

Botanical Notes

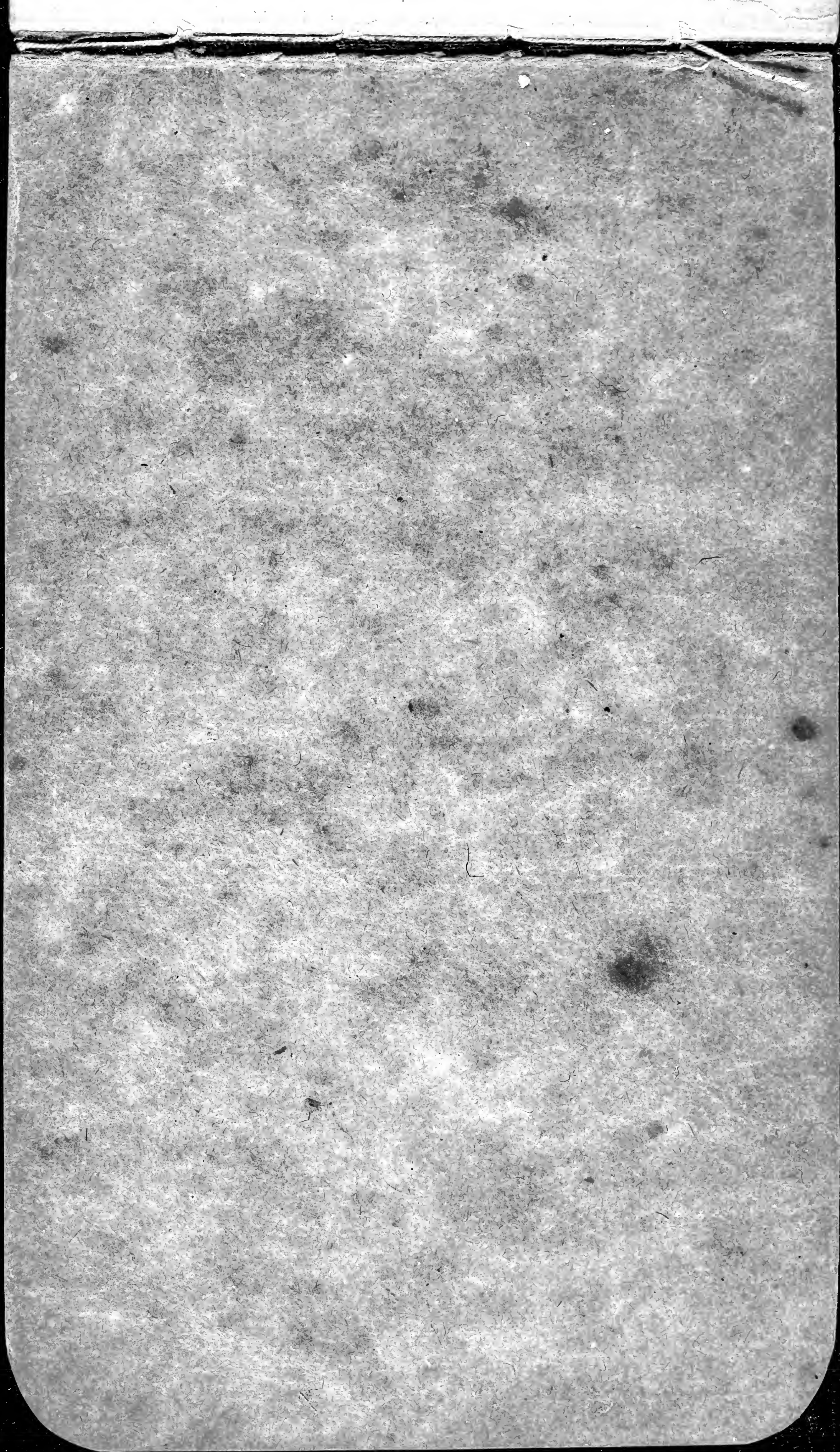
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Greytown

Phaeoerogonum

No. 5.





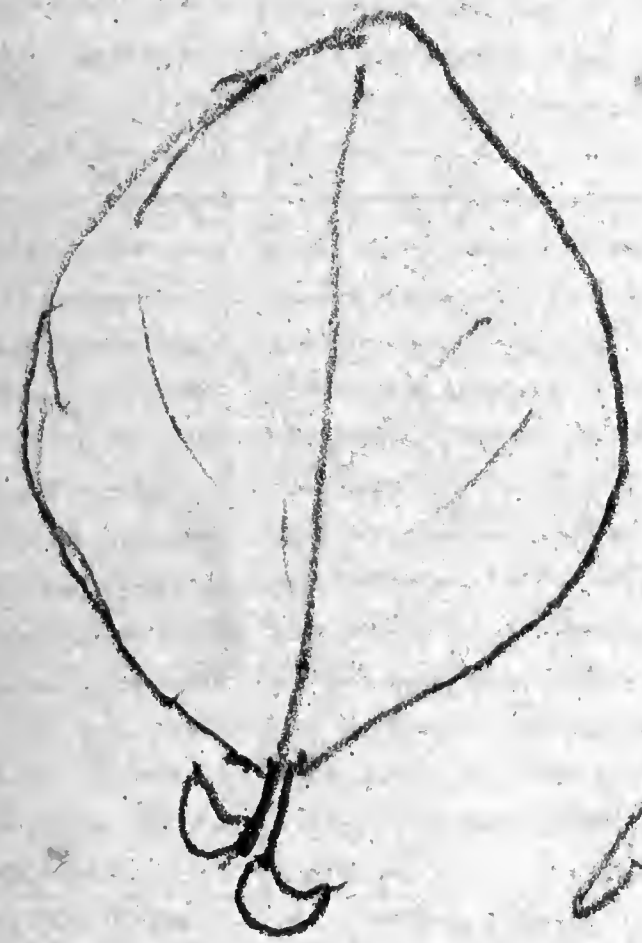


4

1.

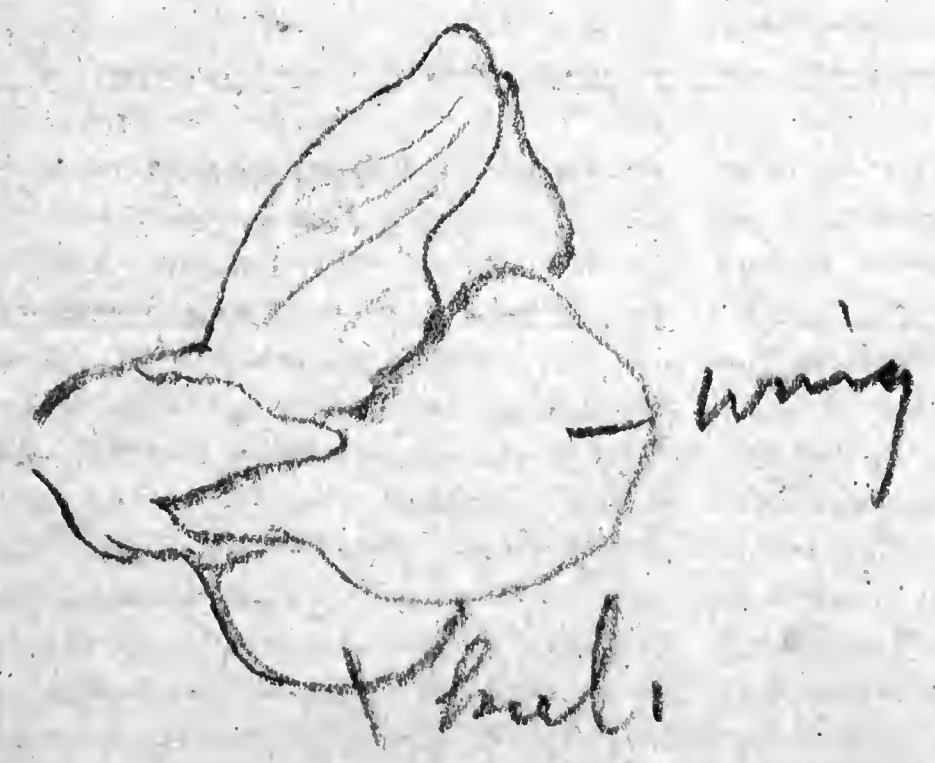
Astragalus

Plant 8-18<sup>(?)</sup> in. high,  
branching, herb, or subfrut.  
Stem green, very short hairy,  
somewhat winged or ridged.  
Lvs. alt, 2 ranks, sessile  
smooth, stip.



x1

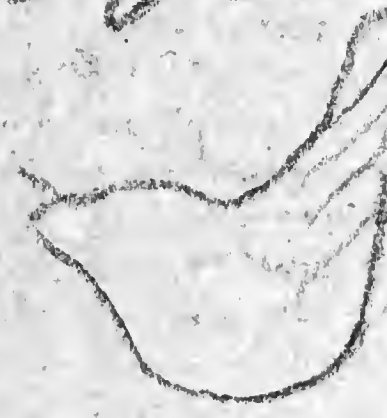
Fls. in short  
term. racemes, pale  
bluish white, with rather  
short pedicels & small bracts



Standard  
broad, rounded,  
obovate, lined  
with deeper blue  
2 fold at base.



wings deeper purple above  
obtuse, free,

 Keel x 1. Keel greenish  
(purple line at tip)

coherent, including stem & pedicel  
twisted at end.

Ovary green, sparsely hairy,  
stigma small, linear.

Style whitish, smooth.

 x 1

Calyx purple, 5 lobes, lobes  
lance, acute, greenish.

Smooth, lowest largest.

Stamen 10, monadelph, (split  
above) filaments white,  
smooth, anther yellow, small.

Root a simple taproot.



2

The great long Sphorocarpus.  
Form one 144 ft. long,  
vine smooth, milky, prostrate,  
purplish green.

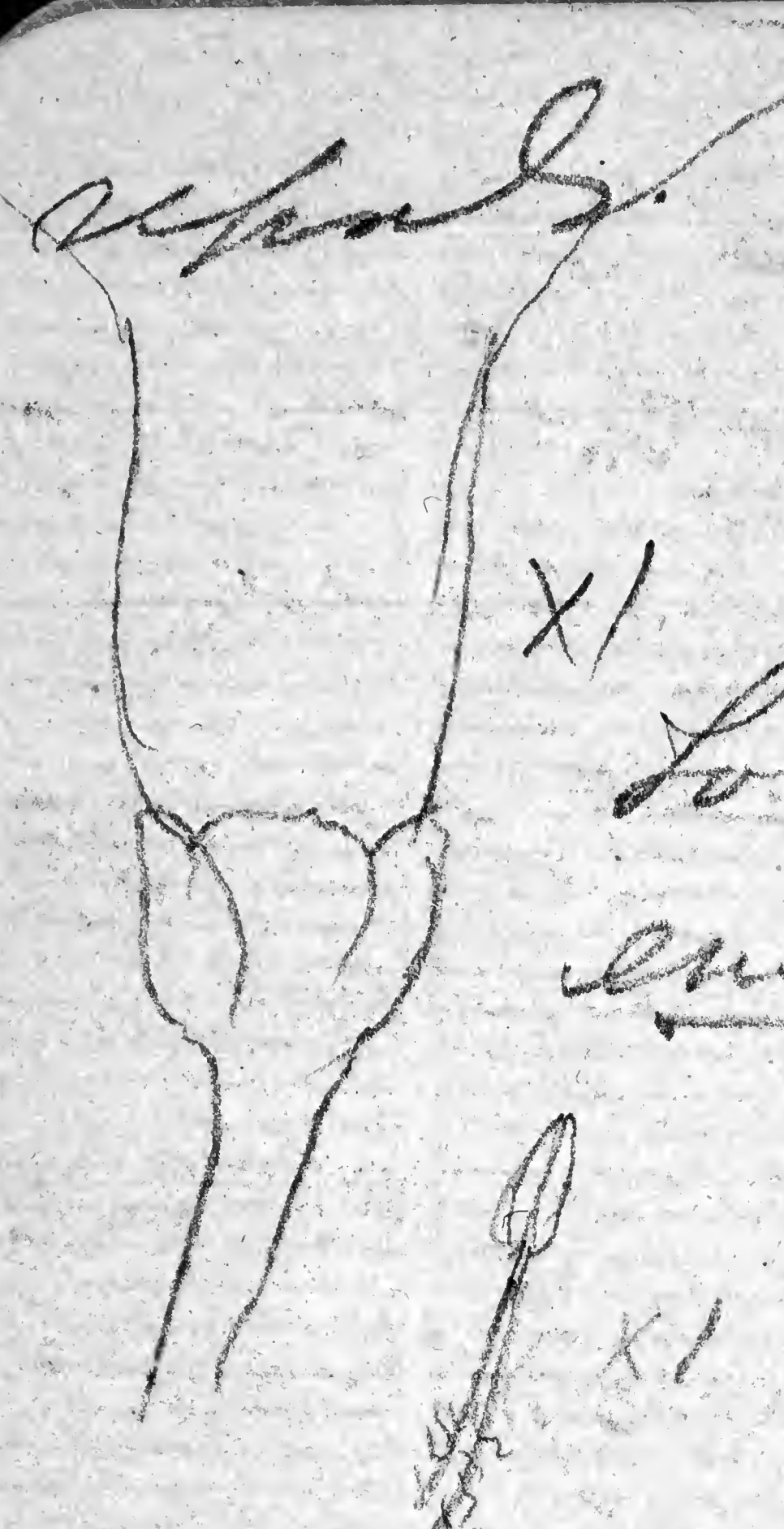
Leaves alt, pet. 2' long,  
blade cordate, rounded,  
emarginate. Smooth, primary  
entire.

Fls. in axils, few flowers  
cluster a green much  
petalish  $1\frac{1}{2}$  - 2 in. long.

Fl.  $1\frac{1}{2}$  -  $1\frac{3}{4}$  in long, red, corolla  
unwaxed, five shallow lobes,  
tube inflated, border  
not very broad.

calyx of 5 green, ovate, <sup>top</sup>  
cuneate, red margins





Fls. in  
few flower  
umbels (?)

x1

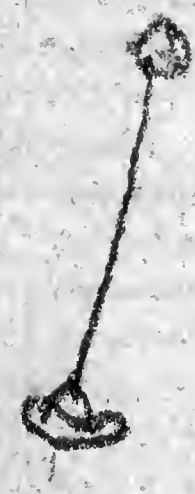
Lobes of corolla broad,  
emarginate.

x1

Stamens 5, white,  
fil. hairy at  
base, anther

innate, 2-celled,  
included.

Stamens opposite, on  
very base of corolla.



Style slender, stigma  
large, bushy; all  
white

Ovary superior, smooth,  
on yellow disc.

Ovary 3-celled  
One seed at America



3.

White morning glory.

Or sands at America.

Vine slender, prostrate,

10' long,

Leaves all,

slightly serrate,

smooth,

Fls. mostly solitary,

in axils (as in fig. pl. cluster)

Corolla white, of the usual  
morning glory form

Pedicels fleshy = calyx,

calyx of 5 acum. green,

ovate shapes.

(See fruit.)





4

Large pea - 8-10'  
long, prostrate on sands  
at America (see fruit)  
Stem nearly smooth (very short  
appressed hairs) green,  
hr. all. pet. 1 1/2' long  
Leaves 3, oblong, rounded  
entire, smooth, bluish,  
about equal, middle one  
long petioled.

Fls. in axillary racemes,  
usually 2 from one axil  
Corolla bright red.



x1.

Partially  
whitish lower  
hairs.



Standard strongly emarginate  
broad. Wings adhearing  
to keel, obtuse, red.  
Keel, coherent, inclining  
stamens 7 pist.

Anterior yellow, venate, 2-lobed,  
fil. white, smooth  
Stamens 1+9, though in  
the fl. that I examined  
they seemed to cohere.



Ovary smooth, greenish,  
style white, smooth,  
 stigma minute, brownish.

Calyx green, membranous,  
with 5 short broad  
lobes.



The red-flowered Epiphyte  
on trees at Camp Mearns  
Plant 6'-18' long, rooting  
at joints, all hairy, stem  
less, fls.

(General app. of that jointed  
Epiphyte from Castillo.)



corolla hairy, 2 lipped,  
Larger lip 3-lobed, middle lobe  
largest, (obtus?) (2 tips)  
lateral lobes triangular  
smaller lip short & scarcely



if at all, lobed.

Style long slender, white, hairy  
towards tip, stigma capitate,  
small, — longer than corolla  
filament, if attached at very  
base to corolla (?), filament  
long, slender, red,  
very sparsely hairy, anthers  
2 celled, each cell 2-lobed,  
uninucleate.

Calyx green  
hairy, monoph.  
calyx  
deeply 5-lobed, lobes  
acute, lance.

Flower — axils (solitary)  
on short thick peduncle.  
Stem brown. Leaves opp.  
hairy, very obscurely serrate.





Stipules scale-like (sheath-  
like) light brown.

~~to~~

From the fleshy flowered  
tree (same as that in  
Swamp at Muzogalpa  
on which hunters got  
his bones) at Guayana

Also the Siberian crab  
like Pine - small  
tree (found at Muzogalpa)

Also the blue flowered  
shiny (glaxy) plant  
at Castillo - found at  
Green Swamp



May 1900

6.

The shrub - 2<sup>o</sup>-6<sup>o</sup> high, on  
 sand at American, with  
 West Ind. Plum fruit (see  
 fruit in alc.)  
 Stem brown, with light  
 lenticels - Lvs. all  
 obovate, tip broad &  
 slightly emarginate, entire  
 smooth. ~~Thickish~~  
 very short brown petiole; no  
 stip. fls. in short  
 axillary cymose clusters  
 fls. sessile on the short thick  
 branches of flowering stem.  
 Calyx of 2 small, ovate,



acute greenish sepals,  
(three are bractlets).

There are 5 greenish sepals  
(possibly nonsepals) +

5 white petals.

The flower is like  
that of the West Ind.  
Plum as I remember.

Grey town.

See fruit.

7-

Shrub 10-20 high, with  
fruit like Hop tree.

On sands at America.  
Fls. in short, compound,



thyrse-like clusters —  
greenish. Bracts  
fleshy, narrow.  
Receptacles = to fl.

♂ fl. x 10      Sepals 4, lance-ovate,  
greenish, obtusish.  
Stamens 8, white, 2-celled,  
yellow, = sepals, introrse.  
Ovary 3-celled, 3 angled,  
each cell more than 10 angled  
(few), superior,  
smooth. Style exserted,  
thickish, stigma terminal.

See found  
~~Amphibium~~



8,

Low yellow Composite at  
Greystown.

Plant 3' - 8' high, branched,  
erect.

Stem decumbent green, cylindrical,  
with white hairs, sparse  
below.

Low sp. slightly succulent

erect, with short spines

above. Herbaceous.

about 1/2' tall. Leaf 1/2'

Heads term, branched,

or stem, with

about 8 rays

& a good many  
disc flowers.

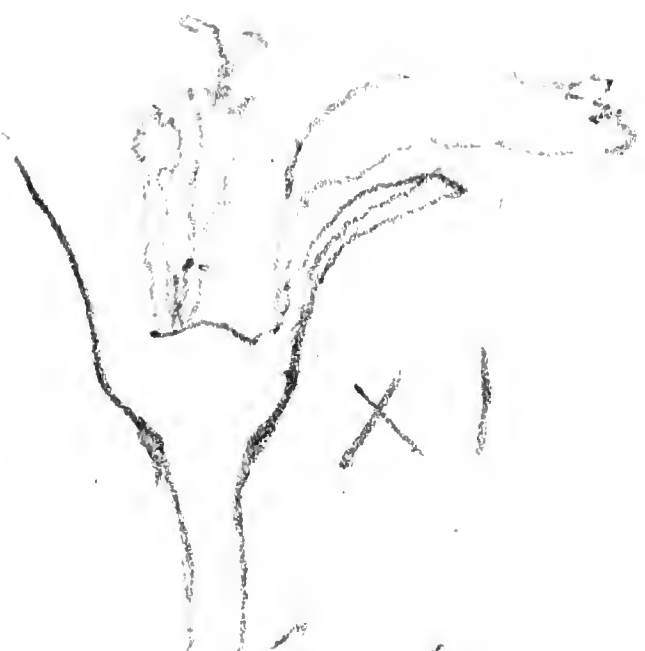




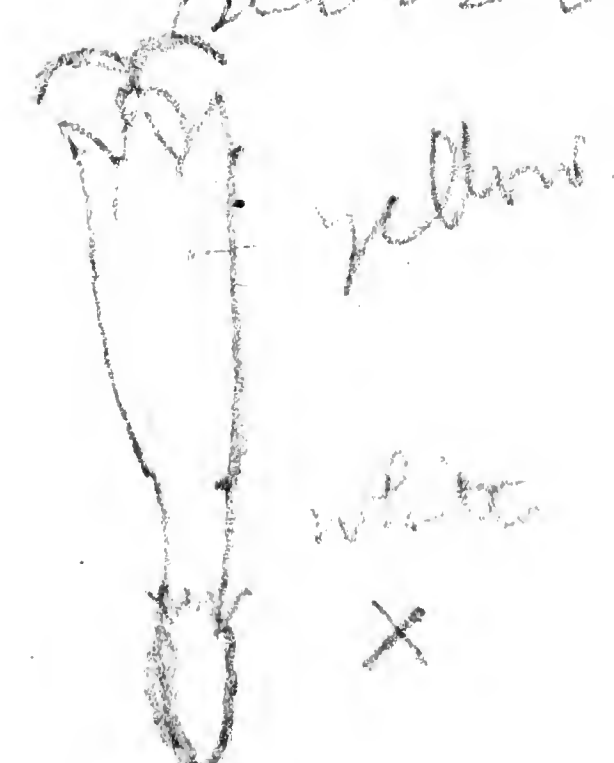
disc flowers.



~~Leaf~~ Invol. of fev  
green, lanceolate, hairy  
acute scales, less than rays,  
somewhat spreading &  
foliaceous, in one or two rows.



Chaff of white scales, with  
yellow, broader,  
seriate tips.



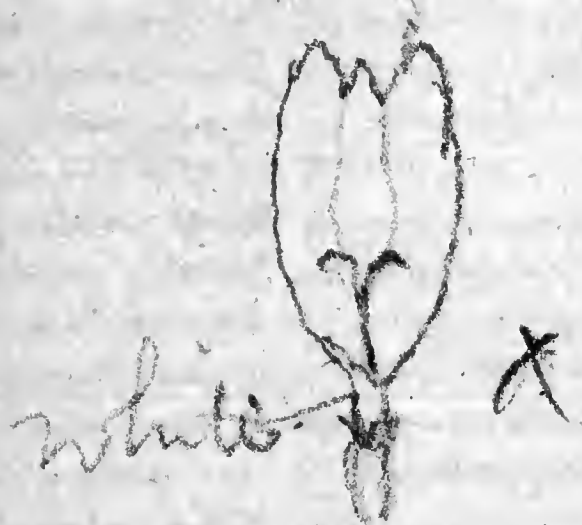
Disc flower regular  
5 lobed, lobes hairy,  
yellow, pappus of  
short scale-like bristles



or bristles, a beak smooth,  
somewhat compressed.

Stamen dark (almost black)

Stigmas yellow, hairy, brush  
not very large.



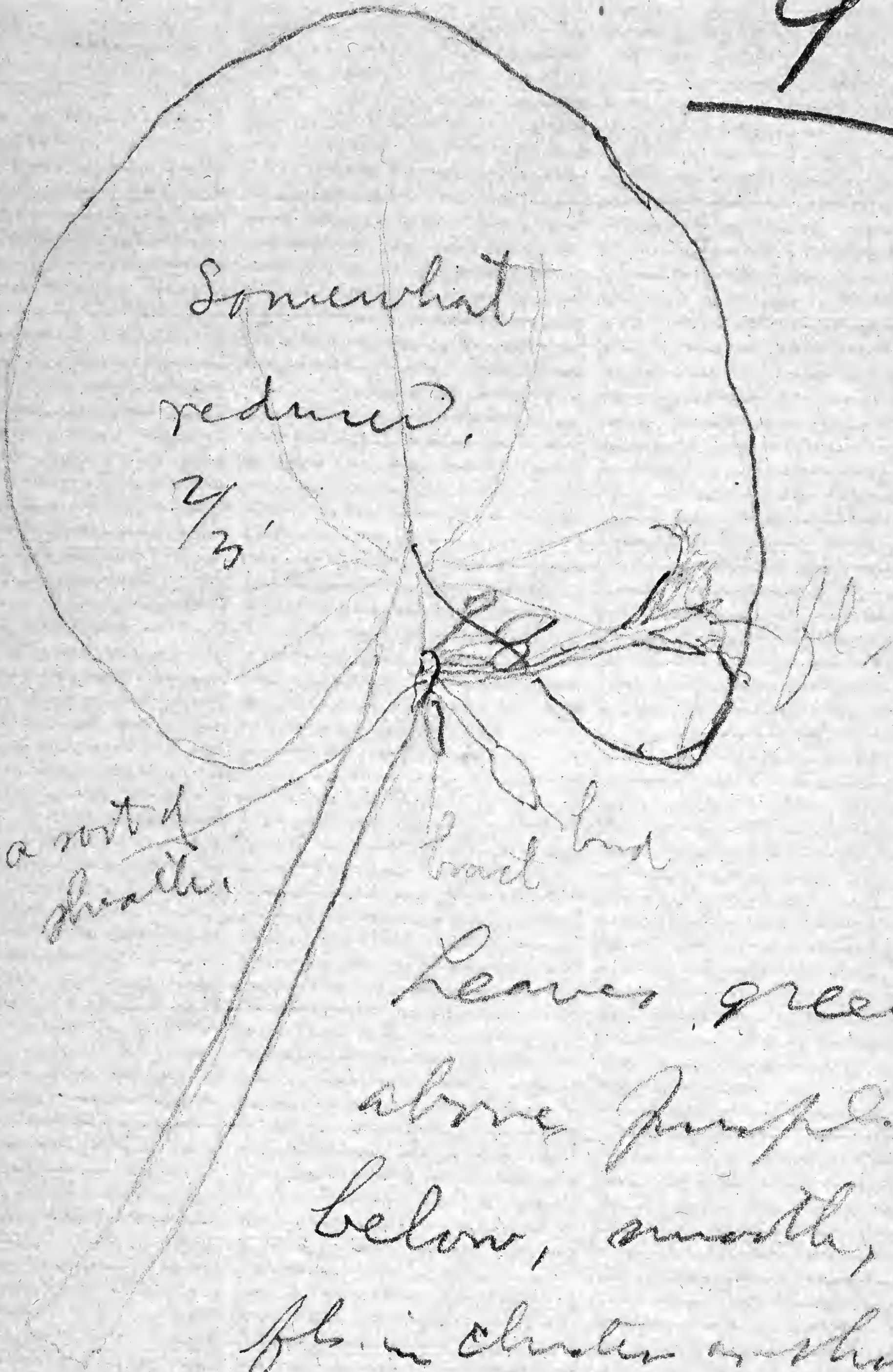
Rays yellow, about 3.

lobes at tip, pistillate.

smooth.



9



Somewhat  
reduced,

$\frac{2}{3}$ '

a sort of  
sheath.

bract bud

fl.

Leaves green

above purplish

below, smooth, entire.

fl. in clusters as shown

above. Reduced thickened

clay-like,

Sepals 5, green, lanceolate,  
obtus., smooth.



Corolla monopetal, deeply 5  
lobed, white, lobes linear,  
acute, with very many white  
fluffy hairs above,  
yellow in tube inside.  
Stamens 5, all, within  
2 cells, filaments long, introrse  
almost scrub in tube of  
corolla. A tuft of  
yellow glandular hairs on  
tube of corolla at base,  
alternating with stamens.

Ovary green,



smooth surface,

style tapering, smooth,

greenish, stigma

white, 2-lobed.



erect. Many one-celled,  
a parietal placenta,  
ovules numerous.

Found in water &  
swamp - America, etc.

10

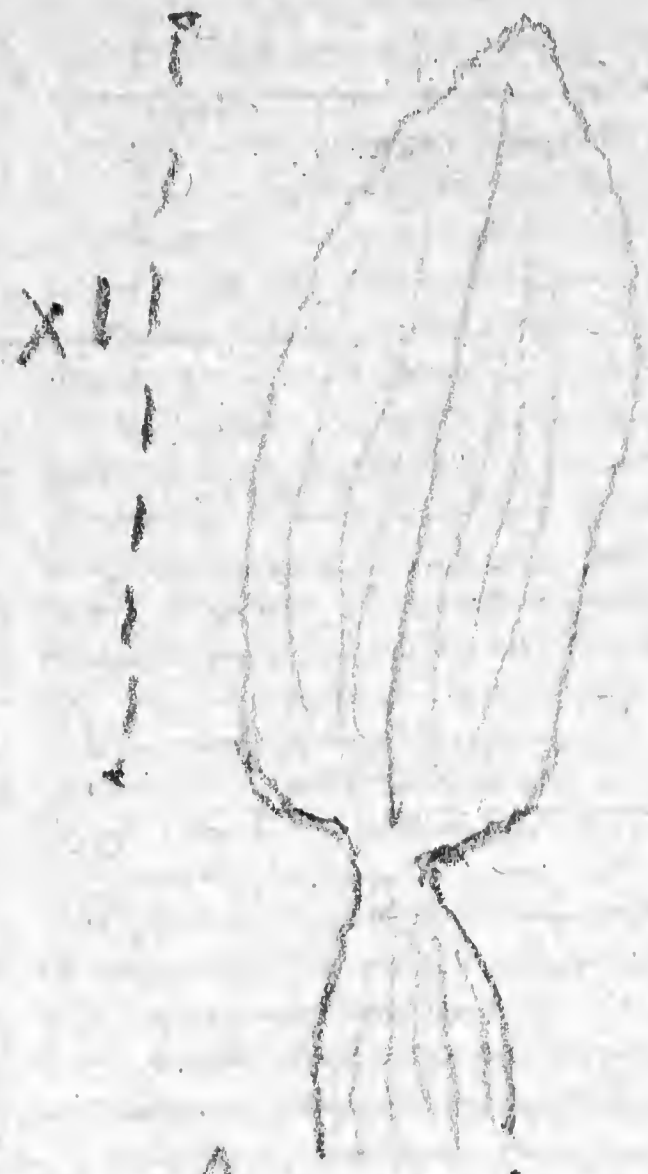
Small, blue-flowered Compositae  
(seem to have more than the  
2 large erect petals)

6'-8' high,

Stem smooth, dark green,  
stipules membranous, cordate,  
appressed, hunched, ragged,  
sheathing.

Leaves alternate





Leaf with sheath split &  
opened. Leaf green, covered  
above & below with a sort  
of granular hairs (very  
short.) The bract?

enclosing flower is regularly  
heart-shaped, green smooth,  
acute, & doubled over  
Fls. 2-3 (in each bract)  
These "bracts" with flowers  
spring from nodes



instead of leaves, & are  
"petioled".

The upper leaves are  
sometimes more deeply  
cordate.

II.

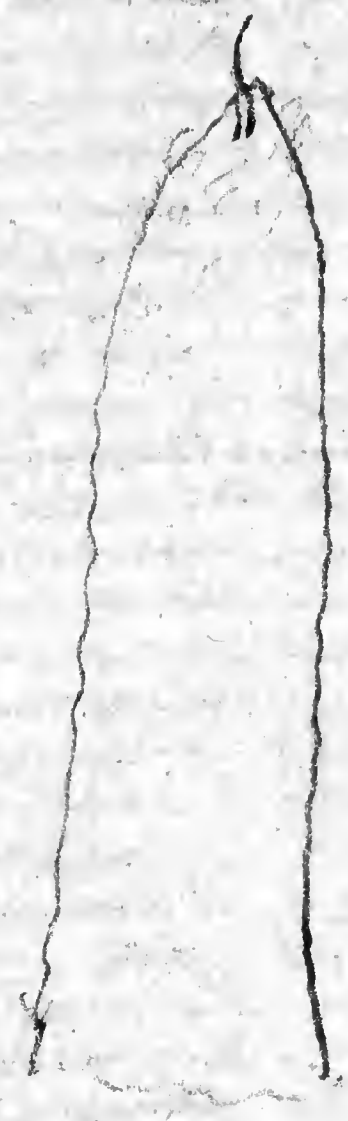
The tall plant with  
alt. lvs., looking like  
my spicy, twisted, glabrous  
like plant from Laguna  
The plant is 40-70 high;  
the odor not so pleasant, &  
top is not terribly.

Graytown



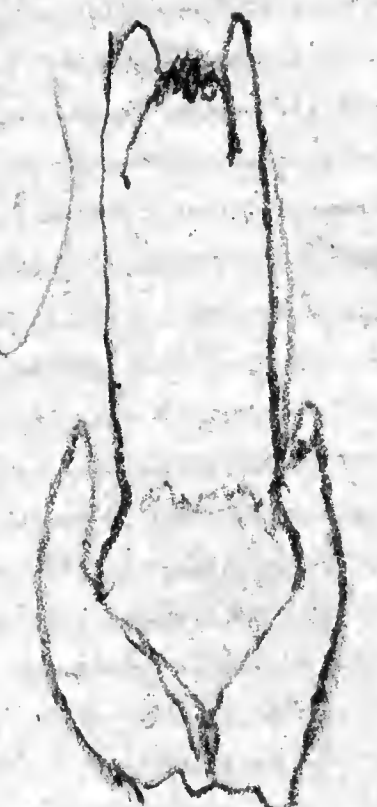
fls orange reddish,  
 in close terminal spike,  
 bracts long,

orange yellow  
 short hairy.



bract x 1  
 (not all have  
 the bristle)

(old fl.)



p. x 1

Fl. sessile.

~~calyx of 2~~ bracts  
 brownish, hairy, ~~at~~

each beaked.

calyx narrow p.  
 2-lipped, somewhat,  
 lobes. inferior.

inflor. below,  
 3 lobed, hairy

another flower has 3 lobed  
 calyx + yellowish 3 lobed



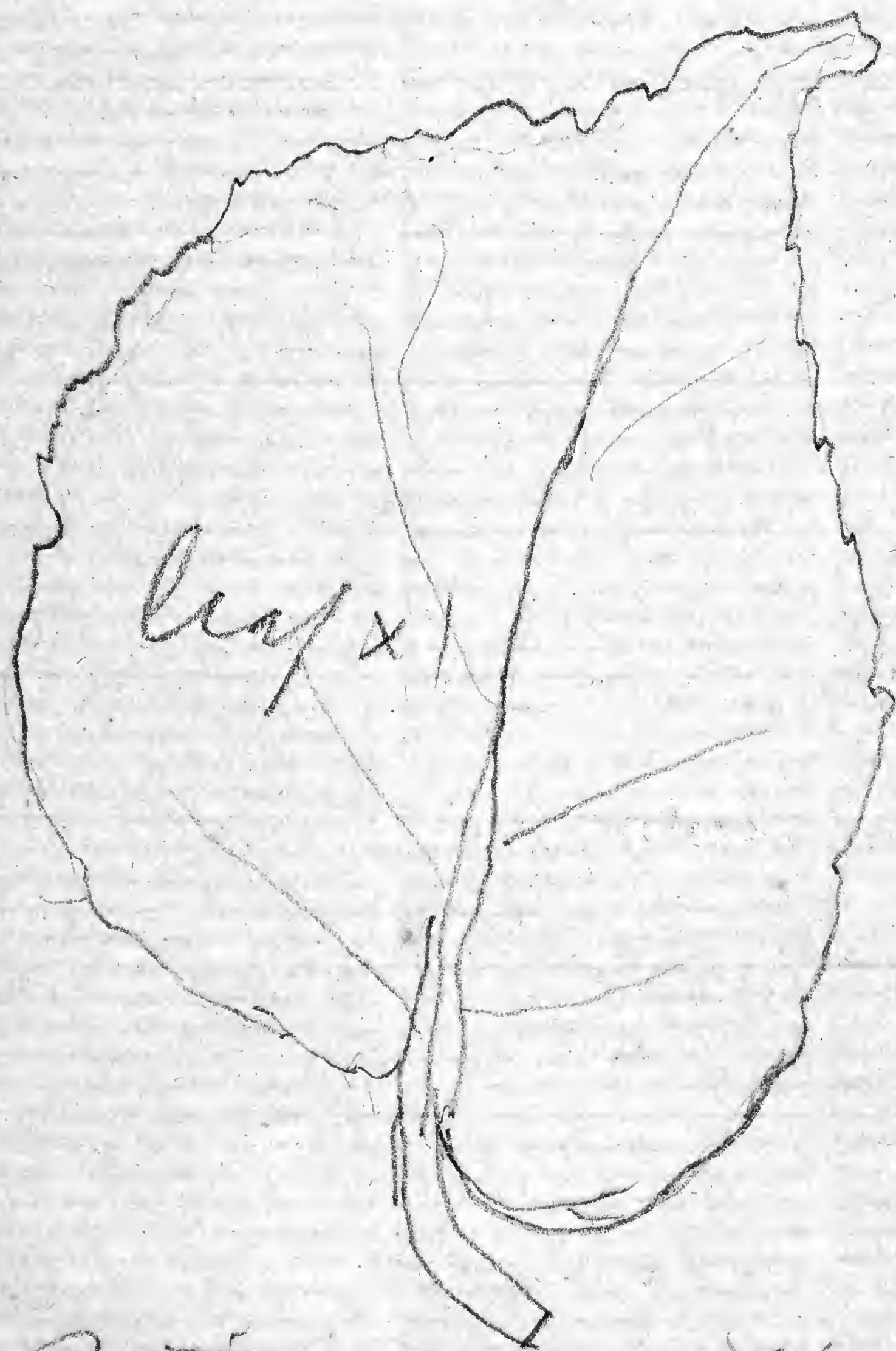
corolla (from upper part  
of cluster).

In this there seems to be  
one very large anther between  
whose 2 parts lies the slender  
style & flat, reddish & white  
 stigma. Ovary superior  
ovelled? with parallel plac.  
The 2 anther cells, (or  
anthers?) are joined to  
a flat body which  
is almost like another  
lobe of corolla.  
Lvs. 6 alt., sheathing  
the stem, ellipt. lance  
ovate, entire, smooth,  
parallel veins, acute.



12

Begonia, with fls. in  
panicle - growing  
erect, branching,  
low alt, stip. large,  
membranous.



Petiole smooth, red.



blade light green,  
mouth (shining) both  
sides. Fl. stalks

more or less shining.

Camp Meneval,  
(see front)

Found the yellow fl.  
shrub (at first like  
Muhlenbergia) of  
Castillo at Camp  
Meneval.



Blm. fl. shrub - Menziesii.  
Fls. in term. cymes (thyrse  
like) shrub spreading,  
4'-8' high.

Lvs. opp. obovate (rather  
narrow) entire, acuminate,  
primarily smooth above,  
hairy below, 6'-8' long,  
3'-4' wide  
Stip. rather large, obtuse,  
greenish, hairy. Petioles  
short, hairy. fl. stem hairy.



fl. not parted yet  
x1 Corolla blue, short  
hairy, 5 short  
lobes.

stamens 5, alt. fil. short.  
anthers whitish, 2 cells, not  
corolla tube white hairy.



inside, except at base.

Stamens included.

2) ovary superior, smooth,  
style white, smooth, 2-lobed  
stigmas 2- (term. P.), white

flat, valved.

No ray fls., disc fls.

pink.

15

Herb 4'-6' high, bright blue  
berries. Perennial.

Entire plant with scattered  
hairs. Lvs. opp. petioled  
ovate, acute, entire. 2' long (with  
pet.)  
Pet. slightly wavy.

W/ stem. fls. nearly sessile, 2 or

3 in each axil,  
calyx superior, 4 narrow green  
lobes. ovary 1-celled, 2  
par placentae.



Blue fl. shrub - Menziesii.  
 Fls. in term. cyme (Corymb  
 like) shrub spreading,  
 4' - 8' high.

Lvs. opp. obovate (rather  
 narrow) entire, acuminate,  
 generally smooth above,  
 hairy below, 6' - 8' long.  
 Stems rather large, obtuse,  
 greenish, hairy. Petioles  
 short, hairy, fl. stem hairy.

Nodes small & very many & look  
 down like on a free central  
 vascular. Calyx short  
 green, hairy, 5 lobed;  
 lobes  $\Delta$  acute.



14

Herb pink composite  
Soybean - lettuce like  
not milky  
Pappus globe capitate  
Fine hairs - recept.  
Flat, naked.  
No ray fls., disc fls.  
Pink.

15

Herb 4'-6' high, bright blue  
berries - Menonon.  
Entire plant with scattered  
hairs, lvs. opp. petioles  
ovate, acutely entire. 2' long (with  
pet.)  
Pet. slightly winged  
V. sup. fls. nearly sessile, 2 or  
3 in each axil,  
calyx superior, 4 narrow green  
lobes, ovary 1-celled, 2  
par. placentae.



Sent Mr. Harris  
papers to Castle  
but everything else  
to Exytown.

Sent <sup>H.V.</sup> Mr. Miedly  
shells. (make out  
a set of smaller  
ones.)



Thurs,

Sat.

Mon.



PROMENADE

PASS  
BOX

