ORCHIDACEAE

ARUNDINA GRAMINIFOLIA S. 1976

NARAIKKADU

HERBS

PART I

வனத்தில் உள்ள பச்சையான எல்லா விதை இலைகளை,
வெளியில் மூக்கும் அந்தமான மலர்களின் ஏராளமை,
என்னோடு கூட நீங்களும் அனைந்திணைந்து போற்றவும்.

திருமுறை 232:4.

Consider the flowers of the field, how they grow;
Solomon in all his glory was not arrayed like one of these.
If God so clothe the grass of the field,
shall He not much more clothe you?

Matt. 6:28-30,

September 1942

X = mountain-tops.

C. J. Webb Poplar.

2

58

Polygalaceae

POLYGALA JAVANA

Fl. Pink.

Fr.

Leaves

Branching, Tall.

View Point.

58. F.22. 3

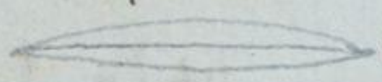
POLYGALA ROSMARINIFOLIA

Polygalaceae

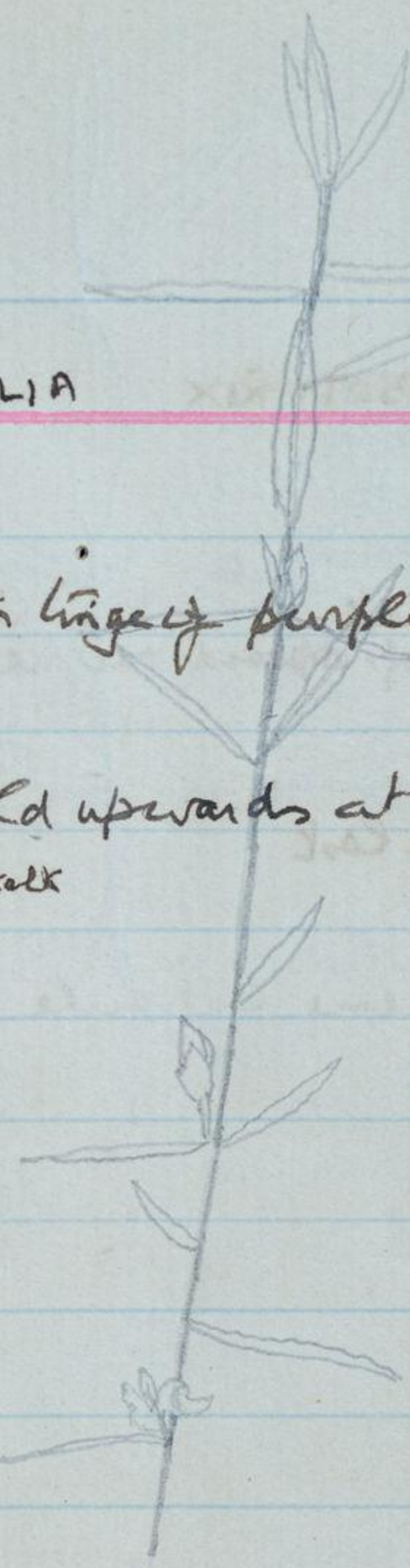
Fl. Small, yellow with tinges of purple on the wing petals.

Fr.

Leaves. Very small folded upwards at night. linear



Under 6"



Upto 1' tall, sometimes

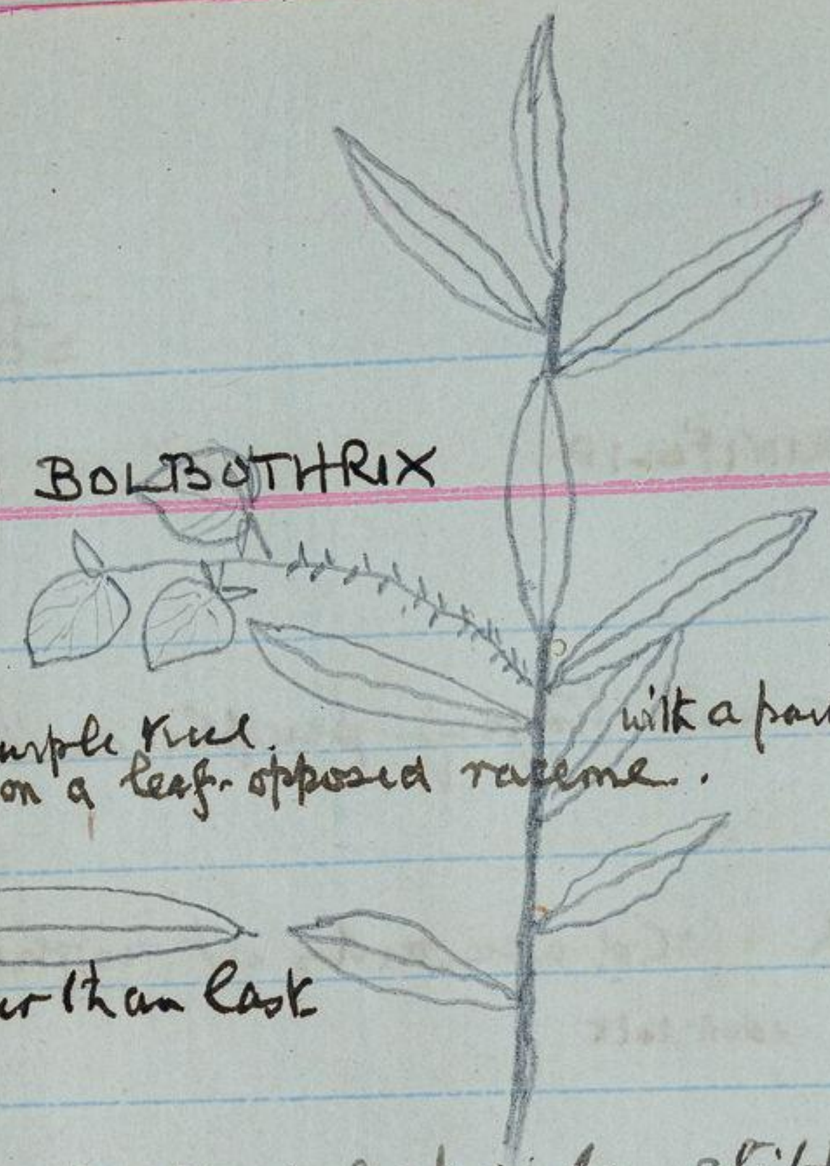
On the Mottai, lower grassy slopes.
On upper path to Jungle House, all up last long gentle slope.

4

58

Polygalaceae

POLYGALA BOLBOTHRIX



Sept.

Fl. yellow, purple keel. with a pair of very conspicuous yellowish sepals
on a leaf-opposed raceme.

Fr.

Leaves larger than last

upto 1 ft tall.

Stem raceme capsule stiff white bulbous based
spreading hair

On W. slope of Kottankai Thutti. in thin grass. Sept '45

5

90

SIDA RHOMBIFOLIA

Malvaceae

Yellow Sida

Fl. Peduncle jointed in middle. Half (near the top) Saffron-yellow.

Fr. Carpels awned 8 or up to 10.

Leaves, Tomentose, serate. 1½" × 1" blunt acuminate.

On the Path N of & beside the Gardeners' House

May 71 Ravine Near steps to Jungle House

6

92. F. 39

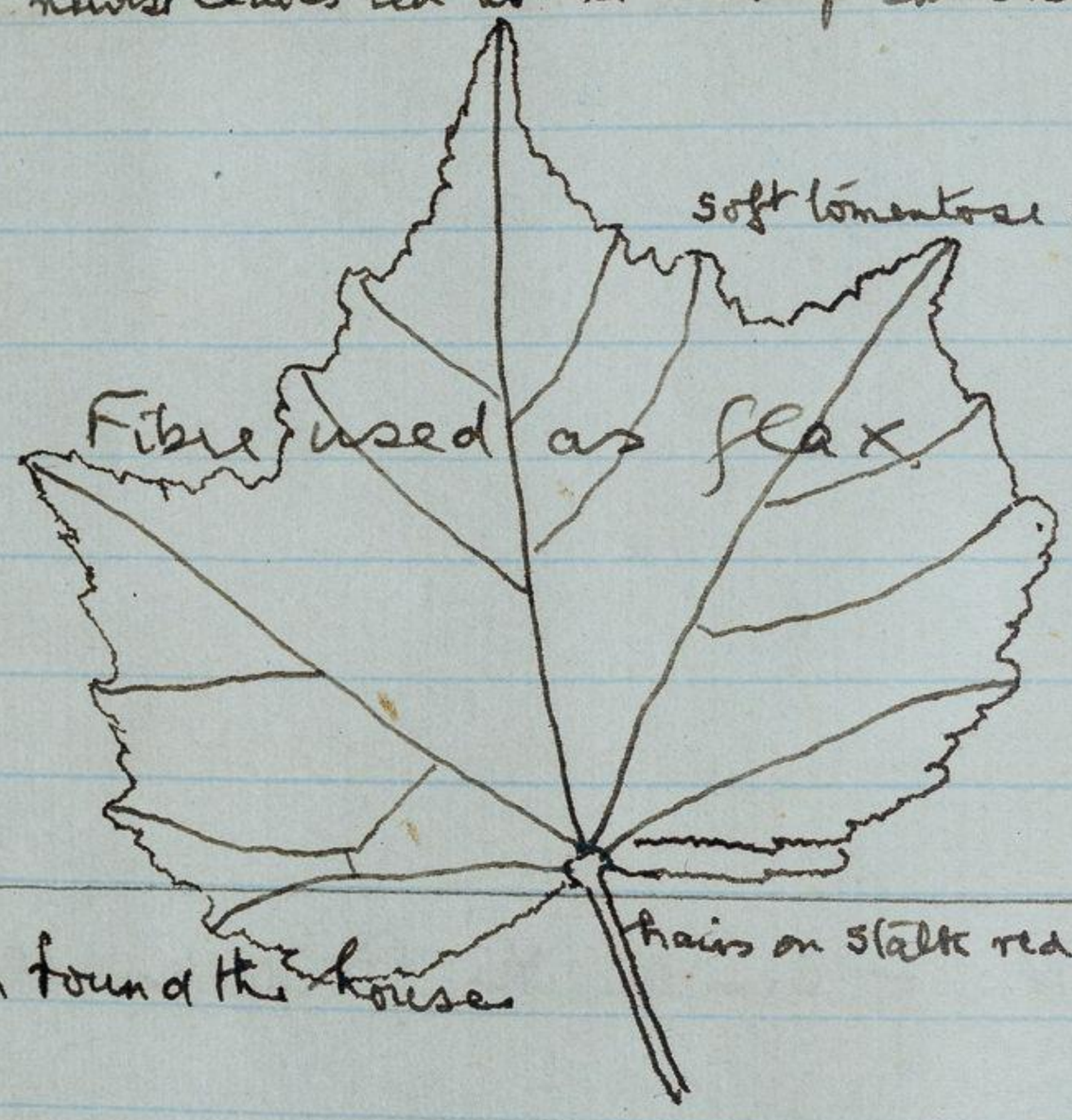
Malvaceae

URENA LOBATA

Fl. Pink.

Fr.

Leaves newest leaves red at the head of each stem.



120. 7

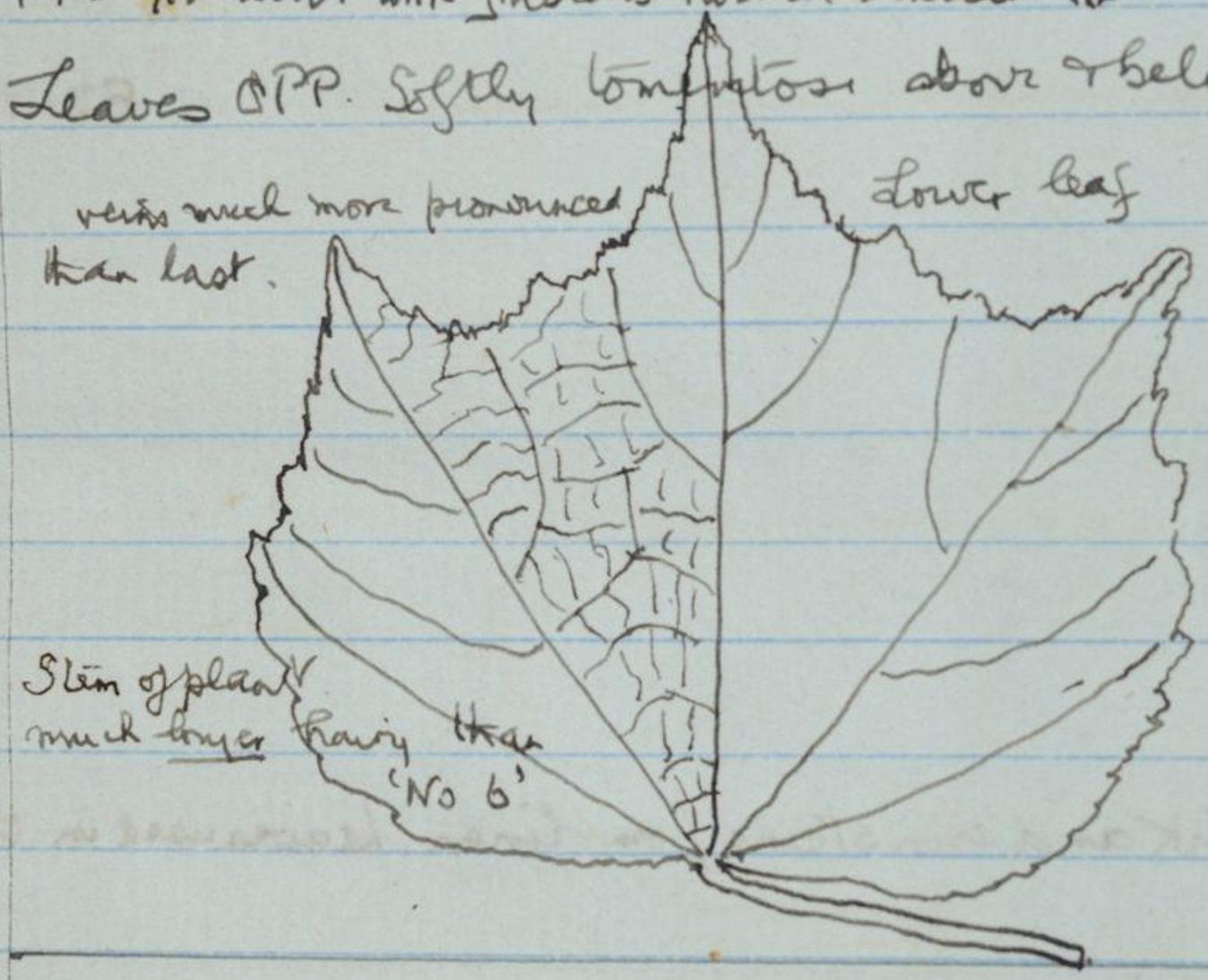
Tiliaceae

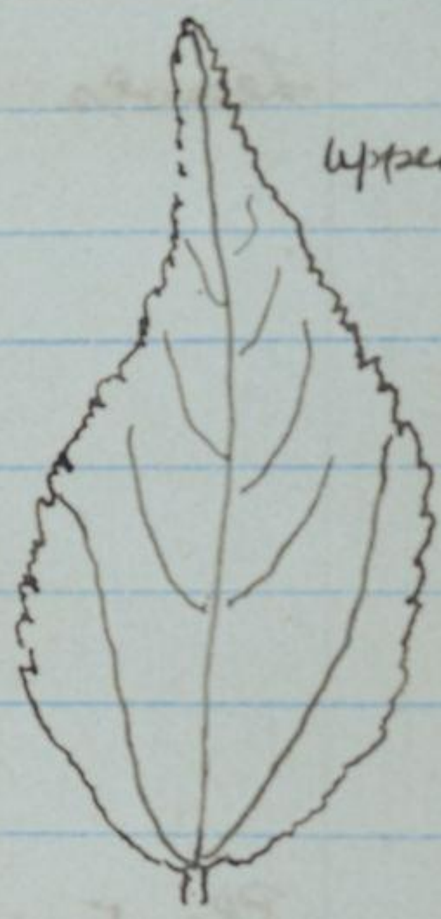
TRIUMFETTA RHOMBOIDEA

Fl. Yellow

Fr. Globular with scabrous hooked bristles

Leaves OPP. Softly tomentose above & below





8

132. F. 47

OXALIS CORNICULATA

Geraniaceae

Yellow Wood-Sorrel.

புளியாரைக் கீரை

Fl. Yellow

Fr

Leaves

EDIBLE

Plant removes ink and iron stains from linen. Leaves used in Chutney

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Round the Houses.

9

G. x F.50

Geraniaceae

OXALIS TETRAPHYLLA

Pink Wood-Sorrel

Fl. Pink

Fr

Leaves

An introduced plant. In the Garden.

10

140 . F. 65

IMPATIENS PUSILLA var ROSMARINIFOLIA

Geraniaceae

Fl. White with purple markings on inner part of wings singly, on thread-like stalk in leaf axil. No spur Very small (Sept)

Fr.

Leaves v. narrow + small

Elephant Path. S of Kunoonie in damp parts where tiny streambeds flow down. Common

Promnid land in shade on Shola edges + on wet rocks near Shola edge. Common.

143.F.71 11

IMPATIENS HENSLOWIANA Geraniaceae

Fl White (Sept) Large hairy ovary and spur.
pedicel dark red
Fr.

Leaves. Hairy

much scarred stalk from fallen leaves

(By Vengenayakan Anicut.
Orange Path, at its upper grassy view point.
S. Slopes of Kunnoor by streams in the forest

12

310

Leguminosae

INDIGOFERA PEDICELLATA X I. Papilionatae. 3. Galegeae

Fl. Red. (Sept) very small.

Fr.

Leaves COMP Leaflets 3 Brown hairs on veins below, lucid-punctate

Brown hairs all over the plant.

On the grass slopes of Kunnoonie and K.K.T.

13

319

Leguminosae

TEPHROSIA TINCTORIA — T. Papilionatae 3. Galegeae.

Orange Tephrosia

Fl. Bright orange-red, fairly large in axillary racemes (Sept)

Fr Under 2.5" long

Leaves 3-13-foliate, the end leaflet usually the longest. COMP.
woolly underneath, above glabrous.

1-2 ft. tall, with golden brown pubescence.

On the grass slopes of Kumaon a K.K.T.

14

333

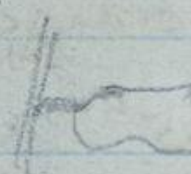
Leguminosae

PYCNOSPORA HEDYSAROIDES I Papilionatae .4 Hedysareae

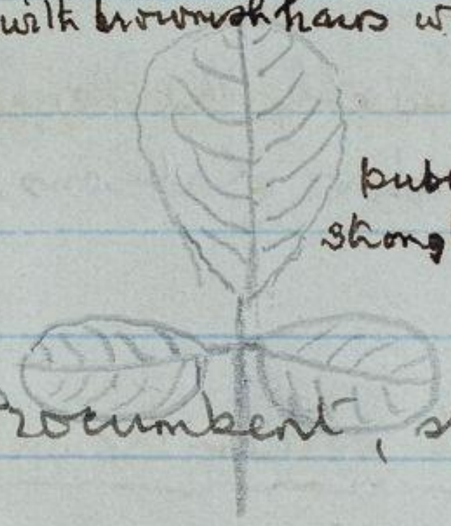
Purple Pycnospora

Fl. Purple. (Sept)

Fr. Swollen 2 valved 6-10 seeded. covered with brownish hairs when green.



Leaves.



Procumbent, spreading.

On path fr. W. corner of Garden where water channel comes in, going East.

In grass on small open grass patches in the middle of Forest. Path to Manshola Mottai

F. 125.

348 15

Leguminosae

DESMODIUM ~~GANGETICUM var MACULATUM~~ PARVIFOLIUM × I Papilionatae. 4. Hedysareae

(Sept/r)

Fl. Pink or blue; racemes terminal filiform, pedicels filiform. Flowers very small

Fr

Leaves. very small obovate, mucronate. leaflets all over all stalks.

A trailing herb in grass, spreading 2ft or so

In grass near shola edge by Kunnoonie

16

345 F.124
Leguminosae,
I Papilionatae. 4 Hedysareae

DESMODIUM SCALPE

Grange Desmodium

Fl. Brick-red. (Sept)

Fr.

Leaves. Comp. 3-foliate

Upright, fairly tall, in Ikiri shola. long thinnish flowering scape,

In Ikiri, open Sholas

347 17
Leguminosae

DESMODIUM TRIFLORUM — Papilionatae & Hedysareae

Creeping Desmodium

Fl.

Fr.

Leaves

Low, spreading plant on ground. Same as in Dohnavur.

By Gardeners' House

18

295. F.110

Leguminosae

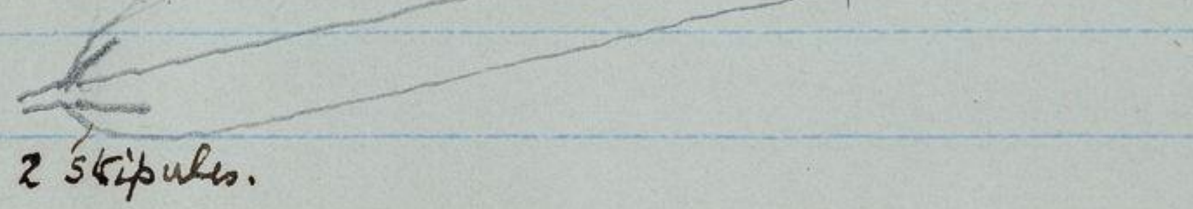
CROTALARIA CALYCINA I. Papilionatae I. Genisteae

"Rabbits' Ears"

Fl. Yellow corolla, sepals covered with long brown hairs.

Fr

Leaves ALT. linear almost globrous above, silkery white tomentose below



2 Stipules.

On open grass slopes by Sambhur Path & higher up.

403. F.142

Leguminosae 19

CASSIA LESCHENAULTIANA π Caesalpinioideae 10 Cassieae.

'Little Cassia'

Fl. Yellow.

Fr.

Leaves (a little like Mimosa pudica in appearance) 1-2" long, leaflets 16-24 pairs very small.

20

451. F. 158

Crassulaceae

KALANCHOE GRANDIFLORA

Fl. Yellow

Fr.

Leaves A kind of upstanding rosette of purplish glaucous leaves, on rocky hillsides, unmistakable.

On rocky outcrops of the higher hillsides. K.K.T.

452. F.160

DROSERA PELTATA X — Droseraceae

Shield leafed Sundew

Fl. White, 5 petalled — Small

Fr.

Leaves, Peltate with upturned cusps, like a half-moon in shape.

In grass slopes of Kunnoonie + K.K.T.

22

452. F. 159.

DROSERA BURMANNI

Droseraceae

Rosette Sundew

Fl.

Fr.

Leaves Rosulate cushion covered with reddish glands.

On wet rocks or grassy hillsides.

On the Mottai

546 23

BEGONIA MALABARICA Begoniaceae

Wedge-leaved Begonia

Fl. In axils of leaves, few. (Sept)

Fr.

Leaves, very unequally ovate cordate acuminate, serrate.

Tall plant.

In river beds & on banks.

24

546

BEGONIA. FLOCCIFERA

Begoniaceae

Round-leaved Begonia

Fl. On separate stalk, many. (Sept)

Fr.

Leaves Orbicular, broader than long, thick, white tomentose B. distinctly dentate; peltate (i.e stalk attached near middle not at edge)

On rocky ledges.

Beside all rivers & on rocky banks

25

358. F. 198.

BUPLEURUM MUCRONATUM × Umbelliferae

Common Hare's Ear

Fl. Yellow. (Sept)

Fr.

Leaves.

On the grass slopes of Kennoonie & K.K.T.

26

560. F. 200

PIMPINELLA CANDOLLEANA X Umbelliferae

Pimpinella

Fl. White (Sept)

Fr.

Leaves. Basal leaves round crenate with very long stalks, upper leaves trifid

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On the grass slopes of Kunnoonie & K.K.T.

604. F. 222

ANOTIS LONGIFLORA. ? Rubiaceae

White Anotis

Fl. White.

Fr

Leaves

Upright herb. (I must check this with Gamble. was growing where Water Channel runs Garden - Sept 1930. FN - May '47)

28

604 F. 221

ANOTIS LESCHENAULTIANA X Rubiaceae

Purple Marsh Anotis

May

Fl. Purple-pink.

Fr.

Leaves

In marshy places, low-lying herb.

Beside Anicut, Katterikkal.

Marshy patches on path from Vikahara Palk to V. Anicut.

608. F.225.

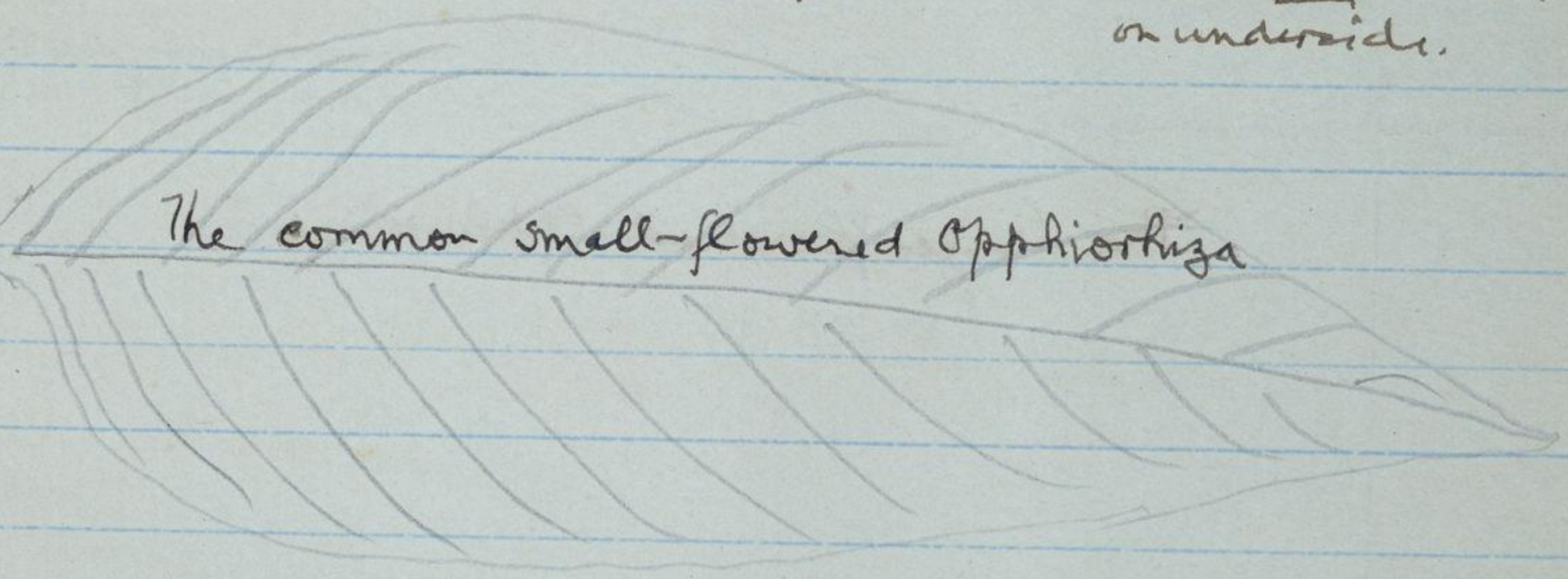
OPHIORHIZA BRUNONIS Rubiaceae

(not sure this is in the Forest. F.N. 5-47)

Fl. Whitish

Fr.

Leaves OPP. glabrous snap when bent. veins very marked on underside.



The common small-flowered Ophiorhiza

In the Forest on the Estate.

30

608

ORPHIORHIZA ERIANTHA

Rubiaceae

Fl. Whitish-pink. (very villous) (Sept-
Fr. milk throat
Leaves.

The larger flowered Opphiorhiza

Attika head of Snake-Valley Path
Nateri Kkal.

622. F. 228. 31

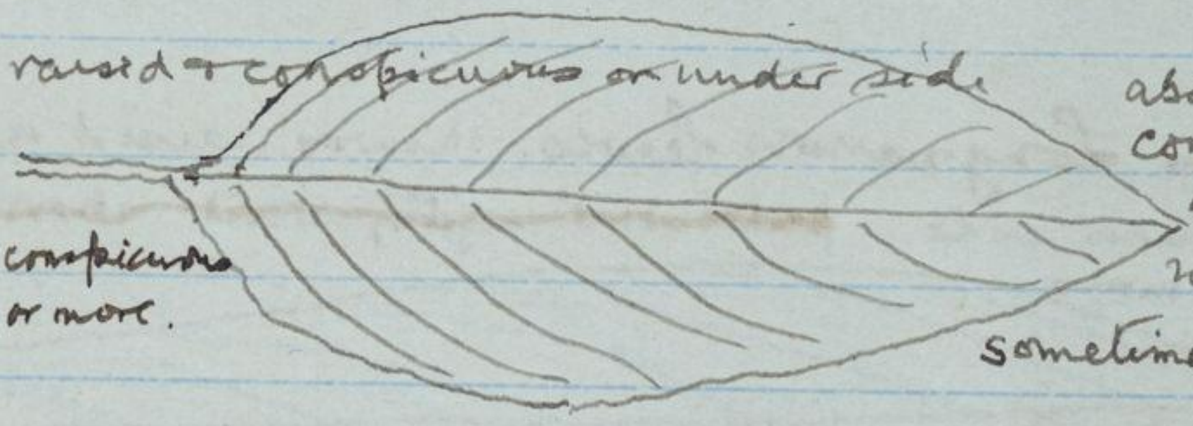
KNOXIA MOLLIS × Rubiaceae

Soft Knoxia

Fl Purplish. (Sept-)

Fr

Leaves OPP.



Stipules many conspicuous
½" long or more.

~~Common everywhere~~

(cp. H.II 32)

H II

At the high end of Orange Path after the Grass Patch.

In grass on Kanoonie

32

622 F. 229

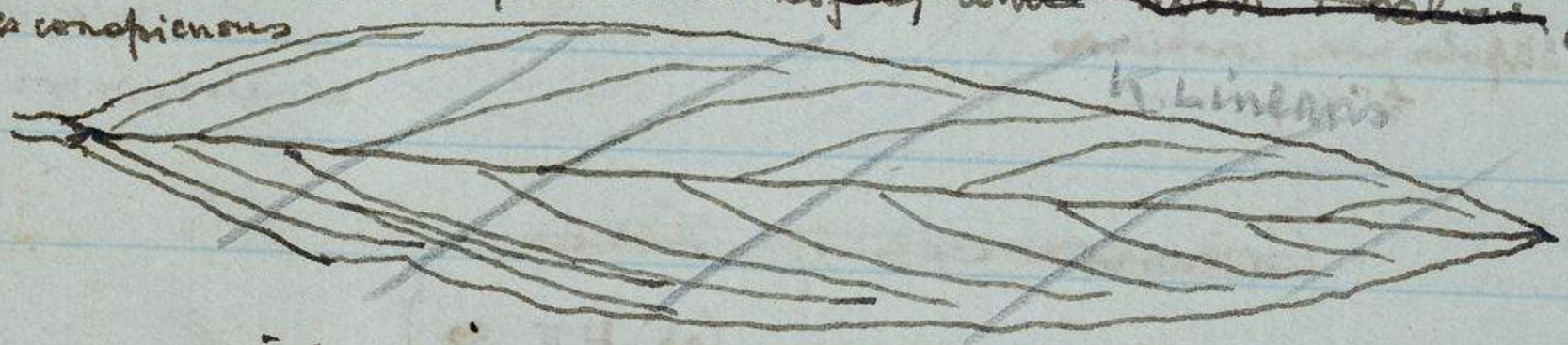
KNOXIA WIGHTIANA × Rubiaceae

Downs Knoxia.

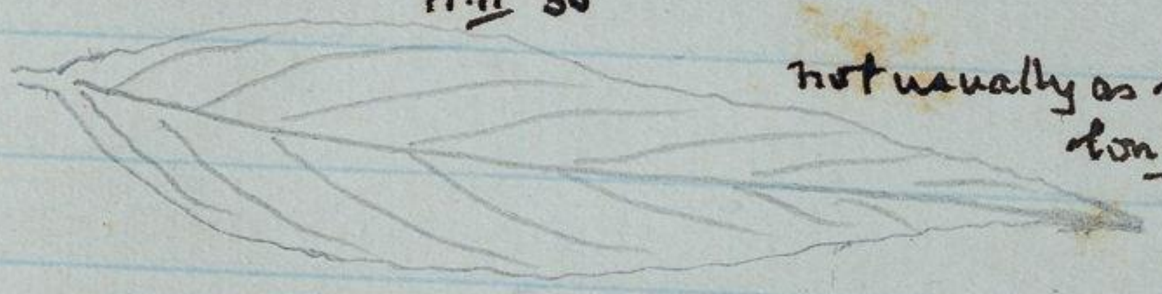
Fl. Blue (Sept)

Fr.

Leaves Long narrow leaves. Leaves raised and conspicuous on
Its under side. ~~Underside of the white about 1 below~~ glabrous
Stipules conspicuous



~~Distinguished~~ from K. linearis by glabrous leaves.
H.II 36



not usually as long as Its
longer leaves of K.L.

~~Common everywhere on lower parts of it thin forest.~~
In grass on open hillsides. (This & K.L. keep strictly to
their own provinces of grassy hillsides & light forest respectively)

K.K.T.

Se NOVAE?

676. 33

VERNONIA CINEREA — Compositae 1. Vernonieae

Common Ironweed

Fl Purple (many headed.) (Sept)

Fr

Leaves.

much larger than plains plant.

near the horses & on lower mountain paths.

34

677 F.256

AGERATUM CONYZOIDES — Compositae 2. Eupatorieae

Fl. Blue or white.

Fr.

Leaves

The 'curse' of the Nilgiris.

695. F.271 35

ANAPHALIS TRAVANCORICA × Compositae, 4 Involeae

Yellow Cudweed

FR Heads yellowish, bracts white. (Sept-)

Fr

Leaves. Long + narrow.

On the grass slopes of Kunnoonie + K.K.T.

36

696 F. 272

ANAPHALIS LAWII × Compositae & Inuleae

Pink Cudweed

Fl. Heads pinkish (Sept)

Fr.

Leaves. Long & narrow

On the grass slopes of Kunnoones ↑K.K.T.

37

708 F.281

SPILANTHES ACMELLA X Compositae 5. Helianthea

Rayless Daisy

Fl. Yellow. no ray florets. (Sept)

Fr

Leaves.

On the grassy edge of Pholas by Kennoonie

38

709. F. 282

BIDENS PILOSA Compositae 5 Helianthoae

Bur-marigold

from above seed seeding head.

Fl. Ray florets white. Several near end of leafy stalk.

Fr. fruiting head black

Leaves. Trifoliate softly hairy

fade at once, on being picked.

Common round Forest House in Fijis back & front.

711. F.284

GALINSOGA PARVIFLORA. Compositae 5. Helianthea

(Sept)

fl. Ray florets white, only about 5, very small. Heads pedunculed, subterminal & axillary.

Fr.

Leaves. OPP. 3-nerved

Common in the garden.

40

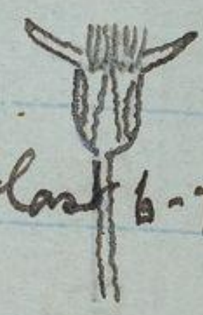
711

TRIDAX PROCUMBENS

Compositae 5 Helianthease

from above

Side



Fl, Ray florets pale yellow. Single on stalk leafless for last 6-7".
ligules three-pointed.

Fr.

Leaves. Simple. Rough-hairy. mostly on the part of the stalks lying on the ground.

In the garden, & round the houses

714. F. 286 41

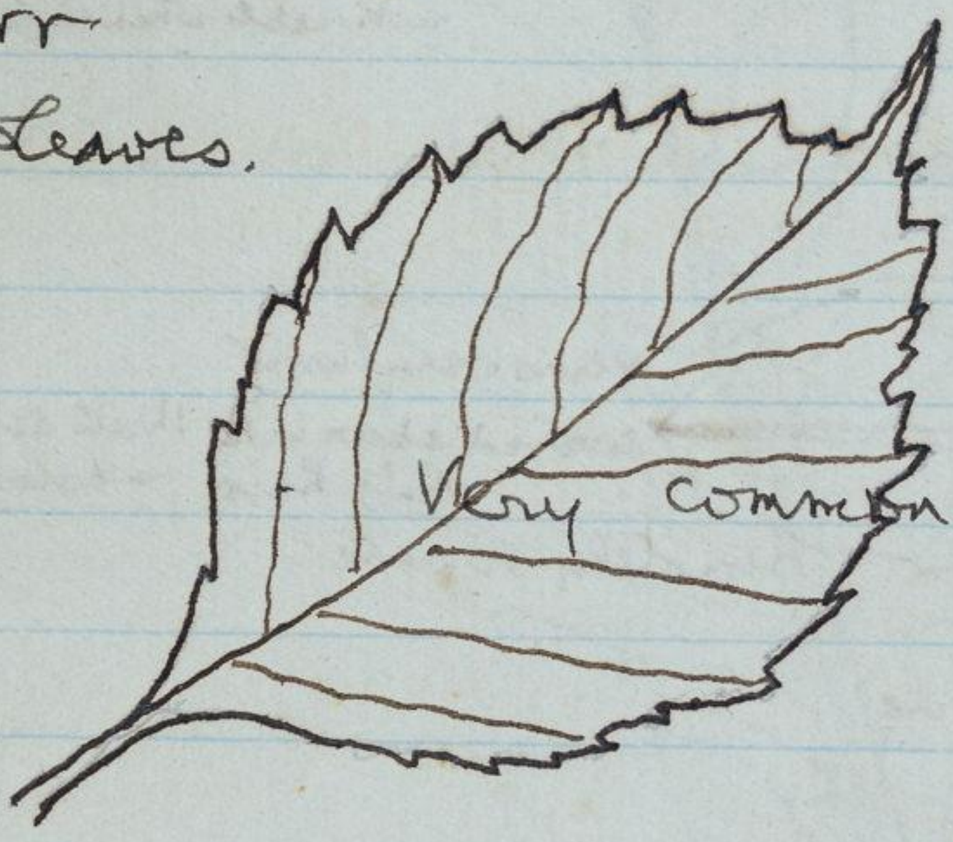
GYNURA NITIDA Compositae. 8 Senecioneae

Orange Gynura

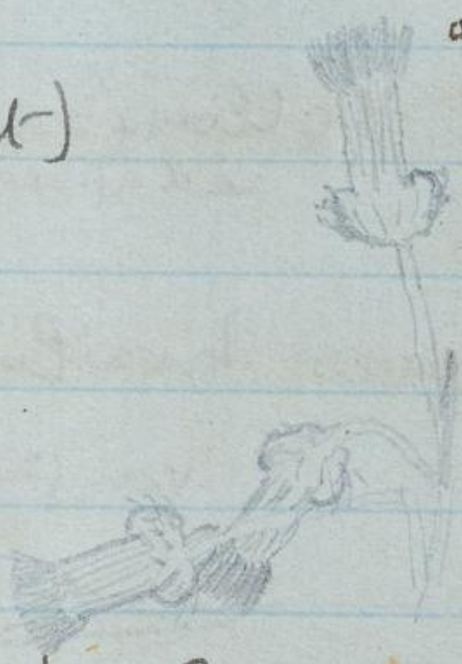
Fl. Orange - many headed. (Sept)

Fr

Leaves.



Very common round the houses.



Round the Houses - common

42

714

GYNURA TRANANCORICA

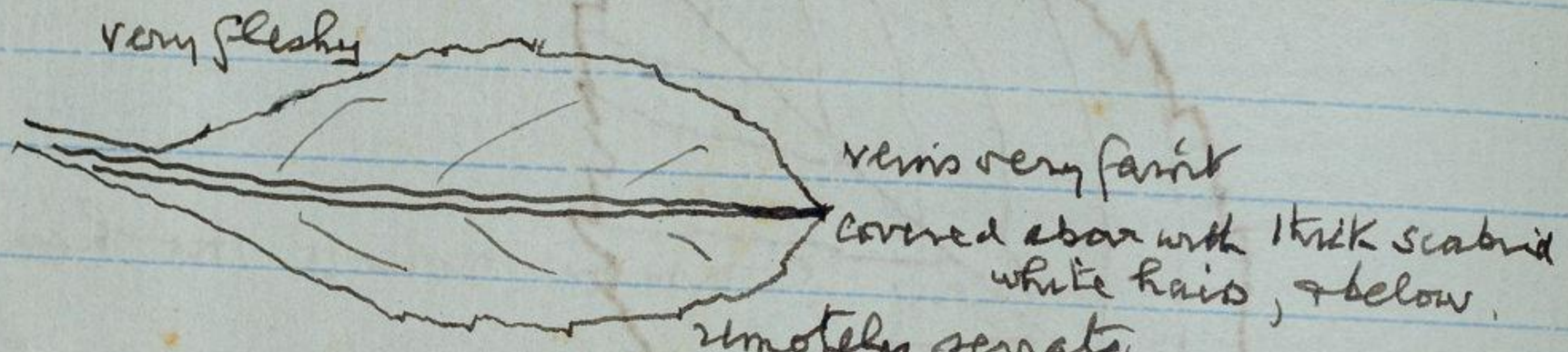
Compositae & Senecioneae

Bright yellow Gynura

Fl. Yellow (bright.) (Sept-) Heads 2 or 3 only flowering stem dark red.
red tipped embracing bracts & bracteoles. 2 fid style protruding ½" very noticeable when in full flower.

Fr

Leaves mostly round base.



On rocky open hillside.

On Shola edge just above where Snake Valley path comes out onto grass.

714

GYNURA LYCOPERSICIFOLIA Compositae, 8. Senecioneae,

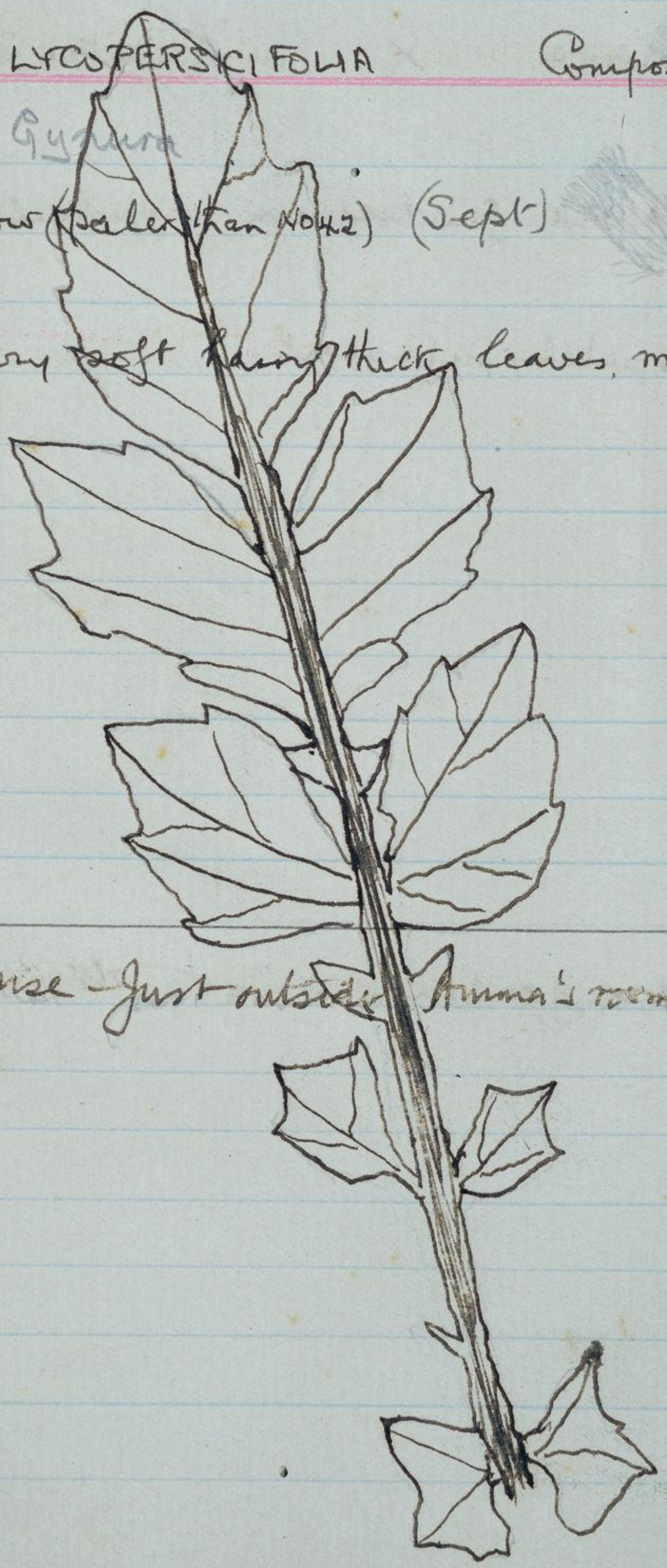
Pale Yellow Gynura

golden yellows

Fl. Yellow (Paler than No 42) (Sept) pale green

Fr.

Leaves very ~~soft~~ downy thick leaves, much lobed at base.



Forest House - Just outside Anna's room bathroom door.

44

716 F.287

EMILIA SCABRA. X Compositae & Senecioneae

Fl. Purplish-pink few headed on long pedicels, (Sept-) May
Fr

Leaves Crispately pubescent

Also found in garden. On the grass slopes of Kilimanjaro

T.K.K.

7/6 45

EMILIA SONCHIFOLIA Compositae - 8 - Senecioneae

R. Purplish-pink Few flowered, on long thin pedicels (Sept-)

Fr.

Leaves, Deeply auricled.

Almost entirely glabrous.

46

717

NOTONIA Compositae 8. Senecioneae

Fl. Paleyellowish-green (Sept)

Fr.

Leaves Very fleshy. glabrous

Jewel House. On top of the great rock behind

Jungle House

Forest House Outside the back (W) door of Anna's room.

check. See picture Tyson II p 355.

722. F294 47

SENECIO POLYCEPHALUS × Compositae. 8. Senecioneae.

Mountain Ragwort.

Fl. Yellow (Sept) may.

Fr.

Leaves.

On the grass-slopes of Kennoonie T.K.T.

48

732.

SONCHUS ARVENSIS Compositae II. Cichoriese

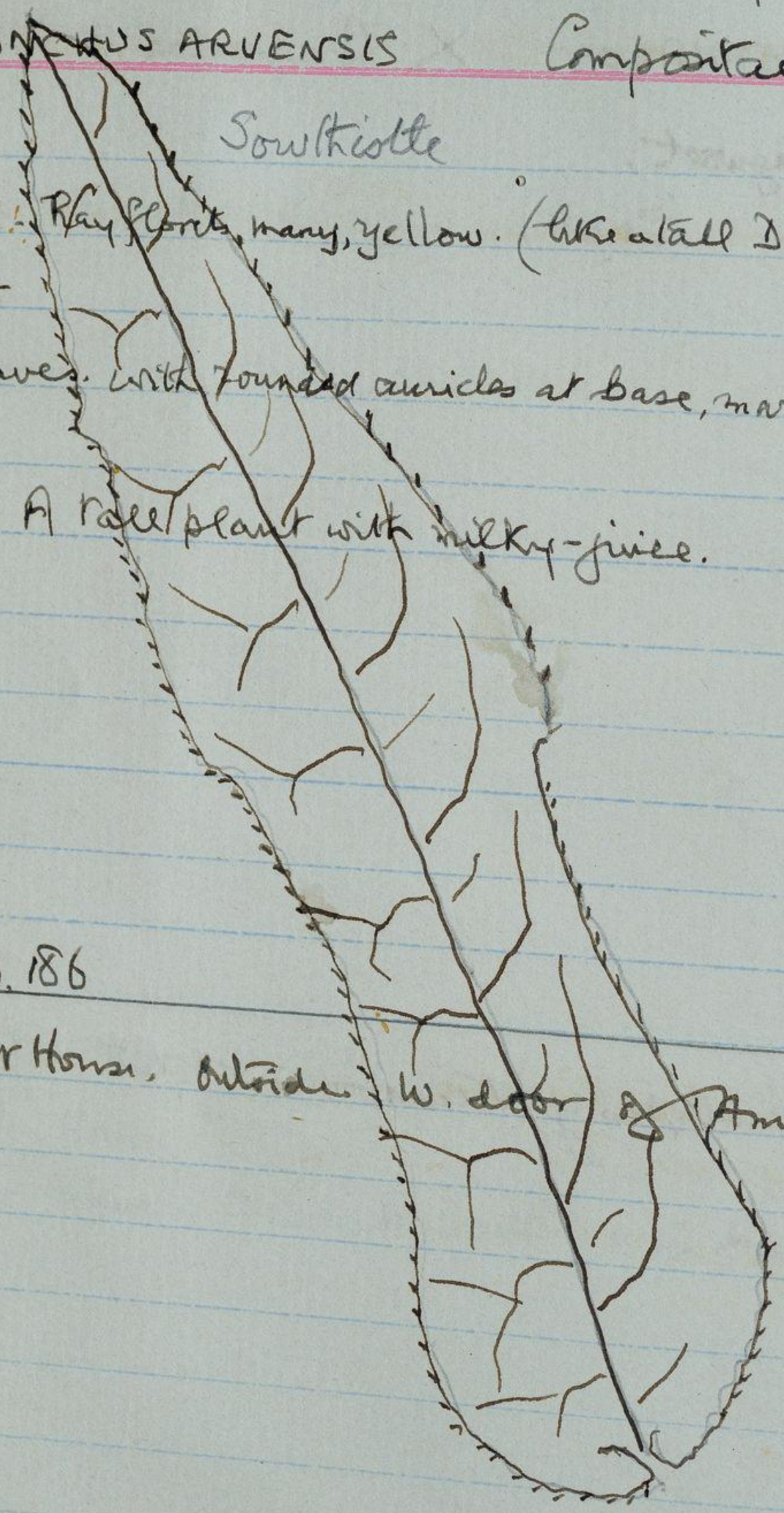
Sowthistle

Fl. Ray florets many, yellow. (like a tall Dandelion flower) bracts glandular hispid.

Fr

Leaves. with rounded auricles at base, margins spinulose-toothed

A tall plant with milky-juice.



S.S. 186

Forest Horsa. Outside W. door of Annexe room

736.

LOBELIA NICOTIANAEFOLIA X Campanulaceae

Marsh Lobelia

Fl. ~~White with lilac markings~~ Deep violet Blue, with black anthers. April 1946

Fr.

Leaves.

Marshy Place near where Vibaharo Palk joins Jackson Palk

Many cilly bogs on V.N. Amicul-to Nalatikkal Palk.

50

738. F. 305.

WAHLENBERGIA GRACILIS X Campanulaceae

Harebell

Fl. Pale blue (Like a small Hare-bell) (Sept)(May)

Fr.

Leaves

On the grass-slopes of Kunnoonie †K.K.T.

746. F. 314. 51

LYSIMACHIA DELTOIDEA. × Primulaceae.

Dwarf Primrose

FR. Yellow corolla lobes red & hard dotted Corolla 5 lobed Solitary or in pairs in leaf-axils may
Stamens inserted on base, style persistent. united
Fr.

Leaves.

52

873

EXACUM TRAVANCORICUM X Gentianaceae

Common Gentian

Fl. Blue Flowers solitary

Fr.

Leaves

Common Exacum of the grassy hillsides

53

874. F. 347

EXACUM ATROPURPUREUM X Gentianaceæ

Dark-Blue Gentian

Fl. Deep velvety blue. Flowers solitary (Sept)

Fr

Leaves,

On the grass-slopes of Kanawoma.

54

874

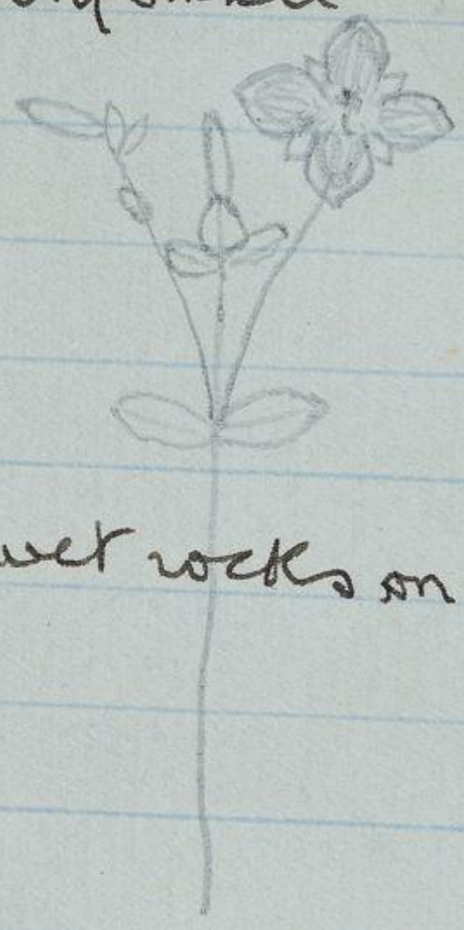
EXACUM LAWII

Gentianaceae

Fl. Blue very small Flowers several (Sept)

Fr.

Leaves



On wet rocks on open hillsides. 5" tall

On Mottai - quite common.

55

876. F: 349.

GENTIANA QUADRIFARIA. X Gentianaceae

True Gentian

Fl. Blue very Small (Sept) May

Fr.

Leaves.

On the grass-slopes of Kennoonie

56

881. F-350.

SWERTIA CORYMBOSA X Gentianaceae

Swertia

Fl. Pale Blue in Corymbs.

Fr.

Leaves.

900. F. 352. 57

CYNOGLOSSUM FURCATUM Boraginaceae.

Indian Forget-me-not.

Fl. Blue (like Forget-me-not) (Sept) May

Fr.

Leaves

West of Kunnoonie, on the Elephant path

Common on edge of Sholas Promsid Land & Kunoonie

Common in courtyards round the Houses.

58

923

Convolvulaceae

EVOLVULUS ALSINOIDES

Blue Evolvulus

Fl. Blue (Sept)

Fr

Leaves.

On paths + quite high up the mountain side - occasional

936 59 F. 355.

SOLANUM LAEVE X Solanaceae

Mountain Solanum

Fl. White

Fr. yellow or red

Leaves ~~yellow or red~~.

An unarmed plant.

60

938 F.358.

SOLANUM INDICUM

Solanaceae

Thorny Solanum

Fl. White

Fr. Dark yellow

Leaves ±

A thorny plant.

61

956

TORENIA COURTALLENSIS × Scrophulariaceae

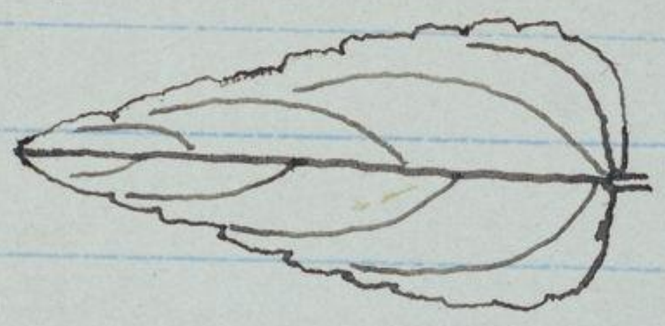
Mountain Torenia.

Fl. ~~Blue~~ Lilac Calyx winged. Pedicel 1-2" (Sept-) May Pedicel fairly stout.
1-4 Fl in leaf axils. each with own long pedicel

Fr.

Leaves 1½" petiole .1" or .2 very small OTP.

A trailing herb with long decumbent stems.



On Shola edges in thick grass round Kunnoonu near Anicut, Nalenikkal. In Tara Kanar T. along the path.

62

967

STRIGA OROBANCHOIDES X Scrophulariaceae

Pink Striga

Fl. Pink. (Sept) + May

Fr.

Leaves

On the grassy-slopes of Kunnoonie, and of Vistaru Malai & KKT.

968. F.370 63

✓ STRIGA LUTEA × Scrophulariaceae

White Striga

Fl. Yellow or white

Fr.

Leaves.

On grass slope, ¼ mile up F.H. Hut-river bed. Northof House

64

970.F.372

SOPUBIA DELPHINIFOLIA × Scrophulariaceae

Pink Sopubia

Fl. Pale purple (Sept)

Fr.

Leaves

May

On the grass-slopes of Kumaoonie

65

970. F. 373

SOPUBIA TRIFIDA × Scrophulariaceae

Yellow Sopubia

Fl. Yellow with purple eye. (Sept) May

Fr.

Leaves

On the grass-slopes of Kunnoomie – as far as common as 64.

66

Utricularia graminifolia coerulea

981 (F. 378)

Lentibulariaceae

Fl. Blue lower lip of corolla reticulate

Sept

Fr.

Leaves

Scales & bracts attached by base

Scapes slender sometimes twining 4"-6" long

Above Waterfall in Snake Valley.

Marshy Place on Ramparts.

out in Sept.

983 67

Utricularia rosea purpurea Lentibulariaceae

Fl. Pink-purple Spur shorter than lower lip of corolla. Sept

Fr.

Leaves

Scales bracts attached by their middle

Marshy place on Ramparts

68

988-9. F. 370

DIDYMOCARPUS TOMENTOSA

Gesneriaceae

Didymocarpus

Fl

Fr.

Leaves.

On rocky outcrops on K.K.T.

1049. F.395. 69

ANDROGRAPHIS NEESIANA Acanthaceæ

Fl.

Fr.

Leaves

Materia Medica.

70

1080. F. 398

JUSTICIA SIMPLEX × Acanthaceae

Mountain Justicia

Fl. Purple-pink (occasionally white) (Sept-) May

Fr.

Leaves.

Stem & leaves hispid & rough. (Hatenkkal)

On the grass-slopes of Kunnoorad & K.K.T. & View Point of Snake Valley.

71

1055.

CROSSANDRA UNDULAEFOLIA. Acanthaceae

Orange Crossandra.

Fl. May Feb.

Fr.

Leaves.

Common in forest round the estate

72

1089

BOUCHEA HYDERABADENSIS

Verbenaceae

Bouchea

Fl. Pink purple. (like a large pink flowered Strachytarpheta).

Fr.

Leaves.

A large patch just above High Bank, between the rivers.

1090 73

✓ STACHYTARPHETA INDICA Verbenaceae

Stachytarpheta

Fl. Purple. (deep violet)

Fr.

Leave

On drier foothills

74

1114

ORTHOSIPHON COMOSUS — Labiatae

"Fragrance of the Uplands"

Fl. Purple

Fr.

Leaves Purple floral leaves most conspicuous. Aromatic

On all grassy hillsides near Forest.

75

1124

COLEUS MALABARICUS Labiatae

Fl. Pale lilac with dark blue upper lip

Fr.

Leaves.

76

1122. F. 404

PLECTRANTHUS COLEOIDES

Labiatae

Fl. Blue

Fr.

Leaves

In dry mulla from Huts to Gardeners' House,

1142 77

SCUTELLARIA COLEBROOKIANA Labiatæ

Fl. ~~Pink~~ Violet purple. Feb.

Fr.

Leaves

High up in shola (light undergrowth).

78

1150

LEUCAS BIFLORA × Labiatae

Mountain Leucas

Fl. White 2-flowered in upper leafaxils.

Fr.

Leaves

On grassy slope of Kunoonie + HKT.

1153. F. 420 79

LEUCAS VESTITA Labiatae.

Brown-lipped Leucas

Fl. Whorls upper lip brown. (Sept) May

Fr.

Leaves.

Near Shola edges on the slopes of Kunnoonie
At the View Point.

80

1162

BOERHAAVIA DIFFUSA

Nyctaginaceae

Fl. Pink

Fr

Leaves

Same as in Dohnavur

By the Gardener's House

81

1166

CELOSIA POLYGONOIDES. Amarantaceae

Fl. Pink

Fr

Leaves

Same as in Dohnavur

Up the David's Rock path, in many places.

82

1171

AMARANTUS INDICUS.

Amarantaceae

Fl.
Fr
Leaves

Same as on Dohnavur

Round Hut Gardener's House

1209. F. 435 83

PEPEROMIA REFLEXA Piperaceae

Fl Spike short

Fr.

Leaves

84

1210. F.436.

PEPEROMIA DINDIGULENSIS Piperaceae

Fl. spikes very long. upto 4"

Fr

Leaves 1½" × 1" pubescent.

On rocks just where you come up from Joy Pool to go to Jewel Pool.

85

1275

EUPHORBIA HIRTA Euphorbiaceae

Common Milkweed

Fl

Fr

Leaves

Same as in Dothaser.

Round the houses and in the garden

1278. F. 457.

EUPHORBIA ROTHIANA

Euphorbiaceae

Mountain Milk-weed

Fl. (Sept)

Fr

Leaves Floral-leaves broadly ovate-cordate.

Milky herb.

On grassy hillsides., on the grass slopes of Kennoonie on Shola edges.

1289. F.459 87

PHYLLANTHUS RHEEDII × Euphorbiaceae

Fl. (Sept)

Fr.

Leaves

On the grass-slopes of Kunnoonie Th. K.T.

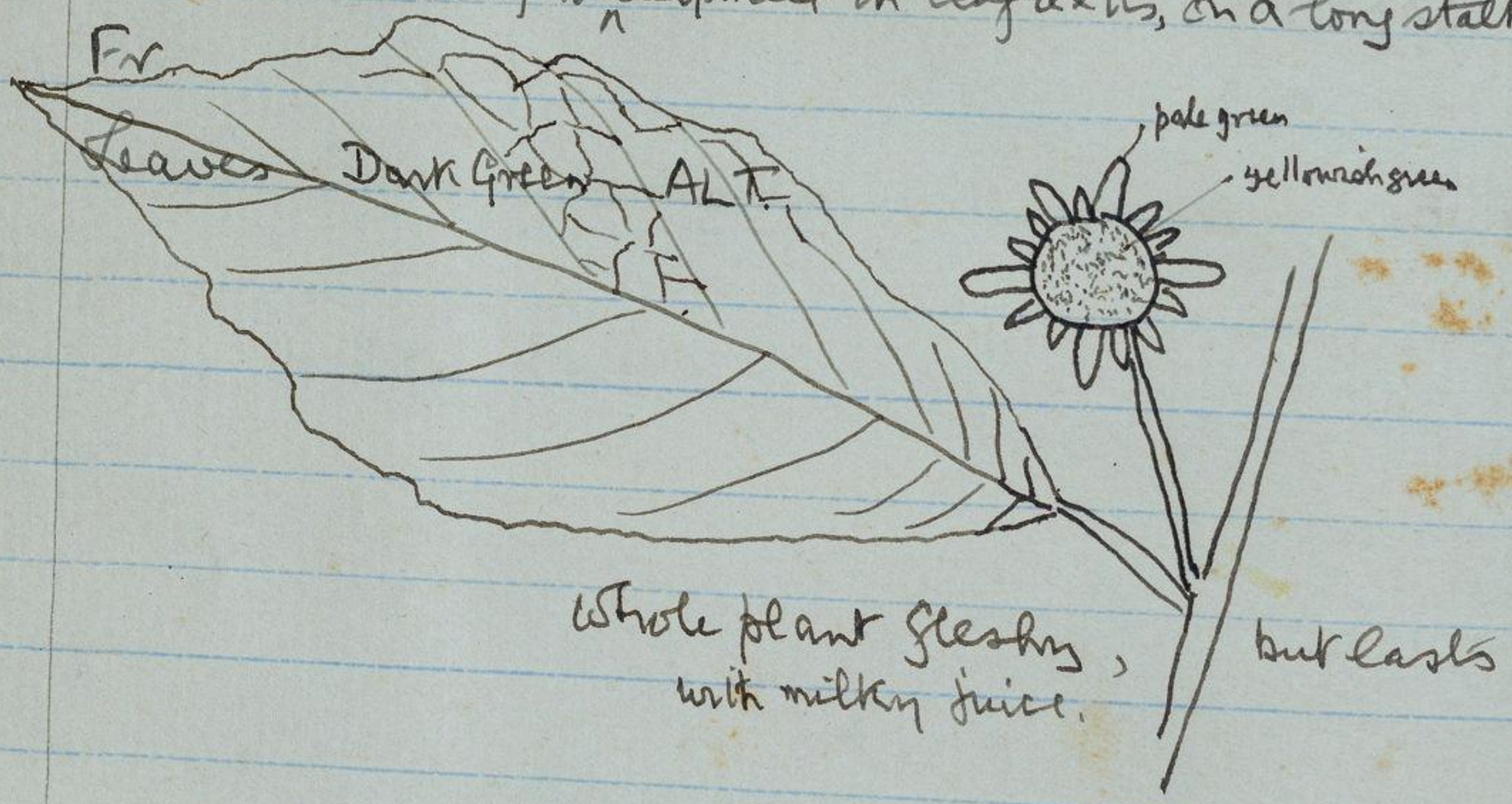
88

1369. F.474

DORSTENIA INDICA

Moraceae

Fl. Crowded in a flat peltate receptacle in leaf axils, on a long stalk.



Whole plant fleshy, with milky juice.

but lasts in water.

On damp shady banks in forest.

89

1376. F.478.

ELATOSTEMMA SESSILE Urticaceae

Pl.

Fr.

Leaves Lower lateral nerve rib ~~curved~~ many veined

1376. F. 479.

ELATOSTEMMA LINEOLATUM — Urticaceae

Fl.

Fr.

Leaves Lower lateral rib nearly straight Very unequal. Sew veined

B99. F.485 91

BURMANNIA COELESTIS Burmanniaceæ

Blue Burmannia

Fl. Blue, with a shade of purple in it. (Sept)

Fr.

Leaves

On the Mottai, on wet rocks & grass.

92

1406

OBERONIA RECURVA. X Orchidaceae

Fl. Hanging spike of minute flowers. dense flowered, 4" long.
Fr. flower - mid lobe 2-fid, lateral lobes rounded. Creamy greenish yellow

Leaves 1-2" long, acuminate (ensiform, ~~corio~~ fleshy) All coming from base & clasping each other at the flowering stalk, which appears as a leaf.

Tree-orchid (Sep(r)

Kunnoonie Ridge W. end of K. + down to Elephant Path.

1410 93

LIPARIS WALKERIAE × Orchidaceae

Pl. Dark pink-purple (Not very dark like H II. 12) lip yellowish white. Smell not pleasant

Fr

Leaves large, roundish, base more or less equilateral (c.p.l. Afrogymnopteris base ∠ oblique)

Leaves of L.W. and L.A. are both continuous with the sheath or pseudobulb.

Ground-orchid upright, ~~[illegible]~~. (Sept-)

(One is planted on bank 6 ft from back door of Jewel House Hut, beside the bottom of a tree trunk.)

Beside path from Vengaanayakan Aniaut to Manohola, and in Marshes near there

94

1415

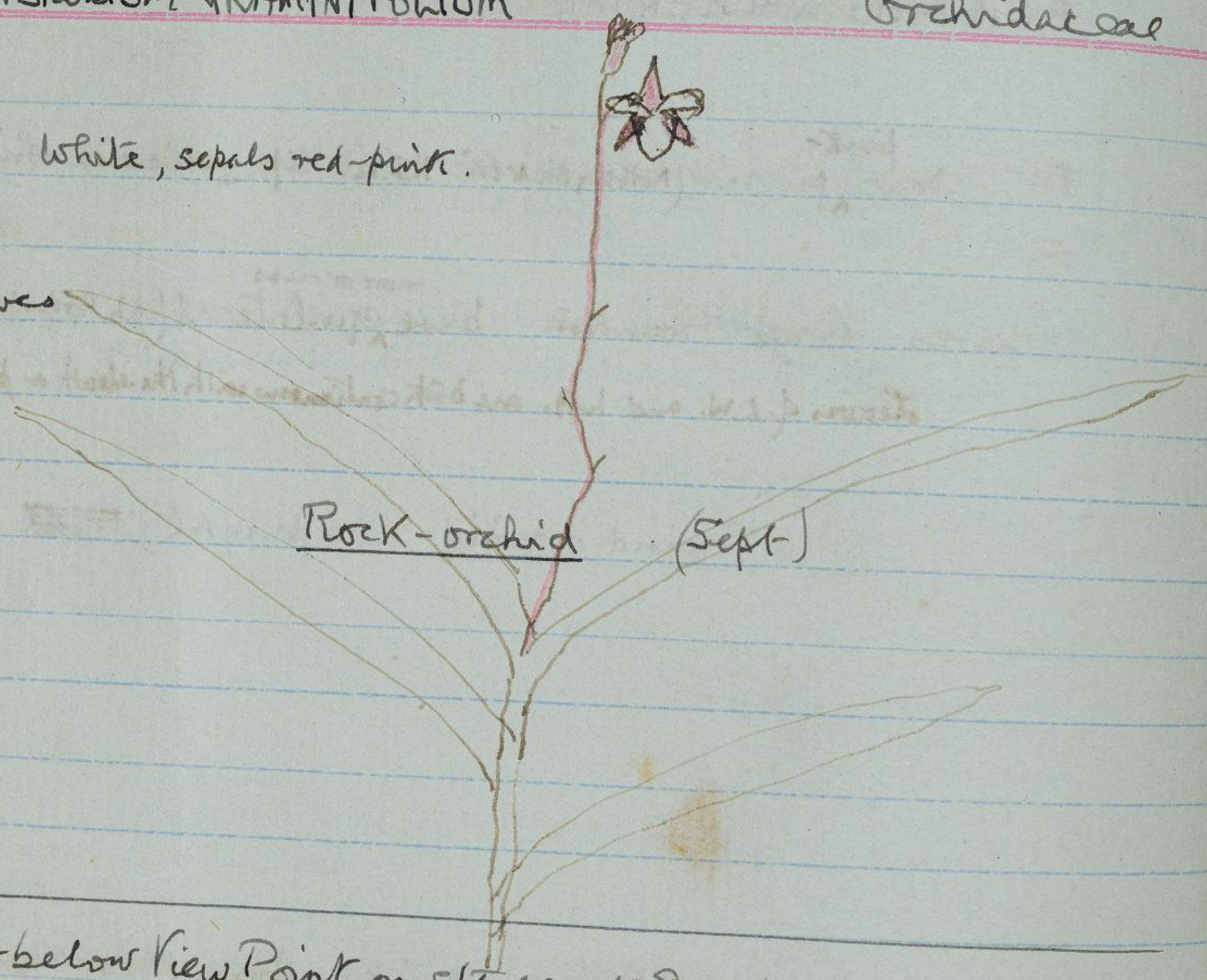
DENDROBIUM GRAMINIFOLIUM

Orchidaceae

Fl. White, sepals red-pink.

Fr.

Leaves



Rock-orchid (Sept-)

Just below View Point on steep rock S. of steep steps in path. Snake River bed, first steep patch open above Sandbar Park near the top of hill - Very many.

1420

CIRRHOPETALUM (GAMBLEI NEILGHERRENSE). X Orchidaceae

Fl. Yellow mottled with red, umbel. pedicel from bottom of bulb.

Fr Bulb wrinkled single connected by root to next.

Leaves $1\frac{1}{2}$" × $\frac{3}{4}$" Single leaf.

Tree-orchid. (Sept)

Rock-orchid.

On a large tree beside the Marshy Place

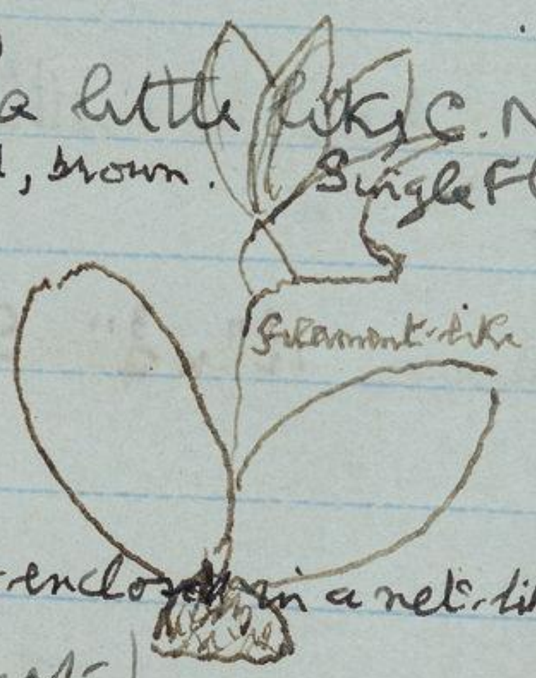
Vibahara Path, just beyond end of Grassy Patch in first patch of trees on a tree, next to beside it on a r.

96

1425 F. 491

ERIA BRACCATA. X Orchidaceae

Fl. White, column yellow. (·6 to ·7 long) Small, a little like C. N. →
Fr Bract below flower strongly nerved, brown. Single Flower



Leaves. Two – under an inch to 1½" .

A very short-stemmed stemless plant, pseudobulb-enclosed in a net-like sac N.

Tree- orchid. (Sept-)

Common in sholas on Kumaon Ridge

970

1430 F.496.

COELOGYNE NERVOSA X Orchidaceae

Several flowered

Fl. White, lip yellowish (scented) mid lobe of lip acute

Fr.

Leaves. Two-up to 5"x 1·4".

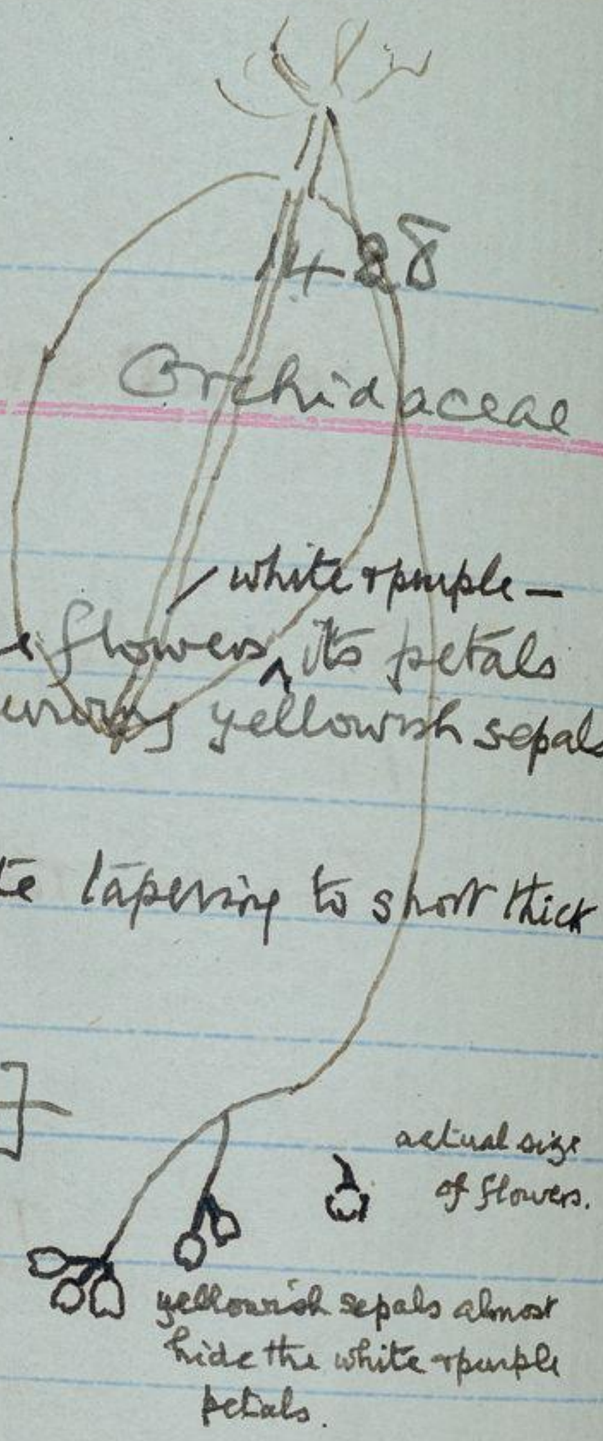
Tree- and Rock- Orchid. (Sept)

Common on Rocks & Trees on Kunoomi Ridge & H.K.T.

JOSEPHIA LANCEOLATA
~~PHOLIDOTA IMBRICATA~~ X

14-88

Orchidaceae



Hanging raceme. 8" but can be much more,
Fl. Umbel like on long stalk V small globose flowers white + purple —
Fr. almost hidden by inward curving yellowish sepals.

Leaves. Single, 4" long. x .8" wide, bluntly acute tapering to short thick petiole. deeply indented centre midrib.

~~[In most details smaller than description in Gamble.]~~

Tree-orchid (Sept)

Kunnoonie Ridge where Elephant Path enters small Shola, West of K.

1432. F. 498 99

Probably MASUCA
CALANTHE VERATIFOLIA × Orchidaceæ

Flowers of this much smaller

Fl. Pale lilac. long straight stalk

Fr.

Leaves

See. II. 17.

Ground-orchid. (Sept)

In open forest glades, at the head of Snake Valley & in the "Promised Land".

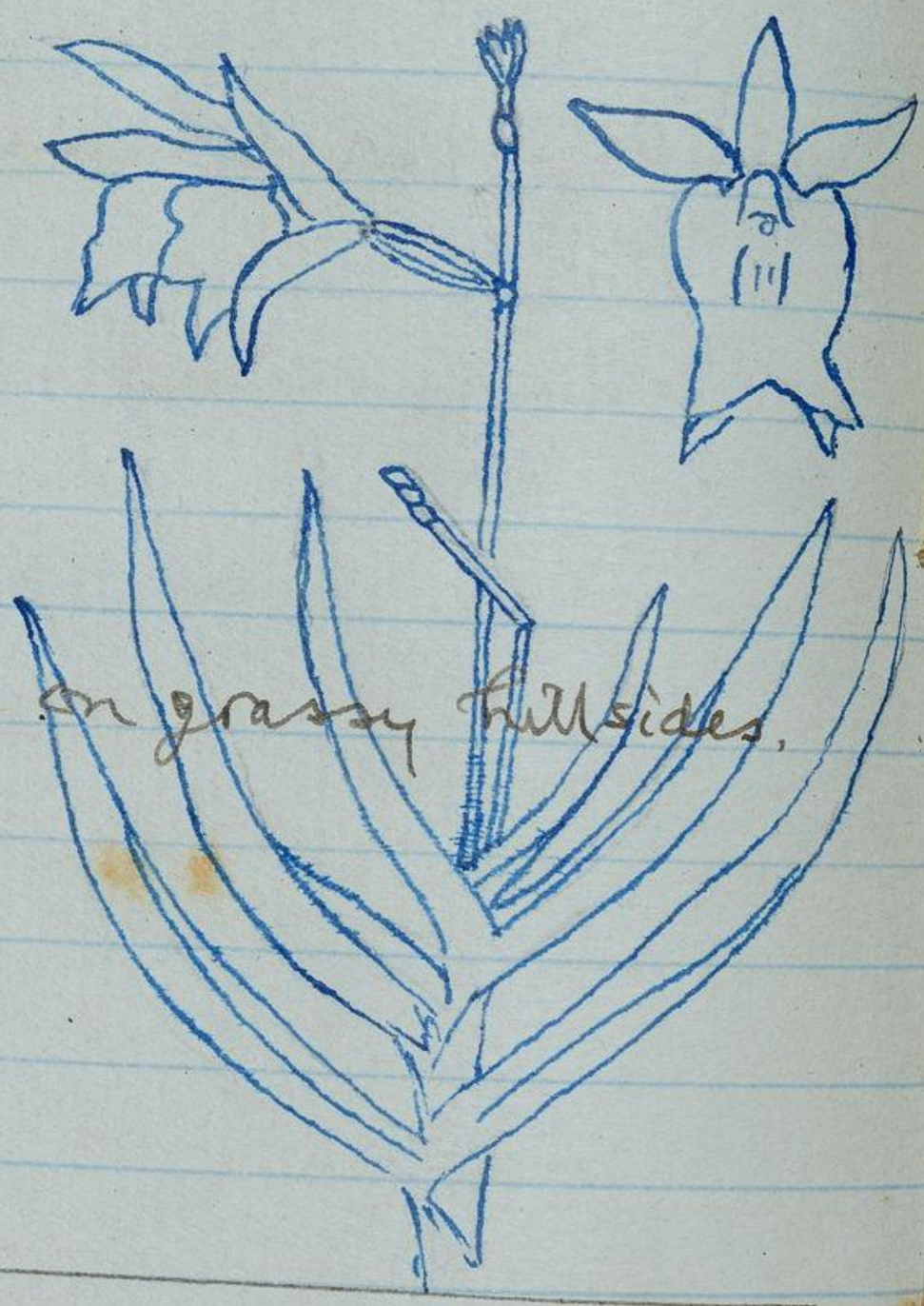
100

1432. F.499.

✓ ARUNDINA GRAMINIFOLIA

Orchidaceae

Fl, Pinkish purple, large.
Fr
Leaves.



(Sept) Ground-orchid - on grassy hillsides.

On the Mottai - 100 yds uphill from where the path ends near the forest where a small gully begins 20 yds out from forest - many

May 71 On h slope looking down towards Karne

1438, F. 503.

LUISIA TENUIFOLIA Orchidaceae

Fl. Dark purple & greenish.

Fr.

Leaves

Tree-orchid, (Sept.) Very common

Everywhere in our Forest and higher.

102

1446. F.507

SACCOLOBIUM FILIFORME

Orchidaceae

Orange Tree Orchid.

Fl. Bright orange

Fr.

Leaves

Tree orchid. Common. (Sept)

Everywhere in our Forest and higher.

1453 103

ANOECHTOCHILUS ELATIOR, Orchidaceae

Fl.

Fr.

Leaves velvety dark green with golden nerves.

Ground orchid, smallest 6" (Sept)

One is planted on 5th bank of Jewel Post at end of the wall, beyond dam.

Nalenikkal. In the wood between Manshola & Nalenikkal.

104

1470. F. ~~518~~ 519

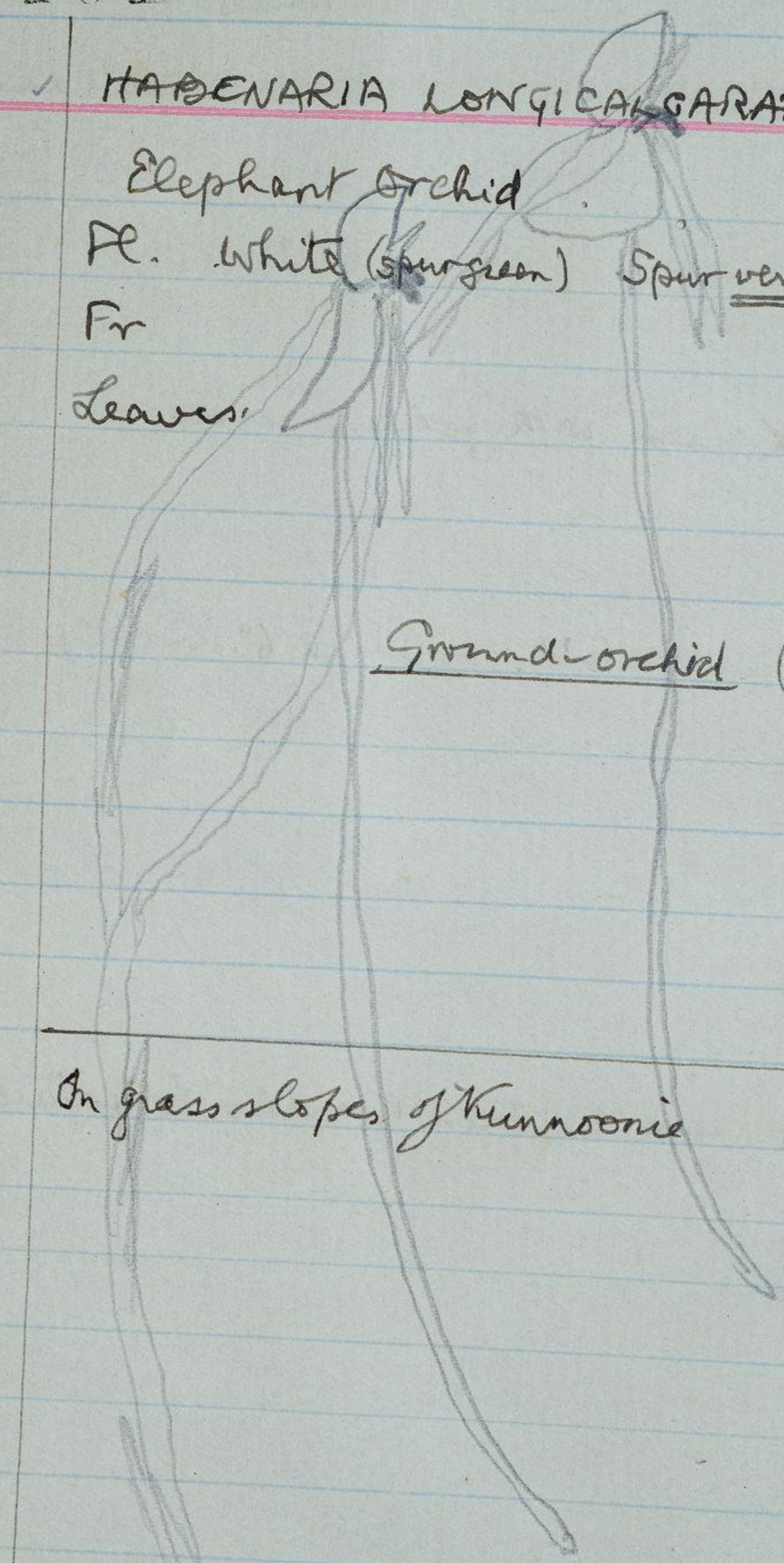
HABENARIA LONGICALCARATA X Orchidaceae

Elephant Orchid

Fl. White (Spur green) Spur very long 1-4 f Covered Spike.

Fr

Leaves.



Ground-orchid (Sept-)

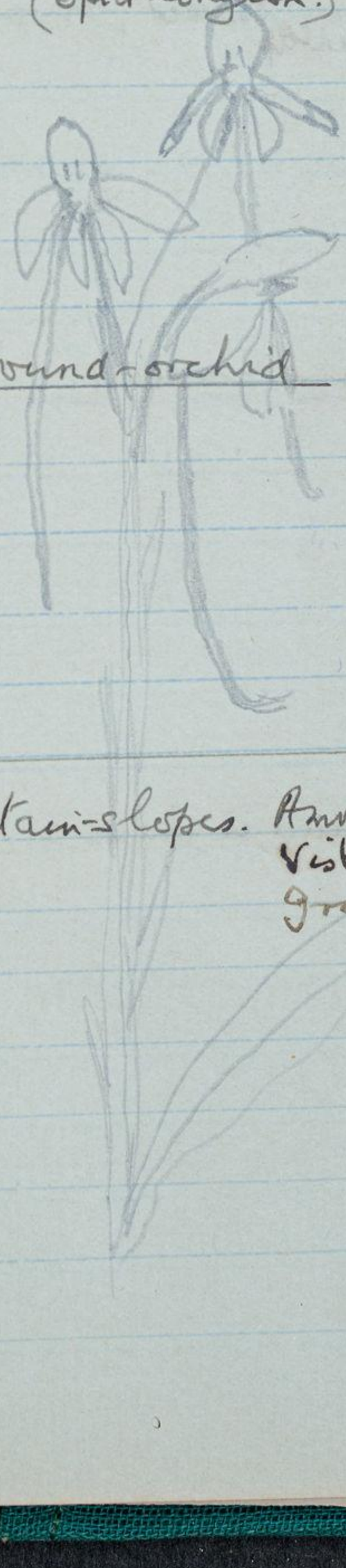
On grass slopes of Kunnoonie

105

1470. F. 519 ~~519~~ 518

HABENARIA LONGICORNU × Orchidaceae

Fl White (spur longish.) 2-8 flowered spike ~~on 4~~ 5 ~~on 8~~ 18) 11.9.43
lip shorter than lateral sepals
Fr
Leaves



Ground-orchid (Sept-)

On grassy mountain-slopes. Amuta Valley Eridge.
Vistare Makai lower slopes.
Grass below Victory Rock

106

1471. F. 523

HABENARIA PERROTTETIANA × Orchidaceae

Yellow Habenaria

Fl. Yellow. many flowered, large ~~bracts~~ rounded sepals
longitudinally, sided lip

Fr.

Leaves,

Ground-orchid (Aug, Sept-)

In the Promised Land, in grass.

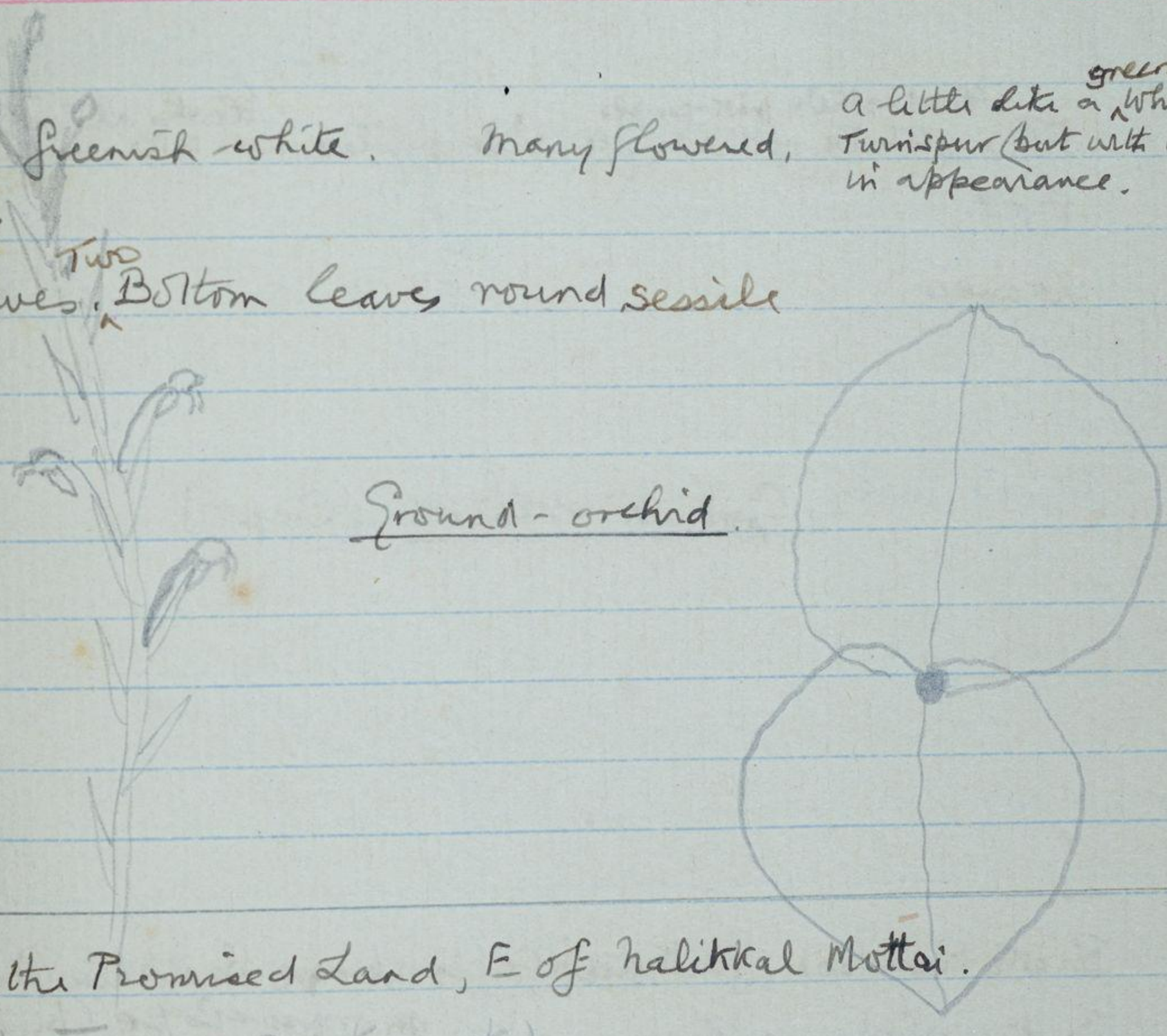
1471 F.522 107

HABENARIA CRASSIFOLIA × Orchidaceae

Fl. Greenish-white. Many flowered, a little like a greeny-White Twinspur (but with 1 spur) in appearance. Sept.

Fr.

Leaves. Two Bottom leaves round sessile



Ground-orchid.

In the Promised Land, E of Nalikkal Mottai.

K.K.T. Sweet scented

108

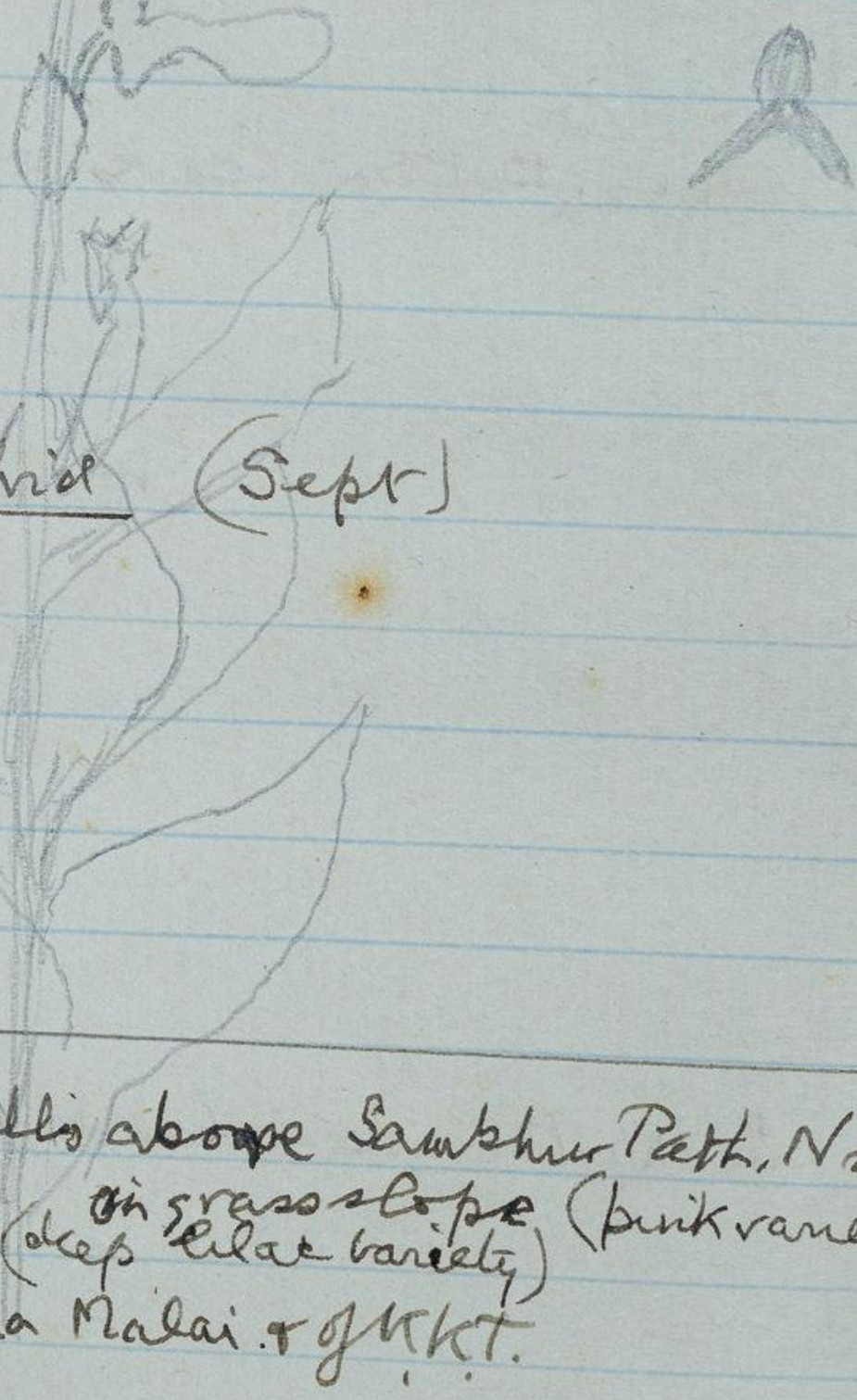
1476. F.528

PHYLLOMPHAX OBCORDATA X Orchidaceae

Fl. 1. Almost entirely pink-purple 2. White spotted purple, or 3. Deep lilac. (Looks at first like a labiate to the uninitiated)

Fr.

Leaves.



Ground orchid (Sept)

Snake River bed, first steep falls above Sambhur Path. N side
On the slopes of Kunnoonie (deep lilac variety) on grass slope (pink variety)
On upper grass slopes of Vishara Malai & of K.K.T.

109

1426.F.529

SATYRIUM NEPALENSE X Orchidaceae

Pink Twin-spur.

Fl. Pink, fragrant, many flowered.

Fr.

Leaves.

Ground-orchid. (Sept + earlier)

On the grass-slopes of Kunaoonie

110

1478

DISTERIS MONOPHYLLA

Orchidaceae

Fl. Greenish white with purple veins.
Fr
Leaves

Ground-orchid up to 6" tall.

In the tall grass above the garden

111

1491

ELETTARIA CARDAMOMUM Zingiberaceae

The Cardomum.

Fl. White & pink.

Fr.

Leaves.

Beside Jewel Pool, S. slope

112

1487

AMOMUM MURICATUM

Zingiberaceae

Fl. Spikes oblong thick outer bracts deep pink

Fr

Leaves.

On path from Naturikkal to manshola.
In our own forest.

1494 113

SCHUMANNIANTHUS VIRGATUS Marantaceae

Fl. Panicle of small flowers

Fr

Leaves.

Above & round the rock S of Preeyah Pool.

114

1499. F. 534

OPHIOPOGON INTERMEDIUS

Haemodoraceae

White Ophiopogon.

Fl. White in a raceme, usually bending as above.

Fr.

Leaves. Upto 2ft long not more than .5" wide.

On banks in light forest, where there is not much undergrowth.

1502.F.536.115

CURCULIGO ORCHIOIDES Amaryllidaceae

'Yellow Star'

Fl. A bright yellow star (almost flat on the ground) (Sept)

Fr.

Leaves

On the grass-slopes of Kunnoonie & K.K.T.

All over the Forest Boundary paths & such open, shaded places.

116

1523. F. 545

LILIUM NEILGHERRENSE X Liliaceae

Nilgiri Lily.

Fl. White, large. (Sept)

Fr.

Leaves.

On all the higher Southern grass slopes of our valley
Vestara Malai slopes very few. HF.

Far up our valley on the S side above a Bamboo belt, facing East and backed by rock is a slope with hundreds of them, visibly white to the naked eye from Jewel Honsevverandah, a wonderful sight through the telescope. It is below Elephant Path, after it passes through small Shola West of Kunnoore.

1523 117

ASPHODELUS TENUIFOLIUS Liliaceae

Grass leaved Asphodel.

Fl Scapes several flowers white pedicels jointed below the middle in a simple raceme, each flower solitary in the axils of small scarious bract
Fr A loculicidal 3 valved capsule. Seeds 2 in each cell. 3 cornered, black. (Sept)

Leaves Radical, linear, triquetrous base sheathing 4/5 to 9" long. very narrow grass like

Where the Mottai path comes to the Mottai on the grass slopes — very many of them. Leaves easily confusable with the grass blades, hence overlooked. Fruiting in September.

118

1526. F. 544.

CHLOROPHYTUM MALABARICUM

Liliaceae

Mountain Asphodel

Fl. Dense flowered racene (Sept) White

Fr.

Leaves. Not narrowed into a petiole. under 1" broad.

Cp. No 156.

On the grass-slopes of Kunnoonie. TKKT.

~~On rocks in the forest on top of Mavhalla Hanging rock~~

See No. 156.

1538.F.550. 119

COMMELINA HIRSUTA

Commelinaceae

Yellow Commelina

Fl. Yellow

Fr.

Leaves.

120

1539 F.55

COMMELINA CLAVATA

Commelinaceae

Mountain Commelina

Fl. Blue (Sept)

Fr.

Leaves.

On the grass slopes of Kunnoora & KKT.

Check. 1550. 121

CYANOTIS VILLOSA. Commelinàceae

Mountain Cyanotis

Fl. Blue (Sept)

Fr.

Leaves Stem and leaves dark purple.

On grass slopes of Kumoonee T.K.K.T.

1550. F. 556.

CYANOTIS ARACHNOIDEA × Commelinaceae

Woolly Cyanotis

Fl. Blue. (Sept)

Fr.

Leaves. Covered with cotton woolly white tomentum, as is stem

On the mountain side above View Point.

123

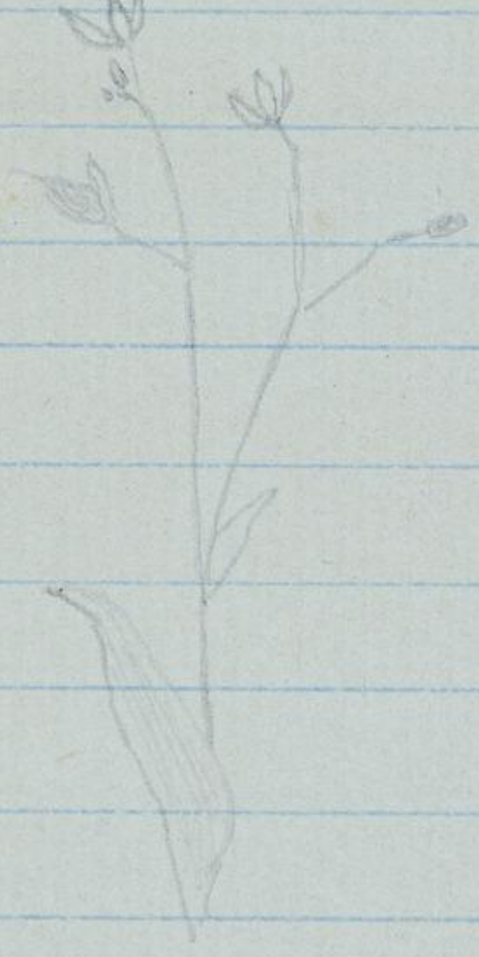
1545. F. 553.

ANEILEMA DIMORPHUM. Commelinaceae

Fl. few flowered blue white 3 sepals conspicuous after flowers has fallen. (Sept)

Fr.

Leaves



On Shola edges on the slopes of Kurroonie

972 F.374
Pedaliaceae
[Scrophulariaceae]

PEDICULARIS ZEYLANTCA X

Purple Pedicularis.

Fl. Pink-rik-red, occasionally Pure white. (Sept-)

Fr.

Leaves.

On the grass-slopes of Kunnoonie.

1528 F.547 125

ITHIGENIA INDICA

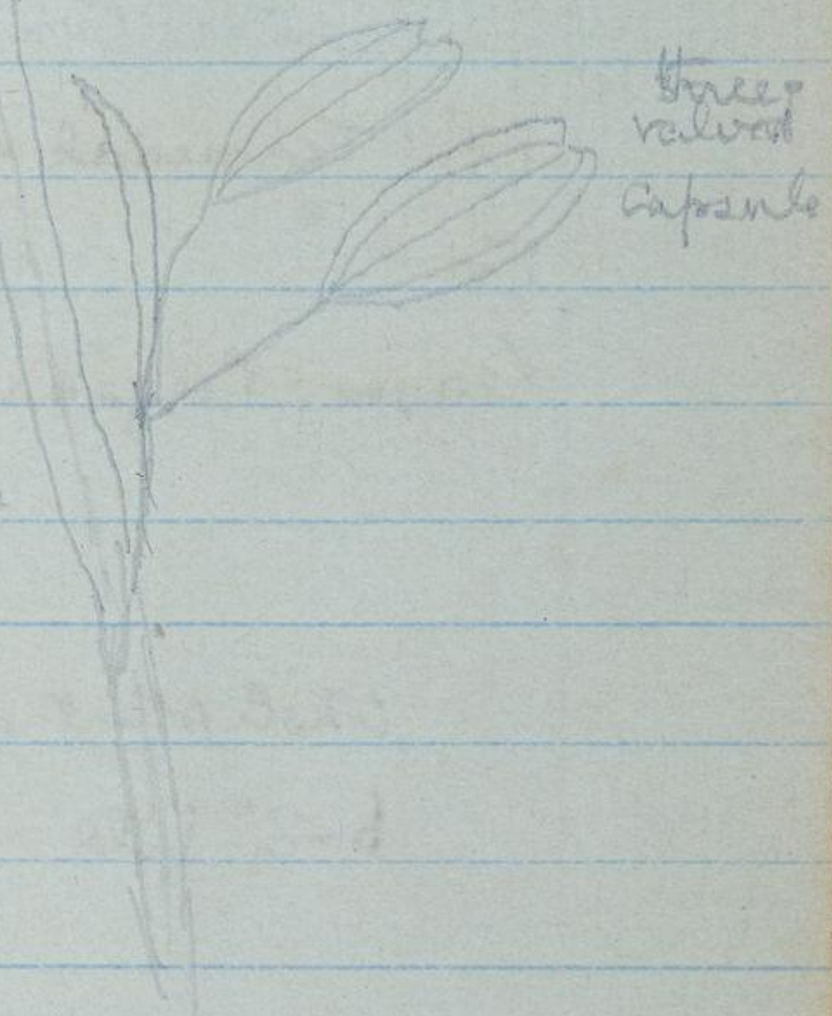
Liliaceae

Ithigenia

FR. Dark purple; small, perianth limbs very narrow

FV. (Sept)

Leaves narrow grass-like



On the Mottai in the grass, common.

On many other grass patches on the mountainside, where there is grass not too tall.

126

295. F.109.

Leguminosae

CROTALARIA ALBIDA × ~~I~~ Papilionatae I Genisteae

Mountain Crotalaria.

Fl. Terminal racemes. Flower ·4" Yellow (Sept)

Fr

Leaves. Very small, simple, wedge shaped. ·5" × ·1" pellucid-punctate.

Whole plant with short appressed silky pubescence

6-8" tall growing in grass.

On the grass slopes of Kunnoonie

1521 127

DIANELLA ENSIFOLIA Liliaceae

Blue Dianella

Fl. Blue (Sept)

Fr. cobalt blue berry (Sept)

Leaves up to 3ft long not more than 1" wide.

In light Forest where there is not much undergrowth

128

873

EXACUM COURTALLENSE

Gentianaceae

Bushy Gentian

Fl. Corymbs of 3 or so atead of leaf branches Palish blue corolla lobes .4" (Sept)
calyx lobed winged.
Fr.

Leaves. Fleshy, three-ribbed. 3" x 1" up to this, no petiole, tips recurved.

A low, bushy, much-branched herb. Flowers small Gentian Nos 52, 53.

Common on Mottai & such grassy slopes

129

89

SIDA GLUTINOSA

Malvaceae

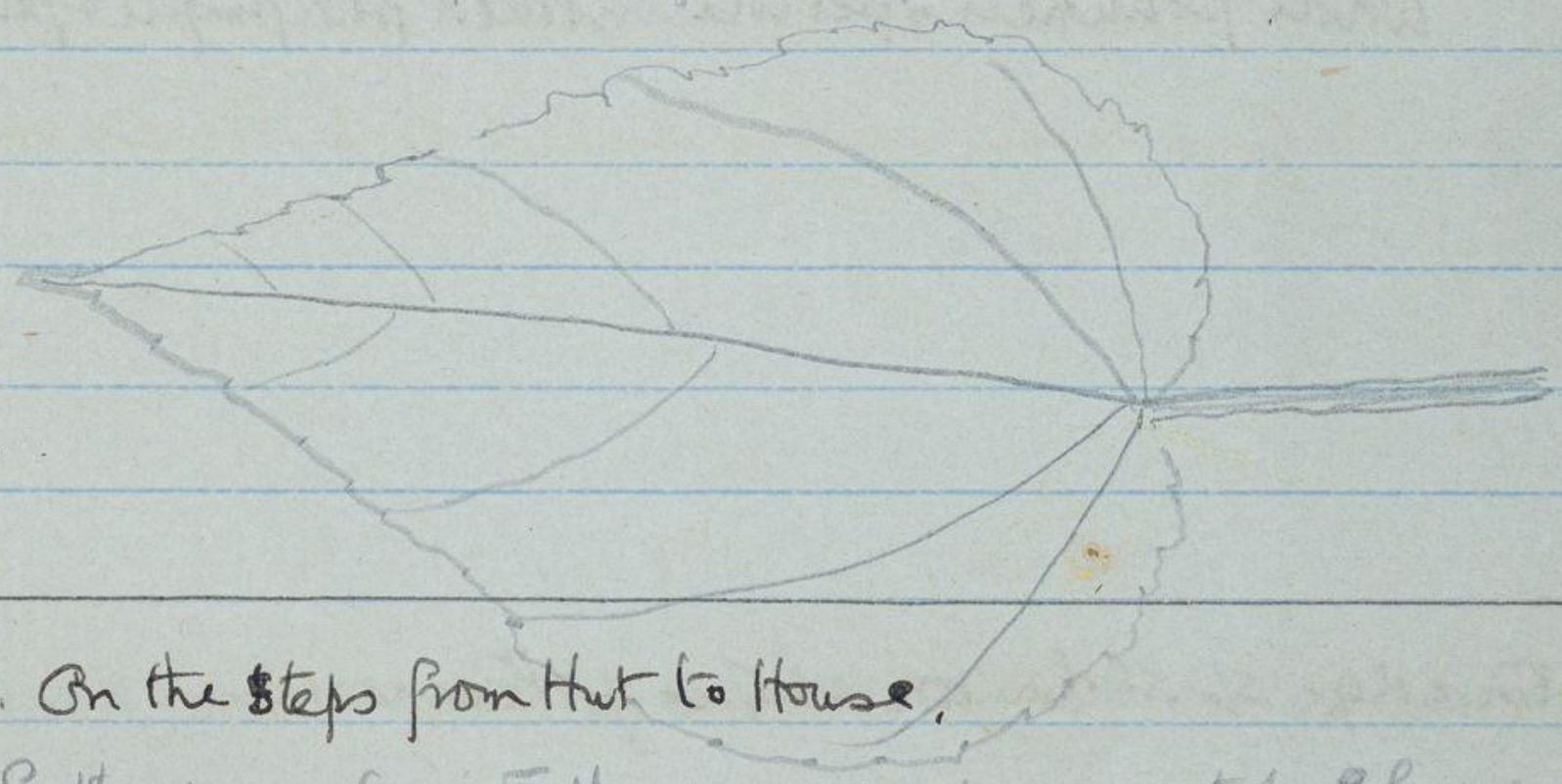
Sticky Sida

Fl. Pedicel jointed in the middle (Sept)

Fr. Carpels awned 5.

Leaves and stoutish branches glutinous i.e. sticky.
tomentose, long acute

Main stem swollen near the top (blight?) on all specimens near Jewel Hse 1942.
not on specimen found Sept 1943



Fe. H. On the steps from Hut to House.

Main Path down from F.H., 400 yds down on top of huge rock on N of path

130

1584

ARISAEMA TORTUOSUM

Araceae

Cobra flower.

Fr.

7" tall 5½" circumference on a 1ft peduncle

Fr. 3" on a 7" peduncle coming out of side of petiole. masses of shining dark green berries. The whole 1" diameter. berries varying size.

Leaves. 1-3ft petioles leaflets 5-18 (15 in one frond).

leaflet 1.5" long.

(Fruit Sept.)

Whole peduncle & petiole mottled pale purple & pale green.

On edge of shola on slopes of Kunnoonie.

499 131

SONERILLA ELEGANS Melastomaceae

Fl. Petals 3, Pale purplish-white, in a scorpioid cyme.
Fr. A capsule enclosed in persistent calyx tube
Leaves purple veined beneath, membranous, Veins 1 pair from base, another pair a little higher up, arching almost to meet at the apex minutely serrate margins acuminate apex, cordate base 3" long + (½" petiole. Sparsely dotted above & below with white glandular hairs.

In moist forest near the top of the Snake Valley Path.

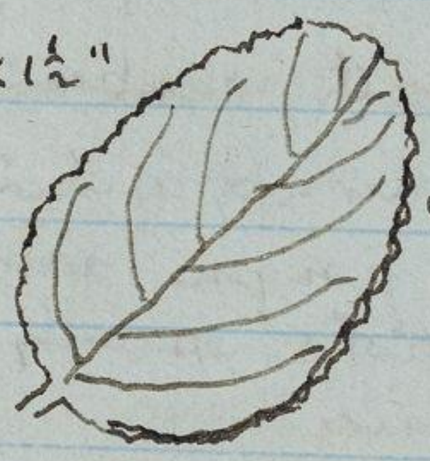
132

WIGHTII
or PANICULATOS

1127

ANISOCHILUS SCABER X Labiatae

Fl. Deep purple, in cylindrical whorled purple spikes, (Sept)
Fr. sometimes 3 branched, peduncle dark purple. Flowering scape 8-9 1/2 ft

Leaves Up to 3" x 1½"  + 1" petiole.

very thick, fleshy, softly tomentose

whole stalk of plant purple.

In grass on hillsides and mountain tops

704 133 F. 279.

MOONIA HETEROPHYLLA X Compositae 5. Helianthreae

Shola Daisy

Fl. White rayed, yellow centre about 6-7 deeply (Sept-) cut white ray florets

Fr.

Leave Opp. pennate toothed

upto 2½ feet tall.

"In damp shady places"

On the edge of the first Shola on Elephant Path, also on the edge of Sholas down Kunnoonie Ridge.

134

565.

HERACLEUM FIGERS var. multiradiatum? × Umbelliferae

Mountain Cow Parsnip.

Fl. Yellow ray petals very small

Fr. .3" x .175" wing narrow.

Leaves lower. bipinnate deeply lobed, serrate. hispid above & below

Upto 3 ft in height.

On the S. slopes of Tumamoc.

58. F. 23. 135

POLYGALA SIBIRICA X — Polygalaceae

Mountain Polygala

Fl. Deep red purple (colour conspicuous in the grass) (Sept) May.

Fr

Leaves small

Low-lying in grass

On the grass slopes of Kunnoonie. N.K.T.

136

976.

CHRISTISONIA SUBACAULIS Orobanchaceae

Fl. Large, white, margins of corolla lobes pale blue (Sept)

Fr.

Leaves none

Appearing straight out of the ground with no stem to speak of.

[Compare H II 49 C. bicolor]

CHRISTISONIA TUBULOSA 975

3-4" stalk Simms Path.

possibly the above is also this

70. F32 187

HYPERICUM JAPONICUM × Hypericaceae

Marsh St John's Wort

Fl. Yellow (very small) sepals not gland-tipped. (Sept)

Fr. Red.

Leaves., sessile very small.

Small herb in marshy land

In the marsh on the Ramparts. Small marshes in Tarakanar T.

138

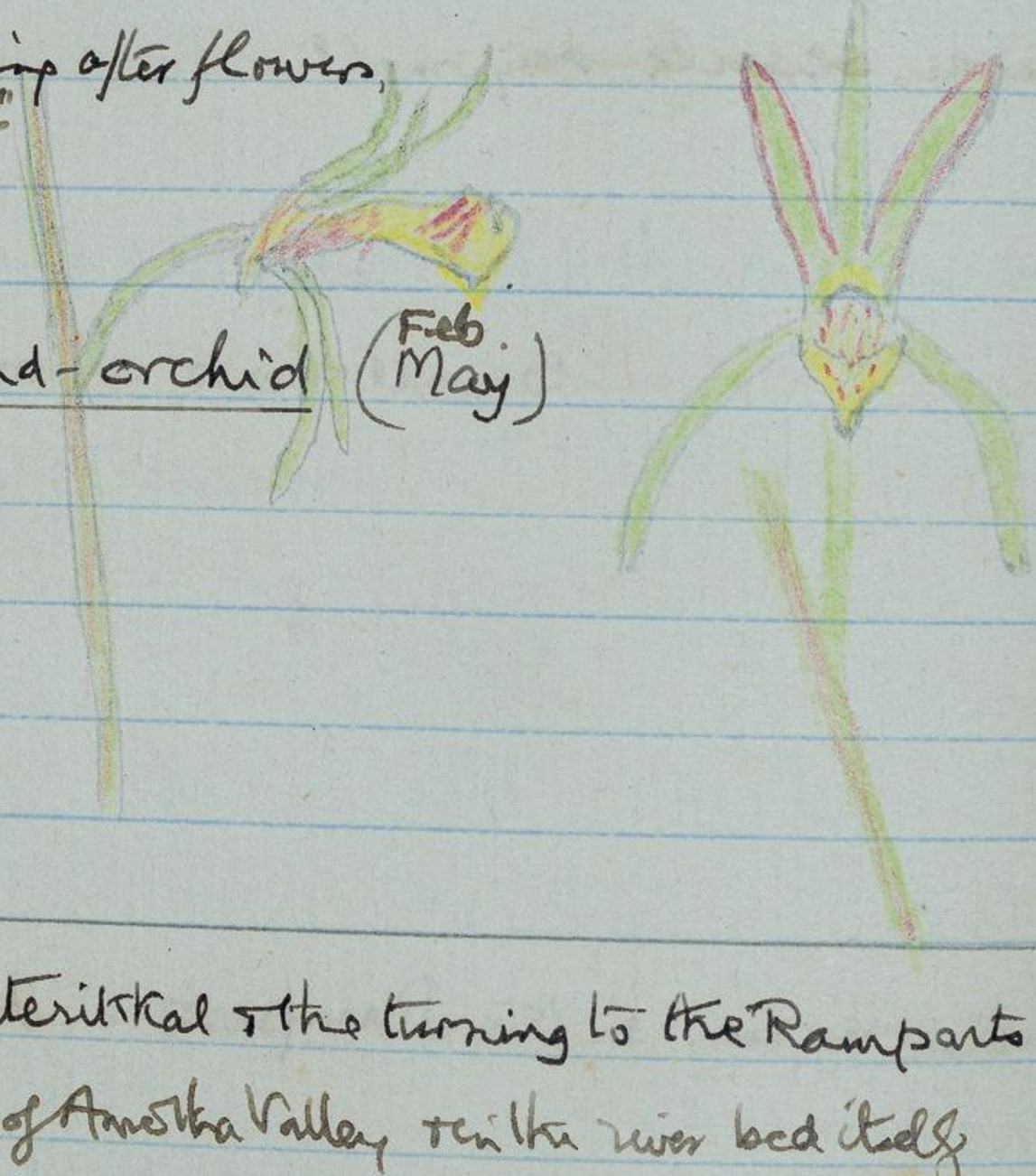
1427
~~1459~~

TAINIA BICORNIS
~~NERVILIA CARINATA~~ ×

Orchidaceae

Fl Sepals & petals pale green, lip yellow with purple veins & spots. Softly spread 2" across
upto 9 on a stalk. narrower than petals
Fr. FEB.

Leaves. One, appearing after flowers,
stalk 8" + blade 8" × ½"



Ground-orchid (Feb May)

In wood between Nateritkal & the turning to the Ramparts.
Common on ridge S of Amoltka Valley & in the river bed itself

139

1415

DENDROBIUM NANUM

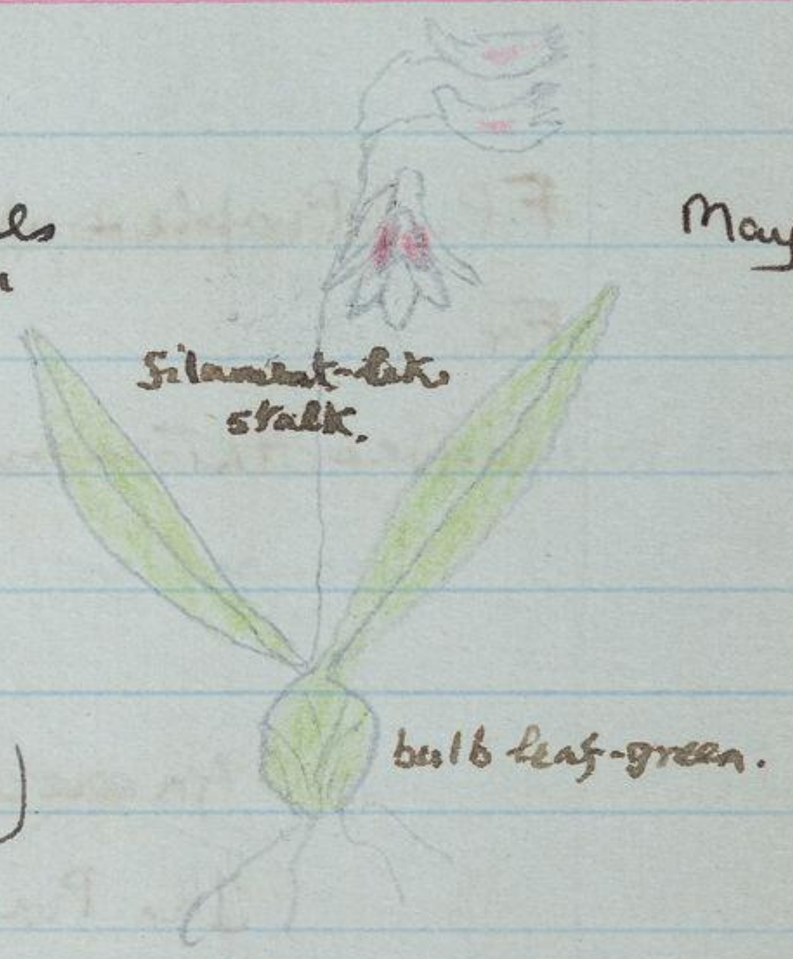
Orchidaceae

Fl. Sepals not pink as in No 94 & wider petals
dark bright pink inside blotd on either side
rest white.

May

Fr.

Leaves wider than 94.



Rock Orchid (May)

Snake Valley where path crosses stream high up.

140

668

ADENOON INDICUM X Compositae 1. Vernoniea

Purple Scabius

Fl. Purple - upright corymbose panicles few headed (Sept-)

Fr.

Leaves. ALT sessile, coarsely serrate, rough,

An erect, rigid, scabrous herb. Stem with rough black hairs

The Purple Scabious of the upland slopes

On the grass-slopes of Kunnoonie.

114a See NO33? 674

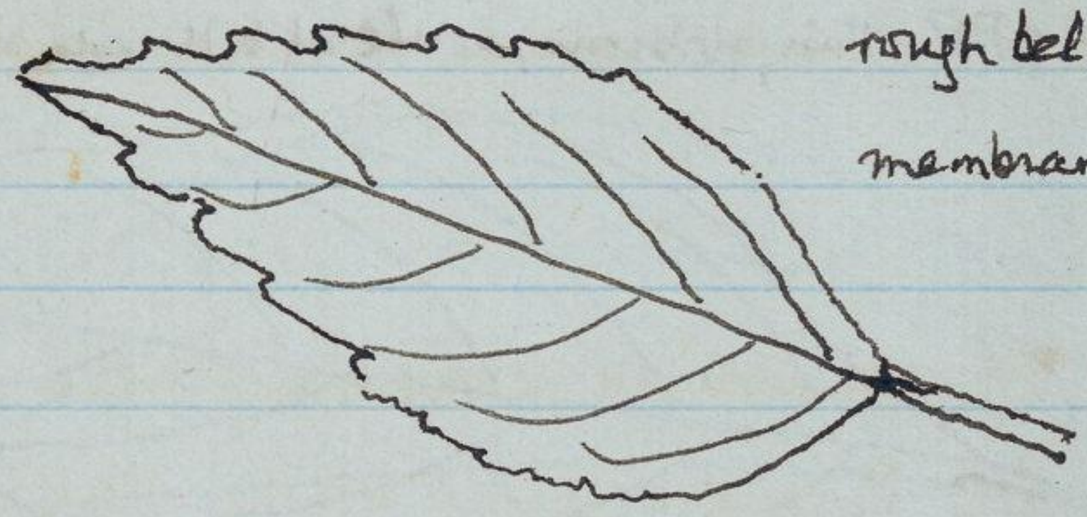
VERNONIA CINEREA. Compositae. (Vernonieae

Forest Ironweed

Fl. Purple less than ½" diameter in loose panicles. (Sept)

Fr. (It depends on the angles or ribs of the achenes!)

Leaves



rough below Tomentose above

membranous.

A slender 2-3 foot undershrub

In light forest or on forest paths — Snake valley park lower part.

142

1071

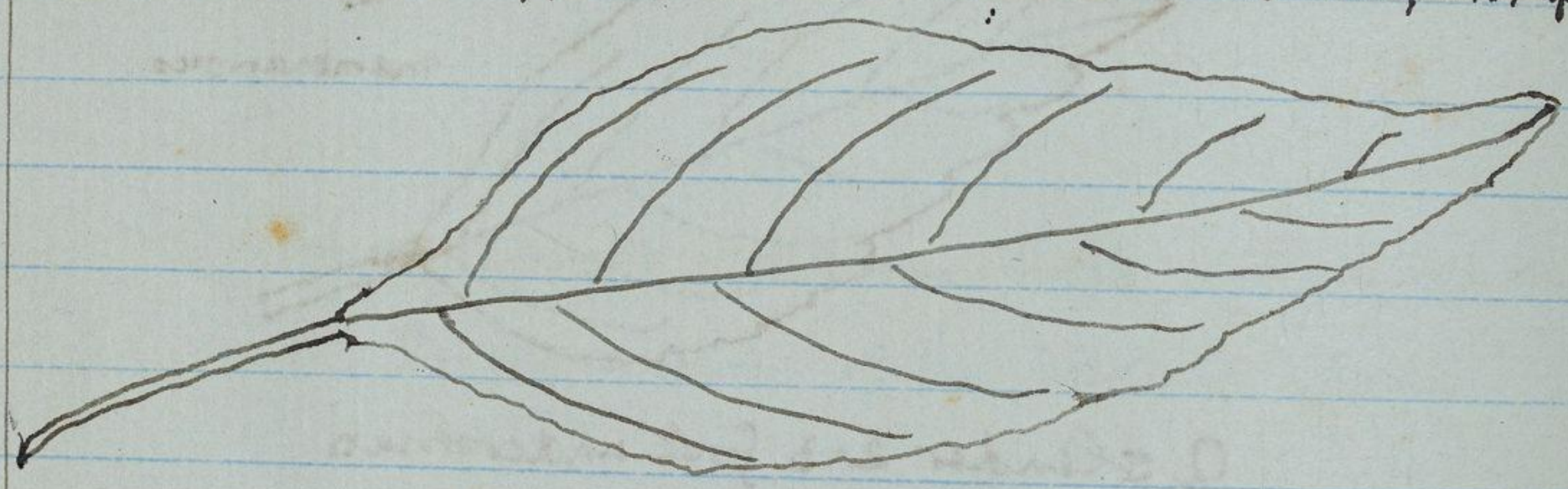
RUNGIA WIGHTIANA

Acanthaceae

Fl. White with purple veining on lower lip. | Bracts white scarious margined, round at apex, glabrous. Common Feb, Mar. (Mar. Sept). conspicuous
Fr. Stamens 2. upper lip of corolla acute.

Lateral spike, ~~branched~~ panicles 2-3" long.

Leaves. OPP. thin, glabrous, acute at both ends main veins 6 pairs. up to 7" x 2"



In river beds – far up Amaltha River bed,
Where Panther Path climbs S bank of river 30 yds up is a small river bed – 10 yds up that, to the W. side of it
In light forest all up Vibahara Path to the top. (very common)

1379. F.477.

PILEA TRINERVIA

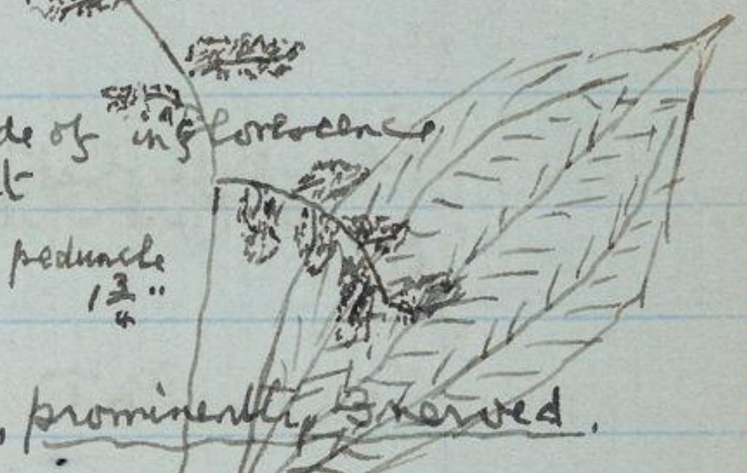
Urticaceae

False Nettle

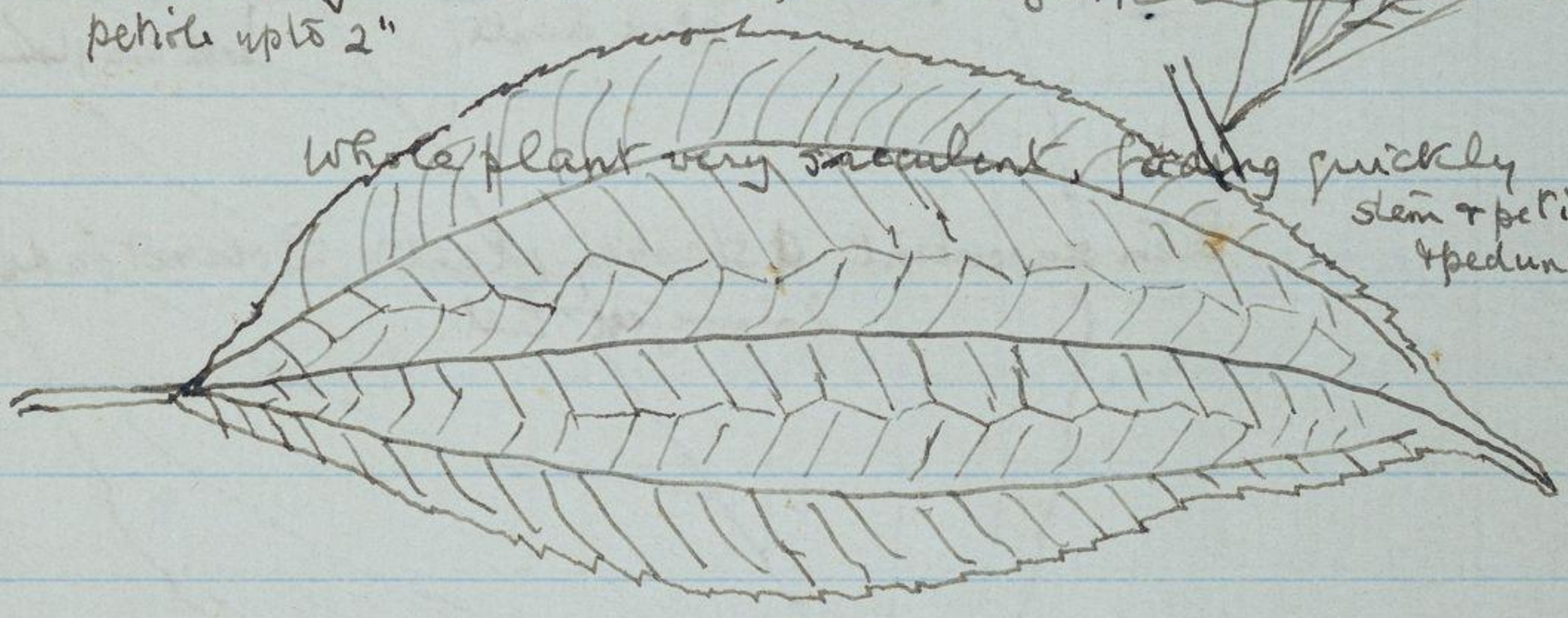
Fl. greenish white. very small, (Sept) gives idea of lop side of inflorescence being all flat

Fr.

peduncle 1 3/4"



Leaves. OPP. glabrous, aromatic, toothed edge, prominently 3 nerved.
petiole upto 2"



Whole plant very succulent, leading quickly

stem + petioles + peduncles red-green.

On shady wet banks by river-beds. - Amatka Valley

144

143

IMPATIENS. GRANDIS

Geraniaceae

Fl. White flaked with crimson. Flowers large $1\frac{3}{4}$" sepals obovate, acute, lip with spur tubiform. Peduncle dividing into 2 pedicels 3" long. (Sept)
or Pure white. with shades at base.

Fr.

Leaves. Alt. fairly toothed, glabrous long stout petiole (2") 6" x 3"
apex acute with two glands on it

Stem succulent, a shrubby plant. Does not fade when picked
2 or more feet tall.

Sungeetha Valley a long way up, in a crack on a rock face.

Venganayahum Anicut on bank of training wall & in stream bed.

? On top of Coronation Rock.

Naturikkal Anicut.

145

HLL

LIPARIS LONGIPES Orchidaceae

Fl Scape + racem up to 10" naked below flowers very many minute .08". White
"lip broadly ovate, subacute recurved, column with wound unappendaged wings."
actual flowering part 3 scape 4" Smells not very nice. Drooping

Leaves up to 12" x 1¼" 2 (or more up to 4)

(Rock Orchid on earth) i.e. Ground Orchid. (Sept (Oct)

Drooping scapes look very pretty. (Probably 150 flowers on one scape.)

Sungeetka Rajirbeg — By the second small pool 200 yds or so up from bridge. on right going up.

Vihahara Path — 20 mins up from Boundary. Hundreds in slopeside path

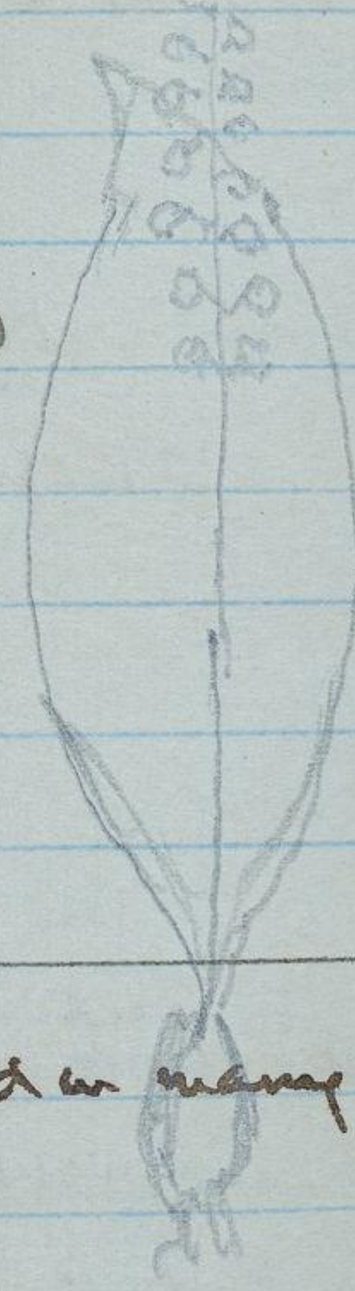
146

LIPARIS PUSILLA X Orchidaceae

FR Very small yellow, scent strong like Plantain garden flower—honey smell.
~~yellowish~~

Fr- (in fruit the scape looks a bit like a small mignonette)

Leaves. One leaf only



Tree Orchid (Sept)

The Elephant Word, SE of Kumasi. and in many such Shrubs.

OBERONIA/LINDLEYANA X Orchid area

Fl. Red brown in colour - the whole pendant spike.

Fr.

Leaves Brownish

Tree Orchid (Sepl)

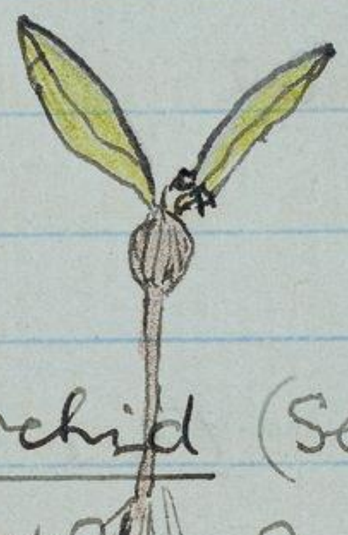
148

ERIA PAUCIFLORA X Orchidaceae

Fl White small bell-shaped 2-3 flowered on slender pedicels
Sweet-scented

Fr.

Leaves 2 or 3 leaves.



$2\frac{1}{2}$" x $\frac{3}{4}$"

Tree Orchid (Sept, Oct)

a longish brown stalk at bottom of which are roots, at top of which is a pseudobulb out of which spring leaves & flowers.

The Elephant Wood. S.E of Kunnoonie.

Vibahara Palk - high up near Grassy Palk & beyond it.

345 149

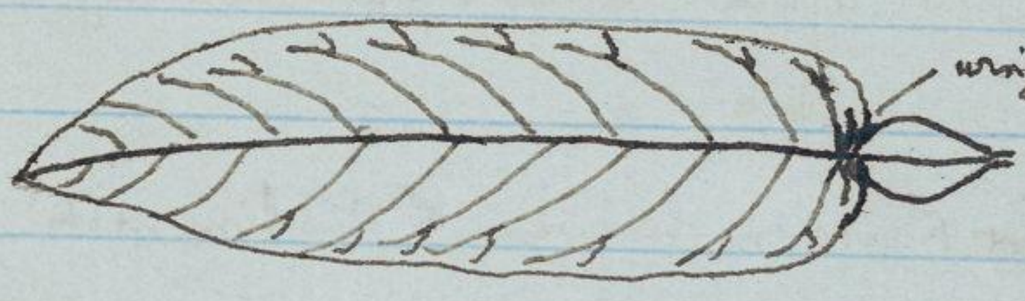
Leguminosae

DESMODIUM TRIQUETRUM I Papilionatae 4 Hedysareae,

Fl, Pink-purple, terminal racema. (Sept.)
Fr. 6-8, squarish joint. Stamens monadelphous, the vexillary one free above the middle.

Leaves Leaflet 1. lanceolate, petiole broadly winged. ALT.
Leaves at base much more ovate.

Upright, twiggy stem with one, or upto 3,4 branchings.



wings of petiole overlap base of leaf.

brown, deciduous, 2 horned stipules 2 per leaf.

W. Corner of Garden on Pantiles path upper side wild grass, on path's edge.

150

499.

SONERILLA TRAVANCORICA, Melastomaceae

Fl. Small, pinkish in scorpioid cyme.
Fr

Leaves Edges of leaves ciliate & sparse white bulbous hairs on top & a few on veins below. $1\frac{1}{2}" \times \frac{3}{4}"$ petiole 1" toothed acuminate subcordate at base. 2 pairs of basic nerves & another pair a little higher up.

8" – 1' tall herb, stem four-angled.

N.B. Look for Raison leaves to distinguish from No 131?

Far up Sungeltha Valley where the river bed divides on left rock ascent. W fork. Promised Land Sholas.

97. F-40 151

HIBISCUS ANGULOSUS. Malvaceae

Forest Hibiscus

Fl. Large, yellow

Fr. 5(-6) carpels, fruit opening into.

Leaves. Large, Soft-'white furry'; 5 lobed.

2-3 feet tall

In the long grass, on the slope S. of the upper garden.

152

1474

PERISTYLUS (~~BRACHYPHYLLUS~~ LANCIFOLIUS)

Orchidaceae

Fl. Leaves green. (like Fyson 524 in appearance), lip yellow ~~3~~ 3 lobed. spur shorter than sepals
2 side lobes, green, long, filiform.

Fr.

Leaves spotted round stalk largest in centre becoming smaller above & below

Ground Orchid (Sept-)

In grass near Sugar loaf Hill in Promised Land Sept'44

In grass beside the Elephant Path. S. slopes of Kunoonie. Sept'47

153

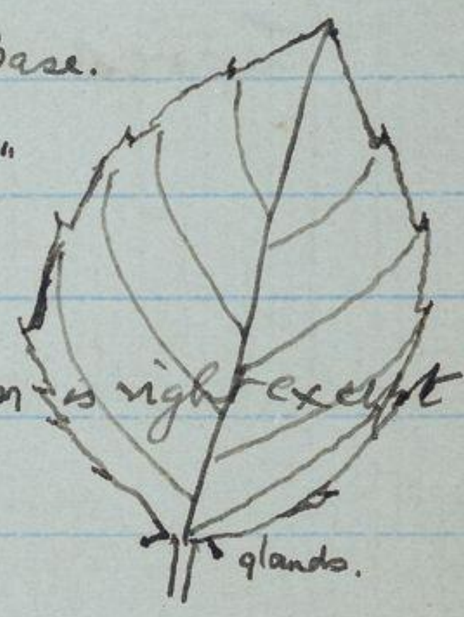
139.

~~Impatiens~~ IMPATIENS AURICULATA. Geraniaceae

Fl. Sepals pendulous Scarlet .6 linear .2 broad (wings only .2 long) Lip green, red vein at top. Petals-wings green; standard Keeled, darker green.
Fr. In leaf axils, umbelled. Fl^{s}. usually 2.

Leaves. Fleshy. petiole .3" leaf. 1½"x1", glabrous, 2 glands at base.

Stem very swollen (& scarred with old leaf scars) 2"



An Epiphytic Balsam. All description is right except that this has green wings & Gamble says purple.

On Lichened Trees on Kunnoomia Ridge & Sholas in Promised Land.

154

494. F. 172 (rosea)

OSBECKIA CUPULARIS × Melastomaceae

Fl White tinged with pink — small. (Sept)

Fr.

Leaves

In grass on slopes of Kunnoonia.

936

✓ SOLANUM NIGRUM Solanaceae

Black-berried Solanum

Fl. White (Sept-)

Fr- Black EDIBLE.

Leave-

Unarmed plant, slender annual upto 2 ft.

Dried unripe berries used for curry — fruit edible.

Beside S wall of Jewel House Hut. 942 Sebk

Between Upper & Lower Rivers

156

CHLOROPHYTUM HEYNEI — Liliaceae

Forest Asphodel.

Fl. White – raceme very short.

Fr 3 sectioned from above.

Leaves. Veins 12-14 pairs parallel. 11" x 2" narrowed into a petiole

flowering plein 2" 22

Cp. No 118.

On path to David's Rock, near Huts, much on path to D.R. from Forest Ltge.
On top of huge Changing Room Rock at Maratha Post.

38.F.14 157

Cruciferae

BRASSICA JUNCEA

Indian Mustard.

Fl. Yellow

Fr. Long very slender pod.

Leaves

Katerikkal.

158

607

OPPHIORHIZA HARRISIANA

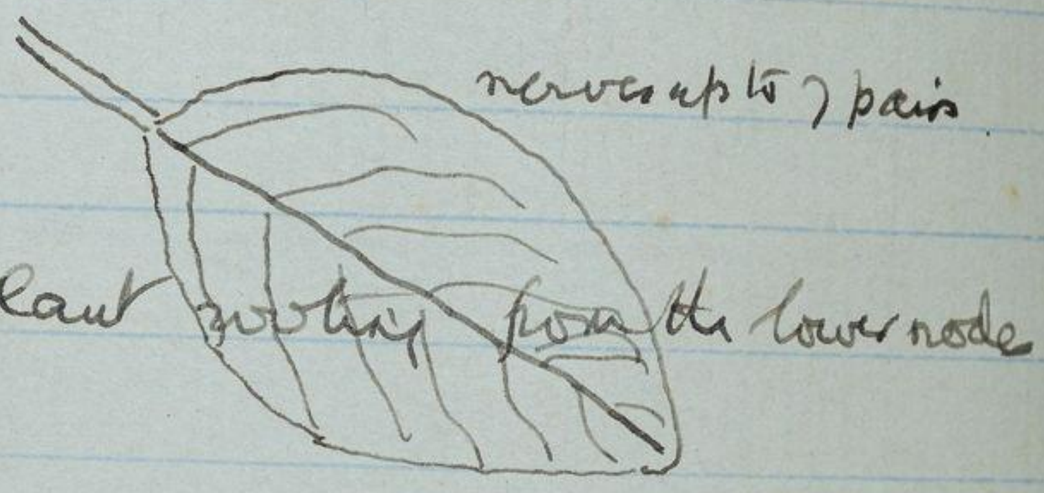
Rubiaceae

Fl Small pinkish white

Fr.

May.

Leaves Pale beneath glabrous membranous



Low, soft, herbaceous plant growing from the lower node

Vibakaran Path. - Beyond the grass patch in open bit of forest before the thorn palms.

Index by Natural orders.

Cruciferae
Brassica juncea 157
Polygalaceae
Polygala javana 2
rosmarinifolia 3
Dolbothrix 4
sibirica 135
Hypericaceae
Hypericum japonicum 137
Malvaceae
Sida glutinosa 129
rhombifolia 5
Urena lobata 6
Hibiscus angulosus 151.
Tiliaceae
Triumfetta rhomboidea 7
Geraniaceae
Oxalis corniculata 8
Oxalis 9
Impatiens pusilla 10
Impatiens auriculata 153
Roxburghiana 11
grandis 144
Leguminosae I Papilionatae
Crotalaria albida 126
calycina 18
Indigofera pedicellata 12
Tephrosia tinctoria 13
Pycnospora hedysaroides. 14
Desmodium triquetrum 149
parvifolium 15
scalpe 16
triflorum 17
II Caesalpinioideae
Cassia leschenaultiana 19
Crassulaceae
Kalanchoe grandiflora 20
Droseraceae
Drosera peltata 21
Burmanni 22
Melastomaceae
Osbeckia cupularis 154

Sonèrilla elegans 131
Travancorica 150

Begoniaceae

Begonia malabarica 23
Floccifera 24

Umbelliferae

Bupleurum mucronatum 25
Pimpinella candolleana 26
Heracleum 134

Rubiaceae

Anotis longiflora 27
Leschenaultiana 28
Ophiorrhiza harrisiana 158
brunonis 29
eriantha 30
Knoxia mollis 31
wightiana 32

Compositae

Adenoon indicum 140
Vernonia 141
Vernonia cinerea 33
Ageratum conyzoides 34
Anaphalis travancorica 35
lawii 36
Moonia heterophylla 133
Spilanthes acmela 37
Bidens pilosa 38
Galinsoga parviflora 39
Tridax procumbens 40
Gynura nitida 41
travancorica 42
lycopersicifolia 43
Emilia scabra 44
sonchifolia 45
Notonia 46
Senecio polycephalus 47
Sonchus arvensis 48

Campanulaceae

Lobelia nicotianaefolia 49
Wahlenbergia gracilis 50
Lysimachia deltoidea 51

Gentianaceae

Exacum travancoricum 52
128
contallense 51

atropurpureum 53

lawii 54

Gentiana quadrifaria 55

Swertia corymbosa 56

Boraginaceae

Cynoglossum furcatum 57

Convolvulaceae

Evolvulus alsinoides 58

Solanaceae

Solanum laeve 59

nigrum 155

indicum 60

Scrophulariaceae

Torenia contallensis 61

Striga orobanchoides 62

lutea 63

Sopubia delphiniifolia 64

Sopubia trifida 65

Pedicularis zeylanica 124

Orobanchaceae

Christisonia subacaulis 136

Lentibulariaceae

Utricularia coerulea 66

roseapurpurea 67

Gesneriaceae

Didymocarpus 68

Acanthaceae

Andrographis neesiana 69

Crossandra undulifolia 71

Rungia wightiana 142

Justicia simplex 70

Bouchea hyderabadensis 72

Stachytarpheta indica 73

Labiatae.

Orthosiphon comosus 74

Coleus malabaricus 75

Plectranthus coleoides 76

Arisochilus scaber 132
Scutellaria colebrookiana 77
Leucas biflora 78
vestita 79

Nyctaginiaceae
Boerhaavia diffusa 80

Amarantaceae
Celosia polygonoides 81
Amaranthus viridis 82

Piperaceae
Peperomia reflexa 83
dindigulensis 84

Euphorbiaceae
Euphorbia hirta 85
rothiana 86
Phyllanthus rheedii 87

Moraceae
Dorstenia indica, 88

Urticaceae
Elatostema sessile 89
lineolatum 90
Pilea trinervia 143

Burmanniaceae
Burmannia coelestis 91

Orchidaceae
Oberonia recurva 92
.lindleyana 147
Liparis walkeriae 93
fusilla 146
longipes 145
Dendrobium graminifolium 94
narum 139
Cirrhopetalum neilgherrense 95
Eria bractata 96
pauciflora 148
Coelogyne nervosa 97
Josephia lanceolata 98
~~Rhidoda imbricata~~
~~Oberonia recurva~~ 99
Arundina graminifolia 100
Luisia teretifolia 101

Saccolobium filiforme 102

Anoechtochilus elatior 103

Nervilia carinata 138

Habenaria longicalcarata 104

longicornu 105

perottetiana 106

crassifolia 107

Peristylus brachyphyllus 152

Phyllorchis obcordata 108

Satyrium nepalense 109

Disperis monophylla 110

Zingiberaceae

Amomum muricatum 112

Elettaria cardamomum 111

Marantaceae

Schumanniantus virgatus 113

Haemodoraceae

Ophiopogon intermedius 114

Amaryllidaceae

Curculigo orchioides 115

Liliaceae

Dianella ensifolia 127

Lilium neilgherrense 116

Asphodelus tenuifolius 117

Ipheion indica. 125

Chlorophytum malabaricum 118

heynei 156

Commelinaceae

Commelina hirsuta 119

clavata 120

Aneilema dimorphum 123

Cyanotis villosa 121

arachnoidea 122

Araceae

Arisaema tortuosum 130

40 Families. 157 species.

Index.

	Polygala javana	2.
	rosmarinifolia	3.
	bolbotrix	4.
	Sida rhombifolia	5.
	Urena lobata	6.
	Triumfetta rhomboidea.	7.
	Oxalis corniculata	8.
		9.
	Impatiens pusilla var.	10.
	Hensloviana	11.
P	Indigofera pedicellata	12.
P	Tephrosia Vicioïdes	13.
P	Pycnospora hedysaroides	14.
P	Desmodium parvifolium	15.
P	scalpe	16.
P	triflorum	17.
P	Crotalaria calycina	18.
	Cassia Leschenaultiana	19.
	Kalanchoe grandiflora	20.
	Drosera peltata	21

	Drosera burmanni	22
	Begonia malabarica	23
	floccifera	24
	Buplevrum mucronatum	25
	Pimpinella candolleana	26
R	Anotis longiflora	27
R	leschenaultiana	28
R	Oppiorhiza brunonis	29
R	erianthe	30
R	Knoxia mollis	31
R	wightiana	32
C	Vernonia cinerea	33
C	Ageratum conyzoides,	34
C	Anaphalis travancorica	35
C	lawii	36
C	Spilanthes acmella	37
C	Bidens pilosa	38
C	Galinsoga parviflora	39
C	Tridax procumbens	40
C	Gynura nitida	41

C	Gynura kawancorica	42
C	lycopersicifolia	43
C	Emilia scabra	44
C	sonchifolia	45
C	Notonia	46
C	Senecio polycephalus	47
C	Sonchus arvensis	48
	Lobelia nicotianaefolia	49
	Wahlenbergia gracilis.	50
	Lysimachia dektoides	51
	Exacum kawancoricum	52
	atropurpureum	53
	lawii	54
	Gentiana quadrifaria	55
	Swertia corymbosa	56
	Cynoglossum furcatum	57
	Evolvulus alsinoides	58
	Solanum laeve	59
	indicum	60
	Torenia courtallensis	61

Striga orobanchoides	62
lutea	63
Sopubia delphiniifolia	64
trifida	65
Utricularia coerulea	66
roseapurpurea	67
Didymocarpus	68
Andrographis neesiana	69
Justicia simplex	70
Crossandra undulaefolia	71
Bouchea hyderabadensis	72
Stachytarpheta indica	73
Orthosiphon comosus	74
Coleus malabaricus	75
Plectranthus coleoides	76
Scutellaria colebrookiana	77
Leucas biflora	78
vestita	79
Boerhaavia diffusa	80
Celosia polygonoides	81

Amaranthus viridis	82
Peperomia reflexa	83
Arrigulensis	84
Euphorbia hirta	85
rothiana	86
Phyllanthus rheedii	87
Dorstenia indica	88
Elatostema sessile	89
lineolatum	90
Burmannia coelestis	91
Oberonia recurva	92
Liparis walkeriae	93
Dendrobium graminifolium	94
Cirrhopetalum neilgherrense	95
Eria bractata	96
Cochlogyne nervosa	97
~~Pholidota imbricata~~ Josephia lanceolata	98
~~Calanthe~~ veratrifolia see II. 17.	99
Arundina graminifolia	100
Luisia teretifolia	101

Saccolobium filiforme	102
Anoechtochilus elatior	103
Habenaria longicalcarata	104
longicornu	105
perrottetiana	106
crassifolia	107
Phyllorchis obcordata	108
Satyrium nepalense	109
Disperis monophylla	110
Elettaria cardamomum	111
Amomum muricatum.	112
Schumanniaanthus virgatus	113
Ophioprogon intermedius	114
Cureuligo orchioides	115
Lilium neilgherrense	116
Asphodelus tenuifolius	117
Chlorophytum malabaricum	118
Commelina hirsuta	119
clavata	120
Cyanotis villosa	121

	Cyanotis arachnoidea	122
	Aneilema dimorphum	123
	Pedicularis zeylanica	124
L	Ithigenia indica	125
P	Crotalaria albida.	126.
L	Dianella ensifolia.	127.
	Exacum courtallense.	128
	Sida glutinosa	129
	Anisacanthus tortuosum.	130
	Sonerilla elegans	131
	Anisochilus scaber.	132
C	Mooria heterophylla	133
	Heracleum rigens	134
	Polygala sibirica	135
	Christisonia subacaulis.	136
	Hypericum japonicum	137
O	~~Nanubia cornuta~~ Tainia bicornis.	138
O	Dendrobium nanum	139.
C	Adenoon indicum	140
C	Vernonia cinerea	141

	Rungia wightiana.	142
	Pilea brinerva	143
	Impatiens grandis.	144
O	Liparis longipes	145
O	Liparis pusilla	146
O	Oberonia bidleyana	147
O	Eria pauciflora	148
P	Desmodium triquetrum.	149
	Sonerilla travancorica.	150
	Hibiscus angulosus.	151
O	Peristylus brachyphyllus	152
	Impatiens auriculata	153.
	Osbeckia cupularis	154.
	Solanum nigrum	155.
L	Chlorophytum Heynei	156
	Brassica juncea	157
R	Ophiorrhiza harrisiana	158

(b) whether the young weeds are affected more quickly than the more mature (c) if any weeds not affected at all, (d) in how many days all the weeds die.

The spraying should be done on a day when there is no wind, otherwise the spraying will be uneven. The plants should be well wetted all over with the mixture.

Sorry to trouble you; get Devonshire men to help. I think it's worth the trial.

Gratefully, Norman

Dear Godfrey, 4U8640 22 22 4 4 220

I am sending up a 22/2r spray pump & the "Agroxone" for the trial on the weeds. Please mark out with sticks as close as possible 10 cents of the garden, preferably a patch where all the weeds are present. The things to note are (a) which weeds are affected first & ~~on~~ on what day after spraying.

Bidens pilosa	Full control
Galinsoga parviflora	Full control
Tridax procumbens	Full control
Glycine nitida	to a certain extent
Conyza stricta	completely killed
(ambigua)	completely killed
(linearifolia)	

Best results when weeds are young

1 lb dilute with 10 gallons of water. Enough for 1/10th acre

Try different strengths — experiment

Nature forceds age. luxuriance

Agroxone selective hormone weed killer

Spray on weeds.

FRUIT

Liliaceae

Dianella ensifolia — BLUE DIANTELLA — Cobalt blue.
Lilium neilgherrense — NILGIRI LILY
Asphodelus tenuifolius — GRASS LEAVED ASPHODEL (Mottai gress)
Iphigenia indica (deep purple)
Chlorophytum malabaricum (no petiole) (high grass alpine)
Reynei (petiole) (low in forest)
attenuatum (leaves v. long) (En Vall. no Views Point)
Dracaena terniflora many sheathed leaves orange
Disporum leschenaultianum. SOLOMON'S SEAL
Sansevieria Roxburghiana. BOWSTRING HEMP

Amaryllidaceae

Curculigo orchioides — Yellow Star (in grass)

Haemodoraceae

Ophiopogon intermedius — white beading raceme.
Peliosanthes neilgherrensa. — dark green, bright blue

Zingiberaceae

Amomum muricatum — Spike oblong deep red
Elletaria cardamomum — Fl. white tipped.
Zingiber casumunar — Spike globular tapered.

Marantaceae

Schumannianthus virgatus. (Precipice Pool)

"There is a Providence that Shapes".

Lent 1932.
(6)

) COLOSSAE (

We are a strange folk. There are lots of people who seldom look at the stars, and yet if the news of the discovery of a strange planet reached them, they would experience like a thrill; and if it were reported in the newspapers of tomorrow that a new letter of St. Paul's (?) had come to light, recovered from the dust of the ages, such a find would cause a fever of excitement. But some people treat that little note of St. Paul's correspondence as no more than a dead letter. It is of no interest to them. I sometimes think it is a pity that we have so starched and ironed these letters of the New Testament, calling them by such a pompous name as "Epistles". We have robbed them of their homeliness; officialized them. We have taken something from their original character, so that what has been left has been obscured by rough handling, even mis-handling sometimes. We have turned them into theology and used them as tracts. It is so easy to turn religious bread into theological stones. It is good to remember that Paul's letters are real letters, produced with no special eye to catch the interest of a reading public; to make unlimited editions. They are not meant to be doses of doctrine or excellence of scholarship. They are free flowing and have been written in the white heat of sincerity, straight from the mint of the writer's heart, and upon them is cut the impression of the writer's personality. So this evening I propose to talk about this little note of St. Paul's, which we were reading a few moments ago.

It was never meant for publication, to be placed in the world's markets and come before a criticising public. In the early Churches' days this letter was not allowed to be included in the Holy Scriptures, because, if you please, there was not enough theology in it! It was too ordinary and too human to be included in the Holy Book. They did not see, of ocurse, that some quite good and religious people years ago had made the same protest against Christ. He was too commonplace, too ordinary and too human to be worshipped as Divine. That leads me to fly off, as St. Paul has a way of doing in his letters, into a digression.

What makes the Bible so living and so loving to me is this letter; the Word of God like a conviction of the truth-man's truth and God's Truth. It is thoroughly human, altogether