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1880

White Pine Groves

Present-Day Trees and the Giants of Eld
—Were They Another Variety?—

BY WINTHROP PACKARD

A TINY brown wing brushed my cheek this morning, stirring madly by mistake the wings of the November gale. It was a belated one of many that have scattered from the pine tops this autumn, for it was the single wing of a white pine seed and the cone harvest has been good. Ever since August the squirrels have known this and the stripped spindles lie by the score under the big pasture pines where these have left them after eating the seeds. It seems much work for small pay for the squirrel. He must climb venturesomely to the very tip of the slipper, then descend the squirrels to the ground, then run down the tree and gnaw it to pieces for the tiny seeds within. So light are these seeds, wing and all, that it takes twenty to thirty thousand of them to weigh a pound and it is probably fortunate that squirrels do not live by pine nuts, for they would have the gnawing means as much to the squirrel as the eating, for the squirrel's teeth grow constantly and he must continually wear them off or he dies, stabbed by his own incisors which grow in the arc of a circle. Yet the squirrel is adept at getting at the tiny, toothsome seed and he can strip a cone of its scales far faster than I can, even if I use my knife. He holds the cone stem end upward in his fore paws which are so like hands, severs the base of the scale with his ivory shears and has the seed in his mouth that clicks close under the very bottom of the scale, almost before you can see him do it.

Certain wise naturalists assure us that the squirrel does not use reason in this handling of the cone, merely acting automatically. Yet, if I accept what he gets his results in the shortest time and with the least effort. "No highest reasoning could teach him no more and his instinct is such a splendid short cut to the solution of problems it is a pity that it is not added to our common school course. The squirrel, they say, does it because he and his ancestors have done it in the same way for untold generations, the automatic impulse being born in him and bound to appear at the right moment, just as his teeth grow without his own volition. Yet, if I accept what he does a time when the first squirrel came up on a limb with his first pine cone in his paws. Did he reason out the way to get those seeds or did he know instinctively? And if so what is instinct in his case?

For all the squirrels got so many cones that in some places in the woods the ground is fairly carpeted with the brown scales which they severed, prompted by this clever whatever-it-is that is such an excellent substitute for wisdom, there are plenty still left on the trees where they hang from the branches, their scales galling and the seeds for the most part gone. Left to themselves they have been flying away ever since September, a few at a time on dry, windy days when their single wings would send them far and fast. One might imagine that whatever it is to the pine tree too, she works so methodically for the preservation of her species. A year ago last spring the mother pine put forth the beginnings of those pine cones that now dangle brown and sticky from the tree to the ground, useless except as kindling for my campfire. Then they were wo golden-green buds of pistillate flowers, set high on the uppermost branch tips that the pollen from the tree's own staminate blooms might miss them by its flight down the wind and thus avoid infertile offspring. If they miss fertilization altogether they fall off. It is commonly said that the pines produce a crop of cones once in five or seven years, which is true in part, but as the statement that every seventh year is larger than any of its preceding six is occasionally borne out by the facts, I do not recall years in which the pines have failed to put forth both staminate and pistillate blossoms. Sometimes frost gets the mother pine to reproduce. Sometimes a long rain will prevent the pollen from being disseminated by the wind until its time is passed and again there is a failure in cones. Only once in a while is the season perfectly favorable, and then we get that rain to wash in the cones and the squirrels rejoice that they can fill their teeth and fill their cheek pouches at the same time. The years when there are no cones at all sending forth their seeds in September are few indeed. This year the harvest in my neighborhood has been an excellent one.

The fertilized bloom soon ceases to be a little Christmas candle on the tree top, closes its tiny scales over its growing seeds and becomes a little green cone, still sitting upright on the upper branch tip where it grew. It grows to a half inch and a half long, the short pedicel which attaches it to the branch has lengthened and thickened, but is not able to hold it wholly erect, so much has it gained in weight. At that season the young cone and its fellows have tiny, horizontal or even become slightly pendulous. Thus it remains through the winter, its scales pressed close to its core and to one another, defending the tender seeds from all cold and making a seemingly solid trunk of the whole. Toward spring I have known squirrels to attack these

young cones, but rarely, and I am not sure whether it was because of the pressure of hunger or whether some young squirrel's instinct to sharpen his teeth on them made him a bit precocious. These cones begin to begin sprouting again very early in the spring. You will have its way, and in this case it seems to seize on the first sap that gets as far as the topmost branch tips, compelling it to the nourishing of the young leaves or even of the cross making of minute and pistillate blossoms for the ensuing summer. The cones add a quarter of an inch to their length before the blossoms of that year appear, and their weight seizes them still more on the stem, making them distinctly pendulous. By the last of August these greedy feeders have not only ripened the seeds within the still close-pressed scales, but have multiplied their own length by four, four to six inches long and hanging pretty nearly straight down by their weight.

Their work is done then. Fifty or more scales has each cone, a hundred or more seeds, if the fertilization has been perfect, are ripe and ready to go out before the end of the year. In the early September the sap begins to recede from these ripe cones, the scales lose their green plumpness and begin to dry and curl back toward the base of the cone. This gives the seed eating birds, the ticks, the pine grosbeaks and especially the crossbills, the opportunity and they eagerly stick out their seeds as the narrow openings will give them a chance at. Between these and the squirrels the pine forests of the north are depopulated before their seeds have been planted. Nature provides bountifully for the reproduction of all her favorites, yet far more bountifully in some instances than in others. A thousand young birches spring from a seed, to one pine in a Massachusetts woods, and no wonder. Each birch tree ripens a thousand seeds to one that comes to maturity in the great cones of the pine. Yet there are compensations for the pine tree. Barring axes and accidents it may live one hundred years and yearly give more and more comfort and pleasure to mankind as it increases in dignity and beauty. The birch may give comfort and inspiration too through its grace and beauty, but it is lucky if it lasts out a hundred years.

It is often a surprise to me to see how far a seed will fly with but one wing. The air currents set it spinning the moment it leaves its parent tree making of it at once a tiny gyroscope with a single blade steady and the wind as a propeller. Its gyroscopic quality steadies it and the wind as a propeller tends always to lift its weight. It is pushed with a downward current it falls with a less velocity than the wind which whips it. In a level breeze it often holds its own, while in the upward slanting wind it is blown high, low so often along and away from the earth as it rises easily. The stronger the wind the more the faster whirl of that tiny propeller tends to keep it in air and with a good September gale thrashing seed out of its cones a pine tree may be plucking its seeds as it leaves them. The seed that brushed my cheek this morning made no such flying. Caught in a back eddy it whirled round a sunny glade for a moment, then in a sudden fall spun directly downward to the grass. There it lay, still in a favored spot. The first grass spear stopped its spinning and it divided plummet-like out of sight. The tiny propeller becoming a tail that kept it head downward, while it alighted most calmly on the grass. There I found it all in such a position that if movement, every pressure would carry it down out of sight of all seed eating creatures where it might rest and ripen till spring when it would be ready to germinate.

Reaching the pine grove and the like of it, I found a goodly number of scrubby country that outlives it, found all stages of pine growth, from the gnarled patriarch four feet in diameter at the butt to the germinating seedling. The patriarch is nearly a hundred feet tall, I know not the exact measure of his height, I have found some of quite his diameter, and I am very sure none of his age, herabouts. His age I can not guess, yet I know that fifty years are he was as large as he is now. Indeed, he had more wood in him, for his lower limbs that were green and flourishing and six to eight inches in diameter have since decayed and fallen away. Recently a pine was felled in Pennsylvania which was 755 feet tall and 42 inches through at the base, and it stood on its ground. This tree was 351 years old. I have reason to believe my patriarch is as old as that one. His height is not so great, but he has three trunks instead of one, springing from that gnarled butt at a number of feet above the ground. There are occasional trees like this one still standing in eastern Massachusetts. They have seen their children and grandchildren grow to marketable size and fall before the woodchopper's axe. They have been one or two generations of hardwood growth between the cutting, yet they still are allowed to remain. In cutting off wood it used to be the custom of our forefathers to leave here and there a particularly gnarled and difficult pine that the seed might furnish a few of the occasional generations. Hence these occasional trees. I was wrong, but I have an idea that my patriarch was growing right where he stands, a young and vigorous sapling, when quaint old Josselyn wrote in those two voyages to New England in

the early years of the seventeenth century.

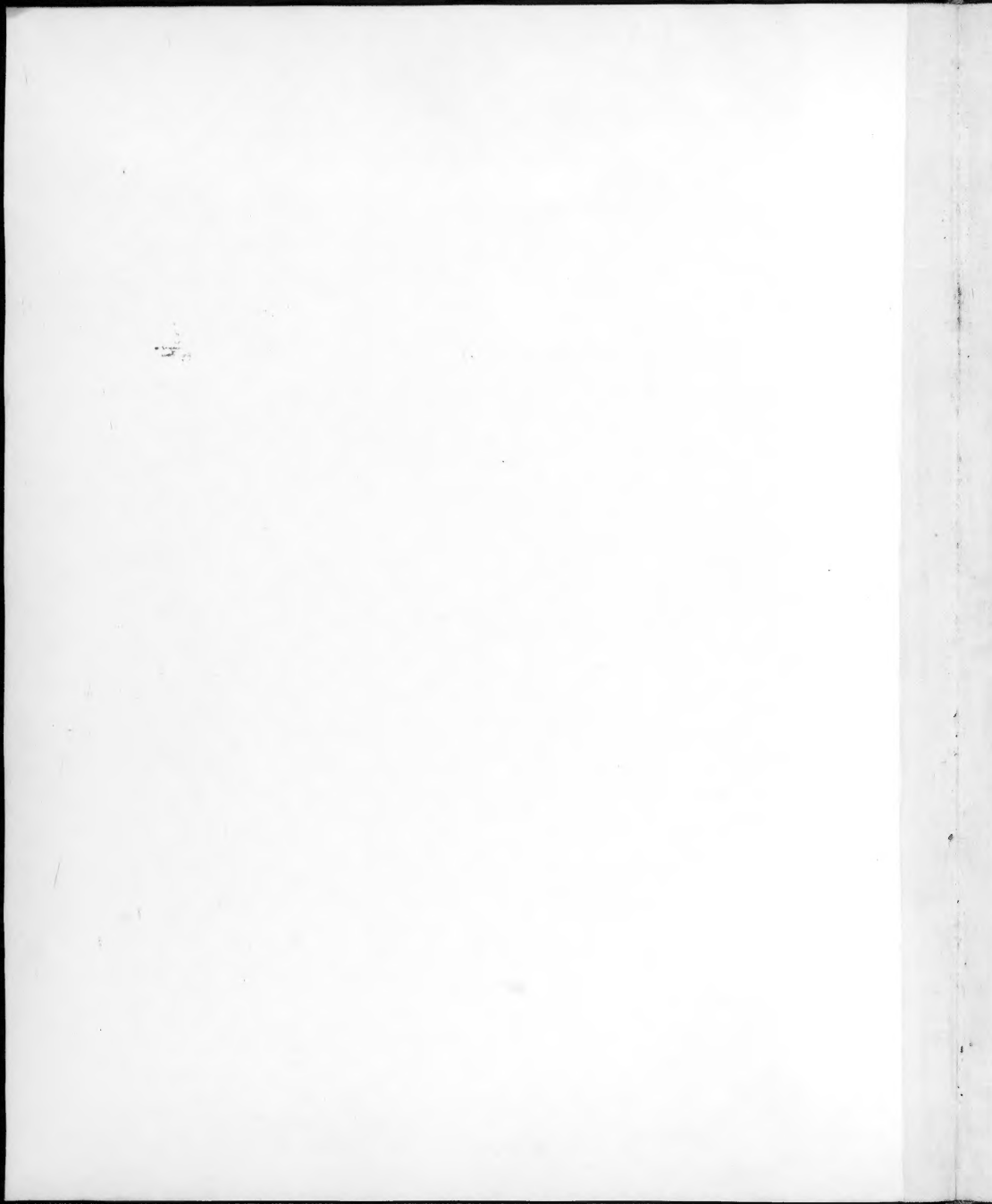
Josselyn gives us to understand that the wood of the white pine is that mentioned in the Scriptures as gopher wood of which King Hiram built the ark. Certainly if the white pine of founding days was abundant in the neighborhood of Ararat in Noah's time he could have done no better. The wood is light, soft, close and straight grained. You may search the world for one more easily worked or more goodly than it. It is indeed the best half-century has seen the good quality of the world pretty nearly used up, certainly all the best of it, for wood-working purposes. Fifty years ago it was the cheapest, New England wood, today it is the highest-priced, and the ordinary clear pine, free from knots and sap-wood is almost impossible to obtain at any price. For all the forestry we can bring into play it will take more than three centuries to grow for us such trees as were common in Maine and New Hampshire in the days of King Hiram. White pines were not rare in Maine six feet in diameter and 240 feet high. In 1738 near the Merrimac River above Dunstable in New Hampshire a pine was cut, straight and sound and having a diameter at the butt of twenty inches. Half a thousand years were none too many for it to grow such a pine as that. Could a man have a few of these on his farm anywhere in New England today they would be worth more than any other crop the centuries could have raised for him.

The white pine seedlings find so securely in the pasture grass and under the low bushes that rarely does one notice them during the first summer's growth. By the end of that time they are singularly, to my mind, like fairy palm trees, with their slender stems and the little folk stroll about in the evenings. Their single stem and the spreading whorl of leaves at the summit of it are in about the same proportion as those of a palmetto whose great leaves have been tossed and shredded by the trade winds of the sea. Half a century later, in the passage of centuries even a 200-foot tree seems difficult to believe. It looks no more likely than that the "ground-pine" which is taller than the seedling and fully as sturdy should some day be 200 feet tall. Yet the ground-pine may grow from its creeping rootstock for a thousand years in the shade or one grove and never be over a root tall. Thus easily may we be deceived by small beginnings. No palm ever rivalled the full-grown pine in height and girth, yet a palm tree grows as tall as a pine in diameter of trunk and with as abundant a leafage as it will ever have.

Watching seedling pines grow year by year it is difficult to see how the great, clean trunked, old-time pines that towered over the tops of the hills and were from four to six feet in diameter grew about. The free growing pasture pine makes a round headed shrub, for the first ten years or so of its life, with abundant long limbs, and is clad in profuse foliage for the first half a century. As decades pass its limbs still remain abundant and though there is abundant wood in the half century old pasture pine it is of little use for lumber, for the limbs, young and old, have filled its trunk with knots. Where our present day trees have grown in thirty years a uniformly considerable space it is difficult to see. The trees grow old they grow taller, each struggling to outdo its neighbors and get more light and air. Lower limbs decay in time and in the progress of forty or fifty years the second growth pine which is thirty to forty feet for a height of forty or fifty feet, give the trees another half century, yet you

do not know many groves that have had that and a second growth. The limbs bare, show the knots where the limbs have been and produce anything but clear lumber. It may be that by giving these century-old groves another century or two we should have something like the best of the old-time pines, but I am not so sure about it. See the promise of it in the conditions under which pines grow today. Even my patriarch, though he has a very sure, sufficient years to his credit, would cut up into only a medium quality of boards; there is no clear lumber in him.

To produce the wonder trees of the early half of the nineteenth century the tiny seedlings have rooted plentifully in rich soil, the trees were not crowded so close together as to steadily and persistently crowd out the weaker and shorter, and in the passing of two, three or four centuries we had remaining the patriarchs. These, towering two hundred or more feet in height, their trunks without limb or knot for more than half that distance. Such conditions may account for these enormous trees, yet I am inclined to think that they do not exist because of a belief that in these giant pines we had a variety of *Pinus strobus* which was very closely allied to our smaller trees, but which was not the same, just as the Sequoia gigantea of the higher Sierras is a gigantic variety of redwood, closely allied to but not the same as the Sequoia sempervirens, which flourishes nearer the coast and in the lower levels. That would easily explain why our pines, which we call "second growth," show little tendency to become such majestic or so long lived trees as the giants of a century and more ago. I have seen a variety of the old time mighty ones remain in any remotest corner of our forests. It is a pity, too, for it is probable that in destroying the last one we destroyed a variety of pine that was far nobler than any left.



Mrs. L. Brück
Care Mrs. Francis Shippen
Landing
New Jersey

13 July 1904

Massapog Pond Sept 2 1904

Club Trip to Brimfield ~~7^c~~
May 21. 1902

B

8074. I recently visited the old white oak on the south side of Ponkapog Pond. My measurement made it 15 feet 10 inches in diameter about five feet from the ground. The oak was in a healthy condition but sadly in need of attention particularly in clearing away the undergrowth that is choking it. From its wide spread and low height I should judge it originally grew in a clearing and not in the forest, and as it must be six or eight hundred years old its early history would be interesting. Can any of your readers tell me if it has any history? It should be given attention, and preserved for its size if for no other reason. 7 Aug 1909. E. R. J.

1900

Katahdin Trip.

July 4.

J.R. Churchill & I left Boston 9.45 PM Monday evening July 2^d & arr Bangor at 5; left at 6 in same sleeping car & arr Milo Junction at 7.35; changed cars and arr Staceyville at 9.35. Mr. ^{L.B.}~~E.S.~~ Rogers met us with Tote wagon, seats on springs, and a plat-form deck for baggage: a second Tote team took our Trunks as we rode with Mrs Rogers & their 5 year old girl Ruth: at a mile or half from depot we unhitched horses, & had dinner in gypsy style, hot steak & tea & various cakes & a potato salad: we were by the ruins of an old saw mill on a pretty stream: from this point our Churchill & I walked the 7 miles in to the Ferry or Lemmons house on the ~~West~~ ^{East} Branch of the Penobscot or Matagamou River as some call it. The walk was a beautiful one, woods all the way, hard wood ridges, & we noticed only one small patch of Spruce wood not more than 100 rods, on the whole road: tho so fine a road to walk it was a rough one for teams: the soil is clayey & the roadway is cut into it with side walls of a foot or more in height, these make a channel

vide Appalachia
Vol. II. p. 42

Mt Katahdin

Lat. 45° 53' 40" Long 68° 57' 51"

for the running water of which there was plenty, but the walls are of so stiff clay that a tolerable foot path is often to be had on the very edge of the little wall. For the last two miles a gradually increasing rain came on, but I had my umbrella & C. his rubber coat. The ~~S~~ House at the Old Hunt place we called at & waited there till the Teams came along: they had to come thro' the Hunt clearing but not very near, tho' within sight of the windows of the house. Here were a man & a boy keeping house & waiting for the sportsmen to visit them.

The last mile is by the River bank but I saw little fish on acc of rain. We collected very little tho' J. C. at the lunch place found good *Ranunculus septentrionalis* and *Sium Virginianum*. We are in the Hotel abt $\frac{1}{8}$ of a mile from the farm house: we sleep & live here & go to our meals at the farm house. Last night was cloudy & still, & myriads of fire flies gave us our Fourth of July Celebration.

July 7.

In camp. So Basin Mt Katahdin.
July 4th Churchill & I passed very quietly
exploring abt near the house & enjoying the
fine view of Mt Katahdin. In the evening
he went out in Canoe for the first time
in his life & with Mr Rogers & his little
girl they all saw a moose wading in
the meadow grass at mouth of Lewis
Brook. half mile or so from camp. July 5th we
started in morning ~~from~~ to the Metagamon
house & back & after waiting for the others,
E. Williams, Howard & J. Collins who
were at 7 pm were astonished at
the terrible state of the road. A big
gang of lumbermen came too so that
Mr Rogers had 25 men to get breakfast
for next morning; ^{also} that we did not get
off quite as early as we expected however
at 8.30 we were crossing in the Ferry Boat
swinging by wire & in a few moments
more were plunging into the holes of the
road, deeper & softer than the one
we came over from Staceyville; we
lunched at Rochers Camp 10 miles,
From this point on most of the wood
had been cut & burned & it was a
scene of desolation, not until very
near Bell Camp 11 miles further
did road enough appear to give

any rest to the wearied eye. We walked
the 3 miles fr. Cixy Camp to Bell Camp
and it was wonderful that horses
could take any load over such a
road. Bell Camp is at the end of
the Lake Road & we camped here,
using our blankets on the floor of the
camp. Fernald caught a few trout
on the stream & below the dam.

July 7

We arose early & started for McLeod's
camp, Mr Rogers on horseback, the
guides along side the jumper loaded
with our stuff which ~~is~~ to which
were hitched two horses driven by
Peter the French Canadian; we
walked the 3 miles most of it on
a smooth grassy road by the river.
We had just reached McLeod and
were arranging for our six mile
walk up the trail into the Basin,
when the clouds broke & a thunder
shower came down, so we had a
lunch of fried pork, tea &c & then
as the clouds lifted a bit, Rogers &
Peter took their way home with the
horses & we started on our walk.

The rain came before we had made
two miles & we continued our tramp
through beautiful mossy woods,

at the very least when we were only
 a few days in - my rocky ledge of
 a mountain side where boulders are
 piled - a sign of the movement. - The
 trees were very beautiful. One very
 tall one. - Was into the first
 day - which was not falling back to
 land at 11.15. The others came
 with me to winter side. One
 could not see what we were for
 about 1000 ft.

The wind kept us at home, but others
 would go out across the little snow
 - up a hill towards a snow patch. We
 saw one bear in the snow on the
 side of the hill. A very heavy snow-
 rain was over us some beautiful
 snow on the hills. The snow
 was very heavy some of the
 snow was very thick - the other part of
 the snow was the same. All the
 leaves were very dry & the high
 part of the hill - the weather was
 very cold - very much better
 than. The air was really just as
 warm as the sun was there.
 The wind was very hot & the
 part of the hill - it was hard
 to see.

1000 ft.
 1000 ft.
 1000 ft.
 1000 ft.
 1000 ft.
 1000 ft.

10 July
Monday

We all started up the Pat to the Table
Land at least: first by the bed of
the Brook behind camp - when we
hit the slide follow that. Roger when
he saw the slide said it was new
to him & must have come down
within two years & almost exactly in
the track of the old trail: the rain
now began to fall & heavy clouds & fog
obscured everything but we kept
on up to the base of some cliffs in
the "saddle" near the Table Land -
here the cold wind poured over in
chilly fashion. We looked & waited
but saw no evidence of change in the
day so came back home, it
rained practically all the afternoon
& no sign of clouds leaving the Pat.
even when we went to bed.

11 July
Tuesday

But on waking at 4 & seeing the
summits were clearly outlined &
we decided to go up. Left camp at
6.10 & could not help wandering &
traying on the Table Land, to see
the many charming names of lakes -
Wts Chesimkaad & Sawdeamuk
& Moosehead & Chamberlin -
Rambow & West Branch. Quick
water shows the foaming falls,

woods & forests everywhere. On arrival
at top we took photos & had lunch.
Then Rogers with Fernald & Collins ~~went~~
to the ~~the~~ Peak & by the crests to the
Chimney & old Parash & home down
the E. slope of Parash; while we searched
them at intervals & continued our work
& collecting on the N. W. slope: we
soon found plenty of *Saxifraga stolonifera*
var *comosa* under the large boulders
in wet places, & I found many
Sierana incl. *Elongatum* &
Conostemon boreale & *Pogonatum*.
It soon began to rain, shutting out the
landscape & we headed for home
coming down the slide & the Gooch.
We about 4 o'clock & Rogers party
at 5. Rained all the evening.

12 July
Thursday

A very heavy thunder shower in the
night & a hedgehog trying to burrow
under Churchill's bed kept some of
us awake, but we had breakfast
at 6. Rogers, Fernald & Collins set
out for North Basin by Trail & we
staid at home to arrange & dry
our plants. The sun is shining on
the Camp now at 11 AM out the
top of the Mt is all cloud.
The rain poured down all the afternoon
& the Bakerist. to North Basin came

13 July
Friday

home at 5 o'clock & reported *Arctostaphylos*
alpina in fruit as plenty over all
the floor of the No Basin.

We all went by spotted trail into
the North Basin & found the view
Eastward very beautiful & the
Basin entirely different from
this. It is higher altitude &
almost devoid of trees with big rocks
all over it, a little pond in the
middle of lower part of basin &
scrub spruce to go over or cut
way through. We found plenty
Arctostaphylos altho the rain
came down incessantly. Fernald
& Churchill & Rogers went clear up to
the base of the ledges & slides at end
of basin where we could see a
miniature Snow Arch tho I have
no doubt it was big enough if
we had approached. There is on
steep cliff of say 300 ft on the N. side
of Basin will up toward head of the
Basin against which the guides
fired their revolvers for the Echo.
We came out & proceeded
downward. Fortunately, not
having a shower en route, while
Fernald & Churchill & Rogers

stayed along time at head of the Basin
& got many good plants, but all
the time in vain which was
terrible after we reached home.
The three Collins EFW & I came
back with the guide Corser.

10 July
Saturday

Fernald took Rogers & went again
to the North Basin to finish work
on the ledges & slides. There while
we staid at home & took care
of yesterday's collecting. Collins
did not find so great variety in
these woods as we expected, altho
there is an enormous lot of moss
the species are Hypnum splendens
& Schieberi & various Diaranea
these make up the bulk of what
we see. Mosses are very
scarce & we have seen no *Ulex*
or *whit* etc. We got a *Sphaeroid*
on Caribou remains up the Big slide
& another on dung in the wood.
both different ones. Not much
rain has fallen today as yet. 1.30
pm but it is cloudy & dull & there
have been a few showers this am
Fernald & Rogers came home 5 pm guide
staid out, they had a
No Basin but found

nothing newer than yesterday. They ascended to the North Peak & back again down the ravine slopes, & came home in a driving rain storm well wet through.

Sunday
July 10

Sun rose into a clear blue sky & we welcomed the long lost fair weather, but we had no trips on hand today for the men have to make two journeys to M. Had's camp to get our skipt down for going home. They left at 6 am & I took several photos the weather was so fine, Hussey the Cook. Snapped the interior of the camp with all fur by the fire & I took the mountain from the lake which way turn out better than yesterday I took there. Collins here showed me much about the man.

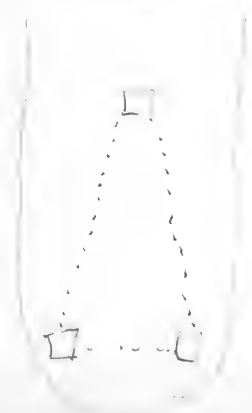
10.50 am and continued pleasant until evening. A young porcupine remained all day long in a fir tree near camp & at 5 P.M. came slowly down in spite of our attempts to keep him up the tree. As we did not wish to injure him, he scuttled off

under a brush heap we heard him
in the evening examining the fireware
of our kitchen. The men made
their two journeys down but did
not return in the evening, some
sat in the lean-to with Hussey
enjoying the fire and star light
making it the only real camp
night we had had. Emile today
swept the camp floor and in
other ways demonstrated his
housekeeping capacity which
has thus far been submerged in
the rain storms.

Monday July 16. The men came back at 7:30
& we had long been ready for
them with bags all packed &
strapped. at 8:15 we started
down. weather fine. we stopped
a while to localize at 3 Poid.
where Amal found what he
thought was Carey Brown.
Collins & Emerson had
kept on to Mc Leads camp which
we reached at 12 in the ever-
increasing blackness of a thunder
storm. It rained as soon as
we were found. In the
evening the party came in

way out. We had a bunch
 set out for Bell Camp by the
 lumber road in a north direction
 which with the wet slushy
 banked roads well before we
 arrived. The horses pulled
 the sled load across the
 river after the men had
 shut down the gates to lower
 the water and although our
 packs were not really wet
 by the stream several of them
 were slightly moistened inside
 from dirt, dimes.

Notes: have slips of pieces
 of leather or canvas sewed to
 bags for the men to put steps
 through if the bag is to be
 covered thus when the



inter-line
 represent the
 steps. The
 men after to
 the steps and
 carrying.

A lumber camp is a poor place
in summer & I did not sleep
very well. Chasing my teeth
with E.F.W. & looking out into
the dark caverns of the camp.

L.B. Rogers came with Team from
Patten ave. at 7, and the
new gunnery E.S. Rogers -
did not have lots of trout say
a dozen for us to eat so
hot trout omelet, & cold bread
made our supper & breakfast
next morning.

Monday
July 17

Doubtful weather at 4.15 Am
settling into rain by 5.30. We
got started & all hands worked
3 miles to City Camp, & soon
after began to ride the rain
hazy & good deal lessened
tho' still in evidence. We
reached Pokras (so pronounced)
at 11 & had lunch, where the
beef soup capsules came in
well soaked in boiling water.
We rode to Dairy Dam, over
the road which has been well
characterized as the road where
one rides for exercise and
walk for pleasure.

Nov 3. J. Rogers - first got us to a
skiff & we went on then down
down among the rocks & the
Massachusetts - in this way to
take the skiff over to the
Terry Landing which they
reached about 10 o'clock.

Collins & I went to the river
all the way out from the point
& after reaching the crest of the
hill the heaviest rain of the
whole trip struck us & continued
all the way to the Terry. The
most of the Indians & the
Sergeant who had been with
us, in the rain by the side
of an impassable swamp in the
lowlands by the river - when the
water finally fell down as soon
the water was in above the
hubs & just touching the
floor under our wagon,
but we did not touch it.
The water being over our
heads & dripping at two
hot fires - before we
could bring ourselves
clothes sent.

Wednesday
July 18

Fernald had to reach Boston as quick as possible so he started with Peter as driver at 10 am for the afternoon train while he sat but spent the day in getting blank clothes in some kind of long shape. It did not rain till the afternoon & Peter reported that Fernald reached the RR station all dry. A fine thunder shower with us gave a wild sky & fine view across the River.

Thursday
July 19

Went to 7:15 breakfast at 5:30 we were off for Grayville bright day. W. W. wind white clouds hiding the top of Katahdin, fading into gray & dark ones later. The road cut was queer, the water felt a like a brook, the hills were deeper in one place by early evening gray over. Adams advised to "get your belt under you and sit down upon it" nearly unaided sat. The floating ~~country~~ ~~road~~ were a ~~strange~~ for the houses,

and a trial tour, but we reached
the Shrewsbury station before
7. Am. C. F. W. & Colliers took
the 9.30 North for Van Buren
Churchill & I the 9.56 to
Boston. Mattie met us
at Bedford at 6.20 PM. -
Churchill reached Boston at 9 PM

Friday Clear fine day wind East.
July 20 Left Bedford at 7.11. M. to B. 11.30

1978

July 29
Monday

Went to Hillsford Pool with L. R. Woods.
 Did nothing Botanical Hill Saturday
 the 28th when in Am I explored said
 fields marshy land betw. Beach &
 Pool. *Spartina stricta*, & *Juncus*
communis on the sandy black grass
 land. found another the 3rd patch of
Arenaria peploides. PM drove with
 HWK to Hills Beach opp the Steamboat
 landing, & remained on a slaty
 bluff some time waiting for Michael
 who did not come. Took some
 photos of river at low tide.

1900

agavequit

Aug 24

Went yesterday to stay over night
with Capt. K. ...

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Stachys sedifolia

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by ...

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near ...

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- 1900
 Nov 5. Walden St. and Danville St
 left Boston with ad Dodge at 10 am
 arr Danville at 4.45
 Nov 6
 walked abt & around the town.
 beautiful Indian summer day.
 counted 12 spec. still in flower.
 Also the curious bulbous rooted
 Violet *Selkirkii*;
 Nov 7
 walked to Walden depot &
 found curious branched *Polytrichum*
 by the roadside close to Walden
 village on the way to the depot.
Pogonatum ussigerum P. Brien
 Nov 8
 to Bradford St & called on Miss
 Bacon & on to Whitefield St
 & at Dodges.

Nov 9 cold snowy day & also the 10th
 came home Monday Nov 12th

In flower at Danville Nov 6. 1900. The Rock.
Ranunculus acris *Solidago canadensis*
Solidago nemoralis *Chrysanthemum leucanthemum*
Fritillaria patens *Capsella Boreaphora*
Cerastium *Fragaria virginiana*
Laguna *Achillea millefolium*
Oenothera purpurea *Taraxacum dens. lewis.*

1901

Jan 6
Sunday.

Went with the sledges to the
 pond at Kooie-wissick Club used
 by blocking the meadow. Walked
 out across the pond & up the brook
 on the ice. Came back via Cut House
 by woods & paths behind the Brook House.
 One stone in brook *Trichostema*
 + *Stenolobos* *varium* *St.*
 - *Trichostema* *var.* *St.*

0-8

1921.

... S.K. - I left
 Boston Tuesday eve. Feb 19 at 7.45 +
 arr Bangor at 4.10 Feb 20; left at
 7 AM + arr Patten at 11.20. Ed. Rogers
 + on train at Stacyville + came to
 Patten: Capt L.B. Rogers met us at
 station + we got rooms at the
 Palmer house: PM Capt Rogers
 took us for a drive but the cold wind
 drove the snow about + we could
 not see Katahdin or in fact any-
 thing, so we stopped at Rogers
 house + saw Mr R + Ruth - after
 talking with Mr Palmer we decided to
 come here + next morning Feb 21. Rogers
 + the boy with a pair of horses +
 sleigh + Palmer took our trunks on a
 team + we came on 12 miles to Spall
 Shinn Pond to Cooper for dinner: here I
 saw the Arctic Snowbirds; the English
 sparrows were flying in + out of a hole in
 the barn like Barn Swallows. After
 dinner the 13° we came 10 m. further to
 this house + before sunset tracked a
 mile further to a ^{deserted} ~~deserted~~ ^{camp} ~~camp~~ +
 saw the white winged cross bill, male + female.
 We went to bed early + Sinclair made
 up his mind to go on with the job.

22
Came to Chandler's farm to be made
up early this morning & off with the men
at six o'clock. After breakfast at
7 we found to our surprise the ther-
mometer was 8 below zero. The snow
was piled up on the horse back ridge & the
Katabatic was very clearly seen & took
Panorama views - Then we snowshoed
thru the woods by the roadside to the
recently deserted mine. Saw Blue
jays, Canada jays, Grosbeaks & some I
knew not. PM we drove to
to a lake thru snow & ice. Ail & went
in abt a mile to the lake: the trail
was exactly like our Soudanahunk trail
of 38 years ago. Saw a Peleated Woodpecker
it showed a good deal of white in pluming -
got feathers today very plenty & fine.
The lake is large & fine very well.
Ther. today 16° above & at 9 PM 2° below

Feb 23

Saturday.

Ther at Sunrise 15° below zero: after
breakfast we started for Trout Brook
Farm, going by or near Mud Pond
& stopping at Brown's lumber camp
on a steep ridge below Mud Pond -
Trout Lake. Here I had a pair
snowshoes reg'd with a trail
in Soudanahunk style & liked it
much. We did not drive

the crew for they were in the woods, but had good bread, tea, gingerbread, doughnuts & hard molasses - We drove up Grand Lake & across the East Trench to Trout Brook house & staid a half hour, driving home came out from 4 to 6 we walked about the fields & up the horseback here
 Katahdin wh. was fore
 clouds & we could see right at Ponoia, the Basin & the North Table Land: a fine sunset. Ther. 12° above at 6 P.M.

Sunday
 Feb 24

Ther 5° above at sunrise & a fine snow falling from a laden sky, & this has kept up all day. Having spent some fine putting in our rickonnet things in my snow shoes we went out for two hours in the woods & to the little camp. after dinner went to the

Monday
 Feb 25

Katahdin show out clear this early morning & with Ther at 0 I went up on the Horseback & took a Panoramic photo. wh. I probably saw by some very generous man. We got away before the late train to town, lumber camp, some along a track
 Katahdin without a stop

21.

... with Wood Mt. Gilbert's ...
 ... 44° inches thick ...
 ... cow pasture ...
 ... toward ...
 by road: ...
 ...
 ...

April 13. with Dad to the Falls Station
 in Maiden + up the Cascade
 Falls, getting what is perhaps
 a *Thamnia* + also on White Rock
 in ... , wh. I do not find
 recorded in any Middlesex list.
 Took photo of Falls + then walked
 ... + following
 ...
 ...
 ...
 ...
 ...
 ...

1901

11/11/01
Saturday

Dr. Vandy of the collection sent
to me which I found in the
hands of a very young girl
with the flowers in a basket
"the water". I have a letter
from the collector of the
year about the country and
how easy to reach if you
stop at the place in
Kuala Lumpur. I have
also a letter with the
name of the collector and
the name of the collector.

12/11/01
Sunday

13/11/01

The night was very dark. I saw
 a few stars. I was very tired
 and fell asleep. I had a
 very bad dream. I was
 running through a dark
 tunnel. I was very
 scared. I saw a
 light at the end of the
 tunnel. I ran towards
 it. I was very happy
 when I saw the light.

... the Commission decided the...
 ... along the...
 ... Montreal, down...
 ... with John W. ...
 ... Fish Commission & also...
 ... The express stopped for us at 4:35...
 ... at 9:15. The ride...
 ... through...
 ... very fine. ...
 ... to ...

... at intervals all day. ...
 ... we went to St. Luke St & ...
 ... family for Mrs. ...
 ... Henry, Jesse, & John & ...
 ... on us at ...

... left Montreal of ...
 ... 1.45 ... 3:30. The ...
 ... at Newport is ...
 ... went down to ...

... by the ... station ...

... in the rain ... below ...

Monday
June 3

... worked ... beyond ...

... on the beach at lake ...

Tuesday
June 4

... The snow still persists ...

... in ... in ...
 This is new to the region. Got also
 ... in ...
 ... in ...

The ... to the ...
 came from ...
 ... by the ...
 ... to ... a remarkable
 ... with three equal ...
 petals, each with two ridges on it,
 ... has ridges only
 on the top, it had a very ...
 white ... under each flower
 a very ... as long as the
 ... along the ...
 ... the ...
 ... with
 the ... made a small
 looking flower with the ...
 column in the centre. I found two
 ... about two inches apart
 but found only one small coral like
 ...
 ...

On examining the leaf I first observed
the leaf thin & hollow with a
yellow substance like waxen with
a hole on the upper side of each
leaf where apparently the insect
had made his exit after being hatched
& crushed in the leaf. The part
of the leaf just underneath is green
& healthy & with a clear cut line
of demarcation between the healthy
& hollow portion: this insect therefore
requires an almost insensible number
of eggs & a patiently persistent mother
to deposit an egg in each leaf.

Friday
June 7th

Leaf eating was tremendous and dark
as night tho' barely any wind.
This morning foggy dawn at
dawning but severely a hot day
soon. I walked up to the Park
mountain - found my blossoms
cut on one side. Got a lot
of curious receipts on soft soap
see page 10. Picked a double lot
with a few stalks of red & blue
& gathered some of my plants
showing the base of the perianth - a
white substance as large as the leaf
of the perianth. Remains all from
last week at 7 & arrived at 11:00
to see the ...

June 8th
Sat.

Blue Hill.

June 14

Went up Blue Hill & down the south side this pm expecting to find *Siparis liliifolia* but did not. Brought back two cactuses near *Couvillea* or *tetanea* that are new to me. Saw the *Asclepias quadrifolia* in fine flower + various *Panicums*. Very warm muggy afternoon. *Carex grisea* was one of the above the other a large *parpatulifolia* *gambeliana*

Wellesley Mass. 1840

June 15 left Boston / the ...
Williams, Judge ...
on the train also Mr. Mrs. E. G. Hoy.
arr. Wellesley at 5.20.

...

... a day & we ...
... & water calling for Mr. ...
... village we ...
... the right where ...
... field. It was a very beautiful ...
... at Campsey place the path through ...
... the left rather ...
... the right & follows the brook ...
... several bypaths there ...
... a chance to go astray there ...
... the Pittsfield ...
... kept the road to the ...
... Two carriage roads ...
... Pittsfield ...
... the former is ...
... & ...

RADIUM AT WILLIAMSTOWN

GAS FOUND IN SAND SPRINGS

"GOOD MEDICINE" OF THE INDIANS

And of the White Man, Too, Found to Be Due to the Properties of Radium

The discovery of radium in the waters of Sand springs at Williamstown, widely known because of their medicinal properties, made early in the summer, has been followed by examination and study by scientists, who have determined beyond any doubt that radium exists in the spring, though to what extent it is a difficult matter to ascertain. Prof. J. E. Shrader and Assistant Prof. Brainerd Mears of the faculty of Williams college have been examining the waters frequently for the past few months and each time have found radium beyond question. The springs from which this radium gas has been taken are located on the north side of Williamstown, about a mile from Williams college. They are owned by Dr. S. L. Lloyd, who has built there a sanitarium and large bathhouses, and they have come into popularity as a bathing and summer resort.

As far back as the springs have been known in history there have been stories of their wonderful healing properties. The present owner came into their possession in 1894. He was then a practicing physician in Williamstown and realized that the water of the springs had some peculiar healing properties, particularly for skin diseases and rheumatic troubles. He bought the property of Foster E. Swift, a well-known hotel man of North Adams, and immediately began its development. In 1895 he built a sanitarium, intending to develop the springs solely for their medicinal property. The place was sought as a summer resort, however, and with that there were added large bathing facilities until now the springs are widely known as a bathing resort. The fact that the water contains healing properties always gave the doctor a bit of trouble because he was never able to determine what they were. Every analysis of the water showed that it was almost pure, the largest amount of mineral salts ever found in a gallon was six grains and a fraction, which was not sufficient to be of any practical medical value.

About a year ago a chemist expressed the opinion that the healing properties of the water were due to the presence of radium rather than to any mineral salts. The positiveness of the chemist led the doctor to place the water before Prof. Shrader and Assistant Prof. Mears. Prof. Shrader says that radium exists in the water beyond doubt. He explained the method of examination and said that whenever any gases had been obtained from the spring they always showed radium. The gases were caught as they bubbled up and were closely confined, and the examination made as soon as they could be taken to the laboratory. To whatever extent the radium exists, it cannot be, Prof. Shrader says, of any commercial value, except by the springs themselves. It is impossible to confine radium gas for any length of time, the longest that it has been confined being four days.

As far back as the days of the Indians these springs were known as medicinal springs. The old Mohawk trail passed not far from them, and the Indians stopped there every time they passed. Mason Walker, who died six or eight years ago at the age of 97, lived within a stone's throw of the springs for 81 years, and remembered when a medicine man pitched camp there and did a land office business with the water as a healer. Aaron Smedley, a member of a family of Williamstown settlers, as early as 1762 told of the value of the waters, according to "The Origins of Williamstown," by the late Dr. A. L. Perry of Williams college. More than 100 years ago there was a bath house at the springs, for in 1826 an old paper published in Williamstown, "The American Advocate," advertised the baths and the healing water of the spring.

The spring was then owned by a man named West. For a time the property was allowed to go down, but during this time the springs were visited every year by regular visitors, among whom was the well-known Springfield hotel man, the late Tilly Haynes, who was enthusiastic over them. All kinds of stories have been told of what the waters have done for the sick and the lame, but so far as can be ascertained they never made the blind see nor the lame walk. It is certain, however, that they have worked cures in many cases of skin diseases and rheumatism, and several instances are cited where they have succeeded when physicians have failed. The present owner has developed the water as a table water, and is making from it a ginger ale and soda, building up a considerable business in this line. No great attention has ever been paid to the curative side, and the examination of the water the past summer came largely from the curiosity of Dr. Lloyd and the interest of Prof. Shrader and Assistant Prof. Mears in the possibility that radium existed.

we found little to collect. On reaching the top we went to the top of the 4-story from Observatory for the view. The day was very fine but hazy at a distance. The Catskills were dimly seen also - what we called ascentury. We found *Ambrosia oligocarpa* on top, but no characteristic northern vegetation. 26 people were on the summit besides our party of five. We walked down the ~~the~~ stairs ~~to the~~ Fall house ^{5-20 miles} to the guide post. ~~we~~ ~~at~~ ~~some~~ ~~place~~ at the Fall house. The views in the last two miles of the ~~and~~ were extremely beautiful. In the woods we found many good things: *Mitella diphylla*, & many *Botrychium* spp. *Simplex* and *matricariaefolium*, *Hydrophyllum Virginicum*. I collected only a few mosses. *Polypodium alpinum*,

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174

June 17
Monday

The walk to the lake along the Indian
ridges + "sandy" banks of the Tonal
Road + up that across the line into
Tremont; this is a beautiful walk
back with some striking views, includ-
ing the water trough on the east
near the line. The insects, birds,
and other collections: many new
forms of *Capitella*, and some
very beautiful specimens of
Cypridina spectabilis + others.
We also made a number of
Capitella specimens, many of which
are new to the usual forms. Some
Arctiidea + *Ichneumon*, - some
Spalangia + *Phaenocarpa*.

Viburnum cassinoides - 1 form, 1 insect.

Full one more at it with a number.

June 18.

Got up at 4 to take the 5 o'clock
train to Boston, but it was 3 hours
late + we took the 7.10, + arr in Boston
at 12.40.

Friday
June 21

Spent the day at home with
with the family, got some
of *Messa* specimens.

July 4. The family all being at Biddeford
 Pool, Ad Hedge Jr & S. F. Williams
 spent the 4th here: a pleasant-
 summer day & allowed much
 extreme heat the past week.
 We walked up Blue Hill &
 down the other side home by
 Wildcat notch. On the top a
 very narrow leaved *Populus* whiteflo-
 lid, *Corylus* *priscus* in parts
 on both sides - a young *Juniperus*
horizontalis.

July 12 Left Boston 7 PM with A. D. Hodges:
could have left at 9.45 & changed at
Bangor or Ellsworth for our Train, arr
at East Machias at 9.55 Am a

July 13 Saturday.
very pretty village. with rather hilly
... We got
train fr. Sanborn's Hotel & drove
12 miles to Cutler: part of the way
thru woods & again with views of
the tidal river or bay. Arr Cutler
at 12.50. The Cutler House kept
by Mr. Grothusen looks down the
fjord like bay to the ocean. The
white spruce abounds here & the
fir & spruce all have fine young
cones. After dinner we walked
down the road & thru woods to the
ocean at entrance to Little River
or "the Harbor" as here called.
got *Vacc. vitis Idaea*, *Eupatorium*
Rhinanthus, *Euphrasia*, fine
large *Ranunculus septentrionalis*
sending out rooting runners from
the nodes, *Gromia maritima*
on the cliffs at entrance to the harbor,
& a large *Orthotrichum* on old spruce
trees at shore, *Microchaete boeckii*,
various *Carex*, *Eriophorum alpinum*
& a very glaucous *Plantago* at shore

I got today the same amount of
 my notes - in the first - perhaps
 perhaps, and a number of letters
 with perfectly correct plain
 + outside letters, - but the
 about less than the notes, the
 the notes by - but they are
 that as if down, however, it
 with it also the plain
 also got the first set of
 for. I want to deliver
 with glasses, they - a very
 clouds for first part, the
 this grows the first. I want
 a number of letters in the
 or what appear to be it, the
 two curious letters, also
 letters in the second set, and
 letters of the same. I want
 them - from the second set, and
 all considered for using the
 while the first set. I want
 my letters - and notes - a
 also in that - a set.

15 Day very warm, 42° at 2^{PM} but cool
 enough when out of the sun as a breeze.
 S.W. west wind blew all day. We walked
 to Demustons Point & had dinner at Mrs.
 Demustons house 25 cents each: Here
 we could see Old Man Island with a
 colony of Sea Gulls on it & Wash Island
 and part of Cross Island with the Beacon
 pole of the Life Saving Station on high
 bare ledge of rock. Just below the
 Demuston farm house the sea beach is
 rocks & large stones & the bank is a
 wet clay with springy places & shades
 of small area. I hoped to find some
 rare things but did not. After
 dinner we walked back to school house
 & explored the sphagnum bog near by:
Eriophorum, the two cranberries, *Carex*
Magellanica & *crinita*, *Covillea*,
Ledum latifolium, *Rhodora* & *Lonicera*
caerulea, *Kalmia glauca* & *angustifolia*,
 on wet bank by roadside *Juncilago*;
 The Spruce woods are very dark &
 dense when you enter them, & the
 fir balsams bear cones when not
 over 15 ft high, also the white &
 black spruces. The evening at
 the Hotel was also quite warm.

1901

July 16
Tuesday.

We walked on the Dubec Road about a mile but being out of the wind & in the hot sun we turned back & took point path under the Spruces & visited the Tin mine near the shore; the shaft with deep water in it & a big pile of refuse & the roadway thro the woods are what is left of it. I did not hear when it was worked. We came home to dinner & having telephoned to Sauborn's Hotel at East Machias he sent over Buckboard with same driver (Cummings) who brought us down and at 3 PM we said Good bye to Ner Grothusen & came by the "Back way" by Gardner Lake a very fine 15 or 20 m long pond to the village & had tea at Sauborn's Tavern. We had heard at Cutler that Gardner's Hotel in East Machias was the better one, (it certainly is better situated for air & view & perhaps for families would be better) but we had an excellent clean & good supper & got the 6.47 train for Calais; arr at 8.15 & found the town; the Hotel St Croix Exchange; & our bed rooms

extremely hot as the day had been a
scorchers 97°, but after opening
windows we cooled off somewhat.

July 17. We left by Boat at 7.30 & went
to ~~St~~ Anvers & by Bus to the
Algonquin Hotel: this place we
found hot & still and we did
not walk abt any for the woods
are far off & all about are open
fields & cultivated land. So after
a lunch at 12.30 we drove to the
Boat landing & took boat at 2.30
back, arr at Calais at 4.30 - We
took 6.30 train for Exmouth & arr
at 8.24. Stopped at the Giddy
House, Ther 63°. we walked
abt the streets before bed time,
watching also the people come
to the P.O. for the evening mail.

July 18. Much fog in the morning which
suddenly lifted at 9.30 & we took
the 10 o'clock Boat Lube for Campo-
bello which looks very beautiful
a mile & quarter away. We
visited the Hotel. They cost & called
me Mrs. + Mrs. Stells. Then walked
to the Hotel where we had not very
good lunch (75c) & took 12.30
Boat (Lube) again for Lube

back to Eastport at 4.30. A heavy fog at Lubec prevented us seeing southwards down the strait, slow patches of fog being over the water. Campobello is a very pretty place & the views must be fine. Ther 62° at 4.40 when we reached the Eastport Hotel. There is a small Public Library building here, the Peary Library. We started the water tower hoping for an extensive view, but it began to rain just as we reached the summit & we returned soon: the showers continued in the evening.

July 19
Friday. Left Eastport 7.33 by RR for Bangor & arr at Biddeford 6.24. Day fresh & bright.

July 20
Saturday Day rather muggy & warm. PM Capt Fletcher took us in Buck boat for drive to old deserted farm in woods & home by Fortune's Rocks.

July 21
Sunday Warm & muggy. Did not go out all day. Reading Prof. Geo. on Probing from the old Test with Bishop Collins at Pentateuch whi I brought with me give me a new idea of the Hebrew Scriptures.

July 22
Thursday Warm day with brisk West wind.
Ther 88° on the pier & 94 at the Life S. Station.
P.M. walked with ad but not far.

July 23
P.M. we drove in Bushbaird over to the
old house & home by Toxum Bel.

July 24
at home all day.

July 25
saw air came from camping above
Moosehead at 3 P.M. while Hattie,
W.H. & Ma I had drive to Kport.

July 27
Saturday I walked to the point in Am & on
the rocks there found pools of fresh
water similar to those at Cutler.
of various sizes and depth & in all
of them even when close to others
backish & salt pools the water was
fresh & good. The most common
was - small ones 1/2 in - 1 in
in diameter - some of them
with shallow basins over
them. In the morning of water
from a hole by spring. The water
was clear - some of them had
moss on them & they were in
a rocky condition.

July 28
Friday at home! East Rain storm all day.
July 29
Saturday at home! at noon. P.M.
walked out on the rocks by Hattie
Lodge. Hattie & Ma I had there

and a specimen from a little distance
to the east of the point, possibly too in
depth of the ledge - not in reach. In
Lepanthis locality in this part of the
old station. This with others, also
Kakawana lace.

Aug 15
Thursday
Scituate

with Snelai and Mr. to ...
got up ...
we went to ...
the road ...
with plane ...
side ...
a very young ...
we returned ...
the beach ...
Kakawana ...
the ...
would ...
last ...
Dover ...
some ...
back ...
some ...
the ...
continued ...
photos ...
rain ...

1901

53

Sunday
18 Aug

walked with A.D.H. to Randolph Jucupine
back by the Reservation Road exceptive
turned off by right hand path & came
out on Randolph Jucupine opp Pakomet
Spring, a very good Drinky place.
Got a very few things.

Sat
31 Aug

wrote M.K. to Beddefas Pool on
12.30. M.A.D. & H.K. to Marble-
head at 12.40 & on yacht Foam
to the Pool with the Kieve, &
Miss Diveran: They are on
Tuesday morning Sept 3, having
been compelled by bad weather
to stay in Gloucester Harbor
over Sunday. Wednesday Sept
4 M.K. & I came from the City
to Gray's Inn Jackson N.H.
Fine evening when we arrived
with a much of bit Washington
showing very clear. Gnaphalium
decoloris near the Inn.

& going
to the nearby to Lower Bartoll; the
day was very warm; Solidago
occasional by the roadside. We
took the Thorn Hill road back then
by the Gray college, now
private residence: we stopped

here a few moments & the two ladies
 showed us over the lower part
 of the house which we found
 view of the two Lombardy poplars,
 one each side, with the road close to
 the house: below on the left are the
 houses of St. Wladimir - The big
 one on the left. On the right side
 we decided to leave Jackson at
 11:30 for Whitefish - 7 bridges
 at Whitefish; two more bridges
 today will give us.

Sept 6
 Friday

Day very warm but little
 played our game & my wife
 saw the King - saw the
 one from here - from the
 the house, we had
 nine o'clock, we no longer
 beautiful cloud effect of drive.

Sept 7

Just as we got home news came
 of the assassination of the King.

Sept 7

very warm day. We did nothing
 but rest, called on Mr. Kimball.

Monday

cool day. We went thru 72°.

Sept 8

Millie & I started to walk
 seeing a large Canada 5" decided

Sept 8

to go there to dinner; we went
 by Kimball - saw the King

Sept 8

the King - saw the King

to the house were 9 or 10 miles.
 Lived at the Sarsaparilla House
 called on Mrs. Freeman a daughter
 who had lived down the part of the
 Valley since 1826; I tried to find
 if she knew of the whereabouts or
 existence of the record books of
 the old House kept by her father,
 but she thinks they were burned
 in the fire: she told me that some
 the botanist had very small feet,
 the smallest she ever saw on a man
 & easily got fixed on his mountain
 trips. She gave me the address of
 her elder sister Mrs. Wm Hayes
 on Hancock & Pearl St, Stoneham.
 He had carriage to bring us back
 fr. Lancaster & avr. home 4.30.

Monday
 Oct 9.

Mr. Dodge from N. York to the station
 we took 8.40 to the Chambeek at
 Jefferson. morning cold & smoky
 but we hoped it would clear. We
 left the Chambeek at 9.30 & went
 12 miles to the Ravine. No arriving
 at one o'clock. The smoky haze
 increased all the time & we could
 see nothing over 500 yards away.
 It continued all the way to
 the Ravine where we arrived.

1897.

1901

side of the range I was much disappointed. We took 2.35 train back for Appalachia station & arr Whitefield 3.45, Mr Dodge meeting us with carriage.

Tuesday
Sept 10

We remained near the hotel all day, mostly staying & of with Mr Gordon Turnbull.

Wed. Sept 11

Left Whitefield 9.08 & arr in Boston 5.30, being 45 m. late.

Bourne.

Sunday
15 Sept

Spent last night at Emily Williams with Fernald & we left by 7.38 train for Cataumet on the Cape. arr 9.20 & went to two small ponds & then to Flax Pond a beautiful sheet of water in the woods. On its shores *Hypericum adpressum* & another new species. Went to Cataumet station near high hill *Eupatorium sessilifolium*, *Sium* & *Solidago rugosifolia*. It was a fine beautiful day with S.W. breeze blowing. The left at 4.57. Boston 6.38 & took 7.19 to Readville.

Side of the Pond

Sept 17 Came to the Pond in a heavy rain
 Sept 20 went with Capt Fletcher in the woods
 relay of "Bees" red home & got a few things
 Sept 21 had some in the forest over Sunday &
 Sept 30 he & I went home on 9.30 am & mother
 & I came Wednesday Oct 2nd -

Camden, Maine,

went to Camden on the evening of Oct 7th
 returned to Bangor Oct 14th.

Hemaphysalis in Bangor: brought home
 seeds of what appears to be *Piphus*
sinuatifida, growing to the ground: it was
 growing on the ground - saw also the
 in a bush with it on Oct 10. It is very
 in very use - for the since 1886
 made it more, then 1886. This was
 in the pond

1901

Oct 20
Sunday

with Williams, Reed & Rich to
 Winchester: visited Mather Park
 Round Pond & Top of New Knoll
 got *Colubus*, & *Hemiscopus*,
Therapsid *Hallii* - *Procyon* -
Cassida *viridis*; *Leucis*
Cassia *viridis* with *Staphy*
 affinis on same plant. at home
Pseudis *viridis* *Staphy*
viridis *Staphy*
viridis *Staphy*

1901

Sunday
Sep. 1.

Small cone out in front house, on
 my house was *Staphy* 11 *Staphy*
 and *Staphy* *viridis* *Staphy*

1902

59

Nov. 11.

Walked down road and across to the
 M. L. L. land in the McHouse River Ravine.
 The new leaves had formed on the
 Sambucus and the old pods of the
 Liliun Canadense in the meadow
 attracted my attention from the
 stout net work fibres which
 kept the cells from opening too wide
 & effectually prevented the seeds from
 escaping; the pods are upright
 & the seeds must be ejected by the
 wind lifting them from their hori-
 zontal layers & blowing them out
 at the open apex of the cell or pod.
 Several pods had seeds in them,
 but these were not laid in close
 order as in the newly opened
 capsule, but as if many winds
 had tried to eject the seeds &
 what were left were in confusion
 in the bottom of the cells & might
 perhaps never be lifted out. Above
 place among the red cedars were
 masses of snow fleas on the six
 are in a soft snow, then 35°
 was again falling mostly in
 the particular region of Red cedars,
 I were yet not fallen from the
 trees, as none were on my

60
light colored felt hat as I walked
among the trees & none on the little
patches of soft snow clinging to the
trees; nor did any fall to the
ground when I shook the trees.
Also among them but in small
number was a four winged fly
7.5 mm long, proboscis two & 3.5 mm
long & two subcostals 2.5 mm long.
Eight segments in the abdominal part
& a light colored fuscous band running
down the middle of back of the abdomen
with a dark fuscous band longitudinal
band each side. The snow flea is 8 mm
long over all, his two proboscis are .5 mm
making his body 1.5 mm. I did not
see any among the maple trees
in the swamp, only at the place
where there are many birches.
They quickly sought the shelter
of my foot & marks in the snow
& were lying there in black heaps
almost as soon as my foot had
left the impression in the snow.

1902

Feb 1

Camden, Maine

left Boston 1.15 yesterday with A.D.H. & arrived Camden 8.35. Got two good rooms 19 & 20 at Thorndike House: at 7.40

left morning to Camden by Electric car. met Mr. & Mrs. McKay & then walked up the road to the Bath, some frozen snow on "cut Road" but none in the village streets. Good view though day soon became cloudy & cold.

The highway coming back got what appears to be *Neurospora* with numerous white branches well-branched with bright yellow resinous dots & a bunch of dead leaves at ends of the branches. No other growth in any part of box. R.M.

Mr. McKay took us for a short drive out to a field where we had our back to Camden.

Thursday. Heavy rain - in the evening a good snow storm falling. We stayed in bed all day. I sent in a note to the College.

Friday. Snow & rain. A good snow storm.

62 1902

Feb 12 To Carlisle 9.15 and 11.45. Cars
10 AM Lowell 10.45 Left Lowell 11.25
Carlisle 11.43. Left Carlisle 2.16
Lowell 2.35. Left Lowell 3.03 via
Bedford Boston 4.20. Day
clear & bright Thu abt 20°. One
pine at least 100 feet high.

March 13
Thursday Day warm - spring like Thu 57°
6.30 AM. Song sparrows about the
house. Blue Birds seen by rail.
Last Friday near Paul's Bridge.
The Acer dasycarpum at Roxbury
comes out again - usually late in season.
Hower today & I never have seen
it so early before.

March 30
Sunday. This remarkable March culminated
in a remarkable Easter Sunday.
P.M. Walked in Haverway place.
Saw 3 flocks Field mice, Centropus,
moths, checked Alder, grasshopper
water spiders, frogs & toad.
Day warm & pleasant.

April 2
Wednesday. Waked up Blue hill with Mrs.
Furness & after Roxbury, got also.
The hybrid oak was killed down in
Rhodora for May 1901. Saw first
Peeper flycatcher, the Plover.

April 13
Sunday

E. Williams came out & we drove to
Green St. I sent horse home,
walked to Bloodroot place but found
none, then along by woods & edge of
brook to Green St again North of the
now-Saul Cabot place, then by
Green St & Green Lodge Road to Fox
Isarow bath & thence to Mr. Hemenways
Cared. Here found one flower of
Potentilla sumida, & *Equisetum arvense*.
Then home thro' New. Can. to Haystack.

April 20
Sunday

E. Williams came out 8.15 train & we
drove in Reservation to the Park place
near Chickatawbet & by Bouncing
Brook path across Never Frys brook
out to the back road of Brantree &
thence by that road to the Reser. road
over Chickatawbet to Randolph
Turnpike & home by Hillside St
round Blue Hill. In a warm
exposure on path near Never Frys brook
Viola fruitriatula Smith in flower,
also two large tussocks of *Kalmia latifolia*
near the brook, *Carex umbellata* &
Panicum large enough to walk on.
on Chickatawbet road a beautiful
Viola blanda in full flower and
very very fragrant. *Scrophularia*
pauciflora minor in flower.

1902

May 11
Sunday

Drove with N. K. over same route
in B. K. R. as with E. F. W. April 20.
Rhus cuneata & *Viola pubescens*.
Got plenty spec. of the *Viola*
blanda on the Chesatawaut
roadside E. of the new place,
same place as with E. F. W. April 20.
The red spots on the stem & large
buds make me put it with
abundans of Greene tho. These
characters are not constant,
its very much mottled & striated
wax, warts are noticeable -
distinct from *Viola blanda*
of wet places.

1902
May 21

into town 6.19: at ~~Base~~ ^{Smiley} Place
station met Geo. Proctor, Will Richard-
son & Munroe & we took 7.04 train to
Warren: pair of horses, open
rocker drove us thro. Springfield to
Hollars, loaded team with two
men following took cars down
to ~~the~~ ^{the} ~~grove~~ ^{grove} ~~in~~ ⁱⁿ ~~the~~ ^{the} ~~grove~~ ^{grove}
pine grove: met the ~~man~~ ^{man} ~~in~~ ⁱⁿ ~~the~~ ^{the} ~~grove~~ ^{grove}
mills drove on again ~~to~~ ^{to} ~~the~~ ^{the} ~~grove~~ ^{grove}
reservoirs Pond near the ~~the~~ ^{the} ~~grove~~ ^{grove}
snow in connection & ~~the~~ ^{the} ~~grove~~ ^{grove}
again ~~to~~ ^{to} ~~the~~ ^{the} ~~grove~~ ^{grove}
the ~~the~~ ^{the} ~~grove~~ ^{grove}

on the full moon ranch of the Central
 N.Y. RR: took train for Palmer that
 dined in the RR restaurant, left 6.58
 on 17.04. Home 9.15. abt
 20 mile drive. South country at
 its best. It was the culminating
 day of a fine spring. Sunny,
 breezy, cloudless. Got peculiar
 moths & plants at the museum
 but went too shadily on the
 road to collect.

Sunday
 25 May

A.M. with E. F. W. to Green Lodge road &
 home thro Heronway land. Day already
 warm 78°. Did not find any
 sketches roses which we went
 out to seek. Victoria in full flower.
 Lamb & hungry day. Dr. Kite here.

1902

Chester
 Maine
 July 1st
 with William Brown & Collins.
 The first day's netting
 was very successful.
 Found a few specimens
 of *Stellaria* & *Iris*.

July 2nd

from the rain. Ther 54° at 3 P.M.
 As early as 7.45 - caught flies & put
 them in the light machine. After
 breakfast made a short walk on
 beach & found a few specimens used
 on the lower bluffs near by the hill
 was blue with it so we got an
 ample supply. Noted the peculiar
 petal, short involucre reflex &
 with an apical point or awn.
 On the ^{marshy shore} beach by the bridge got
Stellaria humifusa & *Irisolobus*
palustris. Found the large *Poa*
domestica near the Iris Beach
 The Corbett thinks it has been
 nourished by the old fish debris
 from the lobster pots
 since its vigorous growth

Found two non-flowering specimens of *Sagina nodosa* here & one of *Mertensia*:
Siphocampylus Raudii was plenty in the grass in little hollows of the bluffs. A very deep humus soil, rather spongy seems to be common in these rocky depths: The shore is certainly wildly rocky though.
 One spec. of *Taraxacum officinale* var. *halimifolium* with remarkable scaly involucre found here.
 We came here to two relocalities - but no plants in situ.

3 July
 7:30

Highest Ther today 72° & 58° at 0 PM
 The rain falling with early appearance of mist. Left Ukluksun at 1:30 & we drove behind a large-
 framed good white horse 15 p. all to Bay Brown with the same road, a mile.
 On roadside *Botrychium simplex* - *matricariaefolium*, & *Veronica* the very small form: these in a grassy moist hill side of road: soon we came to a large patch 150-200 feet square of *Androsace floribunda* the plants here are in a more
 ,
 but some are in a patch as big
 ,

July 4

The walk to route, along in most part
 to the boggy pond (Hotel Pond).
Drosera rotundifolia the real) + also
 at various points. *Carex Magellanica*
 in the bog, then over the hill to the
 mill, road to pond & saw mill +
 followed the brook to the salt cove
 at bridge - some by the road -
Stellaria humifusa, *Carex maritima*
 + *norvegica* + a *Ranunculus Crab.*
 joined into roots to a *Glaux*: this
 Collins photographed in the sun
 then I passed it. A curious
 prostrate *Fucus* like before.
 Also *Botrychium simplex*.
 We are now to lunch this the
 town - which was well filled
 with people for the 4th July sports.
 Horse race, *Belgique* + *Normal* process.
 + a baseball game between West
 Lubec + Cutler. The day was
 clear + fine, cool wind, ther 74°
 In we staid at home camp
 in the night - it was down
 to 60° "Blowing from the
 north" + clouded in a
 heavy fog in the morning
 + it was 68° at 10 am.

July 5
Sat.

Went to the Whiting Cove, 1000 ft. The
 as usual the trees 4 miles and north
 Whiting Cove + the road to it
 a big sphagnum bog with small
 growth of grasses + low shrubs. The
 bog, 1/2 mile across. All the
 former trees + shrubs are in
 young stage + some few stumps.
 The peaty sphagnum was 10
 inch high and with moss
 a surface. The plants were all
 brown in sphagnum. The Sphagnum
 looked green but was brown in the
 left side. Sphagnum - moss
 like Sphagnum, Sphagnum
 subulacina tricola. The moss
 back up 12 inches + after that
 came low plants + some shrubs
 took row boat with Capt. Lecky
 to the light house + some at
 entrance of harbor. To see the
 many plants in the rocky cove
 + in the little marshy marsh. The
 bridge on the light house + the
 was Montia which is the
 the island + all the big + small
 Crataegus + some other. The
 also gathered 1500 sphagnum
 moss in a distribution.

Left the boat for
 the harbor +
 the light house
 + the cove
 + the marsh
 + the rocky cove
 + the little marshy marsh
 + the bridge on the light house
 + the was Montia which is the
 the island + all the big + small
 Crataegus + some other. The
 also gathered 1500 sphagnum
 moss in a distribution.

took several of the little *Plantago* were
quite ripe. We came away at 5.30
after admiring the beauty of the shore
& sea, & never saw its equal for
a beautiful sea shore spot.

July 6
Monday

Monday I walked in the woods back of
hotel looking in vain for *Pyrola minor*.
Mr & Mrs F. S. Collins came by 11 o'clock
& we had an early dinner & all in two
boats to the other shore & Western Head.
There was more wind than yesterday
- they soon landed us on the other
shore & Williams & Fernald got off two
- we walked the edge & here at one
place plunging thro dense spruce
thicket. A small damp swamp
at one place & just before the head
which is an island at high water
I got *Carex canescens* the real thing.
The others all crossed the wet seaweed
to the head but I had Capt Ackley's son
in one of the boats pull me across the
entrance to the harbor by the island to
the other shore & I came home thro the
road & village. The others on their
return had not added anything new
to the list.

202/9

July 7
Monday

At the Miller camp ...
 the rest of the street ...
 passing last house ...
 got to a high ledge of rocks ...
 path did not bring us out ...
 afterwards Fernald went alone ...
 came back home. He found *Polypodium*
Cordipolia & *Lycop. arnot.* ...
 We came home to dinner ...
 joined us: in PM we were ready
 for our departure I had Fernald
 J. F. Collins to Machias & J. F. ...
 a few days more at Castle. I have
 pair back to Gardiner to East Machias
 where we had a rest very good supper
 & took train at 8. ...
 Boston 7.25 PM ...

7.5.1912. Wed. F.S.

11 July
Friday
Here 6 Am: very quiet night.

I walked up the road towards the cemetery into the woods at base of the ledges. Was surprised to find so much alms vireo's & took several other things & some ferns.

12 July
Sat.

went via 107 R.B. further shore above the shipyard road by the cottages in the woods - so by road to Belfast road. On shore a very stout Poa, reminding me of the Dublin Poa, but with a strongly compressed culm. Took several specimens: also in the road dug up some more fern specimens, which I carefully packed in 2. At 4 o'clock Miss Sarah Croker - Miss Price came to call. They are at the new farmstead Ho & came by Trolley.

13 July
Sunday

Got up early & at 10 o'clock went down to the Methodist Service church - brought back some Galium mollis & new fast ferns, also one or two more. I was very busy with it. A detached heart reminding me in some of the value of the plant. Day fairly hot. Ther 80° in shade.

July 17 - 1902

July 17, 1902
Thursday

Left home 6.15 AM on bus for
 P.O. on the bus, the 5 - bus -
 came to Brandon & Friday.
 Policy on the bus but was a
 lot of rain. Lots of clouds but
 some the rocks - great very slippery
 in my boots. Came down - lots of
 at base of the hill on west side. Lot
 some of the rocks of the hills very
 elegant specimens of the
 P.M. we all went to the hills
 in Caldwell on the Friday. Some
 of the specimens were seen,
 I have been good specimens of the
 I took the. Also some of the
 shells, - nearly all the
 few other things. On the way
 I had some

July 18
Friday

Left home at 6 AM on the bus
 to the Big Quarry on the hill
 was yesterday for the first
 coming out about the hills
 and the specimens were seen -
 I was very happy to see
 good specimens of the
 most of the that were seen. Also
 specimens of a very large
 fossils: the fossils at 11.00
 some of the fossils were seen

July 17
1891.

... Mrs. Barron came
9 AM in Rowboat to return the dolls for coll.
PM We all drove in two carriages to
Rockport & returned by Calderwood Lane.
Horis alba, *Adlumia cirrhosa*,
Habenaria hyperborea, & what I
saw called *Hesperis*, a much broken
large thickleaved crucifer.

July 20
Tuesday

Dull & often showery day. Walked a
short piece up the Mt path in the
but foggy rain sent me back.
Stemella tridentata. PM at
4.30 with Mr. D. to the river bank
near woolen mill & crossing a
log bridge took path thro woods
to road near Iron factory. *Deli-*
boraba repens, *Streptopus roseus*
... ..

Wednesday
July 7.

Came here by Boat - to Boston car.
at 7 this AM. PM took electric
to Rockport village & walked abt
a mile down the Beauchamp point
& in rocky woods where
found *Adlumia* when here before.
got several things & pressed *Viola*
subserena & a healthy *Artemisia*
Sparganium angustifolium *Trionidga bowringii*
Pterocarya & other nice *erophyllus*
Five large *Solidago squarrosa* three

at Lincolnville Beach some by the river. collected a few *Saxifraga* like structure - *Raben*. *Physalis*.

Aug 10
Friday

Walked to the PO in evening but saw a dozen or more plants *Saxifraga* *Scarola* took me to as I did not find it a record in any Maine list shall collect more when it is in better condition.

Aug 12

Walked to the steamboat wharf & had a bit in little fresh water ditch got a few species with long stalks & ordinary. One on a street in village two good *Ugulus nigra* tree in fine fruit, about 30 feet high & spreading rather than ascending. Another patch of *Saxifraga Scarola* behind Mr McKays paint shop. Rain began at 10 o'clock & I came home went to Boston by evening boat City & Rockport

Aug 15 Wrote for Boston at 6 am by the City of
 Bangor. Walked before dinner in
 the woods, near house & onto the pasture
 above Ausden's house & so to Belfast
 road & into the field again opp wharf
 St & so home. *Haberaria hiduntata*
 & in pasture a *Gaylussacia* not yet
 ripe but with plenty of green berries
 PM rainy

Monday
 Fine clear day. Had went to ditch
 near steam boat wharf & got
 specimens of the *Cyperus* growing
 the wall of the ditch.

We walked up Mt Battie with
 Mrs. L.R.W. & Miss Dickey who came
 last evening. A very magnificent
 view. In boggy place on top got
Eriophorum & noted how late
 some bushes of the *Gaylussacia*
resinosa were in fruiting, having
 still young green fruit. Picked
 some dozen or more things

Went home with Mrs. Barron

Camden
1902

- Aug 30 Arr this morning by Boat. J. Clark on Boat to going to North Haven.
- Sept 1 Walked to Sherman Point - collected a few things.
- Sept 8 Home on Boat with Ad. Fr who came money Sept 6, + also with Linslain who came Sept 5.
- Sept 12 Arr in Boat to Boston.
- 13 called on Mrs A L Crocker - saw *Adiantum pedatum* in her herbarium.
- 16 Came home by train

Nov 12 left Boston ^{North} with Hal 5:30 arr Adam. 2.15 via Pittsfield. Had Train (pair - man) + arr Savoy Hollow (Bridgman) 7 miles by south road thro West of Berkshire at 4.20. Nobel. Kestley Mr Barber. Next morning the 11th drove 1 1/2 miles to the Meadows in charmonut road. Found woods two *Phagnolon* like masses. One *Verbass dentriculatum* with a fine fruit. After 2 days drove back to Adams to 12.50 then took 2.00 back to Pittsfield. After we drove through at the 11th road. Found a *Phagnolon* in the woods. Found 2.00.

1903

Sept 21

... will say in Maryland, but
... elsewhere.

... & say on Walter Faxon came
on 10.15 train - we walked down

Sept. 25, 1902

Comden (Me)
Black Walnut Tree
Mr Frank A. M'Phaus
door yard - near
Hoswiler Road -
3 1/2 miles from the
village.
This one of the best
selected places in town
David Harrington
first owner.

Swallows,
Roadway
the
to the
side in the
then to the
ed in the
enlock Grove
I none
... in town
... Debarre
... some up
... all ...

at 4 ft fr ground
growth is 10ft 4 inches.
spread 74 x 70 feet
height estimated
at 90-100 feet.

The white notch is
7 ft fr. the ground
& is a stable beam

1903

Apr 21 11:00 am ...

... 2 boxes ...

with white cloth.

Tree forks at 10 feet with two very large upright ~~fork~~ branches.

Mrs John Boardman is also an U.S. ...

Mrs Frank a ...
Midway Heights
Camden
Mo

see photo & article.

Mrs Parson's
Book on Texas
abt the ...
at ...
more ...

1953

April 21 Fine warm day in Piquette, but
not so warm as elsewhere.
Chris & Fayou & Walter Fayou came
on 7 10.15 train, we walked down
the track to Green Lodge, Swallows,
& then by Washburn Roadway
to Dedham Road into the
fields just below & to the
hemlockes: fine Insects in the
woods. Lunched & then to the
Big Spring, searched in the
wetlands below the Hemlock Grove
for Petasites but found none.
Copsis, Galium, Proles in Brown.
Home at 3.12 from Dedham
train station & they came up
to the house & staid till 5.19.

1903

Melbury of

Tuesday 29thSept 30
Wednesday

Left Boston 10 AM with Hark
Ma & Sinclair & our West Busse
at 4.35. Will meet us to-
morrow & we were at the lake
before six. Mr & Mrs Crane
of Somerville, the latter Mrs Richardson
sister the only guests. Tabled
early after walking a bit on
the moon lit piazza.

This morning have walked on
lake road: Ma & Sinclair to
Roaring Brook, Hattie & I to Echo
Rock. Took half a dozen photos,
the day being exceptionally fine
after a rather cold night.

Took a slide on Mt Kos-tos
place in May last. I am
sorry to see the base. This base is
not as plentiful as in June 1901 &
I am afraid is doomed to extinction.

PM we all went to the ridge in
pasture overlooking Little Pond - the
Bog & while the others luxuriated in
the brilliant sunshine I gathered
Lycopodium clavatum & *complanatum*.
specimens of the *clavatum*
had for one to five branching
pedicels per plant & of the
complanatum from four to ten.

of the complanatum there was no regular fashion ~~style~~: monostachyon growing on plants with polystachyon habit: also a sterile branch in two instances was growing ~~grew~~ out of a fertile pedicel.

In complanatum a proliferous apex to several fertile spike was new to me, & these shoots had leaves, unlike either the sterile branches or the bracts of the fruiting spike. These growths varied in length, in ^{only} one case ~~only~~, fully as long as the spike. The appearance was very singular. We searched for the fragrant fungus but could not perceive any.

Oct 1
Thursday

Day cloudy, after yesterday's
brilliance, but hardly any rain
fell till after dark. Mattie
remained at home, but Ma &
Sinclair & I to Cold Brook path.
Careful search revealed
Vacc. vitis idaea, but growing
in a very straggly way as if
attempting to live in spite of too
much sunshine & dryness of soil:
however it covered more area
than in June 1901. Found a
Mitella nuda in fresh young
flower & pressed it.

PM Sinclair & Ma & I walked to
Westmore & back, I started out
later & met them abt. a mile
beyond Roaring Brook. The road
has been mended at the Drinking
Mough at Roaring Brook & an iron
rail put up on a good granite
wall on the lakeside. Found
Verbasicum phlomidis & a reddish
Bryum wh. I shall send to Collins.
Chloogon in full flower & *Equisetum*
scirpoides in fruit.

Oct 2
Friday

Reached & fixed yesterday's plans - & then
went to Long by the swaggle & with Sinclair
to the spring & back to dinner by
the new corduroy wood road thro' the
wet woods below Little Pond Bog.
In P.M. we all went to the Pasture
Ridge & sat awhile in the Sunshine
& then "invited" mother over the
spruce log fence & thro' the woods
to the above Corduroy Road & so
out on the Highway & home, thus
giving mother a sight of the
"unanticipated" woods below the
Little Pond Bog.

Oct 3
Saturday

We all with Mr. Richardson
partook of Sinclair's Camp
Dinner at 12.30 at the end
of Cecil Brook path. I took a
dozen snap shots of various
portions of the scene. The cooking
was excellent, the day fine &
the views of lake & left grand.
after coming home I went
out on Mr. Fox's Knoll & gazed
about & thought of the Hermit
Thrush & finally gathered some
various Lycop. couple. & so home
at sun down.

84

The leaf of the Fir Balsam has no evident petiole or pedicel, the round foot of the leaf leaves a distinct scar on the branch when removed, but nothing like petiole of the spruce leaf: and yet the petiole of the spruce leaf is no petiole at all as it does not belong to the leaf, but to the bundles of branch structure, being an evident apex of such bundle.

The leaf of Fir Balsam is also softer & less sharp, pointed than the spruce. When spruce leaf is pulled off it often breaks down & brings away part of this fibre bundle constituting its apparent petiole or stalk, a fir balsam leaf never breaks the surface of the branch, it simply leaves a scar.

The leaves of the White spruce are sharper pointed than the Red, & stand more square on the branch, hence feeling sharper, the red spruce leaves have an inward curve which makes them feel much softer.

when present in the hand, & this altho
the Red Spruce has a more square
et cetera base to the leaf than the
white Spruce.

THE WINTER OF 1903-1904

The winter of 1903-1904 will long be remembered both on account of the large amount of snow which has fallen and for the low temperatures which have been experienced. It has proved to be a so-called "old-fashioned" winter and, certainly, it will tax the memory of the oldest inhabitant to recall a winter with a greater snowfall or a longer continued period of sleighing.

At the Blue Hill Observatory, during the three winter months of December, January and February, 83 inches of snow have fallen. During November there were 4 inches, and so far in March there have been 6 inches, making a total, from Nov. 6 to date of 93 inches, or nearly 8 feet of snow. This is the largest amount yet recorded in any winter since the establishment of the observatory in 1835, and is more than twice the average depth of 45 inches, the fall during January, alone, being 43 inches. Other snowy winters fall far behind 1903-1904 in snowfall, the next greatest depth recorded being that of 1893-1894 when, in the three winter months, 64 inches fell. 1886-1887 follows with a total of 62 inches, while 1902-1903 has a record of 61 inches. 1903-1904 also holds the record for the number of days on which snow fell, having 27 to its credit when one-tenth of an inch or more fell, and 10 days with less than that amount. This winter is closely approached, however, by several other years in this respect, there being 26 days in 1886-1887, 25 in 1887-1888, and 24 each in 1802-1893, and in 1900-1901, when one-tenth of an inch of snow fell, the average number being 18.

During this winter snow has covered the ground for a longer consecutive period than ever before recorded in this vicinity, during a period of twenty years. In December, from the 24 to the 9th, the ground was covered with snow varying from 1 to 4 inches and good sleighing was enjoyed, while from Dec. 26 to date the ground has been constantly covered, the amount varying between 4 and 24 inches. The maximum depth of 24 inches was recorded on Jan. 9 and again on Feb. 15. At no time between Jan. 8 and Feb. 29 was the amount on the ground less than 12 inches.

Not alone in snowfall has this winter distinguished itself, however, while not the coldest on record yet it takes its stand among the coldest, being the most severe since 1875.

The cold weather began to evidence itself early in November and has continued with few interruptions until the present week. November as a whole was not an extraordinarily cold month, owing to a very warm period during the first week, but the latter part evened things up by being from 10 to 20 degrees colder than the average for that time of year. December proved to be the coldest December since 1890 and January turned out to be the coldest month of that name since 1803, while February, not to be outdone by its predecessors, kept up the good work by being the coldest February in nineteen years. The average temperature for the three winter months has been 20.8 degrees, and this has been exceeded only four times in fifty-five years, 1852, 1863, 1873 and 1875 being colder. 1868 was the coldest winter in this vicinity since weather records began to be kept in 1849, being about 2 degrees colder than this winter. January, 1857, is the coldest month on record, the average temperature being 12.7 degrees or 5.3 degrees colder than January, 1904.

During this winter the temperature has fallen below zero fourteen times, the average number being five times.

On Jan. 5 and 6 the minimum temperatures of 32 and 28 degrees below zero were recorded at the Valler Station of the ob-

servatory in Readville. These are the lowest temperatures on record in this vicinity.

There has been somewhat less than the normal amount of sunshine. The wind velocity has not been unusual and there were no very severe gales. The wind direction was chiefly from the west and northwest.

L. A. WELLS,
Blue Hill Observatory, Milton, Mass.,
March 9, 1904.

1904

April 13

Sent Pres Porainer

2 sheets Mill 1st violet

2 " " Potamogeton
to name.

April 14

Left Boston 10.10 with A. D. Hodges for
Mayland: reached by direct road
7 miles to Concord; cold and
dry & instead of getting better
we had two snow storms, in
one of which our horses had
me all our lunch at 1.30 standing
in the fast falling snow.

Home to Concord 3.15 train.

Sally Krista in early A.M. & lots
of blue birds: the bright blue
of the bird against the blue black
storm cloud made a picture.

April 15

Sent Baker Ames

my Mill Coralloid the
curious regular one - my
islets - Botrychium
to name.

April 15

Rec'd from A. S. Hitchcock Washington
the Melloughby Agrostis sent
me a few days ago.

1904

23 April Fine day. accepted Mr Levitsons invitation to join moss chapter in walk to Prospect Hill Waltham. Collins came fr. Providence at 9.19 we took 11.19 train in town + 12.24 to Riverview. about 25 ladies + 4 gentlemen, the above 3 + Mr Huntington of Amesbury whom I was glad to see. The ladies included Mrs ~~Clapp~~ Clapp of Docheater, Mrs Stevens the daughter in law of Brookline Miss of Framingham + others. Got the commoner mosses + Huntington bided *Hypericum chrysophyllum* which I then collected.

Mr. Huntington gave me *Campylostelium saxicola* from Amesbury.

We got 5.27 train home + 6.27 to Readville.

May 3
Purgatory
Faxon's

met C.E. + Walter Faxon on arr. of 9.15 train + by Minslow place to Green Lodge. Sent Wm home + walked thro' Washburns to Hemlock Grove + Big Spring where lunched. Day brilliantly warm. Ther 80° + we enjoyed every moment. Brought home "Greens" *Cladonia calustis* + also Water-Cress from Spring brook. Saw Brown Thrasher + the Faxon's heard others. Wm came for us Deo Lane Road at 3: A.F. went by Elm. C.E. + I staid to dinner

1904

Lexington & Burlington

10 May

with C. & Faxon 9.09 train to Lex. where Walter F. met us & we walked towards & to Burlington: had our lunch by cold spring in pasture meadow & then by a wood road back to Revere & Lexington going by Mr Simons' ho. an old resident. The wood road came out on the Red Brook Road just beyond Simons' ho & close to Brook. We had already passed a lone triable ledge where Red Earth & stone was once ground for Red Paint. We turned down Revere St to cross Davis Hill near the Golf Links: Fire had gone over the hill within a week & we did not get what we were looking for i. e. *Silene Pennsylvanica*, but did find *Ranunculus fascicularis*, which I have not seen growing at Lexington since 1863. We had a delightful day after yesterday's rain. C. & F. & I dined at South Station & home 7.15.

1904

89

15 May
Sunday.

with Sinclair & Mr. Clayton to walk
in New River; by West. Road to notch in
Hancock then a trail path till turn
with left & came out on the newly
located road to run by hillside to
McGowan's Farm. The trees being
mostly cut for the whole length of
the road but no surface graded
or even leveled. We walked along
the path between trees & at home
found *Juniper*, *Pinus* & *Thuja*

pubescens & *anemone*, both will
be right in line of the new road.
The day was cold with a misty
East wind but good enough
for walking.

17 May
Tuesday

Levington & Burlington -

Took the 9.14 train but C. Faxon
could not go: met Walter Faxon
at Levington station & we took
same walk as on the 10th only
in reverse direction. We had
a view particularly to see the
prostrate *Juniper* again,
& we found the *Juniper*
after a little observation

90
wandering in the scrub oak &
Burlington: after studying the
forms above I expect it is
not *Sabina procumbens* but
a fastigate *Virginiana*. We
found white *Doylea pedata*,
white *Rhodora* & a few petals
Ammonea nervosa. Tony, a
little black spaniel dog, that
often wags with the Faxon
though not belonging to him,
went along too. We crunched
over some meadow spring
& after getting back to the
village strolled into the
ancient cemetery then to
Mr Faxon's house, where are
most of his Shakespeare Books.
Home by the 5.10 just as rain
began to fall.

1904 Willoughby Vermont.

23 May Left Boston 10 AM with Hook & Ma J.
we went to Burke 4.33 & as it had begun
to rain Will Richardson got covered
carriage for stable & we rode up in that
with driver while Will R brought traps.
Mr Hall & his son for Lyndon here for
the fishing.

24 May with Ma J to Picnic House & 1st slide.
I went to base of cliff found *Saxifraga*
oppositifolia in fruit as in former years.
We came back thro the woods & I
found 3 plants *Diaca palustris*,
also on cliff 1st slide a pure white
Primula mistassinica.
PM we went to Marl Pond & Bag:
Rhodora in bud & young flower.
fall. new last winters lumber road
to brook & bars at foot of Miss Cobb's
view pasture. fine *Streptopus roseus*
& *Prunus Pennsylv.* and very large
catkins of *Salix lucida* & on
roadside by Big Boulders, small
staminate pl. catkins of same (*lucida*)
New cut out Newlock hay trough
at the snozgle. after coming
home I to the wood following
up the Barn Brook & found a
10 or 12 ft fall coming over
the ledge & several interesting

looking mosses on the wet rocks & old logs & branches. I staid exploring abt there for an hour or more, for where *Myurella Careyana* is found one expects other good things.

25 May

We waked thro Sugar Grove behind the house: I never saw before the mountain path changed into a heavy brook coming from that little spring we usually drink from before begining the ascent. PM I waked by short wood road - at West corner of Farm, but it soon ended & I followed a small brook into Cheney place & then hastened home on acc of rain wh' continued all day & all night.

26 May

We waked to Echo Rock & back. *Vitis Edsae* still recalcit. *Chiochus serpyllifolia* in full flower. Not over half a dozen *Orchis spectabilis*. Got a few mosses & a curiously large *Barbula fortirosa* like.

PM to the ridge back of Hotel & then down the road & into the Little Pond.

Friday
27 May

Boq where *Amelanchier algaropsea* & plenty of *Kalmia glauca* in bloom.

Am to the woods opp the house went up Laundry Brook to its source, on a large rock collected what may be *Uckera complanata*, also some *Myurella julacea*? & *Rhacomitrium Ludibium*? a fine moss place up there.

P.M. went down the road to pasture & brook near Golf Links & found more *Equisetum pratense* & have sent some to Eaton. Also *Cyberes. pubescens* & *Prunus Virginiana*: searched the cedar swamp near the pasture for any *Saxifera* but saw none. A cold windy but fine day for the woods.

Saturday
28 May

This AM walked to Lake shore beyond Roaring Brook on the Lake Road. About 100 yards this side Roaring Brook found what appears to be *Antennaria plantaginifolia* not on my list — The *Eucalyptus* seem to be in fine shape & I shall try to find a set of 50 or more. Searched for *Cyrtopodium aristatum* but without success.

944
I then went down the road & beyond
Sally's house entered Listeria Swamp,
after much search in debris of
cedars & other fallen trees found
Listeria Spring, but it was a
sad sight: the Spring boxed in
a wooden cage & with a dead
jumping field mouse & a dead
frog, my heart was sad to
look at such a sight & compare
it with the same spot five years
ago. I crossed the swamp obliquely
no longer a cedar swamp &
came out at lower end of Golf
pasture. Came home by
same route as yesterday &
dug up some *Equisetum*
pratense in field, got also
a baby *Ophioglossum vulgatum*
but could not find another
picked some of the rose root
yet in bloom in Phillbrook's pasture
near the old cellar (this not on
my list) and on the highway
found *Amelanchier Canadensis*
wh. we omitted from my list
because I had no specimen; prob
I shall get first all I list
on my cards & in blank books.

1904.

95

Sunday a very wonderfully fine summer day, &
21 May a grand drifting day. After renewing
all my dried cracked to the July Slide
and part way up & after dinner
to the corner of Mrs Richardson's farm
by the Stevens where is quite an
Emuseum patch & then thro the
woods by all the Springs & brooks to
the Suzzler drinking place to home.

Monday walked in Am to Sall's house had
31 May. talk with him abt Oil Cedar & to
the further side of Wolfed & Brook
coming off roadie ridge in Philbrook
Sackure.

21, went along Lake road to Echo
Cock & back: got several varr
of Fragaria & also some others
to carry home, nothing new except
a rose evidently come off the
cliff with *Astragalus* & *Carex*
Scirpoides but instead of hemp
unwoth like *blanda* it has a good
supply of prickles, but the foliage
looks like *blanda*.

1904

11

Monday
Tuesday

We went down to the brook & shot
insurance specimens. The stream is in
the hollow, but no snow except in
the woods.

We went with Will R. down the road 1/2
miles to the Cheney Place & while Will
fished the brook I explored the hill
& adjacent Cedar Swamp: got *Parex*
& *antenna* in the field & we found
the *Calypso* that Will R. had noted
the other evening while he was
fishing with the ball of *Sepedon*.
We also found two other *Calypso* nest
& while on way to Scopus di. Bay
found *Sunilacina trifolia* in
plenty on one sphagnum covered
mound: this has not been
seen since Churchill collected
it somewhere near the K Bridge
not far from this present
place. Then after considerable
inquiry of the Hopkin's who has
lived on the farm now some
six years we found the old
Cedar-Swamp path, now
more a trail than a path over
grown over brush & trees - most
places were very muddy foot
that had to be used to get to the

than in Texas, E. & H., I named Jacopeides:
 we found it at last an opening some
 400 yds from our intended bet. before we
 reach the brook opens into a grassy
 shot, ending at a pond that well
 recognized as one we had passed
 half an hour before. The Lonicera
oblongifolia was in bud; but
 in the rock crevices here I
 got Asplenium & Sparganium in fruit
 & a few eight paper bags full.

On our way home just before
 reaching the four bridges I saw a
 plant, plumbagifolia by some
 stones thrown out at the roadside
 & saw it was some Nettle (Urtica)
 & so new to my Mellonghby list.
 Will get some 13 trout in the
 fish -

1904

June 1. A rainy night & cloudy threatening day
Wednesday. Took care of yesterday's plants
& water from Scorpioides Bog.
Then went over to Cheney
corner of Mrs Richardson's land
& got some of the *Equisetum*
there for study at home.
P.M. packing &c for our
return to Boston tomorrow.

Thursday
2 June We all to W.R. Junction by 11.30
& after dinner at station to
F.E. Alders & home by the
2.43 express. Ra & Mad re-
mained over night & came
home on 3.30 next day.
Found in F.E. Alders' garden
what appears *Rumex*
Patentia sent her from
New Jersey & spreading
now quite rapidly.

June 12. Kattie & I drove to Milton Post Farm, Mr. Sandford in charge & then thro Col. Russell's, over Chickatawbut & out by the Braintree wild road by edge of Reservation, Braintree Pond & thro Reservation to hillside & round So side Blue Hill to Canton Ave home. very cool fine June day.

June 15 Lexington & Burlington

By 9.09 train with C. E. Faxon & Alfred Redder to Lexington and Walter Faxon met us at train. We walked by road (Hancock & Adams St) to Burlington; in the brook by old sawmill handsome *Ranunculus*, *Menophyllum* and *Callitriche heterophylla*; at our lunch place by the cold spring in meadow got some of the carry gathered 3 weeks ago when young, & I think it may be *C. siccata* - Not far along the road from this place we turn in to the left & by a cart path thro a wet pasture come to the *Juniper* ~~prostrate~~

which Rehder decided was a peculiar "Virginiana" but its fruit or "recurved peduncle" must make one look for other distinctive characters: the strong odor of Sabina var procumbens was wanting in this specimen so that may be after all a noticeable feature. We kept on thro' the scrub to the Pine woods or wet pasture had our lunch there. A small & almost capillary Carex varia & Myosotis laxa. Then back to W. Fay's woods over Davis Hill; a peculiarly long leaved Carex Pennsylvanica & another carex like muricata.

I took along with me. As Rehder had never been in Lexington we after a short stay in W. F.'s library visited the museum & the Town Hall to see Sandharris' picture of the Battle of Lexington.

1904 Brandon Vermont

July 12

Came here yesterday with H. Mat via Keene 11.15 to 5.10. Fine met RR cut near Westminster Mass to examine. Scenery not so fine on the Rutland RR betw. Chester & Holly Summit as I had been led to suppose.

The marble cropping out in pastures looked very new & strange & Rutland, Proctor were all devoted to the trade.

We are at the Brandon Inn rooms 49, 50 & 51 very comfortable walked after supper along the main street beautifully shaded with double rows of maples: houses unpainted very neat: wide roofed old-fashioned cottages, the rule, with one very steep pitch narrow roofed cottage. Evening high very warm & still we remarked the absence of mosquitoes out doors, tho all our rooms were well screened.

13 July.

Members of the U. Bot Club began to gather at the Branison Inn at noon, & Pres. Branison & Prof. Morse of Burlington were in the front party. Carriages were got ready after dinner & I was in Branison's one drove to Silver Lake, walking most of the way in the ravine where runs a beautiful brook — where I found *Asplenium angustifolium*. I had seen the notice of Mrs. Buckley's death in a husband's paper & had telegraphed Mrs. Buckley & I could think of little else all the afternoon. A heavy thunderstorm after we reached the Silver Lake Hotel. Prof. Perkins present, also Mrs. Terry of Smith College — Maria Downing. At the evening meeting I called the attention of the Club to the Hellenagh P. S. matter. A committee was appointed of Pres. Branison, Prof. Morse — Mrs. Sawenpoint. The Hotel at Silver Lake kept by a Methodist — is not as good

Dr. H. K. ... Pittsford ... took ... Club

Dr. H. H. Swift - Pittsford Vt. took photo of Club
 + gave me some beautiful ferns of course
 + photograph

as well as the perhaps the sudden arrival of 30 or more people may have tried the landlady's resources. However he does not sell liquor or cigars & no doubt has a very quiet household. The wood drive is remarkably fine & the place may be a little "nobouk" hereafter.

This morning while the others went to Woodsalme Mt & Lake Dunmore I drove home with a Mr. Briggs, a young man who was returning to Brandon; arrived at 10 o'clock. Found telegram from Bennett Kenton that the funeral was at Danvers today at 11 & the funeral at 3; the train connections are so very bad that I reluctantly gave up going to Hadley.

On walked with Hattie & Mad to the Jewell; but could see nothing to be considered worthy of notice. Had to take the ice part of fish on trust having no thermometer to lower down thus by the temperature. A fine afternoon with cold breeze

July 14. We drove to Lake Dunmore had
 luncheon at the Mt. Spring Ho.
 by side of the lake. went out
 not by the regular stage road
 but over the mt. road with
 views of the Adirondacks & on
 coming back over a piece of
 mt. road near the lake which
 led us for half a mile or so
 along the shore of the lake at
 the upper end & then rejoined
 our morning mountain road.
 Spaefen Silver Lake is a bot-
 anical ground; the day was
 not at Dunmore lake side, tho
 a cooler breeze blowing on the
 hills. Found a *St. Malva*
 many-branched fr. the ground
 that hardly matches *Malva*
verticillata description.
 Lake Dunmore not as pretty as
 I expected - not to be compared
 with W. Longley. The various
 mt. limestone cliffs on the
 roads here suggest interesting
 plants. We reached town
 at 4.15. Weather rather
 breezy with the day.

105
July 15 A.M. went to small ledge hill
back of the Episcopal church, got
fine aspl. ebeneum & a carex I have
not named.

P.M. we all drove short trips on roads
abt the village & to the Marble
Quarry where the foreman explained
the methods of cutting & splitting the
marble: they are now down
abt 60 ft & the lower marble is
finer & whiter. The blocks are
about 6 ft x 4 ft. On rocky
ledge got Arabis & in a damp
place *Pyrenanthemum rusticum*.

Day rather warm & cloudy but
the expected rain did not come.

July 16. We drove to Silver Lake betw. 9.15 &
11.15. The lake lies in the town of
Leicester while Dunmore is in
Salisbury. Staid there to dinner
& got a few mosses. On the
road home & in the wooded ravine
got *Aster puniceus* in full
flower, even an old fl. spec. it
might be called. At Forestdale
the village near the fine roadside
spruce & beautifully situated lentic

106
church in the woods we visited
the wood working establishment
of
Newton Thompson Mfg Co
Brandon Vt
Wood Turners
A. S. Newton Pres.
C. P. Bump V. P. & Manager
L. J. Fortier Treas. Sec.

They make all kinds of turned
boxes, trays & trunks &
also small locked boxes.
I bought a dozen long boxes
to hold style pens for 15 cents.

Sunday
July 17.

At home in AM Day quite warm.
PM we drove the Sugar Hollow
road, going out on the Rutland
Turnpike to a mile S. Pittsford
& then turning off East by some
good pine woods over sandy road
& then North a very pretty drive
down to Brandon.

1904

Monday. Heavy rain & thunder in the night &
July 15 - quite warm day following.
at home in Am but in P.M.
I took 2.40 train for Middlebury.
very wide plains betw. Leicester
Junction, thro Salisbury almost
to Middlebury. Drove to Pres.
Branden's house $\frac{3}{4}$ mile from
station on a pretty knoll.
He & family had gone to camp
on Lake Champlain. Then
drove thro village to College
Buildings just over the
grounds. The new Catholic
Church built close to College
grounds has a fine tower.
Back to Bookstore & bought 10
vols. Chambers Miscellany for \$2.00
then walked to station
took 5.02 to Brandon; very
heavy rain en route but
ground dry at Brandon.

residence
July 19

From Brandon 10.15 a.m. to
Boston at 5.45. Day hot
& bright. Fine views of Monad-
nock & I noted small Hotel
near station at East Wallingford
Vt; this being the town where I
have planned to explore Aug.

7108
Metou

Sat. July 30. 1904. Drove to Massapeag Pond
& by Mountain St Sharon &
Bay Street home. *Phlox*
paniculata on roadside
by old cellar near Fried
Drakes house with its curious
1846 sign abt. shooting on
his farm. Also *Aster*
spectabilis just in flower
on Bay St and *Nepeta*
Cataria which I have
called rare hereabouts at
two old farm houses & in
road near them. The wind
blowing across Massapeag
reminded NWK of Under new.
The Potter place is unoccupied
for sale.

14 Aug Sunday: Drove to Norfolk Down's station
+ get some *Cassia chamaecrista* L

Wayside Inn

15 Aug 1904. With Chas E. Walter Faxon
 to the Wayside Inn at Sudbury.
 By 10.10 train to " station at
 10.50 walked along the road
 intending to go to Nobscot Hill.
 but when we reached the Inn
 everything looked so uninteresting we
 ordered dinner & remained
 from 12 to 2.45. We measured
 the big Quercus alba & also
 the somewhat larger Q. velutina,
 and noticed the large Fraxinus
 Americana: Coll. a leaf at
 foot of Quercus ~~velutina~~ alba.
 Did not collect much: a fine
 aster patens & a flowering
 potatoe wh. some one had
 thrown down by the roadside &
 it had rooted & flowered. We
 walked to South Sudbury station
 to take 4.12 train home.

Got the cord with my measurement of the trees
 evening telephoned to Emily F.
 Williams who reached home
 yesterday afternoon fr. Europe.

Walter
 Faxon
 Dec 8. 1901
 note of
 the wood
 made

Q. alba
 17' 10 1/2" circ at 3 ft
 15' 1" " " 5"
 15' 7" " " 6"

Q. tinctoria
 17' 3 1/2" circ at 3 ft
 15' 9 1/2" " " 4 1/2"
 16' 8 1/2" " " 6 "

1904 Orleans: Cape Cod.

Tuesday By 7.38 train arr at Orleans
Aug 23! at 10.40: Mr S.W. Gould met
me with Team & we drove over to
Rock Creek Harbor & saw the
now small number of fishermen,
men getting quahogs & clams.
Mr & Mrs Gould are boarding
with Mr & Mrs Rowland Crosby
& I was made quite comfortable.
after dinner with the Goulds
drove over to Fozet & East
Orleans & to the 7 acre piece
planted Mr Gould owns: got
several plants & he took me
specially to see a *Peractemum*
by the roadside. The day was
very fine clear & cool.
at supper time we walked
to a bit of marsh just beyond
the Eastham line to see if
my shore birds had come;
here was *Malva Moschata*
as bright as any Red Iris.
In the garden *Marubium*, the
first I ever gathered.

Wednesday Aug 24.

Mr. Gould & I drove by the Bridge Road into the Eastham moors & woods, near Dr. Maurice Richardson's pond, where we could look across at his house & back blind from the artificially cut brook that flows from pond to Massachusetts Bay, but I suppose for the Herring. Was this place was the first *Coccyzus* & also young *Glycyphala articulata* which puzzled me for some time. Thence to the Camp meeting ground near which was *Antennaria ulmaria* in a door yard; thence across the RR. by a wood road where was fine *Tephrosia thurstonii* & *Thymus* to the raised lights, three low light houses built on the abrupt edge of a sixty foot cliff & which have been moved back to get beyond the reach of the waves; a life line from the edge of the grassy bank to the beach below, a deep dark color to the level.

112
moving waves reminded me
that not always are August
skies & weather so beautiful.
The view was grandly beautiful.
Thence we drove through woods
across to a glacial boulder
a single stone abt 30ft
in diameter & 10ft
high & nothing like it for
miles or indeed until you
reach the big stone boulder
at Rock Harbor, which we
saw yesterday some distance
off & on the sea there. Thence
we came thro the village & then
centre valleys by small
ponds & so homeward calling
on Mr & Mrs S. S. Harwood near
the Crocks.

After dinner we played *Trivial*
till time to go to the 3.20 train
which landed me in B at 6.22.

Monday with Auclair & Mad to Cape; he to
29 Aug Chatham, we for a noon lunch at
South Sea shore one mile fr. So. Wellfleet.
Wellfleet. many mosquitoes & very hot day.
large branched *Scheuchzeria herbacea*.
met Mr & Mrs Gould on train & he sent 15
shore birds to NWK. Home on 6.45 train
& C. E. Fayon here to dinner.

1904

Massapoog Pond

113 b

Sept 2 C. E. Faxon out here at 10 x we took
Friday my horse & drove to Massapoog
Lake & home by Mountain St
& Bay St. Lunched at farm
on Mt. St near North Easton line
in hollow near Cranberry
meadow. met Mr Drake
on Mt. St & his father put up
the sign on the old Drake
house which is as follows.
"Take notice. Whereas I have
sold to several gentlemen of
Boston the right to hunt in
my grounds. That entry
out these premises by any
other person for the purpose
of hunting with dogs or guns
are strictly forbidden.
Friend Drake

Sharon May 27th 1846. "

He told us that Mr Horse Sargent
of Beacon St & Daniel Webster
nailed up the sign. He
did not say whether it was
their composition.

He was himself an original
having been a soldier for
some years in the civil war,

6114
appears to have settled into a
state of quiet in his declining
years: he journeyed to Boston
last week (probably to the
G. A. encampment), not
having been there before for
twenty five years: he sleeps
in the old house & takes his
meals in his daughter's home
half a mile away. At the
pond opp Plain St in Bay St
we found plenty of *Coccyzus*
rosia but did not as I intended
explore all around the pond.

Aster spectabilis is a rather
common roadside plant in
the woodland parts of Bay St.
Home at 5 o'clock & C. E. &
dined here & we listened to
the colony of Katy Dids at
our front gate.

Willoughby Vermont

Sept 7, 1904 Wednesday.

Left Boston 10 AM yesterday with HWK + ma I: arr West Burke 4.50. I drove the pair of greys up here as Charles wanted to take up other passengers + trunks. Miss Carby of Stoneham Mass niece of Mrs Richardson came up with us. Day + evening very clear + bright. And the fine weather continued all today. Walked in AM with ma I almost to Roaring Brook: road full of funcoes + shadows very beautiful. PM we all went in Capt Averell's boat the keywaydin around the lake.

Deepest place 274 feet
 just about N. W. of the lower
 part of the Mt say two or half
 miles fr south end of lake

Every cloudy 24, but warmer
 than the cold clear last evening

1904

Thursday
Sept 8

Rain till 11 o'clock after which
I went in field opp the house -
found large spore *Equisetum*
pratense. In pm on the
Cold Brook path hoping to
find *Lycopodium complanatum*
var *Widdii* but did not
gather much *Lycop. arnotium*
branched to 14 times & quite
cup shaped in its growth.
also *Carex utrova* Schum.
& fine *Aster puniceus lucidus*.
Coming back on the roadside
opp. Cheney, lower gate into
the Spruce woods found
Lycopodium complanatum
of a very diff form from
Fernald's *flabelliforme* & I
picked enough for a dozen
sheets, only one however with
fruit: pressed it before
supper. Evening walk to Hall
at Glacier British Columbia.

1904

117 5

Friday
Sept 9.

am to Cheney Woods again looking for
Wibbeii but did not find it.
A curious *Meritha* in the wet
place near Cheney Boat House
large fine *Carex retrorsa* again.
It is the only *Carex* that seems to
flourish in September. After
dinner to the Pasture Knoll
found the *Wibbeii* but old &
yellow-looking as if something
had made it *Wibbeii*, i.e.
not as fine & good as real
complanatum: all the single
spiked plants looked sickly.

1904

Sept 10
Saturday
Am along the ridge opp the
Saturday house. Lots lots of
plants in the woods; it
looks now the best common
Saxifraga is here. Many
forms of *Aspidium* *ad-nigrum*
fine *Aspidium* *thelypteris*
in *Saxifraga* *partita* *Saxifraga*
clavatum *monostachyon*
which seems common here.

2 plants *Saxifraga* *partita* in
potatoe patch: 1 *Saxifraga*
in *Saxifraga* *partita*.

Sept 11
Sunday. A hazy doubtful morning slowly
cleared off into a day of wonderful
beauty. I walked up the Lake
Road to a point abt a mile
beyond Roaring Brook: & at a
little cold brook near there
could not resist gathering
a few curious mosses. Searched
carefully for *Eucalyptus* at the
place where found last fall
but did not see one: the
view across the lake with its
misty white caps was very
beautiful. On the way

119

home overlook Miss Carbee's ^{Mad}
who had walked to Roaring Brook.
Laid in the afternoon with Mad
to salt the sheep in the Golf
pasture.

Sept 12
Monday AM walked to Green Tunnel with
Mad calling at Katie McFarland's
at the Bishop Farm. Gathered
some of the Crataegus fruit
at the old abandoned farm &
sent it by mail to Prof. Sargent.
PM walked to Echo Rock.

Sept 13
Tuesday. a very beautiful day.
AM to the sugar woods & ridge
in pasture. Found Equisetum
pratense with even the branches
having ridges densely set with
spiculae & the branches have
so far as I have observed been
always smooth.

PM at home & walked with
Katie to the Cherry Cottage.
enjoyed the delightful air, sky
& view. Found in time remarkable
large Geaster with thick leathery
& divisions like cup, very strong
pericarpium. a curious buff ball

Sept 14
Wed.

Imp JW Payson & Imp A. B. Hambley
went this morning at 8 intending
to visit the St Johnsburg Fair
to day. I had walked up
the pasture path opp the house
& so over to the once existent
Spruce grove; now no longer
there but an overgrown mass
of young birches & waste. Then
home by ridge & springs &
brook opp the house to
Cheney fence & then down to
road.

Raining in PM & I read in Fortmills
La Pluralite des Mondes.
very good Carex tenuilla in fine
fruit near Cheney, fence beside
a big rock on roadside and
a clump of very vigorous
Carex retrosa on the lake
shore, which seem to have
escaped. Mr Cheney's mairis
devouring scythe: the roadside
& by beach are terribly laid
bare by the scythe.

Sept 15 A Postoffice inspector spent last night here & I was glad to give him my views on the abolishment of the Willoughby P.O.

It rained drenchingly in the night & fairly so early today, but I walked dry to Echo Rock between 10.30 - 12.30. Got a few Equiseta

on the Lake Shore beach, but did not find *Praterise* with branches roughly spiculate. *Rosa blanda* by roadside has small ovoid fruit with sepals reflexed persistent.

PM I walked to South view & then in pasture & by the pool or bog hole near the Elms. *Carex retrorsa* in fine shape also normal plants of *Mentha Canadensis*. What I found on Cold Brook path were simply specimens grown in shade & so loose flange. Spot *Equisetum arvense* also & some with the little tubers on rootstock.

Some hypnoid moss spreading over the flat areas of mud & a *Veronica* I also brought home. + near the Big Boulder on roadside a good spec. of *Equisetum sylvaticum*.

Sept 16
Friday

Mr Barremer Gale 79 & in the
Secretary's office at New Haven
came last evening & this AM
he & I & Miss Thomas of Los Angeles
went to the top of Mt & North.
Outlook: fine day with rolling
white clouds in sky. Did not
collect a plant.

PM with SWK & Mrs to the
South New home through
the pasture & road.
Evening Mr Miter came by the
late train from St Johnsbury,
having been in Limerburg.

Sept 17
Saturday

Mr. Miter was showing me
photos of White Mt scenery
in AM & we did not get
out till near noon when
we went only down the
path towards lake a very
short distance.

After dinner we went to first
slide & found many things of
interest us. *Parnassia* in
blossom & *Saxifraga aizoides*
Lobelia Kalinii & aster
Polyphyllus: I collected
some *Equisetum* probably

arvense or its var nemorosum on the rich earth by the side of upper part slide. Also *Alnus viridis* in fruit. We crossed the upper wall & climbed over the edge to next & slide & found more *Saxifraga oppositifolia* here so I thought it a good place to go fruit next spring. I collected also a *Panicum* & two other grasses & we came back down the slope at sunset.

Sunday We arranged & tabulated yesterday's list till nearly noon & then to the Ridge & round by the end (outlet) of Little Pond where I showed Miter the *Salix balsamifera* of which he took specimens. A Blue Heron arose from the Pond: after dinner we walked to the Sutton road & after much search in the much-cleared wet fields found one stunted bush of *Tharum alnifolia* which I had pronounced to show Mr Miter. Also in dry place on the

124
roadside & under bushes &
trees found quite a lot of the
true (I think) *Equisetum pratense*:
very conspicuous now by its
light color and the very
horizontal branches. It looks
quite unlike the arvensis &
its variety. We walked about
a mile on the Sutton road
getting home before the thunder
showers which closed this very
warm day. On arrival
learned that an eagle had
been seen flying rather near
the house, which confirms
my rather doubtful impression
that the bird we took
for an eagle the other day
when we had no opera glasses
was really that noble bird.
Caletia palustris in full flower
on the Sutton road, one fine
specimen. and a doubtful
Ericoshorum.

1904

Across Will Lake the Mountain
to the left is Bear Mountain:
middle one Owl's Head.
Little one at right is perhaps
Little Orford.

Orford itself has a perfectly
bare summit: dome shaped.
Side W. J. Miter.

after going up the Mt on Monday
Pm Sept 19. Mr Miter (who
went into the rocky woods
beyond North Outlook &
saw Orford well) says the
right hand mountain is
Elephant's, which indeed
others have said: he
showed me the whole of
Elephant's from the mountain
& what we see from the
hotel is only ~~one~~ the Head
of the Elephant.

Monday we went to swamp below
house & Marl Pond Bay for
Rhodora.

Sept 20

Home on the 4.08 with parlor car
from Newport.
attended Florence Barrows wedding
on Sept 21st 3.30 P.M.

126 1904

Wilmington Vermont

Sept 22° with HWK Mrs Edith & her children
arr West Burke 4.35. Mrs Richardson
not having recd our Telegram we
came in Stable Surrey - very
fine but cold night.

Sept 23 Ther 29° this morning & a very
heavy frost. On the water in the
boats at the Boat House was
ice one third of an inch thick.
morning we all HWK included
walked to Echo Rock & in the
afternoon all took the Long
Pond Drive. Telegram from
Sinclair that Hal will reach
Boston next Tuesday 7.30 am.

Sept 24 Began to rain last evening and has
continued practically all day, so
that we have been forced to take
our tramps on the piazza (70 yards or
rather my-paces) Read Conan Doyle's
story the Coomber Mystery, dealing
in pseudo-Indian philology, as to
revenge & delay of punishment for
a bad action.

Sept 25 Still cloudy & misty in morning.
Sunday I walked to Salls house before
breakfast. had my John Aitken
lute telescope of many years ago &

it gives better field & definition than any glass I have ever used my Goerz 12; have not yet tried it against my Munich glass. Saw Field Sperm Sparrows, Junco, Chickadees & Phoebe.

Rain till 11.30; then George & I walked to Cold Brook. After dinner with (na d) & the children to the Ridge & then Cold Brook; the children much enjoyed the path with its damp mossy banks. Saw with my glass the ^{one} ~~the~~ lost from passing flock still on the 1st slide below ledge where Mike & I saw him Dec-17th. Saw large Hawk flying near ledges but could not well mark him with glass. Afternoon constantly threatening rain.

Sept 20, as we expected had to arrive from Monday. Hapan at 7.30 AM Tuesday we all took the 9.08 train & arr in Boston 5.10: a very long train owing to slide at Willey Notch taking away train service; the Saturday eve. rain washed out several hundred feet leaving RR track in air. Day for us cloudy & rain in Boston. Brought home *Silix balsamifera* shoot to plant.

128 1904

Nov 2. To Ipswich with Walter Faxon:
to Great Neck & Eagle Hill
& back into the town to see
the old cemetery: oldest
stone seen 1690.

on rocks in center of flower
Sedum acre L.

on shore near Langs Bay
river (tidal) a Rumex
rather peculiar but
prob. obtusifolius.

On meadows little way beyond
Poterium Canadense +
Brassica nigra.

Lunched in piazza of empty
house in warm sunshine
near Eagle Hill. Saw
no Lapland Songspers, as
perhaps they had all gone
by in October: but did
see the Arctic Snowbunting
quite tame, but not in large
flock. W. F. said birds
were very scarce. We went
down by 10.10 train home
3.50. This at 7 am 30°
+ a heavy white frost
fell. by a beautiful day.

16 Nov 1904

Walter Fayou
came out & we walked over
the new Reservation Road fr
Harland St to Hillside St.
Found good Pottia -
Home at 1.15 & Frances lunched
with us as Pottia was in
town. P.M. with cigars
chatted abt books & Shakes-
peare & he looked over
my library.

12 Mch 1905

ated, needs a paper devoted to the in-
terests of all sections. To provide
such a paper, not to gain profit, has
been the sole aim of the committee.

The success of the undertaking
seems assured, but it will be greater if
more people will subscribe for the pa-
per, and contribute to its columns.
This, therefore, the committee urge
everyone to do.

For the Committee, A. H. WARD.

Members of The Milton Record com-
mittee—Andrew H. Ward, chairman;
Rev. T. I. Reese, H. C. Gallagher, Wm.
B. Thurber, James H. Perkins, John
Swift, Arthur Tucker, N. T. Kidder,
Maurice Duffy, A. J. Jacoby, Charles S.
Pierce.

March 9, 1905.

THE COLD WINTER.

The records of the Blue Hill observa-
tory show that December averaged
about 61.2 degrees colder than nor-

mal, January about 2 degrees colder
than normal, and February about 5
degrees colder than normal. The total
depth of the snowfall during the win-
ter was about five feet. But, notwith-
standing the severity of the winter it
did not equal the one of last year,
which was about one degree colder
and gave a total snowfall of about
seven feet.

In order to fine two consecutive
winters as cold as the past two win-
ters it is necessary to go back as far
as 1855 to 1857, when the records of
Mr. Breck show that there were three
successive cold winters. January,
1857, was particularly cold, several de-
grees colder than any month since
then. Other cold winters occurred in
1852, 1865, 1868, 1873, 1875, 1881 and
1893.

The warmest winter during the
past 60 years was that of 1890, which
averaged about 11 degrees warmer
than the past winter—a difference
equal to a change of latitude from Bos-
ton to Washington.

H. H. TAYLOR,

Melenologist.

see after Apr 22, 1905 for our trip to
Melloughby in Jan. 1905

1905

March 18th
 Put away in Herb. the last
 numbers of 3+7 plants,
 given me by Fernald
 of last summer collecting
 at Gaspe

18 Mch 1905 at 6.20 PM on corner of
 Commonwealth Ave Dartmouth St
 Boston saw a bat flying.

26 Mch Sinclair while canoe on the
 Neponset, saw Swallow Blackbird
 & many 'black duck: the latter
 at mouth of Ponkapog brook.

1905

Mch 25. After a rainy morning
 I walked to bath in B&R back
 of the Molecott place but did
 not go to the Crossman Pines
 on acc of the ice on the little
 hill where the cedars grow
 before you come to the bog
 bridge. On root of a tree in
 wet land back of the Floyd's
 entrance gate to B&R
 saw a flat odd looking moss
 which looked strange to me.
 It proves to be Cylindrothecium
cladonichyans, & tho. I have
 it from Willoughby Vt and from
 West Lebanon N.H. have not
 gathered it in Mass. under the
 compound microscope its more
 than 12 articulations to the
 leaflets are very evident.

also

Hypnum riparium, L.
 " *reptile*-, Rich.

1905 Mch 30 Thursday.

very fine day this 72° at 2 P.M.

walked down in the lower part of Mr. Kemmerly's land, going down Bush Hill Road & then along the River fence.

Got fine *Xynum uniponens*, also a sterile moss on the *Chamaecyparis* trees & a few *Thuidium* & other *Xyphoides*.

also on decayed log *Dicranum flagellare* Hedw.; frond. 2 erect capsule, very smooth leaf, tho' flagellae are wanting.

The *Xynum* from rotten log in boggy pool that I called *stellatum* is I think

Haldanarium with rather shorter & more arcuate capsule.

April 1, 1905. Walked in the hardwood
land E. of Elm St on Mr. Hermeuxen
estate & collected mosses, mostly
at the roots of oak trees.

examined at home specimens

Brachythecium laetum Brid.

this moss growing in mats of a
yellowish green color at
and on roots of trees in the
dry woods. Upright branches
abt $\frac{1}{2}$ to $\frac{3}{4}$ inch long: leaves
straight - & erect spreading:
plainly lanceolate: nerved
half or more way: rather
plicate. Capsule with
acute lid, gattish &
usually constricted under
the "oblique orifice".
Cilia plainly strongly nodulose
or even appendiculate &
nerves perichaetial abruptly
long acuminate as in Tab
115 of Sull. & Speg.

191
April 9, 1905 Sunday: Walked with MK
for an hour in WKR & behind
the Wolcott & Floyd places.
Got *Trochostoma tortile*
by roadside there & fine
Dicranella neboronella.

April 14. Fine warm day. At 10.30
walked down the road & into
the corner of the Kern land
& across the lower avenue
& out on the highway then to
near the farm buildings & then
by Fox Sparrow path to Green
Lodge Road & thence to the
Club: where I had a cup of
tea & bread & butter & then
to the pine woods & cold
brook. South eastward of the
Club house, where I was
asked to look: it was
remarkably cold & I filled
my box with various mosses:
found also some *Entodon*
cladomyces when I found

in two or three years ago: came home also by Fox Sparrow path Elm St, reaching the house at five o'clock.

Purgatory.

18 April. C. E. Faxon came on 9.15 AM train
 took us round to Endicott station
 left us at path on Everett St &
 we came thro Purgatory going down
 all the paths & finally Currier, at
 angle of roadway opp. Washburn's
 Roadway near DeBarn Road.
 Then we came along to Pecquet St
 went in fruitless search of *Sanguinaria*
 at the Pasture walls there & then
 down Saul Cabot lane to the field
 at the Neponset meadows & back
 to highway, then by Green Lodge &
 Fox Sparrow path to Kemmerway
 farm entrance & by Elm St home.
 The day was cold & windy: Ther-
 mt 70, cloudy & sunny by
 turns. Did not collect a thing,
 but *Caetha palustris* was in flower
 by the Great Spring in Purgatory.
 The gentleman must have been home
 by the 8.15.

This page for April 14th mosses

Plagiobryum latebriola B.S. at wet base of
old big willow on Green Lodge Road, with a
very erect, light-colored capsule.

Eurohynchium strigosum B.S., on the ground
on Fox Sparrow path, looks very
plumose & soft.

Dicranum flagellare Hedw. (with a few flagellae.)
near Ash Heap Brook.

Brachythecium plumosum Swartz, on the round
wet stone in Ash Heap Brook.

Pylaisia velutina B.S. on a small flat stone
near Ash Heap Brook.

21 April walked from 9.30 to 12.30 down by
the Nep. River River. Found to about
what I have called Rhynchospora
Pool tho I have abt convinced
myself that the moss so plenty
here on rotten wood & sticks. It is
Hyppium Halduanum.

Filled my Box with other mosses
& brought home pl. sp. of *Callitriche*
palustris, *Arenaria nemorosa*
& *Chrysosplenium*. Day sunny
& dry like. Ther 70 at 10 o'clock.
Sphagnum cymbifolium Ehrh in Herb.
Hyppium Kneiffii B.S. = *H. aduncum*
var *polycarpum* for this spec in Herb

1905

April 22. To Salem with Mearns, called at Mrs. M. Maccom this daughter: waited with them to the Willows & got Liskia obscura below
Thelma Kirkella
↳ *Polyscia polyantha* perhaps tho it may be some *Polysium*.
Came back 7.43 train having gone down on the 2.15.

1905
Jan 14 Addendum
to West Burke Ot & Will with Mrs I: Ther O at house.
Runs of the Hotel Jr. fore on Nov 15. 1904.

Jan 15 on snow shoes to lake to see the Ice Cutting & through the Cheney place. Deer trails in the snow & probably Gyp the little dog saw them, at least he was very much excited & firmed. PM across Little Pond on the snow surface & thro the pasture Ther O or about O all day no person came to the house or went by today.
This morning many Red Polls flying abt the house and

coming down in flocks to a
 small urine spot, (probably
 Gyps - a female dog) near the
 house and pecking away the
 discolored snow quite industriously

Jan 16

Home, leaving the house at
 12.30 & arr. Mr. Burke at 1.15

140 1905

April 26 Fine day & warm at noon. Wm
drove me to near Pecunick St at
10 am & I went back thro'
rocky woods to where the Brook
crosses Mr. S. Cabot's wood road
to the Neponset & then followed
the brook up to the cold spring
in Bloodroot meadow. Sat
down there & had my lunch
between 12 & 12.45. Then across
the wet meadows to Cemetery
Brook in its lower part, but
not down to the little pond I
saw over the wall & then up
the South short arm of the
brook to a rocky spring hole
near the hillside covered with
timber & over that to Dedham
Road & on other side of that to
the high ridge overlooking the dug
out pits & kept along the edge
of this place for quite a bit.
Wm came to the corner of Elm St
at 3 o'clock & we drove down first
Woodroad wh. brought us out to
the deep rock cut on the Prov R.R.
where Mr. Faxon used to get *Prunus*
pseudo-fraxinetrum. I went
there but found only very

young moss, too young to name. Then
 we came back took another wood
 road wh finally led us by a wooden
 sided bridge across the RR &
 in the field beyond we turned
 left & after coming across Kragin
 took first night road towards
 Canton Junction & so by the Highway
 & fell. Reached St Canton all
 the way home at 4.30. a few
 drops of rain falling at intervals
 all the afternoon. Saw in bloom
 blue violets, Spice bush, Potentilla
 Anemone, Lygula campestris,
 Carex hirt Pennsylvanica, Salix
 perhaps hirt: filled my Box with
 mosses.

- Polytrichum piliferum*
- Hynum reptans* very common)
- Catharinea angustata*.

Mnemonon rostratus
~~*Brachythecium suberosum*~~ but
 make anything I have: appearing
 more like a *Plagiothecium* as it
 has complanate leaves.

Brachythecium rotabulum prob?
 in water form on branches on wet
 stones by cold spring. Sterile
 very lax areolation looking like
Brachythecium procerum & *rivulare*.

142
Hypnum cupressiforme
Arlacomnia palustris ?
Hypnum baldernianum locally clinging
to wet vertical face of rock in
brook where it must have
been submerged all winter.

Dicranum fulvum:

Lucobryum glaucum fruiting while
the top of leaf is covered with a
Hypnum cupressiforme frond so
that I thought in the field that
a *Rhynchostegium* growing on
a bed of *glucobryum*.

Dicranum montanum ?

" *viride*! on old log
near the Cabot roadway before
getting to the Brook.

Fontinalis dalecarlica with
caddis cases inhabited by the worm
& simulating the capsule of
Fontinalis most correctly,
showing above the smooth edges
of the increased leaf cut off and
at base of the operation two
tufts of hairs, one on each side
of the case. The creature looks out
of this case in the form of a
black hard shelled caddis larva.

1905

May 2. With Char & Faye on 9.39 train to
 Lexington with Walter J. walked
 to Lincoln, reaching the town by
 road passing entrance to new
 Cemetery: along that road
 before reaching the Cemetery is
 a half mile or more of good
 grass collecting roads bank.
 found *Aulacomnium heterotium*
 + *Bartonia pomifera*
Hypnum Schoderi
 " *triquetrum*.

very low lying at least
 the latter, being at Lexington
 - early morning

Surrounded by woodpile at corner
 of road.

From the beautiful village on
 a hill of Lincoln we went
 to Sandy Pond shore for a
 short stay here or two
 mooses. *Plagio. labetricola*.

Hypnum riparium - *triquetrum*
Dichelyma pallens.

Listea graciliscens in my Herb.

Dicranum montanum

Hyp. Schoderi with very light col. stems.

Then walked to Baker Bridge
 station + took 4.15 train back.
 W. J. had to leave us on RR + go
 back for missing bag wh. he found
 in the Baker Bridge station

May 4. By 10 o'clock train B & A via Framingham
 with Walter Faxon - Put our bags
 to Clinton where Mr John E. Thayer
 met us with wagonette & we
 drove to his Ornithological Museum
 in Lancaster & after admiring it
 for an hour to the Great Elm
 in the valley meadow, which
 is indeed a wonder. Then
 to his house where we met
 his wife & two daughters. There
 a beautiful library & bird-
 books - has Audubon's
 original drawings of the Hermit
 Thrush. Then we walked about
 the grounds to see the hills &
 the wild garden, which had
 had trampled upon last
 night - Mr J. drove us to
 the 3.35 train via Mass
 Central at Clinton where
 came by the magnificent
 Dam Berry built for the
 new water service & home
 to Boston at 4.56.

1905

145

May 8.

With Dalton (one of the men), by the 8.29 train to Highland Lake in the town of Woburn: arrived there 8.55. Walked back by a short street & then West St towards the Big Swamp: near the corner of West Cedar St. on large elm some mosses, particularly a *Milium* growing some 8 or 10 feet fr. ground: I reached it by standing on the wall: a Tree Swallow flew out of hole on street side of tree up say 15 ft. We turned into 1st Lane or bars on N. side of Cedar St, but this well used wood road ended at two houses, the larger occupied & probably owned by a deaf old Carver whose hired man with whom we talked before his "boss" came forth the house was an intelligent good looking Mass. young man: it seemed to me the positions ought to have been reversed: when past the houses we skirted wet places & finally came out again on Cedar St & remained there till almost to State Road when we cut across corner to a one well brook small but
 good

connects the swamps on the South side of Cedar St. I got a very sharp pointed *Sphagnum* from pool on North side & water beyond of stones in the brook. Along the State road with few attempts to enter swamps.

On Cedar St side not from the two houses mentioned saw one spec. *Taxus Canadensis*, & collected *Lonicera siliata* in the dry woods. near the State Road in swamps were *Coptis trifolia* in flower & *Chiogonea hispida*.

on dry ground north side swamps *Oryzopsis ~~asperifolia~~*

We arrived at Pochick Spring a new place to me & taking the road that led from it came at at A Mc Brown's (a Real Estate Man) place on the State Road off Oak St. Then thro' Oak St; where is a pool with old willows about it, I got *Dicelasma* & *Sphagnum* & in another small pool a curious floating mass of *Sphagnum*.

Thence to Walpole + Electric to East
Walpole wh. connected directly
with a Dualy St. El. via Norwood
we got 3.10 at Norwood fr. Readville
Viola pedata in full bloom.

Prunus Pennsylv. the small size in
the swamp.

Aralia trifolia

Hypnum riparium sterile floating
in masses in pool on Oak St.
compared with the fertile I got
at Sandy Pond Lincoln.

Dicelasma capillaceum on
roots of a big willow at larger
pond on Oak St. fruiting.
Leskea obscura on same tree.

Filix hirtella, new bright green.

Hypnum riparium that other time!
dark green floating mass on
smaller pool on Oak St. is
also a *riparium* with shorter
leaves.

Dicranum flagellare on cedar
trees, very small plants, but some
of them have flagellae.

149
Webera Lescuriana "flagellata"
on the bank by the spring
where we lunched. my notes
with my Herb spec.

Bryum capillare on same bank

Bartramia pomiformis.

Brachythecium salebrosum

Plagiothecium latebriola

{ Fontinalis

{ Dichelyma { Hyp. pluitans forma, vide
Farlow's letter with spec in
Herbarium. The rooting
leaves he does not remark upon.

both from cold brook crossing
Cedar St Walpole Mass
sent some Dichelyma (it has the
rooting leaves) to Farlow

Dicranum ~~puberulum~~

Sphagnum subulnoidum
" acutifolium

" compressum, 4-5000 feet
at bank on Cedar St but sp. not
collected enough for var. torquatum.

Wellsborough, Vt. May 15, 1905.

Left Boston 10 & am. Met Keweenaw on time
& drove in cloudy weather, after all day
rained here to the house. Saw Keweenaw
thru out on the way.

May 16 To the Frazzle before breakfast. Temp.

at Spray 44° mid of another small
spring by pasture fence Temp 40°!

Got several mosses but did not locate
any *Equisetum pratense*.

after breakfast with Will to 1st slide
got flowery *Luzula oppositifolia*,
but it would have been better a
few days ago. One piece of ice

at got *...* fr. cliff south of 1st
slide: Will says it is always late
there & that it is full, just at the

North end of Cliffs & marks on South-

ward: a large piece of ice at base
of Cliffs at 1st slide: one *Primula*

Missouriensis in flower. *Viola pubescens*
& *Deutaria*, *Claytonia Caroliniana* &
... *Diцентра Cucullaria* in flower.

On coming down I went along the
Lake road to Echo Rock &

got various mosses: it seems
1. and

everything looks fresh compared with
last year.

Petalifer Palmata
Louisea ciliata

150
Plagiothecium silvaticum

Cynodontium (varus?) with long setae

Barbula

Weisia

Gymnostomum (rufesce)

Neckera pennata fr. on Rock

Cladonia on boulders

Eucalypta - (high up side)

Arceuthobium attenuatum, very fine
growing on a large boulder, I
put up 40 packets of good
fruiting specimens -

In wet pasture before breakfast

Hypnum revolutum?

+ on log by lake roadside *Thuidium recedens*?

1905

19

May 17 Wednesday; no rain today but threatening until 5.40 when it cleared off & gave us 20 min. of sunshine; the sun going down behind Mt. Nor at 6 o'clock; it was sud gazing at the sky & cliff; with the burnt ruins beside me & the thought present with me of the many now gone who had enjoyed summers in that house for the past 60 years.

I went to the corner of the field this morning & got what I suppose is ignostem prasinum, the male fls. & then along the woods to Snuggle brook. Beautiful *Viola pedunculata* & *rotundifolia* & two sorts of a wood *V. blanda*: one hairy & the other very smooth & leaves fat looking like *rotundifolia*; also *Mimulus punctatus* & a *Heckera* looking one clinging to crack in under side of Big Boulder with *Anemone* & a long trunked *Mimulus* of the affinis sort. In Snuggle Spring also *Cypripedium reniforme* in deep - from its leaves serrulate all round. *Reber subornum* evidently wild in the wet pasture & two *Antennaria* in the dry hills of the pasture.

Temperature of the House Spring 43°

PM Stook race fern plants & then
walked Smith down the road found
five (from its dark red peristome, *Grimmia*
apocapa: also a lateral fruited
Fissidens most like *subbasilaris* acc to the Book

Dicranella heteroneura

Hemalia like

Hermit & Wilson's *Theridion* & Rosebreasted
Grosbeak by the roadside.

Anomodon obtusifolius creeping in crevice
shading on under side rock.

five Hepatics two sorts and another with
a Hypnoid areolation at base of leaf wh:
may be a moss, perhaps *Nerkeria*
complanata.

May 18. various flowers today and sunshine for 10 minutes at abt 2 o'clock.

Remained at home all the am working on Mosses & putting them in packets. After a dinner down the path to the Lake river attracted by the

Orthotrichum on yellow birch so began to collect and filled two bags when the rain made me seek shelter under my umbrella arranged as a roof between a fir and spruce tree. I was up in a

yellow birch when I first saw the shower over the lake & the view across the sky to the cliff was fine.

A snow bank 30ft x 10ft and 5 or 6 feet deep at lower end of path & other smaller ones near by. The

sun came out for a few moments & I partly dried my umbrella in its rays falling on a mossy bank. Tree mosses & hepatics looked wonderfully fresh after the rain. I walked

to the Picnic House & then home by the road. Gathered a *Hylocomium* under Cherry & Spruce trees by roadside.

I made out an *Umbroscum* after considerable study of it. More rain later in the afternoon.

May 19.

A sunny day at last; much wind especially in P.M. & thermometer at 6.30 was 42° — But the sky & clouds have been March like in beauty. I worked on the Neckera this eve making it *N. complanata* which thus far I do not think has been recorded in Vermont. Then I walked down the road to Neckera Rock as I call it & found some more: Temperature of the Spring a little under 42° , thus colder than the Suggles. Came home with much *complanata* which I dried on sheets. It is a fine golden color when not grown in mass. It creeps by its threadlike fibrous rootstock along the face of the rock & where the crevice is large enough to have several lines of plants they can all be separated to these thread-like single ones with branches about 1-3 cm long according to the vigor of the plant. I noticed the moss dried very quickly in the air & was then very brittle, so it may easily dry up & be broken off or fall away from sight.

In the afternoon I went in search of more & found another large broken rock in same pasture with plenty of fil. clinging to the smooth face of the rock and it appeared to me as if the sun & wind of even this one afternoon had made a difference in the moisture of the plant. When it was protected by shade or leaves it was much greener & moister than when dry on the liney face of the rock. I searched other rocks and found more & finally even on the earth on rocks & extending to the root of a tree on the rock, so I made up my mind it must have been here before and escaped the watchful eyes of the Taxons by drying up in the summer time - and I am anxious to test my theory. I followed the wire fence back to Marl Pond & beyond. Found a large plant of *Orthotrichum* in plenty on one dead maple, also a clustered capsule *Dicranum* one or two faintly *Hypna* & also *H. scorpioides* sp. prob. & *Richardsonii*. *Rhodora* not in blossom, but collected ♂ & ♀ *Myrica Gale*,

30

ca

a fine delicate *Amelanchier* &
Epigaea repens, the largest and
 finest I ever saw. Some of it very red.
 On the wood road thro swamp
 a very large hare (I never saw one
 anywhere near so long & lanky)
 gave me a very good chance to
 see him & seemed in no hurry to
 go on, tho the hounds with me
 had been making the swamp noisy
 for an hour or more. I filled my
 box moss full & came back, with
 joy that I was allowed by F. to
 to spend such a happy day.

- Acetosa complanata*
- Dicranum fuscescens*
- " not in fruit
- Grimmia apocarpa* Long plant.
- Thuidium* ? *delicatulum*
- Pothotrichum speciosum*
- "
- Leucodon scurooides* gemmate
- Dicranum fulvum*
- Hylocomium Schreberi* fruiting
- Mnium* ? *Drummondii*
- Amblystegium riparium* in a dark
 small pool below Marl Pond: wilt,
 it also a sterile moss. wh. may be
palustre or
cordifolium

a rigid *Mnium* not yet ex
& a *Callitriche* with curiously veined
leaves and a straight-sprous pubescence
on the back, rather than stellate.

Rhynchospora — in mat on
the big yellow birch root by the new
lumber wood road in the Swamp.

Hypnum aduncum or *revolverum* in
Marl Pond.

Saturday
May 20th

A snow squall this morning
at 7 o'clock & cold rain & showers
all day. Ther. at 7.30 36° and
about 42-44 all day. Have
been in all day, putting up more
neckera & working on yesterday's
mosses as per the list.

At 5 walked to the lake but
hurried back in rain. Took
from a tree what I call
Hypnum reptile but did
not examine it.

158
1905

May 21. Sunday: Early to the Cheney place & found *Neckera complanata* on the big boulders by the brook. We make me more & more think it must escape summer observation by drying up, or even breaking off the rock & falling to pieces in its limy bedding.

After breakfast with Mad to the Bishop's farm for the *Crataegus*: it was riot at all out but I brought home a couple of branches to place in water. Back to the school No. corner & noted the warblers in the little glen at the corner: the day was then sunny but breezy & the birds sought shelter in the glade. The *Magnolia* & chestnut-sided warbler were plenty and best of all a white crowned sparrow.

Coming home we found excitement from the visit of an unknown bird to the grassy lawn in front of the house, and that Will had brought back from the lake shore road a dead Scarlet Tanager with his skull emptied of its contents by some bird or animal. They all said the bird on the lawn was never seen here before being all

over of a rosy red with no black at all on it. Mrs R. Kutter Charles (who came into the house to call the ladies to the window to see the unknown bird) all agree as to its color & novelty. Mas could hardly believe it to be the Summer Red bird up here, but it looks like it —

PM the cloudy & windy we went to the Golf field & pasture above but birds were not to be found.

Evening Mrs R told us something of her farm: she has between 600 & 700 acres: it follows the Sutton Town line from the Bishop's farm place on West side Sutton school Ho. cor. Road and then in a line down to Cold Brook corner (the not as far as to the brook & then from the ^{south} spruce grove near gate (my Jaylora Grove) in a straight line over the top of the mt, taking in Pulpit Rock & going some distance beyond the top & then back to the or by the wire fence — that finally ends in the road near Ha Ha Spring brook. A separate piece is the 9 of ^{the} ^{the} and

160
another separate piece is the Picnic
No piece at the Lake of an acre
or two. The beach at this
end of the Lake is a public landing
for 30 Rods and cannot be enclosed.

Pleurothecium Muellerianum
on the Cherry Place at foot
of plummy rocks on which grows
the *Neckera complanata*.

Charles Walker has been at work for Mrs.
Richardson since 1900 The Knives
G. H. Mann of
Waterville Vermont
who made the short, thick
Carving knife
Mrs R. has just given me.

May 22. This has been a Bird Day and I never knew before how much it means to come up here before the leaves are ~~off~~ ^{on} the trees and watch for the arrival of warblers.

I went down to School Ho corrie - in the swamp there had five views of the Parula Warbler (I call him my little Blue Jay) also the Nashville. I found in swamp

A pls of *Dicranum* (? *flagellare*) with so large it almost seemed like a capsule buried in the long subulate cusped leaves. I almost thought it a possible *Pluridium*.
Chamaecium in fruit

Fissidens " "
large *Mnium* " "
Hypnum " " and an odd looking *Orthotrichum speciosum*.

Charles told us at noon that yesterday's strange bird had been within sight of him, all the morning while he sowed oats. So we three (Ha Mad & I) went out towards the Cherry Ho & saw the bird at the edge of the grass land and it was a Scarlet Tanager, but HWK & Mrs R.

Say yesterday's bird had no black at all on it. While Charles, tho he saw no black, on yesterday's bird says his Today's Scarlet Tanager is the same bird he saw yesterday.

He also reported today the first English Sparrow ever heard of in Willoughby. But this evening he tells me that his one English Sparrow was in company with the Scarlet Tanager, so it is probably his sober clad mate.

Coming in the house I arranged my mosses till 4 o'clock - then out on the Pasture Ridge where in the larches & cedars by Little Pond Bog we saw two birds feeding in the Larches which I noted as Two

Big Chickadees and also with them a third very brilliant whi I noted as follows:

"Same with yellow & black on head and yellow throat spreading to buff: almost as large as a Robin but chunkier; they feed somewhat hanging head down."

my Field Glass may have magnified their size too much,

In Little Pond Bag two of the Sandpeeps, of former years were feeding by wading along shore & putting their heads under water every now & then. One remained standing on log very quiet for some time & I made the fall notes.

"white ring around eye. Greenish-yellow legs, say 3 inches long.

Dark brown curving line along outer edge of wing. very white spot under tip of tail. Hind wing short & apparently not reaching ground. Upper parts mottled light brown. under parts soft pearl grey & feathers on his body at thigh ruffle in the wind. Looks like a fat robin for size, tho' short tail and larger legs.

There is a Robin's nest in the broken down chimney of the ruins of the burnt hotel abt 4 ft fr ground with three fat featherless young. also a Blue Bird's nest in a hole in an old birch tree near the pasture entrance. the male & female were both near the tree.

1955
May 23

12, cold morning: ice on the grass by the overflow of the water pipe + a heavy North wind all day: the lake has looked blue + cold, with breakers on the beach. Ma + I walked to Roaring Brook: Temp of the Brook 40°. Collected a good many mosses: one bunch of soil with *Eucalypta* in it in plenty for that moss. No birds of any moment: the high wind not favoring them. Got *Uckera oligocarpa*? from under + dark side of a boulder with a bright brownish red capsule diff. from the ordinary form.

PM. To the sugarhouse woods behind
the Hotel & beginning of Mt. Path:
Several tree trunk mooses &
I was surprised to see how much
they seem to have dried up:
more sun seems to shine there
but some fog is due to the leaves
still not out, & so the woods
lighter.

Desman longifolia

"

Pylæa
lyperis

"

Thuidium
arborescens

watched a pair of Purple Linnet
feeding on the young larch trees.
Saw the Black-chickadee bird
of yesterday, but only for a hasty
look: he is abt the size of the
Linnet & was on the same larch
for a moment. Temp of the Sugar
Woods Spring 42° : this spring moves
up the hill as the summer advances
& finally gives up its life in a
wet spot by the fellow *Cypripediums*.

1905

24 May. a very beautiful day, tho a bright
white frost over everything early this
morning. Will & I to the top of the mt.
leaving directly after breakfast;
the Crataegus on top not at all
out, but I cut some & have put
in water. The top & the little
glades there were carpeted with
Spring Beauty, Dog Tooth Violet
& Sangunaria; I collected
several mosses off the trees:
To North Outlook & then took
the new path down to Roaring
Brook: the lumbering of winter
before last has wholly changed
the look of the forest & I was
much disappointed: we lost
the path in the broken timber
& brush, but finally came to
the road close to and south of
Roaring Brook & then to a 12.30
dinner. P.M. with Kar & ad.
to the lake shore, Katie's first
walk to lake; heard Keweenaw
& Wood Thrush & watched
the beauty of tree & sky.

Hypnum on rock by Palpib Rock

" on log under the

shrub at path to Spring.

" on Crataegus

Pylaisia " "

Orphot " "

Hylacomium on ground of north side mt.

Hypnum " " " rock

" " " " trees.

Polytrichum " " "

Desmoureaux " "

1905

25 May

AM. with KWK & Mad to Echo Rock:

Hypnum serrulatum ?

PM with Will R to the Scopioides

Bog & while he fished & got some
15 small trout I collected mosses.

Fissidens

"

"

Desmoureauxia

"

Hypnum Scopioides

"

"

"

was rather surprised at finding so little
or no sphagnum where we were.

Loumeira caerulea in fine flower.

Coeloclypeus ...

1905

169

26 May. Ma & I went home 8.08 train & Mrs. R, H + I drove her to West Burke: Day fine in forenoon: we came home slowly by 10 o'clock. I got *Atrichem medulatum* on Brook path: sudden dark clouds before our 12 M dinner & hard rain in p.m. I worked a little arranging yesterday's masses.

Saw first King bird today
" " Golden winged Woodpecker

"Will R. says "The Juncos have come back" when I supposed they staid here (some of them) all winter, but he says no.

wonderful yellow hazy sunset in the midst of rain. I stood under umbrella & watched the sky and cliff.

130 1905

27 May

morning doubtfully clearing but afterwards
day very fine. To Cold Brook
path: Temp of all the Springs &
brooks the same, i.e. 45° - Got a lot
of forints.

Hypnum imbricatum

Trough to send trout 50 - Cold
In the cold rocks above ~~Roaring~~ Cold
Brook

Thamnum

growing on wet face rock &
Neckera

or some other possible *Thamnum*.

Came home with several mosses
that I worked up in P.M.

1995

28 May - Saturday: very fine day.
walked to Crataegus on Bishop farm
but it was not anyway out.

Back thro Golf pasture & found a
watched for some time
3 Humming Birds on the Canada
cane trees, feeding & resting on
the branches; they often stopped
while they rook their bills on
the branches.

Mr. E. J. ... Nest beside of
living first house south of
Dr. Cheney's fish pond and on
top side of road brought me 2
Culexso borealis found in
the Swamp just back of his house.
They were in prime condition.

Temp. of brook at farther side of the
Golf pasture 50° being thus warmer
than those nearer the house.

1905

Left Willsoughby

29 May

Monday, at 7 am + to West B
Train +.10 Boston 4.30. met Miss Shore
of Fall River who with a friend had
been two weeks at Lafayette's house
Franconia observing birds.

1905

1235

arr. Wolloughby

June 5 at 4.45 for Boston at 10 am
 Dr. Mrs. Broughton came on same
 train, they going to Alaska.
 We talked of the Japanese
 celebration last Saturday.
 Mattie & I were met by Will
 & reached home at 6.20 with
 our trunks load of fresh vegetable
 fruit from docks.

Uncle also had given us
 some living soft shelled crabs.
 Evening warm & pleasant &
 I walked back & forth to
 bridge till 8.30 —

June 6. Tuesday.

packed up the mt in forenoon:
 everything fresh from the rains
 last night. The *Crotogeomys* no
 where near out & blossoms
 appear to be very few in number.
 Took one bunch to let bloom
 in water here. Brought a few
 money to the post. I have *Crotogeomys*
 left with me. have been
 busy to this pm.

Praxinos *enstatum* Mils
Catharina angustata ? & ♀

Brachythecium salebosum
or " acutum.

Pogonatum album on the path
Anemodora &c

Hypericum —
also a Morchella — very much
corrugated irregular in its
adhesion to the slope, &c.
extending in many ways.

I left my wastebag on a
post of the wire fence on the
edge of the woods when I
returned it was gone.

Charles & I have investigated
this PM and it is evident
some one had been breaking
fence & had lifted it.

Mr. Brewster
Mr. Brown
Charles Brewster
I have been thinking
of you & your family
and hope you are all
well. I am well & hope
to see you soon.
Your friend
John Brewster



Willoughby Lake House

VERMONT.



N. R. RICHARDSON, PROPRIETOR.

F. W. RICHARDSON, CLERK.

6 June 1905.

Mr. Geo. Humphrey:

West Burke Vt. Dear Sir:

Today while botanizing on the mountain I hung my vest on a post of the wire, dividing your property from Mrs. Richardson's. When I returned ~~the~~ ^{two} hours later the vest was gone with valuables in the pocket which are of importance to me as being gifts. I am told by the neighbors that you & your man were at work there today mending the fence and I trust you will see that the vest is returned intact to me at once.

Yrs truly Geo G Kennedy

June; Wednesday: cool bright day till 2 PM
when it clouded over + a cold
rain set in at 6.30.

As I walked to Bishop's Farm
+ got one only fl. spec of the
Cystacypus; brought home a
small branch, the tree will be in
full flower by the end of the week.
This one flower had anthers of a pale
pink color, streaked + tinged
with white, looking under my
lens like a minute *Cyprinus* in
scale. 5 good stamens
2 sterile + stamens and
one stamen made up of two
sterile stamens + anthers.
also 5 equal styles.

Coming back to the Brook
nursery up into the pasture
direct behind the Bishop's house
I found a halcyon bank where
grew

- Quercus alba*
- Ficoides* (nob) *cristatus*
- Thalictrum flavum* in fruit
- Benjamine* *pellens*, only 3 or 4
plants in the cold gravel of
the water ridge.

176
Hypnum cuspidatum

at the meadow near St. Louis Ave.

" *chrysophyllum* not far above
this point:

and getting into what remains
of the once beautiful *ledum* swamp,
Distena cordata
Mutilla nuda

+

Hypnum splendens

Thuidia or *Hylacomium*

+ *Trichocolea* as I suppose.

At dinner here were

Mr. Watson of Sutton Corners,

Mr. Raggles who has cottage

at Cold Brook & from being

a West Burke Druggist is now

President of Bank in

Sydneyville

a young man to the Bank,

they all went fishing in lake in Pt.

Hattie & I walked to the Fair

House betw. it & the lake, but no birds

hang in the cold dark air.

on Rock collected

Hypnum populareum

8 June. Every spruce tree on Mt Nor
looked like veritable Xmas
tree this morning at 7. For
they were all loaded with
fresh white snow.

The men have been setting Telephone
poles near Mrs R's house to
avoid the trees in the highway
and I have been talking with them
particularly with one

Lyman Walker
a West Burke a Simons
Kumber & a very interesting
out door man: his sister
teaches in a college in Penn
he would be a good man
to go with out this northern
region as he knows the
country well, betw Baldon Pond
& Johnsonburg.

Drops of water clinging in the open work
cup made by the pinnacles of young
larch leaves have surprised me
this morning by their diamond like
beauty & by the fact that I
never before noticed them. The
least jarring dispersed them,
but they were shining in the

178
slight smushiness when I left them
as if waiting to be absorbed by
his rays. One single pellicle
of water is minute, but these
larger pellicles, up to at least
five millimeters wide, filled the
lower part of the mountain cup,
perhaps held in place by a thin
coating of the oils of the young
& growing surfaces.

Epigaea repens in good flower
this morning - another proof
of the cold weather up here.
growing of course on the cold
side of a cold hill in cold swamps.

I have been walking about the Little
Pond Bog:

Hyp. mucinatum var
Dicranum furcens a very
large fine var. sterile.

Pyrum Durvallii

Hyp. Blandovii

Mnium Drummondii, in
the deep grass of the wet
meadows by the *Blandovii*

+ *M. hymenophylloides*
also the very large,
Festuca adiantoides

at the further outlet of the pond.
 and a very acute operculated
Rhyacomyia
 which were so not far that I
 should at once call *Umbrotium*
 a *Thuidium*

also in the wet grass, ^{was}
 down under the grass, that
 makes me think I don't
 know any *Thuidium*.

P.M. Katter & I walked to the
 Lake.

very heavy dew on the grass
 immediately after sunset.

1905

June 9 Friday. To the Bishop's farm in Am
& collected *Crataegus* flowers.
Coming back followed the Brook
down to the Swamp at Four
Bridges: in brook

Fontinalis Lescurii
and in Swamp

Porachythemum Novae Angliae

Xyrium

Bryum proliferum

Barbula

on trees

Mnium cuspidatum

and under big boulders on Road

Plagio silvaticum.

Remained at home in p.m.
Day has been very bright & fair
the morning coldness giving
way to a rather cool forenoon

10 June Saturday

Three ladies for Lynn came last evening: they are all "upper plants" + today I went with them in an abt the wet meadow & of Cherry House round by the orchard, corners to Snaggle & then to the Little Pond Ridge & home. Equisetum in the Cherry corner as good as ever. + yellow Cyrtopodium in the wet meadow. Pm we all to the top of the Mt. The Crotalaria no nearer blossom than last Tuesday. but at north outlook got good fax for aya Azoon & Draba. Afternoon misty + rain set in when we got home. Much beauty & mystery in the view of the lake for Pulpit Rock & the north outlook.

Mrs Maratta whose husband was 5 years consul general at Melbourne Australia and said Dr. Mueller died while they were there: they knew him well.

182
above

Mrs ~~Boyd~~ Boyd at Biddisford
who visited Fortunes Rock
a great deal when younger

Mrs. Boynton -

" Frank Parker above
195 Ocean St Lynn
Tel 531.5.

Mrs D.W. Maratta
14 Ocean St Lynn
father is
N. Brewer
Tel. 1017.2.

1905

183

11 June Sunday Rained hard all day
did not go out.

12 June Monday.

No rain today but cloudy &
towards evening very warm
& mosquitoery.

Walked with the ladies to
Roaring Brook, very full of
water: found a Junco's nest
with four eggs by the Lake
Roadside. Coming back

went up 4 to July slide:

Sax. spp. in fruit

Panicum in flower

Sax. arifolius in neither flower
nor fruit, just the plant.

Astragalus Blakei in flower

Saw no Hedysarum.

Carex scirpoides

Scirpus capillaceus.

Potentilla fruticosa not in flower

not much there

Asteriscus young not much.

No fruiting mosses, brown, at

back some sterile net

Azoreum, Mniurum

prob. Gymnostomum curvirostrum

1941
also *Viola venusta* in the
cold brook.

Celastrus scandens a short
way up the slide:

Rhus Toxicodendron in full
flower:

many fresh young oaks
of fine flowering *Juglans cinerea*.

Got home to a two o'clock dinner
& then took them to the Bog
woods about Marl Pond.

The great find was five plants
of *Calypso* above Marl Pond
near the wire fence.

Mitella nuda &

Listera cordata.

Took them also into the
Rhodora place on the
road side of Marl Pond.

1903 1915

13 June Tuesday:

To Cold Brook path thro the Cheney wood with the ladies. Large specimens of the Morchella that I have before found with the corrugated extended-in-folds cap.

They went home by the 1.47 train after a 12 M dinner.

PM It thundered & threatened rain which came in the evening. I across to Little Pond from the house over field, meadow & ridge.

Dicranum flagellare on stump
" *congestum* "
" *fuscescens* on rock
and a rock mixed with other
Hypna what I call
Brachythelium Thibellii.

It appears to answer the L of Description.

14 June Wednesday.

In field back of house towards Cheney's at Brook

Carex scabrata + perhaps with glava collected also

Equisetum pratense

& in the Cheney place & along their house supply Brook various

Minimus which I have not named.

a fruiting Thuidium +

a Pleurozium fontinalis

Bryum - a common

& several Hypnum.

P.M. took car to the above & before Tea to Pasture Ridge but saw no birds.

Day the warmest yet.

15 June

187

Bryum microstegium

appears to answer for my yesterday's
moss on the Cheney place

There are two things perfectly
satisfactory here. ^{viz}
The Heavens + The Earth.

15 June 1905

Thursday. A warmer day than we have yet had.

went to Top of the Mt, in AM but the Crataegus evidently will not blossom for a week.

A big Beech had fallen & I collected some mosses that otherwise would have been beyond my reach.

As usual started two or three partridges. Collected a fungus not a Polyporus.

PM packing to go home tomorrow.

16 June 1905

Tuesday

Left Willoughby at
7 am: ar Boston 4.30
a fine morning drive followed
by a warm day.

1905

June 28.

Mosses from Laggan &c
from
S. A. Broughton.

1905
July

195

4. Solidago.
tracked up Blue Hill at 5
Am back at 7. Signs of
being a very warm day.
Fine ripe *Vaccinium Pennsylv.*
+ also *Solidago juncea*
in bloom near the wet boggy
place on top.

Meibomia
on the path coming down.

July 11. To West Rutherford N.H. with road to
call on Miss Woodward,
on the RR tracks near Station
Thlaspi arvense L
Carmelina sativa Crantz
two northern things as I have
gathered them.

West Lebanon NH

Oct 27, 1905. NWK & I went to Montreal on
 Tuesday Oct 24 & came back to
 Alder Hall yesterday pm.

Today brought home a moss
 fr. the old mill on road to
 Alder Hall which I suppose
 to be Entodon & it looks flat
 & smooth shiny like to "Cladonia"
 I gathered on wet rocks by edge
 of brook beyond Hasic club in
 Canton, on April 14 last.

1905 Oct 29 Sunday Crossmans.

walked with NWK to Crossman's lane
 by the old road to Hillside & home
 by Forest St, Doe Hollow & East Hill
 In Crossman's brook near old C. house
 got an hepatic growing on & clinging to
 small gravel & stones & always submerged.
 Tried to name it fr. Pearson. But
 hepatics & called it:

1 *Chiloscyphus polygonifolius*
 var. *rivularis*

or
 2 *Jugosmanium repandum*

Oct 30, 1955. To Manchester to call on Florence Brown see Kenneth but they not at home - I reached by 'the Mystic Parkway to West Medford. Beautiful fall day. very fine white pine on bank betw. Mystic Pond RR with 7 main - ascending branches. Thus making a very noble & unusual tree.

Bradford Torrey.

Nov 1. A dull morning with fine day in PM & cold wind by 9 PM.
 Took 9:32 train north Chase & Faxon in Wellesley Farms where Bradford was met as we walked Glen St. thro' the big Deane Estate by its private road to Wellesley St. & across St. & by school house corner to South ave & beyond Pine St. ate our lunch on the roadside & back by pretty much the same way with some roads near the station & took the 5:53 train home. Saw almost no birds & almost no people.

1916 1905.

Nov 8. Wednesday Bradford Torrey.

Took 9.15 with C. E. Faxon for
Newton Lower Falls where B. T.
met us & we walked back
MRR across Char River Bridge
& up front street to left & so under
the B. T. A. R. & by Seaverus
Brook lane (a wild pretty place)
to the road by the new bridge
leading to Notumbega Park
on wh. we stood some time
admiring the reflections in
the dark water under a
sunless sky & then by wood
paths & side hills to top
of Doublet Hill marked by the
two or three pines wh. can
be seen fr. long distances,
then down towards Mr.
Deaver high water tower
taking our lunch by the
side of a pasture meadow wh.
there not being any sunshine
was rather cool & made
B. T. go off in a discussion
of his admiration for Desert
Scenery as wh. there was
anywhere where he was
last year.

From the water tank tower which
 we ascended for the view we
 came by road & woods to
 Mr Wright's place where the
 lay out of the place is fine,
 & the big oak by the edge
 of the wood, revealed by Mr
 Wright cutting still finer &
 then to Bert's house close
 to the open aqueduct & so
 down to the N.L.F. station
 for the 3.12 train.

On our way to Doubled Hill
 for November a bridge is walked
 for the Gate House along the
 top of the new aqueduct for
 abt half a mile, & a very
 beautiful walk it was with
 the brown & yellow woods
 on our right.

1905

Braintree.

Nov 15. with Ad Hodges, C. E. Faxon & Mr Ekholm by the 9.17 train to Braintree & to the Faxon old house in a meadowed farm towards Millard & is in the westerly part of the town tho not far from the station. Enroute we stopped some minutes in the ancient burying ground.

I took several photos of the house & lane. The morning was cold & windy: Ther 20° when we left Boston & the day gradually got less sunny tho warmer & was 40° by 4 P.M.

We visited an old disused quarry of red granite & then came thro wood paths & by a fine ice pond on the dammed up brook & so to Dr. Synonds trout ponds & across country to the old Purgatory Lane on the East side of Blue Hill Reser. Followed that to Braintree Great Pond & then by bridge over the river into the

Reservations by good road to
 to Park Place - nr side of
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Miss. Tiske at the Summit No

Miss Kate Hawley or Miss Tamme H
 Miss Cleghorn their niece
 in the village. Miss Day Kugard
 then - work in to add to
 build the better house or
 boundary place. Miss C need
 to be at these cliffs

The 2 1833
 From office of the Road from Penn
 7. 1833 and here
 ... Street ... 1831

Reservations by good road to
the Park Place → all beds

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lowe

Names of members whose monthly dues are not paid before the 15th inst. are posted.
If not paid forty-five days thereafter, membership may be declared forfeited.
Checks should be drawn to the order of the Union Club.

2 35		Restaurant	
		do. Ladies	2 35
		Cigars	
		Billiards	
		Cards	
		Rooms	
		Carriages	
		Miscellaneous	

Wm. B. Kennedy
Reading

Boston, MAY 1 1905

MONTHLY STATEMENT

UNION CLUB

Reservation by good road to
 to Park Place + up side of
 Chickatawbut + down the other
 side to Reservoir Road + to
 to Randolph Ave + Electric
 cars to Mattapan where we
 parked. They to Boston + I
 by electric home.

Saw a flock of tree sparrows
 over by the ice pond in main-
 tree. The ice moved
 bear me on the edge of one
 little pond.

1905

Newbury —

Nov 23

with Ad Hodge by 9 o'clock train
to Newburyport & walked about the
town. Saw statue of W L Garrison
& Washington. The Public Library
founded in 1855 & occupied a fine
old Colonial mansion in 1865
walked to Parker St via the
Frog pond & Cemetery & saw
stump of the big elm that H. F.
Gould celebrated in her poem.
It blew down a few years ago.
Took electric car to bridge at
old Newbury over Parker River
had lunch on the shore.
Took photos of the shore & of
the memorial to the Early
settlers: we had to leave at
2.20 the most beautiful hour
of a most beautiful day, a
very perfect Indian Summer
day. To catch the 2.54
train back to Boston.

we shall go again for a longer
day -

The pale colored sparrow
I saw in old cultivated
field near Parker River
Mr. Walter Fox on thinks
was an Ipswich sparrow.

It flew from the ground abt.
30ft in advance of me, & went off
quite a distance say 300 feet
before alighting: it had an undulating
flight & was some larger than
a song sparrow & quite a
pale color.

NOVEMBER DRY AND SUNNY.

Month Was a Record-Breaker in Sunshine According to Blue Hill Observatory Records.

The records of the Blue Hill Observatory show that the past month was the sunniest November in more than 20 years. There were 174 hours of sunshine, the normal being 132 hours. The highest previously recorded was 153 hours in November, 1899. The average relative humidity this year and the cloudiness were also the lowest in 20 years. The rainfall was only half the usual amount, but there have been several dryer Novembers in recent years. For four successive Novembers the rainfall has been small. This year there was very little rain until the last few days of the month. The temperature averaged about one degree colder than normal.



