right up high into the
air, & he saw by his motions that
he was wounded-- Suddenly he

205"F" written over "f"
dropped like a stone by a slanting
fall into the point of a thick pine
wood--& he heard him plainly strike the
ground like a stone. He went there &
searched for long time--& was about
giving it up--when at length he saw
the duck--standing still alive & bleeding
by the side of a stump--& made out
before he could
to kill him with a stick. reach the water.

He said he saw Emerson come home from
lecturing the other day with his knitting
bag (lecture bag) in his hand. He asked
him if the lecturing business was as good
as it used--to be-- Emerson said he did--
't see but it was as good as ever--
guessed the people would want lectures
"as long as he or I lived."

Told again of the partridge hawk
striking down a partridge which rose
before him & flew across the run in
the beech woods.--how suddenly he did
it--& he hearing the fluttering of the
partridge came up & Secured it while
the hawk kept out of gun shot.

March 1st '56
9 Am to Flints Pond via Walden--
by RR--& the crust.

I hear the hens cackle as not before for many
months. Are they not now beginning to lay?
The catkins of the willow by the causeway

& of the aspens--ap to have pushed out
a little further than a month ago.
I see the down of half a dozen on that
willow by the causeway-- On the aspens pretty
generally. As I go through
the cut--it is still, warm, & more
spring like
or less sunny--*(about 40°*) & the sand
& reddish subsoil is bare for about
a rod in width--on the RR-- I hear
several times the fine drawn phe-be
note of the chicadee--which I heard only
once during the winter-- Singular that I
should hear this on the first spring day.

I see a pitch pine seed with its wing
far out on Walden-- Going down the
hill to Goose Pond I slump now & then.
Those dense dry beds of leaves are gathered
especially about the leafy tops of young oaks
which are bent over & held down by the snow--
They lie up particularly light & crisp.

The birch stubs stand around Goose-
pond--killed by the water a year or 2 ago
5 or 6 feet high & thickly--as if they were
an irregular stake fence a rod out.

Going up the hill again I slump in up
to my middle.

At Flints I find haf a dozen fishing
The pond cracks a very little while I am
there say at half past 10. I think I
ever saw the ice so thick--it measures just
2 feet thick [in] shallow water 20 rods from //
shore.

Goodwin says that somewhere where
he lived they called cherry-birds port-
royals.

Haynes of Sudbury brought some axe helves
which he had been making to Smith's
shop to sell today-- Those made by hand
are considered stronger than those which are
turned because their forms outline con-
forms to the grain. They told him they
had not sold any of the last yet-- "Well",
said he, "you may depend on it you will.
They've got to come after them yet--for
they haven't been able to get into the
woods this winter on account of the
snow--& they'll have to do all their
chopping this month."

I like to see the farmer whittling his own
axe-helve, as I did E. Hosmer a white oak
one on the 27th ult.

It is remarkable, that though I have
not been able to find any open place in
the river almost all winter--except under
the further Stone Bridge & at Loring's Brook--this winter
winter so remarkable for ice & snow--that Coombs
should (as he says) have killed 2 shell drakes
at the falls by the factory--a place

---

208"any" written over "and" in pencil--"&y%" written over "d"
209"B" written over "b"
210"B" written over "b"
which I had forgotten—some 4 or 6 weeks ago—Singular that this hardy bird should have found this small opening, which I had forgotten, while the ice everywhere else was from 1 to 2 feet thick & the snow 16 inches on a level—If there is a crack—amid the rocks of some water fall this bright diver is sure to know it. Ask the shell-drake whether the rivers are completely sealed up—

Mar. 2nd 56

// Has snowed 3 or 4 inches—very damp snow in the night—stop about 9 Am. This will prob help carry off the old snow so solid & deep—

P. m. Walking up the river by Prichards am surprised to see on the snow over the river a great many seeds and scales of birches—though the snow had so recently fallen, there had been but little wind, & it was already spring. There was one seed or scale to a square foot—yet the nearest birches were about 15 of them along the wall 30 rods east. As I advanced toward them the seeds became thicker & thicker till they quite discolored the snow half a dozen rods distant.—while east of the birches there was not
one. The birches ap. not to have lost
a quarter of their seeds yet-- As I went
home up the river I saw some of the
seeds 40 rods off--& perhaps in
a more favorable direction I might
have found them much further. It sug-
gested how unwearied Nature is spreading
her seeds-- Even the spring does not find
her unprovided with birch--aye & alder
& (pine) seed-- A great proportion of
the seed that was carried to a distance lodged
in the hollow over the river--& when the river
breaks up will be carried far away
to distant shores & meadows.
The opening in the river at Merricks is now
increased to 10 feet in width in some places.
I can hardly believe that henhawks
may be beginning to build their nests
yet their young were a fortnight
old the last of April last year--
Mar 3\textsuperscript{3\textdegree}d To Cambridge
Mar 4\textsuperscript{3\textdegree}th-- To Carlisle--Surveying.
I had 2 friends. The one
offered me friendship on such terms
that I could not accept it, without
a sense of degradation-- He would not
meet me on equal terms--but
only be to some extent my patron.
He would not come to see me, but

\textsuperscript{211}"their" poss written over "I p"
\textsuperscript{212}"3" written over "4"
\textsuperscript{213}"4" written over "5"
was hurt if I did not visit him—He would not readily accept a favor—
but would gladly confer one—He treated me with ceremony occasionally—though
he could be simple & down right some-times.—and from time to time acted
a part treating me as if I were a distinguished stranger—{Was} on stilts—
using made words. Our relation was one long tragedy—for I did not
directly speak of it.—I do not believe in complaint, nor in explanation
The whole is but too plain alas already.
We grieve that we do not love each other—that we cannot confide in each other. I could not bring my-
self to speak and so recognize an obstacle to our affection—

I had another friend, who through a slight obtuseness perchance did not recognize a fact—which the dignity of friendship could by me no means allow to descend so far as inevitable to speak off—a yet the "effect of that ignorance was to hold us apart forever.

Mar 5th ’56
Snowed an inch or two in the night Went to Carlisle—surveying
It is very bad turning out there is so much snow in the road-- Your horse springs & flounders in it. The snow in the wood-lot which I measured was about 2 feet on a level.

Mar 6th

P. m. Up Assabet--

The snow is softening-- Methinks the lichens are a little greener for it. A slight thaw comes & then the birches which were grey on their white ground before--appear prettily clothed in green-- I see various kinds of insects out on the snow now-- On the rock this side the leaning hemlocks-- is the track of an otter. He has left some scentless jelly like substance 1 1/2 inches in diameter there--yellowish beneath--may--be part of a fish--or clam (?) or himself--

The leaves still hanging on some perhaps young swamp white oaks are remarkably fresh almost ochre colored brown.

See the snow discolored yellowish under high a prob. gray squirrel's nest in a pitch pine & acorn shells about on it.

Also a squirrel's track--on the snow over Lee's Hill\(^{215}\). The outside toe on the fore feet is nearly at right angles with the others. This also distinguishes it from a rabbit's track. It visits each apple tree--

\(^{215}\)"H" written over "h"
digs up frozen apples & sometimes fil-
berts--& when it starts again aims for
an apple tree--though 15 rods distant.

Mar. 7th. 56
Pm. Measured snow on account of

snow which fell 2nd & 4th

W of RR 16+216 E of RR Av. say Trill. Wood217 21
16+ 16+

//

Prob. quite as deep as any time before,
this year-- There are still 2 or more inches
of ice next the ground in open land--

I may say that there has not been less than
16 inches of snow on a level in open land--since Jan.
13th--unless there was a little less just before the
snow of the 2nd ult--certainly not less than 15 inches.

? My stick entered the earth & for the most part in the wood as it has not done
before.
There has been some thawing under the snow
Mar 9th

! Thermometer at 2 pm 15+ 16 inches

hard & dry

of snow on a level in open fields--ice

in Flints' Pond 2 feet thick--and

the aspect of the earth is that of

the middle of January in a severe
winter. Yet this is about the date that
A Pail of water froze nearly 1/2 inch
blue-birds arrive commonly. thick in my chamber
with fire raked up.
The train which should have got down last night did not arrive till
this Pm. (Sunday) having stuck in a drift
Mar 10th

//

Thermometer at 7 Am 6' below zero.
Dr Bartletts between 6 1/2220 & 7 Am was at 13'--
Smith's at 13 or 14'--at 6 Am.

Pm up river to Hubbard Bridge

Thermometer 9'+ at 3 1/2 pm (the same when

216 "16+" inserted
217 "Wood" altered from "wood"
218 "there" altered from "it"
219 "till" altered from "this"
220 "6 1/2" altered from "5 1/2"
I return at 5) The snow hard & dry--squeaking under the feet--excellent sleighing-- A biting NW wind compel* to cover the ears-- It is one of the hardest days of the year to bear-- Truly a memorable 10th of March-- There is no opening yet in the main stream at Prichards--Hub Bath*--or the Clam Shell or {nor*) prob. anywhere but at Merrick's-- A bit a dozen rods long by 10 feet. And it is tight & strong under the bridges A blue bird would look as much out of place now as the 10th of January.

I suspect that in speaking of the springing of plants in previous years I have been inclined to make them start too early generally.

The ice on Ponds is as solid as ever-- There has been no softening of it-- Now is a good time to begin to cut--only its great thickness would hinder you. The blue shadows on snow are as fine as ever. It is hard to believe the records of previous years--

I have not seen a tree-sparrow methinks since January-- Probably the woods have been so generally buried by the snow this winter, that they have migrated further south. There has not been one in the yard the past winter--nor a red-poll. I saw perhaps one red-poll in the town that is all.

The crows are feeding in the road today in front of the house--4 alighting on

---

*Bath” altered from “bath”

*222 “nor” poss altered from “wood”
the elms as in the middle of
the hardest winter--for such is
this weather--The blue jays hop about in yards--
The past has been a winter of such
unmitigated severity that I have not
chanced to notice a snow-flea--which
{are so} coming in thawing days.
I go over the fields now in any di-
rection sinking but an inch or two to the
old solid snow of the winter.
In the road you are on a level
with the fences--and often consider-
ably higher--that sometimes where
it is a level causeway in summer
you climb up & coast down great
swells of hard frozen snow--much
higher than the fences--
I may say that I have not had
to climb a fence this winter but have
stepped over them on the snow--
Think of the art of printing what
miracles it has accomplished--covered
the very waste paper which flutters
under our feet like leaves & is almost
as cheap--a stuff now commonly put
to the most trivial uses--with
thoughts & poetry. The wood chopper
reads the wisdom of ages recorded
on the paper that holds his dinner--
then lights his pipe with it-- When
we ask for a scrap of paper

---

223 "The...yards---" inserted
224 newspaper clipping labeled "Meteorological." stuck in journal at this point
225 "accomplished" inserted
for the most trivial use it may
have the confessions of Augustine or
the sonnets of Shakespeare--& we won't
observe it-- The student kindles his
fire, the editor packs his trunk, the
sportsman loads his gun--the traveller
wraps his dinner--the Irishman
his shanty--the school boy peppers
the belle pins up her hair
the plastering--with the printed
thoughts of men-- Surely he who can
see so large a portion of earth's surface
(found) thus darkened with the record of
human thought & experience--& feel no
desire to learn to read it--is without
curiosity. He who cannot read--is worse than deaf & blind--is yet but
half alive--is still born.

Still there is little or no chopping--
for it will not pay to shovel the snow
away from the trees--unless they are
quite large--& then you must work
standing in it 2 feet deep-- There
is an eddy about the large trees beside
which produces a hollow in the snow
it lies close up to
about them--but the small ones on every
side.

10 Pm Therm. at zero //
I read, when last at Cambridge, in the
Philad. Phil. trans. that in the cold winter

226 "I" written over text
227 "it" written over "the"
insects
of 1780--many shell-fish--frogs--&c as well
as birds & plants perished.

Mar 11th 56

Thermometer at 7 Am 6° + Yet the
fire going out Sophia's plants are frozen
Dr Bartlett's was 4° -

When it is proposed to me to go abroad
--rub off some rust-- & better my --cond-
dition in a worldly sense--I fear lest
my life will lose some of its homeliness. 228
If these fields & streams & woods--
the phenomena of nature here-- & the
simple occupations of the inhabitants
should cease to interest & inspire me--
no culture or wealth would atone for
the loss. I fear the dissipation that travelling
--going into society even the best--the en-
joyment of intellectual luxuries--imply.
If Paris is much in your mind--if it is
more & more to you--Concord is less & less 229
& yet it would be a wretched bargain
to accept the proudest Paris 230 in exchange
for my native village. At best
Paris could only be a (skool) in which
to learn to live here--a stepping stone
to Concord--a school in which to fit
for this University.

I wish so to live ever as to derive my satis-
factions & inspirations from the commonest
events--everyday phenomena--so that
what my senses hourly perceive--my
daily walk--the conversation of my

228 newspaper clipping labeled "Effects of the Cold Weather." stuck in journal at this point
229 "& less" altered from "--"
230 "Paris" altered from "paris"
neighbors may inspire me--& I may
dream of no heaven but that which
lies about me. A man may ac-
quire a taste for wine or brandy--& lose his love for water--but should we
not pity him?

The sight of a marsh hawk in Concord
meadows is worth more to me than
the entry of the allies into Paris.

In this sense--I am not ambitious. I do
not wish my native soil to become ex-
hausted & run out through neglect--

Only that travelling is good which reveals to me the value of home & enables me to enjoy it better. That man is the richest, whose pleasures are the cheap-
est.

It is strange that men are in such haste to get fame as teachers--rather than knowledge as learners.

I hear that Goodwin found one of his traps frozen in" where it has not frozen before this year.

P. m. 3 1/2 Therm. 24°+

Cut a hole in thice in the middle of Walden. It is just 24 1/4 inches //
thick--11 1/2+ being snow ice 12 3/4 water ice & there is between 3 & 4 inches of crusted snow above this. The water rises to
within 2 1/2 inches of the top of the
ice--i.e. between a 9th & 10th of the
whole thickness. The clear ice
has therefore gained 2 3/4 inches
beneath since the 16 of Feb. It
has gone on freezing under 21 1/2
inches of ice-- Yet people very com-
monly say that it will not continue
to freeze under half that thickness
of snow & ice. It is a job to cut
a hole now--
Snow and ice together make a curtain
28 inches thick now drawn over the
pond. Such is the prospect of
the fishes!234

Mar 12th
The last 4 cold days have closed
// the river again against Merricks235--&
few small
prob-- the"other" places which may
have opened--in the town--at the mouth
of one or 2 brooks.
I hear from 2 sources of portions of brooks &c
being frozen over within 2 or 3 days which
had not frozen before this winter.

We had a colder day in the winter
of 54 & 5--than in the last--yet the
ice did not get to be so thick-- It
is long continued steady cold which
produces thick ice-- If the present

231 "pond." altered from "pond--"
234 "!" altered from "?"
235 "Merricks" altered from "merricks"
cold should continue uninterrupted a thousand years would not the pond become solid?

Rufus Hosmer says he has known the ground here to be frozen 4 feet deep

I never saw such solid mountains of snow in the roads-- You travel along excellent for many rods over dry solid sleighing where the road is perfectly level not thinking but you are within a foot of the ground--then suddenly descend 4 or 5 feet--and find to your surprise that you had been traversing the broad back of a drift.

The crow has been a common bird in our street & about our house the past winter--

One large limb of the great elm at Davis--sawed off presented this outline (drawing) a perfect harp--

Mar 13th

Pm to Flint's Pond

Much warmer at last-- On Flint's Pond--I cut a hole & measured the ice at 22 rods from the shore nearest to Walden--where the water was 9 feet deep--(measuring from its surface in the hole)

The ice was 26 inches thick

---

236 "known" altered from "seen"
237 "rods" altered from "roads"
13 1/2 of it being snow ice—& the ice rose above the water 2 inches—
This ice is as solid as at any time in the winter—3 inches of Snow above—It was so much work to cut this hole with a dull axe—that I did not try any other place where it may have been thicker. Perhaps it was thicker in the middle as in '47. Prob. not. judging from Walden—V 19th proximo.

Friday Mar 14th 56

quite warm. Therm. 46°+ 3d Pm up Assabet—

The ice formed the forefront of this week—

—as that at merricks noticed on the 12—

heard of elsewhere in the mill-brook—appears to have been chiefly snow ice—though no snow fell—It was ap. blown into the water during those extremely cold nights & assisted its freezing. So that it is a question whether the river would have closed again at Merrick's on the night of the 10 & 11th ult—

notwithstanding the intense cold—if the snow had not been blown into it—

a question, I say, because the snow was blown into it.

I think it remarkable that cold as it was—I should not have supposed from my sensations that it was nearly so cold as the thermometer indicated.

Tapped several White maples with my knife—but find no sap flowing.

238"Prob....proximo." inserted
but just above Pinxter\textsuperscript{239} Swamp\textsuperscript{240}--one red maple-limb was moistened by sap trickling along the bark--Tapping\textsuperscript{241} this I was surprised to find it flow freely. Where the sap had dried on the bark--shining and sticky it tasted quite sweet-- Yet Anthony\textsuperscript{242} Wright tells me that he attempted to trim some apple trees on the 11th ult--but was obliged to give up it was so cold-- They were frozen solid.\textsuperscript{243} This is the only one of 8 or 10 White & red maples--that flows--I do not see why it should be..

As I return by the old Merrick bath Place-- on the river--for I still travel every where on the middle of the river--the\textsuperscript{244} setting sun falls on the osier row toward the road-- and attracts my attention. They certainly look brighter now & from this point, than I have noticed them before this year--greenish & yellowish below & reddish above--\& I fancy the sap fast flowing in their pores-- Yet I think that on a close inspection I should find no change. Never the less, it is on the whole perhaps the most springlike sight I have seen. \%V 2 ps forward\%

Mar 15th

Put a spout in the red-maple of yesterday & hung a pail beneath to catch the sap--

Mr Chase (of the Town School) who has lived a hundred

\textsuperscript{239} "Pinxter" altered from "pinxter"
\textsuperscript{240} marks on page in upper corner of this paragraph--possibly from copying a creased page. Continues for next 3 pages, as well
\textsuperscript{241} "t" corrected to "T"
\textsuperscript{242} "Anthony" altered from "anthony"
\textsuperscript{243} "solid." possibly "solid--"
\textsuperscript{244} "the" written over "I"
miles dist. in N.H. speaks of the snow fleas
as a spring phenomenon--(prob. because the
winter is more uniformly cold245 there)--& says that
they think it time to stop making maple sugar
when they observe them. They get into the
by myriads
sap" & trouble them much.

Mar 16th

? Am. The sap of that red maple has not begun
to flow yet-- The few spoonfuls in the pail &
in the hole are frozen.

These few rather warmer days have made
a rough snowy
a little impression on the river-- It246 shows"ice in
many places--suggesting247 that there is a river
beneath--the snow having probably--blown
& melted off there--or the water oozed up--
(Put the last cause first)248
A rough softening snowy ice--with some
darker spots where you suspect weakness--
though it is still thick enough--

2 Pm The red maple is now
about 1 inch deep in a quart
pail--{nearly} all caught since morning--
It now flows at the rate of about
6 drops in a minute-- Has probably
flown faster this forenoon-- It is
perfectly clear like--water-- Going
throwing the pail over my head to save myself
home slipped on the ice"& spilt
all but a pint. So it was lost on
the ice of the river-- When the river breaks
up it will go down the Concord into
the Merrimack--& down the Merri-
mack into the sea--& there get salted
as well as diluted--part being boiled
into sugar. It suggests, at any rate--
what various liquors, beside those con-
taining salt, find their way to the
sea--the sap of how many kinds of
trees?

There is at any rate such a phe-
nomenon as the willows shining in the
spring sun--however it is to be accounted for.

Mar. 17th Monday

Snow going off very gradually under the
sun alone--Going begins to be bad--horses

slump--{hard} turning out.  cattle which have
stepped a few inches

one side the sled track have {slumed} 2 feet or more leaving great holes.

Mar 18th

P. m. Up River--

It is still quite tight up Hub's Bath--

Bend--and at Clam Shell--though I
hesitate a little to cross at these places--

There are dark spots in the soft white
ice--which will be soon worn through.

What a solid winter we have had--

--no thaw of any consequence--no bare
ground since Dec 25th--but an unmelting
mass of Snow & ice--hostile to all greenness.

have not seen a green radical leaf
even--as usual. %all being covered up%

Nut Meadow Brook is open for a

---accounted" altered from "accounts"
---B" poss written over "b"
dozen rods from its mouth--& for a
rod into the river-- Higher up it
is still concealed by a snowy bridge.
2 feet thick
// ^I see the ripples made by some fishes,
which were in the small opening at its
mouth--making haste to hide them
selves\textsuperscript{251} in the ice covered river. This
square rod & one or 2 others like it
in the town, are the only places where
Thus early they appear ready to be the prey of the fishhawk
I could see this phenomenon now-- Within
\begin{verbatim}
// the brook I see quite a school of
\end{verbatim}
or over
\begin{verbatim}
little minnows an inch long amid the
\end{verbatim}
bare dead stems of Polygonums--and one
\begin{verbatim}
// or little water-bugs. (apple-seeds).
The last also in the broad ditch on the Corner-road in Wheelers Meadow
Notwithstanding the backwardness of the season
all the town still under deep snow & ice--
here they are in the first open & smooth
water--governed by the altitude of the sun.
--I see many small furrows freshly
made in the sand at the bottom of
the brook--from 1/2 an inch to 3/4 wide--
which I suspect are made by some small
shell-fish--already moving. Perhaps Paludina
Mar. 19th\textsuperscript{252}
Pm. To Walden--
\begin{verbatim}
Measured the snow again
\end{verbatim}

\begin{verbatim}
W of RR | E of RR | av | Trillium Woods
15 | 11 4/5 | 13 2/5 | 16\textsuperscript{253} 3/4
\end{verbatim}

The last measurement was on the 7th

\textsuperscript{251} "selves" altered from "self"
\textsuperscript{252} T pastes down newspaper clipping discussing "Ice" after date line
\textsuperscript{253} "16" written over "15"
ult. when it av. about 16\textsuperscript{254} inches in
the open land-- This depth it must have
preserved owing to the remarkably cold weather
till the 13th at least. So\textsuperscript{255} it chances
that the snow was constantly 16 inches
at least
deep\textsuperscript{256} on a level in open land from Jan 13
to Mar. 13th

It is remarkable how rapidly it has
settled on the \emph{W.} of the RR as compared
with the \emph{W}, since the 7th ult (or I may say
rather the 13th) The whole av. settling, in open
land, since say the 13th is a little less than 3
inches.

The thickness of the ice on Walden in the
long cove on the \emph{S.} side about 5 rods
from shore--where the water is 19 1/2 feet
deep is just 26 inches. about 1 foot
being snow ice. In the middle it
was 24 1/4 on the 11th ult-- It is the
same there now--and undoubtedly--it
\%Prob. got to be thickest on this side\%
\%\% Since the
warmer weather which began on the
13th the snow which was 3 or 4 inches deep
is about half melted on the ice under
the influence of the sun alone--& the
within the last 5 days
ice is considerably softened--thus \textbf{suddenly}
quite through it, being easier to cut
& more--moist--quite fine\textsuperscript{256} & white like

\begin{quote}
The dust not at all hard dry & crystalline sticking together as damp
snow in the \#\#\# hole. snow when I shovel it out
on my axe.
\end{quote}

Ap. then Walden is as thickly frozen about shore as Flint's.
While I am measuring, though it is quite warm—the air is filled with large moist snow flakes—of the star form—which are rapidly concealing the very few bare spots on the R. R. embankment. It is indeed a new snow storm.

Another old red maple bleeds now on the warm S edge of Trillium Wood. The 1st maple was old & in a warm position. What befell at Mrs. Brooks' 1st maple was old & in a warm position. On the morning of the 17th ult—Mrs Brooks Irish girl Joan, fell down the cellar stairs by her mistress & was found ap. lifeless lying at the bottom—Mrs Brooks ran to the street door for aid to get her up—and asked a Miss Farmer who was passing near by to call the blacksmith—The latter lady turned instantly and making haste across the road on this errand fell flat in a puddle of melted snow—and came back to Mrs Brook's bruised & dripping & asking for opodeldoc. Mrs Brooks again ran to the door & called to Geo. Bigelow to complete the unfinished errand—He ran nimbly about

257 "concealing" altered from "concealed"
258 "bleeds" altered from "on"
259 "lying...bottom" marked by T. for transposition with "ap. lifeless"
260 "Farmer" altered from "farmer"
261 "The" altered from "the"
it & fell flat in another puddle
near the former--but his joints being
limber--got along without opodel-
doc & raised the blacksmith-- He
also notified James Burke who
was passing--& he rushing in to rend-
er aid--fell off one side of the
in the dark
cellar stairs-- ^ They no sooner got
the girl upstairs then she came to
& went raving-- Then had a fit.

Haste makes waste-- It never
rains but it pours-- I have this from
those who have heard Mrs Brooks' story--seen
the girl--& the stairs--& the puddles.
No sooner is some opening made
in the river--a square rod in area--where
some brook or rill empties in than the
ap. begin to
fishes ^ seek it for light & warmth--and
thus early perchance may become the
prey of the fish hawk-- They are seen
to ripple the water darting out as you
approach.

I noticed on the 18th ult. that springy
spot on the shore just above the RR bridge
by the ash--which for a month has been bare
for 2 or 3 feet now enlarged to 8 or 10 feet
in diameter-- And in a few other places on
the meadowy shore--(e.g just above mouth
of Nut meadow) I see great dimples

--- possess stray mark under “blacksmith”
--- "Then" altered from "then"
--- &" written over "t"
8 or 10 feet over
in the deep snow\^ betraying \textit{great} springs
There the pads (Nuphar) & cress already spring & shells are left by the rat
At\textsuperscript{265} the broad ditch on the corner road
opposite Bare Garden--the snowy crust
had slumped or fallen in here & there
& where the bridge was perfect I saw it
smooth
quite 2 feet thick-- In the \textit{open} water
there--small water-bugs were gyrating.
singly--not enough to play the game.

I am surprised at the sudden change
in the Walden\textsuperscript{266} ice within 5 days-- In cut-
ting a hole now--instead of hard dry trans-
parent chips of ice--you make a fine
white snow very damp & adhering together
with but few chips in it. The ice has been
affected throughout its 26 inches--
though most I should say above-- Hard to say
exactly where the ice begins under the 2 inches of snow.
Mar 20th 56

It snowed 3 or 4 inches of damp snow
last Pm & night--now thickly adhering\textsuperscript{267}
the twigs & branches-- Prob. it will
soon melt & help carry off the snow.

Pm. to Trill. Wood & to Nut mead.
to tap a maple--see paludina & get elder & sumach spouts
Brook. Slumping in the deep snow--
It is now so softened that I slump at every
3d step. The sap of red maples in \textit{low} &
\textit{warm} position now generally flows--but
not in high & exposed ones.

Where I saw those furrows in the
sand in Nut meadow Brook the other
day--I now explore--& find within
2 sq. foot or 2 a square foot or 2--half a dozen

of *Paludina decisa* with their feet out

within an inch of the surface--so I have

scarcely a doubt that they made them.

I suppose that they do not furrow the bottom

thus under the ice--but as soon as the

spring sun has thawed it, they come to the

surface, *perhaps* at night only,--where

there is some little sand & furrow it

%may be it is the love season%

thus by their motions%&% *Perhaps* then

make part of the food of the crows

which visit this brook--& whose tracks

I now see on the edge--& have all winter.

Prob. they also pick up some dead frogs.

Feather read in a paper to-day of

of 740 & odd apple tree buds recently taken

out of the crop of a partridge.

Last nights snow--which is melting very

fast is evidently helping to rot the

ice very fast--in the absence of rain

by settling into it--as did the older snow

May be it will thaw the ground in the same way & thick

indeed.^ Considering how solid^ the river

was a week ago I am surprised to

find how cautious I have grown about

crossing it in many places now.

For two or three days I have heard

the gobbling of turkies the first spring

%chicadees &% sound--after the%&% hens--that I think of

The river has just begun to open at

has been

Hub's Bend-- It^ closed there since Jan.

7th--i.e. 10 weeks & a half
Set a pail--before coming here--to catch
red-maple sap at Trill. Wood-- I am now
looking after elder & sumach for spouts.
I find the latter best--for though the
former has as large a pith--(larger in prop.
commonly
to its size) its wood* being less it does not
Yet there is some by A. Barrett's ditch 2+ inches in diameter--but it's very
fill so large a hole--nor is it so strong.*
strong--but its pith small. smooth
The pith &c of the* smells to me like weak
tobacco. What other shrubs have a large
Only those plants which have a great growth
pith? the first year can have much pith--since ap. this does not
increase afterward. V. Ap 22nd for st sumach
Got my smooth sumach on the S side
of Nawshawtuct-- I know of no shrubs here
abouts*--except elders* & the sumachs which
have a suitable pith & wood for such a
smooth
purpose-- The pith of the* sumach is a
light brown like yellow snuff--the ring
of old wood next to it is a decayed looking
greenish yellow--the sap wood is white.
When cut or broken it has a singularly
there being often but a small proportion of sap wood
particolored & decayed look--^ A white
sticky juice oozes out of the edge of the
bark where cut--& soon turns yellow
& (ed) hard. in drops like pitch or hickory sap.
only harder. This pith does not come
quite
out* so entire & smoothly as elder--
being drier now, at least
you can shove it past the axils of	
The old wood of the ivy is also yellow like this--but there
twigs. is more & harder sap wood--4 the pith is quite small.
The pith of the poison sumach or dogwood is considerably smaller.--but I think it has X
the same scent with the smooth--
Mar* 21st
Geo Brooks of the North Quarter--
tells me that he went a fishing
at Nagog Pond on the 18th ult.*

268 “abouts” altered from “about”
269 “elders” altered from “alders”
270 “Mar” written over text, poss “Nov”
271 Alteration: written vertically in left margin: “Another poison dog wood has a very large pith, & I am not sure about the / scent. The juice of the bark is not white.”
and found the ice from 30 to 37 inches thick—(the greater part or all but about a foot snow ice)—the snow having blown on to the ice there. He measured it with a rule & a hooked stick—(But at Walden where I measured there was no drift—It may have been no thicker at Nagog on an average% ing of the snow272.--%)% He says that both the grey squirrel & the red eat pine-seed former but not in company. The71^ have been quite common about his house the past winter—& his neighbor caught two in his yard.

10 Am to my red maple sugar camp— Found that after a pint & a half had run from a single tube after 3 Pm yesterday—it had frozen about 1/2 inch thick—& this morning 1/4 of a pint more had run— Between 10 1/2 & 11 1/2 Am this forenoon—I caught 2 3/4 pints more from 6 tubes at the same tree—though it is completely overcast & threatening rain—

4 1/2 pints in all. This sap is an agreeable drink like (by chance) but slight ice&% water with a pleasant^ sweetish taste. I boiled it down in the P.m. & it made 1 1/2 ounces of sugar without any molasses— which appears to be the average amount yielded by the sugar maple in similar situations—viz south edge of a wood— a tree partly decayed 2 feet diameter.

271“drift...snow.” underlined in pencil
273 “The” altered from “They”
It is worth the while to know that there is all this sugar in our woods much of which might be obtained by boiling using the refuse wood lying about--without damage to the proposition\textsuperscript{274} who use neither the sugar nor the wood.

I left home at 10 & got back before 12 with 2 3/4 pints of sap in addition to the 1 3/4 I found collected.

I put in saleratus & a little milk while boiling--the former to neutralize the acid--& the latter to collect the impurities in a skum. After boiling it till I burned it a little & my small quantity would not flow when cool but was as hard as half done candy--I put it on again & in a minute it was softened & turned to sugar.

While collecting sap the little of yesterdays lodging snow that was left dropping from the high\textsuperscript{275} pines in Trill. Wood--& striking the brittle twigs in its descent--makes me think that the squirrels are running there.

I noticed that my fingers were purpled evidently from the sap on my auger.

Had a dispute with father about the use of my \textsuperscript{276}making this sugar when I knew it could be done--& might have bought sugar\textsuperscript{277} cheaper at Holden's. He said it %I made it my study% took me from my studies. I said% I felt as if I had been to a university.

It dropped\textsuperscript{278} from each tube about as fast as my pulse beat--& as there were 3 tubes directed to each vessel--it flowed

\textsuperscript{274} "proposition" poss. altered from "proprietor"
\textsuperscript{275} "high" inserted
\textsuperscript{276} false start preceding "making"
\textsuperscript{277} "sugar" altered from "it"
\textsuperscript{278} "dropped" written over text
at the rate of about 180 drops in a minute into it.

One maple standing immediately north of a
thick white-pine scarcely flowed at all--while a
smaller farther in the wood--ran pretty well.

The S side of a tree bleeds first in the spring--
I hung my pails on the tubes or a nail--had
2 tin pails & a pitcher. Had a 3/4 inch auger.
Made a dozen spouts 5 or 6 inches long--
hole as large as a pencil--smoothed with a
pencil.

Sat. Mar. 22nd 56

Pm. to White Maples & up Assabet.

The ice of the river is very rapidly softening
--still concealed by snow--the upper part
becoming homogeneous with the melting
snow above it. I sometimes slump into snow
& ice 6 or 8 inches to the harder ice beneath.

I walk up the middle of the Assabet //
& most of the way on mid. of S branch--
in snow
Many tracks of crows along the
edge of the open water against Merricks
at Island-- They thus visit the edge of
water--(this & brooks--) before any ground
is exposed. Is it for small shell fish?
The snow now no longer bears you
It has become very coarse grained under the
sun--& I hear it sink around me as I
walk.

Part of the white maples now begin
some perhaps 2 or 3 days

...--prob. in equally warm positions

they would have begun to flow as early as

those red ones which I have tapped.

ap.

// Their buds--and some of the red ones--are

This prob. follows directly on the flowing of the sap

visibly swolen. In 3 instances I cut

off a twig & sap flowed & dripped from

the part attached to the tree, but in

no case would any sap flow from

the part cut off--(I mean where I first

had cut it) which appears to show

Yet the next day at Walden it flowed from

that the sap is now running up. I

both parts--though considerably more from the end attached to the tree.

also cut a notch in a branch 2 inches

It will also drip from the upper carf of a woodchopper--

in diameter, & the upper side of the cut

remained dry--while sap flowed from the

lower side--but in another instance both

sides were wet at once & equally.

// The sap then is now generally flowing

upward in red & white maples in warm

See it flowing from maple twigs which were gnawed

positions--off by rabbits in the winter--

The down of willow catkins in very warm

// places has in almost every case peeped out

1/8 of an inch--generally over the whole willow

On water standing above the ice under

// a white maple are many of these Perla (?)

insects with 4 wings drowned--though

it is all ice & snow around the country

over. Do not see any flying--nor before this.

The wood choppers--who are cutting

the wood at Assabet spring--now at last

go to their work up the middle of the

but one got in yesterday one leg the whole length.

river. At the red maple which

It is rotted through in many places behind Pritchard's.

280 "willow" altered from "willows"
I first tapped I see the sap still running
& wetting the whole side of the tree. It
has also oozed out from the twigs--especially
those that are a little drooping & run
down a foot or two bathing them some
times all around--both twigs & buds some-
times--or collected in little drops on the
under sides of the twigs--& all evapora-
ted to molasses--which is for the most
or ink
part as black as blacking^ having
probably caught the dust &c even over
all this snow-- Yet it is as sweet & thick
as molasses--& the twigs & buds look
as if blacked & polished. Black drops of
thick
this congealed sweet syrup spot the under
sides of the twigs-- No doubt the bees &
other insects frequent the maples now--
I thought I heard the hum of a bee
but perhaps it was a R. R. whistle. //
^It is as thick as molasses-- It is especially
apt to catch about the bases of the
twigs where the stream stops-- Where the
sap is flowing--the red maple being cut
inner
the^ bark turns crimson. I see many
snow fleas on the moist maple chips.
Saw a pigeon woodpecker under
//
the swamp wht oak in Merricks Pasture--
where ther is a small patch of bare ground.
Prob. Minot saw one in his door yard in

^281 "about" altered from "at"
mid winter.

Mar. 23d ’56

I spend a considerable portion of my time observing the habits of the wild ani-

mals my brute neighbors-- By their various movements & migrations they fetch the year about to me-- Very sig-

nificant are the flight of geese & the migration of suckers &c &c-- But when I consider that the nobler animals have been exterminated here--the cougar--panther--lynx--wolverine wolf--bear the beaver, the turkey moose--deer^ &c &c--I cannot but feel as if I lived in a tamed &\textsuperscript{282}, as it were, emasculated country-- Would not the motions of those larger & wilder animals have been more significant still-- Is it not a maimed & imperfect nature that I am conversant with?\textsuperscript{283} As if I were to study a tribe of Indians that had lost all its warriors. Do not the forest & the meadow now lack ex-

pression--\textsuperscript{284} now that I never see nor think of the moose with a lesser forest on his head--in the one--nor of the beaver in the other? When I think what were the various sounds & notes--the migrations & works & changes of fur & plumage which ushered in the spring & marked the other seasons of the year--I am reminded that this my life in Nature--this particular round of natural phe-

---
nomena which I call a year--is lamentably incomplete--I listen to concert--in which so many parts are wanting. The whole civilized country is to some extent turned into a city. Many & I am that citizen, whom I pity. "of those animal migrations & other phenome-
a by which the Indians marked the season--are no longer to be observed.

I seek acquaintance with nature--to know her moods & manners--Primitive Nature285 is the most interesting to me. I take infinite pains to know all the phenomena of the spring, for instance--thinking that I have here the entire poem--& then to my chagrin I learn that it is but an imperfect copy that I possess & have read--that my ancestors have torn out many of the first leaves & grandest passa-
ges--& mutilated it in many places.

I should not like to think that some demigod had come before me & picked out some of the best of the stars. I wish to know an entire heaven & an entire earth.

All the great trees--& beasts--fishes & fowl are gone--the streams perchance are somewhat shrunk. I see that a shop keeper adver-
tises among his perfumes for handkerchiefs "meadow flowers"--& "New mown hay".

Pm to Walden

The sug. maple sap flows--& for aught I know is as early as the red.

285 "Nature" altered from "nature"
I think I may say that the snow has been not less than a foot deep on a level in open land—until today—since about 11 weeks Jan 6th. It prob— begins to be less about this date. The bare ground begins to appear where the snow is worn in the street— It has been steadily melting since Mar. 13th the therm. rising daily to 40 & 45 at noon—but no rain.

The E. side of the Deep Cut is nearly bare— as is the RR itself—and on the driest parts of the sandy slope I go looking for Cicindela—to see it run or fly amid the sere blackberry vines—some life which the warmth of the dry sand under the spring sun has called forth— But I see none. I am reassured & reminded that I am the heir of eternal inheritances— which are inalienable—when I feel the warmth reflected from this sunny bank— & see the yellow sand & the reddish sub-soil— & the trickling of melting snow in some sluiceway & hear some dried leaves rustle/>. The eternity which I detect in Nature I predicate of my— self also. How many springs I have had this same experience! I am encouraged for I recognize this steady persistency & re-covery of nature as a quality of myself.

The first places which I observe to be bare now—though the snow is generally so deep still—are the steep hill sides facing the South—as the side of the cut (though it looks not south exactly—) & the slope of Heywoods Peak toward the pond.

“Nature” altered from “nature”
there is less snow there--on ac. of eddy--& ap. the tree absorbs heat
also under some trees in a meadow"--or a
ridge in the same place-- Almost the whole
of the steep hill side on the E N of Walden
is now bare & dry & warm--though fenced
in with ice & snow-- It has attracted partridges
4 of which whirr away on my approach--
There the early sedge is exposed--(& looking
closer I observe that it has been sheared off
close down when green far & wide--& the fallen
by their sides
withered top are little handfuls of hay" which
have been covered by the snow--& sometimes look as
if they had sere d as nests for the mice--for
Yet not such plain nests as in the grain field last spring
Prob. the Mus. leucopus.
their green droppings are left in them abundantly."^ and the winter-green
^and the sere penny royal still retains some

As I was returning on the RR--at the crossing
hearing a rustling I
beyond the shanty--"saw a striped squirrel //
E
amid the sedge on the bare" bank--20 feet
distant-- After observing me a few moments
between the rails
as I stood perfectly still--"he ran straight up
to within 3 feet of me out of curiosity--then after
a moments pause ^ looked up to my face--turned
back--& finalled crossed the RR-- All the
red was on his rump & hind quarters.
When running he carried his tail erect--as
he scratched up the snowy bank.

Now then the steep south hill sides
begin to be bare--exposing & the early sedge
& sere but still fragrant penny royal

287 "off" poss. altered from "of"
288 "&" inserted
289 false start following "on"
& rustling leaves, are exposed--& you
sheared off
see where the mice have* sheared
the partridges resort--& perhaps you
hear the bark of a striped squirrel & see
him scratch toward his hole rustling
the leaves-- (For) all the inhabitants of nature
are attracted by this bare & dry spot as well as
you.

The musk rat
houses were certainly very few & small last
summer--and the river has been remarka-
ably low up to this time-- While the previous
fall there very numerous & large--& in the
succeding winter the river rose remarkably
high. So much for muskrat sign.

// The bare ground just beginning to appear in a few spots in the road in mid.
Monday Mar. 24th 56--
of the town.
//
Very pleasant day--Therm. 48°+ at noon
start to
9 Am-- Get 2 quarts of White Maple
& home at 11 1/2
// sap--one F. Hiemalis in yard. Spend the fore-
noon on the river at the White Maples--
warble
///I hear a blue-birds & a song sparrow's
Blue birds seen in all parts of the town to day for 1st time as I hear--
chirp-- So much partly for being out
The F Hiemalis has been seen 2 or 3 days.
the whole forenoon----Cross the river
behind Monroe's-- Go every where on
it is all solid
the N. branch-- almost every where on
the S. branch-- The crust bears in the
morning-- The snow is so coarse grained
& hard that you can hardly get up
a handful to wash your hands with
except the dirty surface. The early
// aspen-bud down very conspicuous 1/2
inch long--yet I detect no flow of sap.

The White maple sap--does not flow

---

290 "houses" altered from "There"
291 "one" poss. inserted
292 "aspen-bud" altered from "aspen-buds"
Yet last year I paddled my boat to F. H. Pond on the 19th of March—!
Before noon I slumped 2 feet in the snow—
You bore a little\textsuperscript{293} hole\textsuperscript{294} with your knife & presently the wounded sap wood begins to glisten with moisture—& anon a clear crystalline tear-like drop flows out & runs down %or drops at once to the snow—%
the bark—% This is the sap of which the far That's the sweet liquor which the Ind. boiled a thousand years ago. famed maple-sugar is made—
Cut a piece of Rhus Toxicodendron resting on a\textsuperscript{295} rock—at Egg Rock—\frac{5}{8} of an inch in diam-eter—which had 19 rings of annual growth.
It is quite hard & stiff.
My sugar making was spoiled by putting in much soda instead of saleratus—by accident.\textsuperscript{296}
I suspect it would have made more sugar black than the red—did. It proved only brittle^ candy
This sap flowed just about as fast as that of the red maple—
It is said that a great deal of sap will run from the yellow-birch.
\textsuperscript{297}The River begins to open generally at the bends—-for 10 or 20 rods & I see the dark ice alternating with dark water there while the rest of the river is still covered with snow—

Mar 25th
P. m. to Walden. The willow & aspen catkins have pushed out considerably

\textsuperscript{293} “little” altered from “to the”
\textsuperscript{294} “hole” altered from “whole”
\textsuperscript{295} “a” altered from “at”
\textsuperscript{296} “by accident.” added
\textsuperscript{297} false start before “The”
since the 1st of Feb in warm places--
I have frequently seen the sap of maples flow
in warm days in the winter--in warm lo-
calities-- This was in twigs-- Would it in the
trunks of large trees?--& if not, is not this
an evidence that this sap did not come
up from the roots?

The meadow E. of the RR causeway is
bare in many spots--while that on
the W. is completely & deeply covered--
Yet a few weeks ago it was deepest
on the east-- I think of no reason for
this--except that the causeway may
keep off the cold N. W. winds from the
former meadow--for 30 rods distant there
are no bare spots. Why is the eastern
slope--now, as every spring (almost completely)
bare--long before the western? The road
runs N & S & the sun lies one the one side
as long as on the other. Is it more favor-
able that the frozen snow be acted on by
the warmed air before the sun reaches
it--than after it has left it? Another
reason is prob. that there is less snow
on that side--or on the W slope of
a hill than on the Eastern-- Snow drifting
from the N. W. lodges under the
West bank. So I observe today--that
(4 this seems to give weight to the 2d reason urged above)
the hills rising from the N & west^ sides
of Walden are partially bare--While those
on the south and east are deeply & com-
pletely covered with snow. his house
Mr. Bull tells me that his grapes grow faster & riper
sooner on the W than the E side of^
There have been few if any small migratory birds the past winter. I have not seen a tree-sparrow--nuthatch--creeper--nor more than one red-poll since Christmass--They probably went further south.

I now slump from 2 to 4 inches into Walden--though there has been no rain since I can remember--I cannot cut through on ac--of the water in the softened ice flowing into the hole. At last in a drier place I was not troubled with water--till I had cut about a foot on through the snow ice--when 2 or 3 streams of water 1/2 inch or more in diameter spurted up through partly honey-comed holes in the disorganized clear ice--So Prob. the clear ice is thus riddled all over the pond--for this was a drier place than usual. I failed to get through--^ The whole mass is it the effect of the melted snow & surface working down?--or partly of water in the middle is about 24 inches thick pressing up? but I scrape away about 2 inches of the surface with my foot--leaving 22 inches.

For about a rod from the shore--on the N & W sides--(I did not examine the others) it is comparatively firm & dry--then for 2 rods you slump 4 inches or more--then belt & generally only about 2--Is that the effect of reflection from the hills.%?%

Hear the hurried & seemingly frightened notes of a robin--& see it flying over & afterwards its tut tut at a distance the RR lengthwise--This is the birds of yesterday have come though the
ground generally is covered deep with snow-- They will not only stay with us through a storm, but come when there are but resting places for them. It must be hard for them to get their living now.

The tallest andromedas now rise 6 or 8 inches above the snow in the swamp.

Mar. 26th '56
to Cambridge--

I hear that Humphrey Buttrick found a whole (He tells me that his dog found a covey of quails dead under the snow-- At Philadelphia a month or 2 since they offered a reward for live ones--to preserve them. We have heard of an unusual quantity of ice in the course of the Liverpool packets this winter-- Perhaps the Pacific has been (sunk) by one, as we hear that some other vessels have been-- Yet the papers say it has been warmer about Lake Superior than in Kansas--& that the Lake will break up earlier than usual.

They are just beginning to use wheels in Concord-- but only in the middle of the town--where the snow is at length worn & melted down to bare ground in the middle of the road from 2 to 10 feet wide-- Sleighs are far the most common even here

In Cambridge there is no sleighing

304 "Buttrick" altered from "buttrick"
305 We: altered from "Who"; "e" written over "ho"
306 "in" altered from "but o"
for the most part the middle of bare & even
the road from Porters to the College is dusty
for 20 to 30 feet in width--the College Yard is
one half bare-- So if they have had more
snow than we, as some say, it has melted much
faster-- There is also less in the towns between
us & Cam. than in Concord. The snow lies
longer on the low level plain surrounded
by hills--in which Concord is situated. I am
struck by the more wintry aspect--almost
totally uninterrupted snow fields--on coming
into Concord in the cars.

The Romans introduced husbandry into
England, where but little was practiced before--
& the English have introduced it into America--
so we may well read the Roman Authors
for a history of this art as practiced by us.

I am sometimes affected by the
consideration that a may spend
the whole of his life after boyhood in
accomplishing a particular design--as
if he were put to a petty & special use
--without taking time to look around
him & appreciate the phenomenon
of his existence-- If so many purposes
are thus necessarily left unaccomplished
--perhaps unthought of--we are
reminded of the transient interest we
have in this life-- Our interest in our

307 “than” altered from “than,“; “,” cancelled
308 “Roman” altered from “Romans”
309 petty & special marked with line for transposition to read “special & petty”
in the spread of liberty &c
country"strong & as it were innate as it
is--cannot be as transient as our
present existence here. It cannot be that
all those patriots who die in the
midst of their career have no further
connexion with the career of their country.

Mar. 27th '56
Uncle Charles died this morning about midnight--aged 76
The frost is now entirely out in some

// parts of the New Burying Ground--the
sexton tells me--half way up the hill
which slopes to the S. unless it is bare of
snow--he says--

In our garden where it chances to be
bare--2 or more rods from the house I was

// able to dig through the slight frost-- In
another place near by I could not.

The river is now open in reaches
ice
of 20 or 30 rods--where the has dis-
appeared by melting.
about 70
Elijah Wood Sen. tells me he does

not remember that the river was ever
frozen so long--nor that so much
snow laid on the ground so long.

People do not remember when there

// was so much old snow on the ground at
this date.

Mar 28th
Uncle Charles buried. He was born in Feb. 1780--the winter
Cold & the earth stiff again after
of the great Snow--& he dies in the winter of another great Snow--
a life bounded by great snows.
15 days of steady warm & for the most
part sunny days (without rain) in which

310 "In" altered from "in"
311 "the" altered from "it"
the snow & ice have rapidly melted.

Sam. Barrett tells me that a boy caught a crow in his neighborhood the other day in a trap set for mink. Its leg was broken. He brought it home under its arm & laid it down in a shop thinking to keep it there alive. It looked up sidewise as it lay seemingly helpless on the floor—but the door being open—all at once to their surprise it lifted itself on its wings & flitted out & away without the least trouble.

Many crows have been caught in mink traps the past winter, they have been compelled to visit the water sides so much for food—Barrett has suffered all winter for want of water. I think to say to my friend—There is but one interval between us. You are on one side of it——I on the other——You know as much about it as I—how wide—how impassable it is. I will endeavor not to blame you—Do not blame me—There is nothing to be said about it. Recognize the truth—&%cross the intervals that are bridged.

Fare well my friends—My path inclines to this side the mts—your’s to that For a long time you have appeared further & further off to me.

I see that you will at length disappear altogether—For a season my path

---

312 “sidewise” altered from “sidewize”
seems lonely without you-- The meadows
are like barren ground-- The memory of
me is steadily passing away from you
My path grows narrower & steeper &
the night is approaching-- Yet I have
in the infinite future
faith that new suns will rise & new plains
expand before me--and I trust that I shall
therein encounter pilgrims who bear that
sane virtue that I recognized in you.
will be very
who that virtue that was you
I accept the everlasting & salutary law.
which was promulgated as much that
spring that I first knew you, as this that
I seem to lose you.
former
My friends, I visit you--as one walks
amid the columns of a ruined temple
You belong to an era--a civilization & glory long past.
I recognize still your fair proportions--
\%which we\%
notwithstanding the convulsions\%

have felt & the weeds & jackals
that have sprung up around.
I come here to be reminded of the past--
--to read your inscriptions-- the hiero-
glyphics the sacred writings
We are no longer the repre-
sentatives of our former selves.
Love is a thirst that is never slaked.
Under the coarsest rind the sweetest meat.
If you would read a friend aright--you
must be able to read through something
thicker & opaquer than horn.
If you can read a friend--all languages
Enemies publish themselves--They de-
will be easy to you. clare war-- The friend here declares his love\%
Mar. 29th 56

Another cold day-- Scarcey melts at all. Water skimmed over in chamber-- with fire

March 30th 56

Pm to Walden & Fair Haven.

Still cold & blustering. I came out to see

the sand & rich soil in the \[\frac{3}{16}\] deep cut, as I would to see a spring flower--some redness in the cheek of earth. These cold days have made the ice of Walden dry and pretty hard again at top. It is just 24 inches thick in about 11 inch of snow ice the middle-- "It has lost but a trifle on the surface. The inside is quite moist-- The clear ice very crystalline & leaky--letting the water up from below so as to hinder my cutting. It seems to be more porous & brittle than the snow ice.

I go to Fair Haven via the Andromeda Swamps--

The snow is a foot & more in depth there-- still. There is a little bare ground in & swamy next to the woods at the head of Well Meadow--where the springs & little black rills are flowing. I see already one blade 3 or 4 inches long of that purple or lake grass lying flat on some water--between the first leaf with a rich bloom on it snow-Clad banks-- "How silent are the footsteps of Spring! There too, where the is a fraction of the meadow 2 rods over--quite bare under the bank-- in this warm recess at the head of the
and a meadow--though the rest of the
foot or more in depth--I am surprised
to see the skunk-cabbage with its great
spear heads open--ɪ ready to blossom (i.e. shed--
pollen in a day or 2--) and a caltha palustris
bud which shows yellowish--ɪ the golden sax--
also there are many fresh tender leaves of ap the gold-thread* in open meadow there
prob. not
ifrage--green & abundant--"all surrounded
& hemmed in by snow which covered the
ground since Christmas--& stretches as
far as you can see on every side.
and there are as intense blue shadows on the snow as I ever saw.
The spring advances in spite of snow & ice
& cold even-- The ground under the snow
has long since felt the influence of the
spring sun--whose rays fall at a more
favorable angle. The tufts or tussocks
next the edge of the snow were crowned
with dense phalanxes of stiff spears
of the stiff triangularish sedge grass
of any plant
// 5 inches high but quite yellow
This is the greatest growth* I have seen--I had not suspected any
with a very slight greenness at the
I can just see a little greening on the bare & dry south bank.
tip--showing that they pushed up
through the snow which melting
they had not yet acquired color.
& clefts
In warm recesses* in meadows & rocks in
the midst of ice & snow--nay even
under the snow vegetation commences
& steadily advances.
// I find Fair Haven Pond & the river
lifted up a foot or more--the result

*518 "and a" altered from "and the"
*519 "C" written over false start
the long steady thaw in the sun-- The water
of the pond and river has run over the meadows
partly
covering mixing with &^ covering the snow-- on
somewhat
thir making it^ difficult to get onto the
river on the E side-- On the E. side of the
pond the ice next the shore is still frozen
to the bottom under water by one edge while
the other slants upward to meet the" ice
of the Pond-- This sort of canal on one
or both sides of the river is from 0 or a rod
to 3 or 4 rods wide-- This is the most deci-
ed step toward a breaking up as yet--
But the pond & the river are very solid yet
I walk over the pond & down on the mid-
de of the river to the bridge--without seeing
an opening.
Saw prob. a henhawk?-- (saw the black {tips} to
may have been a marsh hawk or harrier% wings--) sailing low over the low cliff
next the river--looking probably for birds.
The south hill sides no sooner begin
to be bare--& the striped squirrels--&
birds resort there--than the hawks come
from Southward to prey on them. I
think that even the henhawk is
here in winter, only as the robin is.
For 25 rods the corner road is im-
passable to horses &c because of their slump-
ing in the old snow--& a new path
has been dug--which a fence shuts off the old.
Thus they have served the roads on all sides the town--
Mar. 31st '56

Pm to Peters via Winter (Strt)

I see the scarlet tops of white maples

generally a mile off down the river--the

lusty shoots of last year-- Those of the red

maple do not show thus.

I see many little holes in this old

& solid snow where leaves have sunk

down gradually--4 perpendicularly

11 or 12 inches-- The hole no larger at

the top than at the bottom--nay often partly

closed at top by the drifting--and exactly

the form & size of the leaf-- It is as

if the sun had driven this thin shield

like a bullet thus deep into the solid

It is remarkable how deep the leaves settle into an old snow like this.

V np. b. 2

// snow-- See a small 320 ant running

about over a piece of meadow turf.

The celandine begins to be conspicuous springing under Brown's

fence

April 1st 56

P.m. Down RR--measuring snow & to F. H.

Hill--

25 // W. of RR E of RR av.
26  2  5  12 0
27  0  5  17 0
28  3  3  11 0
29  5  3  11 0
30  4  9  15 0
31  4  7  15 10
32  4  1  11 8
33  5  10  40 0
34  3  1  24 1/2
35  5  12  0 6
36  5  13  0 9
37  7  14  0 14
38  8  13  0 11
39  14  15 0 10
40  9  16  0 10
41  7  13  0 11
42  3  0  8
43  10  0  8
44  3  0  6
45  9  0  3
46  6  0  0
47  0 20 200 (10 inch
48  1
49  20
50  5
51  24 57 (2 1/3

320 “a small” altered from “also an”
It appears from the above how rapidly the 

snow has melted on the E side of the 

RR-causeway—though 8 to 12 rods from 

it—being sheltered by it from the N. W. 

v ap.11 

wind. It is for the most part bare ground there 

Adhering to these localities the average 

deep in open land is 5 1/2 inches—but the 

E side of RR-- is a peculiarly sheltered place 

and hence bare—while the earth generally 

is covered— It is prob. about 7 inches 

deep on a level generally in open land. 

It has melted at about the same 

rate W. of RR--& in Trill. Woods since 

the 19th. It is a question whether it 

is better sleighing or wheeling now 

taking all our roads together. At 

any rate we may say the sleighing lasted 

till april. In some places it still 

fills the roads level with the walls-- 
& bears me up still in the middle 

of the day. It grows more & more solid 

--ap. freezing at night quite through 

Wm Wheeler (of the Corner Road) tells 

me that it was more solid this 

morning than any time in the winter-- 
& he was surprised to find that it 

would bear his oxen where 3 or 4 feet 

deep behind his house— On some 

roads you walk in a path
recently shovelled out with upright walls of snow 3 or 4 feet high on each side & a foot of snow beneath for 20 or 30 rods you"--& this is old snow. We have had none since Mar. 20--& that was very moist & soon melted. The drifts on the E side of the Depot--which have lain there a great part of the winter--still reach up to the top of the first pane of glass.

But generally speaking we slump so much --especially in the woods--except in the morning--& the snow is so deep that we are confined to the roads or the river still. Choppers can not & teams cannot get in for work in the woods yet-- wood yet

A new snow of this depth would soon go off; but this old snow is solid and It seems to be gradually turning to ice icy & wastes very slowly. I observe that while the snow has melted unevenly in waves & ridges--there is a transparent icy glaze about 1/16 of an inch thick but as full of holes as a riddle--spread level like gauze over all--resting on the prominent parts of the snow--leaving hollows beneath from 1 inch to 6 or more inches in depth-- I often see the spiders running under neath this. This is the surface which has melted & formed an icy crust--& being transparent-- it has transmitted the heat to the snow beneath--& has out-

"&" written over "--"
lasted that-- This crashes & rattles under your feet.

The bare places now--are the steep south & W. or S. W. sides of hills--& cliffs--& also next to woods & houses on the same sides-- / The ridges & bowns of hills--& slighter ridges & prominences in the fields-- / Low open ground protected from the N. W. wind-- / Under trees &c.

I might have put the roads--2nd.

Going by the path to the Springs--I find great beds of leaves--sometimes a foot thick--

very dry & crisp--& filling the path on one side of it in the woods--for 1/4 of a

inviting one to lie down like the single ones seen yesterday

^in mass a foot or more--making a path to that depth-- Yet when they are

unusually thick they preserve the snow beneath--& are found to cover an almost icy mound.

Apr. 2nd 56

8 Am. to Lee's Cliff--via. RR. Andromeda Ponds--& Well Meadow--

I go early while the crust is hard. I hear a few song sparrows tinkle on the alders they skulk & flit along below the level of the ground in the ice filled ditches by the RR--& blue birds warble over the A foot or more of snow in Andromeda

Deep-Cut. ponds.

In the warm recess at the head of Well-meadow--which makes up on the N. E side of F. Haven--I find many evidences of

322 "Low" altered from "low"
Pushed up through the dead leaves--yet flattened by the snow & ice which was just melted
here behold
// spring.^{&} The skunk cabbage has been
in bloom--i.e. has shed pollen some time
here
all that now sheds pollen has been frost bitten
and been frost bitten & decayed.^-- Others
are ready to shed it in a day or 2-- I find no
other flower nearly so forward as this--
The Cowslip appears to be coming next to
it-- Its buds are quite yellowish & half
an inch, almost, in diameter-- The alder
scales do not even appear relaxed yet--
This year at least--the cabbage is the
%It may possibly be a little% first flower-- & perhaps it is always earlier
than I have thought; if you seek it in
%V. the 4th inst.% a favorable place. The springy soil
in which it grows melts the snows
early--& if beside it is under the
south side of a hill in an open
in a recess oozy alder swamp--sheltered from
cold winds like--this-- It may commonly
%doubtful.% the first flower%-- It will take
you half a life time to find out where
to look for the earliest flower--
I have hitherto found my earliest at
%V. 4th prox.% Clam shell--a much more exposed place%--
Look for some narrow meadowy bay
running north into a hill--& protected
by the hill on the north &
partly on the E & W-- At the head
of this meadow, where many springs
ooze out from under the hill
& saturate all the ground--

323 "been" altered from "is"
324 "&...always" cancelled in pencil
325 "be" altered from "by"
326 "many" altered from "my"
dissolving the snow early in the spring--
or on the edge
in the midst of a narrow open alder swamp--
there look for the earliest skunk-
cabbage--& cowslip--Where some little
black rills are seen to meander or heard
to tinkle in the middle of the coldest
winter-- There appear the great spear-
heads of the skunk cabbage--yellow--
& red--or uniform mahogany color--
ample hoods sheltering their purple
spadixes. The plaited buds of the hellebore
are 4 or 5 inches high-- There are buds //
of fresh green moss in the midst of
the shallow water-- What is that
coarse sedge like-grass--rather broadly
triangularish--2 inches high in the water--
This and the cress have been eaten
prob. by the rabbits whose droppings
are abundant-- I see where they have
gnawed & chipped off the willow osiers.
Common grass is quite green.

Here where I come for the earliest flowers
I might also come for the earliest birds--
They seek the same warmth & vegetation.
& so prob. with quadrupeds--rabbits
skunks--mice &c. I hear now as I stand
over the first skun cabbage--the notes
first
of the red-wings--like the squeaking //
of grackles? a sign--%over amid the maples yonder--

527 "a narrow" altered from "an"
528 word underlined in pencil
Robins are peeping & flitting about
Am surprised to hear one sing regularly
their morning strain--7 or 8 rods off--
& smothered
yet so low" with its ventriloquism that
you would say it was half a mile
off-- It seems to be wooing its mate
that sits within a foot of it.

There are many holes in the surface
of the bare springy ground amid
the rills--made by the skunks or
mice--& now their edges are bristling
feather like
with" frost-work--as if they were
the breathing-holes or nostrils of the
earth.

That grass which had grown 5
inches on the 30th is ap. the cut grass
of the meadows. The withered blades
which are drooping about the tufts
are 2 feet long. I break the solid
snow bank with my feet--& raise its
edge--& find the stiff but tender
yellow blades or shoots beneath it.
They seem not to have pierced it but
are prostrate beneath it. They have
actually grown beneath it--but
not directly up into it to any extent
rather flattened out beneath it--

Cross F. H. P. to Lee's Cliff-- The
Crowfoot & saxifrage seem remarkably
backward--no growth as yet--
But the Catnep has grown even

"to" altered from "--"
possibly cancelled in pencil
The columbine with its purple leaves
has grown 5 inches—& one is flower bud-
ded—ap. nearer to flower than any thing
there—Turritis stricta very forward 4 inches
high—

It is evident that it depends on the
character of the season whether this
flower or that is the most forward—
—Whether there is more or less snow—or cold
or rain &c. I am tempted to stretch
myself on the bare ground above the
cliff—to feel its warmth in my back—
& smell the earth & the dry leaves.
— I see and hear flies & bees about—
A large buff-edged butter-fly—flutters by
along the edge of the cliff—V. antiopa
Though so little of the earth is bared—
this frail creature has been warmed to
life again. Here is the broken shell
of one of those large white snails—
Helix albolabris on the top of the Cliff—
It is like a horn with ample mouth
wound on itself. I am rejoiced to find
anything so pretty— I cannot but think
it nobler, as it is rarer—to appreciate
some beauty than to feel much sym-
pathy with misfortune. The Powers are
kinder to me when they permit me to en-

[^331]: T possibly draws a v. pencil line through “inches” here and on line 5
[^332]: “than” altered from “in”
[^333]: “Powers” altered from “powers”
joy this beauty--than if they were to express
any amount of compassion for me-- I
could never excuse them that.

A wood-chuck has been out under
the cliff & patted the sand--cleared out
the entrance to his burrow.

Musk rat houses have been very scarce
indeed the past winter-- If they (wered) not
killed off--I cannot but think that
their instinct fore saw that the river
// would not rise. level through the winter up to April!!

I returned down the middle of the
river to near the Hub. bridge without seeing
// any opening

Some of the earliest plants are now
not started because covered with snow--as
the stellaria & shepherd's purse--

Others like the Carex-Penn.--the crowfoot--
saxifrage--Callitriche--are either covered
I think it must be partly owing to the want of rain & not wholly to
the snow that
the first 3 are so backward
or recently uncovered--"

The white maples--& hazels--and for the
most part the alders still stand in snow--
alders on the bare place
Yet those by the skunk cabbage, above
named, appear to be no more forward!
Maybe, trees rising so high are more affected
by cold winds than herbaceous plants.

April 3d '56

When I awoke this morning--I heard
the almost forgotten sound of rain
on the roof-- I think there has not been
any of any consequence since Christmas
day-- Looking out I see the air

334 "up" altered from "to"
335 cancelled false start
that
full of fog & the snow has gone off
wonderfully during the night--the drifts
have settled & the patches of bare ground
extended themselves & the river is fast spread
ing over the meadows. The pattering
of the rain is a soothing slumberous
sound which tempts me to lie late--Yet
there is more fog than rain.

Here then at last is the end of the
sleighing--which began the 25th of
December-- Not including that date &
today it has lasted 99 days-- I hear that
will Young Desmond of the Factory" have come
into town 100 times in his sleigh the past winter, if he comes today--having
come probably once in a day.

Pm to Hunt's Bridge--

It is surprising how the earth on bare
south banks begins to show some green-
ness in its russet cheeks in this rain
& fog-- A precious emerald green tinge--
--almost like a green mildew, the growth
of the night--a green blush suffusing
her cheek--heralded by twittering birds--
This sight is no less interesting than
the corresponding bloom & ripe blush
of the fall. How encouraging to per-
ceive again that faint tinge of green--
spreading amid the russet on earth's
cheeks! I revive with nature—her victory is mine. This is my jewelry.

It rains very little, but a dense fog—15 or 20 feet high, rests on the earth all day spiriting away the snow—Behind which the cockerels crow & a few birds sing or twitter. The Osiers look light & fresh in the rain & fog—like the grass—There seems to be a little life in the bark now & it strips somewhat more freely than in winter. What a lusty growth have these yellow osiers 6 feet is common—the last year—chiefly from the summit of the pollards—(but also from the sides of the trunk) filling a quadrant densely with their yellow rays—The white maple buds on the side of some trees—have slightly opened so that I can peep in to their cavities & detect the stamens—They will prob. come next to the skunk cabbage this year—if the cowslip does not—Yet the trees stand in the midst of the old snow—I see small flocks of robins sunning on the bared portions of the meadow—hear the sprayay tinkle of the song-sparrow along the hedges—Hear also the squeaking notes of an advancing flock of red-wings—some where high in the sky—At length detect them high over head advancing N. E. in loose array with

341 "rays—" altered from "rays."

a broad extended front--competing
with each other {drawing} winging their way
to some northern meadow which
they remember. The note of some
is like the squeaking of many signs,
while others accompany them with a
dry steady^ tchuck-tchuck

Hosmer is overhauling a vast heap of
manure in the rear of his barn turning
the ice within it up to the light-- Yet
he asks despairingly what life is for--&
says he does not expect to stay here long.
But I have just come from reading Columella
who describes the same kind of spring work--
in that to him new spring of the world--with
hope--& I suggest to be brave & hope-
ful with nature. Human life may be
transitory & full of trouble but the per-
ennial mind whose survey\(^{342}\) extends from
that spring to this--from Columella
to Hosmer--is superior to change.
I will identify myself with that which
did not die with Columella\(^{343}\) & will not
die with Hosmer--

Coming home along the causeway a
robin sings, though faintly as in may--
The road is a path--here and there
shovelled through drifts which are con-
siderably higher than a mans head on each
side.

\(^{342}\) "whose survey" altered from "which if"
\(^{343}\) "Columella" altered from "columella"
People are talking about
my Uncle Charles-- Minott tells how
he heard Tilly Brown once asking him
(inside? to show him a peculiar^ lock in
wrestling-- "Now dont hurt me--dont
throw me hard"-- He struck his antago-
nist in side his knees with his feet
& so deprived him of his legs.

Hosmer remembers his tricks in the
barroom--shuffling cards &c he could
do any thing with cards-- Yet he did
not gamble-- He would toss up his
hat twirling it over & over & catch it
on his head invariably. Once wanted
to live at Hosmers--but the latter
was afraid of him-- "Cant we study
up something?" he asked-- H. asked him
into the house--& brought out apples
& cider--& Charles--talked-- "You!"
said he "I burst the bully of Lowell"
(or Haverhill?) He wanted to wrestle--
would not be put off-- Well we wont
wrestle in the house-- So they went out to
the yard & a crowd got round. "Come
spread some straw here" said C. "I do'nt
want to hurt him." He threw him at
he told them to spread more straw
once-- They tried again" & he "burst" him

He had a strong head--& never got
drunk--would drink gin sometimes
but not to excess-- Did not use tobacco
except snuff out of another's box
sometimes--was very neat in his person--
Was not profane--though vulgar.

Very few men take a wide survey--their
knowledge is very limited & particular-- I
talked with an old man the other day about
the snow--hoping he could give me some
information about past winters. I said
I guess you don't remember so much
old snow on the ground at this season--

He answered-- "I never saw the snow
%The same man in summer of 59--said he never saw the river so low!! Of what use to
%so deep between my%% house & John's."
%It wasn't a stones through%
Uncle Charles used to say that he
hadn't a single tooth in his head-- The fact
was they were all double--& I have heard
that he lost about all of them by the
time he was 21-- Ever since I knew him
he could swallow his nose--

The river is now generally & rapidly breaking
up-- It is surprising what progress has been //
made since yesterday. It is now generally
open about the town. It has gradually worn
& melted away at the bends where it is shallow
& swift & now small pieces are breaking
off around the edges & floating down
these reaches-- It is not generally floated
off but dissolved & melted where it is--
for the open reaches gradually extend--
themselves till they meet--& there is no
space or escape for floating ice
in any quantity until the ice is all gone.
from the channel-- I think that
what I have seen floating in former
years is commonly such as had risen
up afterward from the bottom of
of flooded meadows. Sometimes however
you observe great masses of floating
ice--consisting of that which is later
to break up--the thicker & more lasting
ice from the broad bays or between bridges.

There is now an open water passage
on each side of the broad field of ice
in the bay above the R. R. The
water which is rapidly rising has over-
flowed the icy snow on the meadows
which is seen a couple of feet beneath
it--for there is no true ice there--
It is this rising of the water that breaks
up the ice more than any thing.
The Mill brook has risen much higher
comparatively than the river.

    Apr 4th '56

The alder scales S of the R. R. beyond
the bridge are loosened-- This corresponds
to the opening (not merely expansion showing
the fuzziness) of the Whi maple buds--
There is still but little rain--but
the fog of yesterday still rests on
the earth-- My neighbor says it is the
frost coming out of the ground. This per-
haps is not the best description of it.
It is rather the moisture in this warm
air--condensed by contact with the snow
& ice & frozen ground. Where the fields
are bare I slump now 3 or 4 inches into
the oozy surface. Also on the bare
brows of hills clad with cladonias-- These
are as full of water as a sponge--

The muskrats no doubt are now being
driven out of the banks. I hear as
I walk along the shore the dull sound
of guns--prob. most of them fired at musk-
rats--borne along the river from dif-
ferent parts of the town--one every two
or 3 minutes--

Already I hear of a small fire in the woods in Emerson's lot
set by the Engine--the leaves that are bare are so dry
I find many sound cabbages shedding
their pollen under Clam Shell\thill.

They\there are even more forward generally
here than at Well\th probably
now dead
2 or 3 only among the alders at the last
place, were earlier. This is simply the ear-
liest flower such a season as this--
i.e. when the ground continues covered
with snow till very late in the spring.
For this plant occupies ground which
is the earliest to be laid bare--those
great dimples in the snow about a

\thill altered from "clam shell"
\th they altered from "there"
\t"w" written over "f"
springy place in the meadow--
5 or 10 feet over--where the sun & light
have access to the earth--a month
before it is generally bare-- In such
localities then they will enjoy an advantage
over most other plants--for they will
not have to contend with abundance
of snow--but only with the cold air--
which may be no severer than usual.
Cowslips & a few other plants sometimes
enjoy the same advantage. Sometimes
apparently the original--now outer
spathe has been frostbitten & is decayed
& a fresh one is pushing up-- I see
some of these in full bloom though
the opening to their tents is not more
effectually protected
than 1/2 inch wide--they are lapped
like tent doors-- Methinks most
of these hoods open to the south.

It is remarkable how completely the
spadix is protected from the weather
--first by the ample hood whose walls are
distant from it--next by the narrow
tent-like door way admitting air & light
& sun--generally I think on the S side--
and also by its pointed top curved
downward protectingly over it-- It
looks like a monk in his crypt--head.
The sides of the door way are (lapped) or
folded & one is considerably in ad-
vance of the other. It is contrived best
to catch the vernal warmth & exclude
the winters cold. Notwithstanding all
the snow the Cabbage is earlier than
last year--when it was also the earliest
flower--& blossomed on the 5th of April--
It is perhaps owing to the long continued warm
weather from Mar 13th to 28th
Yet it has been a hard winter for many
plants--on dry exposed hills-- I am surprised
to see the Clover cinquefoil &c &c--on the
top of the bank at Clam Shell--completely--
withered & straw-colored-- Prob. from the snow
resting on it so long & incessantly.
And plants that grow on high land are more back ward than last year.
The ground no sooner begins to be bare to
a considerable extent than I see a marsh--

The sap of the white birch at Clam shell begins to flow--

The April weather still continues-- It looks
repeatedly as if the sun would shine--&
it rains 5 minutes after. I look out
to see how much the river has risen
Last night there were a great many
they are engulfed & portions or islets visible--now it is a smooth
expans of water & icy snow-- The water has
been steadily deepening on Concord meadows
all night--rising with a dimple about
every stem & bush.
Fm to North River at Tarbell's--

Fair weather again. Saw half a

---

350 "icy" altered from "ice"
dozen black-birds uttering that sign
like note on the top of Cheney's elm--
but noticed\(^{351}\) no red at this distance--
Hear\(^{352}\) after--some red-wings
// were they grackles--? sing boby-lee. Do these ever make
the sign-like note? is not their's
a fine shrill whistle?
The ice from the sides of the rivers\(^{353}\) has
wheeled round in great cakes & lodged
against each of the RR. bridges (i.e.
over each stream)-- Near the town
there is the firmest body of ice (in the
river proper above Hubbards bridge.
A warm & pleasant afternoon. The
river not yet so high by 4 or\(^{354}\) 5 feet as last
winter. Hear on all sunny hill sides
--where the snow is melted--the chink-
clicking notes of the F. hiemalis flitting
before me-- I am sitting on the dried grass
on the S. hill side behind Tarbell's house--
on the way to Brown's-- These birds know
where there is a warm hill side as well
as we. The warble of the blue-bird is
in the air-- From Tarbell's bank
we had look over the bright moving
flood--of the Assabet\(^{355}\) with many
maples standing in it--the purling
& eddying stream--with a hundred
rills of snow water tinkling into it.
Further toward J. P. Browns saw
2 large ant hills--(red before black
// abdomens) quite covered on all the
sunny portion with Ants which
appeared to have come forth quite--

---

\(^{351}\) "noticed" altered from "saw"
\(^{352}\) "Hear" altered from "Do"
\(^{353}\) "rivers" poss. "river"
\(^{354}\) v. pencil line through "or"
\(^{355}\) "Assabet" altered from "assabet"
recently--& were removing obstructions
from their portals. Probably the frost
is quite out there. Their black abdo-
mens glistened in the sun-- Each was
bringing up some rubbish from beneath.

The outlines of one of these hills was
a very regular cone--(drawing)\textsuperscript{354} both were
graceful curves-- Came out upon
the high terrace behind Hosmer's--where
we overlooked the \textit{bright blue} flood
alternating with fields of ice--(we
being on the same side with the sun.)
The first sight of the blue water in the
spring is exhilarating-- Saw half a
dozen white shell drakes in the
meadow--where Nut. Mead. Brook
was covered with the flood. There were
2 or 3 females with them. These ducks
would all swim together first a little
way to the right--then suddenly turn
together & swim to the left--from time
to time making the water fly in a white
spray--ap with a wing. Nearly half a
mile off I could see their green crests
in the sun-- They were partly concealed
by some floating pieces of ice & snow
which they resembled-- On the hill
beyond\textsuperscript{357} Clam-shell scared up 2
Turtle-doves--

\textsuperscript{354} (drawing): poss. false start
\textsuperscript{357} "beyond" altered from "behind"
It is that walking when we must pick the
hardest & highest ground or ice--for
we commonly sink several inches in the
oozy surface--

Ap 6th '56
%i.e. Lily%

he thought heard white-bellied swallows over

also--skimmed over in the night--
the ducks must have had a cold night of it

I thought heard white-bellied swallows over

the house before I arose. The hedges
They twitter over the house only in the morn. at first
resound with the song of the song-sparrow--

He sits high on a spray singing--while I stand
near--but suddenly becoming alarmed
drops down & skulks behind the bushes close
to the ground--gradually removing

far to one side. I am not certain

but I have seen the grass bird--as
well as song-spar this year--(on the 2nd
no--prob not for it has no dark splashes on throat--v 7th prox.)
ult--a sparrow with a light breast
& less brown about the cheeks & head--
The song sparrow I see now has a very
brown breast. What a sly skulking
fellow-- I have a glimpse of him skulking
behind a stone--or a bush next to the
ground--or perhaps he drops into a ditch
just before me--& when I run forward he
is not to {to} be seen in it--having flitted
down it 4 or 5 rods to where it intersected
with another--& then up that--all
beneath the level of the surface--till
he is in the rear of me.

Just beyond Wood's Bridge--I hear

// the Pewee. With what confidence
after the lapse of many months, I come
out to this water side--some warm & pleasant
spring morning--& listening--hear from farther
or nearer--through the still concave of the
air--the note of the first pewee. If there
is one within half a mile--it will be here--&
I shall be sure to hear to hear its simple notes
from those trees--borne over the water. It is
remarkable how large a mansion of the
air you can explore with your ears in the
still morning by the water side.

I can dig in the garden now where the snow is
gone. And even under 6 inches of snow & ice
I make out to get through the frost with
a spade-- The frost will all be out about
as soon as last year--for the melting of the
snow has been taking it out-- It is re-
markable how rapidly the ground dries--
for where the frost is out--the water does
not stand but is soaked up.

There has been no skating the last winter
the snow having covered the ice immediately
& not melting
after it formed--"& the river not rising till
april--when it was too warm to freeze thick
enough--

As we sat yesterday under the warm dry
hillside amid the F. hiemalis--by Tarbell's
I notice the first bluish haze--a small
patch of it over the true Nut meadow
blue pine
seen against the further forest--over
low
the near" yellow one. This was of course the
The subtile vapor which the warmth of the day raised from Nut Meadow--
This, while a large part of the landscape was covered with snow--an affecting announcement of the approach of summer--
The one wood seemed but an underwood on the edge of the other--yet all nut meadow's varied surface--intervened--with its brook--& its cranberries--its sweet-gale, alder, & willow--& this was its blue feather--!

P. m. To Hubbard's 2nd Grove 365 by River,--

At Ivy tree--hear the fine \_\_\_\_\_\_\_\_t\_\_\_\_\_\_\_\_seep

// of a sparrow--& detect the fox colored sparrow--on the lower twigs of the willows & from time to time scratching the ground beneath-- It is quite tame--a single one with its ashy head & mottled breast. It is a still & warm--overcast afternoon and I am come forth to look for ducks on the smooth reflecting water which has suddenly surrounded the village--water half covered with ice or icy snow--

On the 2d ult it was a winter landscape --a narrow river only covered thick with ice for the most part--& only snow on the meadows-- In 3 or 4 days the scene is changed to these vernal lakes--& the ground more than half bare. The reflecting water alternating with un--reflecting ice.

Apparently song sparrows may have the dark splash on each side of the throat

365 "Grove" written over "grove"
but be more often brown on the breast & head—some are quite light some quite dark—Here is one of the light headed on the top of an apple tree—sings un weariedly at regular intervals—something like faster & faster tchulp / chilt chilt, chilt chilt, chilt chilt, chilt chilt / tuller tchay ter

splay-ee / The last or 3d bar I am not sure about—It flew too soon for me. I only remember that the last part was sprinkled on the air—like drops from a rill—as if its strain were moulded by the spray it sat upon—Now see considerable flocks of robins hopping & running in the meadows—crows next the water edge on small isles in the meadow.

As I am going along the Corner road by hear & the meadow mouse brook—“see a quarter of a mile NW—on those conspicuous white oaks near the river in Hubbs 2nd grove—the crows buffetting some intruder—The crows had betrayed to me some large bird of the hawk kind which they were buffet ting— I suspected it before I looked carefully.

I saw several crows on the oaks & also what looked to my naked eye like a cluster of the palest & most withered oak leaves with a black base about as big as a crow— Looking with
my glass I saw that it was a great
bird-- The crows sat about a rod
off higher up while another crow was
occasionally diving at him--& all
were cawing-- The great bird was just
starting-- It was chiefly a dirty white
with great broad wings with black tips
& black on other parts--giving it
the appearance of dirty white barred with
black-- I am not sure whether it was
// a white headed eagle or a fish hawk--
There appeared much more white
than belongs to either--& more black than
the fish hawk has-- It rose & wheeled
flapping several times till it got under
way--then with its rear to me presenting
the least surface--it moved off steadily
over the woods N. W.
in its orbit^ with the slightest possible
undulation of its wings--a noble
like saturn with its ring seen edgewise
planetary motion--^ It is so rare
that we see a large body self sustained
in the air-- While crows sat still
& intent--& confessed their Lord^--
Through my glass I saw the outlines
against the sky
of this sphere^ trembling with life &
power--as it skimmed the topmost twigs
of the wood--Toward some more
solitary oak amid the meadows.
To my naked eye it showed only

^66 "Lord" altered from "lord"
^67 "topmost" altered from "top of"
so much black as a crow in its talons

might-- Was it not the White headed eagle

in the state when it is called the sea eagle?

neck feathers

Perhaps its\textsuperscript{368} were\textsuperscript{368} erected.

I went to the oaks--heard there a Nuthatch's\textsuperscript{369} faint vibrating \textit{tut-tut}--somewhat even like
croaking of frogs-- --as it made its way up the

oak bark--& turned head down to peck. Anon

it answered its mate with a \textit{gnah gnah}

Smelt a skunk on my return at Hubbards

blue berry swamp--which some dogs that had

been barking there for half an hour had probably

worried--for I did not smell it when I went along

first. I smelt this all the way thence home

the wind being S. W. & it was quite as perceptible

in our yard as at the swamp-- The family

had already noticed it--& you might have

supposed that there was a skunk in the

yard--yet it was 3/4 of a mile off at least.

\textsuperscript{370}April 7 Monday--

Launched my boat. through \underline{3--3} rods of ice on the river side--half of which froze last

night. The meadow is skimmed over--but by

mid-forenoon it is melted.

\textsuperscript{370}Pm-- Up river in boat--

The first boats I have seen are out

today--after muskrats \&c-- Saw one this

morning breaking its way far through

the meadow in the ice that had

formed in the night. How independent

they look who have come forth\textsuperscript{371} for a

\begin{quote}
\begin{footnotes}
\footnote{368} "were" altered from "was"
\footnote{369} "Nuthatch" altered from "nuthatch"
\footnote{370} newspaper clipping about snow storms of the past winter inserted between pages
\footnote{371} "forth" altered from "for"
\end{footnotes}
\end{quote}
day's excursion-- Melvin is out--& Goodwin--& another boat still.
They can just row through the thinnest of the ice-- The first boat on the meadow is exciting as the first flower or swallow. It is seen stealing along in the sun under the meadow's edge-- One breaks the ice before it with a paddle while the other pushes or paddles-- & it grates372 & wears against the bows.

// We see Goodwin skinning the muskrats he killed this forenoon on bank at Lee's Hill & mutilated leaving their red carcasses behind. He says

// he saw a few geese go over the Great meadows on the 6th ult-- The half of the meadows next the river or more is covered with snow ice at the bottom--which from time to time rises up & floats--off --there & more solid cakes from over the river--clog the stream where it is least broken up--bridging it quite over-- Great cakes rest against every bridge. We were but just able to get under the stone arches by lying flat & pressing our boat down--after breaking up a large cake of ice which had lodged against the upper side. Before we get to clam shell--see Melvin ahead // scare up 2 black ducks--which make a wide circuit to avoid both him & us-- Shell drakes pass

372 "grates" altered from "greats"
also with their heavy bodies-- See the
red & black bodies of more muskrats
left on the bank at Clam shell—which
the crows have already attacked-- Their hind
legs are half-webbed--the fore legs not at all.
Their paunches are full ap. of chewed
roots--yellowish--& bluish-- Goodwin says
perhaps
they are fatter than usual--"--because they have
not been driven out of their holes heretofore.
The open channel is now either over the river
or on the upper side of the meadows--next
the woods--& hills-- Melvin floats slowly &
quietly along the willows watching for rats
resting there--his white hound sitting still &
grave in the prow--& every little while we hear
his gun announcing the death of a rat or 2.
The dog looks on understandingly & makes no
motion. A the Hubbard bridge we hear
the incessant note of the Phoebe-- Pevet--
--pe-e-vet--pevée Its innocent some--
what impatient call. Surprised to find
the river not broken up just above this
bridge & as far as we can see--prob through
F. H. Pond--prob. in some places you can
cross the river still on the ice. Yet we make
very narrow
our way with some difficulty--through a channel
over the meadow & drawing our boat over
the ice on the river--as far at foot of Fair
Haven.-- See clams fresh opened--
& roots & leaf buds left by rats on
the edge of the ice & see the rats there

373 "over" altered from "in"
374 "Melvin" written over "melvin"
375 "leaf" altered from "leave"
By rocking our boat & using our paddles

1

2
can make our way through the softened

3

ice 6 inches or more in thickness.

4

5

The tops of young young white birches

6

now have a red-pink color-- Leave

7

boat there--

8

//

9

See a yel. spot tortoise in a ditch

10

//

11

& a bay-wing sparrow-- It has no dark

12

splash on throat--& has a light or grey head.

13

Ap. 8th '56

14

1 Pm to boat--at Cardinal376 Shore--& thence
to Well Meadow & back to Port--

15

Another very pleasant & warm day-- The

16

White-bellied swallows have paid us
twittering visits the last 3 mornings

17

(You) must rush out quickly to see them

18

for they are at once gone again.

19

//

20

Warm enough to do without great

21

coat today & yesterday though I carry it

22

& put it on when I leave the boat.

23

Hear the crack of Goodwin's piece
close by just as I reach my boat--

24

Asks if I am bound up stream-- Yes to Well Meadow

25

He has killed another rat--" Says I can't

26

get above the hay path 1/4 of a mile

27

above on ac. of ice--if he could he'd

28

been at Well-Meadow before now.

29

But I think I will try--may be & he

30

thinks if I succeed he will try it--377 By

31

standing on oars which sink several inches

32

& hauling over one cake of ice I manage
to break my way into an open canal

33

above--where I soon see 3 rats

34

swimming-- Goodwin says that

376 "C" written over "F"

377 "it--" altered from "it."

466
he got 24 minks last winter--more
than ever before in one season--trapped most
shot only 2 or 3-- From opposite Bittern Cliff
to Well meadow brook I pushed along with more
or less difficulty to Well meadow Brook-- There
10 feet wide
was a water passage--"where the river had
risen beyond the edge of the ice--but not
more than 4 or 5 feet was clear of the
bushes & trees-- By the side of fair Haven
Pond--it was particularly narrow-- I shaved
the ice on the one hand & the bushes & trees
on the other all the way-- Nor was the
passage much wider below as far back
as where I had taken my boat. For all
this distance the river for the most part, as
well as the Pond--was an unbroken
field of ice. I went winding my way & scraping
between the maples-- Half a dozen rods off
on the ice you would not have supposed
that there was room for a boat
there-- In some places you could have got
on to the ice from the shore without much
difficulty-- But all of well meadow
paddled
was free of ice--& I sailed up to within a
rod or 2 of where I found the cowslips
so forward on the 2nd ult. It is difficult
pushing a boat over the meadows now--
for even where the bottom is not covered
with slippery snow ice which affords no
hold--to the paddle--the meadow is frozen
& icy hard--for it thaws slowly under water.
This meadow is compleley open because none
of the snow ice has risen up-- Sometimes
you see a small piece that has been
released come up suddenly with such force
as to lift it partly out of water--but sinking
again at once--it looks like a shelldrake
which has‘78 dived at a distance--

There in that slow muddy brook near
the head of Well Meadow--within a few
rods of its souce--where it winds amid
the alders--which shelter the plants
somewhat--while they are open enough
now to admit the sun--I find 2

// cowslips in full bloom--shedding pollen
& they may have opened 2 or 3 days ago;
for‘79 I saw many conspicuous buds here
on the 2nd which now I do not see--
they seem to have‘80 been eaten off?‘81 Do we
Have they not
not often lose the earliest flowers thus?
A little more--or if the river had risen
as high as frequently--they would have been
submerged-- What an arctic voyage
was this in which to find cowslips--
the Pond & river still frozen over for
the most part as far down as Car-
dinal Shore!

Saw 2 marsh hawks this pm cir-
cling low over the meadows--
along the water's edge--this shows that--frogs must be out
Goodwin & Puffer both fired at one
from Wm Wheeler's shore-- The
They say they made him duck & disturbed his feathers some.
muskrats are now very fat-- They are reddish
brown beneath--& dark brown above. I see
not a duck in all thisapers voyage--perhaps
they are moving forward this bright &
warm day. Was obliged to come down as
far as Nut meadow--(being on the west
side--) before I could clear the ice--&
setting my sail tack across the meadow
for home-- The wind N westerly-- The
river is still higher383 than yesterday.
--About 8 1/2 Pm--hear geese passing
--quite low over the river--

Found beneath the surface in the sphagnum
near the cowslips a collection of little hard nuts--
with wrinkled shells a little like nutmegs--perhaps
bass nuts--collected after a freshet by mice!
I noticed that the fibres of the alder roots in
the same place were thickly with little yellow
knobby fruit-- Was not that clear light
brown snail in that sphagnum a diff.

species from the common one in brooks?
See a few cranberries & smell muskrats--
On the F. H. Cliff crowfoot & saxifrage
are very backward-- That dense growing
moss on the rocks--shows now a level surface
of pretty crimson cups.

Noticed returning this P. m. a muskrat sitting
near a small hole
on the ice^ in Willow Bay384-- So motionless &
withal round & featureless--of so uniform
a color--that half a dozen rods off

382 "this" altered from "the"
383 poss v. pencil line through "higher"
384 "Willow Bay" altered from "willow bay"
I should not have detected him—if not accustomed to observing them—Saw the same thing yesterday, It reminds me of the truth of the Indians name for it "That sits in a round form on the ice—" You would think it was a particular ly round clod of meadow mud rising above the ice— But while you look it concludes its meditations—or perchance its meal & deliberately takes itself off through a hole at its feet—and you see no more of him. I noticed 5 musk-rats this Pm without looking for them very carefully—4 were swimming in the usual manner—showing the vertical tail—and plunging with a half summer set suddenly before {my} boat— While you are looking these brown clods slide off the edge of the ice & it is left bare— You would think that so large an animal sitting right out upon the ice would be sure to be seen—or detected—but not so— A citizen might paddle within 2 rods & not suspect them— Most country-men might paddle 5 miles along the river now & not see one muskrat— 1/4 of a mile before or While a sportsman behind would be shooting one or more every 5 minutes— The other left to himself might not be able to guess what he was firing at.
The marsh-hawks flew in their usual irregular
low tacking--wheeling & circling flight--leisurely
flapping & beating now rising now falling
in conformity with the contour of the ground.
The last I think I have seen on the same
beat in former years--he & his race must
be well acquainted with the Musketicook
& its meadows. No sooner is the snow off
than he is back to his old haunts--scanning
that part of the meadows that is bare
while the rest is melting-- If he returns
from so far--to these meadows--shall the
River had risen so since yesterday I could not get under the bridge
sons of Concord be leaving them at this
but was obliged to find a round stick & roll my boat over the road.
season--for slight cause?

Wednesday April 9th
Another fine day-- 7 Am to Trillium woods--
air full of birds-- The line I have measured
W of RR is now just bare of snow--though //
a broad & deep bank of it lies between that
line & the RR-- E of RR has been bare some
time. The line in Trillium woods is ap. just
bare also. There is just about as much
snow in these woods now as in the meadows
and fields around generally--i.e. it is con-
There is not so much as on the E side of Lee's Hill
fined to the coldest sides--as in them." It
is toward385 the N (&) E sides of the wood.
Hence--ap. in a level wood of this character
the snow lies no longer than in adjacent
fields divided by fences &c--or even without
them.

385 "toward" altered from "on a si"
The air is full of birds and as I go down

// the cause way I distinguish the seringo
now to be surely advertised of each new
commer into these broad meadows-- Many a
larger animal might lie concealed, but
a cunning ear detects the arrival of
each new species of bird-- These birds
give evidence that they prefer the fields of
New England to all other climes--deserting
for them the warm & fertile south--here
is their paradise-- It is here they express the
most happiness by song & action-- Though
these spring mornings may often be
frosty & rude--they are exactly tempered
to their constitutions-- call forth their
sweetest strains-- The yellow birch sap

// has flowed abundantly--prob before the
white birch.
%
8 Am--by boat to V. Palmata
Swamp--for White birch sap.

// Leave behind great coat-- The waters
have stolen higher still in the night
around the village--bathing higher its
dry fences & its` withered grass stems with
a dimple-- See that broad smooth vernal
lake--like a painted lake--not a breath
disturbing it-- The sun & warmth &
smooth water & birds make it a
carnival of nature's-- I am surprised

386 "Many" altered from "A"
387 "constitutions--" altered from "constitutions."
388 "Palmata" cancelled in pencil and revised above
389 "W" altered from "B"
when I perceive men going about their
ordinary occupations-- I presume that before
10 o'clock at least all the villagers will have
come down to the bank & looked over this
bright & placid flood--the child &
the man--the house-keeper & the invalide--
Even as the village beholds itself re-
flected in it-- How much would be
subtracted from the day if the water was
taken away. This liquid transparency--of melted
snows partially warmed--spread over the
russet surface of the earth! It is certainly
important that there be some priests--some
worshippers of nature-- I do not imagine
any thing going on today away from & out
of sight of the water side.

Early aspen catkins have curved downward an //
inch--& began to shed pollen ap yesterday X White
maples also the sunny sides of clusters & sunny sides //
of trees in favorable localities shed pollen today X
I hear the note of a lark amid the other //
birds on the meadow-- For two or three days
have heard delivered often & with greater
emphasis the loud clear sweet phœbe
note of the chicadee--elicited by the warmth. //
Cut across Hosmer's mead from Island to
still rising
black oak creek--where the river^ is breaking
over with a rush & a rippling-- Paddled quite
to the head of Pinxter swamp where were 2 black
ducks amid the maples—which went off
with a hoarse quacking—leaving a feather
on the smooth dark water amid the fallen
tree tops & over the bottom of red leaves.

Set 2 sumach spouts in a large white
Southward
birch in the swamp—& hung a tin pail to them—
& set off to find a yel-- birch-- Wandering over
that high huckleberry pasture I hear—the
sweet jingle of the F. juncorum— In a
leafy pool in the low wood toward the
river— hear a rustling—& see yel spot
tortoises dropping off an islet—& into the
dark stagnant water—& 4 or 5 more lying
motionless on the dry leaves of the shore & of
islets about. Their spots are not very
conspicuous out of water—and in most danger—
The warmth of the day has penetrated into
these low swampy woods on the NW of
the hill—& awakened the tortoises from their
winter sleep. These are the only kind of tortoise
Probably
I have seen this year. Perhaps
Because the
river did not rise earlier & the brooks broke
& thaw them out. When I looked about
I saw the shining black backs of 4 or 5
still left—& when I threw snow balls at
them they would not move— Yet from
time to time I walk 4 or 5 rods over
deep snow banks—slumping in on the N
& E sides of hills & woods— Ap. they love
to feel the sun on their shells— As I walk
in woods where the dry leaves are just laid
bare—I see the bright red berries of the
solomon seal still here & there above the leaves.
--affording food no doubt for some
creature. Not finding other birches
I returned to the 1st swamp & tapped 2 more white birches. They flow generally faster than the red or white maples when I tried them. I sit on a rock in the warm sunny swamp-- where the ground is bare--& wait for my vessels to be filled-- It is perfectly warm & perhaps drier there than even here-- The great butterflies--black with buff-edged wings are fluttering about--& flies are hovering over this rock-- the spathes of the skunk cabbage stand thickly amid the dead leaves--the only sign of vegetable life. A few rods off I hear some sparrows busily scratching the floor of the swamp--uttering a faint streep streep--& from time to time a sweet strain-- It is prob. the fox-col. sparrow-- These always feed thus I think in swamps. a flock of them rapidly advancing--flying before one another through the swamp-- A robin peeping at a distance is mistaken for a hyla-- A gun fired at a muskrat on the other side of the island towards the village--sounds like planks thrown down from a scaffold--borne over Meanwhile I hear the sap dropping into my pail-- the water--" The birch sap flows thus copiously other before there is any sign of life in the tree-- the buds not visibly swolen-- Yet the aspen though in bloom shows no sap when I cut it nor does the alder. Will their sap flow later? Prob. this birch sap like the maple flows little if any at night.

393 "It" altered from "The"
It is remarkable that this dead looking trunk should observe such seasons--
distinguish between day & night--

When I return to my boat I see the snow fleas like powder in patches on
the surface of the smooth water amid the twigs & leaves-- I had paddled far
into the swamp amid the willows & maples-- The flood has reached & upset & is floating off the choppers corded wood-- Little did he think of this thief.

It is quite hazy today-- The red-wing's o'gurgle-ee-e-- is in singular harmony with the sound & impression of the lapsing stream or the smooth swelling flood beneath his perch-- He gives expression to the flood. The water reaches far in amid the trees on which he sits-- & they seem like a water organ played on by the flood-- the sound rises up through their pipes.

There was no wind & the water was perfectly smooth-- a sabbath stillness till 11 A. m.

// We have had scarcely any wind for a month. Now look out for fires in the woods for the leaves are never so dry & ready to burn as now-- The snow is no sooner gone-- may it may still cover the N & E sides of hills-- when a day or 2's sun & wind-- will prepare the leaves to catch at the last spark-- Indeed there are such leaves as have never yet been wet-- as have blown about & collected.

394 "sun" altered from "wind"
in heaps on the snow & they would burn there in mid-
winter though the fire could not spread much--

If the ground were covered with snow would any
degree of warmth produce a blue haze like this?
-- But such a fire can only run up the S & SW
sides of hills--at this season-- It will stop
at the summit & not advance forward far
nor descend at all toward the N & E.

A very warm day

by the RR op. the oaks sheds pollen X At
the 1st named alder--saw a striped snake, which
prob I had scared into the water from the
warm RR-- bank--, its head erect as it
lay on the bottom & swaying back & forth
with the waves which were quite high--
though considerably above it. I stood there 5
minutes at least--& prob. it could remain--
there an indefinite period.

The wind has now risen a warm, but pretty
strong southerly wind--is breaking up those
parts of the river which are yet closed-- The great
mass of ice at Willow Bay\(^{395}\) has drifted down
against the RR bridge. I see no ducks--it is too windy for muskrat shooters-- In a leafy
pool by RR which will soon dry up I see large
skater insects--where the snow is not all melted.
The willow catkins there near the oaks show
the red of their scales at the base of the catkins

---

\(^{395}\) "Willow Bay" altered from "willow bay"
dimly through their down—a warm^ glow
or blush—They are an inch long—others
about as much advanced but rounded—

They will perhaps blossom by day after tomorrow—
& the hazels on the hill side beyond as soon at
least if not sooner—They are loose & begin to
The stigmas already peep out minute crimson stars—Mars.
dangle.—The skaters are as forward to play
on the first smooth & melted pool—as boys
on the first piece of ice in the winter. It must
be cold to their feet. I go off a little to the right
of the RR & sit on the edge of that sand
crater near the spring by the RR—Sitting
there on the warm bank—above the broad
curled
of^ early sedge grass showing a little green
amid russet banks^ & dry leaves at base
shallow crystalline pool on the sand^-I

// hear one hyla peep faintly several times.

This is then a degree of warmth sufficient for
the hyla—He is the first of his race to awaken
to the new year—& pierce the solitude with his voice.
He shall wear the medal for this year.

You hear him but you will never find him. He
is somewhere down amid the withered sedge & alder
bushes there by the water's edge—but where?
From that quarter his shrill blast sounded—
but he is silent again—for [the] & a could
kingdom will not buy it again

The communications from the gods to us are
still deep & sweet indeed—but scanty & transient
—enough only to keep alive the memory of the
past. I remarked how many old people
died off on the approach of the present
It is said that when the sap begins to flow in the trees our diseases become
more violent
spring.—It is now advancing toward
summer apace & we seem to be reserved
to taste^ its sweetness—but to perform
what Great^ deeds? Do we detect

^He^ altered from "His"
^taste^ altered from "haste"
^Great^ altered from "great"
also

the reason why we did not die on the approach of Spring.

I measured a white oak stump just sawed off by the RR there averagin just 2 feet in diameter with 142 rings--another near by 1 1/2 inches broader had but 105 rings.

While I am looking at the hazel I hear from the old locality--the edge of the great pines & oaks in the swamp by the RR--the note of the Pine warbler //
it sounds far off & faint--but coming out iron & sitting on the" rail-- I am surprised to see it within 3 or 4 rods on the upper part of a white oak--where it is busily catching insects--hopping along toward the extremities of the limbs & looking off on all side--2ce darting off like a wood pewee 2 rods over the RR--after an insect & returning to the oak--& from time to time uttering its simple rapidly iterated cool sounding notes-- When heard a little within the wood as he hops to that side the oak--they sound particu-\nlarly cool & inspiring like a part of the ever-\ngreen forest itself-- --the trickling of the sap-- Its bright yellow or golden throat & breast &c are conspicuous--at this season--a greenish yellow above--with 2 white bars on its bluish brown wings-- It sits often with loose hung wings. & forked tail.

Meanwhile a bluebird sits on the same oak 3 rods off pluming its wings-- I hear faintly the warbling of one\
ap. 1/4 a mile off & very slow to detect that it is even this one before

399 "one" altered from "a"
me which in the intervals of pluming itself is apparently practising in an incredibly low voice.
The water on the meadows now, looking with the sun is a far deeper & more exciting blue than the heavens.
The thermometer at 5 pm is 66° and it has prob. been 70° or more & the last 2 days have been nearly as warm.
This degree of heat then brings the F. juncorum & Pine warbler—& awakes the hyla.

Thursday Ap 10th

Fast day-- Some fields are dried sufficiently for the 40° games of ball—wth which this season is commonly ushered in. I associate this day, when I can remember it, with games of base-ball played over behind the hills in the russet fields toward Sleepy Hollow where the snow was just melted & dried up. --& also with the uncertainty I always experienced whether the shops would be shut --whether we should have an ordinary dinner an extraordinary one—or none at all— and whether there would be more than one service at the meeting house--this last uncertainty old folks share with me.-- This is a windy day drying up the fields--the first we have had for a long time

Therien describes to me the diagonal notch he used to cut in maples & birches (not having heard of boring) & the half

400 "the" inserted
round spout cut out of chestnut or other straight
grained wood—with a half round chisel sharped
and driven into a new-moon cut made by the
partly side wise to the tree
same tool.” This evidently injured the trees more than
the auger. He says they used to boil the birch down
to a syrup—and he thought that the black
birch would run more than any tree.401

P.M. I set out to sail—the wind N.W. but it
is so strong—and I so feeble—that I gave it
up—The waves dashed over into the boat & with
their sprinkling wet me half through in a
few moments. Our meadow sea looks as angry
now as it ever can—I reach my port—and
go to Trillium Wood to get Yellow Birch sap.
The deep cut is full of dust—This
wind unlike yesterdays has a decidedly cold
vein in it. The ditch by Trillium wood is strewn
with yellowish hemlock leaves—which are still
falling. In the still warmer & broader con-
tinuation of this ditch south of the wood, in
the SW recess—I see 3 or four frogs
jump in some prob. large R. palustris
otheras quite small—They are in before I see
them plainly & bury themselves in the mud
before I can distinguish them clearly—they were
evidently sitting in the sun by that leafy ditch
in that still & warm nook—Let them beware
of marsh-hawks—I saw also 4 yel—spot tortoises
paddling about under the leaves on the bottom

401 The following page shows at the end of several lines on this page
there. Once they were all together. This ditch

is commonly dry in the summer--

I set 3 spouts in a tree 1 foot in diameter---& hung on a quart pail

The yellow birch sap runs very fast--

then went to

I was going & returning from looking at the

golden Saxifrage in Hubbard's close--when

I came back the pail was running over-- This

was about 3 Pm-- Each spout dripped

about as fast as my pulse--but when I

left at 4 Pm it was not dropping so fast.

// The red maples here do not run at all

now--nor did they yesterday-- Yet one

up the Assabet did yesterday. Apparently

the early maples--have ceased to run.

We may now say that the ground

// is bare--though we still see a few

patches--or banks of snow on the

especially on the N. E. sides of hills

hill sides at a distance^ You see

much more snow looking west--

than looking east. Thus does this

memorable winter disappear at last.

Here & there its veteran snow banks spot

the russet landscape. In the shade of

walls & north hill sides--& cool hollows in

the woods it is panting its life away. I

look with more than usual respect--if not

with regret--on its last dissolving traces.

Is not that a jungermannia which

so adorns the golden epidermis of the yellow

birch with its fine fingers?

I boil down about 2 quarts of this

yel. birch sap to--2 teaspoonfuls of

a smart tasting syrup-- I stopped there
else should have boiled it all away. A slightly medi-
cinal taste--yet not disagreeable to me--It yields
but little sugar then.

Ap. 11th

8 1/2 Am. To Tarbells--to get Black &
Canoe-birch sap--

Going up the RR I see a male & female^ grackle //

alight on an oak near me--the latter apparently
a flaxen brown--with a black tail--She looks like a
different species of bird--Wilson had heard only a
tchuk from the grackle--but this male who
was courting his mate--broke into incipient warbles--
like a bubble burst as soon as it came to the
surface--it was so aerated--Its air would not
be fixed long enough. Set 2 spouts in a canoe-
birch 15 inch diameter--& 2 in a black birch

2 ft in diameter. Saw a king fisher on //
does not its arrival mark some new movement--in its finny prey? he the bright ^

buoy that betrays it! a tree over the water.^ & hear in the old place

the pitch pine grove on the bank by the
river--the pleasant singing note of the
pine warbler--its a-che, vitter vitter, vitter
vitter, vitter vitter, vitter vitter, vét. rings
through the open pine grove--very rapidly.

--I also heard it--at the old place by the RR--
as I came along. It is remarkable that
I have so often heard it first in these
2 localities--i.e. Where the RR. skirts the N.
edge of a small swamp--densely filled with
old
tail^ white pines & a few white oaks-- And

402 "the bright" altered from "that bright"
in a young pitch pine grove composed wholly of very pitch pines on the otherwise bare high & level bank of the Assabet--When the season is advanced enough--I am pretty sure to hear its ringing note in both those places. The hazel sheds pollen today X; some elsewhere possibly yesterday--The sallow up not till 13th X

When I cut or break white-pine twigs now the turpentine exudes copiously from the bark--even from twigs broken off in the fall & now freshly broken ^--clear as water, or crystal--How early did it?
The Canoe birch sap flowed rather the fastest--I have now got 4 kinds of birch sap--that of the White birch is a little tinged brown ap. by the bark--the others are colorless as water I am struck by the coolness of the sap though the weather may be warm--Like wild apples--it must be tasted in the fields--& then it has a very slightly sweetish & acid taste & cool as iced water--I do not think I could distinguish the different kinds^ with my eyes shut--I drank some of the black birch wine with my dinner for the name of it--But as a steady drink to be recommended to it is only for outdoor men & foresters

Now is ap. the very time to tap birches of all kinds. I saved a bottle-full each of the White Canoe & black-birch sap--(the yellow I boiled) & in 2{44} hours they had
but the white
all^ acquired a slight brown tinge. birch was the most brown
They were at first colorless
On the whole I have not observed so much
difference in the amount of sap flowing from
the 6 kinds of trees which I have tapped--as
I have observed between dif. trees of the
same kind--depending on position &
size. & c This flowing of the sap under
the dull rinds of the trees is a tide which
few suspect.

Though the snow melted so much sooner on the
E side of the RR. causeway than on the W--
I notice that it still lies in a broad
deep bank on the E side of Cheneys row
of Arbor-vitae--while the ground is quite
bare on the west-- Whence this difference?

A few more hylas peep today though it
is not so warm as the 9th--//

These warm & pleasant days I see very few
ducks about though the river is high.

The current of the Assabet is so much
swifter--& its channel so much steeper
than that of the main stream--that
while a stranger stranger^ frequently cannot
tell which way the latter flows by his
eye--you can perceive the declination
of the channel of the latter within a
very short distance--even between one
side of a tree & another-- You perceive
the waters heaped on heaped^ the upper side of rocks

---

403 "They" altered from "These"
404 "stranger" altered from "strange"
405 "on" altered from "one"
& trees--& even twigs that trail in
the stream.

Saw a pickerel washed up--with
a wound near its tail--dead a week
at least-- Was it killed by a fish-hawk?

Its oil when disturbed smoothed" surface
of the water with splendid colors-- Thus close
ever is the fair to the foul-- The iridescent

oily surface-- The same object is ugly or
beautiful according to the angle from
which you view it. Here also in the
river wreck is the never failing teazle
telling of the factory above--& saw-dust
The teazed river! These I do not notice on the S branch.
from the mill.".

// I hear of one field plowed & harrowed. Geo.
Heywood's-- Frost out there earlier than last year.
You thread your way amid the

rustling oak leaves on some warm hill
side--sloping to the south--detecting no
growth as yet--unless the flower-buds
of the amelanchier are somewhat expanded
when glancing along the dry stems--in
the midst of all this dryness--you detect
the crimson stigmas of the hazel--like little
stars peeping forth--& perchance a few
catkins are dangling loosely in the
zephyr & sprinkling their pollen on the
dry leaves beneath--

You take your way along the edge
of some swamp that has been cleared
at the base of some south hill-side
where there is sufficient light & air
& warmth--but the cold northerly winds are
fended off--& there behold the silvery catkins
of the sallows--which have already crept
along their lusty osiers more than an inch
in length--till they look like silvery wands--
though some are more rounded like bullets
--The lower part of some catkins which
have lost their bud scales--emit a
tempered crimson blush through their down
from the small scales within-- The catkins
grow longer & larger as you advance into
the warmest localities--till at last you
discover one catkin in which the reddish anthers
near the end
are beginning to push from one side--& you
know that a little yellow flame will have
burst out there by tomorrow--if the day is fair.
I might said on the 8th-- Behold that
little hemisphere of green in the black & sluggish
amid the open alders
brook--sheltered under a russet tussuck-- It is
the cowslip's forward green-- Look narrowly explore
the warmest nooks--here are buds larger yet
showing more yellow--& yonder see 2 full
blown yellow disks close to the waters edge--
Methinks they dip into it when the frosty
nights come. Have not these been mistaken
for dandelions?
Or on the 9th-- This still warm morning paddle
your boat into yonder smooth cove
close up under the south edge of that
of that wood which the april flood is
bathing--& observe the great mulberry like
catkins of yonder aspen curving over & downward
--some already an inch or more in length--
like great reddish caterpillars covered
thickly with down--forced out by heat--& already
loose & of
the sides & ends of some are a pale straw color
shedding their pollen-- These for their for-
wardness are indebted to the warmth of
their position--

Now for the White-maple the same day
paddle under yonder graceful tree
which marks where is the bank
of the river--though now it stands
in the midst of a flood a quarter
of a mile from land--hold fast
by one of its trailing twigs--for the
stream runs swiftly here-- See how
the tree is covered with great globular
clusters of buds-- Are there no anthers
nor stigmas to be seen--? Look up-
ward to the sunniest side--steady--when
the boat has ceased its swaying--do
you not see 2 or 3 stamens glisten like
spears advanced on the sunny side of
a cluster?-- Depend on it the bees will
find it out before noon far over the
flood as it is.

Seek out some young & lusty growing
alder (as on the 9th) with clear shining
& speckled bark--in the warmest possible
position—perchance where the heat is reflected
from south some bank or hill side & the water
The scales of the catkins generally are loosened but
bathes its foot—^ On the sunniest cheek
of the clump behold one or 2 far more con-
siderably loosened—wholly or partially dangling
& showing their golden insides—Give the most
forward of these a chuck & you will get a
few grains of its yellow dust in your hand.
Some will be in full bloom above while their
extremities are comparatively dead as if struck
with a palsey in the winter. Soon will come
a rude wind & shake their pollen copiously
over the water.  Ap. 12th ’56

There is still a little snow ice on the N side
of our house 2 feet broad—a relic of
the 25th of December—This is all there is on
our premises.

Ac. To Rees Cyclopedia the sap of
the birches is fermentable in its natural
state—also "Ratray, the learned Scot, affirms,
that he has found by experiment, that the liquor
which may be drawn from the birch tree in
the spring time is equal to the whole weight
of the tree, branches, roots, & all together".

I think on the whole that of the particular
trees which I tapped—the yellow & canoe birches
flowed the fastest.

Hazy all day with wind from the west—
threatening rain—haze gets to be very thick
& perhaps smoky in the P. m.—conceal—

406 “a” altered from "the"
ing distinct forms of clouds--if there are any. Can it have anything to do with fires in woods West & SW? yet it is warm.

5 Pm Sail on the meadow-- There suddenly flits before me & alights on a small apple tree in Mackay's field as I go to my boat--a splendid purple-finch-- Its glowing redness is revealed when it lifts its wings--as when the ashes is blown from a coal of fire-- Just as the oriole displays its gold.

// The river is going down--& leaving the line of its wrack on the meadow-- It was at its height when the snow generally was quite melted here--ie. yesterday. Rains considerably in the evening. Perhaps this will raise the river again. No--

Sunday Ap. 13th '56

8 Am. Up RR-- Cold--& froze in the night. The Sallow will not open till some time today.

I hear a bay wing on the RR. fence sing the rhythm--somewhat like--
or here here fast
char char, che che, chip chip chip,
very fast & jingling jinglingly chitter chitter chitter chit, chea chea.

It has another strain considerably different but a 2nd also sings the above--2 on different posts are steadily singing the same--as if contending with each other--notwithstanding the cold wind.

407 v. line through "froze"
408 "if" altered from "is"
P. m. to Walden--& F. H. Ponds--
Still cold & windy
The early gooseberry leafbuds--in garden have
burst--now like small green frilled horns.-- Also
the Amelanchier flower buds are bursting.
As I go down the R. R.-causeway--I see a flock
of 8 or 10 bay-wing sparrows' fitting along the
fence & alighting on the apple tree-- There
are many robins about also-- Do they not
incline more to fly in flocks a cold & windy day
like this?
The snow ice is now all washed^ off of
Walden--down to the dark green clear ice
which appears to be 7 or 8 inches thick & is
quite hard still-- At a little distance
you would mistake it for {water}--
further off still as from F. H. Hill--it is
blue as in summer-- You can still get
on to it from the southerly side--but
elsewhere there is a narrow canal 2 or 3 to
12 feet wide next the shore-- It may
last 4 or 5 days longer, even if the
weather is warm--

As I go by the andromeda ponds I hear
the tut tut of a few croaking frogs.
and at Well meadow I hear once or
twice a prolonged stertorous sound--as from
river meadows a little later usually--which
is undoubtedly made by a dif. frog from
the first--
Fair. Haven Pond to my surprise is com--

---

409 “have” altered from “has”
410 “as” written over “is”
411 “usually--” altered from “usually.”
completely open-- It was so entirely frozen
over on the 8th ult-- that I think
the finishing stroke must have been given
to it--but by last nights rain. Say then
Ap. 13th(?)

Return over the shrub oak plain
& the Cliffs. Still no cowslip--nor saxifrage
There were alders out at Well meadow
head--as large bushes as any--can they
be A. serrulata-- V. leaves by & by.

Standing on the Cliffs I see most snow
when I look s. w.--indeed scarcely a
far or near
particle in any other direction--^ from
which & from other observations--I
infer that there is most snow now
under the N. E. sides of the hills--especially
in ravines there.

At the entrance to the Boiling spring wood
just beyond the Orchard--(of Haden) the N. E.
angle of the wood--there is still a snow
//
drift as high as the wall--or 3 1/2 feet
quite
deep--stretching^ across the road at that
height--& the snow reaches 6 rods down
the road. I doubt if there is as much
in the road anywhere else in the town--
It is quite impassable there still to a
horse--as it has been since December--
all winter.-- This is the heel of the winter

Scare up 2 turtle doves in the
dry stubble in Wheelers hill field
by the RR-- I saw two together once before
this year—probably they have paired.

Monday Ap. 14th '56

A raw over-cast morning

8 Am. Up Assabet—See one striped squirrel

chasing another round & round the Island—with

a faint squeak from time to time—a rustling

of the dry leaves—They run quite near to the water.

Hear the Flickers cackle on the Old aspen

& his tapping sounds afar over the water.

Their tapping resounds this far—with this pec-ular ring & distinctness because it is a hollow

tree they select—to play on—as a drum or tambour.

It is a hollow sound which rings (ehong) & dis-tinct—to a great distance—especially over water.

I still find small turtles eggs on the surface

etire—while looking for arrowheads by

the Island.

See from my window—a fish-hawk flying high //

W of the house—cutting off the bend between

Willow Bay & the meadow in front of the house—

between one vernal lake & another—he suddenly

straightening out his long narrow wings

high

wheels & makes one circle above the last

meadow as if he had caught a glimpse

of a fish beneath—a then continues his

course down the river.

P. M.

Sail to Hill by Bedford line

Wind S. W. & pretty strong—sky overcast

weather cool—Start up a fish-hawk

from near the swamp white oaks SW
undoubtedly the one of the morning
of the Island." I now see that this
is a much darker bird both above
& beneath—than that bird of
the 6th ult. It flies quite low, — surveying the water, in an undulating buoy-
ant manner—like a marsh hawk
or still more a Night hawk—with its
long curved wings. He flies so low west-
ward that I lose sight of him against
the dark hill-side & trees—

The river is going down rapidly—yet the
Hunts Bridge causeway is but just bare—
The S side of Ponkawtasset looks
much greener & more forward than
any part of the town I have noticed.
It is almost like another season there—
They are already plowing there413.

I steer down straight through the
Great Meadows—with the wind almost
directly aft—feeling it more & more
the farther I advance with them. They
make a noble lake now— The boat
tossed up by the rolling billows keeps
falling again on the waves with a
chucking sound which is inspiring.
There go a couple of ducks which
probably I have started—now scaling
far away on motionless pinions with
a straight descent in their low flight
toward some new cove— Anon

413 "there" written over "pl"
I scare up 2 black ducks which make
one circle around me reconnoitering--& rising
higher & higher--then go down the river.
Is it they that so commonly practice this
manoeuvre-- Peters is now far behind--
on a forgotten shore-- The boat moored beneath
his hill is no longer visible--& the red russet
hill which is my goal rises before me--
I moore my boat to a tree at the base of
this hill-- The waves are breaking with
as on a sea-beach
violence on this shore--& here is the first
painted tortoise just cast up by them--&
//
lying on his back amid the stones--in
the most favorable position to display his bright
vermillion marks--as the waves still break--
over him. He makes no effort to turn
himself back--probably being weary con-
tending with the waves-- A little further
is another--also at the mercy of the
waves--which greatly interfere with its staid
helplessly
& measured ways--its head" wagging
with every billow-- Their scales are very
clean & bright now-- The only yellow I
notice is about the head & upper part of the
tail. The scales of the back are separated
or bordered with a narrow greenish yellow
band edging. Looking back over
the meadow from the top of this hill
I see it regularly watered with foam--

414 "at" altered from "on"
streaks from 5 to 10 feet apart--
extending quite across it in the direction
of the wind—Washed up against
this shore I see the first dead sucker--
  You see now adays on every side on
the meadow bottom—the miserable carcasses
of the musquash stripped of their pelts.
  I saw one plunge from beneath the monument.
There is much lumber—fencing stuff &c
to be gathered now—by those inclined—
  I see an elm top at the Battle ground
covered—uttering their squeaks & split
whistles—as if they had not got their
voice yet—and a course rasping tchuck
or char—not in this case from a crow—
b. bird.
  Again I see the Fish hawk near
the old place—He alights on the
ground where there is a ridge covered
with bushes surrounded by water—but
I scare him again—and he finally
goes off N. E flying high.
  He had ap. stayed about that place
all day fishing.

April 15th ’56

6 1/2 Am to Hill.
It is warmer & quite still—somewhat
cloudy in the east—The water quite
smooth—April smooth waters—
I hear very distinctly Barrett's saw

“wind—” altered from “wind.”
“they” altered from “their”
mill at my landing--. The purple finch
is singing on the elms about the house
together with the robins--whose strain its resem-
bles ending with a loud shrill ringing
chilt chilt chilt chilt-- I push across the
meadow & ascend the hill. The white bellied
swallows are circling about & twittering above
the apple trees & walnuts--on the hill-side. Not
till I gain the hill-top do I hear the note
of the (F. juncorum) huckleberry bird from the
plains beyond-- Returned again toward
my boat I hear the rich--watery note of
the martin making haste over the edge
of the flood-- A warm morning over smooth
water before the wind rises is the time to hear
it-- Near the water are many recent skunk
proings--as if a drove of pigs had passed along
last night--death to many beetles & grubs--
From amid the willows and alders along
the wall there I hear a bird sing--
thus, to make it rapid
a-chitter chitter chitter chitter chitter chitter
-che che che che, with increasing intensity
& rapidity--& the yellow red-poll hops in
sight-- A grackle goes over (with 2 females)
& I hear from him a sound like a watch-man's
rattle--but little more musical.

What I think the Alnus serrulata?=--all  
%Is that one at Bristers spring?%
& shed pollen to-day X--on the edge of Cat--
% at Depot brook crossing%  
bird meadow-- Also grows on the W. edge of
Trillium Wood.

417 "all" altered from "is"
Coming up from the river side I see

hear the harsh rasping char-r char-r

of the crow black bird--like a very coarsely
vibrating metal, & looking up see 3

flying over--

Some of the early willow catkins have opened

in my window--As they open they curve backwards
exposing their head to the light.

By 9 Am the wind has risen--the water
is ruffled--the sun seems more perma-
nently obscured--& the character of the
%First Salmon & Shad at Haverhill today%418

day is changed.

It continues more or less cloudy &

rain-threatening all day.

Ed. Emerson saw a toad in his garden
today--& coming home from his house
rather
at 11 P. m. a still &^ warm night
I am surprised to hear the first loud clear
prolonged
^ring of a toad--when I am near

Charles Davis' house. The same, or
another--rings again on a different
key--I hear not more than 2--perhaps
only one-- I had only thought of them
as commencing in the warmest part
of some day--but it would seem that
may first be heard in the night-- Or
perhaps this one may have piped
in the day & his voice been drowned by
day's sounds-- Yet I think that

---

418 newspaper clipping about the first salmon and shad of the season inserted between pages
419 "coming" poss written over "ho"
this night is warmer than the day has
been-- While all the hill side else per-
haps is asleep this toad has just awaked
to a new year-- It was a rather warm
moist night--the moon partially obscured
by misty clouds--all the village asleep--
only a few lights to be seen in some windows
when as I passed along under the
warm hill side I heard a clear shrill
prolonged ringing note from a toad
the first toad of the year--sufficiently coun-
tenanced by its Maker in the night & the
solitude-- then again I hear it (before
I am out of hearing--i.e.--it is deadened
by intervening buildings) on a little higher
key. At the same time I hear a
part of the hovering note of my first
snipe circling over some distant meadow
a mere waif--& all is still again.
--a-lulling the watery meadows--Fan-
ing the air like a spirit over some far
meadows' bay.-- And now there
far vernal sounds there is only the
low sound of my feet on the mill dam
side walks.

Ap 16 '56
I have not seen a tree sparrow, I
think since December--
5/2 Am. To Pinxter swamp over
hill-- A little sunshine at the rising--
I standing by the river see it first reflected
from E. wood’s windows--before I can
see the sun-- Standing there--I hear
that same stertorous note of a frog
as was heard the 13th ult
or two--ap. from quite across all this
flood--& which I have so often observed
before--what kind is it? It seems
to come from the edge of the meadow
which has been recently left bare-- Apparently
this low sound can be heard very far over
the water-- The robins sing with a will
now--what a burst of melody--! It gurgles
out of all conduits now--they are
choaked with it-- There is such a tide
& rush of song as when a river is
straightened between two rocky walls-- It
seems as if the mornings throat
were not large enough to emit all
this sound. The robin sings most
before 6 o’clock now-- I note where
some suddenly cease their song--making
a quite remarkable vacuum.

As I walk along\textsuperscript{421} the bank of the Assabet
I hear the \textit{yeep yeep yeep yeep}
\textit{yeep yeep} or perhaps \textit{peep} of
a fish hawk--repeated \textit{quite fast}
& whistling
but not so shrill as I think I
\textsuperscript{421}“along” poss altered from “of”
his long curved wings undulating over
Pinxter swamp--now flooded--.

From the hill top I see bare ground appearing in ridges here & there in the "Assabet Meadow--

A grass bird--with a sort of spot on its breast sings here here hé, che che che, chit chit chit, 'chip chip chip chip chip--
The latter part especially fast--
The F juncorum says phe phe phe phe ph ph-p p p p p p-p p faster & faster flies as I advance but is heard distinctly still further off--

A moist misty rain-threatening April day--about noon it does mizzle a little.
The robin sings throughout it. It is rather raw--tooth-achy weather.

Pm round Walden--
%media% The stellaria%^% is abundantly out--

I did not look for it early it was so snowy-- It evidently blossomed as soon after the 2nd of April when I may say the began to go off in earnest--as possible.
The Shepards purse too is well out--

3 or 4 inches high--& may have been some days at least--

Cheney's elm shows stamens on the warm side pretty numerosely.-- Prob that at Lee's Cliff a little earlier

Flowing & planting are now going
on commonly-- As I go down the RR--

I see 2 or 3 teams in the fields. Frost

{%//%} appears to be out of most soil. I see much

a (pine)-warbler^ less yellow than the last

searching about the needles of the p. & white pine. Its note is some what

shorter--a very rapid & continuous

trill or jingle which I remind myself of by--vetter vetter vetter vetter

vet--emphasizing the last syllable. Walden is still covered

with ice--which still darker green

& more like water than before--

A large tract in the middle is of a darker shade & particularly like water.

Mr Emerson told me yesterday that there was a large tract of water in the middle! This ice trembles like a batter for a rod around whe I throw a stone on to it-- One as big as my fist thrown high goes through--

It appears to be 3 or 4 inches thick.

It extends quite to the shore on the N\(^{423}\) side--4 is there met by snow.

The needles of the pines still show where they were pressed down by the great burden of snow last winter--

I see a maple twig eaten off by a rabbit 4 1/4 feet from

\(^{423}\) "N" poss written over "s"
the ground—showing how high the snow
was there—Golden Saxifrage X at
Hubbard's Close—Frogs sit round round
Callitriche pool—where the tin is cast—
We have waste places—pools—and brooks—
&c where to cast tin—iron—slag—crockery
No doubt the Romans & Ninevites had such places
&c—To what a perfect system this world
is reduced—a place for every thing &
everything in its place!

Ap. 17

Was awakened in the night by a thunder
& lightning
^shower & hail storm. the old familiar burst
as if it had been rumbling somewhere else ever since I heard it last & had not lost
the knack.
& rumble" I heard a thousand hail stones
strike & bounce on the roof at once—what a
clattering—yet it did not last long, & the hail
took a breathing space once or twice.

I did not know at first but we should
lose our windows the blinds being away at the
These sounds lulled me into a deeper slumber than before.
painters." Hail storms are milked out of
the first summer like warmth—they belong
to lingering cool veins in the air which thus
burst & come down—The thunder too "424 sounds
like the final (rending) & breaking up. of winter
thus precipitous is its edge—The first one
is a skirmish between the cool rear guard
of winter & the warm & earnest van-guard
of summer. Winter Advancing summer
strikes on the edge of winter which does not
drift fast enough away—and fire is elicited.
Electricity is engendered by the early heats.

I love to hear the voice of the first thunder--as of the toad--(though it returns irregularly like pigeons.) far away in his moist meadow--where he is warmed to life--& see the flash of his eye--

Hear a chip bird--high on an elm this morning--& prob. that was one I heard on the 15th ult-- You would not be apt to distinguish the note of the earliest

I still see quite a snow bank from my window on the hill side at the N. E. end of Clam shell--Say a NE--exposure-- This is on the surface--but the snow lies there in still greater quantity--in two hollows where sand has been dug though for the meadow--on the hill side sloping to the SE--where it is quite below the general surface---- We have had scarcely any rain this spring & the snow has been melting very gradually in the sun.

P. m. Start for Conantum--in boat I can hide my oars & sail up there & come back another day. wind SW-- A moist muggy after noon rain threatening-- True april weather--after a particularly warm & pleasant forenoon-- The meadows are still well covered & I cut off the bends-- The red-wing goes over with his che-e-e che-e-e chatter chatter chatter-- On Hubbards great meadow I hear the sound of some fowl perhaps a loon rushing

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425 "it" altered from "is"
424 stray mark in margin
through the water—Over by Dennis Hill & push for it—Mean while it grows more & more rain threatening—All the air moist & muggy—a great ill defined cloud darken—ing all the west—but I push on till I feel the first drops knowing that the wind will take me back again—Now I hear ducks rise & know by their hoarse quacking that they are black one—see 2 going off as if with one mind along the edge of the wood—Now comes the rain with a rush—In haste I put my boat about raise my sail & cowering und my umbrella in the stern with the steering oar in my hand—begin to move home—ward—The rain soon fulls up my sail & it catches little From under the umbrella I look out on the scene all the wind. The big drops pepper the watery plain—the aequor on every side— it is not a hard dry pattering as on a roof—but a softer liquid pattering—which makes the impression of a double wateriness—You do not observe the drops decending—but where they strike—for there they indent the surface deeply like buck shot—4 they or other drops which they {creat}—rebound or hop up an inch or two & these last you see—also when they fall back broken into small shot & roll on the surface—Around each shot mark are countless circling dimples runing into & breaking one another—
& very often a bubble is formed by the
force of the shot which floats entire
for half a minute—These big shot
are battering the surface every three inches
or thicker—I make haste to take down
my sail at the bridges—but at the
stone arches—forgot my umbrella—which
was unavoidably crushed in part—Even
in the midst of this rain I am struck
by the variegated surface of the water—
different portions reflecting the light
differently—giving what is called a watered
appearance—broad streams of light
water stretch away—between streams of
as if they were different kinds of water unwilling to mingle
dark—though all are equally dimpled
by the rain—& you detect no difference
in their condition—As if Nature loved
variety for its own sake—It is a
true April shower—or rain—I think the
first. It rains so easy—has a genius for it
—and infinite capacity for—many showers
will not exhaust the moisture of April.
When I get home & look out the window
I am surprised to see how it has greened the grass—it springs up erect like a green
flame in the ditches on each side
the road—where we had not noticed it
before. Grass is born—There is a
quite distinct tinge of green on the
hill side seen from my window now.
I did not look for the very first.

431 "These" altered from "This"
432 v. pencil line through "greened"
433 v. pencil line through "tinge"
I learn from the papers that an unusual number of fruit trees have been girdled by the mice under the deep snow of the past winter--immense damage has been done to nurseries & orchards--I saw where a prostrate maple in the Great meadows had been gnawed nearly bare.

Our river was generally breaking up on the 3d of April--though some parts were frozen till the 12th.

I see by the papers--That the ice had left Lake St. Peter (St Lawrence) the 12th ult--another paper (of the 11th) has heard that the St. Lawrence was open from Quebec to Three Rivers--or before the Hudson The ice on Lake Champlain was broken up on the 12th.

The ice moved down Fair Haven Pond was quite open the 13th. The ice moved down the Penobscot & the river opened the 15th.

Lake Ontario was free of ice the 16th.

The Kenebeck is expected to open this week today is Thursday--

There is still ice in Walden (opens 18th)

Pm--to Lee's Cliff by boat.

A strong N. W. wind--the waves were highest off Hubbard's 2nd Grove--where they had acquired their greatest impetus & felt the full force of the wind--

Their accumulated volume was less.
beyond on ac. of the turn in the river

The greatest undulation is at the
lee-ward end of the longest broad reach
in the direction of the wind. I was steering
there diagonally across the black billows
my boat inclined so as almost to drink
water. Scare up the same 2 black-
ducks--(& twice again) The436 under
sides of their wings show quite light &
silvery as they rise in the light.

Red maple stamens in some places pro-
ject considerably--& it will prob. blossom
to-morrow if it is pleasant. %V 23 prox--%
The farmer neglects his team to watch my
with its round rusty wooly buds & pale brown ashy
sail. The slippery elm X That pretty
-- -- -- -- --twigs
now brown stemmed moss with green oval
fruit-- Common Saxifrage & also early
sedge--I am surprised to find abundantly
out--both--considering their backwardness
Ap. 2d Both must have been out some
ie 4 or 5 days half way down the face
of the ledge-- Crowfoot ap. 2 or 3 days--
Antennaria at end of cliff as you descend--
say yesterday X Turritis Stricta X
Columbine XXX & already eaten by bees--
some with a hole in the side. It is worth
the while to go there to smell the catnep.
I always bring some home for the
cat at this season.

// See there437 great chocolate puff-balls

434 "T" written over "t"
437 "there" possibly "those"
burst & diffusing their dust--on the side of the
hill-- At the sandy place where I moored
my boat just this side this Cliff\textsuperscript{438} the selagi-
½ on Conantum shore near
nella apus is abundant-- elms 30 or 40 rods below%
left boat--op. Bittern Cliff.
Bear berry grows by path from river of 7 rods
beyon last pine S side--now strongly flower budded.

Observed a large mass of White lily root
wooly
with the mud washed up--the" steel blue
root--with singular knobs for off shoots
(drawing) & long large succulent white roots
from all sides the leaf buds yellow
& lightly rolled up on each side--

Small sallow next above tristis 3 feet high
in path to Walden\textsuperscript{439} X

Walden is open entirely to-day for first
--owing the the rain of yesterday & eve
time." I have observed its breaking up
of different years commencing in '45--&
the av. date has been Ap. 4th
This evening I hear the snipes generally & peeping of hylas from the door.
A small brown wasp's (?) nest (last years of
course) hung to a barberry bush on edge of Lee's
Cliff.

Ap. 19th 56

Was awakened in the night to a strain
of music dying away--passing travellers
singing-- My being was so expanded & in-
finitely & divinely related for a brief
season--that I saw how unexhausted

\textsuperscript{438} "this Cliff" altered from "the Cliff"
\textsuperscript{439} "Walden" altered from "walden"
how almost wholly unimproved was
man's capacity for a divine life.

When I remembered what a narrow & finite
life I should anon awake to!

Thoughith respect to our channels, our
valleys & the country we are fitted to drain
we are Amazons, we ordinarily live with
dry channels.

The Arbor-vitae by river side behind Mon-
roes--appears to be just now fairly in blossom.

I notice acorns sprouted. My birch
wine now after a week or more has been
pretty clear & colorless again the brown
part having settled & now coating the
glass.

Helped Mr Emerson set out in Sleepy
Holly 2 over-cup Oaks--1 beech & 2 Arbor-

As dryness will open the pitch pine cone--so
moisture closes it up again-- I put one
which had been open all winter into water
and in an hour or 2 it shut up nearly as
tight as at first.

Ap. 20 '56

Rain, Rain, rain--a N. E. storm

I see that it is raising the river some-
what again. some little islets which
had appeared on the meadow N. W of
Dodd's are now fast being submerged again.

"Amazons" altered from "amazons"
"beech" altered from "beach"
"vitae--" altered from "vitae--"
"an" altered from "the"
v. pencil line through final "rain"
Columella book 1 p 163 (p 15 of the Eng. Trans 1745) says--I quote
the trans--"there is a great multitude of
Greeks, who lay down rules & precepts for
husbandry; of whom the chief, that
most celebrated Poet Hesiod the Boetian [note
of trans says 'Pliny says his book of Husbandry 445 was lost in
his time, & that he was the first who gave precepts upon
that subject?'] has contributed not a little to our
profession. Afterwards, Democritus the Abderite,
Xenophon a follower of Socrates, Architas
the Tarentinian, and these 2 Peripatetics 446, the
master and the scholar, Aristotle & Theophrastus, who all sprung from the foun-
tains of wisdom, gave further assistance
to it."

"The Sicilians also have prosecuted this busi-
ness with no ordinary care, Hieron, and
Epicharmus his scholar, [note says 'he wrote
carefully of medicines proper for cattle' ac to Columella]
Philometor, and Attalus. [note--'Varro . . . seems to
say that Philometor was only the surname of
Attalus'--] Athens also has produced a great
number of writers, of which the most
approved authors are Cháereas, Aristandros,
Amphilachus, Euphron; Chrestus the son of
Euphron, not as many think the Amphipol-
titan, who himself is also esteemed an excellent
husbandman, but he who was a native

445 “Husbandry” altered from “husbandry”
446 “Peripatetics” altered from “peripatetics”
of Attica."

"The Islands also greatly cultivated this study, and had it in great estimation; as witness Epigenes of Rhodes, Agathocles of Scio, Euagon and Anaxipolis of Thasus. Menander & Diodorus, also, who were of the same country with Bias, one of the seven wise men, laid claim among the first, to the knowledge of Agriculture. Nor did Bacchius and Mnasseas of Milesium, Antigonus of Cyme, Apollonius of Pergamus, Dion of Colophon, Hecatas of Marogna, [note--referred to by Vitruvius 'as having, with infinite study & care, explained the properties of places, and the virtues of waters?] yield to these. For, indeed, Diophanes the Bithynian, abridged & reduced into six books the entire works of Dionysius of Utica, who, in many volumes, had, in a very diffuse manner, interpreted Mago the Carthaginian; and other, notwithstanding more obscure authors, whose countries we have not been informed of, have contributed something to our study. They are those following: Androtion, Aeschirion, Aristomenes, Athenagoras, Crates, Dadis.

447 "Mago" altered from "Mago"; underlining cancelled
448 T reforms illegible "n" above
Dy
ionysius, Euphyton, Euphorion. [varro says
of these last that most of their writings were lost
in his time] Nor with less fidelity have Lysima
chus, & Cleobulus, Menestranus, Pleutiphanes,
Perses, Theophilus, to the utmost of their
power, brought in tribute to us."

"And that we may now at length bestow
the freedom of the city of Rome upon Husbandry,
(for as yet, by these authors, she was only of
the Greek nation) let us now make men-
tion of the famous Marcus Cato the Censor,
[ac. to Pliny the best husbandman of his age]
who taught her first to speak Latin; after
him, of the 2 Sasersanas, the father & son, ['Pliny,
says, that they were the most antient, and the most
celebrated husbandmen after Cato'] who instructed
her more carefully; and, next, of Scrofa Tre-
mellius ['contemporary with Varro'] who made it
eloquent; and of Marcus Terentino, [Varro--
'Beside his books de re rustica, & de lingua Latina,
which, though incorrect, are still extant,'--wrote
many more which are lost.] who exactly polished
& perfected her; and afterwards, of Virgil,
who made her also mighty & powerful in
verse. Nor, lastly, let us think it below us,
to make mention of Hyginus, who was, as it
were, a pedagogue to her. Nevertheless, above
all, let us pay the greatest veneration &
respect to Mago the Carthaginian, the
father of Husbandry. ['wrote 28 books on this subject in the Carthaginian language'] For those 28 memorable volumes of his were, by a decree of the Senate, translated into the Latin tongue. Nevertheless, men of our own times, Cornelius Celsus, & Julius Atticus, have deserved no less commendation. For Cornelius comprised the whole body of this art in five books, and Julius Atticus published one single book, of one species of culture relating to vines; whose disciple, as it were, Julius Graecinus, took care that 2 volumes of the like precepts concerning vineyards, which he had composed in a more facetious & learned style, should be transmitted to posterity."

Here are 55 writers on Husbandry named. "But if fortune shall have favored our wishes, we shall have land (agrum) under a salubrious sky, (salubri caelo) with a rich soil, partly champaign, partly hills (collibus) gently sloping to the east or south, with some parts (terrenis) cultivated, & others woody & rough, nor far from the sea or a navigable river, by which the fruits can be exported & commodities (merces) imported. Let the champaign, divided or grass ground into mowing & arable (prata et arva) & willow & reed groves, lie below the house. Let some hills be bare of trees that they may serve for corn alone (segetibus--or grain crops) which yet thrives better on moderately dry & rich (pinguibus campis) plains than on steep

450 "alone" altered from "("
places-- Therefore even the higher corn-lands
ought to have some level places, and to be as
gently sloping as possible, & very similar to a
champaign position. Then let other hills
be clothed with olive-yards, and vineyards451
and their future props (--pedamentis); and be
able to afford wood (materiam) & stone, if
necessity obliges you to build; nor less pasture (pascua)
for cattle. Then let living waters springing forth
(salientes) send down rivulets flowing down
(decurrentes) to the grass ground (prata) &
gardens & willow groves; nor let there be wanting
herds & flocks of cattle & the other quadrupeds
feeding on the cultivated ground and the thickets."

Columella says that Cato said
that in buying a farm 2 things were chiefly
to be considered "the salubrity of the air, and
the fertility of the soil".---after these "the road,
the water, & the neighborhood".--- --- "To the
other precepts we add this, which one of the
7 wise men delivered to posterity for ever,
\[\mu\eta\tau\rho\omicron\ \alpha\rho\omicron\sigma\omicron\nu\], measure is best.--- --- ---
--- -- ---" and he quotes Virgil's Laudato ingentia
rura, Exiguum colito-- -- -- & also says that
"it is worthy of that most acute people the
Cathaginians to have said that 'The land (agrum)
ought to be weaker than the husbandman';
wrestle
since when he must strive with it, if the farm
prevail the owner"452 must be crushed." (Quoniam

---

451 vineyards: altered from "vineyards,"; ",," cancelled
452 "owner" cancelled in pencil
cum sit colluctandum cum es, si fundus prae-valeat, alidi dominum.)

Ap. 22nd '56

// It has rained 2 days & nights--& now

the sun breaks out--but the wind

is still Easterly--& the storm probably

is not over-- In a few minutes the air

is full of mizzling rain again--

8 Am-- Go to my boat op. Bittern Cliff

// Monroe's larches by river will ap shed pollen

soon-- The staminate flowers look forward--

but the pistillate scarcely show any red--

// There is snow still (of the winter) in the hollows

where sand has been dug on the hill side E

of Clam shell-- Going through Hubbard's

root-fence field--see a pigeon woodpecker

on a fence post--he shows his lighter back

between his wings cassock-like & like the

smaller wood peckers--joins his mate on

a tree & utters the wooing note o-week

o-week &c--

The seringo also sits on a post--with

a very distinct yellow line over the eye--

rhythm & the [_______] of its strain is Ker chick /

Ker che / Ker-char-r-r-r / chick--

the last 2 bars being the part chiefly

heard. The huckleberry buds are

much swolen-- I see the tracks of

some animal which has passed

453 "probably" altered from "is"
454 "over" altered from "of"
455 v. pencil line through word
over Potter's sand— they are quite distinct—
the ground being smoothed and softened by rain.
The tracks of all animals are much more
distinct at such a time. By the path &
in the sandy field beyond are many of those
star-fingered puffballs— I think they must be
those which are so white like pigeon's eggs
leathery
in the fall— the thick" rind bursting into &
like those of a boys batting-ball
to 11 segments" & curving back— They are
very pretty & remarkable now sprinkled over
the sand— perhaps more smooth & plump
on ac. of the rain. (I find some beyond at mt
sumack knoll— smaller with a very & thin
rind & more turned back— a diff species plainly.)
The inside of the rind, which is uppermost, ap-
proaches a chocolate color— the puff ball is
rough
a" dirty or brownish white— the dust which does not
not fly now at any rate is chocolate colored.
Seeing these thus open I should know there had been wet weather— V 2 ps forward
The mt. sumack berries have no redness
now— though the smooth sumac berries have—
Its twigs are pecu"larly slender & so have
a small pith— its heartwood is not yellow,
like the smooth & the dogwood, but green.
Its bark is more gray than that of the smooth—
Its bark
which last when wet is slightly reddish.
sap or juice is not yellow like that of the smooth— & is slower to harden.
Some Hellebore leaves are opened in the Cliff
//
brook swamp My boat is half full of
water— There are myriads of snow fleas on the
water now amid the bushes— ap. washed out of

454 v. pencil line through "berries"
456 "the" inserted
457 v. pencil line through "are"
458 "fleas" altered from "flea"
the bark by the rain & rise of river--
I push up stream to Lee's Cliff--behind Good-
win who is after musquash-- Many suckers
& one perch have washed up on the Conantum
shore the wind being SEasterly-- I do not de-
(It would be worth while to see how long before this happens--)
tect any wound-- Their eyes are white & they
appear to have been dead some time--Their fins
& they are slimy
are worn-- I cut open a sucker & it looked
rather yellow within-- I also see some-
times their bladders washed up. They float
on their backs. When cut open they sink--
double
but the bladder is uppermost &
protruded as far as possible. Saw
some pieces of a sucker recently dropped by
some bird or beast 8 or 10 rods from the
shore-- Much root & leaf bud washed
Very perfect & handsome clams shells recently opened--by the musquash--ie
up-- A gull-- I buy a male musk-
during the storm--lie on the meadow & the hill side just above
rat of Goodwin just killed-- He some-
water-mark-- They are especially handsome because wet by the
times baits his mink traps with muskrat--
rain.
always with some animal food-- The musquash
does not eat this--though he sometimes treads
on the trap & is caught-- It rains hard
& steadily again & I sail before it. Now
I see many more ducks than in all
// that fair weather--shell drakes &c
A marsh-hawk in the midst of the rain
is skimming along the shore of the meadow
close to the ground--& though not more
than 30 rods off I repeatedly lose sight

460 "is" altered from "or"
of it—it is so nearly the color of the hill side
beyond-- It is looking for frogs.
The small slate colored hawk which I have
called pigeonhawk-- darts away from a
bushy island in the meadow.
The muskrat which I bought for 12 cents--
weighs 3 lbs 6 oz. Goodwin thought that
some would weigh 1/2 to 3/4 of a lb. more
I think a lb more
than this. Thought this was a young one of
judged by the tail--
last year-- & that they hardly come to their growth
in one year-- Extreme length 23 inches--length
of bare tail nine inches-- breadth of tail 7/8
of an inch-- breadth of body &c as it lies 6 1/2
An oval body-- dark brown above (black in
some lights the coarse wind hairs aft) reddish
Thus far the color of the hair-- the fur within slate color
brown beneath-- tail black-- feet a delicate
GLOSSY dark slate? with white nails-- The hind feet
half webbed-- & their sides & toes fringed thickly
with stiff hair ap-- to catch water-- ears
partly concealed
(apparently (for the head is wet & bruised)
in the fur-- short & round-- long black mus-
tachial bristles-- Forelegs quite short more
like hands, hind ones about 3 inches without
the line of the body's fur & hair-- Tail on the
skin is a little curved downwards.
The star-fungi-- as they dried in my cham-
ber in the coarse of 2 or 3 hours-- drew
in the fingers-- the different segments curled
back tightly upon the central puff-- The
points being strongly curled downward in to the middle--dimple-wise. It requires wet weather then to expand & display them to advantage-- They are hygrometers--

Their coat seems to be composed of 2 thicknesses-- of different material & quality-- & I should guess that the inside chocolate colored had a great affinity for moister & being saturated with it swelled & so necessarily burst off & turned back-- & per chance the outside dirty white or pale grown one expands with dryness--

A single male shell-drake rose from amid the alders against Holden swamp woods as I was sailing down in the rain with outstretched neck-- & flew at right angles across my course only 4 or 5 rods from me-- & a foot or 2 above the water--finally circling round into my rear--

Soon after I turned about in Fair Haven Pond--it began to rain hard-- The wind was but little S of E-- & there fore not very favorable for my voyage. I raised my sail-- & cowering under my umbrealla in the stern--wearing the umbrella like a cap & holding the handle between my knees I steered & paddled--almost perfectly sheltered from the heavy rain-- Yet my legs & arms were a little
exposed sometimes in my endeavors to
keep well to windward so as to double
certain capes ahead—For the wind oc-
casionally drove me on to the western shore
From time to time from under my umbrella
I could see the ducks spinning away before
me like great bees—For when they are
you flying low directly from you, see hardly any-
thing but their vanishing dark bodies—while
the rapidly moving wings of paddles seen
edgewise are almost invisible. At length,
when the river turned more easterly—I was
obliged to take down my sail—& paddle
slowly in the face of the rain, for the most
part not seeing my course with the brella
slanted before me—But though my pro-
gress was slow & laborious—& at length
I began to get a little wet—I enjoyed the
adventure—because it combined to some
extent the advantage of being at home
in my chamber & abroad in the storm
at the same time.

It is highly important to invent a dress which
will enable us to be abroad with impunity
in the severest storms—We cannot be
fully said to have“ invented clothing yet.
In the meanwhile the rain water collects in
the boat & you must sit with you feet
curled up on a paddle—& you expose your—
self in taking down your mast & raising

it again at the bridges. These rain

storms--(this is the 3d day of one) charac-

terize the season--& belong rather to winter

than to summer-- Flowers delay their blossoming

--birds tarry in their migrations &c &c--

It is surprising how so many tender organizations

of flowers & insects survive them uninjured.

The muskrat must do its swimming chiefly

with its hind feet-- They are similar in form & position

to those of the sheldrake-- Its broad oval467 &

flattish body too must help keep it up--

Those star-puff-balls which had closed up

in my chamber put into water opened again

in a few hours.

What is that little bodkin shaped bulb which

I found washed up on the edge of the meadow

%Ludwigia palustris%

{drawing} White with a few small greenish
%a fac simile.%

rounded leafets?

On the 19th ult when setting out one of those

over-cup oaks in sleepy Hollow--digging

at the decayed stump of an apple tree we disturbed--

dug up--a toad which prob. had buried itself

there last fall & had not yet come out.

Columella--De positione villae--p 172
tells us--that that the villa was

divided in to 3 parts the urban--
rustic--& fructuary (fructuaria)--

the first for the 1st for the Pater-

familiae & his family--2nd rustic for

%This whole chapter is important--De positione &c%
the laborers hired & free slaves & for the
cattle &c—the 3d for the barns cellars &c
for fruits—of all kinds—hay—wine & oil presses
& ellans &c—The bailiff (or villicus) was to have
his habitation close by the gate of the villa,
that he might have a view of those going in
& coming-out, & the Procurator (steward?)
says Trans) over the gate for the same purpose.

Says it is important that the dung
hills be kept moist & strong enough to kill
the seeds of thorns & grasses conveyed to it in
litter & chaff—nec in agrum exportata (i.e.
semen) segetes herbidas reddant.—nor carried
in to the field produce weedy crops.

"For a herdsman (bubulco) a
natural aptitude of mind (indoles mentis)
though necessary is not enough," unless a
great volume of voice (vastitas vocis) and
constitution (habitus) make him to be feared
by the cattle. But let clemency temper his strength;
for he ought to be more terrible than cruel,
so that the cattle may both obey his com-
mands—, & not worn out by the vexation
of labor & blows at the same time, last
longer (diutius perennem)."

Advises to make the tallest slaves plough-
men—both for the above reasons & because
the tall are not so little fatigued by any
labor, not having to stoop to it— -- -- --
"Vineyards demand not so much tall, as

"enough," altered from "enough—"
broad & brawny? (lacertosos) men," army, or perhaps
with long & strong arms.

Columella thus describes well enough
the condition of much of our exhausted Con-
cord soil--especially--old rye-fields--which
have been cultivated many years in succession
They are not weary with labor--but
without manure-- exhausted for want of nourishment.

At cum pertuptae rastris et aratris radices

herbarum, ferroque succisa nemora frondibus
suis desierunt alere matrem, quaeque tem-
poribus autumni frutetis et arboribus delapsa
folia superjaciebantur, mox conversa vomeribus,
et inferiori solo, quod plerunque est exilium,
permista, atque absumpa sunt, sequitur,

ut destituta pristinis alimentis macrescat
humus."

But when the roots of plants being broken
through with rakes (or hoes?) & ploughs,
and the forests cut down with the axe469 have
ceased to nourish their mother with their leaves,
and whatever leaves falling from the shrubs
& trees in autumn were cast upon her were
presently turned in with plow-shares, and
mixed with the (loam) sub-soil, which
for the most part is the leaner, and
were (common) wasted, it follows that the
soil earth destitute of its pristine nourishment,
grows lean.2

"Those most skilled in rustic affairs say that
there are 3 kinds of land (or soil?)470 terreni):
Campestre, collinum, montanum-- Champaign,
hilly, & mountainous."
Speaking of clearing wild land p 184

Incultum igitur locum consideremus, siccus an humidus; nemorosus arboribus, an lapidibus confragosus; juncone sit, an gramine vestitus, ac filictis allis- ve frutetis impeditus; si= humidus erit, abundantia uliginis ante sicetur fossis. Earum duo genera
cognovimus, caecarum et patentium;--"

Let us therefore consider an uncultivated place,
whether it is dry or moist; woody with trees,
or rugged with stones; clothed with rushes or with grass, and encumbered with fern groves or shrubbery other nurseries. If it is moist let the abun-
danced moisture be first dried up by ditches.

We have known 2 kinds of these, blind & open;--" This reminds me of many a wild Concord pasture--& so of the following

At saxosum facile est expidire lec-
tione padidum, quorum si magna est abun-
dantia, velut quibusdum substructionibus partes agris sunt occupandae, ut reliquae emunden-
tur; vel in altitudinem sulco depresso lapides obruendi. But it is easy to clear stony ground by picking up the stones. if there is a great abundance of them parts of the field are to be occupied as it were by certain piles built up, that the rest may be clear; or the stones are to be buried in a

But this (ap-- both) is to furrow sunk very deep.” be done only when labor is very cheap--si suadebit operarum vilitas--

When stones & gravel are wanting
a blind ditch is to be filled with "a rope
of sprays tied together" (Trans) and cypress
or pine boughs or others trodden upon it"\textsuperscript{471}--
& then covered with earth. %\textit{(Sarmentis connexus velut
funis informabitur)}\% Ap 23d '56
To--White Cedars.
\textsuperscript{Pm} up Assabet--The river risen
// again on ac. of the rain of the last 3
days to nearly as high as on the 11th ult--
I can \textit{just get} over Hosmer's meadow--
// The red maple did not shed pollen on the
19th & could not on the 20th--21st--or 22nd on
ac. of rain so this must be the first
day--the 23dX--though I see none quite so
forward by the river--The wind is now
westerly--& pretty strong--No sap to be
// seen in the bass--The White birch sap flows
yet from a stump cut last fall--& a few
small bees--flies &c are attracted by it.
Along the shore by Dove Rock I hear
like a fox-col-sparrow--
a faint \textit{tseep}^ & looking sharp detect
// upon a maple a White-throated sparrow.
I soon flies to the ground amid the birches
2 or 3 rods distant--a\textsuperscript{472} plump looking
bright
bird & with its^ white & yellow marks on
the head--distinctly separated from the
slate-color--methinks the most brilliant
of the sparrows--Those bright colors how-
ever are not commonly observed--
The white cedar swamp consists of
hummocks--now surrounded by water--
V. n 21

\textsuperscript{471} it: altered from "at"
\textsuperscript{472} a: altered from "s"
notice bird's nests

Stop
Adoreum (from ador) relating to spelt
Faba—more properly perhaps our hog’s bean or horse-bean
Phaselus A kind of bean with an edible pod
    French beans, Kidney beans, phasel;—
Cicer The Chick-pea
Cicera pulse similar to the chickpea, chick-
ing vetch
Panicum Italian panic grass
Ptisana Barley (washed) & cleaned from the hulls, barley sprouts, pearl-barley, (also) a drink made from barley groats, barley-water, ptisana.
Medica An excellent kind of clover introduced from Media, Burgundy clover, lucern
Ervum A kind of pulse, the bitter vetch
Farrago Mixed fodder for cattle, mash.
Far, a sort of grain, spelt, Gr. (خلاف), Triticum spelta L. The earliest food of the Ro-
mans, both roasted & ground into meal.
Avena oats 2 kinds common & wild
    V. Smiths’ Class. Dict.
I find a jugerum to be about 99 rods%
%Observe snail furrows in brooks in winter
if there are any V March 20
Note of grackles & how early
Bay-wing how early--
When turpentine of wht pine bark beg to flow--before Ap. 10
Is that an A. serrulata at Brister’s spring? no?
Observe if latent leaves of S. borealis are often reduced to {bracts} & compare with S. longifolia
Is that a V. fuscatum with string 1 rod E of {bend} at Clam Shell has reddish young leaves Yes
Is that P. Erythrocarpum with string 2 feet W of swamp & (1 yd) W so N of entrance to Hub swamp?
V Chewing nest of June 1st***
*V Choke berry by E Walden sand & N end Emerson Cliff ( )
both [one block away] 23d (of June 5
V. Chiehdee nest of June 3d & Cuckee & Thrushes
V. King bird nest by stone heap
Yellow browed sparrow [Nut Oak] meadow
V. chewink nest Linnea [bot of rd] N of path N of pine
June 10 bet 2 [broken] top young white oak
V. Paint. turtle eggs 1 rod + S marlboro ( )
(of June 10) about 2 feet from edge of sand
V. small pewee? nest of June 12 Conantum
Get a Downy peppers nest
Asclepias pods up RR 2 kinds--of July 5th%