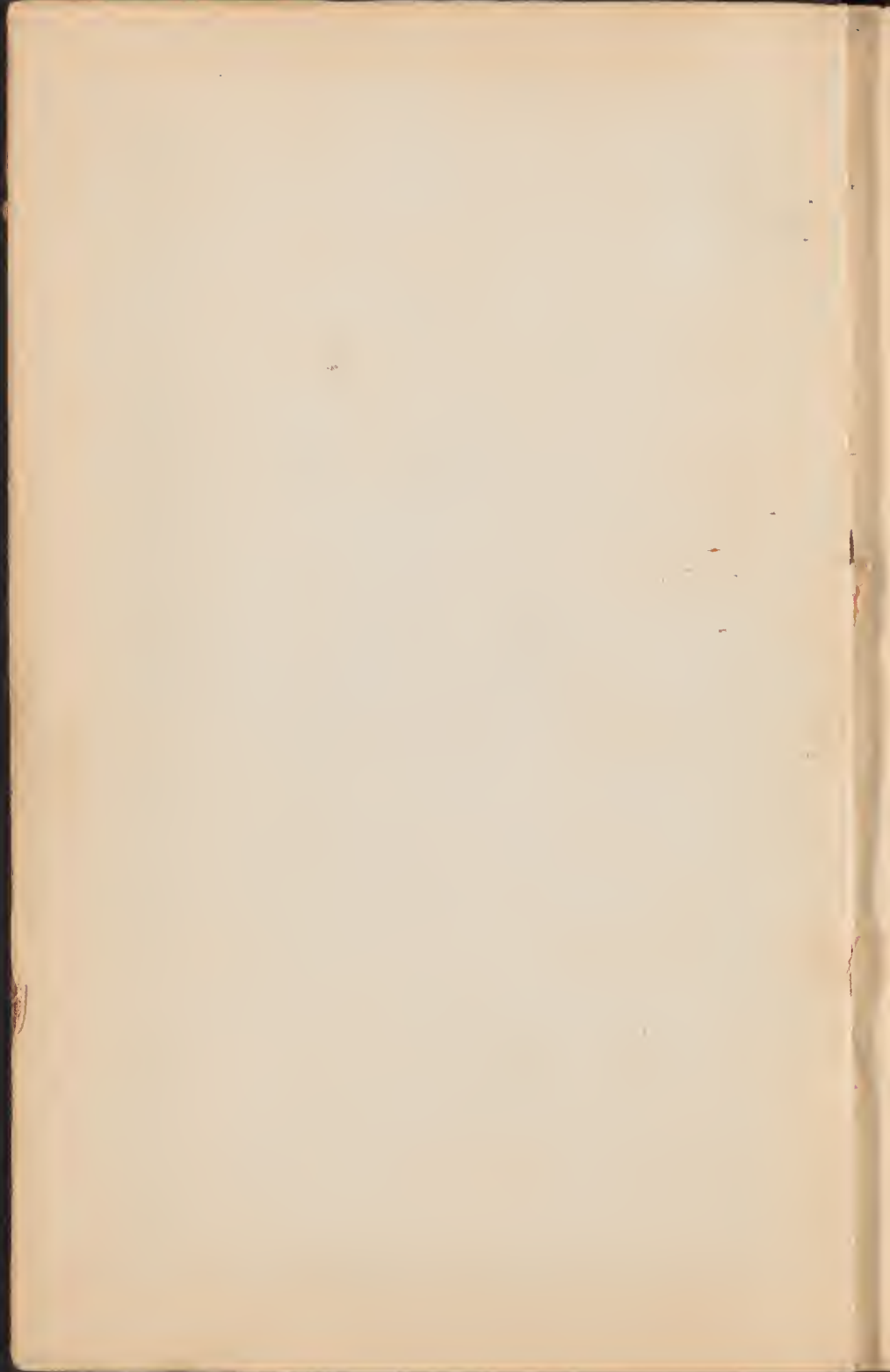


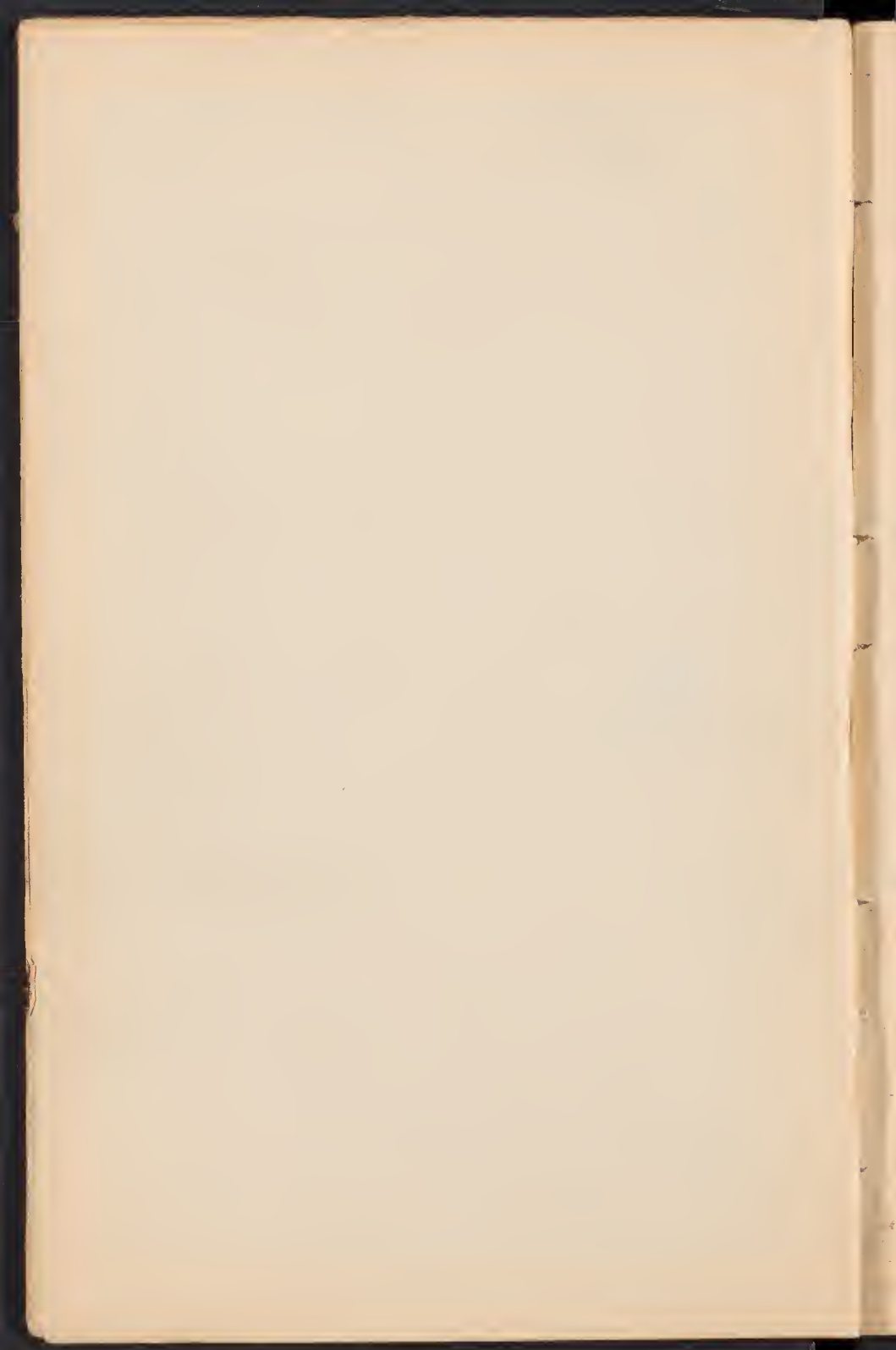
Ferns
(5)

Harvard Coöperative Society.



Fernald

(5)



June 29, 1904
On the "Admiral", Baie des Chaleurs.

Left Boston Sunday night, the 26th on the 7 o'clock to St John, arriving there at 10.40 ^{Monday} where I was met by Gen. Hay with whom I explored the ballast lands & wharves before lunch - *Matricaria discoides* & *modica* abundant, also *Diplopappus muralis* etc, & three *rad*-forms of *Capella*. Lunched at the Hay's, meeting Mrs. H's, niece, Miss Hunt from Camb., After lunch Mr. J. Brittain called & joined Mr. H. and me in a walk about the St John park system. Northern plants as expected, in a bog *Galium labradoricum*, *Rhamnus*, *Leucophaea*, *Carex Godoniana*, *Triglochin maritima*, etc.

Took 7 Pm. night train "Maritime Express" to Miramichi, but discovered five minutes before leaving that no dining car until breakfast & no buffet. So quick lunch of 1 sandwich & an orange for dinner. To bed at 8.30, waked out at Miramichi at 3.15 am. With 4 1/4 hours to wait and a clear morning light, devoted myself to following all roads to Bay du Grand from the Station. Repuls. French Canadian small village with cluttered nasty streets & broken sidewalks. Best botanizing of the morning a half mile down the Restigouche. There in thickets with the everywhere abundant *Querc. can. & nigra* & *Sium macrophyllum* a large colony of *Osmorhiza longistylis* & a small patch of *O. divaricata* & *Liab. hirsuta* on Riv. Grand. On ledges *Astragalus alpinus*, *Oxytrapis canadensis*, *Johannisson*, *Hedysarum*, *Onoclea multifida*, *Saxif. Balsamitae*, etc, abundant. *Viola* (glabrous plant of the St. John & Grand etc) abundant in gravel, in flower (also violet) next the water in front with blue.

capules on the talus & slopes above. These
mingled with Fragaria americana, etc. One plant
of Poa alpina in a wet crevice, with Trisetum
& Carex capillaris, var. elongata.

Train of Atlantic & L. Sep Ry of course late (15 min
in starting). Same fat French-Scotch Condr. with
black monstrosities & muddy face. Same caboose cab,
on the up-grade just beyond Esplanade station
the engine broke down - literally one of the pipes
broke off - and could do nothing, so we slid
down the slope as far as gravity would take us
and arrived while the conductor walks back 1 1/2 mi.
to Oak Bay station, to telegraph (no telegraph at
Esplanade sta.) The west-bound train at noon
brought the General Manager, Seales, on his way to Capetown,
& the assurance that the other (3^d engine) of the road would
be there shortly, the fourth engine being in repair since
all day, we waited by the disabled train, and at 1 P
went with a Montreal drummer, Percival, and a
St. Eustace, Bonaventure, merchant, & Gallien, a
man of Jersey origin, who had never before left the
region of Paspébiac & was now returning from
a wanderer through in Montreal & Quebec. We found
a farm, Brown's, where we were cordially taken in to
bread & milk. During the wait I explored a leaf
salt marsh which was covered in distinctly salt
patches with Salix maritima, S. nigropicea, S.
glauca, Scirpus, Juncus, Sparganium, Sagittaria, Utricularia, Sium, Urtica.

Swada & blamye. immature Its border has
Carex aurea & Galium labradoricum & a thicket
with Rosa lucida unbuded, Prunus virginiana & Vib.
Opulus in flower -

An expedition to Essequima R. for water shows
Viola of Arrotoke & Testifucha abun. here. The 3^d
stage of the road arrives at 7 pm. - 9 hours after
the breakdown - she herself having given out near
Caledon & having to lie by for repair. Supper
at 8, boat Giroux's, decent food, good cedar swamp
road & Prad. refresh mt. within reach - at the
R.R. water tank in Caledon under the big cliffs, the
incident - conglomerate source with Thuja, Sipho
& Actinidia sp. (young). etc. New Caribee soon

after 1 A.M. too late to spend the afternoon in the
hill on search I had planned. Put up at New Caribee.
Tolerable. Menai's presence & anxious to please but not
as everywhere else in N.C. too much gin.

This morning called at Caldwell's - C. sailor! Lawrence
as usual. L. thinks he may be a brother-in-law of E.F.W.
his L's sister-in-law "out in these parts" has written that
she is going to marry a man named W. who has 70,000
in the bank!

Menai was to take me to the boat at Tappan, as
she has not touched at N.C. since she smothered here -
then again at the wharf. So my trunk taken away to
T. The method is to guess whether to Adm. or
touch at N.C. or V. Maybe she will, maybe she
won't. This time she stopped at N.C. & we drove back.

Met at boat by Cipille Leroi, Guadiana,
the Grand River. Exp. of gentlemanly Indian.
Too late to go up river tonight, so Cipille
leaves me at the comfortable home of John
Carberry.

June 30 -

After breakfast found a pubescent small
form of *Ranunculus acris* - everywhere in grassy places.
Mrs. C. directs my attention to a small *Cera. drac.*
where "orchids" (*Sanacenia*) grow. Great *Centauria*
Ordinary *Cera. drac.* swamps things, & among them *Scirpus*
caespitosus, many good willows, *S. candida*
here, ^{seeming to pass to} *S. glauca* splendidly fruited,
S. chavica-Rufinae, low sprawling shrub with glossy
foliage, but as at N.C. in 1842 no fruit. *S. myrtifolia*
&c.

The *Viola* of Marshall swamps
abundant & beautifully flowered, clearly a bog
state of river-beach plant. In the mossy knick
under *Empetrum* & *Ledum* *Rubus arcticus* in
beautiful flower - flowers rosy pink, the *Cosmos*
lucidations, firm & slightly glutinous. Some plants
with habit of *R. triflorus* & seeming to pass into it.

Cipille came at 9 & with his son John took
me up river. Splendid cliffs almost the length
of the river, with occasional alluvial or
gravelly flats. The common ones -

White Spruce, Arbor Vitae, Fir, Balsam Poplar,
Populus amur. & Sitchense both flowering, and
low growth of Alnus ^{mollis} ~~europ.~~ sinica, Tiburnum
Opulus & pauciflorum - Prunus birg. & Corylus basty

On the beach below Cyril's Salix glaucophylla,
pellita, coiata, maectongiana? & a large erect
shrubby species (10 ft.) possibly S. argyroparpa -
We meet Messrs. Cabot & Richards fishing at the
Grand Camp Mr. C. a tall very man of 70+,
cordial & hospitable. At the Grand Camp the
beach covered with various Straupe willows -
the common grass Poa alpina, the common Carex

C. concinna on rocks or in alluvium & C. humilis,
like Maine C. deflexa, C. capillaris excepted.

Two Aster species abound one resembling petaloides.
The other apparently the Mattawantcag R. dswang,
Viola conspersa in alluvium with Poa also Viola

Equisetum foratense, Polygala pauciflora (inf.)
Petroselinum (3-4 ft.) Viola scabriscula, & Tomentosa
obovata! Senecio Balsamita very variable.

perhaps two species. Gay eburnea acromphala
& Aucanone parv in fruit on all rocks &
damp gravel. Epilobium Hornemannii on the
beach near the camp, & some small patches of

Dryas Drummondii, *Veronica* ssp. &
var. *borealis* both frequent - *Ranunc.*
repens in recently disturbed places.
obviously introd.

Reach M. Galois
camp at the junction of the two main
branches at 6 & I am given a whole log
camp, well equipped, to myself - Beautiful
place, with dipping ^{slate} cliffs opposite.

July 1.

Up river in Gape cones as far as Round
Rock pool in Taneau township - 14 mi
from mouth. Ledges, cliffs & gravel
covered with many handsome species -
Oxytropis campestris, var. *johannei* in
occasionally dwarfed in steep banks &
with capitate clusters. *Hyoscyamus*, *Primula*
mitisinnica, *Anem. parviflora*, the fls.
with white lacunae to blue tinge outside at base.
Pinguicula only beautiful
Taraxacum alpinum abundant, bright
clear yellow. *Cornicula* ^{alp.} handsome, just
coming out on the shelves. *Thalictrum*
alpinum forms almost continuous
dense glossy green carpet, wherever moisture
& shade. Stamens deep orange brown -

Shepherdia looks silvery green at distance.
Urtica dioica local. More than
 willows. Sisyrinchium splendid,
 the very pale glaucous wings & leaves
 serrulate. Cypripedium spectabile
 by thousands in gravelly or sandy
 alluvium, with Senecio aureus, Popeledia
 & the new Comandra which is flowering
 profusely this year. Cataceps
Fernaldii abundant in fine flower.
Cypripedium pubescens & parviflorum
 & Valeriana sylv. abound everywhere
 in rock crevices! Cold shaded cliffs
 at Round Rock covered with Cystopteris.
Pellaea gracilis & a few plants of
Hoodria (montana or elephantinum), W.
Fluvis, Aralis lucida & Draba
arabizans on sunny cliffs & talus.
 (over)

July 2.

Hot & muggy. Down river to Grand Coulee.
 Salmon legs, won't rise, though
 hundreds of them in river. Wet cliffs

carpeted in spots with

since July 1 -

Most favorably beached & isolated
carpeted for acres with Dryas
Stammondi - clear yellow half-
nodding fls -

The Anemones peyssonierii - fine
typical A. riparia, & perfectly
good A. multifida with red or
white fls. Large plants 2 ft.
high like riparia but leaves of
multifida - Others similar but
fls. red. the most splendid species
of the genus - if new, A. Richardsoniana.

from above -

Selaginella sponosa, always in
mass. Deep cold cleft above
Grand Coup has Asplenium viride
& Woodsia glabella.

Heavy rain during night
Sunday, no fishing. After breakfast,

Mr. C. R. & I waded up the by
brook (West branch) for a mile
Cliffs of wet bank very high & steep,
nearly all overhung by humus & mossy
tufts in which fine tufts of
Wardia glabella - at 3 P.M.

Mr. J. X. Lavoie of Percé, Commissioner
of Gaspé Co. arrives for business with
Mr. C. at 6 Cyrell takes him & me
down to Mr. Carberry. Mr. Lavoie
recommends me to put up while at
Percé at the house of Abram
Lanfesty. John Scott of
Paspébiac, spending the night at
Carberry is jolly Scotchman & recommends
his house as having no venom, He is
also ready to drive us about country
when we reach his district.

July 4
By the Admiral to Dalhousie

July 5.

To Rivière du Loup & Fort Kent -

The following were in flower on Grand Rivière
the 1st week of July -

- | | |
|-----------------------------------|--------------------------------------|
| <i>Clematis verticillaris</i> | <i>Polygala paucifolia</i> |
| <i>Anemone paviflora</i> | <i>Trifolium repens</i> |
| " <i>multifida</i> | <i>Oxytropis camp. Johanneum</i> |
| " <i>Richardsoniana</i> | <i>Hedysarum boreale</i> (barely) |
| " <i>riparia</i> | <i>Prunus pennsylv. (passif)</i> |
| " <i>canadensis</i> | <i>Pr. virginiana</i> |
| <i>Thalictrum polygamum</i> | <i>Rubus arcticus</i> |
| " <i>alpinum</i> | " <i>triflorus</i> |
| <i>Ranunculus lymbaria</i> | " <i>stigmaeus</i> |
| " <i>abortivus</i> | <i>Dryas Drummondii</i> |
| " <i>repens</i> | <i>Gum. rivale</i> |
| " <i>sept.</i> | <i>Fragaria virgin.</i> |
| " <i>acris</i> | " <i>canadensis</i> |
| <i>Caltha pal.</i> | " <i>americana</i> |
| <i>Actaea rubra</i> | <i>Potentilla fruticosa</i> (barely) |
| <i>Saxifraga</i> | " <i>austrina</i> |
| <i>Caulophanes bicus.</i> | <i>Pyrus americana</i> |
| <i>Arabis hirsuta</i> | " <i>sitchensis</i> |
| <i>Draba arabisans.</i> | <i>Crataegus terminalis</i> (passif) |
| <i>Viola Caboti</i> | <i>Anemone rotundifolia</i> |
| " <i>blanda</i> | " <i>oligocephala</i> (passif) |
| " <i>renifolia</i> | " — (passif) |
| " <i>conspicua</i> | <i>Mitella nuda</i> |
| " <i>scaberrima</i> | <i>Ribes lacustre</i> |
| <i>Stellaria borealis</i> | |
| <i>Oxalis acetosella</i> (barely) | |
| <i>Acer spicatum</i> | |

Epilobium alpinum fontanum
Hebeclera (Barclay)
Carex *Carex*
Sanicula marylandica
Comorhiza alba
Aralia nudicaulis
Cornus canadensis
 " *stolonifera*
Sambucus racemosa (passing)
Viburnum Opulus
 " *pauciflorum* (passing)
Sium
Lonicera americana (passing)
Dieris
Galium canadense
 " *palustre* (Barclay)
Valeriana sylvatica
Erigeron hyssopifolius
 " *philadelphicus* (Barclay)
Antennaria
 "
Achillea millefolium
Chrysanthemum Leuc.
 " " *subpinifolium*
Senecio aureus
 " *Balsamifolius*
Arenaria
Taraxacum alpinum
 " *officinale*
 " " *pauciflorum*

Vaccinium canadense
 " *oxyccocum*
Epigaea repens (just fruit)
Andromeda glaucophylla
Ledum gracile
Monarda (hardly)
Pyrola asarifolia)
Trientalis
Primula mistassinica
Fragaria nigra (passing)
Syringa vulgaris
Mentha
Myosotis sylvatica
Veronica americana
 " *serpyllifolia*
 " " *canadensis*
Castilleja pallida
Aphyllon
Pinguicula
Polygonum viviparum
Cornus florida
 " *Richardsonii*
Alnus crispa (passing)
Empetrum (passing)
Cacalorhiza imbricata
Listera cordata
Hab. hypog.

Cyperus pubescens
" *pauciflorus*
" *spectabilis*
Dicellaea
Eriophorum
Syntherisma
Maianthemum
Styphelia
" *ampullacea*
Clintonia
Tofieldia
Taraxacum
Triglochin
" *maritimum*
Eleocharis
Scirpus
" *acutus*
Eriophorum
" *capillare*
" *polystachyon*
Carex
" *lenticularis*
" *maritima*
" *acutata*
" *flacca*
" *flacca*
" *flacca*
" *flacca*
" *flacca*
" *flacca*

C. capreolus
livida (fr)
aurea (fr)
eburnea
pedunculata (fr)
Conarum
scirpoides
polystachyon (fr)
Arundo
Cyperus
exilis
stellata
nitens
tractansula
Deveauxii (fr)
Hierochloa
Avena
trisetum
Poa
" *alpestris*

July 5-10 Fort Kent with Joss-
Bat. Doey,

July 11 Start with Collins for the
St Lawrence - Miss Shaw & Miss Brooks
on train bound for the Saguenay - Temiscouata
mixed train. First half of trip the 2^d
class end of car filled by drunken river-
drivers. Dined at Notre Dame du Lac -
Ar. at R. du L. in shonies - St. Lawrence,
densely foggy - Ladies decide to wait over
for bright weather. Get food rooms at the
Bellevue. Short walk after supper -
- *Geranium anense* in fine fl.

July 12 Drive in morning to the big marsh
betw. R. du L. & Cacama - *Pipula minor*
just passing from bloom - *P. asarifolia*
in woods mostly white, with faintest tinge of pink.
In pass by roadside a large *Campanula*
abundant. Fls. clustered resembling *Geranium*
andersonii. Big marsh in fine order -
Pedicularis palustris, 1000. Sol on acres.
With it in spots *Stellaria luniflora* & *S.*
Crassigolia. *Microst. monoph.* abundant.
also *Blynnus rufus*, small *Facet Goodenii*
oc. Iris Hook in fl. for the gravel & rocks -

In P.M. All walk along shore back of
Bellevue, Thal. confine in fl. *Zygadenus*
hairy in fl. *Montia* local. *Poa*
glauca in fine shape - *Carnus* *subarcticus*
abund. on crests but mostly past. A
few fls - *Grum* *naevus*, abundant here as
elsewhere in region.

C. & I follow Tenise freight track
toward town. *Comarostaphylis* *divaricata* &
Poa glauca abund. *Arabis* *Drum.* *comosa* in
good fruit. *Microstylis* *monoph.* in almost
every damp spot.

Fog continues

July 13 - C. Mrs B. & I drive to
Fraser Falls - *Lithosp.* *offic.* common abt.
Town. On rocks below falls
small *Hieracium* *virgatum* - *Cyp.* *sp.* *sp.*
infr. Boy falls - *Aspid.* *Japans* scarce -
Saxif. *arizon.* in fl. but local - *Poa* *alpina* -

4c -

P.M. clear. To Chisoutini with the
Lewis. Splendid evening, but turn in an
hour above Tadoussac.

Jul. 14. Stunning day down Saguenay

Land at St. Alphonse, Antilla Bay, no interesting
plants. During noon walk at Tadoussac
Commanda of sand R. found in sand near
the Hotel. fls white or crimson tinged. Yucca,
Arabis brachycarpa & Carex Houghtonii abundant
in Cemetery. Juniper Sabina & Pinus Banks
on dunes -

Return to R. de L.
Ladies go on to Que. In evening C & I
walk to Fausville for shopping -

Jul 15 To Bic. neat town. fair
hotel kept by Michel Pinaud, simple
but good fare. clean - accommodating.
C & I get use of large sample room for
our work. Take short walk before supper
& insect headless by wharf - Chelydra the
prevalent shrub with Juniper Sabina second -
Atriplex canescens - etc -

After supper walk back of town, Rich spring
woods - Erigeron acris on ledge -

Jul. 16 with comfortable buckboard & Chas
Wooderson as driver explore for of the "Caps"
First to the 18th island east of wharf,

Crossing at low tide, This a cliff
headland with big caue in the conglomerate
sandstone - flinty rock - *Aquilegia can.*
abund. *Draba incana* everywhere dead ripe
Hesperarum either pink or cream-white.
Fragaria anem. everywhere with 1 or 2 oblong or
obovate fr. *Saxifraga virg. fr.* *Potentilla*
ataralis tall & fern in shade. *Astragalus*
can *harden* in fl. - *Primula farinosa* abund
in fruit, a few in fl. in cold caues -
Zygadenus barely in fl. - *Microstylis*
mon. abund. everywhere in crevices near sea.
Poa glauca very variable in size, color, etc.
some beautiful violet blue & white.

On Island beyond 1st much the same veget.

Return to mainland & drive around to St. Anne
à Michaud. Then cross to island east of ~~Mich.~~
Baptiste Michaud's. Rock a fine conglomerate
sandstone. *Saxifraga aizoon* everywhere.
Symphoricarpos pauciflorus on dry slopes,
& a pale crisp *Hoodia* ^(oregana) *abund.* in exposed
crevices. *Diole* ^{gregaria} *labradorica* abund in
sunny places. *Thalictrum confine* one
clump on shore - Tide forces us to return

to mainland. To explore mt. west of
Michaux's. Steep slaty & limy rock,
with big cliff above, 500 ft. by C's
avenue. Ordinary fl- of arborescences
& spruce woods. Cliff covered with
Aspid. japonica, which becomes so abund.
we walk on it. Here test our glacier
rope & find it a splendid means to explore
cliffs & loose talus. By means of it
find Saxifraga caesp. & spend much of
afternoon exploring from above for the scattered
tufts. Lycopod Selago scaberr.

On summit Lycopod. complanatum (typical)
fully fruited. Cornus circinata com-
Rhus typhina fl at 2 ft. Habenaria hook
abund. Anabis brachycarpa, Achrostachya
& Carex Backii abund on crest & so. slope.

July 17. Drive to big exposures
Cap west of yesterday's last. Perhaps
1 mi. west beyond cultivated fields.

at west base of yesterday's last find
Sanicula discoidens? among firs. In
low wood *Trilium effusum*. In
clearing *Leucophysalis* beautiful, fls.
white with bright yellow eye.
Gentiana Amarella in fl. in dry fields
Go with rope up cliff at head of cove.
Aspid. papans very abund. Soon find
~~Asplen.~~ ^{zeiride.}
Woodsia glabella in damp pockets of slaty
rock. But while collecting it I break open a
yellow-jacket's nest. Escape gradually with
C's aid & the rope with 7 strips - *Saxifraga*
caesp. here as yesterday peatland.

On crest *Lycopod* compl. abund. The rich
mosses of crest carpeted by leaves of *Aster* mult.
var. velutinus & among these *Hab. Hart's*
Gouardia Menziesii in bud abund. We soon
cease hesitating to tramp on them!

Down by rope at edge of the great cliff - of
harder rock - about 600 ft. Beneath the
overhang in a cave at the top *Gymnocarpus*
pauca abund. In damp ravine *Woodsia*
~~*hypoleuca*~~ ^{*hypoleuca*} a like of the other ^(or near) of yesterday
Pellaea gracilis here as elsewhere.

Swing by means of rope to crevices of giant
cliff. Difficult work but Potentilla nuda

Festuca brevifolia, Draba arvensis, &

small Racomitrium was seen -

Carex sturmia in one spot - Anem. multif.

collected but rarely fruiting on cliff -

At base of cliff Poa prat. & most very large
Scleria boudanii very large & stiff, full of fl. fr.

Jul. 18 To Cap north of Baptiste Michauds

Much like yesterday - but cooler & damper.

Saxif., Aizoides & Cerast here in fl. Pyrola

Asarifolia very crimson - Aquilegia in fl -

Bolochium simplex in damp crevice - Pellaea

fraxilis large - & very spring Cystopter. fr.

measured 16 1/2 in. tall! Poa alp. - fresh in fl -

Asteris hirsuta. Osmorhiza diffusa abund.

In moss on cliff scattered flowering Cerast.

alpinum var. Beerlingianum -

Return at low water to 3rd Cap of

Jul 16 - East of Michauds, Zigadenus was
in fine fl. Rocks carpeted with Saxif.

Caesp - one mat 3 ft. solid.

Crest, sep. ^{Pelluc.} abundant in fruit on hot

Exposed rock. One ledge covered

with *Anolis* (^{Collinsoni} *Halboellii*), Damp grassy

hollow has *Botrychium Lunaria*.

Dreissia nobisana, *Trachia* -

Symphoricarpos, & *Anolis brachycarpa*

all com. *Carex Beckii* on dry slope -

Take 22.42 train to Matapedia -

July 19 - 2.45 Am, arrive at Matapedia.

Trunk contains presses & food missing.

Follow Restigouche for mile down river

Breakfast on rocks. In addition to

plants of June 28 *Astagalus elephas* in fruit

fr. at wooded crest of ledge - *Arenaria*

Richardsonia abundant, with sepals just dropped
& young fruit a multiferous dead-ripe & fruit
flying. a *riparia* matens but not flying.

Sauris *Bals*, with & without rays -

Carapae white & red-fruit *Actaea rubra* &

can detect no other diff.

By A. T. S. to Nouvelle station, Put up
at Custom House, run by ——— Allan

Trunks in general store, wherever an empty
corner. This P.O. St Jean l'Évangélist.
Nouvelle P.O. 4 miles up river at R.P. sta.
Nouvelle West!

P.M. drive up river to end of settlements.
Valley hot + fertile, good crops — Few northern
plants, Sandy alluvium full of Osmorhiza
fragrans, Delphinium, Scutellaria dips — Viola scrub,
ren — & Leek, Carex rostrata, Galium
Claytonia & Aspidium, Elms, Sugar maples —
& Balsam Poplar ^{judicious} ^{tree}

After supper to bag back of house —
on its edge Pyrola rotundifolia with large
pale white fragrant fl —! Gaultheria!

Bag to be explored later.

July 20. All to bag which with exception
of Bomandra livida might be in Mass. —

Gaultheria, Pyrola rot., Picea nigra, Larix
Sedum, Andromeda, Kalmia, etc. Then up
rocky slope covered with Helianthus pap - 6

Rhus typhina. Two spec. Botrychium
simplex in crevice. Scattered Botry.
truncatum interned. Then through spruce
wood - Lycopodium compl. tristachyon
salinae fol. itchense, etc.

Then down river to Barachon of
Houvellet. In alluvium of river
Clematis Virg. Ranunc recurv. Acer rubr.
Syrph agrost. Bidens frond. Prenanth
rac. Trillium sectum & cern. Carex
intrinsecans & communis —

On Barachon ordinary silt marsh
things.

July 4. To Culleton, Excellent
accommodation at Cullen's Hotel with the
wharf of an empty store for our work.

Rm. along beach to point opp. Light-
house. Cattle on beach - abundant
Medicago Lup. & Echinosp. Lepp-
Stellaria longipes lacta everywhere in
gravel. Botrychium Lunaria scattered,
Gilia linearis in small patches.

July 29. Am. Short walk to salt-marsh etc
near town. *Panarrhia parviflora* in damp field with
Scirpus pauciflorus. Marsh ordinary. *Hypochaeris*
abundant on gravel banks about town, also *Artemisia*
abundant. Collect various common things

Pm. To Tracabigash Point. Far better than
Carleton Pt. *Arenaria nemu*, *Stell.* *conjugata*,
Arctis hispida & *a. brachycarpa* abund. in sand &
gravel. *Batrachium Lunaria* very abundant
amongst *Juniperus Sabina procumbens*.
A small fruit of *Viola* of the *canina* group abund.
Agropyrum tinerum, *Carex sbrunea* & a slender
perennial-stemmed *Equisetum* scattered.

Jul. 23. Down RR track. *Sodium acutarium*
in road bed. By brook near mill *Juncus asp.* &
var. insignis. *Gilia* abund on gravelly bank.
Peace dr. at 10.15.

Pm. Up the small hill south of Tracabigash
Mt. *Papaver Rhoeas* & *Centaurea Cyanus* & *C. Scaberrima*
in grain fields. Hardest rock possible to climb
gritty clay-rock, sharp edges & no elasticity. Tough
digging. *Geotropa Drummondii* local. ^{W²} G - —
somewhat like *tess.* The flowers creamy with
bronze tips & fragrance of *Spiranthes cernua*
just beginning to flower. *Comorshizae* abund.

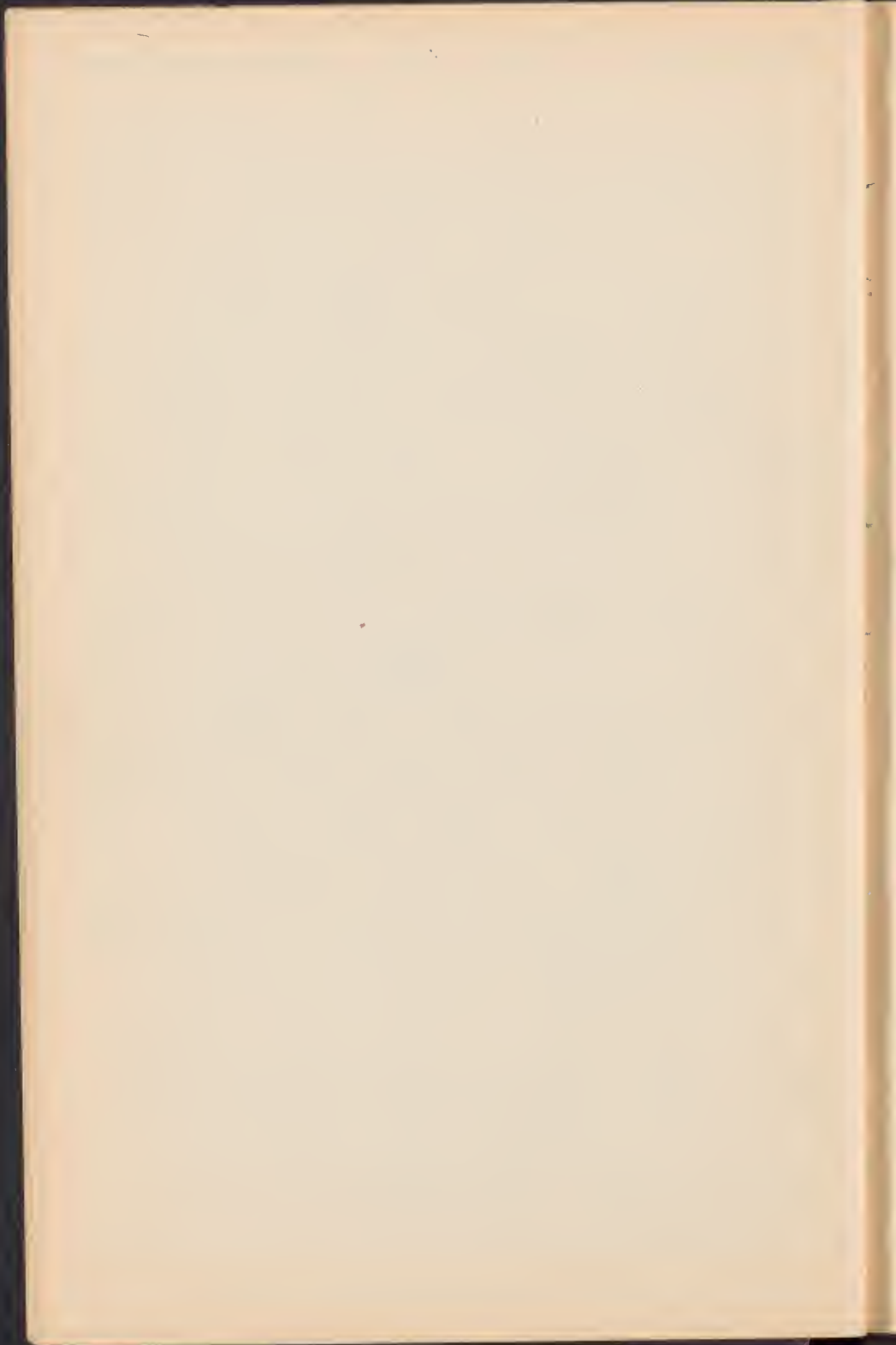
Festuca — Common in woods at Summit
(850 ft).

July 24. To Tracadigash Mt. Gilia on
gravel (red sandstone conglomerate). Steps
in edge of large Cedar Swamp — Orchis
retundifolia fruiting abundantly. All the young
rootstocks develop under the leaf, i.e.
point in same direction. Epilobium palustre
& oliganthum. Listera cordata. Hab., oleomata,
Smooth Kalnia, Carex gynocates &c. An
Siaphorium near polystachyon but very
slender small & few-flowered.

Through burn now covered with
raspberries. Fine forest. Then up stiff rocky
slope through white birch forest. Caribou
trails & droppings everywhere. Occasional
bear signs. Slope a dense tangle of
Clematis verticillaris in splendid fruit.
Stiff hard hot turf over low sharp clay-
rock. Carex Beckii abund. from 1100
ft to Summit, which Collins' Aneroid
(corrected) makes 1930 ft. Cliffs under
the Summit — cross 150-300 ft high, with
long dry talus slope below. — Page 89

most in one direction, C in other. At first
sight barren - except for caper of Saxifraga hippon,
Draba vicana + arabizans - various Poas + Patent, trid.
At east base of cliffs Aspidium Louchei abundant,
Pellaea gracilis abundant, also Aspid. fragrans.
Slender Calamagrostis (whitish) on most
exposed places. Ribes resembling oxyacanthoides
~~folia~~ but with exs. downy leaves + spirals of
spines, abundant though mostly sterile. Patentilla
livoralis + Rosa blanda on cliffs way to summit.
Echinopernum deflexum in thickets on shelves -
On chimney between recently burned cliffs + that
below the cross Echinop. ~~folia~~ ^{peruvian} abundant, Asplenium viride
in cold crevices - Lycopodium delat. gr.
Carex pratensis on slide. + in a crevice P. finds
sterile plants perhaps of Silbaledia procumbens -
July 25. To ^{Dalhousie} ~~St John~~ to Cash Am. Ex. Chicks which
are not recognized in Gaspe!

Aug 19. First spare minute to state that time
has been too crowded for a journal
writing, as usual, for the train -



Plants of Alpine and Subalpine Regions
Mt Albert, 1905, '06.

Equisetum arvense

Allen's Ravine up to 3000 ft.

E. pratense.

Allen's Ravine up to 1800 ft.

E. sylvaticum

Allen's Ravine, in wet places to the crest.

Selaginella selaginoides

Wet hornblende or serpentine slopes and in bogs.

Lycopodium Selago

Hornblende and serpentine slopes -

L. Selago, var. appressum

Hornblende crests.

L. lucidulum.

Woods of north slope, to timber-line.

L. lucidulum, var. parophyllum.

Camp at timber-line, north slope.

L. amatum.

Slopes -

L. amatum, var. pungens -

Crests (hornblende)

L. sitchense

Scrub spruce, etc. of Flaggstaff Peak, and at head of
Asbestos Brook.

L. alpinum.

Damp north slope, on hornblende.

Polypodium

Phegopteris polypodioides

Damp slopes, alpine meadows, etc.

P. dryopteris.

" " " " "

Adiantum pedatum, var. aleuticum

Serpentine from the Crests to Lac ~~des~~ ^{du} Diabole.

Locally on upper tumbled in ravines where seemingly washed down from scarp.

Pteris aquilina.

Among low spruces along Snow Brook.

Cryptogramma densa.

In dry serpentine, southern slope of Devil's Gulch -
Asplenium viride.

1 small plant in wet " " " " "

A. Filix-femina.

Abundant on damp slopes.

Polystichum scapulinum.

Southerly slopes, on serpentine (usually dry) Asbestos Brook and Devil's Gulch.

P. Braunii

Allen's Ravine below timber-line.

Aspidium fragrans.

On a boulder in the woods, Macoun's Brook.

A. spinulosum, v. dilatatum.

Damp slopes.

Cystopteris bulbifera.

Macoun's Brook.

Cyrtopteris fragilis.

Macoun's Brook. Allen's Ravine below 2500 ft.

C. montana

Macoun's Brook. Allen's Ravine below 1500 ft.

Woodsia ilvensis

Hornblende slope north of Flagstaff Peak.
Allen's Ravine.

Osunda Claytoniana

Hornblende slopes.

Oxoclea Stuehliopteris.

Allen's Ravine, below 2000 feet.

Larix laricina

Scattered and dwarfed on serpentine to the summit.

Picea canadensis

Chiefly on Hornblende.

P. mariana.

Abundant but dwarfed on Seep., rare on Hornbl.

Abies balsamea.

General, but dwarf.

Thuja occidentalis.

Allen's Ravine below 1600 feet.

Juniperus communis, v. montana.

General, most abundant on serpentine.

Hieracium adonata

Bay south of Flagstaff Peak.

A. alpina

Hornblende Crests & crevices.

Oryzopsis asperifolia

General in damp open places.

Milium effusum.

Macour's Ravine. Allen's Ravine up to 3000 ft.

Phleum alpinum.

Common on Hornblende slopes.

Cinna latifolia

Common on slopes and meadows.

Agrostis borealis.

Common on slopes.

A. hymenalis, v. geminata.

Snow Bank, Devil's Gulch.

Calamagrostis canadensis.

Common

C. Langedorfii.

Hornblende slopes, near Crest.

C. neglecta, v. borealis.

On the serpentine by small pond above Allen's Ravine, also on serp. small pond at head of Riessau à Plaque à Malade.

Deschampsia caespitosa, v. alpina.

Common on seep.

D. flexuosa

Common

D. atropurpurea

Boys and meadows. Hambl. slopes, following
down brooks of north side to 2000 feet.

Melica striata.

Common

M. striata, forma albicans.

Common.

Trisetum subspicatum, v. molle.

Allen's Ravine.

T. melicoides.

Macoun's Brook.

Nautilia spicata.

Devil's Gulch. Snow Brook.

D. intermedia.

Bag, head of Asbestos Brook.
Asbestos Brook, Snow Brook, and Devil's Gulch.
Serpentine meadow e. of East Peak.

Poa alpina

Macoun's Brook. Allen's Ravine.

Poa —

in Allen's Ravine

Poa glauca

Macoun's Brook, Allen's Ravine below 1800 ft.

Festuca altaica

Common on serpentine.

Agropyrum biflorum

Bag south west of Flagstaff Peak.

A. novae-angliae?

Bag s.w. of Flagstaff Peak. Devil's Gulch. Snow Brook.

A. carinatum

Allen's Ravine below 2000 ft.

Scirpus caespitosus

Abundant.

Eriophorum Chamissonis

Bag s.w. of Flagstaff Peak. Pond-holes in serpentine.

E. cellitrix

Bag s.w. of Flagstaff Peak.

E. polytachion

Bag s.w. of Flagstaff Peak.

Carex aenea

Allen's Ravine, below 2000 ft.

C. tribuloides, var. reducta

Allen's Ravine, below 1800 ft.

Carex Deuayana, var. Balanderi
Macoun's Brook.

C. trisperma

Bog sev. of Flagstaff Peak.

C. lagopina

Springy spots, and crevices of humblende, north slope.

C. canescens

Pond at head of Ruissseau à Plaque à Malade.

C. brunnescens.

Common

C. stellulata

Frequent in boggy places

C. stipata

C. scirpoides

Common

C. deflexa

Allen's Ravine

C. pedunculata.

Macoun's Brook.

C. vaginata

Bog sev. of Flagstaff Peak.

C. laxiflora, v. leptonervis

Humblende slopes.

C. arctata

Humblende slopes.

C. capillaris

C. capillaris, var. elongata

Macoun's Brook.

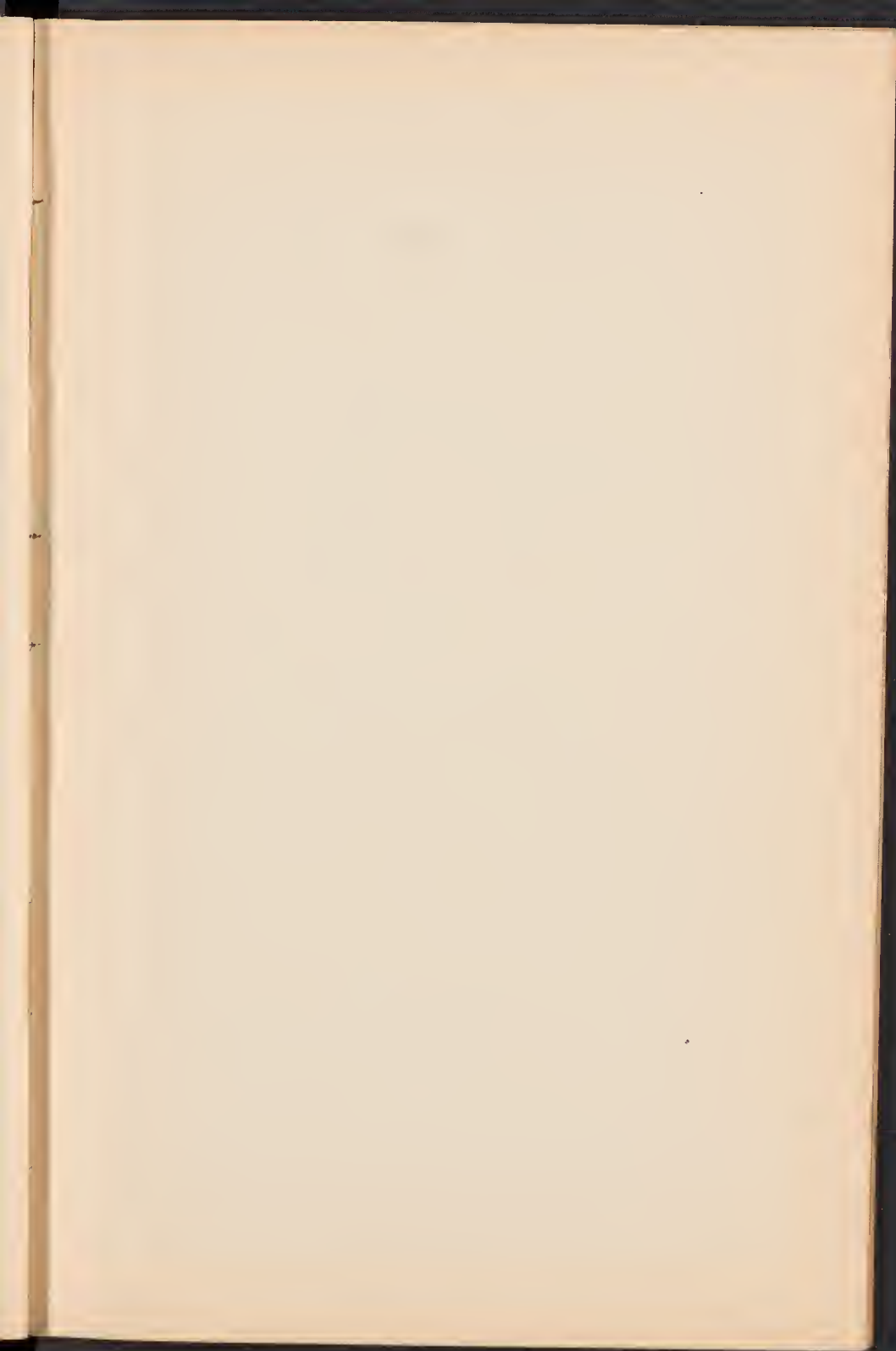
Carex paupercula

Common by ponds on the Serpentine.

C. paupercula, var. irrigua.

Bogs and pond-shores.

C.



Bruis = gumpoun

White Spruce Beer = aak

Glacé = aho.

Conicer = gyno kum. fruit eaten after frost.
Cuckton!

