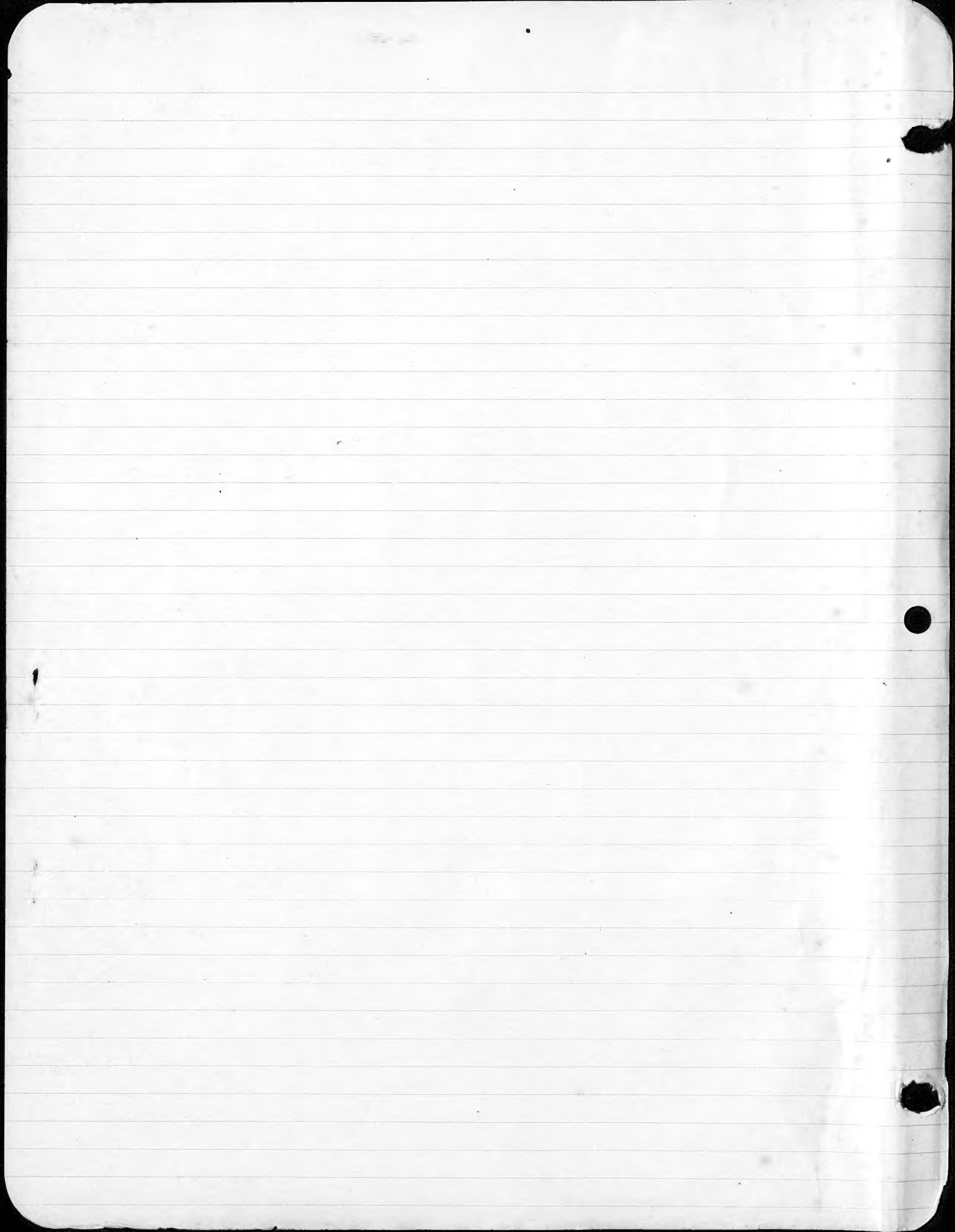


REG. U. S. PATENT OFFICE
COMMON SENSE BINDER
128 S
ASA L. SHIPMAN'S SONS
NEW YORK

1948 Archbold Cape York Expedition

Analysis of Plant Collections
by R. S. S. S.



Lockerie

Rain forest - main body:

Primary forest	p. 1
Primary forest margins	4
Secondary forest	5

Rain forest - "Islands"	6
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Rain forest - Gallery woods	7
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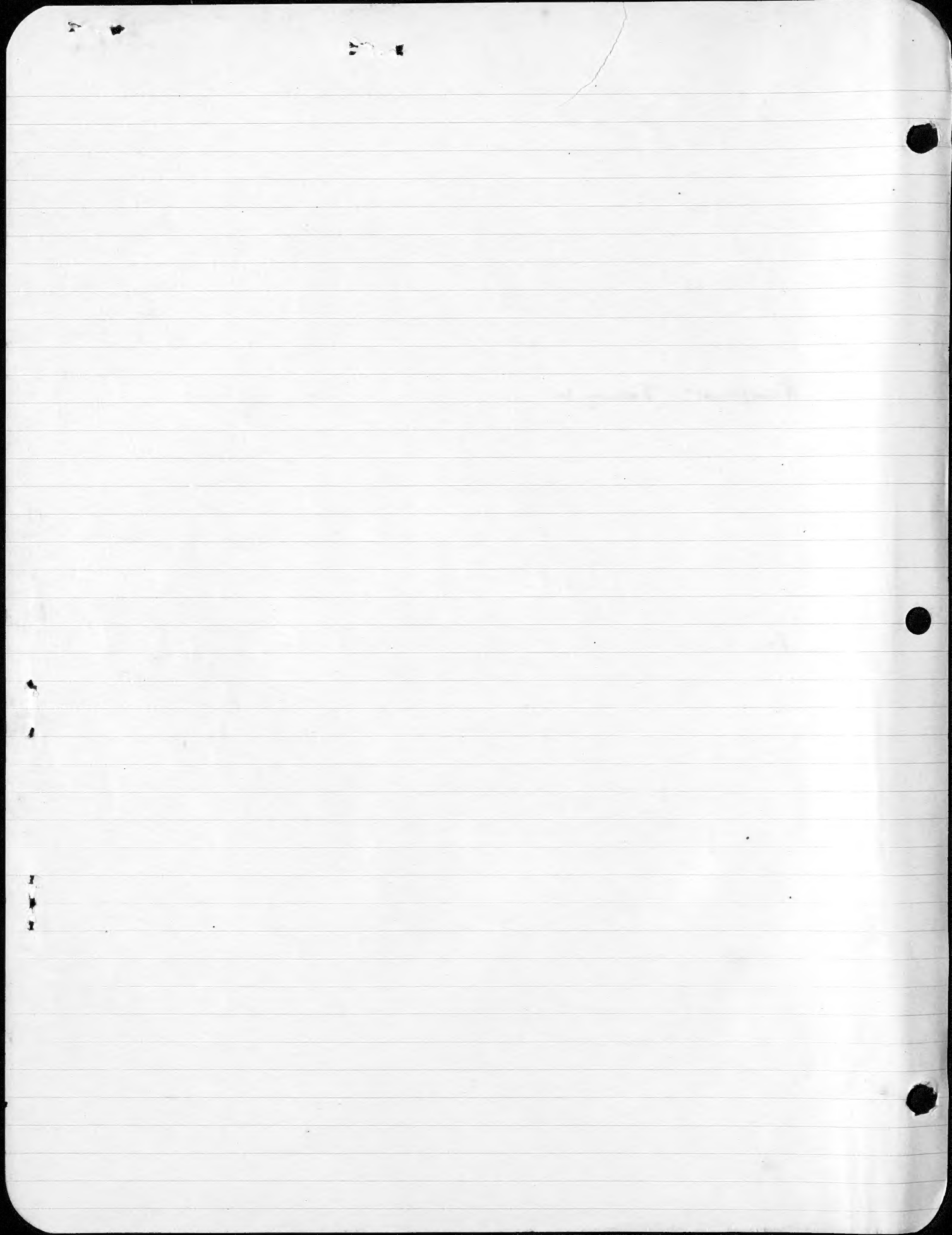
Black Tea-tree scrub	8
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Savanna forest; General	9
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Savanna forest of wet-leafed trees	15
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Tea-tree swamps	17
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Water plants	18
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Prockertia

Rain forest - main body on central ridge of Peninsula.
Continuous from near Red Island Point to near tip of Peninsula. Penetrated by pockets of savanna forest, mostly in valleys.

Pro

Canopy

18402. 0

18551. 0

18816. 7

V

1' for timber.

4. ? Eng
lean heavily.

81: up to 8.5' m
- 1A.
Lined:

Fulvia

18388.

89. 0

90

91. 1

18594. 0

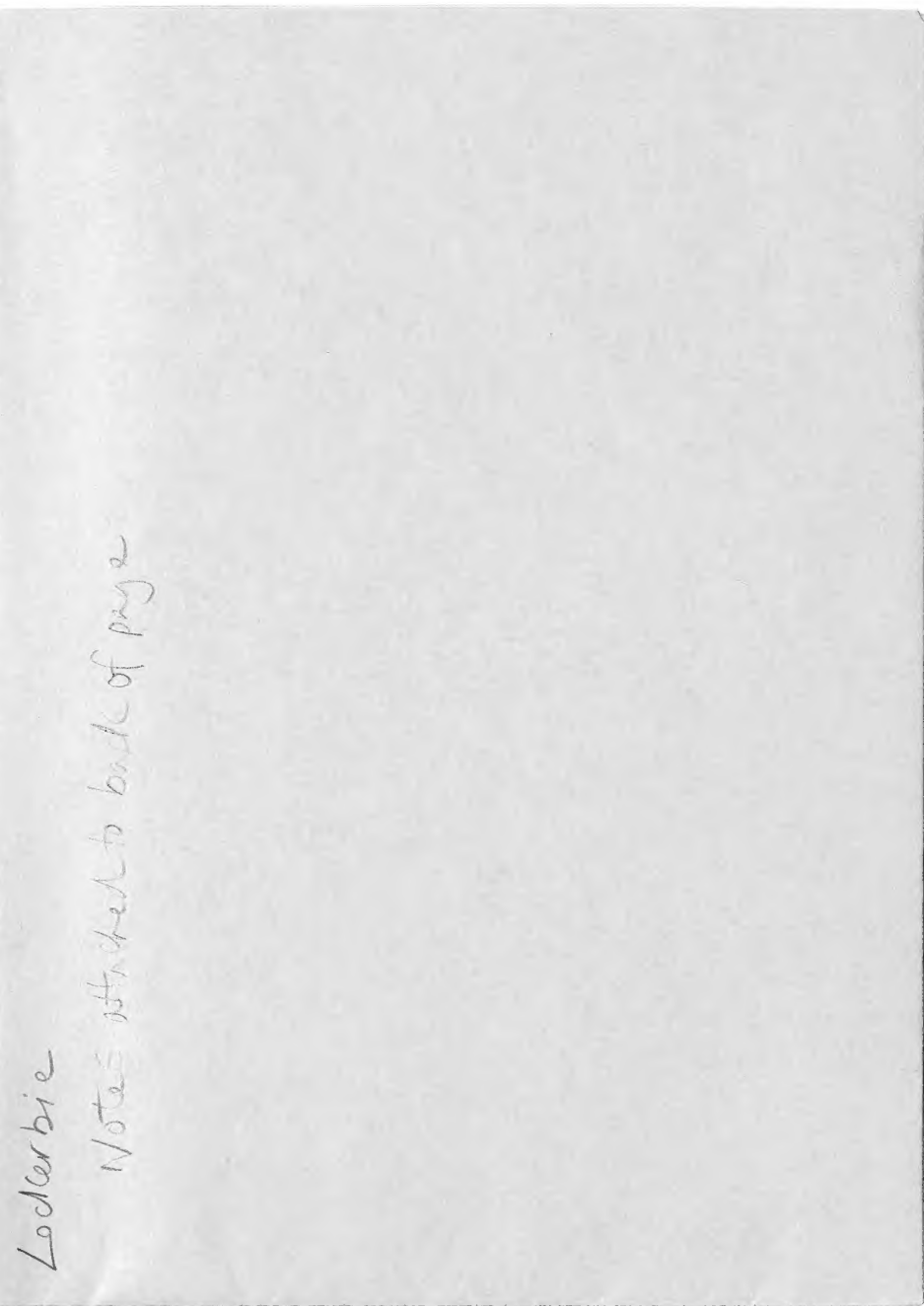
18808. 7

09. 0

10. 14

11. 0

12.



Lodderbie
Notes attached to back of page

0: ?

iii.

DIAMURRA
Stylinus pink

to a creek

near Summit with tall *Eulalia*? palms.

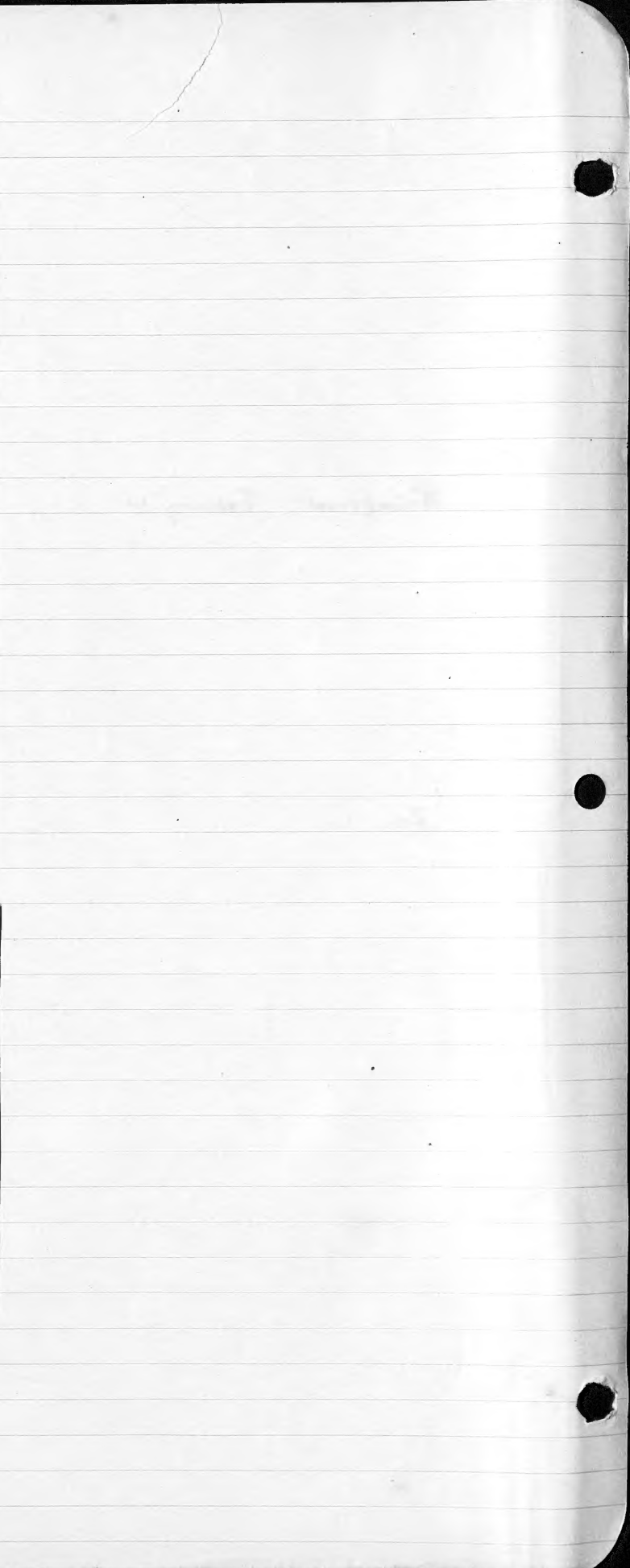
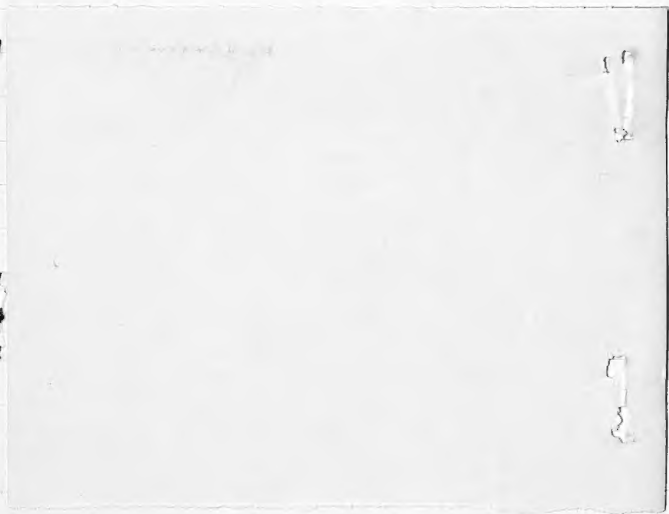
Eulalia? P. locally on banks of stream. ± 60 ft. (in groups).

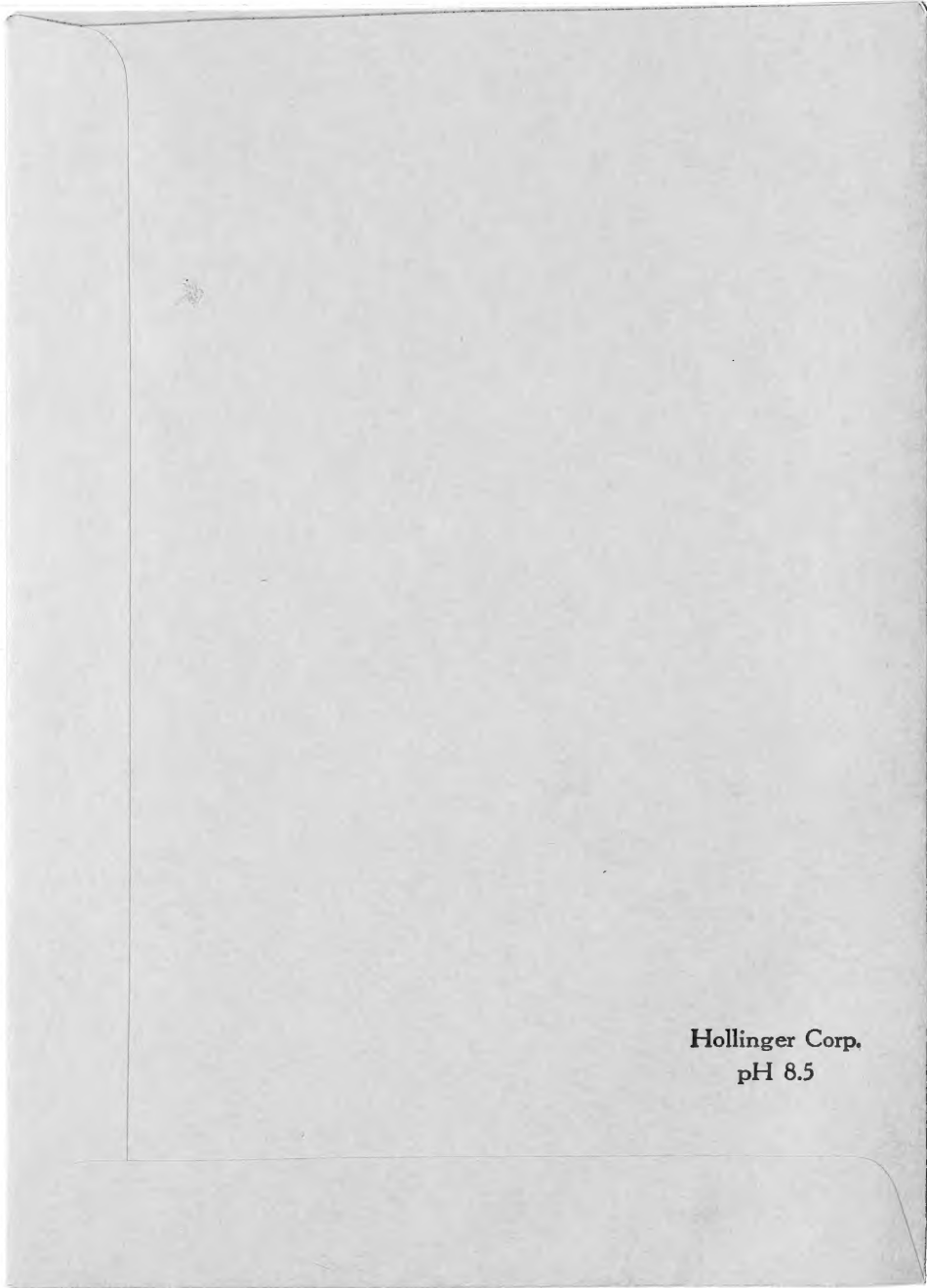
7 spp. Palms seen near Summit (2 fan-leaf, 1 *Calamus*, 1 *Boydel*, 3 *Pinna*)

Abbreviations

- A = Abundant
C = Common
Sc. = Scattered
*S. = Sporadic
F = frequent
O = occasional
Cm. = conspicuous
Fl. = flowers
Fr. = fruit
Lvs. = leaves
P. = plentiful
Un. = uncommon
Pr. = Crown
Wh. = white
Gr. = green
Prog. = progerious
Char. = characteristic
Sp. = species
Sp. = " Solit.
Sol. = Solitary
Blk. = black
R.F. = rain forest

- S.F. = Savanna forest
D. = dominant
Sol. = solitary





Hollinger Corp.
pH 8.5

Lockhartia

Rain forest - main body on central ridge of Peninsula.
Continuous from near Red Island Point to near tip of Peninsula. Penetrated by pockets of savanna forest, mostly in valleys.

Primary forest:

Canopy trees:

18402. *Rhaphanocarya*. C. up to 20 m. x 50 cm. Involucres of fl. only. Fruit for timber.
Sometimes out on S.F.

18551. *Tournefortia floribunda*. R.F. edges. Up to 20 m x 50 cm. Fl. young. Fls. ? Very soft sticky bark. Resin a gum used for caulking spear heads.

18816. *Tapsci*: O. in edges (E. in adjoining S.F.) ± 20 m x 25-30 cm. Fl. up to 9.5 cm dia. Bark thick, hard, corky, b., firm. WA-LA.

Acacia. "Some Hickory" R.F. edges & dry type of forest.

Subordinate trees:

18388. *Lam.* 15 m. x 20 cm. Fls. cream. Fl. young.

89. *Myrs.* Substage. 8 m x 10 cm. White fls. later pinkish. Fl. ?

90. F. in substage. 6-8 m. Fls. wh. Fl. ?

91. *Lam.* Substage. 8 m. Fl. young. Lvs. faintly aromatic.

18594. *Rub.* 15 m. x 25 cm. Fl. buds only. Fl. red, fleshy.

18808. *Lyggium* F. in substage. 6-8 m. Fls. wh (in bud only).

09. *Caryota* S. up to 16 m. x 20 cm. Fl. red. Lvs. ± glaucous. DAMURRA

10. *Alnus*. Substage 10 m. Fragrant fls.; yellow reflexed petals. Stipules pink.

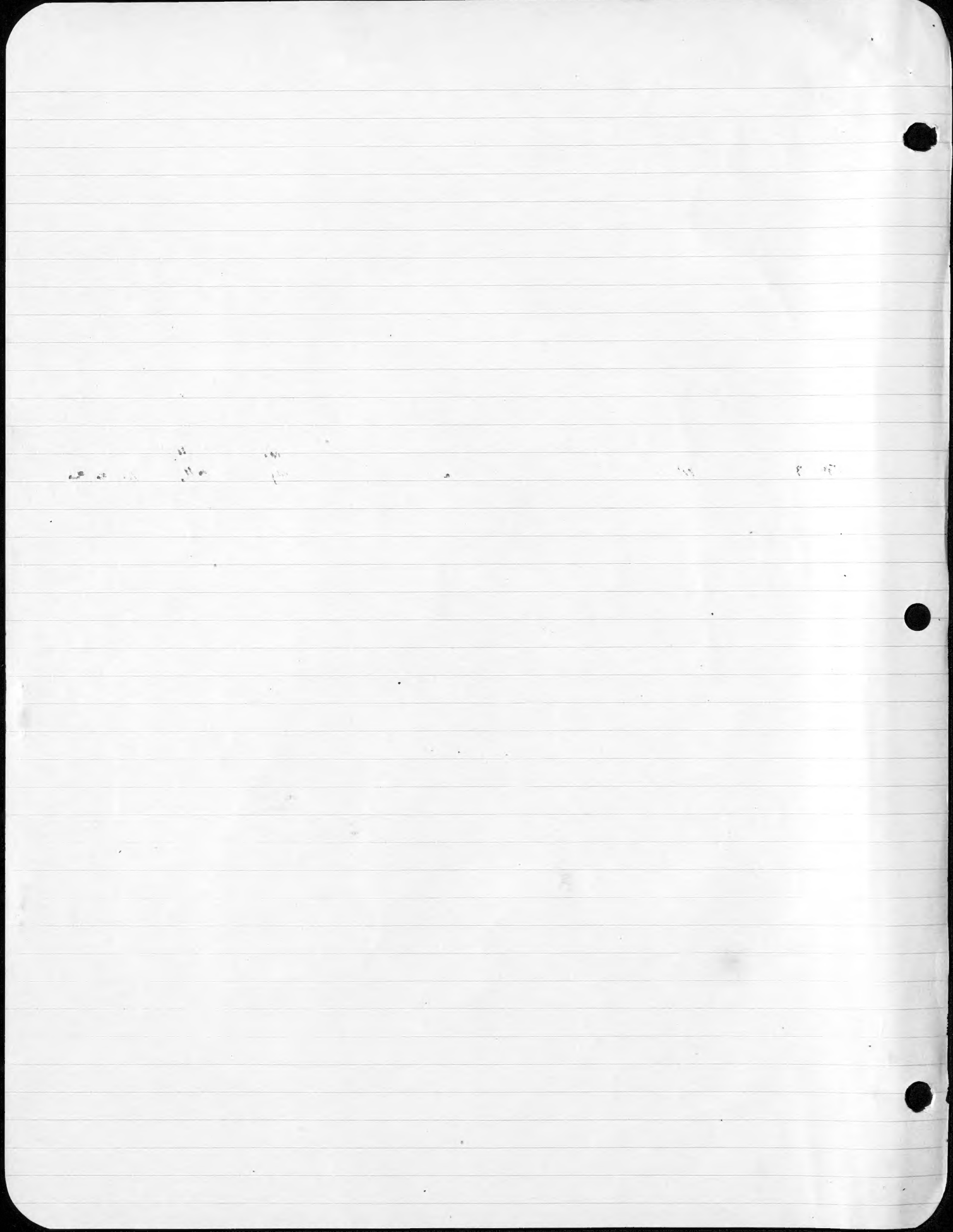
11. *Rub.* Substage 10 m. Fl. unisexual.

12. Substage 8 m. Fls. wh. Fl. unisexual.

Pandanus. ± 30 ft., slender, with long, branched prop roots, P. close to a creek near Summit with tall *Eulalia*? palms.

Eulalia? P. locally on banks of stream. ± 60 ft. (in groups).

7 spp. *Palms* seen near Summit (2 fan-leaved, 1 *Tournefortia*, 1 *Caryota*, 3 *Pinus*)



Primary rain forest - main body

Climbers:

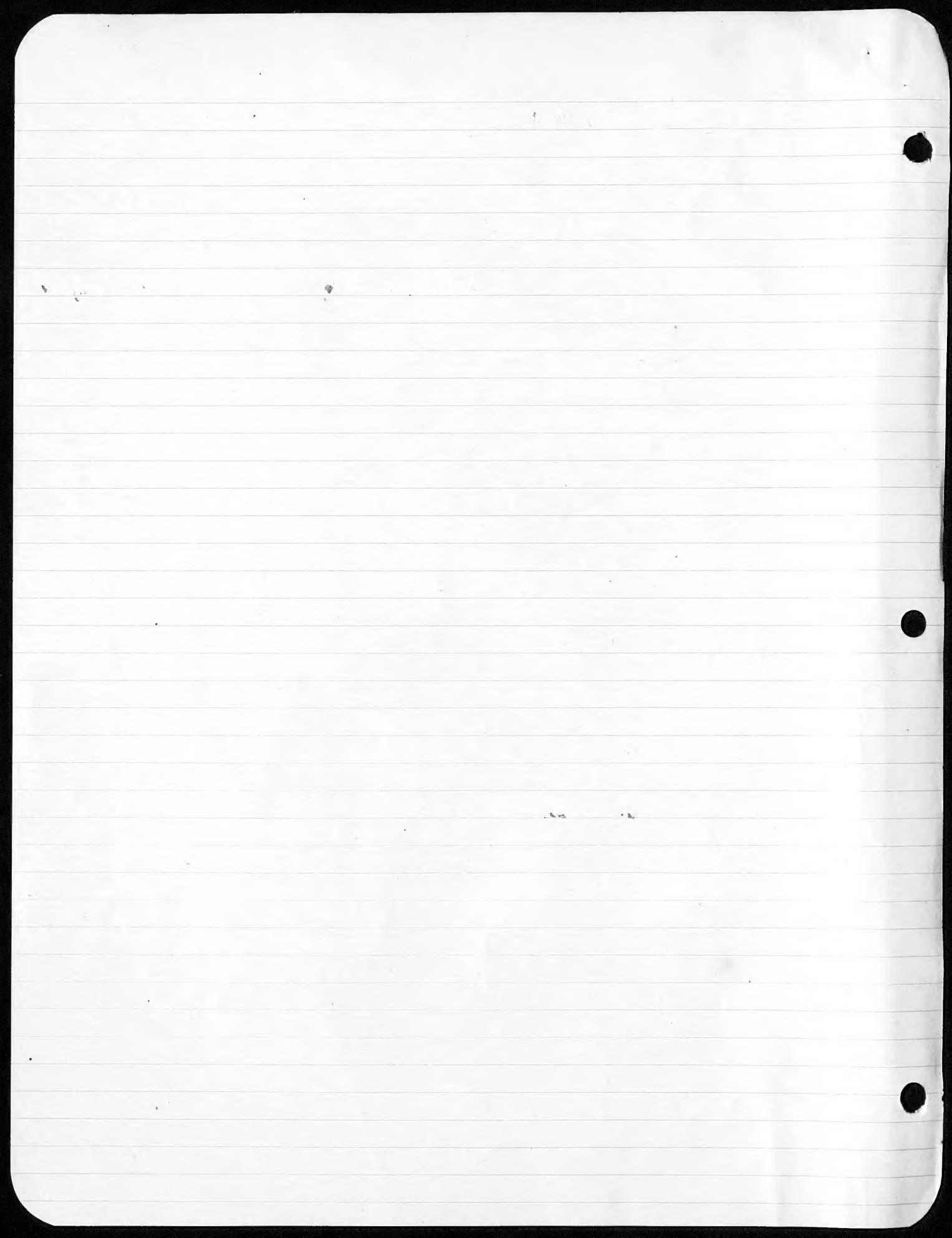
Balanus 17. seen near tower

Epiphytes & Parasites:

18384. *Toranthus*. F. ± 1 m. Fls. red.
 18628. *Toranthus*. On *Formicaria* sp. in forest edge. Small, compact fl.
 40. *Polypod*. F. on trees & rocks. Creeping & root-forming. 60-100 cm. Large shield leaves. Very com. sp.
 18806. *Fungus*. On rotting wood.
 07. *Fungus*. On rotting logs.

Woody undergrowth:

18374. *Crinum*. S. ca. 1 m. monocot.
 94. *Bacopa*. O. 50-60 cm. Globes red fleshy fl.
 98. *Piper*. P. in dryish sp. (also record present) scrambling 2-10 m.
 Fls. whitish. Fr. blk. not eaten by natives. "Wai-a-white"
 18815. *Palm*. C. clump sp. 5-7 m. Fl. buds only. Leaves pinnae
Psychophruma capitata-gasteri



Primary rain forest - main bodyHerbaceous undergrowth

18385. *Lindsaya*. Fr. on rocks (talentia). Up to 25 cm. Proliferous
 86. *Sten?* 1 plant " "
 92. *Man.* 1 sample.
 18634. *Fern.* Ery. on shady moist bank of a stream. 10-15 cm.
 35. *Offens.* Muddy edges of a stream. 50-60 cm. Stem acutely 3-ang. bot.
 46. *Moss.* Growing stones (O).
 18817. *Trantheum* C. floor plant. 25-35 cm. Fr. wh. or pinkish

Fungi

18383. On rotten wood.

11

11

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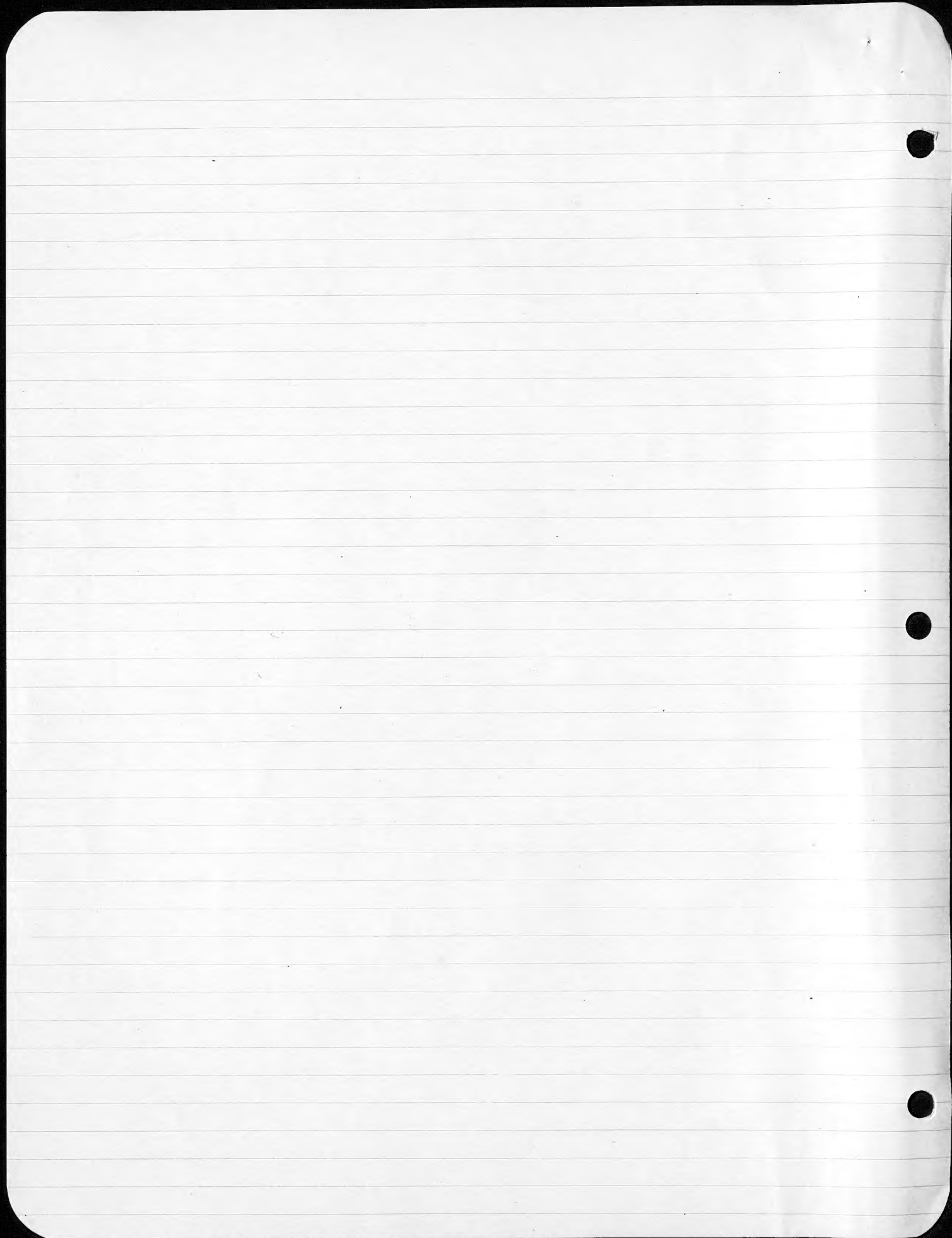
11

11

Lockyeria

Primary rain forest - margins - main body

- 18387. *Cyperus*. C. in a clearing. Climbs up to 1 m.; erect.
- 95. Tree 5 m. Fl. ? Fl. black, fleshy, blandly sweet.
- 96. *Aristolochia* F. slender vine 2-3 m. Fl. yellow & purple. Top fleshy leaves.
- 99. *Uccia*. C. on grassy edges. Tree 6-10 m. x 15-25 cm. Fl. wh. Fl. ?
Bark grey-br., hard, deeply fissured. AMB.
- 18427. *Propia* F. (also in 2nd growth). Shrub 1.5-2 m. Fl. red.
- 29. *Panicum* Gr. in shade. 30-40 cm.
- 30. *Panicum* Shady edges. ca. 70 cm. Panicles drooping.
- 35. *Comp.* C. grassy edges. Shrub 60-80 cm. Fl. yellow.
- 71. *Dianella* F. " " Fl. blue.
- 92. *Rhipogonum*? Grassy edges. Vine. Fl. unisexual.
- 99. *Tommat.* C. " " Ascending. Fl. blue
- 18500. *Tommat.* C. " " Fl. purple-pink. Roots tuberous.
- 2. *Xanthox* O. " " Fl. cream
- 3 *Tab.* 1 plant " " 20 cm. Fl. purple.
- 44. *Solanum* Shrub 2 m. Fl. purple. Fl. red, 7 lobes, ± 15 mm. dia.
- 91. *Bursera* A. in grassy edges. 50-80 cm. Bracts pink.
- 92. *Gynerium* Climbing in long grass of edges. ± 1 m.
- 93. *Opistemon* C. in edges. Procentric & ascending culms ca. 1 m
- 95. *Cyperus* Tufted in shady edges. ca. 40 cm.
- 96. *Boottia* Under shade of marginal trees. ± 80 cm. 1 tree ^{cut} on still _{road.}
- 97. *Sporosa* Grassy edges. Vine 1 m. Fl. wh.
- 18605. *Gram.* Semi-shade of edges. up to 1.5 m.
- 26. *Panicum* Gr. in semi shade. 70-80 cm.
- 30. *Tranthemum* C. in rock crevices. ~~50 cm~~ 15-20 cm. Fl. wh.
- 31. *Carytha* Various hosts on margins.
- 32. *Rhoc.* Large scrambling shrub 4-5 m. Edges dryish R.F. Fl. cream. Fl. unisexual.
- 40. *Polypod.* F. & comp. on rocks & trees. Creeping & nest-forming. 50-100 cm. (large shield leaves).
- 41. *Dioscorea* Vine 2-3 m. Tubers eaten by natives.
- 43. *Mon.* On dry laterite rocks.
- 44. *Mon.* " " " Gr. sp. like on Florida cabbage palms.
- 18814 *Zea* O. slender tree 5-7 m. Fl. unisexual.
- 13. *Enclavia* F. shrub 2-3 m. Fl. cream. Fl. red.

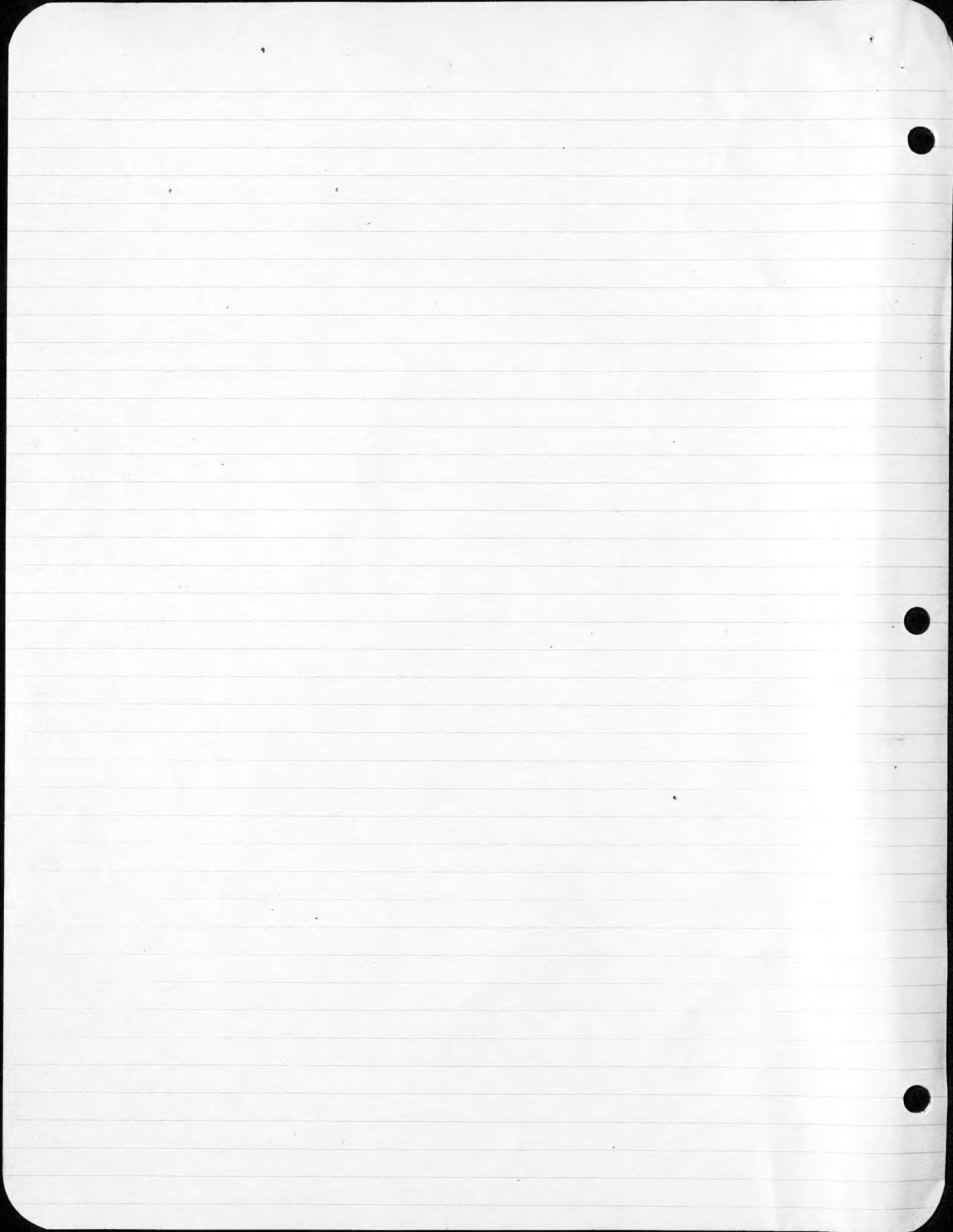


Secondary rain forest:Trees:

18400. *Alphitonia* A. 8-12 m. x up to 30 cm. Fls. yr.-wh. Fr. ? Leaves ^{below} grey
 1. *Randia* C. 5-7 m. Fls. ? Fr. large, woody. Fls. wh., fragrant.
 = 18647. Tree or shrub ~~up~~ up to 5 m.

Other plants:

18397. *Mimosa* Vine 1 m. Soft red fls. in green bracts.
 98. *Ziziphus* P. scrambling shrub 2-10 m. Fls. wh. Fr. blk, ^{not eaten} ~~not eaten~~ by natives
 "Mail-a-white". Also in dryish r.f.
 18427. *Proyria* F. (also on Rf. margins). Shrub 1.5-2 m. Fr. red.
 18813. *Evocalamus* F. shrub 2-3 m. Fls. cream. Fr. red.

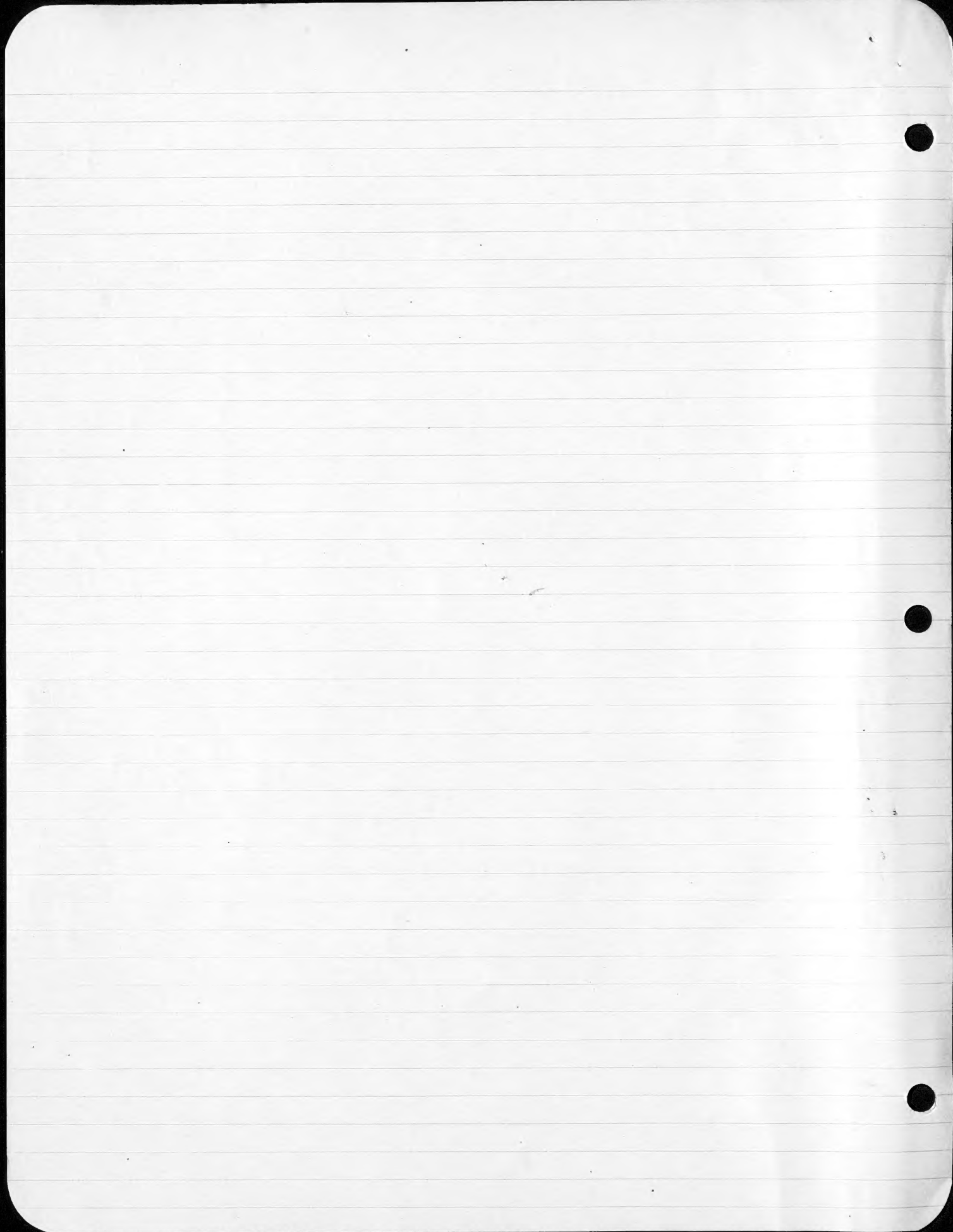


Rain forest "islands". Scattered in savanna forest.

Trees:

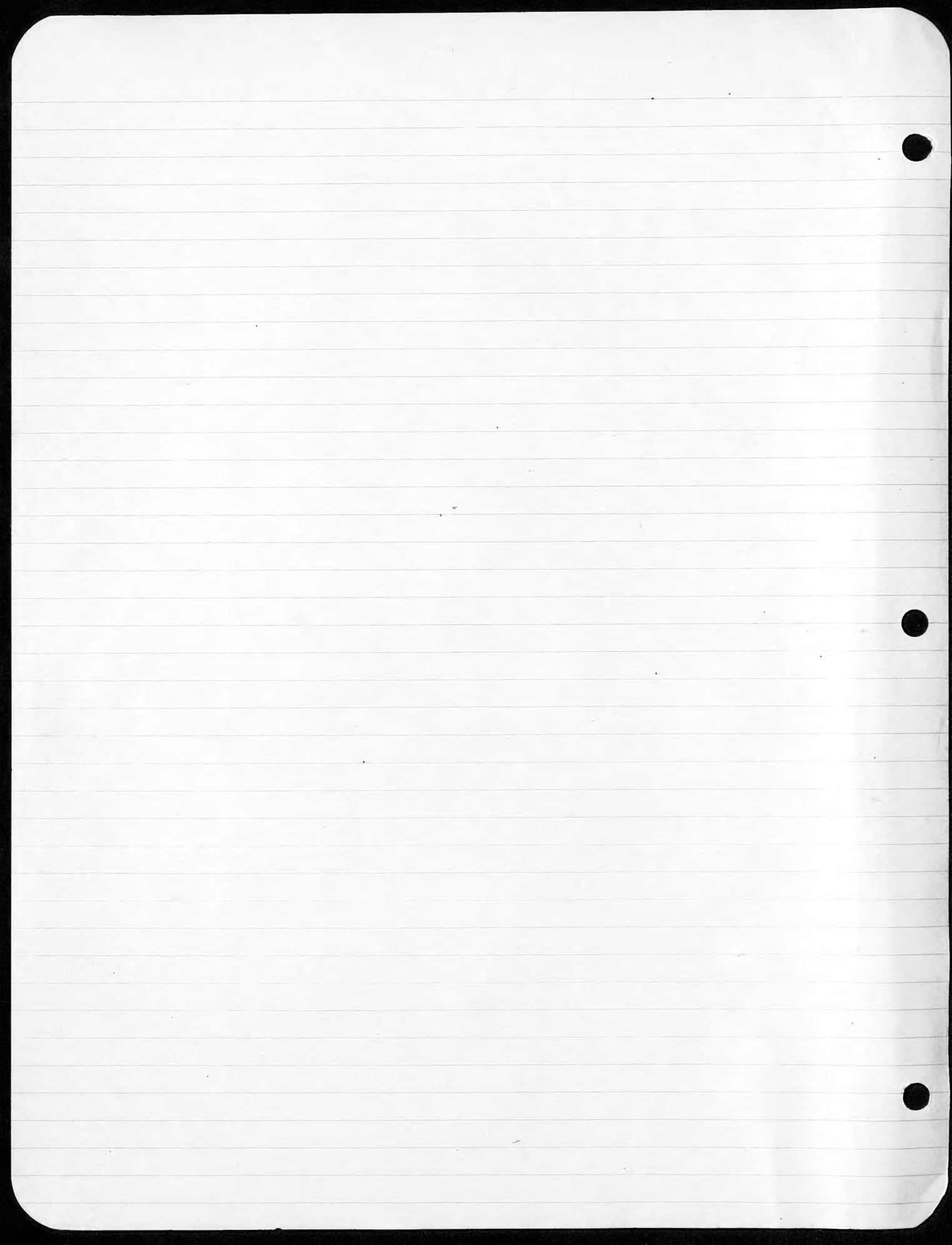
18436. *Fernandina*. In small patches forest on pebbly ridges. 12 m. x 30 cm. Fl. buds. Fl. 6/12, eaten by weaver. Leaves soft, very convex.

Undergrowth:



Rain forest gallery woods. On banks of streams in
savanna-forest

18410. *Sodonara*. F. edges of woods. Tree 6-8 m. x 10-12 cm. Fls. very young. ^{Fls.?}
Bark hard fibrous firm.
411. *Lindsaya*. P. on outer edges. 30 cm.
412. *Aral.* O. tree 3-6 m. Fls. pale pink. Fl. young. Simple or few branched.
413. *Myrt.* O. tree 10 m. x 25 cm. By fl. only. Smooth eucalyptus-like bark.
(A. in open bed of stream - Taradaya Rk.).
416. *Lab.* Edges of woods. Shrub 30 cm. Fls. wh.
18537. *Rustia*. Few large-clumps ca. 1.5 m. in sandy bank of Taradaya Rk.
Stems stiff; bluish-green.
38. *Wormia alata*. P. tree 10-20 m. x up to 50 cm. Fls. yellow. (also S.F.).
39. *Jacksonia*. O. on outer edges. Tree 3-4 m.
41. *Moss*. On bank of *Wormia alata*.
43. *Gram.* P. on grassy banks shaded by forest & inundated by floods. In
moist clumps 60-80 cm
45. *Toranthus*. On a tree. Glaucescous red, purple & yellow fls.
46. *Tam.* Slender tree 10 m. Fls. greenish. Fl. young.
47. *Rub.* C. in edges. (also under shady trees in S.F.). Shrub 1.5-3 m. Fl.
Dark, fleshy, depressed-globose. ca. 7 mm. dia.
48. *Cyclophorus*. F. epiphyte. Fleshy leaves crowded in pale green clumps.
49. *Myrsin.* O. slender tree 10-12 m. Fl. buds only.



Black leather scrubs:

body trunk.

18505. *Gram.* *Gram. Sc. through scrub. 60 cm. Lvs few slender erect culms*
06. *Typ.* C. " " 60-100 cm. *Forming stiff clumps*
7. *Pectin* Chief plant of a very open ground cover. Stems very many drooping stems 260 cm.
8. *Typ.* Sc. 30-60 cm. *Trunk usually sol. stems.*
9. *Thyptomena oligantha.* Chief D. Tree 5-10 m. x up to 40 cm. Fls. wh. Stem usually short & branched near ground. Bark dk. grey, fibrous, fissured. OTUMDUM
10. *Merisip.* Climbing 2 m. Fls. ? Fr: red, fleshy.
11. *Dendrobium* C. epiphyte on branches 1-2 m. from ground. 20-40 cm. Fls. waxy purplish-br.
12. *Tilia.* P. & Ch. shrub. 1-2 m. Fls. ^{rose} yellow, delicate. *Burkoping* a few long, weak branches. APURAMAMU
13. *Myri.* One tree seen 8 m x 25 cm. *Stem. Drooping branches.* Bark br-grey, thin, fibrous, fissured.
14. *Epacrid.* {V.A. tree or shrub 2-4 m. Fls. wh. Much branched, sharply.
or depressed, wh. translucent
15. *Epacrid.* A. shrub 2-3 m. Fls. wh. Abundantly but rather openly branched
16. *Leptospermum* Chief D. next to 18505. Tree 8-10 m x 20-30 cm. ^{fls only} Much branched rounded crown. Bark gr-br. fissured bark.
- Gabriella* #
18. C. herb 3-5 cm. *Mossy bare sandy soil. Fls. wh.*
30. *Moss.* On moist sandy soil.
31. *Moss.* *Grey-green cushions on moist sandy soil.*
- Moysa* P. climber. = fl. of Newcastle Bay.
- Diclidia* spp. S. *Rafflesiana* & 1 or more small spp. V.A.
68. *Mitella* aff. *gynophyloca.* A D. in small patches down *Laradaya* Tk. Tree 10-12 m x 25-35 cm. Fls. red. *Some crown upright branches. Bark dark grey, rough, fissured.*
71. *Jacksonia* A. in small patches down *Laradaya*. Tree or shrub 2-4 m. ^{pink.} Fls.
- Myrsinthes* C. scattered in openings.

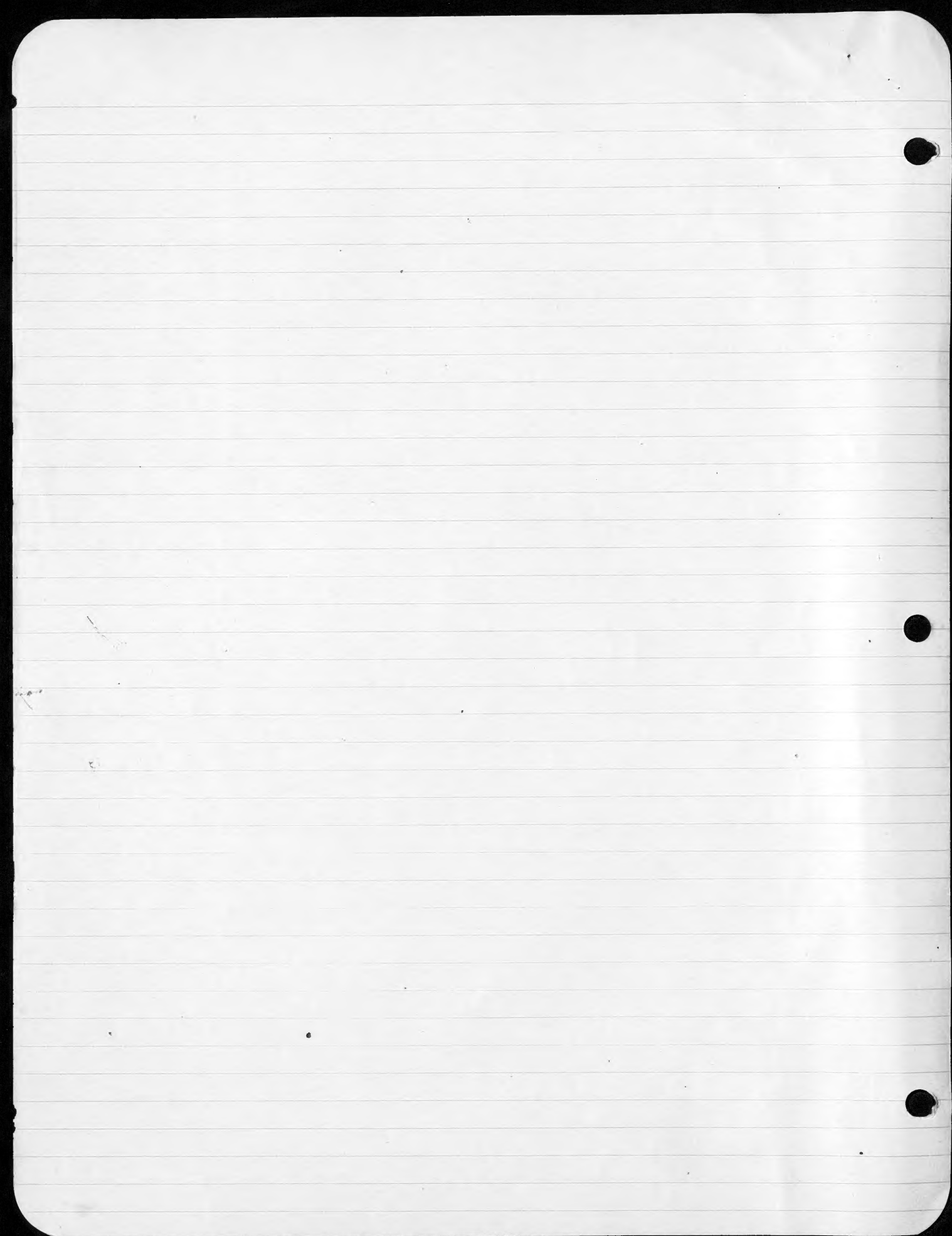
For note on *Encyrtus* sp. see part of Garden Review
see Journal p. 135.

Savanna forest. Occupying most of the area. Various types, excluding the communities of wet lateral flats.

Trees:

18365. ? S. in floodwood s.f. on reddish loam. \pm 6m. Drooping habit. Fls. yr yellow. Ft. eaten by cattle.
66. *Banksia integrifolia*. O. to 6m.
99. *Acacia*. C. grassy ridges R.F. 6-10m. X 15-25cm. Fls. wh. Fds. ? Bark grey br., hard, deeply fissured. AMBI.
18400. *Alphitonia*. Sc. 8-12m. x up to 30cm. Also secondary R.F.
82. *Plaphancarya*. O. in S.F. of ridges (a R.F. th.).
88. *Mistania longivalvis*. C. throughout on sandy soil. Up to 12m. x 40cm. Fls. yellow, soon-scattered. Thin pale br. bark shedding in thin corky scales.
18413. *Mypa*. A. in open rocky bed of *Conocarpus*. Smooth eucalyptus-like bark. ^{Ft.}
18538. *Wormia ciliata*. S. (P. in gully R.F.) 10-20m. x up to 50cm. Fls. yellow.
42. *Acacia* AMBI. P. on sandy soil. Up to 12m x 25cm. Fls. cream. Ft. ?
51. *Banya floribunda*? C. in SE adjacent to R.F. Up to 20m. x 50cm. "Gum tree" or ARATANO. Gum a resin used for cementing spear heads.
52. *Pandanus* sp. C. in places forming small groves on sandy soil. 6-8m. 190-10.
66. *Bauhinia* Few trees grow on a dry sandy slope (20m.). 6-10m x up to 20cm.
18607. *Mel. leuc. var.* F. on acid sandy flats. 6-8m. Fls. very pale green. Branches crooked. Whitish papery bark.
11. *Mistania* C. on sandy soil. Up to 20m. x 50cm. Ft. only. Short thick trunk. Brown spreading. Bark br., fibrous, flaky.
12. *Eucalyptus* C. on greyish sandy soil. Up to 15m. x 40cm. Ft. buds only. Smooth grey or brownish bark. Branches often pendulous. "Poplar gum"
13. *Mel. leuc. var.* A. ^{tree} *thar.* large tree of stream banks & waterholes. Up to 25m x 30cm. Fls. cream; heavy burnt sugar odor. Branches drooping. Bark papery, greyish to brownish-wh.
22. *Erythrophloeum*. F. in floodwood SF on a hard pebbly volcanic ridge. 7-8m. Sterile
- Parinarium nanda*. C. & growing in fairly large size.
- Bloodwood sp. The most common eucalypt.
- Mistania macrodon* P. on sandy flats: big trees.
- Emilia striata* C. locally. In shrubs.
- Emilia* O. large leaves.
- Erythrina*. Pale corky bark. Slender fl. 1-12m.
- Banya australis* F. smaller trees.
- Monter Bay Ash P. especially about ridges R.F.
- Xanthostemma crenulatum* (#19140) "Tree north of Jordan River"

Same but not collected.



Savanna forest

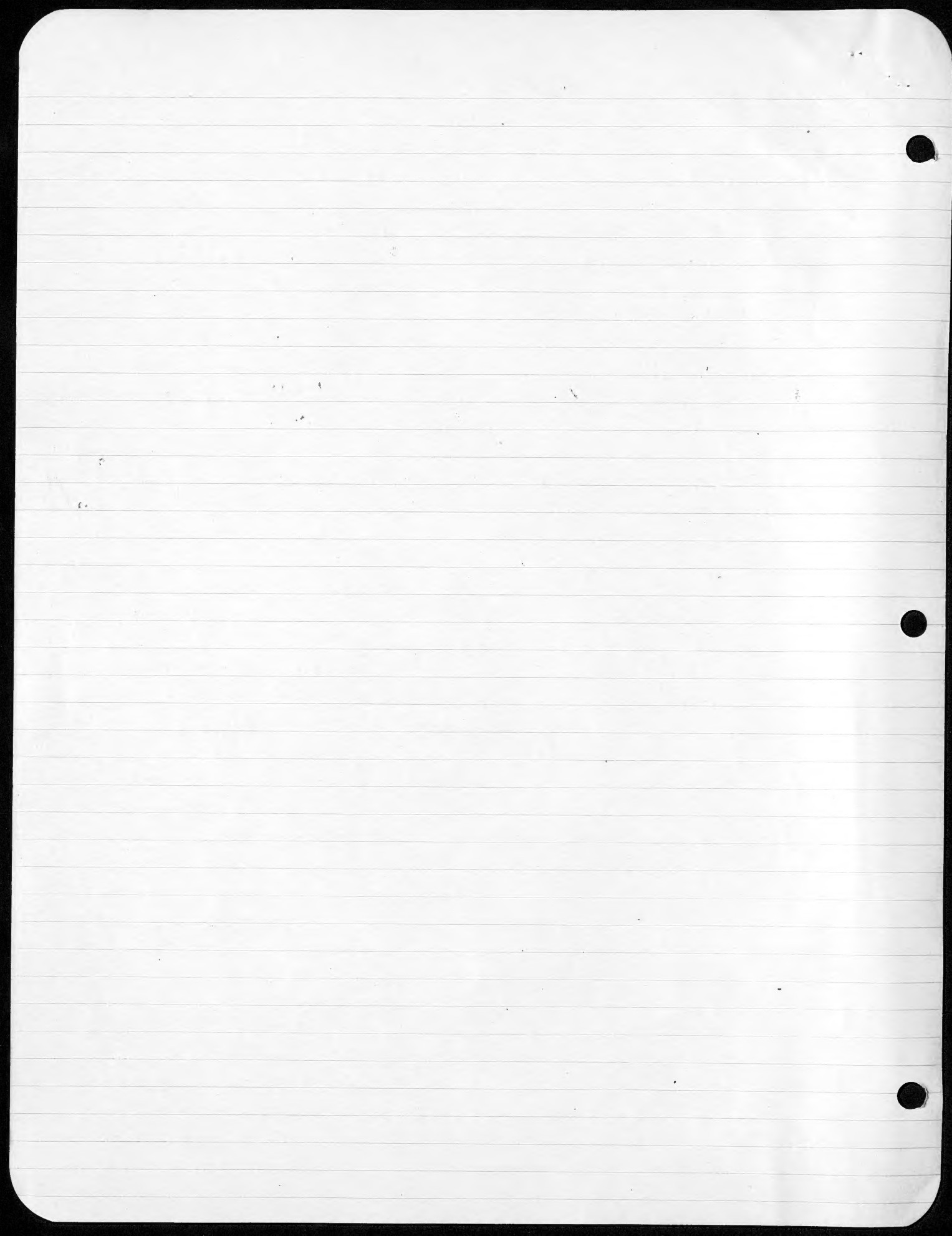
Shrubs

18403. *Euphorb.* C. on sandy creek flats. 50-80cm. Stem mat from thick woolly stalks.
 85. *Euph.* C. ca. 1.5 m.
 18501. *Dibiscus* 1 plant on grassy bank of a stream. 1 m. Fls. not seen
 47. *Rub.* F. under shrubby trees (also in P. & G. gallery woods). 1.5-2 m.
 Fl. black, fleshy, depressed-globose. \pm 7 mm dia.

Wepenthes

Grasses

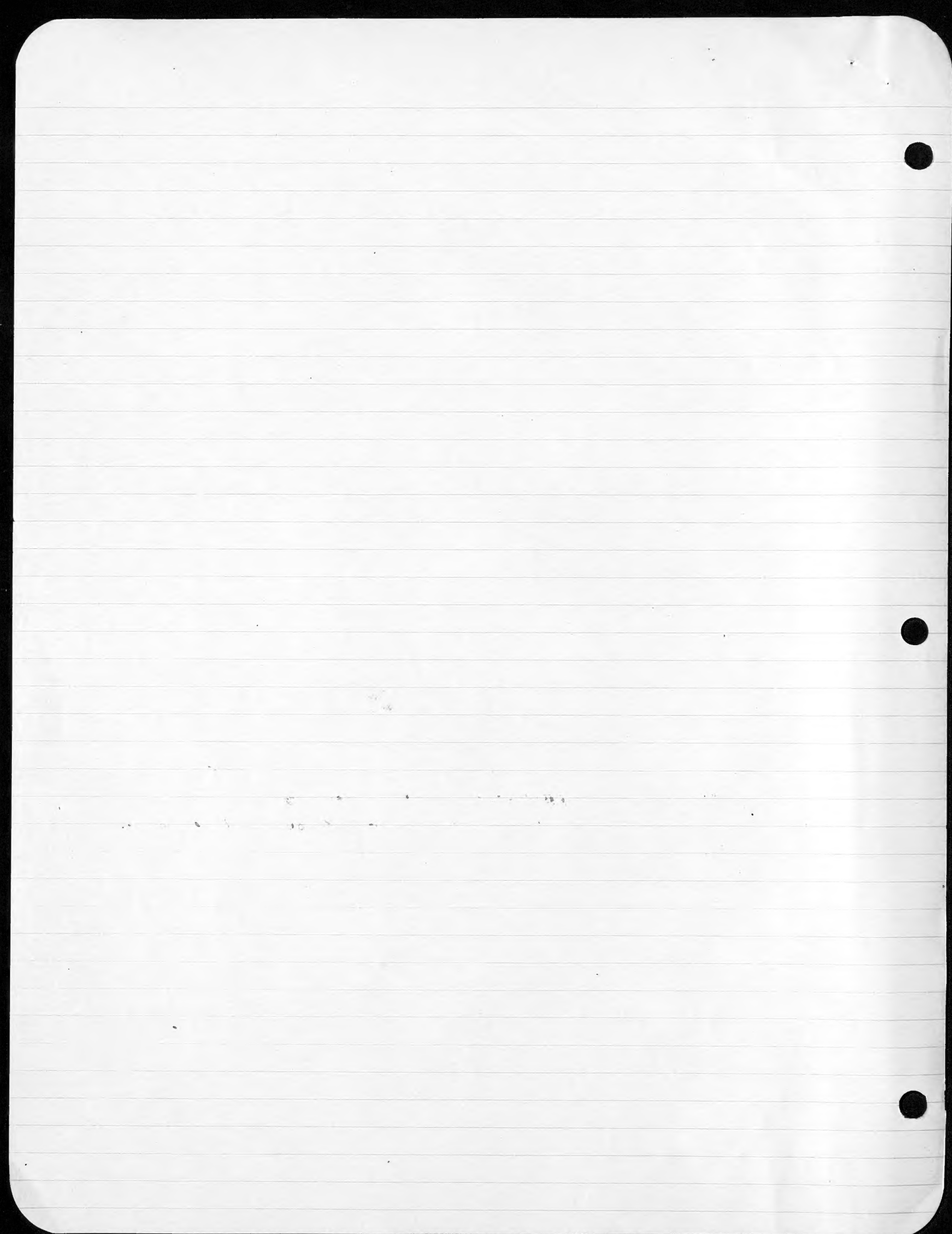
18367. *Helinopsis* F. on reddish laterite soil. 80-100 cm.
 68. *Pennisetum?* 18 char. sp. on reddish laterite soil. Few erect culms \pm 1.5 m.
 69. Grassy in openings between taller sp. \pm 80 cm.
 71. *Helinop. insignis* 18 char. sp. on reddish laterite soils. Clumps of few erect culms up to 2 m.
 73 S. red soil ridges. ca. 1.5 m.
 75. O. on hard red laterite ground. 40-60 cm.
 78. Grassy on pebbly laterite soil. 40-70 cm.
 93. *Helinopsis?* Sc. in old clearing in r.f. 70-90 cm. Very sunny spikelets (conspicuous)
 18405. O. sandy trunks patches on creek flats.
 09. O. sandy river fringes. Small tufts \pm 80 cm.
 14. Grassy locally on trunks sandy patches. Small tuft 50-60 cm.
 19. *Aristida* Bowering trunks and patches on creek flats. 80-90 cm.
 20. *Eragrostis* A. with 18419. Few erect culms. Spikelets reddish. 80-90 cm.
 22. *Tragopogon* P. " " 30 cm. Narrow tufts sprawling culms up to ca. 1.5 m.
 42. *Sacciolepis* S. amongst tall grasses. tuft to 50 cm.
 62. *Eulalia?* Grassy locally on open sandy patches on ridges. 30-60 cm. Spikelets
 glistening dark brown.
 65. *Themeda* Sc. on moist sandy soil. Clumps few stiff erect culms ca. 1.20 m.
 66. *Eragrostis* Sandy soil
 67. C. moist sandy soil. 100-130 cm. Tufts of few erect culms
 75. Low sandy soil.
 76. *Sorghum* F. on banks of streams. ca. 1.5 m. Tufts 2-3 erect culms.
 77. *Axonopus* S. sandy soils. 1-1.5 m. (used to poison bandicoots!).
 78. Sc. amongst tall coarse fl. C. 1 m. Tufts round drooping culms
 79. Floodbanks. 80 cm. Tufts many upright wing culms.
 80. O. " seasonal stream. 80 cm. Tufts round erect stiff culms
 81. *Aristida* Few tufts " " 1 m.



Savanna forest

Grasses. cont.

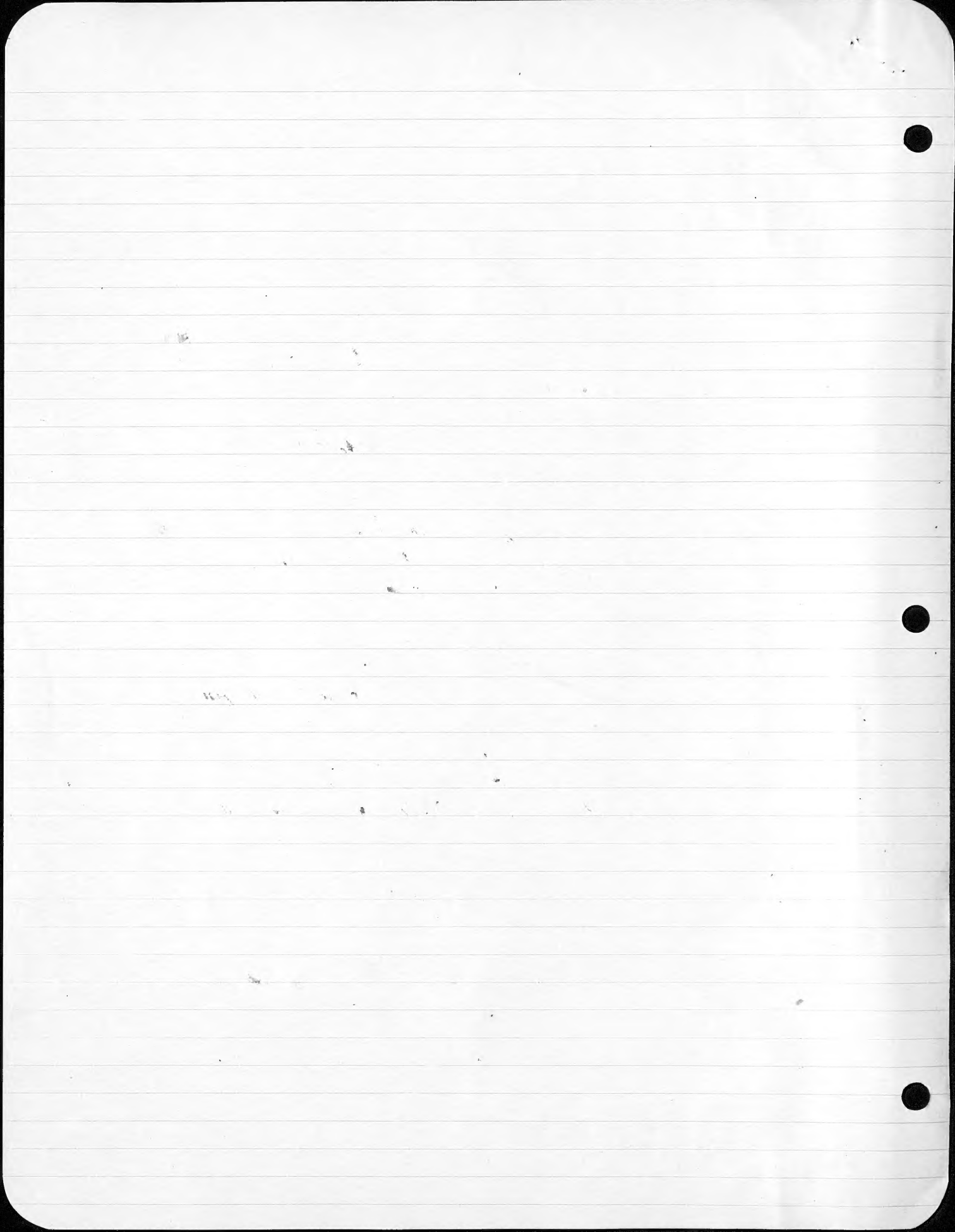
18482. Sc. on floodbanks. Tufts many drooping wing culms 30-70 cm.
 83. *Sacciolepis*. Wet sandy floodbanks of a seasonal stream. Panicle fleshy.
 90. Sc. in a damp watercourse. \pm 2 m. Culms nod; usually solitary
 91. *Themeda* Sc. uncommon. up to 1.5 m.
 94. Sc. in a moist watercourse. 70-90 cm. Tufts few erect stiff culms
 95. 1 large clump on a termite mound.
 96. *Sorghum* S. on sandy soil. up to 1.5 m.
 97. *Pennisetum*? C. in moist watercourses. up to 2 m. Mostly past fruiting.
 98. Sc. " " " 70-90 cm.
 18554. Erag. on hard sandy ground.
 90. *Andropogon* O. in moist watercourse. Tufts of few erect culms 1-1.5 m.
 98. A. on pebbly laterite ridges. 40-80 cm. Erect culms 1 or several in small tufts
 99. Local " " " 30-50 cm. Spikes silvery
 18614. *Imperata* Sc. tufts (Briza-like) on moist sandy floodbanks. 60-80 cm.
 18. Sandy floodbanks. 80 cm.
 19. Wet sandy floodbanks. ca. 60 cm. Spikes purplish
 23 C. on a hard pebbly bloodwood ridge. 20-30 cm.
 37. Erag. locally on sandy lean. 60-80 cm. Panicle drooping. Spikes reddish.
 42. Erag., close to R.F. 30-50 cm.



Savanna forest

Ridges:

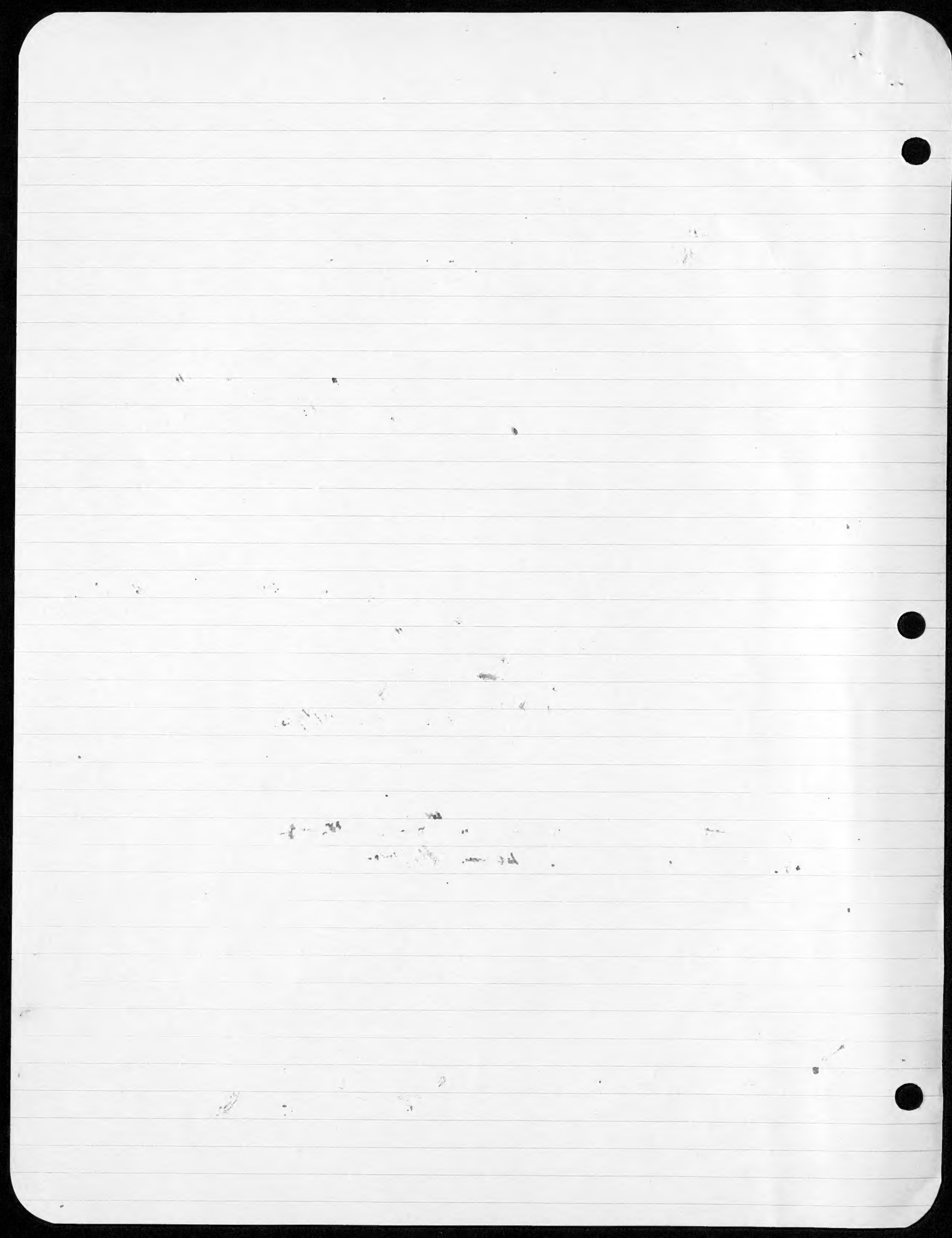
18370. *Cyperus* S. on reddish lateritic soils. 50-70 cm. Erect. 50+ stems
72. *Cyperus* S. 60-100 cm.
18206. *Rhynchospora* O. sandy creek fringes. 30-50 cm.
71. C. treeless sand patches on creek flats. Blue-gr. Stems several
moist stems 70-100 cm. Rhizome fragrant:
40. Roadside. 10-15 cm. Blue-green.
43. C. locally on moist ground. 10 ~~to~~ 45 cm.
45. One plant on moist sandy soil. 30 cm.
46. *Cyperus* Moist sandy soil. Blue-gr. 10-25 cm.
53. S. moist sandy soil. 30-40 cm.
54. S. amongst small annual grasses on hard pebbly ridges. ca. 20 cm.
58. *Cyperus* O. moist sandy soil. 30-50 cm.
59. *Rhynchospora* C. locally on hard lateritic ridges. 10-40 cm.
60. *Scleria* S. among small annual grasses on hard pebbly ridges. up to 40 cm.
61. *Scleria* S. in S.F.
72. *Scleria* O. clumps on moist banks stream. ca. 1 m.
73. *Cyperus* Sc. grassy flood banks. 30-100 cm.
84. *Cyperus* Erg. in wet sandy bottom of a seasonal stream. 20-30 cm. Fleisty.
18540. ~~X~~ C. locally on creek banks inundated by high floods. Very many
wing stems in clumps ± 60 cm high.
18606. *Rhynchospora* C. on open sandy creek banks. 30-40 cm.
8. *Cyperus* Few *Juncus*-like tufts 40-70 cm. in sandy bed of a stream.
33. *Cyperus* Few tufts in a sandy watercourse. up to 1.5 m.
36. C. in a sandy watercourse. 60-80 cm. ± glaucous.



Savanna forest

Herbs:

18376. Fern. C. locally under cover tall grasses on red lateritic soil. 30-40 cm.
77. F. under dense " " " 15-25 cm. Wh. fls.
79. Leg. F. amongst tall grasses. Prostrat. Fls. purple. Inflated (flk. fls.)
80. Rub. C. locally on pebbly lateritic soil. 30-50 cm. Comp. pale blue or lavender fls.
81. Leg. (Eriolobos?) S. red lateritic soil. 25-45 cm. Flowers pale hidden in large leaf.
82. Eriolobos C. " " of ridges. 30-40 cm. Fls. yellow. small
18404. Lab. C. locally on sandy creek flats. Ascending 60-80 cm. Fls. reddish-purple.
07. Turnera? C. on sandy creek flats. Woody. 50-70 cm. Fls. yellow. Woody stems from hard woody stock.
17. Comp. Bank of a stream. Perennial herb to 80 cm. Fls. yellow.
18. Commel. S. on sandy creek flats. Herb. 10-25 cm. Tang. yellow fls.
23. Zizoc. S. " " " ^{ca. 15 cm} Fls. white.
24. Biophytum O. " " " 3-15 cm. Fls. reddish
25. Phyllanthus S. " " " 40-80 cm.
28. Borag. S. sandy soil. 15-20 cm. Fls. wh.
31. Tricoryne S. sandy creek flats. Fls. yellow.
32. Comp. F. " " " 20-30 cm. Fls. yellow.
33. Pinella S. " " " Fls. wh.
34. Leg. O. on lateritic ridges. Trailing branches ca. 1 m. Fls. wh.
35. Comp. C. grassy ridges of R.F. 60-80 cm. Fls. yellow.
37. Legum. S. on pebbly lateritic ridges. Perennial 40-50 cm. Fls. purple.
39. Legum. S. lateritic ridges. Ascending. Fls. orange. (small plant)
41. S. among small annual grasses on hard pebbly ridges. 20-30 cm. Fls. yellow.
44. Legum. S. damp sandy soil. 10-20 cm. Fls. yellow.
47. S. among small annual grasses on hard pebbly ridges. 25-70 cm. Fls. yellow.
48. Legum. S. moist sandy soil. 8-20 cm. Fls. yellow.
49. Scroph. C. locally on moist sandy soil. 10-20 cm. Fls. violet.
50. Gooden. 6-12 cm.
51. Polygal. Moist sandy soil. 10 cm. Fls. blue.
52. Buchnera S. with small annual grasses on hard pebbly ridges. Fls. wh.
55. Stachytarix S. " " " " " up to 70 cm. Fls. green
56. Styliadum? Local on moist sandy soil. ca. 10 cm. Fls. wh. & purple.
57. Legum. S. " " " " " ascending. Fls. blue.
63. Legum. 1 plant on hard lateritic soil. Fls. orange-yellow.
64. Legum. C. locally throughout, on wet soil as well as dry. 40-60 cm. Wh. fls. Many branches removed from woody stock.
68. Legum. Amongst small annual grasses on hard lateritic ridges. 20-30 cm. Fls. yellow.



Savanna forest

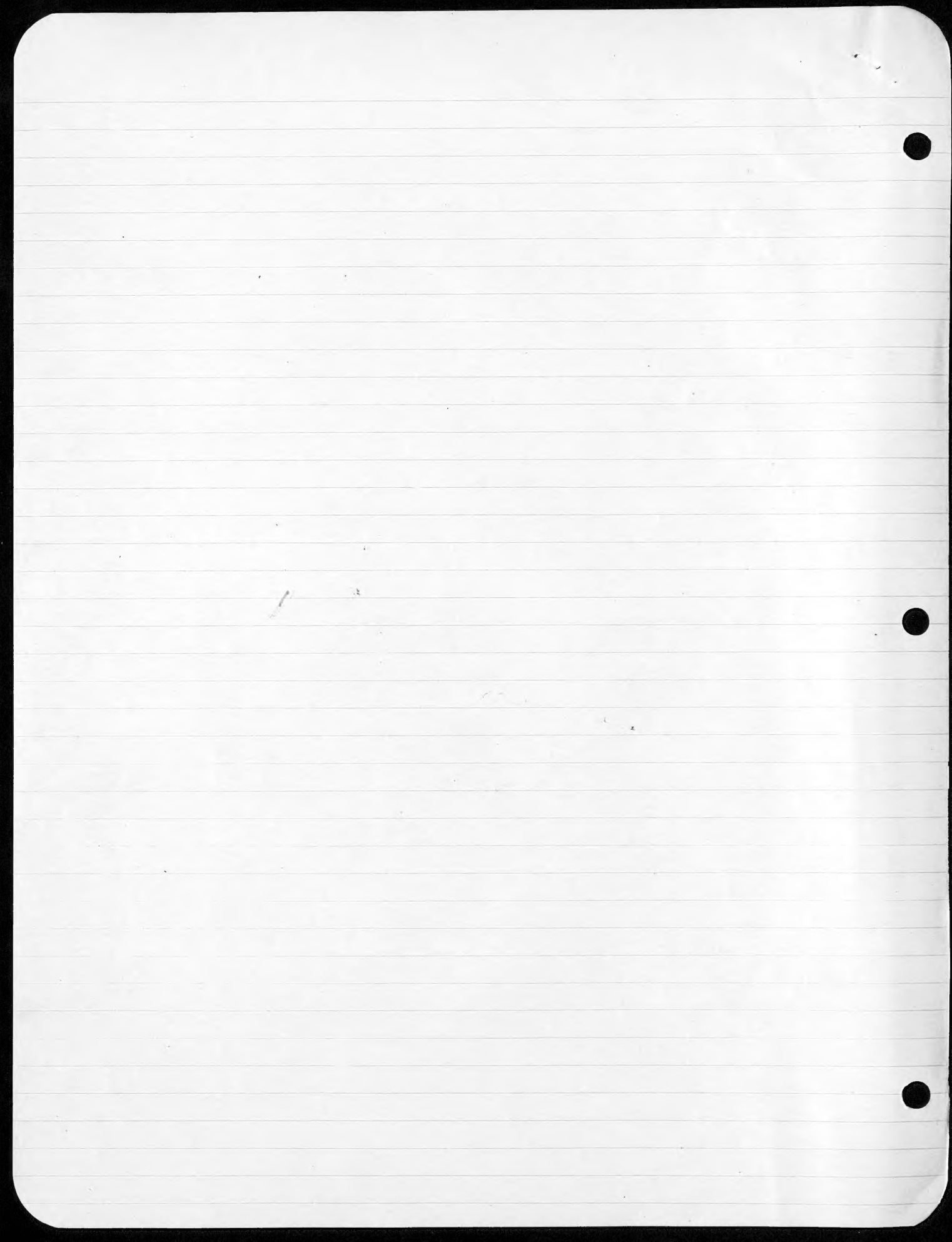
Herbs. cont.

18469. *Xerolobos*. Fringing edges of R.F. Fls. wh.
 70. *Lil.* F. " " " " ca. 15 cm. Fls. wh.
 71. *Dianella*. F. " " " " Fls. blue.
 86. *Utricularia* Local. wet grassy bank of a stream. 20-25 cm. Fls. purple.
 87. *Legum.* S. Fls. yellow
 88. *Sesuvia* Terrestrial plant on wet grassy bank of a stream. Fls. pink
 89. *Polygon.* " " " " " 10-15 cm. Fls. purple
 93. *Trichomanes* S. banks of a stream. 20-30 cm. Fls. yellow.
 18550. *Tub.* S. 15-60 cm. Fls. wh. *Aromatis.*
 53. *Ipomoea*. Twining on grass. Fls. wh.
 63. S. on thick grassed sandy patches. 15 cm. Fls. wh.
 64. S. " " " " 6-15 cm. Fls. purpleish-white.
 65. S. " " " " 10-25 cm. Fls. cream white, fr. without.
 74. *Legum.* C. " " " " Fls. purple.
 91. *Curcuma* A. in long grass near R.F. 50-80 cm. Past flowering. Bracts pink.
 18600. *Teria mimosoides* S. on well drained soils. Up to 80 cm. Fls. yellow
 01. *Vigna* S. in long grass. Under 1 m. (vine). Brassy purple fls.
 02. *Legum.* P. but generally sterile. ± 30 cm. Fls. purpleish-red.
 03. *Burchnera* Assoc. with annual grasses on pebbly ridges. 15-35 cm. Fls. wh.
 04. *Thysanotus* S. on pebbly ridges. Fls. purple.
 09. *Burchnera* S. on open sandy creek flats. 50-70 cm. Fls. wh.
 20. *Brenonia* Frag. locally in broodwood SF on a hard laterite ridge. Fls. blue.
 21. S. " " " " 8-25 cm. Fls. pink
 27. *Tacca* S. & unc. 40-50 cm. Fls. only.
 29. *Burchnera* Sc. 40 cm. Fls. wh.
 30. *Burchnera* S. & local. Fls. wh.
 39. *Comp.* F. 50-100 cm. Fls. purple.

Above on sandstone
 on a Cape York
 Road. May 1.

Epiphytes & Parasites

18532. *Viscum* On *Eucalyptus* sp. Fl. greenish-wh. ± 4 mm. diam.
 40. *Polypod.* F. on trees & rocks near R.F. 60-100 cm. (Shield fronds).
 18645. *Moss.* A. in grass patches on trees near R.F.



Savanna forest of wet-land flats

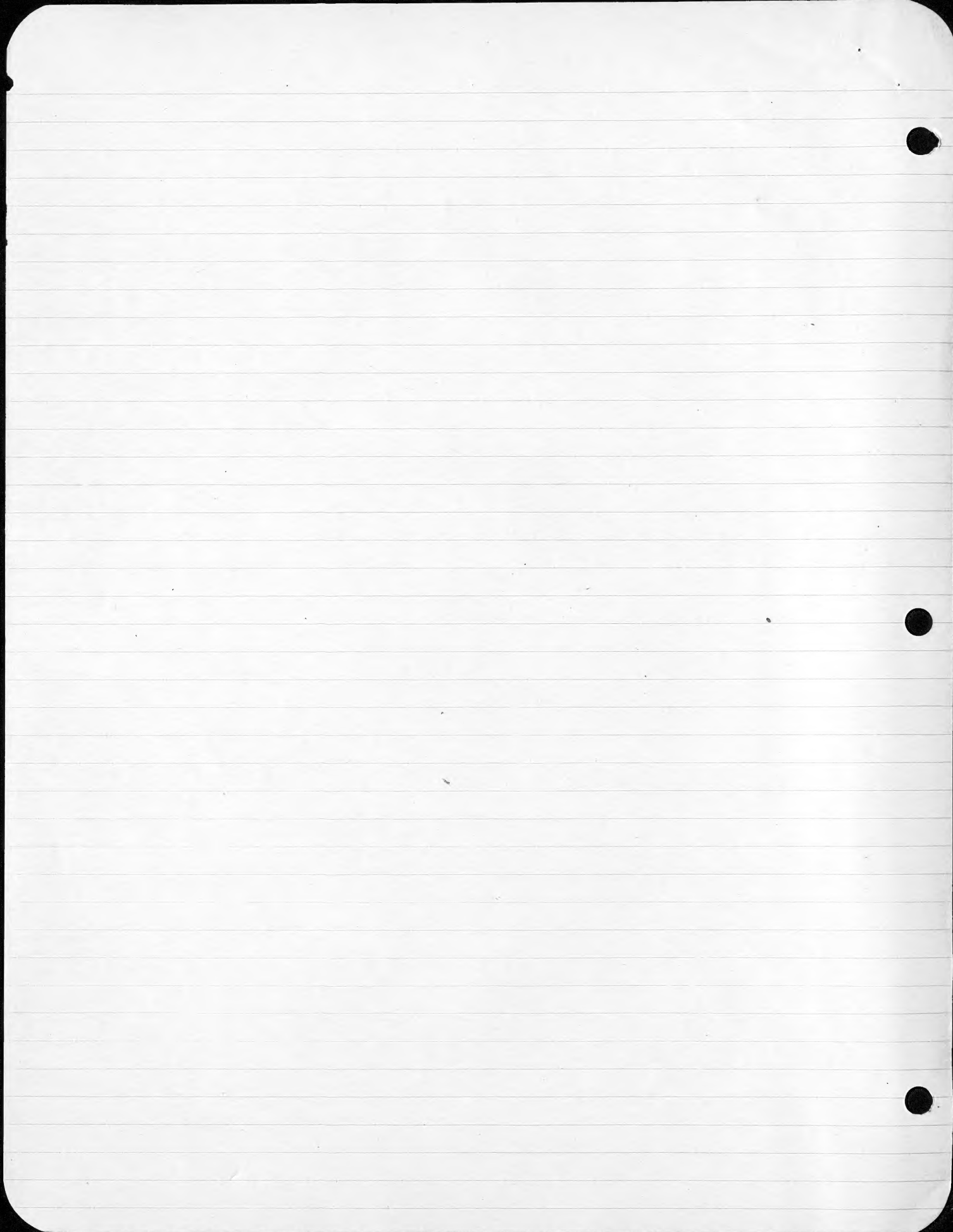
Trees:

18351. *Mel. symphyocarpa*. F. 6-10 m. x up to 25 cm. Yellow-orange; branches drooping.
 66. *Banksia integrifolia*. F. up to ± 6 m. Very pale yellow fls.
 18529. *M. leuc.* C. 7-10 m. Fls. gr.-wh. Bark of stem & main branches papery, other bark smooth, brownish.
 76. *M. leuc. var.* O. with other forms. 5-6 m. Fls. red, very strong. Fine stiff crooked branches. Whitish papery bark.
 77. *Boccia*. O. with *Melaleuca*, on very sandy flats. 10 m. Fls. yellow. P. ?
Phyllodes ± glaucous. Petioles brown.
 18818. *Smilax chrysocladron*. C. on moist sandy flats, etc. Stems tree to 8 m. Fls. golden yellow.
 Just beginning to flower in mid-May.

Other plants:

18349. *Pin. cristata*. C. 40-50 cm.
 352. *Rostia*. A. up to 80 cm. Drooping habit
 354. *Xerola*. 30-40 cm. Leaves used for baskets.
 55. *Xyris*. Sc. 70-90 cm. Yellow, concave fls.
 57. *Scleria*. Unc. 35 cm. Erect. Nuts pale br.
 58. *Scleria*. A. 40 cm. Drooping habit. Nuts wh.
 59. *Cyp.* C. 50 cm. Plant blue-gr., weak & drooping
 60. *Cyp.* A & Inf. 20-25 cm.
 61. *Commel.* C. 20-30 cm. Pale purple fls.
 62. *Cyp.* O. Weak, sprawling.
 63. *Cyp.* A. ~~Sc.~~ 40 cm. Weak, sprawling
 64. *Gram.* A. Upright small clumps ± 1 m.
 18517. *Utricularia* Sc. in the ground cover of grasses & sedges. 3-3.5 m. Fls. wh., minute.
 19. *Utricularia* ~~C. Sc.~~ Sc. 3-6 cm. Fls. wh.
 20. *Utricularia*. Sc. or grouped. 12-20 cm. Fls. wh.
 21. C. 4-7 cm. Herb. Fls. salmon pink without, ~~pink~~ ^{wh.} within.
 22. *Utricularia* Rare. 10-15 cm. Fls. yellow within, red without.
 23. *Utricularia* 1 plant. 5 cm. Fls. yellow
 24. C. 6-20 cm. Fls. pink. Leaves fleshy.
 25. *Commel.* C. up to 25 cm. Fls. wh.
 26. *Brom.* Sc. 5-15 cm. Fls. wh.
 28. *Junc.* on wet mud. 6-15 cm. Fls. dark purple. Fls. fleshy.
 33. *Cyp.* C. 60-80 cm. Erect, usually 20-25 stems.
 34. *Cyp.* P. 30-50 cm.
 35. *Cyp.* P. 50-60 cm.
 36. *Gram.* C. 80-100 cm.

Tally 2/4.



Savanna forest of wet - bottom flats

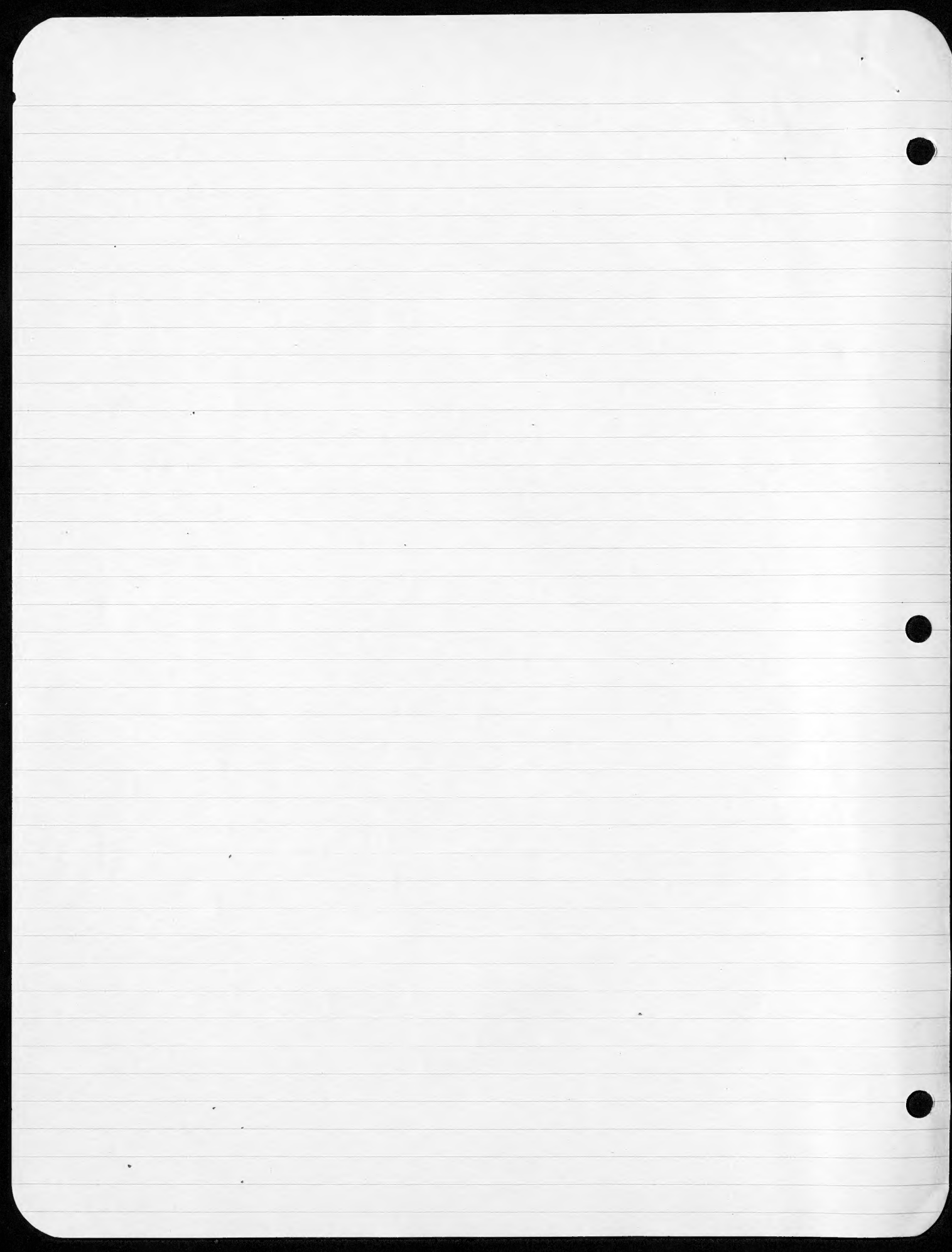
Other plants, cont.

Monon Tana dunes etc.
 on Cape York Road.
 May 1.

18555. *Utricularia*. Several plants on one flat: 3-4 cm. Fls. purple.
56. *Bommal.* Sc. on one flat: 20-30 cm. Fls. pink.
57. *Scroph.* S. 15-30 cm. Fl. tube dark pink, lobes very pale pink.
58. *Gram.* Sc. amongst sedges. 80-100 cm. Stems stiff, erect, usually 1.
59. *Xyris*. Sc. 60-80 cm. Fls. yellow. Leaf bases red.
60. *Utricularia*. Sc. 4-15 cm. Fls. violet.
61. *Scroph.* S. on moist flats. 10-30 cm. Fls. violet-blue.
62. S. " " " 30-35 cm. Fl. buds blue.
72. *Utricularia* S. 3-5 ~~cm~~ Fls. yellow.
73. *Utricularia* S. 3-7 cm. Persistent purple-bk. calyx. Fls. yellow.
75. *Xyris* C. locally. 50-70 cm. Fls. yellow. Proud clumps of many stems.
78. *Scroph* Sc. Herb 10-50 cm. Fls. pink.
79. *Euphorb.* C. locally. Perennial herb 30-40 cm. Fls. green.
81. *Poideum* C. locally. 40-50 cm. Fls. violet.
82. *Cyph.* C. locally. Annual. 15-20 cm.
83. *Bommal.* C. 30-50 cm. Fls. yellow.
84. *Logan.* C. locally. Herb 20-60 cm. Fls. yellow. Spreading & ascending.
85. *Thysanotus* C. locally. 30-40 cm. Fls. purple. Leaves erect.
86. *Utricularia* A. " 10-25 cm. Fls. yellow within, red without. Very strong sp.
87. *Bombacopsis* - Erg. locally. 5-12 cm. Filaments red. Ovary viscid.
88. *Eriocaulon* P. 8-10 cm.
89. C. Herb 10-20 cm.
18624. *Gooden.* C. locally. Herb 30-40 cm. Fls. blue-lavender
25. *Utricularia*. Several plants, grouped. ca-30 cm. Fls. purple.

Asplenium

Scattered.



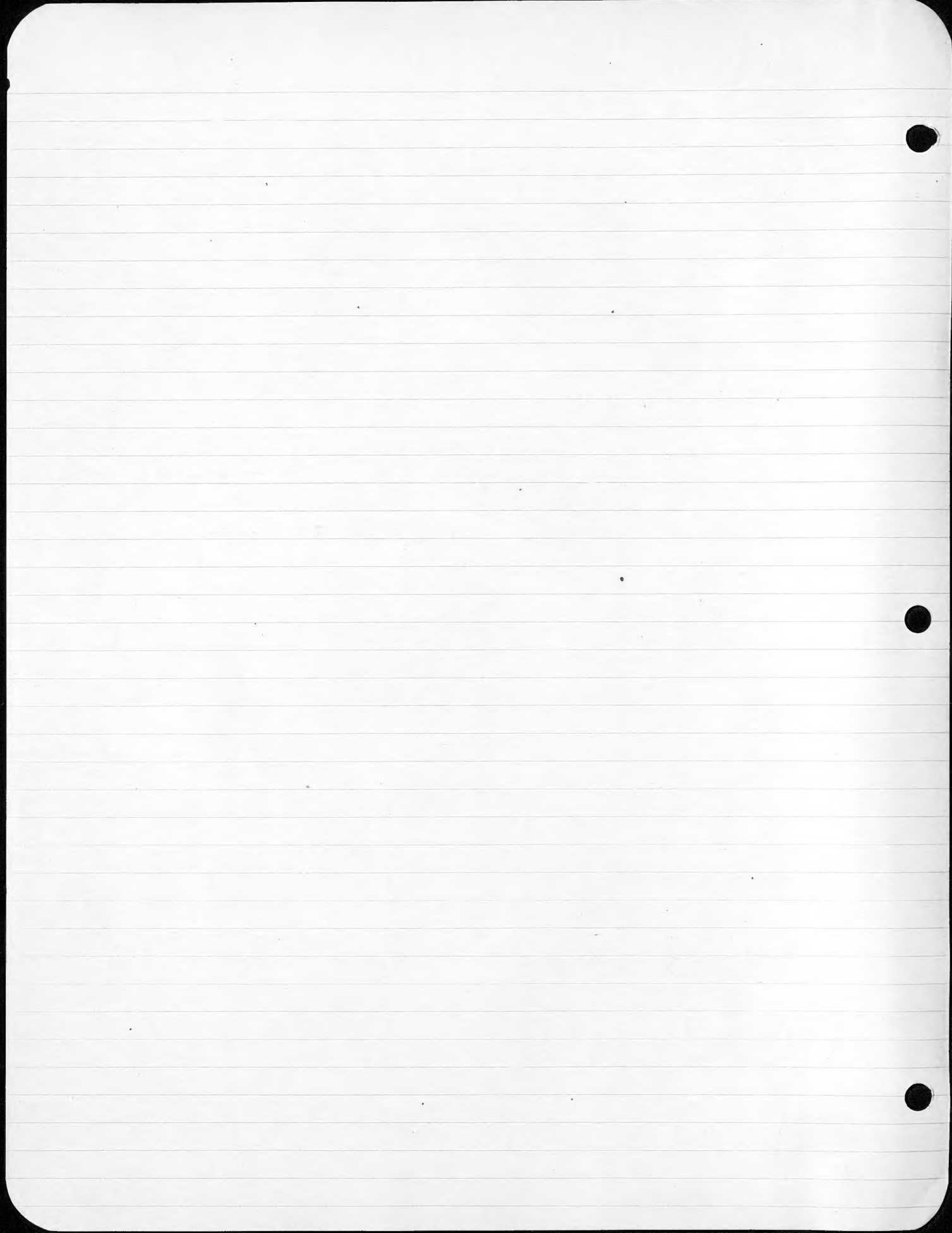
Tree swamps. Seasonal.

Trees

18350. Mel. leuc. var. aff. ^{x 25-35 cm.} 15-20 m. Paper bark; upright branches. Whitish, honey scented fls.

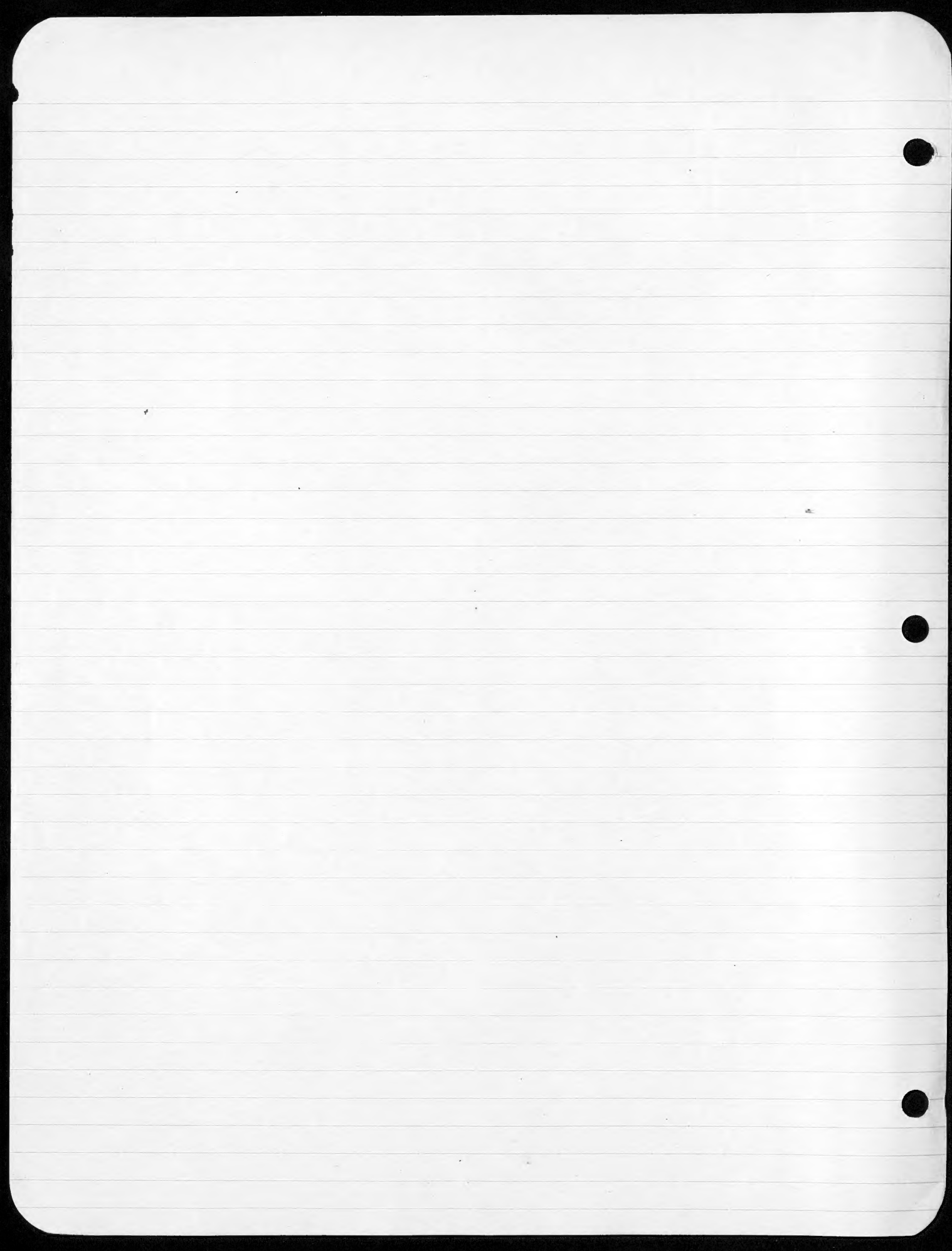
Other plants:

18346. *Contranthus* F. 8-30 cm. White & pink.
 347 " " 15-20 cm. " " " " Less hispid than 18346
 348. " " 10-20 cm. Yellow. tree-herb. Water plant.
 353 *Gy.* O. 80-120 cm. *Mata mata*.
 56 *Ericaulon* P. shallow swamps. 8-10 cm. Grey-wh. heads



Water plants:

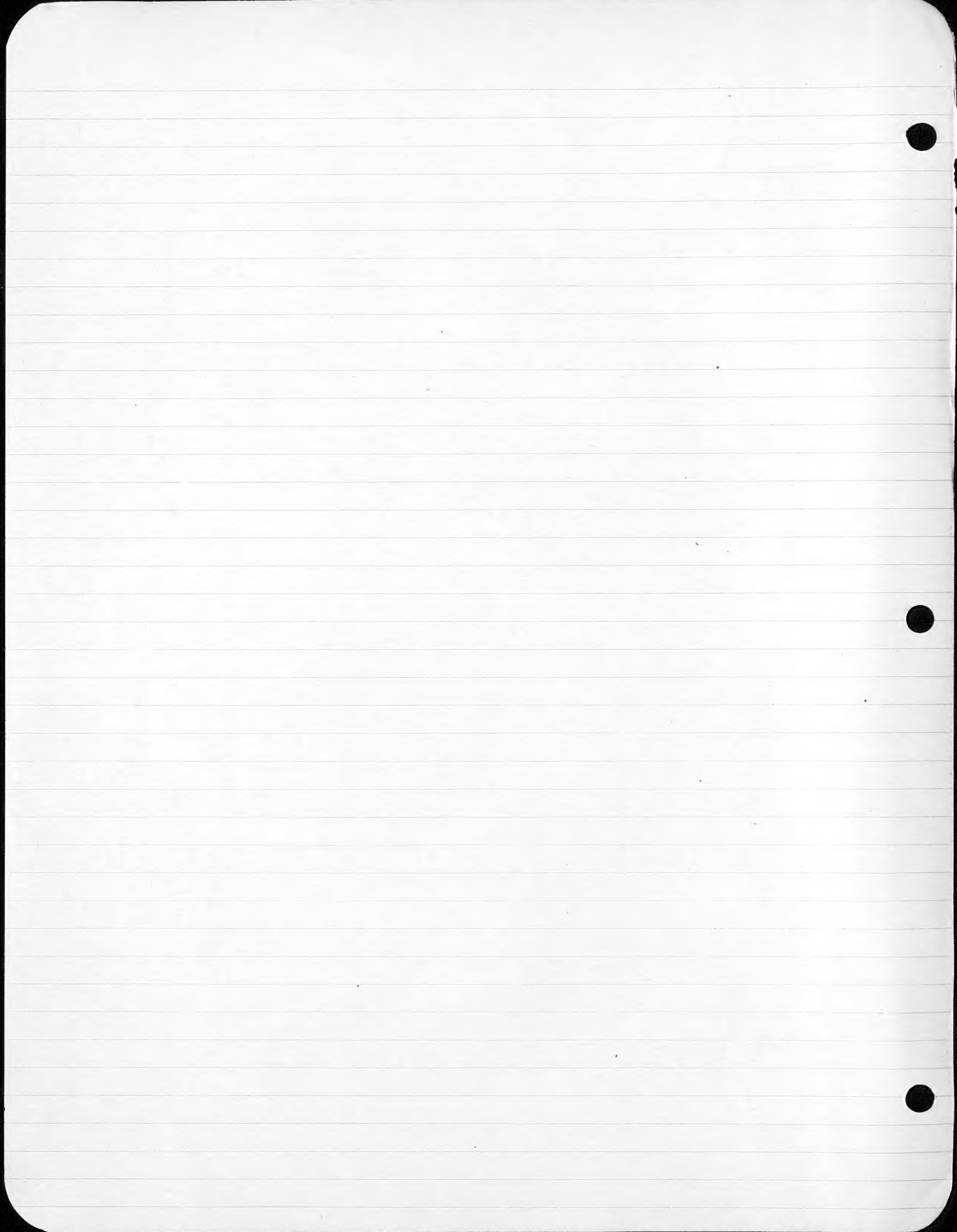
18348. ? 10-20 cm. Yellow. Also in better swamps.
474. *Triocaulon* A. in shallow seasonal streams. Only the fl. heads above water.
18610. *Waia*? Totally submerged in still water of a lagoon. ca. 50 cm.
15. *Nymphaea* F. in small waterholes. Fls. blue with purple tinge. Fragrant.
16. *Panicum* In a shallow waterhole with sandy bottom. Stems reclining up to 1.5 m. long.
17. *Leersia* In a shallow waterhole with sandy bottom.



Newcastle Bay.

Camp at NARU Point, 22 miles S. of Lonsdale.

Rain forest.	p. 20
Sand dune scrub of coast.	22
Littoral forest.	25
Black Gum scrub	26
Wallum scrub.	27
Savanna forest	28
Open grassland of Naru Point	30
Macquaries	32
<i>Fuchsia aquatica</i>	32.



Newcastle Bay

Rainforest - Developed on land which has not been invaded by dunes advancing from the sea shore.

Canopy trees:18798. *Acacia*.

C. along beach in thin eastern RF. at Lomond: up to 15 m.
fls. yellow (Bickney Mistle)

Other trees:18715. *Pandanus* sp.

22. Palm.

50. *Pittosporum*

86. Palm.

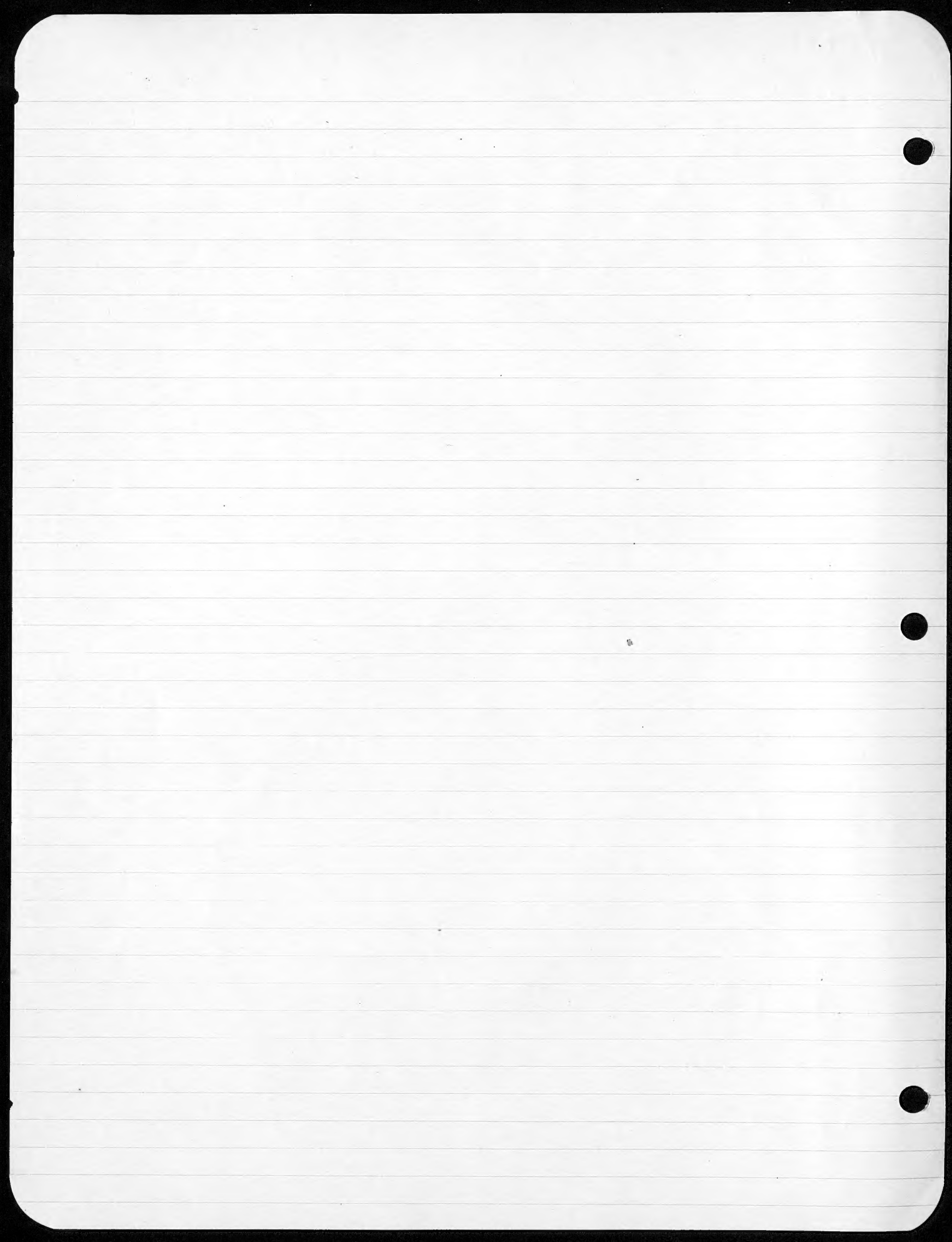
99. *Psychotria*O-TURU

A. locally behind dunes. 6-7m. Much-branched ^{see notes}
A. near a stream " " up to 15 ± 15 m. clumps; slender. ^{MAHA} *Pinnat.* (Fl. only).
also C. *Lockenbie*

F. 15 m. x 10 m. Wood wh. fragrant; Pale yell. fragrant fls.

{ O. on slopes of stream. 10-12 m. Stem l. Leaves ^{imbricate} *pinnat.* (Fl. only). OTANYA
{ *Lockenbie* also

F. in poor forest at Lomond: 6-8 m. Fl. white. Fl. ?



Newcastle Bay

Rain-forest:

Woody undergrowth:

Herbaceous undergrowth:

18774. Fern

Exp. in outer edge. 30-50 cm.

Climbers

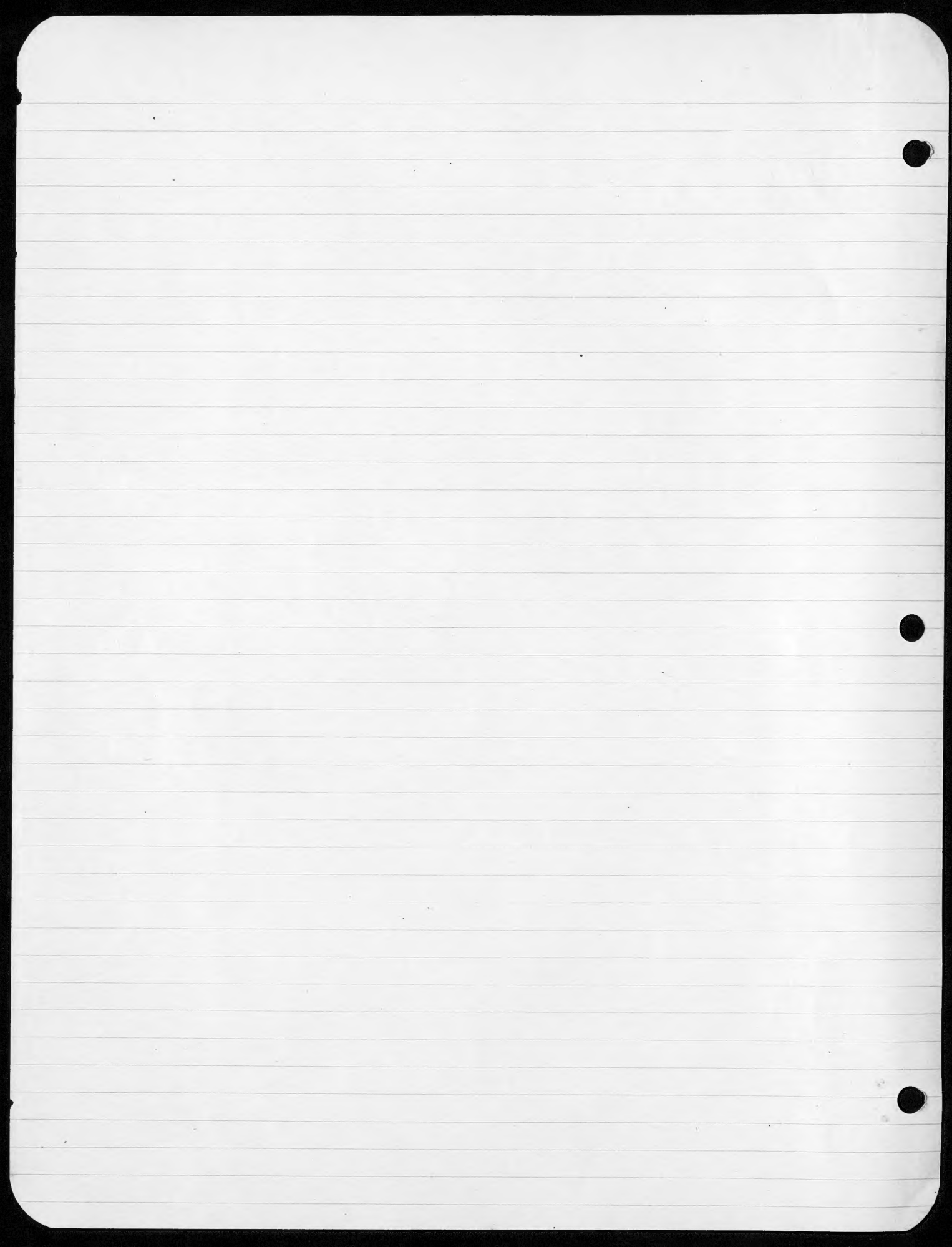
Epiphytes & parasites

18788. Fungus.

On a rotten log.

18846.

Rotting wood on ground.

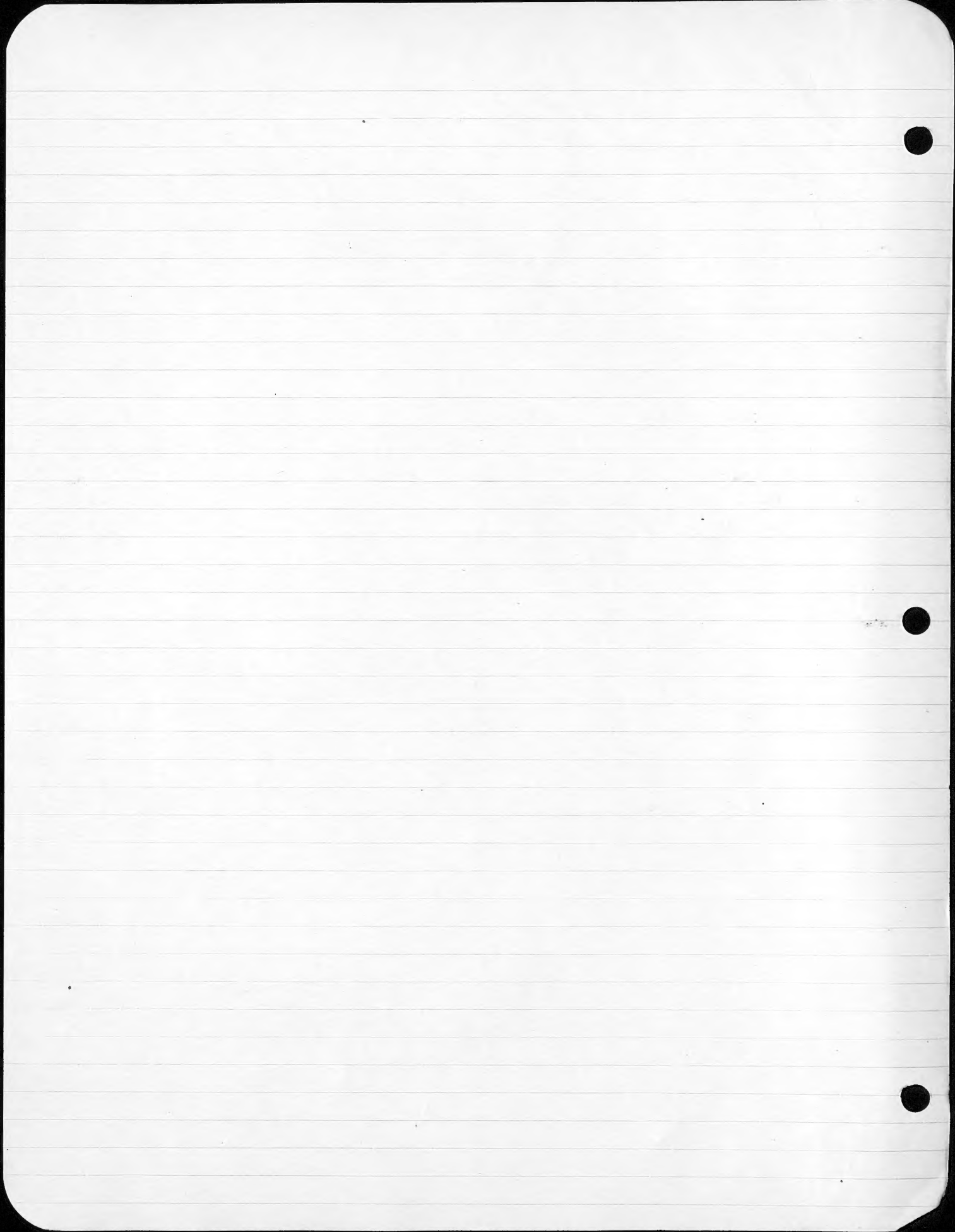


Newcastle Bay

Sand dune scrub of coast. A mixture of rainforest
and "black lagoon" elements.

Trees:

18654. *Terminalia* C. 5-6m.; fls. cream; stem purple-black fls eaten by black. INTIA
 61. Rub. Edge of a pool. 8m. fls. red, fleshy.
~~64. *Melaleuca* off *M. gymnocarpa*. A sand stabilizing sp.~~
 65. ♀ Tree or shrub 2-4m. Sparsely open forest.
 66. ♂ = 18665.
 67. Rub. C. tree or shrub 4-5m. fls. black, fleshy, petalobed. stabilizing shrub
 68. *Aboronychia* ? *infr. form* C. 6-8m. fls. yr.; fls. unisexual. on 7 or 8 m dunes.
 73. *Melaleuca angustifolia* off. *gymnocarpa*. A 6-8m; brown flat spreading; pale (or thin) fleshy bark.
ALUTHA. = 18664. fls. cream.
 79. *Smilax glauca*. A. tree or shrub. 2-5m. Leaves grey-green; fls. cream. WA-LA
 80. *Petalostigma* P. but really a shrub.
 93. *Racina* VA on Wane Pt. 2-5m.; frag. yell. fls.; bark rough. br.
~~18715. *Sandanus*~~
 18718. *Racina* P. edge on edges; up to 6m; bark rough bark. Fls. yell. LUPURRA
 79. *Parinarium randa*. A. shrub or tree 2-6m. fls. ? fls. unisexual. O-LARI
 80. *Phellodius* F. 4-6m. fls. wh. fls. ovary. Leaves convex, greyish below.

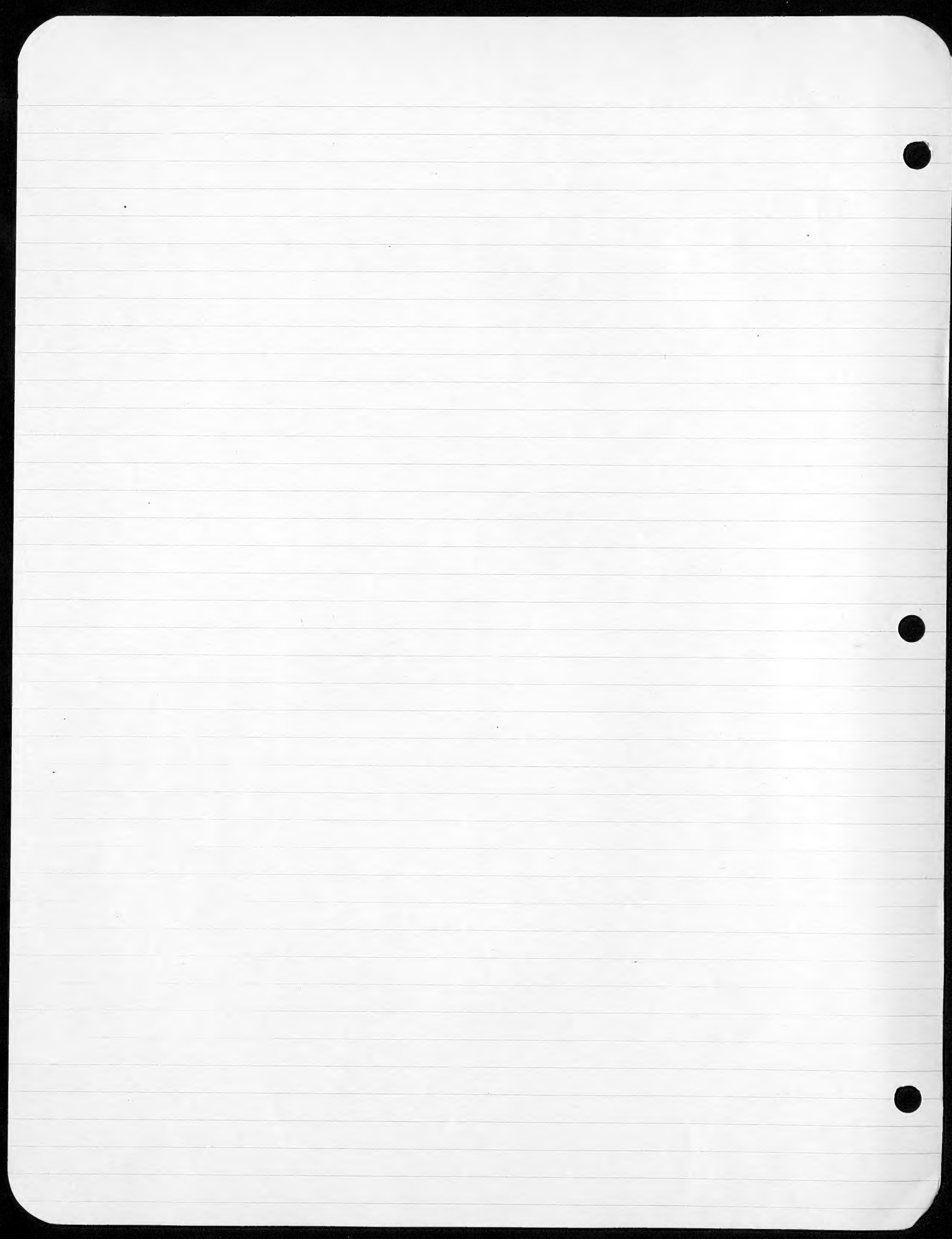


Newcastle BaySand dune scrub of coastShrubs:

- 1866a. *Metaleuca angustifolia* aff. *gynophylla*. P. sand-stabilizing sp. 1-2 m. Fls. cream. ALUTHA
74. Rub. *Tristemma (Bankia)* 2-5 (sometimes sub-arboreal?); aromatic. Fls. wh.; fls. 5 angled, obliques.
77. *Mel. ~~laevigata~~ ^{gymnocarpa}* P. sand-stabilizing sp. 50-150 cm. Fls. yr. - wh.
80. *Petalostigma* P. 1-3 m. fls. only.
81. Rub. (*Morinda reticulata*). O. in scrubberies, ± 50 cm. Camb. wh. bracts; fls. cream. Fls. young.
82. Rub. C. in low scrub, ± 1 m. Black fleshy fls. = 18667. LUNISAN
18720. *Solanum* R.P. 1.5 m. Fls. lavender. Fl. red, ca. 15 mm. dia.
23. *Photomyia macrocarpa* O. in low scrub, ± 1.5 m. Fls. wh. Lockyer also.
24. *Mikstroemia* F tree or shrub 2-3 m. Fls. orange.
83. *Papanea* O. 2-3 m. Fls. wh. Fl. purple-black.

Herbs:

18660. *Cy.* Tufted in scrub, ca. 30 cm.
62. *Schizasa* O. in scrub (C. on savannas).
69. *Cy.* S. in shade; spikes whiteish
71. *Docand.* C. in shade & forming thin ground cover locally. Fls. purple.
76. *Taraxac.* In scrubberies: ascending, ^{10 cm} forming small mats. Fls. cream.
89. *Cyperus* C. locally in shade. 50-60 cm. stems usually red.
18712. *Gram.* 60 cm.
13. *Panicum* C. locally in low scrub. 15-20 cm.
19. *Gram.* Sprog. in small colonies in shade. ± 50 cm.



Newcastle BaySand dune scrub of coastClimbers

18657. *Aloc.* *C. subcaudens* stems 2-4 m. Fls. yellow; fl. unisexual.
 18717. *Mimif.* Low scrub, 1 m. Ripe fl. orange.

Epiphytes & Parasites

18657. *Moss.* Lower trunks of trees (also rotting bark). Like gray sp. on Florida cabbage palms.
 59. *Cyclophorus.* *C.* in scrub. Throly creeping; leaves thick, fleshy.
 72. *Tarantula* Small sp. ± 40 cm. Fls. red & yellow.
 88. " On low trees; 50 cm. Branches sub-pendent; fls. blackish purple & green.
 18721. *Dendrob. cf. ligillum* Unc. Very close to ground; 30-60 cm. Fls. purple, odorless.
 85. *Myrmecodia.* Fls. purplish-ub. *C.* in Lockyer sav-forests.

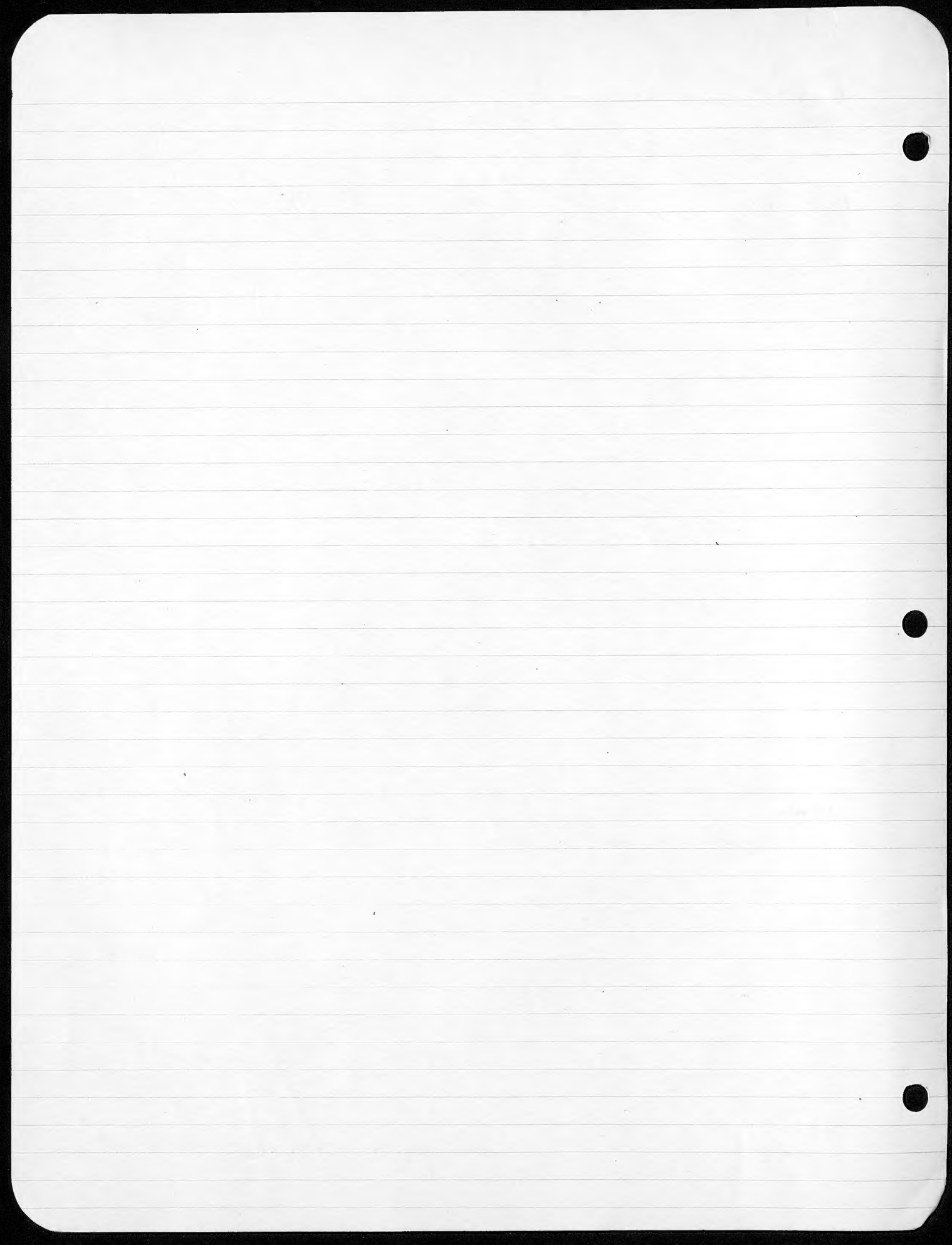
Ponds & streams

WOREGA

18648. *Gchnia.* neg. wet sandy edges; up to 5 m.; stems branched, ascending; ^{red} _{red}
 18716. *Blangas malayana.* Densely prostratus 2-2.5 m. on open banks stream near beach.

Mosses

18856. *Rolling bank.*
 57 " - & lower tree trunks. Like gray sp. on Florida cabbage palms
 58 *Roller logs.*
 70. *Dead bark of trees*



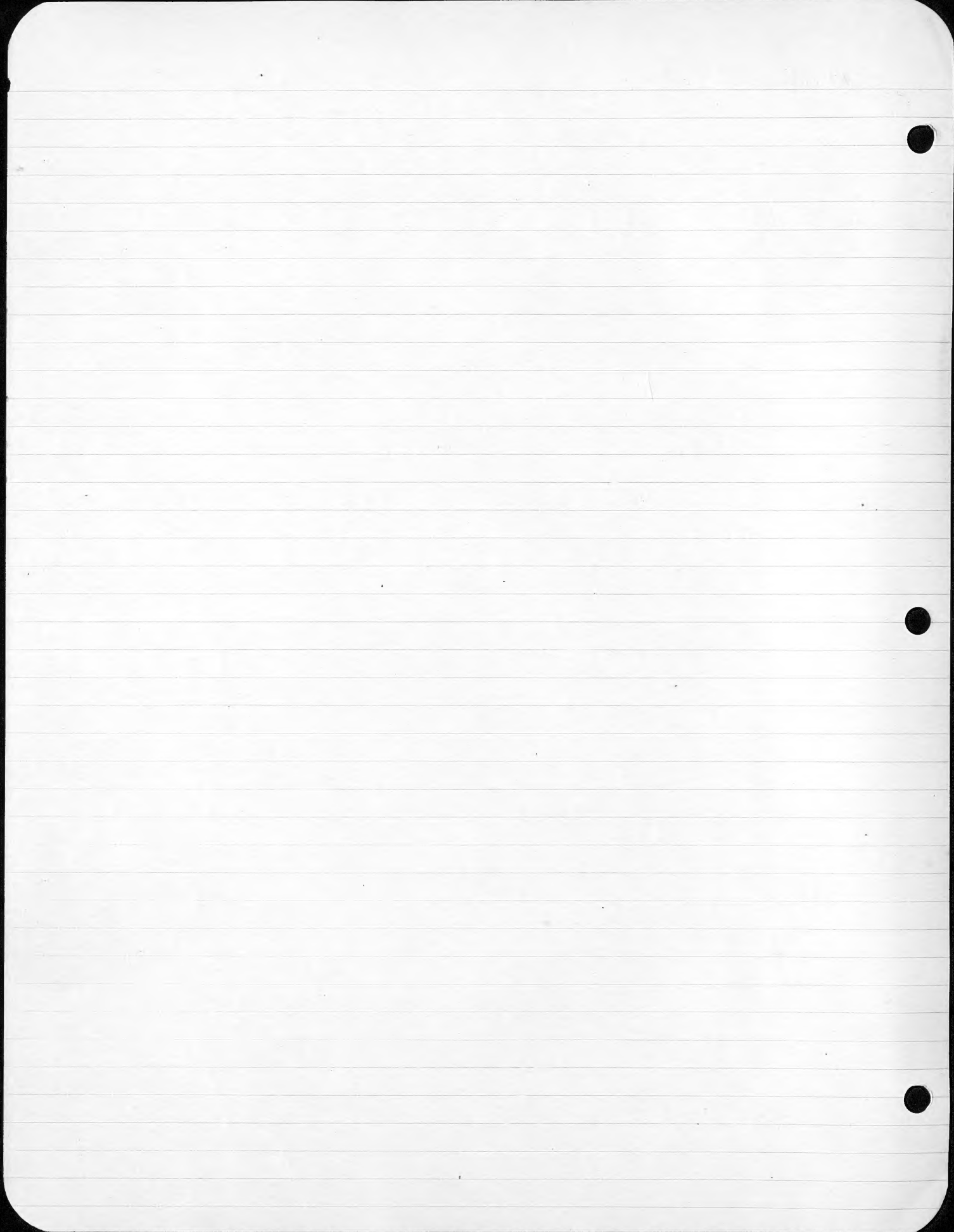
Newcastle BayLittoral forestWind-clipped low forest on seaward
side of dunes.~~18675~~ 18675. *Ficus*.

Tree 8m. Scabrous leaves; fl. unisexual, sessile.

Casiphyllum inophyllum, flowering trees at camp.18787. *Pandanus*.*modestulus*C. & camp. on coastal dunes. 5-8m. Freely & openly branched. Leaves
glaucous. Fl. heads 15 x 12 cm, 3-angled. ANKANTUKKA

18792.

Pandanus *spinalis*C. on rocky coastline & beside small freshwater streams in
coastal sand dune area. 5-8m. Stem branched, ramified on
short profls. Fl. head ca. 22 x 18 cm.



Newcastle Bay:

Black tree scrub. Patches in savanna-forest back from ~~coast~~ coast.

Trees:

18754. *Leptospermum Fabricia*. Chief D. 3-10 m. Fl. white. Bark dark br., thick, hard, fibrous, deeply fissured. ANTARRA
 66. *Gyocarpus* F. 5-6 m. Fl. green. (up to 10 x 25 cm; fl. green of 18756)
 89. *Santal.* Bays of scrub. Sm. Leaves glauc., fleshy.

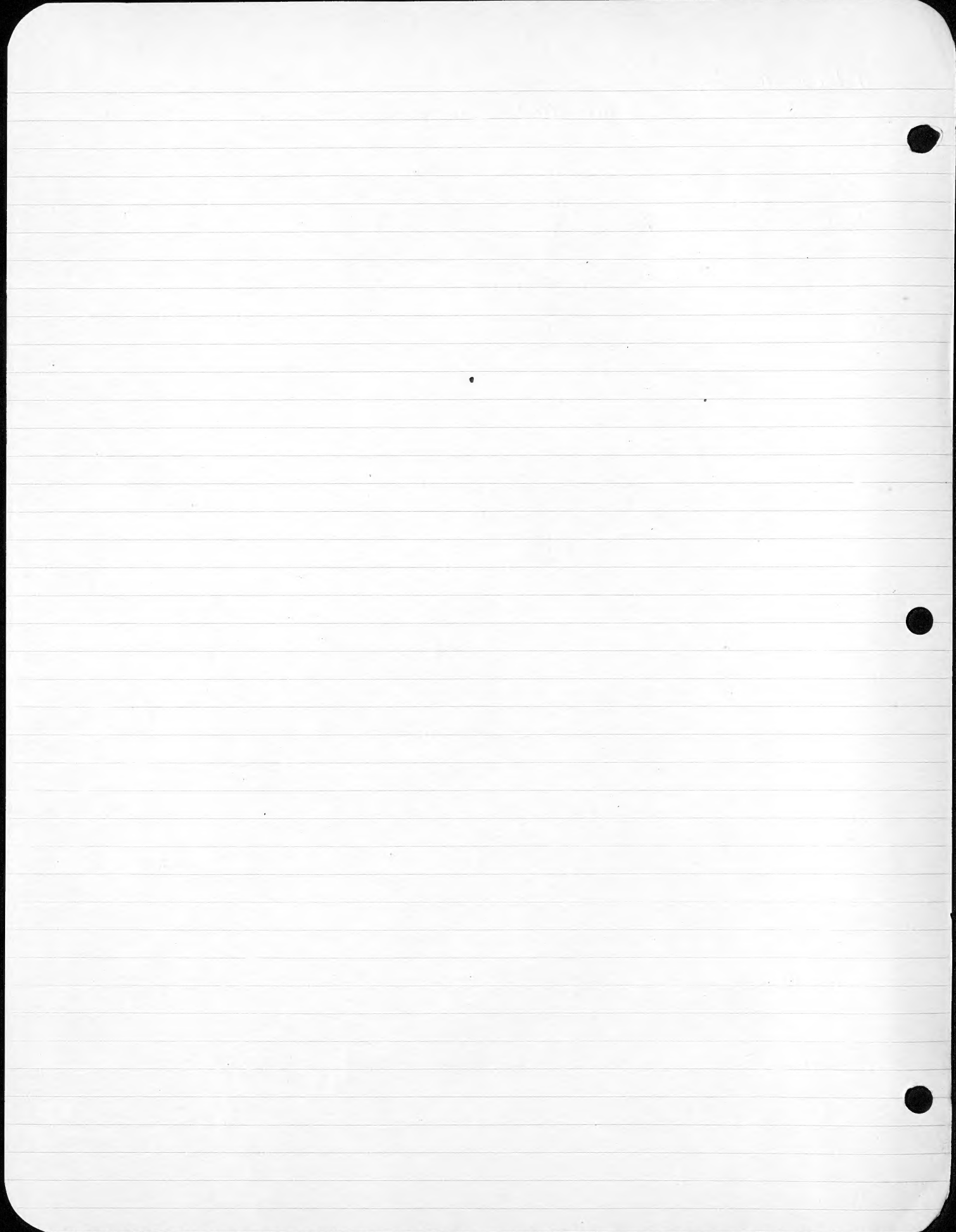
Shrubs:

18768. *Hibbertia* A. about edges 1-1.5 m. Leaves br.-fleshy below. Fl. yellow
 69. *Mikstroemia* A. - - 1-3 m. Fl. wh. Fl.?
 70. *Epacrid.* A. in edges. Tree or shrub to 5 m. Fl. wh. (small leaved sp.)
 72. *Dodonaea* C. - - 1.5-2 m. Fl. orange. Fl. ~~very~~ very young.

Herbs:Climbers:

18771. *Ploca*. C. 2-3 m. Fragrant wh. fl.; leaves stiff, greyish below

Moss 18766. On living bark.



Newcastle Bay

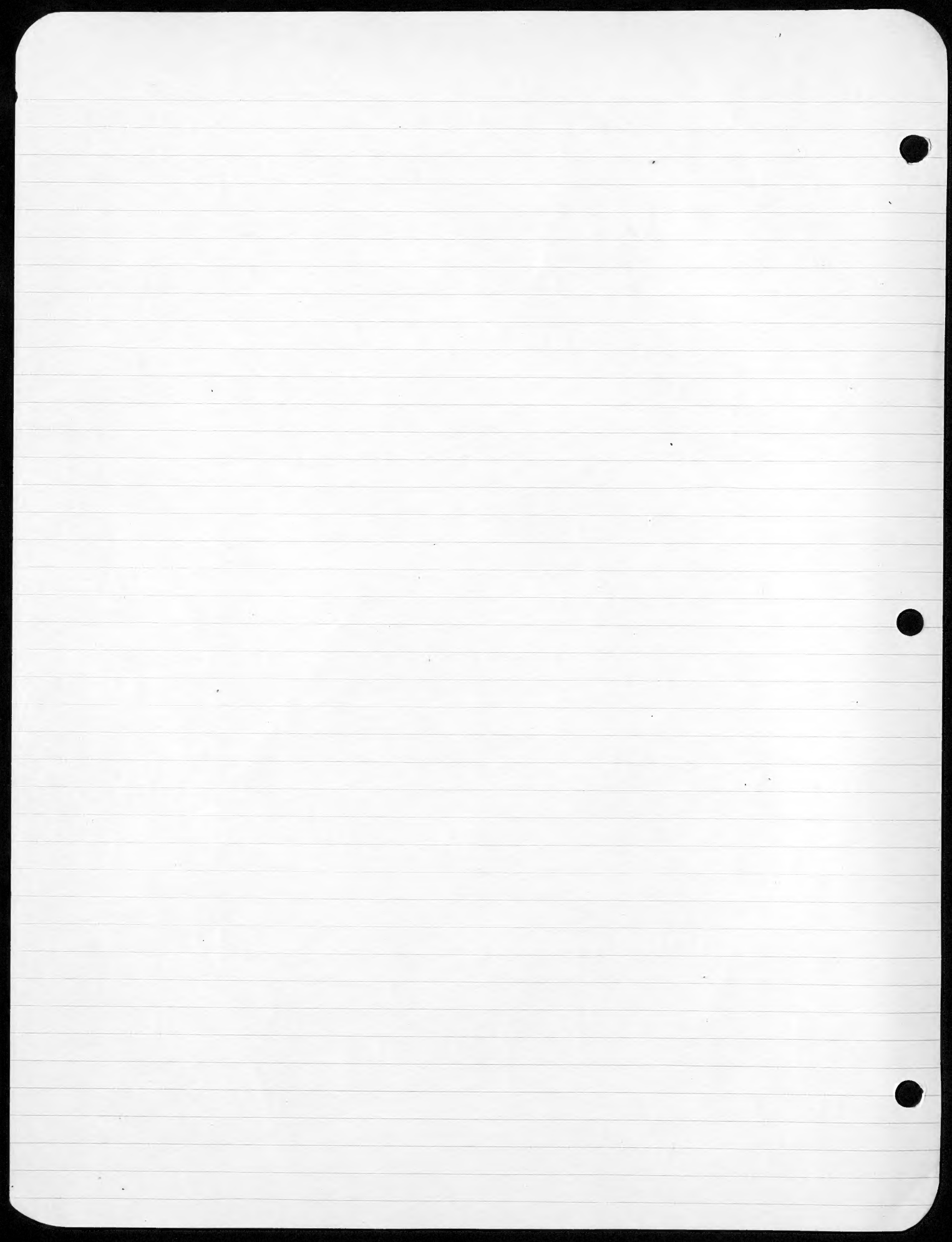
Wetland scrub On dry to half-marshy grey sandy soil in a depression behind the beach. ("healthy hollow").

Shrubs

18649. ^{Agave lysicephala} ~~Agave~~ P. up to 1 m; low bushy habit; cream fls. in globose heads.
50. *Fuchsia* P. under 1 m; fls. pink to deep red.
51. *Mitella* WINTI. A. (moist ground) ± 1 m. Fl. only; leaves citim-venate; compact; bushy.
52. *Euphorbia* P. 1 m. or more. Wh. fls., unisexual. (= larger leaved sp. of Jolly Ok). dense scrub also.
53. *Symphoricarpos* P. 30-80 cm; much branched, bushy; fls. yellow.
55. *Dodonaea*? P. ± 1 m. Fls. green.
18727. *Wrightia tinctoria* C. to 1 m. on marshy ground. See notes. ~~XX~~ ONTARIO.
39. *Haloragis* Scrambling on mossy ground amongst shrubs; ca. 1 m.

Herbs:

18708. *Xyris* ~~Scattered~~ 30-40 cm. Fls. yellow
9. *Commel.* C. ascending up to 30 cm. Fls. purple.
10. *Comm.* C. branched or simple; grassy. Fls. yellow. 15-30 cm high
11. C. subprostrate. Fls. wh.
29. *Bromus* C. wet ground. 10-30 cm. Fls. pink.
30. *Tridax*? Sp. 25-20 cm. Fls. wh. *Tridax* also.
31. *Lil.* Sp. 20-30 cm. Fls. wh., anthers dk. br.
32. *Xyris* C. marshy ground. 30 cm. Fls. yellow.
33. *Utricularia* C. " " 10-20 cm. Fls. yell.
34. *Bromus* C. " " 3-20 cm. Leaves red. Fls. wh.
35. *Scroph.* C. mossy ground; 20-30 cm, stiff & fleshy. Fls. violet & dk.
36. *Utricularia* C. " " 15-40 cm. Fls. purple.
37. " *Carex* mossy stream. 10-12 cm. Fls. greenish-wh.
40. *Lycop.* C. on open ground. Prostrate. Fls. pink.
41. *Gyp.* Very open mossy edges stream. ca. 50 cm.
42. " P. moist open hollow. 30-40 cm.
43. " *Trif.* locally " " 20-30 cm.
44. C. locally on moist sand. Much spreading; leaves succulent. Fls. pink
45. *Polygon.* Sp. wet open hollow. 10-20 cm. Fls. pink. *Utricularia*
46. " Local " " Fls. blue, hidden under leaves.
47. *Gyp.* C. wet sandy edges stream. ± 15 cm.
48. *Crotalaria* Sp. in open hollow. ± 30 cm. Fls. yellow, lobs. blk.
49. *Trifolium* Local wet sandy banks stream: 10-15 cm; grey-gr.



Newcastle Bay

Savanna-forest. On sandy flats & low ridges behind the rain forest & dense scrub of the coast.

Trees:

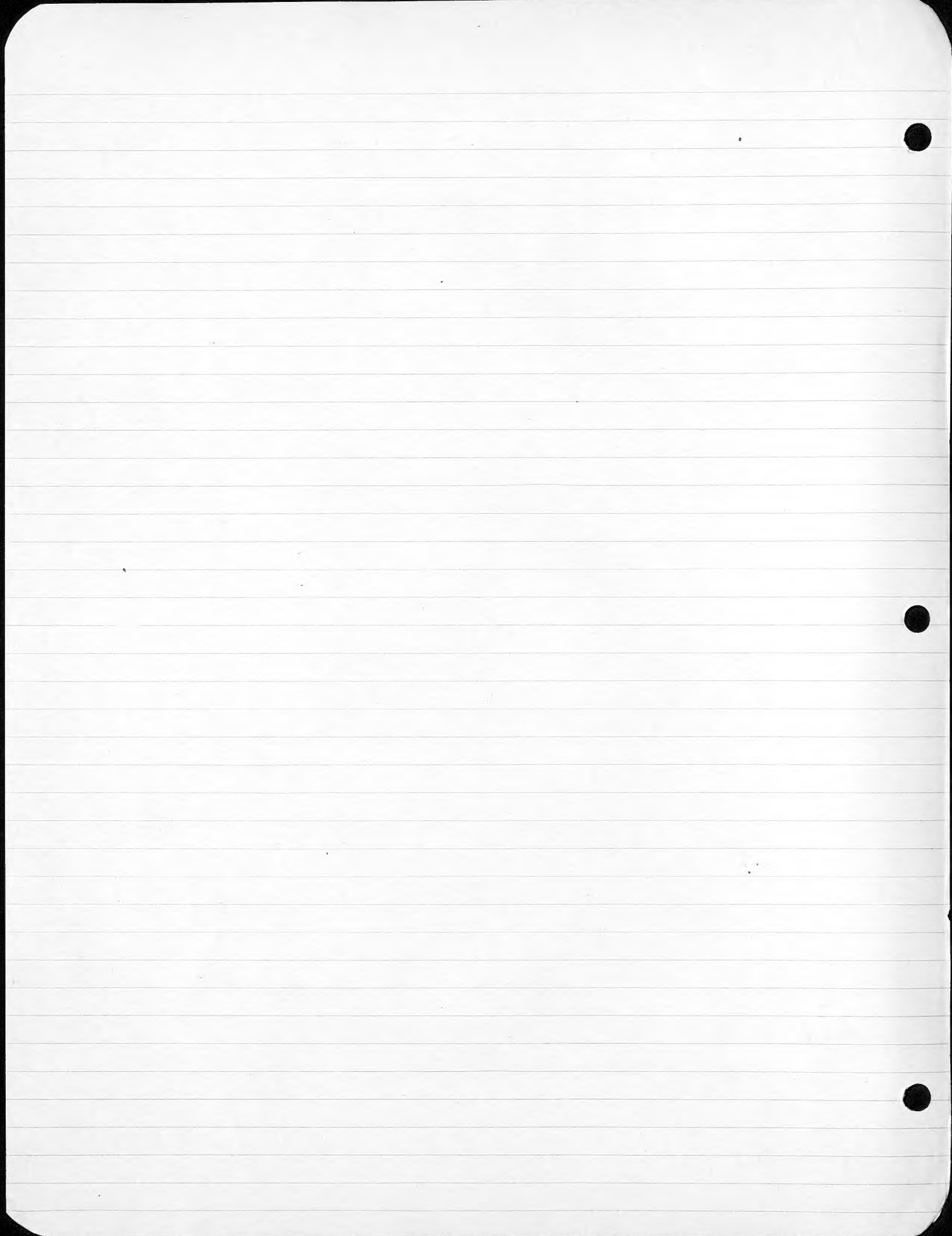
- 1875h. *Santalum* Greg. in small groups. 5-6m. Fls. cream. Bark rough bark. Leaves glauc. below. Spgy wood fragrant
67. *Eucalyptus* AU-ORA Bloodwood, up to 20m. (Chief D. Fls. cream. Bark of trunk & branches scaly brown)
79. *Parinarium nondu* C. (also as shrub or small tree in dense scrub). O-LPR1.
95. *Mel. symphyocarpa*. C. on sandy shore of L. Borovita. 4-6m. Neeping low tree; fls. very dark green. Fr. yellow & reddish-orange.
- 1880A. *Tapei*. WA-LPR. F. sparsely in sandy Woodwood forest. Bark barrel like 15-18m. Bark rough, blackish. Young fls. only. Leaves eaten by cattle.

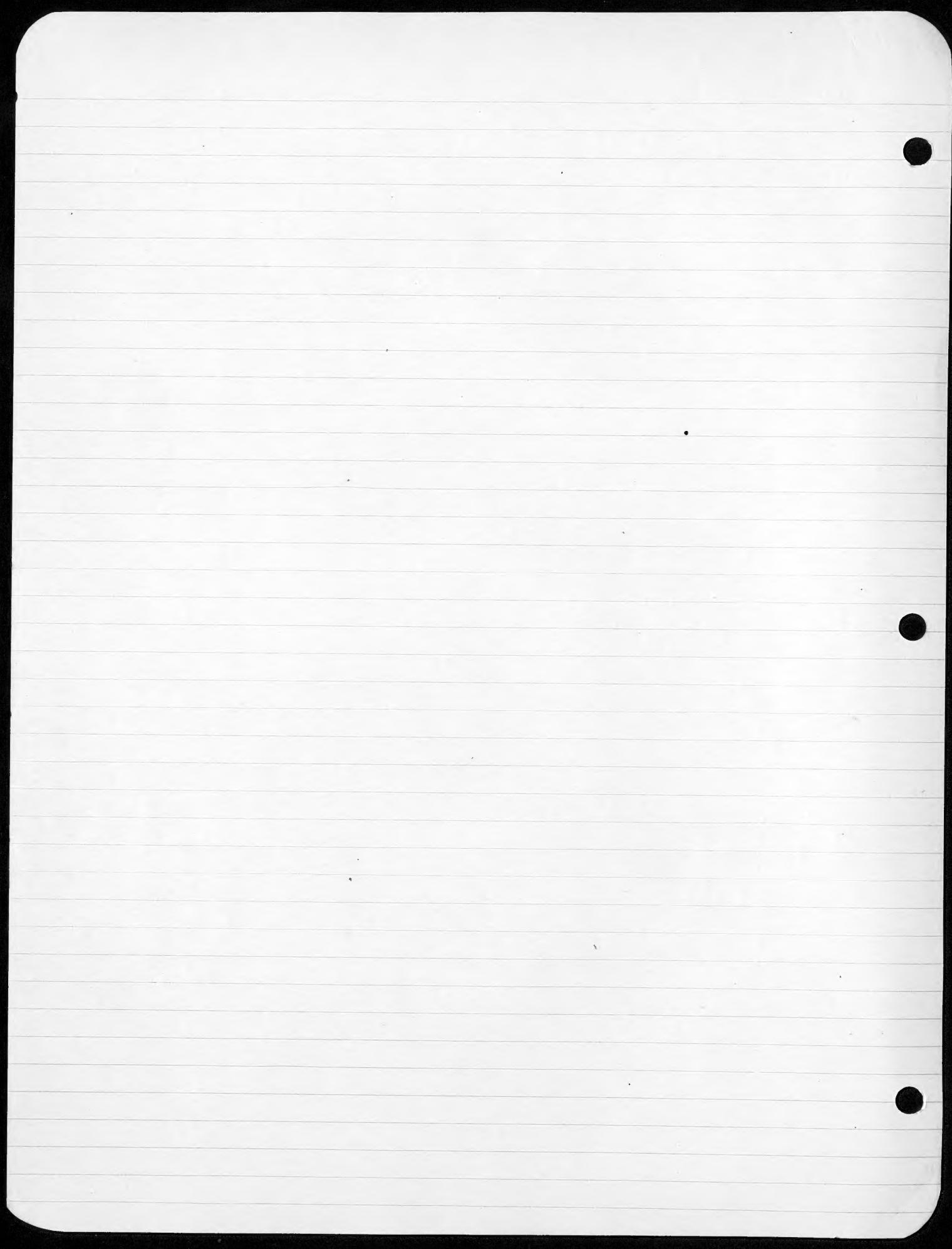
Shrubs:

18751. *Lig.* 60-80m. A. sandy ground. Many spreading branches. Fls. purple-pink
55. *Hibiscus*. O. " " 60-100cm. Fls. wh., shoot dark red-purple.
65. *Fingia* A. " " 1.5-2m. Fls. deep rose-pink. Fl. immature
71. *Santal.* R. shrub or tree 4m. Fls. yellow.
93. *Euph.* A. in SF adjacent to R.F. D. pioneer in conversion of SF to R.F. C. also *Lockhartia*. 2-3m. Fls. yellowish.
97. *Euph.* A. pioneer in conversion SF to R.F. 5-6m. Fls. yellow. Fl: gr.
18805. *Strobilium* VA in SF adjacent to R.F. Tree or shrub 2-5m. Fls. yellowish.

Grasses:

18801. *Acacia*. C. in extensive scrublands on Fly Point. Shrub 60-80cm. Fls. yellow. Numerous upright branches.





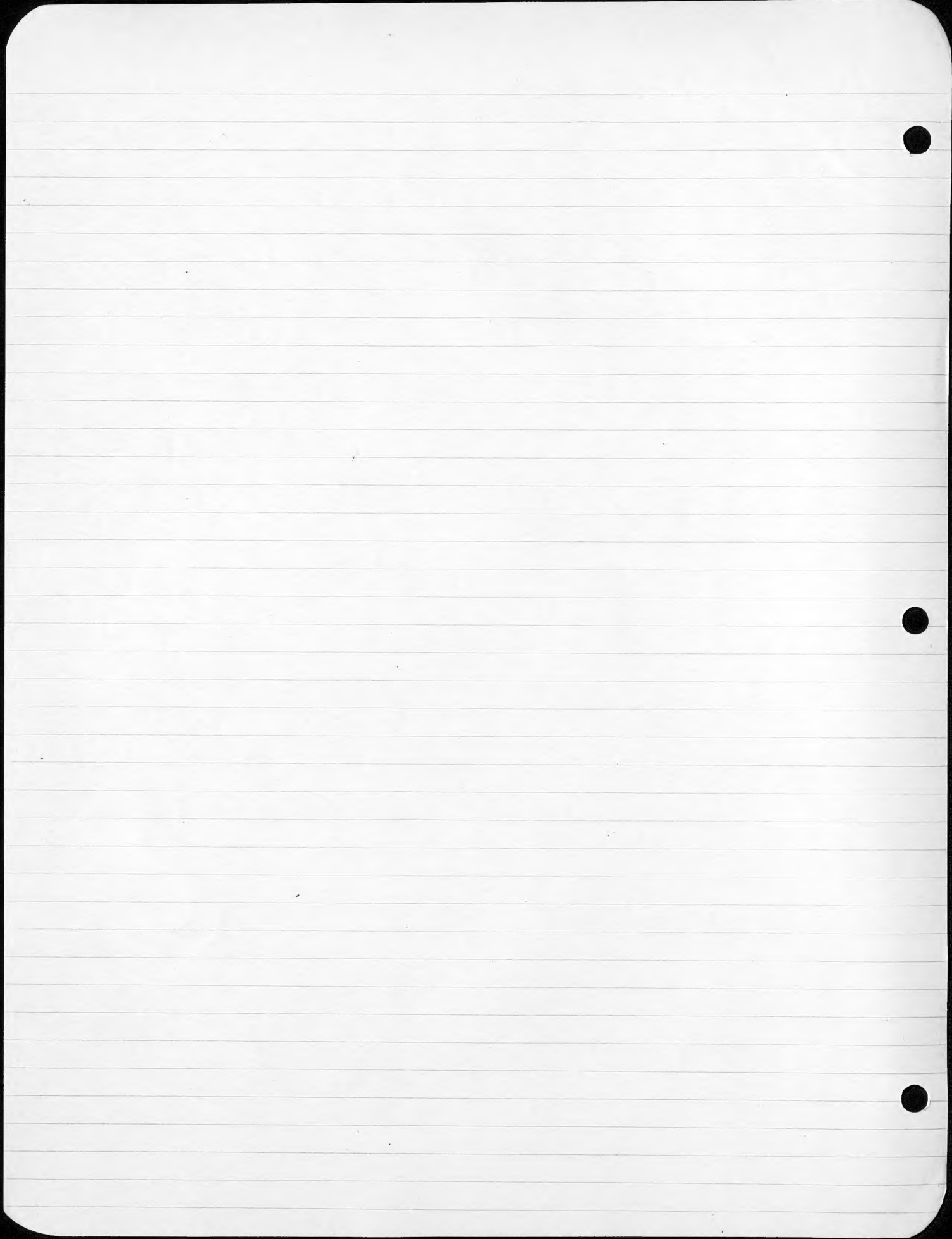
Newcastle Bay:Open grassland of Wave Point:Shrubs:

18652. *Elaeagnus*. P. tree or shrub to 6 m. (western side) = larger leaved sp. of *foody* etc; fls. ^{wh.} ~~cream~~.
81. *Phorinda reticulata*. O. \pm 50 cm. Fls. wh. (rare): cream fls. AILLINGA
85. O. 30-50 cm. Fls. yellow, showy (aff. *Procumbens*).
92. *Chibbalia* cf. *Bankii* A. 40-50 cm. Fls. yellow, showy.
18703. *Acacia* cf. *humifera*. A. subprostrate to prostrate. Mostly sterile. Fls. golden-yellow.
776. *Thamnia*. C. prostrate in dense dark green mat. Fls. wh. of 18652.
77. *Fragaria*. A. prostrate & mat-forming. Fls. deep rose & pale pink. Fls. unripe.

Grasses:

18684. Also covering openings in shrublands. \pm 15 cm.
90. Principal sp. on patch. 60-80 cm.
18700. *Pennisetum* *parva* P.
6. C. 50-70 cm.

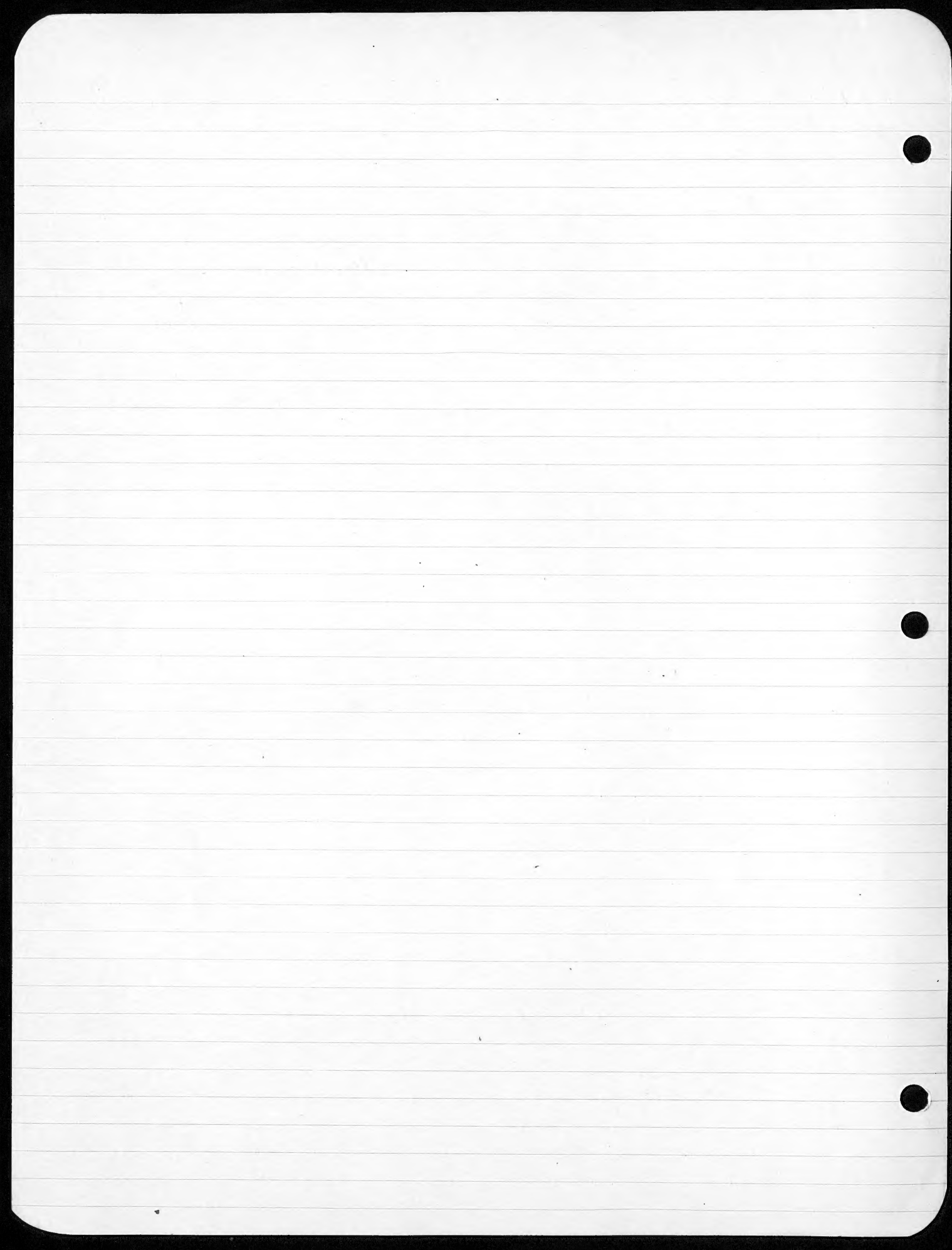
Sedges:



Newcastle Bay.Open grasslands of Mann Point alt. 10 ± 20 m.Herbs.

18678. *Lepum*: C. on open ^{sandy} ground: trailing. Fls. yellow.
83. *Stacthouisia* C. 15-30 cm. Branches a single; leaves ± fleshy. Fls. gr-yellow AN-YA
86. *Convolv.* C. trailing on sandy ground, Fls. blue
91. *Sua.* C. sandy ground. 20-40 cm. simple or branched; fls. cream
94. *Podop.* P. prostrate. Fls. wh.
95. *Tropaeolum* C. 20-30 cm. Branches red; fls. whitish
96. *Convolv.* C. 15-20 cm. Fls. whitish
97. *Ipomoea* O. herb ± 10 cm. Fls. purple. WUNTA
98. *Gleome?* O. stiff, spreading few cm. above ground. Fls. yellow.
99. *Amaranth.* O. erect 50-80 cm. Fls. greenish
18701. *Rub.* C. ± 40 cm. weak, scanding. Fls. cream
- 2 *Convolv.* ~~*Tropaeolum*~~ F. 10-30 cm. Fls. yellow (*Tropaeolum* also).
- 4 *Convolv.* C. trailer to over 1 m. long. Fls. wh.
- 5 *Convolv.* C. trailer. Fls. wh. showy.
7. *Ipomoea* O. close to sea. Twisted or short creeping. Fls. purple, showy
18778. *Helichrysum* Sp. 15-30 cm. Fls. yellow, showy. Leaves ± viscid.

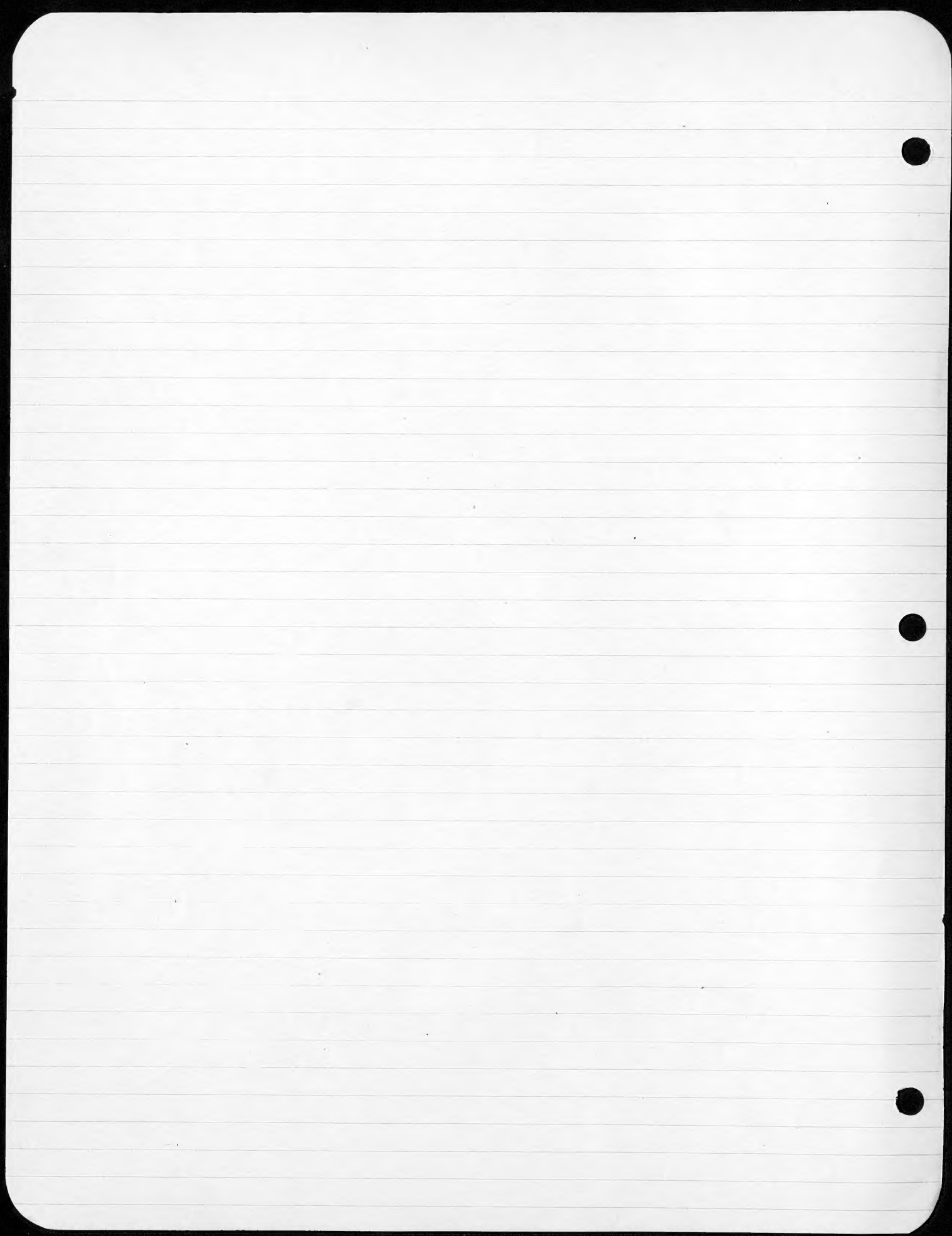
18802. *Sylvestris*. "Townsville *Lucerna*". Forming dense mats on open ground of Vallaick Pt.



Newcastle BayFreshwater aquatics18738. *Hydrocharis*.

Submerged in a boggy pool between dunes (camp). 20 cm.

Mangroves:18775. *Nipa fruticans*WAT-PAPU. At single mature or nearly mature, but
sterile plant ca. 10 m. tall on muddy bank of a freshwater
stream influenced by tides. Just behind beach; mangroves
Thicket.



Gardine River, ca. Long 142° 21

Tawanna fowri

Turkey bush

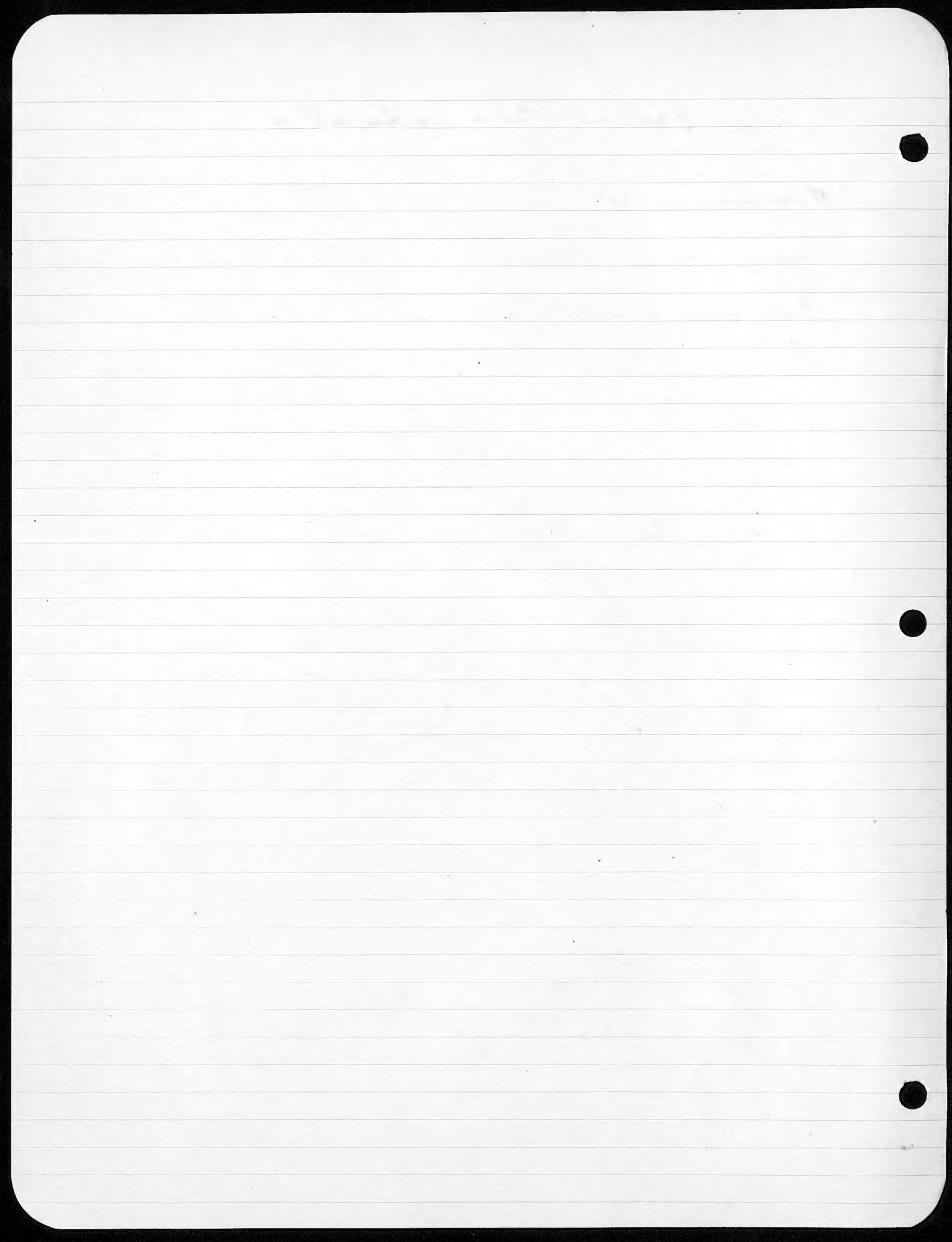
Black water scrub

Riverbanks

Waterholes

Wanders

Tanamera hejooon



Gardine River

tolerant ridges
Sandy bottom flats
Sandy flood plains
Low sandy ridges
Wooded forest of sandy riverbanks

Savanna forest

Trees

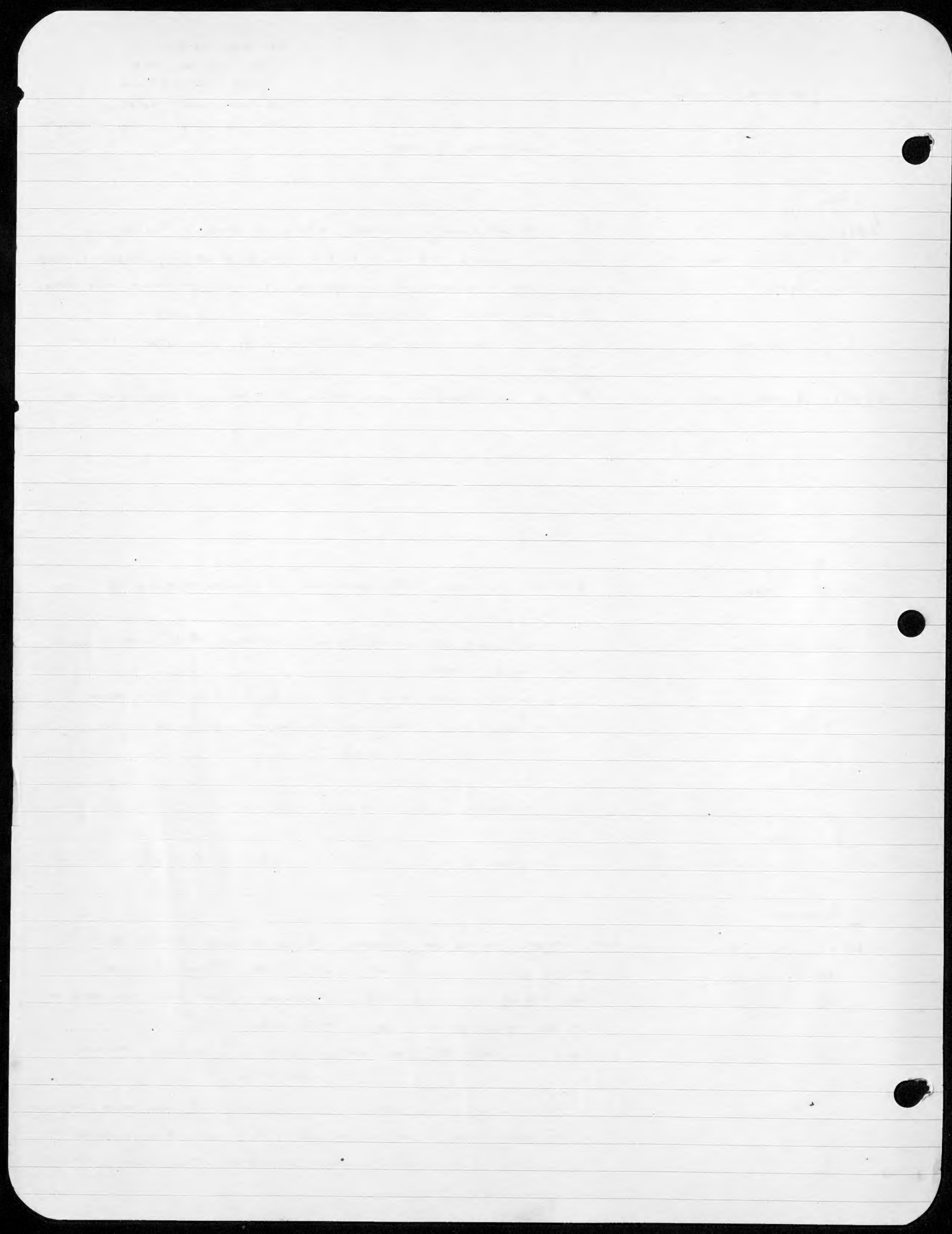
18821. Rub. F. in low sandy bottom ridges. ± 10 m. Fls. wh.
 25. Casuarina C. low sandy ridges. 6-8 m. Bark dark grey, rough, fissured.
 83. Euph. ? Forming limited pure stands in wet depressions on river flats.
 8-10 m. Sterile. Branches drooping. LURRA
 97. Proteaceae O. mesquite forest tolerant ridges. 8-10 m. Fls. cream. Leaves
 bluish green. Bark br. rough bark.
 18501. Xanthosoma F. with mesquite on petty ridges. 8-10 m. Fls. yellow. (Large tree
 w/ "Lockhart")

Shrubs

18822. Euph. VA in mesquite / Woodwood St. of tolerant ridges, 16 1.5 m.
 Fls. 8 ft.
 27. Rub. C. low sandy ridges. ± 20 cm. Fls. yellow. Some spreading habit
 citronella-scented.
 69. ? Erag. in mesquite forest of tolerant ridges. 1 m. Fls. cream.
 88. ? Local upper sandy flood plains. Numerous small stems in clumps 1-2 m.
 Fls. red. Fls. 1-4 lobed.
 91. Rub. T. low sandy ridges. 50 cm. Fls. white.
 92. ? C. mesquite forest on hard tolerant ridges. 80-100 cm. Bark grey fl.
 93. Euph. O. " " " " 60-80 m. Divaricate.
 95. Blechnum 1 sp. " " " " 1 m. Fls. dark purple. Fls. ?

Grasses

18820. Erag. locally on higher sandy flood plains 10-15 cm.
 24 P. moist sandy bottom flats 50-70 cm. Plant ± rigid.
 29 Erag. locally on sandy ridges ± 20 cm. Plant bent over as if to
 bury the rigid tips of 15 spikes in the sandy soil.
 30 C. sandy mesquite / Woodwood ridges. 70-80 cm. Spikes redish.
 31 " " " " 40-50 cm.
 70. Panicum. Erag. moist banks of a billabong. Perhaps 120-150 cm. Culm few, stout.
 71. P. in Woodwood forest of sandy riverbanks. 1 m. Fls. yellowish cream.
 72. One of chief grasses of higher sandy flood plains. Wide clumps of many
 slender culms. 80-90 cm.



Gardiner River

Savanna forest

Grasses cont:

18873.

74.

75. *Panicum*

80.

85.

90.

94. *Bristle*

18913.

On of principal sp. on sandy floodplain. 80-100 cm. Numerous sub-^{var.} ^{cultures}
 Loose sand on river floodbanks. 40-50 cm. Proliferous.
 O. in semi-shade " " Ascending.
 P. on sandy floodplain. 30-40 cm.
 A. wet depressions on river flats. 80-100 cm. Plants of few very culms.
 F. " " " 70-80 cm. Few robust culms.
 F. mesomeli forest hard lateral ridges 1-1.2 m.
 O. sandy banks of a waterhole. 50-70 cm.

Herbs.

18881. *Polygon.*

84. *Stroph.*

85. *Stylidium*

86. *Phormium*

87. *Podium?*

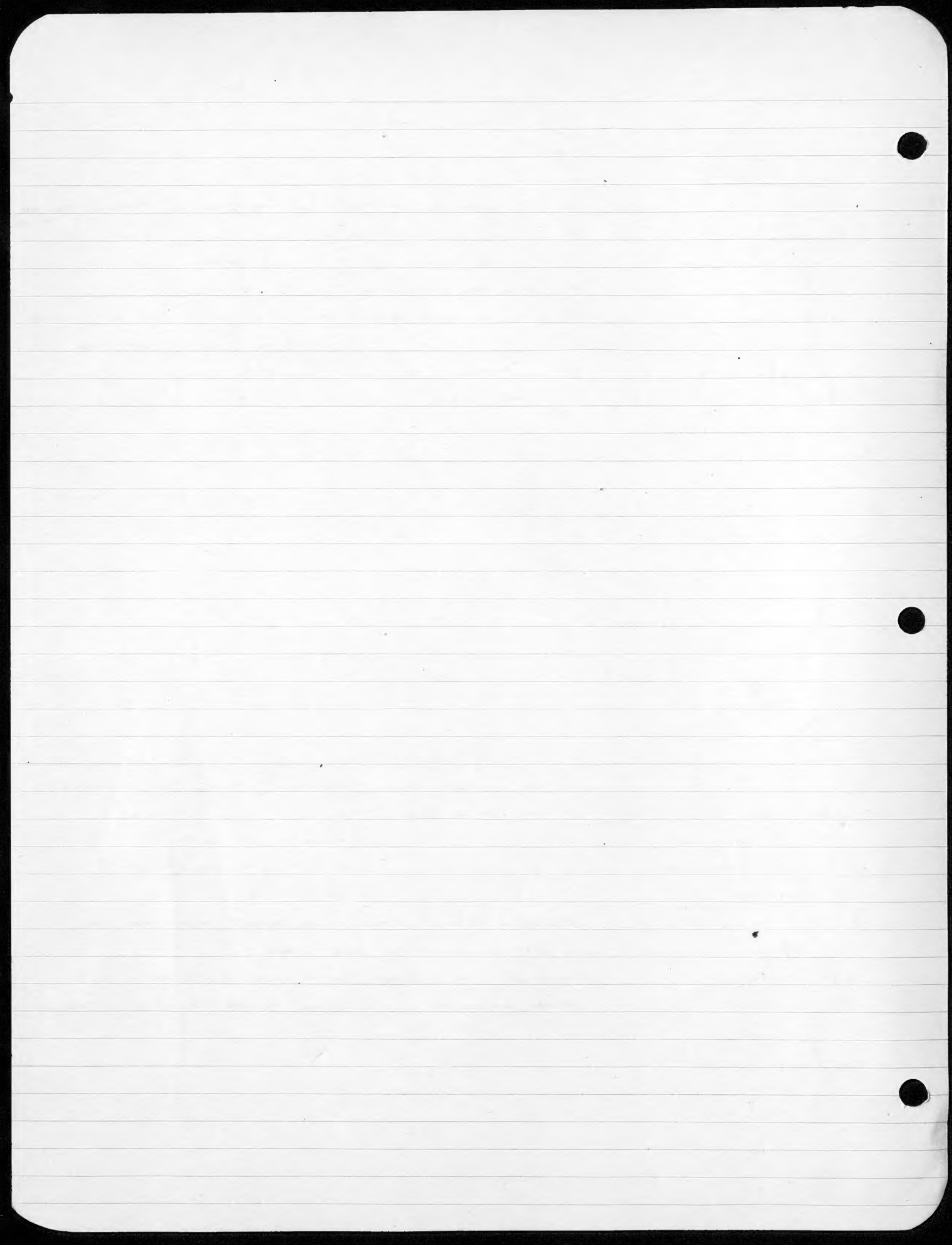
18907. *Saxif.*

~~17. *Fern.*~~

19. *Fern.*

20. ?

C. locally on sandy upper floodplain. 30-60 cm. Fls. pale purple.
 C. wet bottom flats. 20-30 cm. Fls. violet.
 C. " " " 5-15 cm. Fls. pink.
 S. " " " 10-14 cm. Fls. purple, solitary.
 C. " " " 15-25 cm. Fls. white.
 Escaped in spare ground cover under *Casearia* trees.
 30-40 cm. Fls. very pale pink.
Amorpha grass in sandy bottom forest. 80-90 cm.
 Moist grassy edges of a bottom swamp. to 90 cm. Fls. yellow.



Sardinia Rivis

Savanna forest

Epiphytes & parasites

18842. *Travancoria*

82. "

18803. *Borreria*

On *Metastoma* sp. fls. orange-red.

Leaves glaucous. Fls. orange & red.

On ground & on grasses in mesomelic forest: fls. sp. white.

Shrubs cont

18886. *Boccia*.

?? *Metastoma*

18902. *Boccia Simsii*?

Eng. in thickets in mesomelic forest of talus ridges
2-3 m. Fls. yellow, fragrant.

O. grassy banks of swamps & waterholes. 40-60 m. Fls. purple.

O. in mesomelic forest of ridges 1.5 m. Fls. pink. Fruit slender.

Ridges

18900.

12. *Blechnum*

C. moisi sandy *Leptocarpus* fls. 50-70 m.

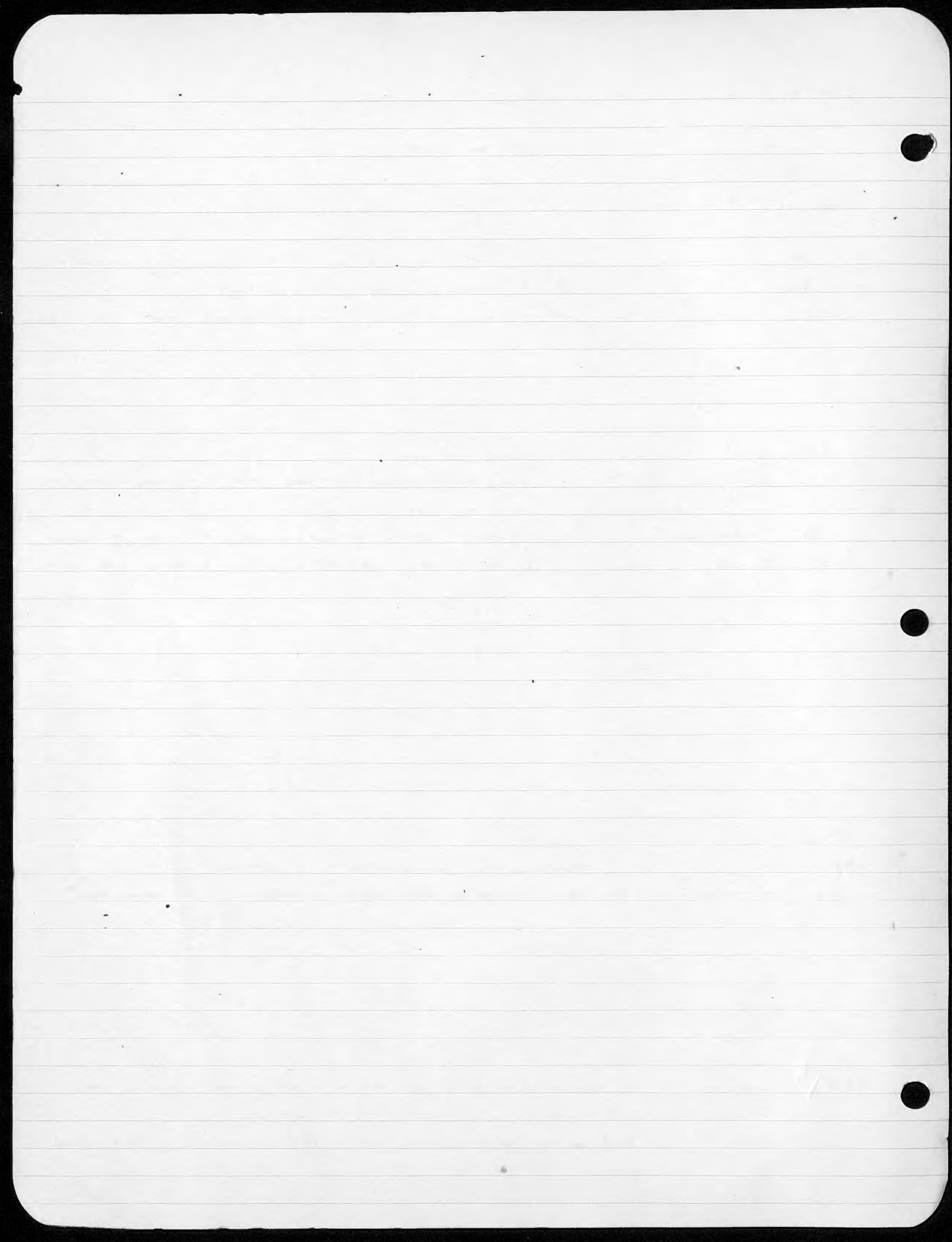
It major element in sparse tufted ground cover of wet *Leptocarpus* fls. ^{50 m}

18902^H. *Pectis*?

06. *Pectis*?

It major element of the sparse tufted ground cover of wet
Leptocarpus fls. 35-50 m. Plant grayish.

V. 19. in open tufted cover of *Leptocarpus* fls. 30 cm. Plant pale green.



Gardens River

Turkey Bush

Trees

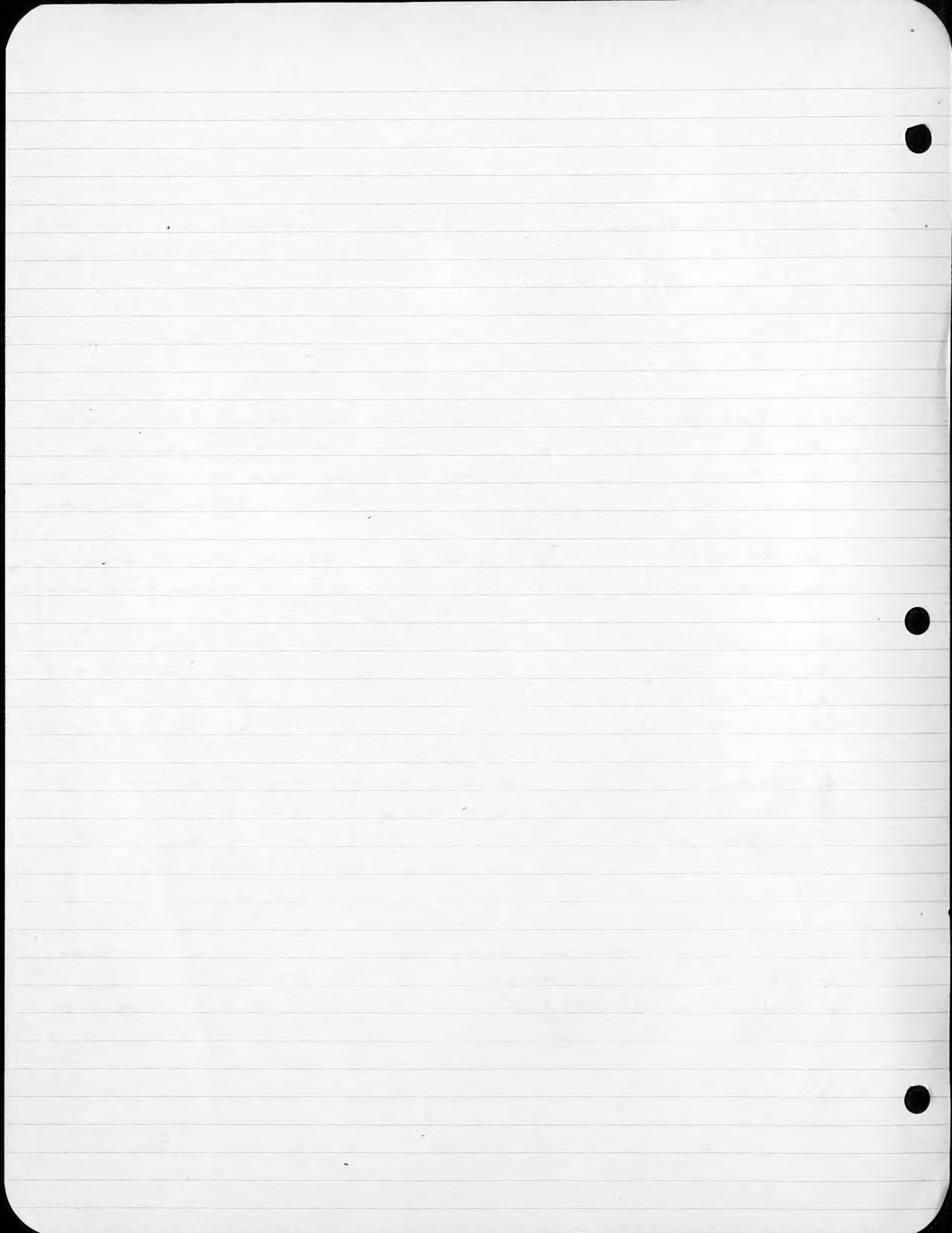
18851. *Banksia dentata*? A. in wattle scrub. Tree or shrub. 1.5-4 m. Fl. (f): Fl. fr.
 53. *Boccia* C. " " " " 2-5 m. Phyllodes glaucous.
Emvillea gibbosa (= *E. glauca*).

Shrubs

18834. *Jacksonia* C. in scrubs of low sandy ridges. 1-2 m. Fl. pink.
 35. *Rai*: V.A 20-30 cm. Fl. yellow. Petioles scarious.
 36. *Fungia* P. in scrubby veg. of sandy ridges. 40-60 cm. Fl. pink.
 38. *Hibbertia* F. " " " " 30-50 cm. Fl. pale yellow
 (also Newcastle Bay).
 40. *Hibbertia* One example in low scrub of sandy ridges. Cliff. soil 50 cm. Fl. yellow.
 41. *Boccia* F. " " " " 70-80 cm.; 100 cm to subprostrate
 habit. Fl. whitish.
 43. *Gompholobium* A. in low growth on sandy ridges. ± 80 cm. Fl. yellow
 44. like *Gompholobium* S. in scrubs " " " " 30-40 cm. Fl. yellow (sterile
 0.5)
 47. *Hibbertia* One example low " " " " 80 cm. Fl. yellow. Lower wood.
 48. *Morinda reticulata* Widely scattered scrubs " " 40-60 cm. Fl. wh. (buds wh. above
 pale green below).
 49. *Kilic*. C. in scrubs of poor sandy ridges. 50-100 cm. Fl. wh.
 52. *Euphorb.* C. in wattle scrub. Erect in dark gr. clumps 1.5-3 m.
 56. *Gompholobium* S. " " " " 80-100 cm. Erect, slender. Fl. yellow.
 68. *umb.* S. sandy ridges ± 1 m. Fl. reddish or green

Herbs

18837. O. in scrubby growth of sandy ridges. 40-50 cm. Fl. pr. white.
 39. *Peckhamia* S. in low " " " " Fl. wh.
 46. *Haemodorum* F. in open places " " Fl. red. (Generally sterile).



Gardens River

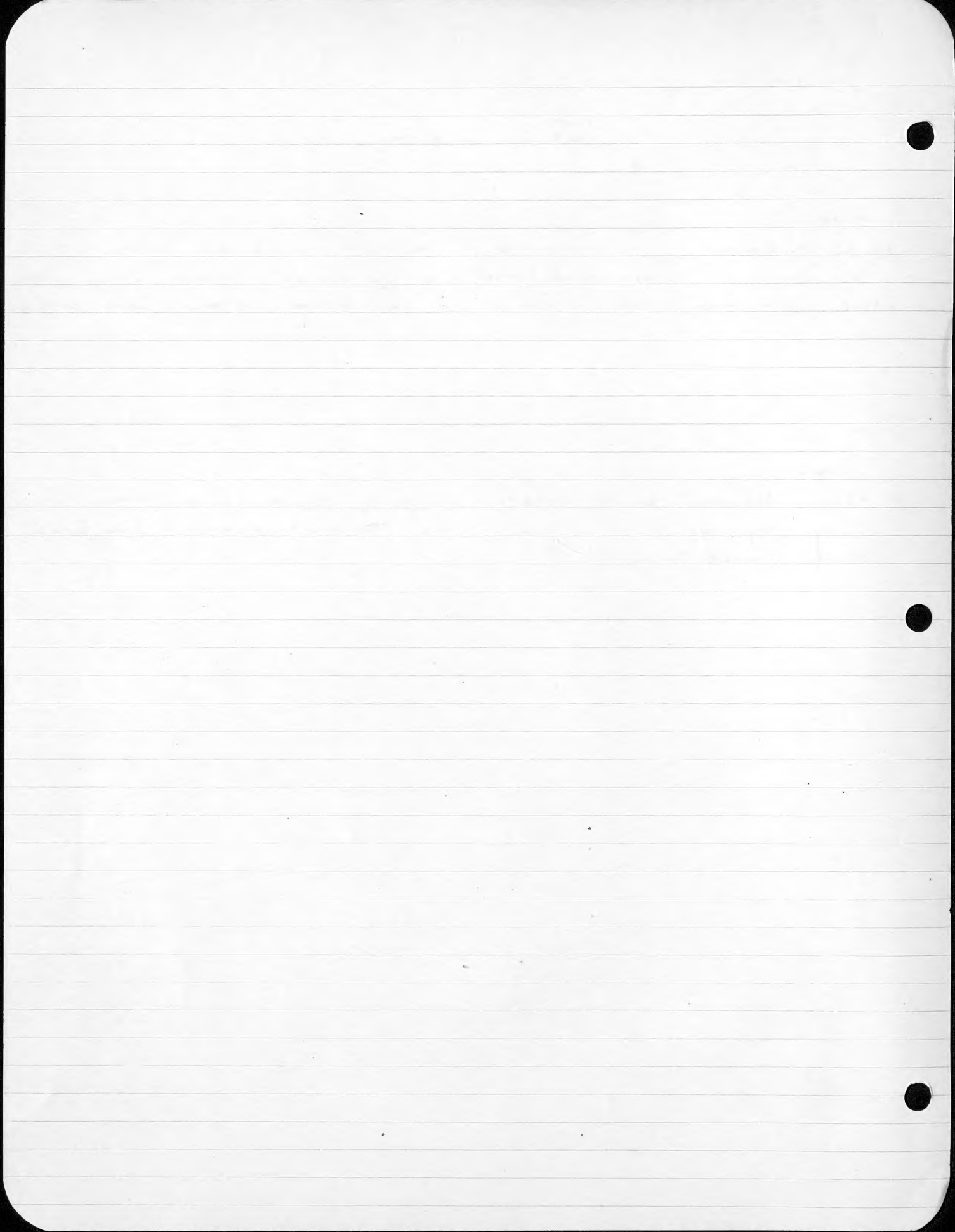
Black leather scrub.

Trees

18833. *Dodonaea*. C. tree or shrub 5-6 m. (also *Handbergia* Bk. & Newcastle Bay.)
76. "Metrosideros" (a *Leptospermum fabricae*?). One of chief dominants. (Fls. yellow - just opening) 5-8 m.
18821. *Leptospermum fabricae*. Chief sp. of the scrub. 5-10 m. Profusion of yellow fls. = 18876

Shrubs

18832. *Epania*. C. Big leaved sp. of Newcastle Bay & Cook Bk. 2-3 m. Fls. white.
59. *Phyllostoma*. O. grassy banks of swamps & waterholes. 40-60 cm. Fls. purple.
18502. *Racine of Simsi*.



Sardine River

River banks

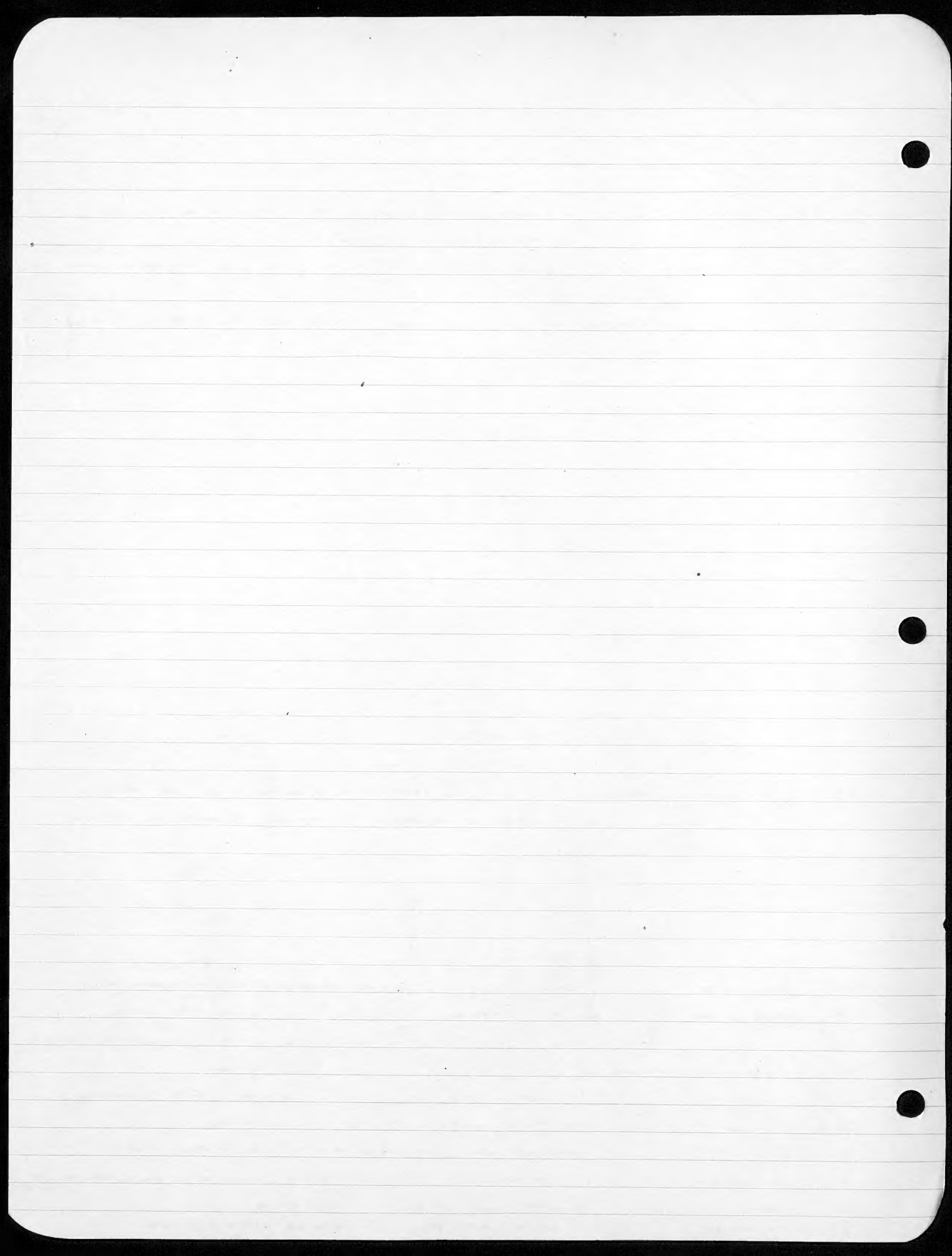
18877. *Fragaria*? Banks of loose sand on river edges. 5m. Low spreading habit. Pink.
78. *Diibulcia* Scattered on loose sand. Stems 1m. Fls. yellow. Leaves br. floccose below.
79. *Thymus oligandrus*. P. on loose sand of floodbanks. Tree 6-7m. Fls. white.

Water holes

18898. *Eriocaulon retaceum*? Erag. in shallows of a coconut pond. All but upper part of peduncles submerged. Fls. white.

Shades

18905. *Eriocaulon*. O. muddy soil of a seasonal marsh. 25-40m. Heads white.
08. *Utricularia*. C. " edges " " 10-25m. Fls. yellow
09. " " " " " 10-30m. Fls. yellow, lvs. reddish below
10. *Lycopodium complanatum*. P. " " " " 20-40m.
11. *Polypodium*. C. rocky margins " " 5-1m. Moss, scrambling.
12. *Bromus*. Lvs. grassy edge " " Fls. wh.
15. ? Scattered wet grassy edges " " Fls. wh. later yellow
16. *Dianella*. F. moist " " 80-100m. Social in groups. Distribution. Fls. yellow
17. *Ruellia*. P. wet sandy edges. 60-70m.
18. *Utricularia*. Local on muddy edges - Fls. white, yellow & purple.



Gardine River

Tanamore Lagoon

Open sandy margins

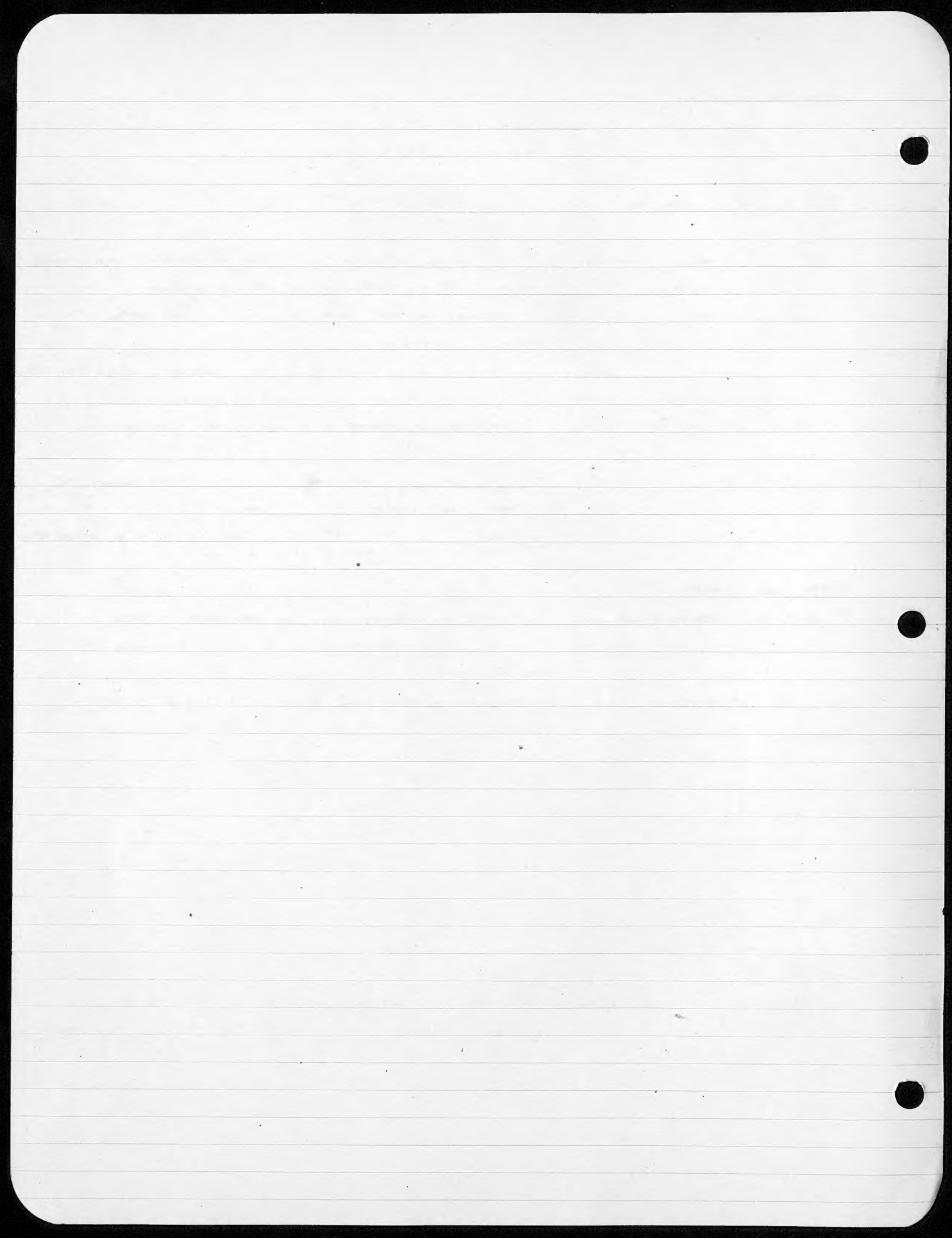
18850. *Nepenthes mirabilis*. P. 30-40 cm. Pitcher yr., mottled red outside, purple inside.
 55. *Burmannia* Base. Fl. tube reddish-pink, lobes pale pink.
 58. *Brosna* Scattered on wet margins (sandy). Plant reddish. Fl. pink to reddish.
 59. *Scleria* S. on wet open sand ± 25 cm. Spikelets blackish. Roots red.
 60. *Utricularia* S. " " " 2-8 cm. Fl. purple.
 61 " " C. on small accumulations of peat on wet open margins. Fl. yellow & red. 3-7 cm.
 62. " S. on wet sandy margins. 6-17 cm. Fl. wh., ligule yellow & purple.
 63. " Small social groups " " " 2-6 cm. Fl. " " " "
 64. " C. locally " " " 12-30 cm. Fl. yellow; lvs. reddish below.
 65. ? F. wet open sandy margins. ± 20 cm. Fl. blue.

Marginal shallows

18854. *Metelouca* Cav. var. Forming an amphibious scrub in shallows with *Alganis* & *Saknia*. 2-3 m. Fl. greenish. Papyrus whitish bank
 57. *Utricularia* C. in water shallows. 6-15 cm. Fl. purple & gold.

Open sandy margins

18866. *Thyptomena oligandra*. A major element in low scrub on wet soil. 50-100 cm.
 67. *Alganis* Chief constituent " " " " 1-1.5 m. Compact & bushy.



Red Island Point

18924. *Cycas*.

(2 mi. SE). Grouped in s.f. of volcanic ridges. To 2.5 m.

Rain forest of sandy coast

18925. *Brodiaea*.

Slender tree 7 m. Strong wh.-fls.

26. *Ficus*

C. tree ± 20 m. Large spreading canopy fls.

29. *Pongamia pinnata*

C. " 15-16 m. Fls. br.-purple.

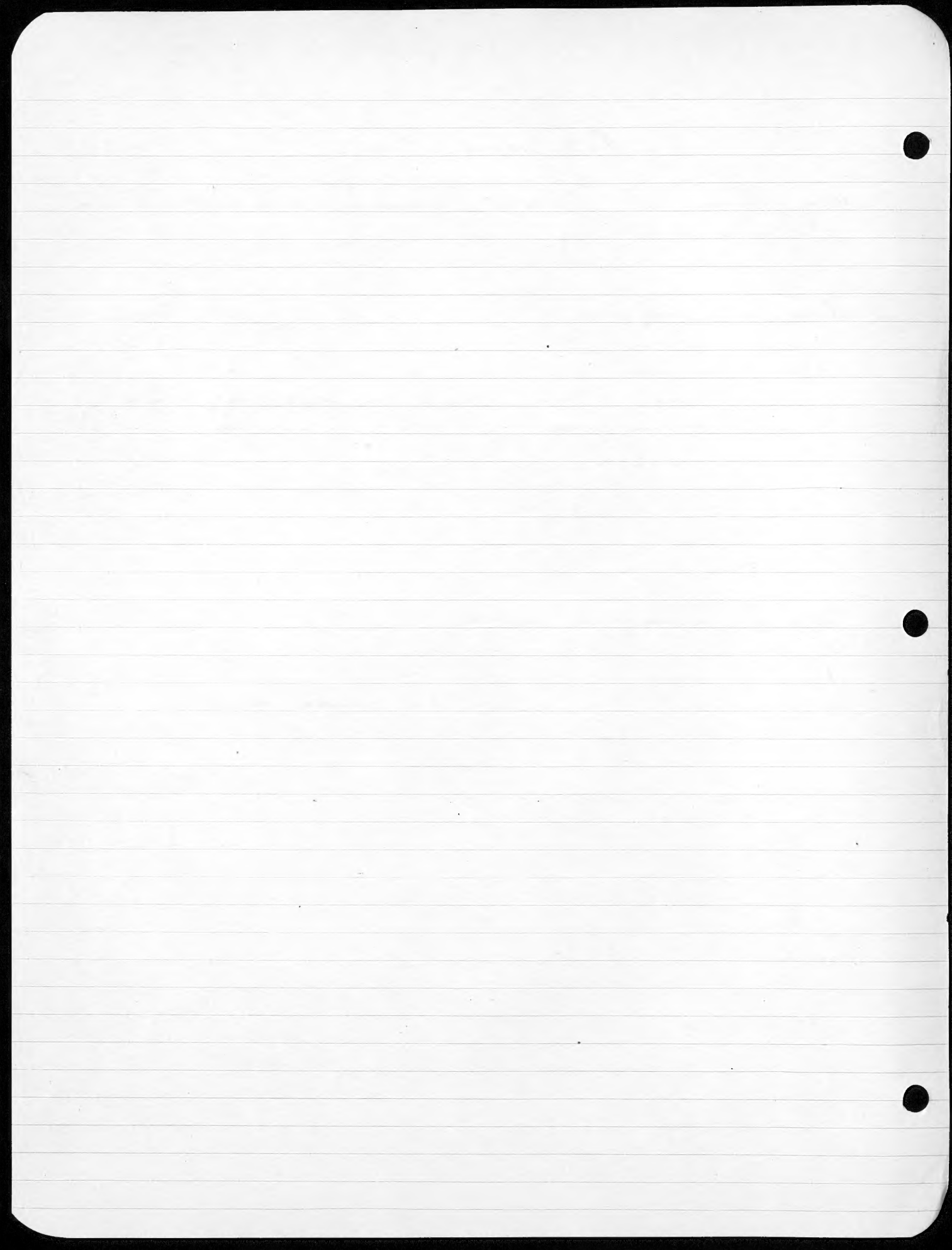
Wooded savanna forest near coast

18928. *Santalum*

C. tree 6-8 m.

30. *Albizia*

C. tree 6-8 m. Branches drooping.



Portland Roads

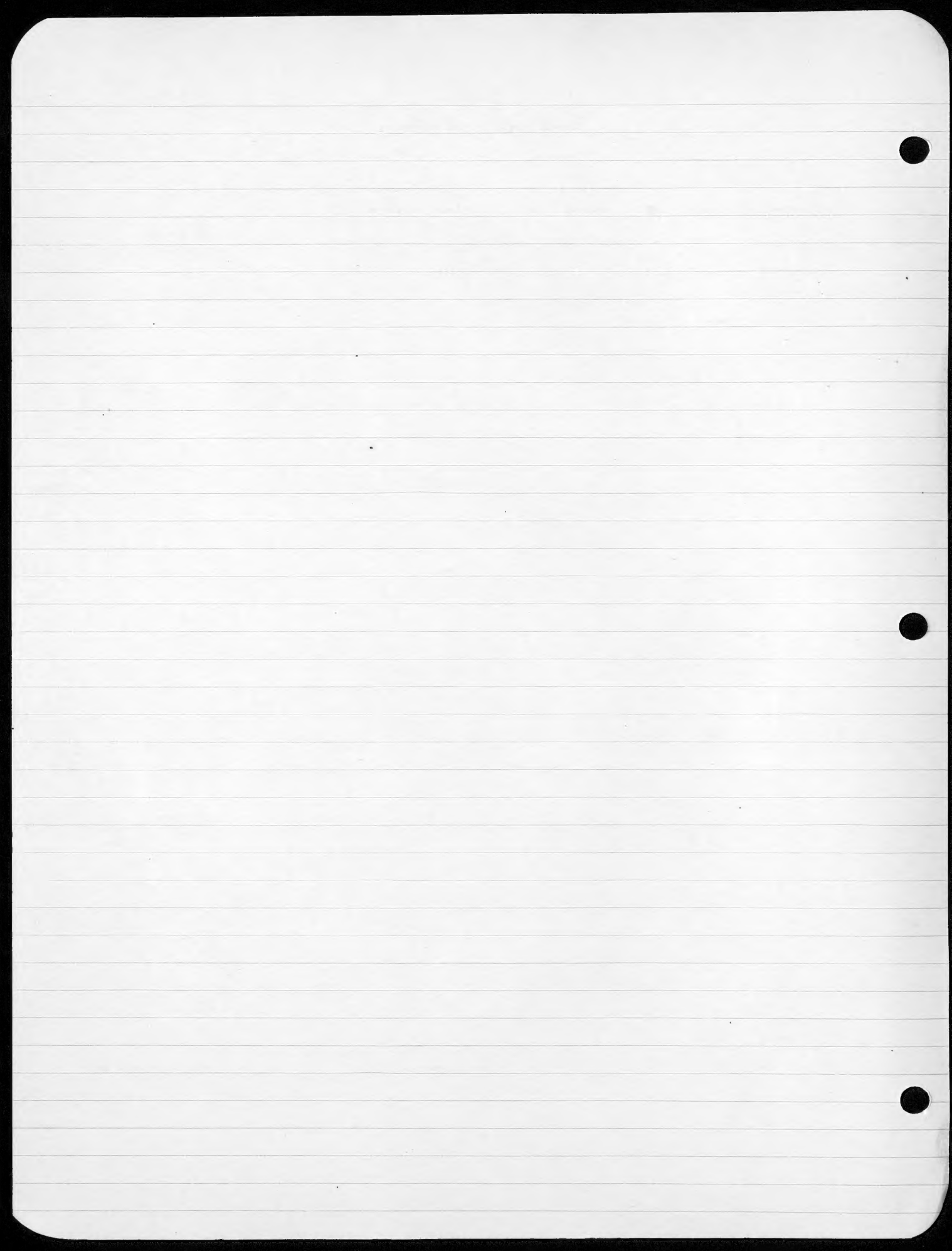
Rain forest of gullies on Skylen Hills

Bruce coast rain forest:

Savanna forest

± Open rocky slopes of Skylen Hills.

Turkey bush



Portland Roads

Rain forest of gullies on Stylen Hills

Trees

19010. *Truma*.

~~H. *Truma*~~

C. in bushy growth on hills. Tree a shrub 3-4 m.

Shrubs

19011. *Lycopium*.

Bushy growth on granite hills. 3-4 m. Large shrub, weak scandent habit.

19. *Hecomet?*

" " " 4 m. Fl. wh. (also behind mangroves).

19. *Phytomyces*

" " " 2 m. Shy wh. fls.

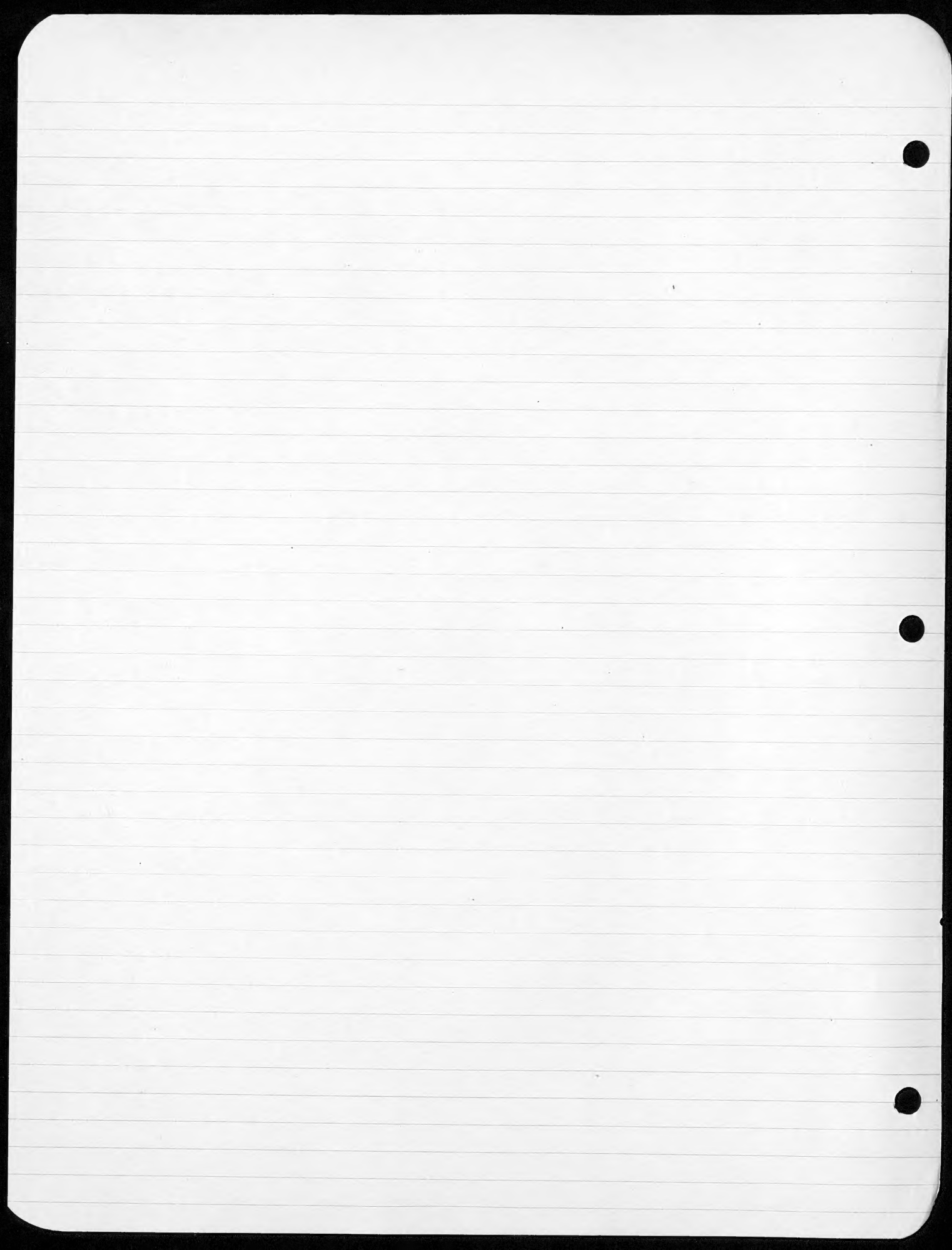
33. *Phalera*

Undergrowth of RF on granite hills. ± 1 m. Shy wh. fls.

Vines

18938. *Canavalia*.

C. in bushy forest. 3-6 m. (vine) Fls. purplish-pink. Fls.



Portland Rocks

18957. Epac.

Turkey Bush
Forming small patches of scrub in savanna forest of
sandy granitic ridges. Shrub 2-3m. Fl. wh. ^{leaves} _{10x.}

Bristly Coast-rain forest

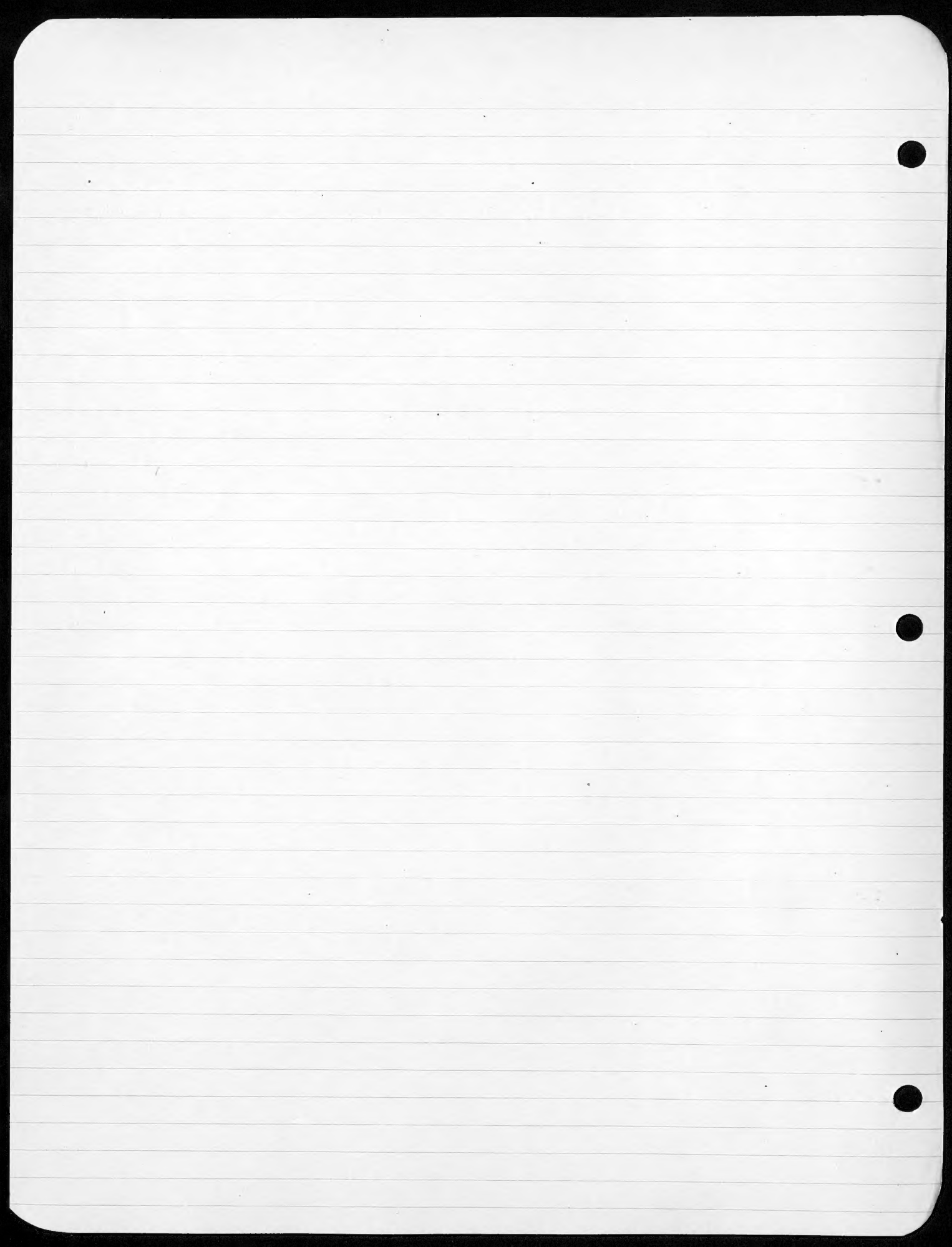
19014. Sapot.

Tree 15m x 30cm. Fl. buds only. Rough gray bark.

19015. *Asparagus racemosus*. C. in bristly forest close behind ~~the~~ mangroves. Tree
2-3m. Fl. wh. Fr. red.

19017. *Panicum*

P. bristly granitic close behind mangroves. Tree 6-8m.



Portland Rocks

Savanna forest

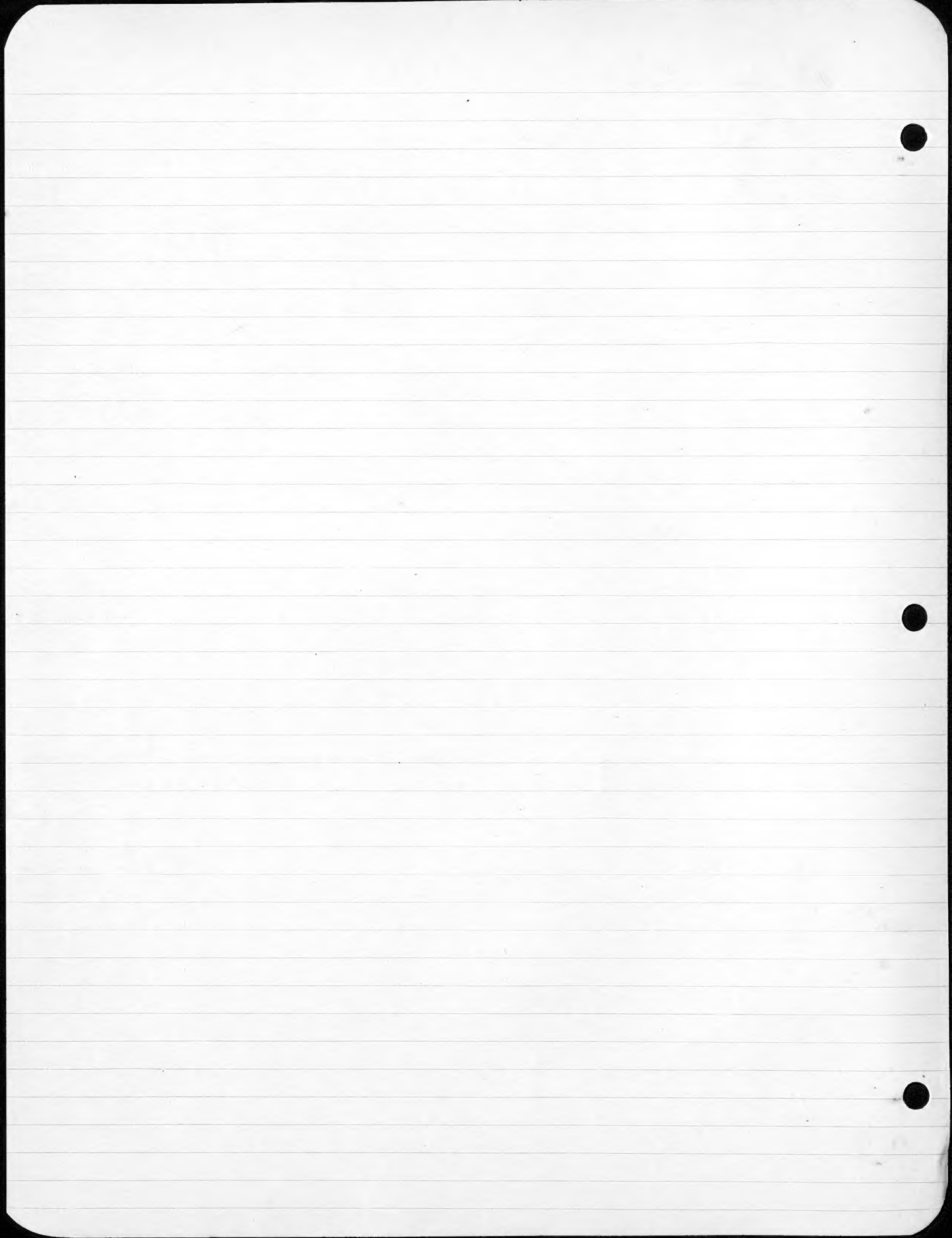
- Trees *Eucalyptus tereticornis*. Fl. about edges of gum forest. Largest & straightest eucalypt here in Portland Rocks area.
18952. *Eucalyptus* (Woodwood). Clear tree of SF on well drained granite ridges (20 m). 10-15 m x 25-40 cm. Fls. cream. Outer bark slightly reddish.
58. *Plakoa* f. assoc. of Mel. leuc. var. on sandy flats. Tree 5-5m. up to 20 cm. dia. Fls. yell-yr.
59. *Smilax stricta* (Woodwood). O. in Woodwood SF on sandy granite ridges. 6-7 m. fls cream.
64. *Eucalyptus* C. SF. sandy low ridges & hollows. 15-18 m. x 25-30 cm. Fls. cream. Bark grey-br. Leaves glauc. below. (Woodwood).
68. *Petalostigma quadrilocularis* C. G. Woodwood SF ^{sandy} granite ridges. 5-8 m. Fls. yell-yr.
69. " " C. with 18958. 3-8 m. Bushy shrubby habit. Leaves shining above. Fls. orange-yellow.
76. *Metaleuca leuca* var. S. Woodwood SF sandy granite ridges. 10-12 m x 15-20 cm. Fls. pale red. Bark pale grey, papery. Young leaves glauc.
78. *Metaleuca* aff. *leuca*. Edging a sandy water course in SF. 4-6 m. Fls. pale yell-green.
91. *Eucalyptus* (Ray). Chief tree of open SF on stony granite ridges. 10-15 m. Branches & petioles bright yell-yr.; leaves ± glaucous. Fls. ?

Shrubs

18953. *Euph.* C. in SF of sandy granite ridges. ± 60 cm. ^{Many} ~~Weak stems~~ (many)
73. *Gnawia* S. Woodwood SF granite ridges. ± 1 m. Fls. only.
77. *Hibiscus* f. near streams. ± 1 m. Fls. wh. with purple throat.
80. *Phyllanthus* S. in SF. 40-60 cm.
19018. *Tephrosia*. Forming low shrubs on open sandy flats close behind mangroves. ± 1.5 m. Fls. dark purple.
34. *Helicteres* P. in SF of quartz ridges. 1.5-2 m. Fls. purple. Very slender & sparsely branched. (Parker St.).
36. *Euph.* Local in SF of quartz ridges (Parker St.). 30-50 cm. Leaves ^{very} yr.

Epiphytes & parasites

19008. *Coronilla grandibracteata*? On Mel. leuc. Fls. & bracts green.
16. *Coronilla* On *Tanacetum* sp. Fls. bright orange red.



Portland Rocks

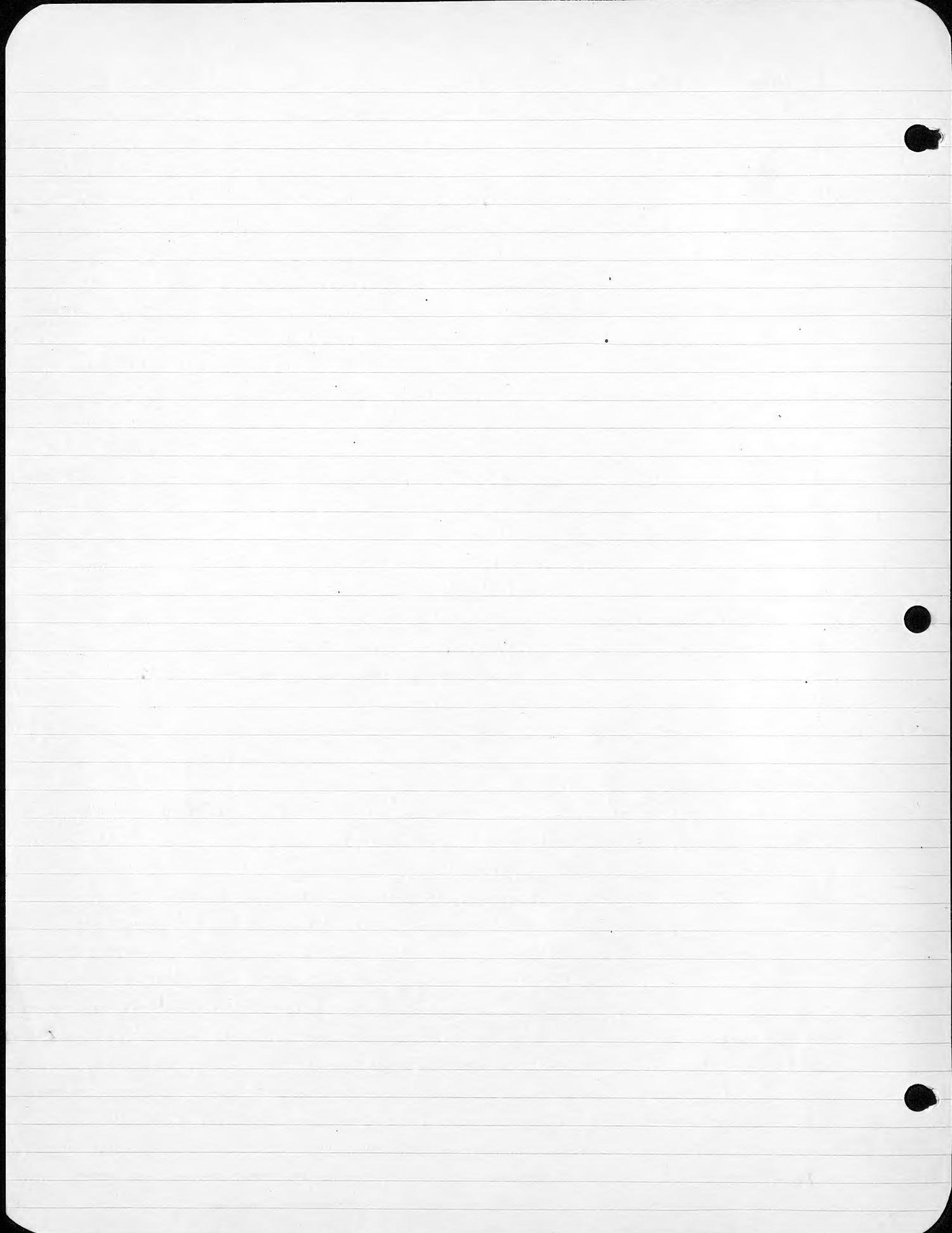
Savanna forest

Herbs

18860. <i>Makloubuzia</i>	O. St. sandy granite ridges. 30cm. Fl. blue. ^{ascending} Spreading?
82. <i>Tonidium</i>	F. " " " 30-50 cm. Fl. lavender
63. <i>Bommal.</i>	O. " " " 30-60cm Fl. yellow.
66. <i>Bommal?</i>	F. moist sandy flats. 20-40cm Fl. lavender.
72. <i>Polygal.</i>	S. in St. of granite ridges. 15-40cm. Wings 8x; petals pale pink.
78. <i>Xyris</i>	Scattered on a moist leather fls. 50-60cm. Fl. yellow.
82. ?	Spreading on muddy ground of a wet leather fls. Fl. pink. fr. red.
83. ?	Erg. wet sandy soil " " " 3-4 cm.
84. <i>Triscantia</i>	" " " " " 12-16cm. Heads pale brown
87. <i>Scroph.</i>	" " " " " 10-20cm. Ascending, fleshy.
88. <i>Utricularia</i>	VIA. " " " " " 20-30cm. Fl. pale yellow
89. <i>Zephronia</i>	C. Gay St. stony granite ridges. 60-80cm. Fl. pink
96. <i>Comp.</i>	C. " " " " 40-50cm. Fl. yellow <i>Plant. aromatica</i>
95. <i>Comp.</i>	Erg. on otherwise bare sandy soil in St. \pm 15 cm. Fl. wh.
99. <i>Leg.</i>	C. locally in St. <i>Subpereskia</i> 20cm. Fl. yellow.
19001. <i>Polygal.</i>	S. St. granite ridges. 30-60cm Petals pinkish, sepals green.
03. <i>Trachonema</i>	O. " sandy " " 40-60cm. Fl. gr.
05. <i>Comp.</i>	Trailing gray sandy fls behind bush. Fls. deep rose.
35. <i>Callitriche?</i>	O. S.f. of quartz ridges. 25-30cm. Fl. wh.

Grasses

18847. <i>Helinopogon contortus insignis</i>	Scattered in Woodwood St. of granite ridges. Height: 1.5-2 m.
48.	C. locally granite ridges. 30-50 cm. Spikes silvery.
49.	C. thick ground " " 30-45 cm.
50.	C. Woodwood St. " " 60-100 cm.
53.	Often chief element of ground cover of St. of granite sandy ridges. \pm 80 cm.
56.	Erg. locally " " " 20-30 cm. Heads, spreading
61.	C. locally thick ground Woodwood St. 20-30. Spikes silvery-wh.
65. <i>Sorghum</i>	Erg. locally on moist sandy low ridges. 80-100 cm. Leaves <i>triviale</i>
67. <i>Aristida</i>	A. Woodwood St. sandy granite ridges. May weak sparsely cultivated.
75. <i>Pottentilla?</i>	O. " " " " 1.5-1.8 m. Fls. few small white.
70. <i>Aristida</i>	Erg. \pm covering hard open ground on ridges. Heads reclining.
94. <i>Helinopogon contortus</i>	D. on treeless granite hills of coast, \pm on creek flats in St. 1 m.
97. <i>Aristida</i>	Principal grass on poor sandy fls. thick littered with leaves. 60-70 cm. Tufts of few numerous culms.



Portland Rocks

Savanna forest

Ridges

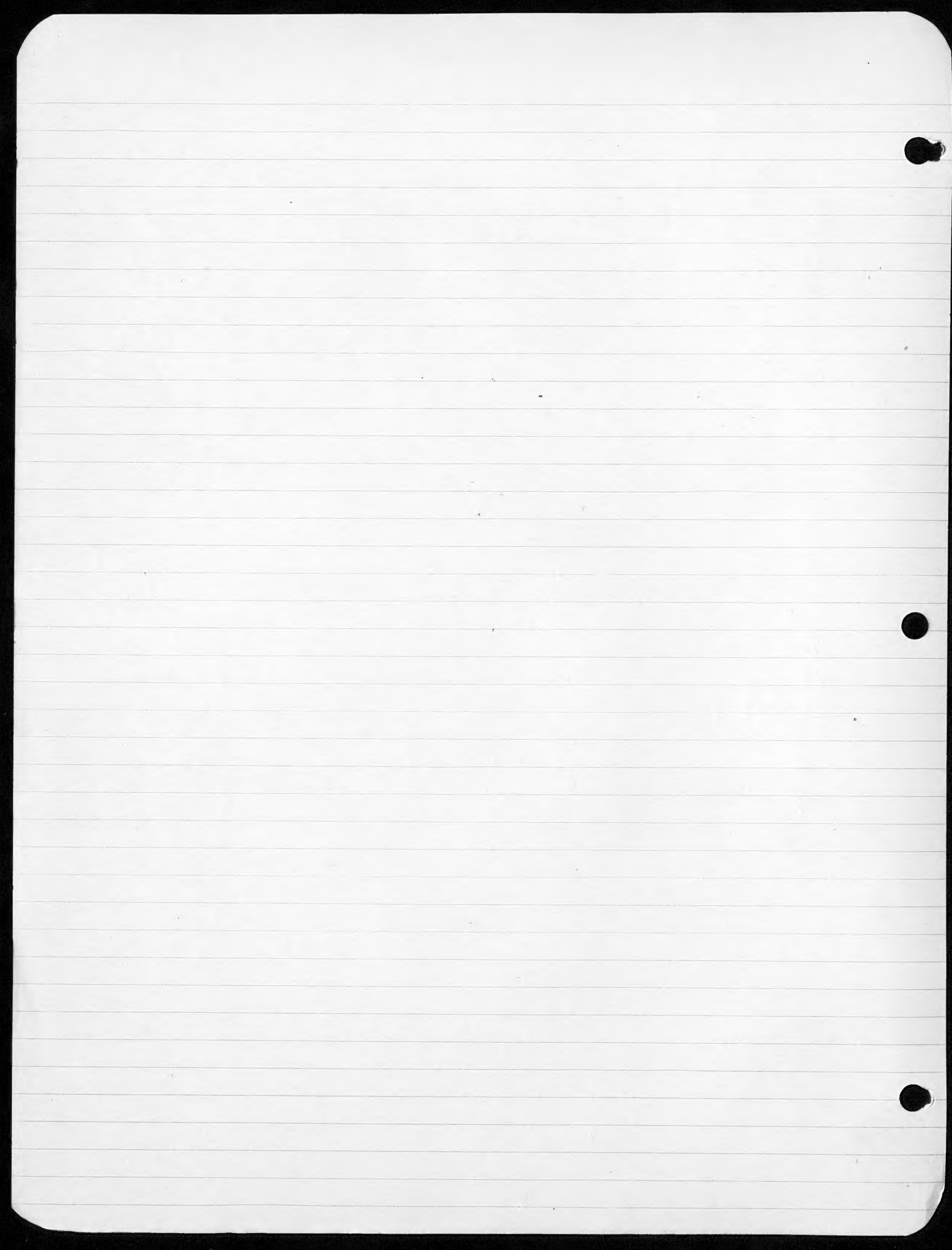
- 18951. *Limbristylis* One left; bloodwood SF of granite ridges. 70 cm.
- 81. *Furcraea* V.A. on wet limestone flats. 40-70 cm. Siff. fls.
- 85. *Cyperus* Freq. wet sandy soil " " 10-20 cm. Pale green
- 86. " " " " " 20 cm.
- 89. *Scleria* Freq. ridges gallery woods (flooded ground) 1 m.
- 96. *Cladium* O. poor sandy flats thinly timbered with *Cecropia*. 1.50 m.

Trunks cont.

- 18958. *Mimosa* ephemeral spr. on thin limestone limestone flats. 30-70 cm.
- 19002. *Eragrostis* C. sandy soil. Few weak culms 1.30 m. long.
- 04. *Anthistinea frondosa* Freq. locally on sandy flats behind beach. 80-100 cm. Few small culms.
- 06. A. sandy granite ridges. 60-70 cm.
- 07. *Panicum* Covering parts of a sandy limestone flat. 50-70 cm.
- 32. *Pollinia?* Freq. locally in SF. just in. 1.5 m. Fruit hairy leaf sheath.

Trunk cont.

- 19000. *Metacanea* Cav. var. F. 60y SF stony granite ridges. 8-10 m x 10-15 cm. Fls. pale green.
- Leaves stiff, grey-green. Bark laminated grey fibrous.



Portland Roads

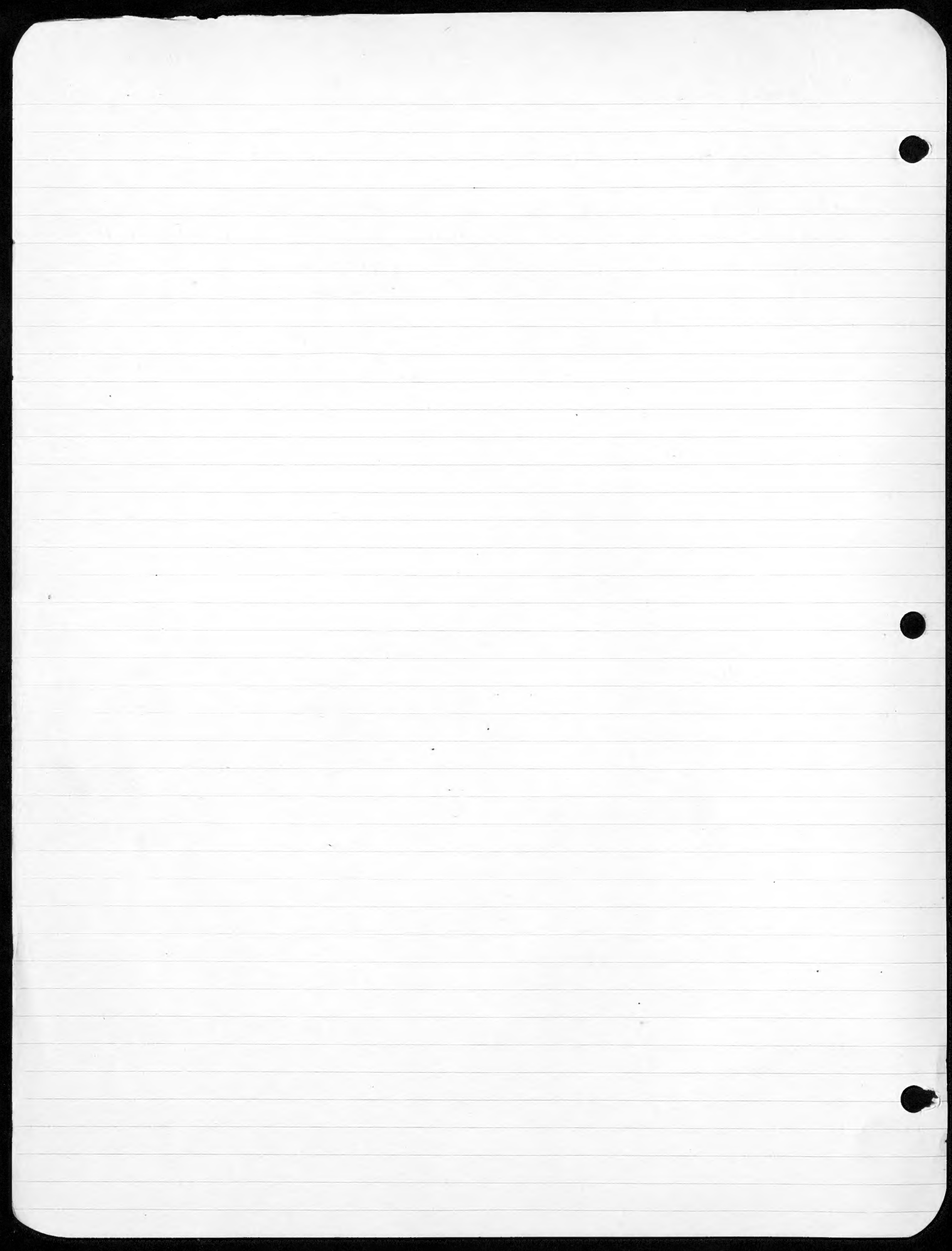
± Open rocky slopes of Skyler Hills

Woody plants

18741. *Lepidospermum fabricii*. Scattered on ^{grass} granite ~~cross~~ exposed to SE. Windy. Shrub 1-2 m. Fls. yellow.
43. *Tanacetum* (one example. tree 4 m. Fls. yellow)
44. *Erwinia glauca* P. granite hillside. tree 3-5 m. Fls. wh. Young leaves brownish, old leaves grey.
19009. *Teucrium* V.A. on grassy almost treeless hills. Shrub 1.5 m. Leaves greyish

Grasses & herbs

18986. *Crotalaria* S. amongst grass on granite slopes. 20-25 cm. Fls. yellow
37. *Lepum* C. " " " vine. 80 cm. Fls. yellow
- ~~38. *Gnaphalium*~~
39. *Lil.* F. " " " 60-70 cm. Fls. yellow.
40. *Rub.* F. " " " 30-50 cm. Wh. or bluish fls.
42. *Aristida* C. granite slopes. Wh. or, reclining
45. *Poa* Proved under rocks. 25 cm.
46. ? Herb. on thin grass patches. 3-5 cm. Fls. cream.
94. *Heteropogon contortus* D on treeless granite hills of coast.



Iron Range Camp

Rain forest, flood plain

Rain forest, high ground

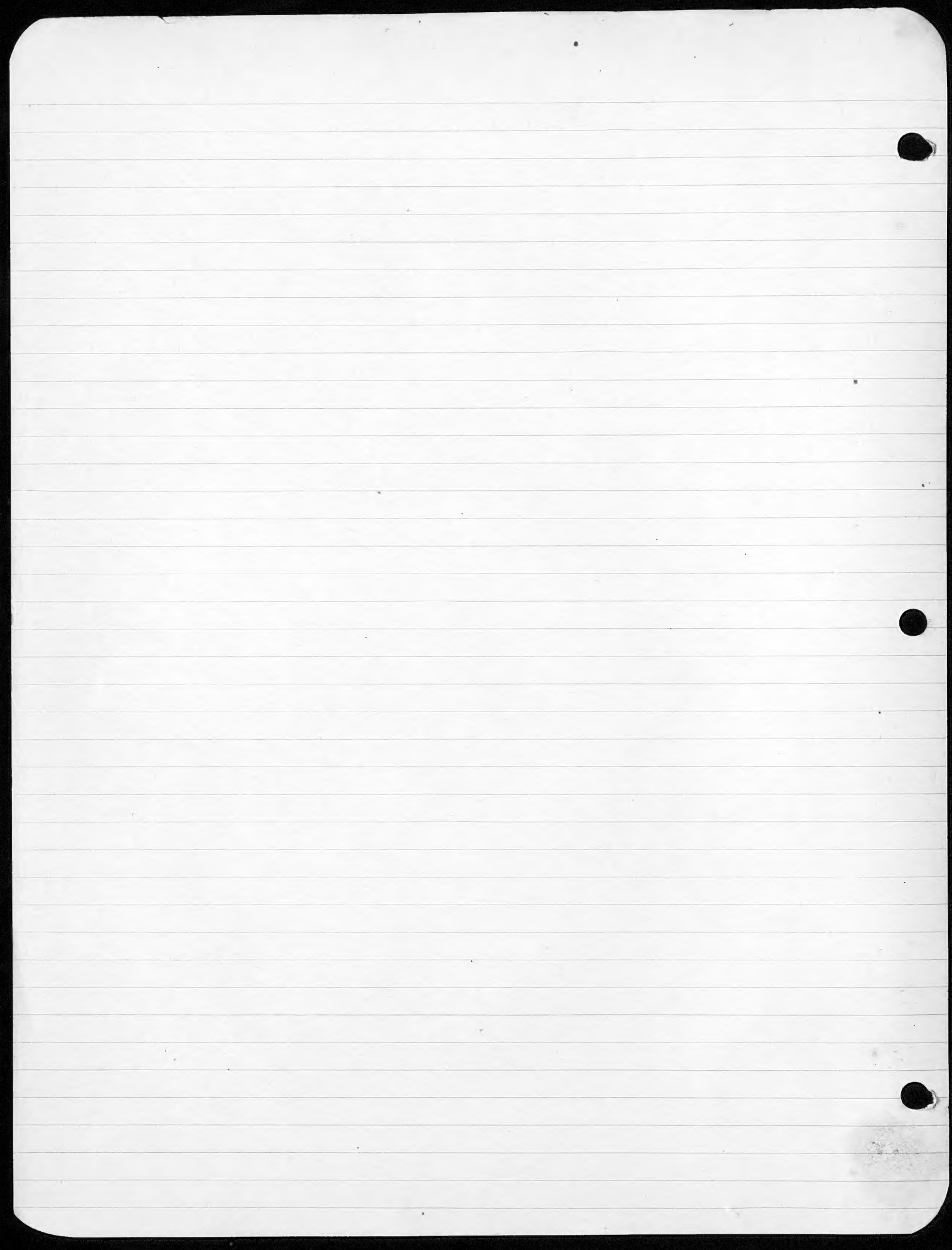
Rain forest regrowth

Rain forest marginal communities

Savanna forest

Turkey bush

Water plants



alt. ± 20 m.
River plain, & banks of
feeder streams.

Iron Range

Rain forest - flood plain

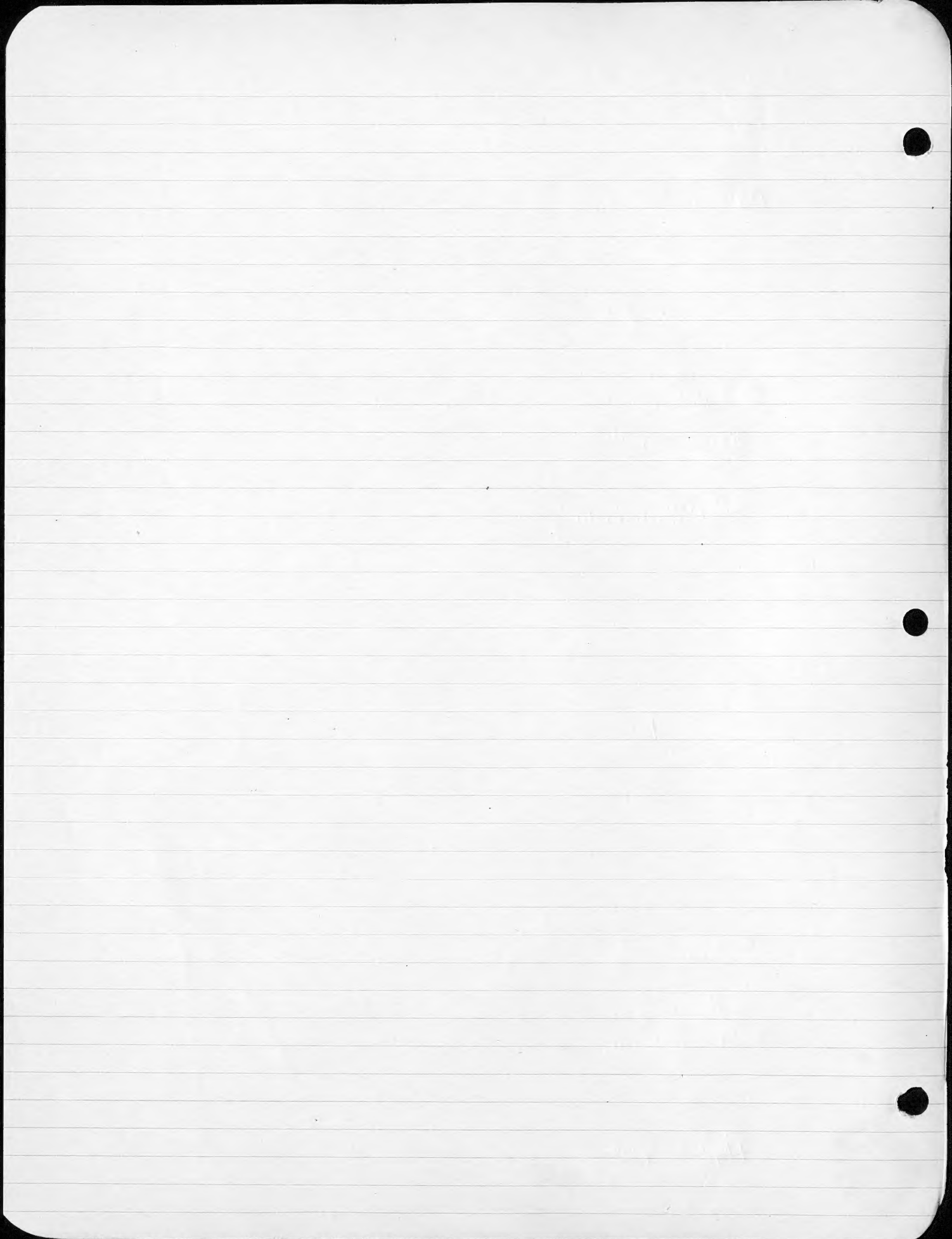
Trees

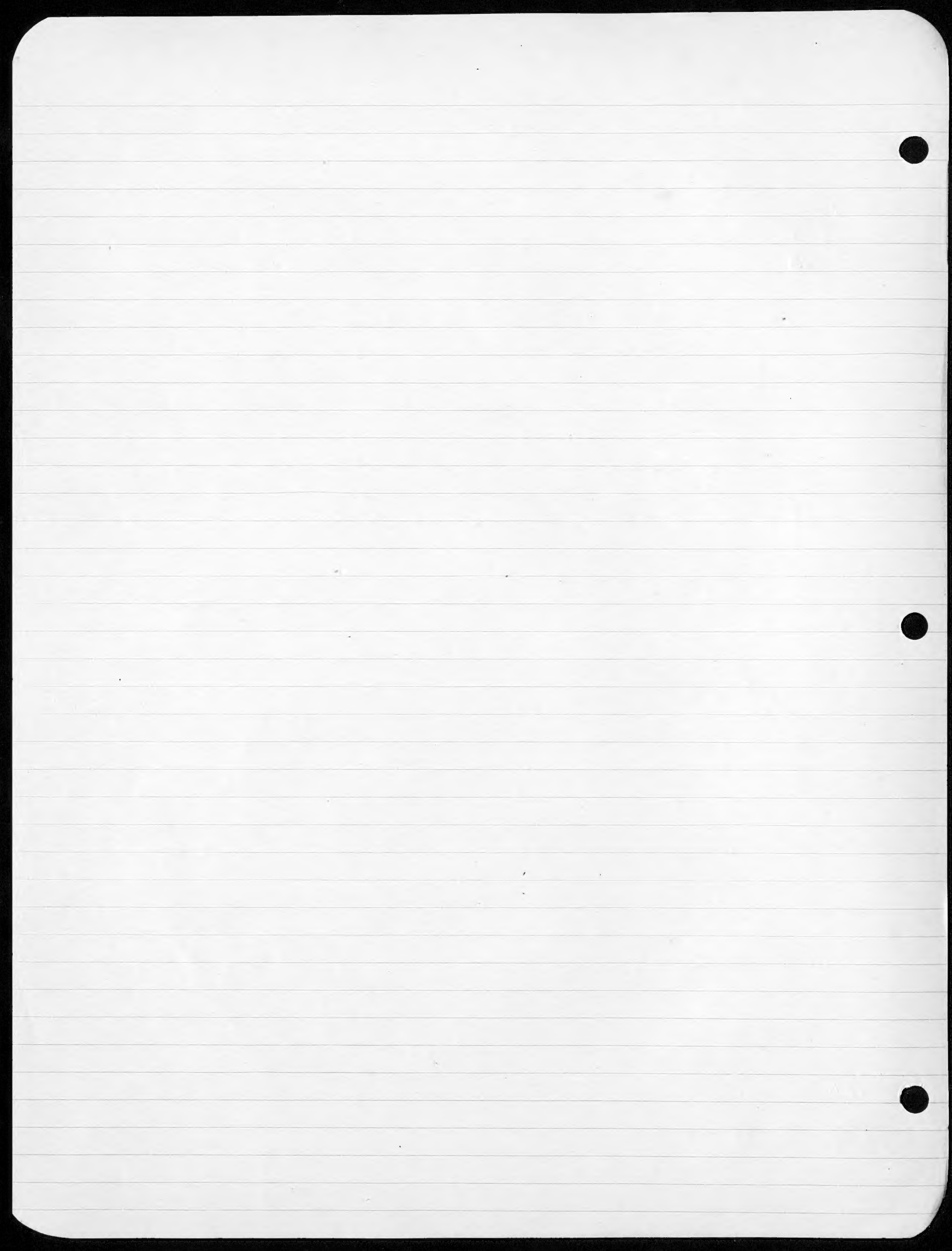
19048. *Mylaria* O. 10-12 m. Fls. yellow. Fl: ?
 19109. *Panay?* F. canopy tree to 30 m x 40 cm. Complex panicles.
 11. *Japoi?* C. lower tree of canopy layer, ± 30 m x 30 m. Fls. yr. Fl: unisexual
 14. *Paul.* O. 20-25 m x 20-25 m. Fl. buds only. Red fl. - eaten by mammals
 15. *Myristicium insipida* F. 2nd. story tree 20-30 m x up to 30 cm. Bark reddish br.
 Leaves glauc. below. Fls. ? Fl: unisexual.
~~16. *Heliconia* F. in understory~~
 19157. *Psychotria* ^{*oblongifolia*} F (lower ridges also) to 30 m x up to 60 m. Fls. wh. Fl: ?
 88. *Bumelia* ^{*Mylaria*} ~~F. in understory~~ 10 m. Fls. ? Fl: black.
 19302. *Bumelia* ^{*argentea*} O. sap milky. 12-14 m x 12-15 cm. Leaves to 80 cm. Fls. ? Fl: unisexual
 04. *Leptocarpus* 25 m x 30 cm. Fls. ? Stem unsmooth with ridges & depressions.
 19653. *Alseodaphne* ^{*medicinalis*} C. 15 m x 25 cm. Fls. wh. Fl: ?. Close to bank. Young shoots
 protected by large yr-wh. bud scales.
 59. *Garcinia* F. to 20 m x 35 cm. Fl. buds only.

19069. *Pandanus* ^{*truncatus*} T. floodbanks of streams. 6-8 m. Stiff pinkish-orange bark. Photo

Woody undergrowth

19045. *Boerh.* T. 1.5 m. One unbranched stem.
 47. *Baccharis* ^{*condyline*} ^{*canarifolia*} 80 cm. Fls. pale purple-pink. Leaf tips much recurved.
 53. *Myrtus?* Tree 1-2 m. Fls. ? Fl: unisexual
 54. *Phyllanthus* O. 1.5-2 m. Fls. ? Fl: red, fleshy, lobately compound
 19108. *Phycosmia* ^{*pentaphylla*} Tree 5 m. Fls. white.
 10. *Pithecolobium* Shrub 2 m. Fls. cream. Fl: ?
 19255. *Bombac* Forming thickets on flood plain & lower ridges. 10-12 m. See Feb. 113.
 56. " Probably a young preflowering stage of 19255.
 65. *Phyllanthus* ^{*crispus*} Tree 3 m. Fls. ? Fl: red, fleshy.
 19303. *Ruellia* ^{*lutea*} ^{*lutea*} (P. in u.g. tree a shrub 2-3 m. Fls. wh.
 17. *Lumnosia amara*. (on floodplain (fl. in yellow). Shrub about 2-3 m. Fls. wh. Large
 shiny leaves.





Iron Range

Rain forest - flood plain

Woody undergrowth cont.

19654. *Pithecolobium*

O. shrub 1.5-2 m. Fls. cream. Fr: ?

Herbaceous undergrowth

19037. *Eryopteris*

O. 50-70 cm. Rhizome short ascending.

38. Gram.

S. ascending 40-50 cm. Fls. cream

39

O. ascending 30-50 cm.

40. *Adiantum*

F. Deep woody banks of streams 40-50 cm.

56. *Pennis?*

S. 25-30 cm. (Lobelia also)

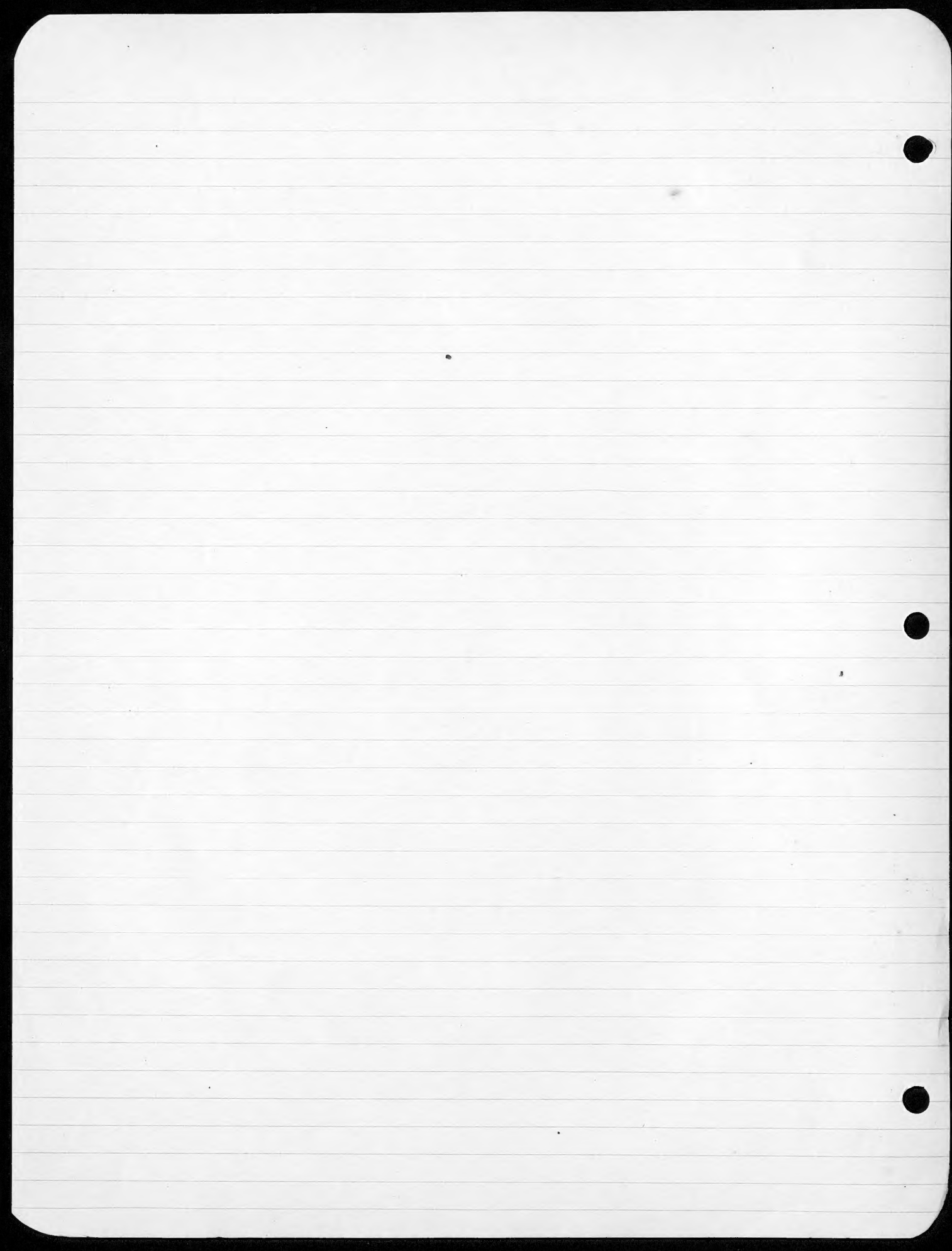
59. *Goodia?*

O. Banks of streams 30-35 cm.

68. Tub.

Ascending 30 cm. Fls. lavender.

17



Iron Range

Rain forest - high ground

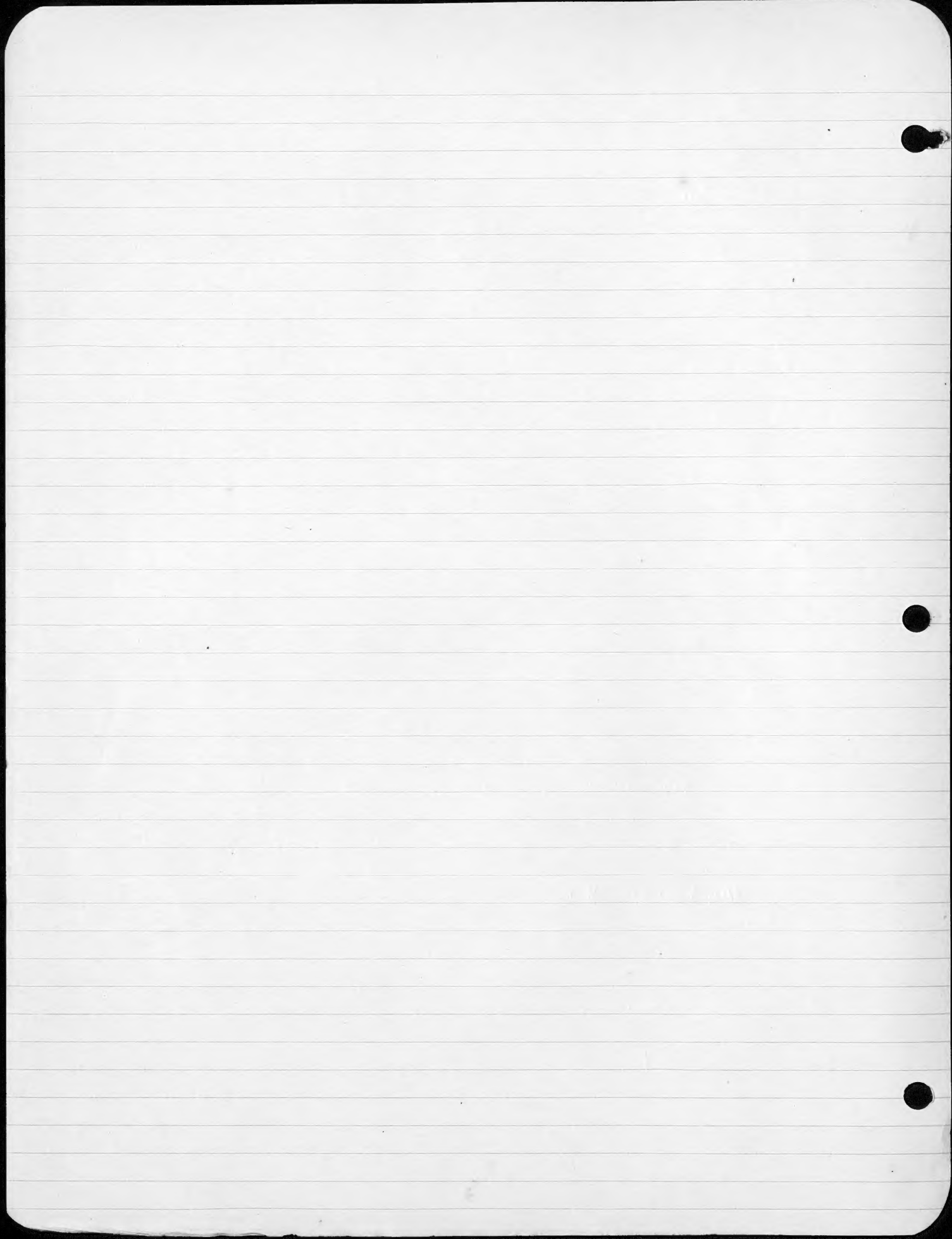
Trees, canopy

19124. *Prot-Macadamia* Lower ridges. 25m x 35m. Abundant cream fls. Fl. ?
Thick, flaky-scaly brown bark.
49. *Terminalia* Lower ridges. 30m x 35cm. Fl. ? Fl. purple. Bark grey bark.
52. *Anon.* " " " " 40-50m. Fl. ? Fl. green, aromatic " " "
99. ? Ridges. 20-25m. x up to 30m. Fl. salmon-pink. Fl. green
19200. *Tapot.* " 25m. x 35cm. Fl. ? Soft red fl. Bark grey, & fissured.
63. ? Ridges to NW. 50m tall: 25m x 35cm. Fl. cream. Fl. white
Bark grey, hard, large, extremely fissured. Wood yellow,
smelling like raw bacon.
94. *Colophyllum* Ridges. 25m x 30m. Fl. wh. Fl. ? Grey & scaly bark.
98. *Bastanoporum australe*. One of the commonest canopy trees in the r. forest. Up to
± 35m x 40m. Fl. red or yellow. Bark. Inf. lateral on smaller
branches.
19300. ? Lower ridges. 25m x 35cm. Fl. cream. Bark cream & orange fl. = # ?

Trees, subcanopy

19066. *Macleay?* Tree 20m x 20cm. Fl. cream. Rough bark black bark.
70. *Morim.* Substage large, ridge P.F. 12m x 15cm. Fl. green
19116. *Heliconia glabrescens* F. in substage. 15-18m x 12-15cm. Fl. whitish (pink in bud).
19224. *Lycop.* Gallery P.F. 12m x 25cm. Fl. ? Bark flat, green
57. *Myrsinoporum* / *Ptilosporum* Ridges. 20m x 20cm. Fl. white. Fl.
59. *Oleodendron* " 20m x 18cm. Fl. ? Fl. blackish, rays red.
66. *Mischocarpus* sp. nov. " NW. 20m x 25cm. Fl. gr. Fl. ?
76. *Stochidia* Gallery P.F. 7m x 25cm. Fl. 8 fl.
82. ? F. substage. 6-10m. Fl. gr. Fl. gr.
84. ? Ridges. 15m x 20cm. Fl. ? Fl. orange-yellow, soft, fleshy
97. *Litsea leafceana* Ridges. 20m x 25cm. Fl. green. Fl. ?

19299. *Pandanus prauclianus* C. in hollows & gullies. 10-12m. Long prostrates. see notes
19267. *Licuala ramosa* P. locally in gullies. Fan palm to 10m.
19071. *Palm Plectospenna* F. on ridges. 5-7m, 10cm: arching pinnat leaves to 180cm. Fl. red.
19159. *Archontophoenix almyrachae* Edge of Scandens' th. 16m. Large feather leaved sp.
19207. *Eulalia costata* P.P. in wet bottoms of ravines in hill forest. Up to 35m.
50. *Palm* - Local Mt. Thea 150m. Clumps to 16m. Pinnate
Hydrocharitella woodii arctiana



Iran Range

Rain forest - high ground

Woody undergrowth

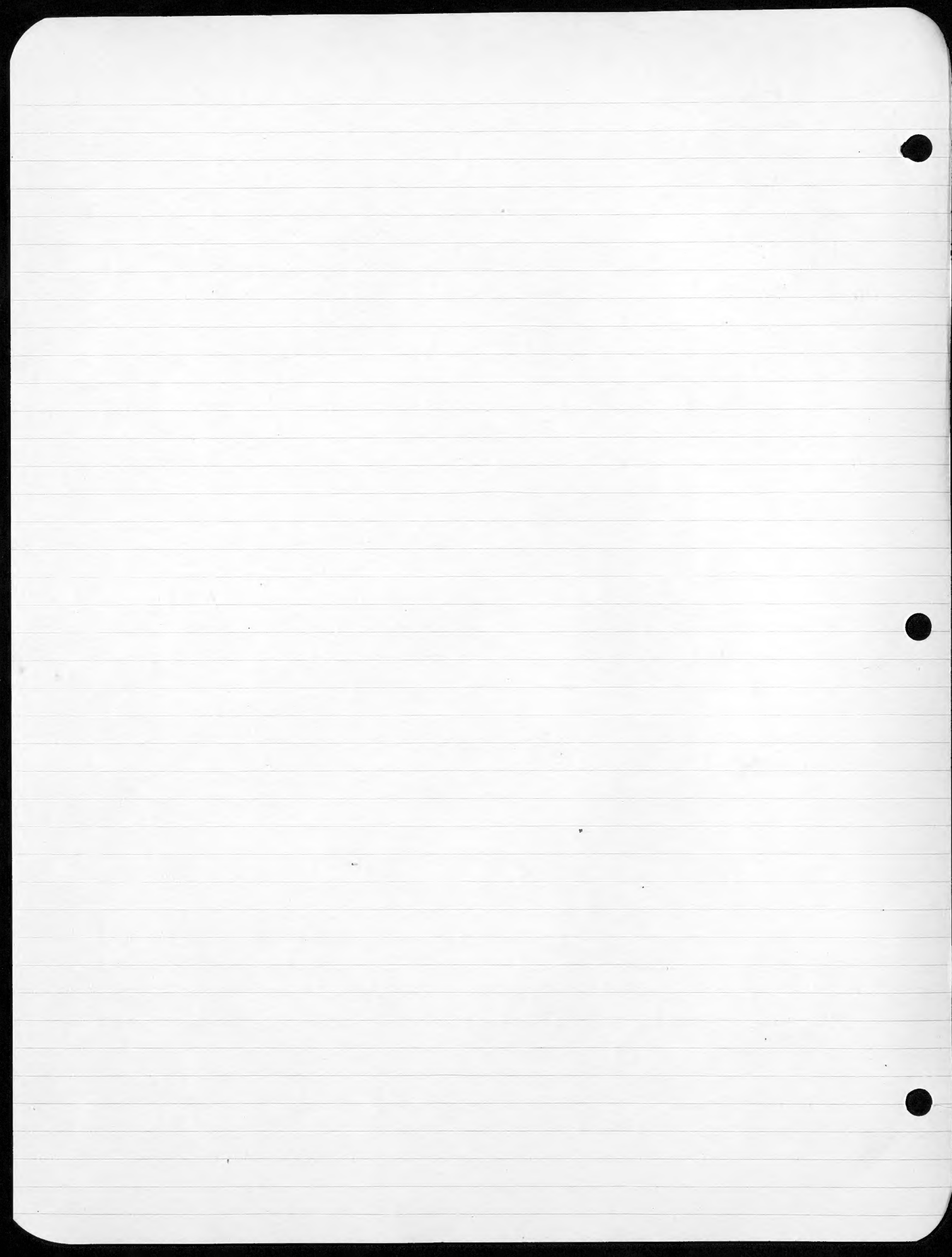
19096. *Morim.* Shrub 1.5 m. Fl. red.
 19118. *Syzygium* Shrub 2 m. Fl. ? Fl. green
 19. *Rub.* Shrub 2 m. Fl. ? Fl. orange-yellow.
 21. *Sapind. Hesperaloe angustifolia* Tree 3-4 m. Fl. ? Leaves 170 cm long. Fl. red. etc.
~~26. *Prot.*~~
 19144. *Ulm.* Tree 4 m. Fl. green.
 45. *Baccaea* O. ± 1 m. Fl. purplish wh. Stem simple. Leaves ± glauc. below
 46. *Podoc. Elleryana* British forest of ridges. 6 m. (tree). Fl. ? Fl.
 91. *Loparia* F. in open situation. Shrub 1-2 m. Stem simple. Fl. wh.
 A very vivacious stinging plant.
 19208. *Rub.* Moist ravine in hill forest. Shrub 1 m. Fl. wh. Fl. wh.
 11. *Pavetta* British forest of ridges. Tree 6 m. Fl. wh.
 17. *Aral.* O. ridge R8. Shrub 1 m.
 36. ? *Ferraria brownii* Tree 5 m. Fl. ? Fl. dehiscant.
 55. *Bamboo.* Moist ground (mostly floodplains). 10-12 m. (Feb. Jul. p. 113).
 56. " Probably a young pre-flowering stage of 19256.
 64. ? *Phyllanthum* C. in gullies of ridges 14W. Tree 5-6 m. Fl. gr. yell. Fl. ?
 77. *Lycium* Tree 6 m. Fl. buds only. (Mimosaes ?)

Herbaceous undergrowth

19072. *Juncus* Open sandy bank of a stream. Prostrate. Fls. purplish-white
 73. *Lil.* " " " " 30-50 cm. Fl. wh. with dark br. anthers
 74. *Grass* " " " " ± 60 cm. Ascending.
 75. *Podoc.* C. steep shady bank. 30-40 cm.
 19117. *Junc.* Dry. locally on flats. 4-5 m. Red fls. with underspread ovary.
 22. *Tapinochilus* ? 3 m. Prostrate red.
 47. *Poac.* 50 cm. Fl. wh. veined purple
 48. *Leptanthes* F. dryish forest. 10-15 m. fertile
 50. *Vantherium* F. " " of ridges. 20-30 cm. Fls. wh. stamens purple.
 51. *Poa* P. locally " " 40-60 cm. Simpliciflora.

Vines

19141. *Comp.* Lower ridges. 15 m. Fl. wh.
 42. *Uncaria* " " 15 m. Fl. ? Fl. green
 43. *Strigmaria* F. " " (floodplains). Height: 20 m. Fl. ? Fl. yellow, suff. by.
 19212. *Trichocoma* ? Climbing 1 m. in a wet ravine.
 95. *Gynophora* F. climbing high on tops of canopy trees - to 30 m. Fl. ? Large orange fl.



Iron Range

Rain forest - high ground.

Woody undergrowth cont.

19281. *Manihot* O. Lower ridges. Tree 5-8 m. Young leaves pink, very conspicuous in the forest
99. *Cecylina* F. in primary forest. Tree 4-7 m. Fl. ? Fl. orange
19301. *Miconia* *minutula* O. tree 5-6 m. Fls. wh. Fl. orange.
21. *Rub.* Forming a thicket in an open gully. Shrub 2-3 m. Shiny wh. fls. ^{lanceolate}
29. *Parringtonia* C. Banks of stream. Leaning stems 6-7 m. Fl. white or y.
30. *Rub.* Banks " " Shrub 1 m. Fl. ~~wh.~~ wh. = Fl. ?

Epiphytes & Parasites cont.

19296. *Villaria* C. large clumps high on trees. Pendent to 80 cm.
19322. *Dendrobium undulatum* F. high epiphyte. Clumps 50 ¹⁰⁰ cm. Fringed 3000 ft. fls.
19652. *Lamellaria* Large sp. Fls. red.
- 56 " 40 cm. Encamp. yellow-gr. fls.
57. *Volothecia* On a tree. 50 cm. Fls. gr. Fl. green, waxy.

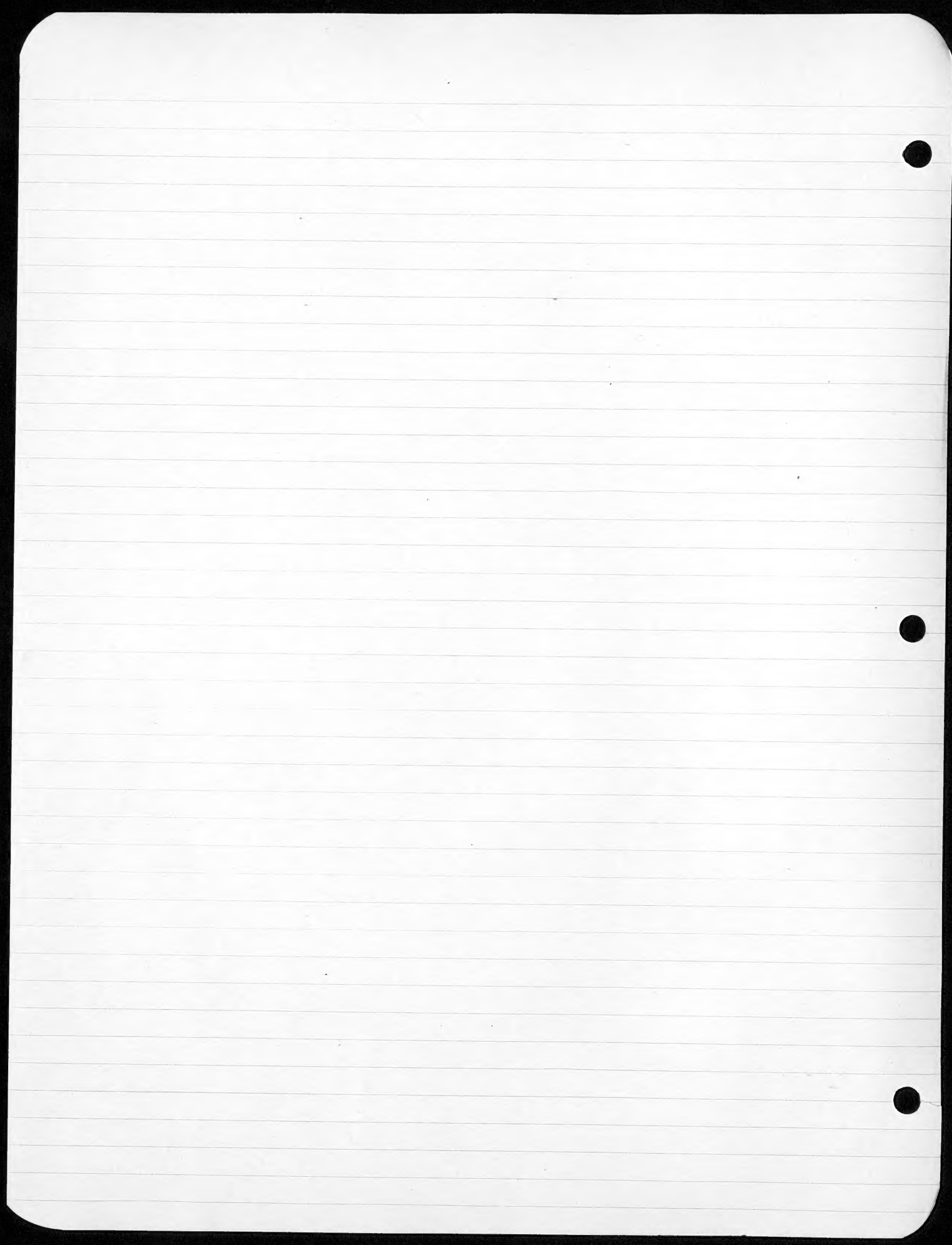
Vines

19326. *Freycinetia insignis?* A. in ravines. Very large sp. 20-25 m. Leaves to 110 cm. Shrub
27. *Piper* F. " " Climbing shrub to 10 m. Fl. or orange. ^{Pleasantly aromatic}
- ?8. *Freycinetia* O. Banks of stream. Scrambling & climbing to 10 m. Leaves small. ^{Shrub.}

Substage trees

19331. *Morim.* 10 m x 15 cm. Fls. gr. yell. Fl. umbel. Stiff, often toothed bases.
19658. ? 15 m x 12 cm. Fls. cream. Fl. ?
66. *Bantheria?* 12 m x 15 cm. Fl. buds. Fl. 2 lobed.

19309. *Pandanus* ^{h. m.} off *pseudo-insignis*. O. in gullies. 12-14 m. ^{Very} large sp. with thick stem, branched crown, & many long, prickly stiff roots.
10. *Palm.* *Phycosperma capitata - Parkii* F. 4-7 m. Stem 1, slender. Unopened specimens only (Eaten by rats?)



Iron Range

Rain forest - high ground

Epiphytes & Parasites

19153. Fern. Mid & high levels. High scandent. Fertile leaves \pm 1 m. Shield leaves 25 cm.
57. Cyclophorus. High epiphyte. Leaves very thick & fleshy.
60. Moss. High "
89. Cyclophorus " " Leaves smooth, shining, \pm 10 cm. long.
97. Loranthus Fl. red, yellow & purple.
- 19246 Cyclophorus Tob. Mt. Thea (50 m.). \pm 30 cm. Leaves stiff, greyish below.
67. " " " 9 cm. Leaves thick, fleshy.
51. Orch. F. low on trees. Fl. - small sp. & red.
52. Apleurium aff. nidus Near ground on ridges. ^{Scand.} High epiphyte: leaves \pm 110 cm. long.
75. Psittacophyllum. Low in gallery forest. Fl. br-green. Leaves \pm 50 cm. long.

Herbaceous undergrowth, cont.

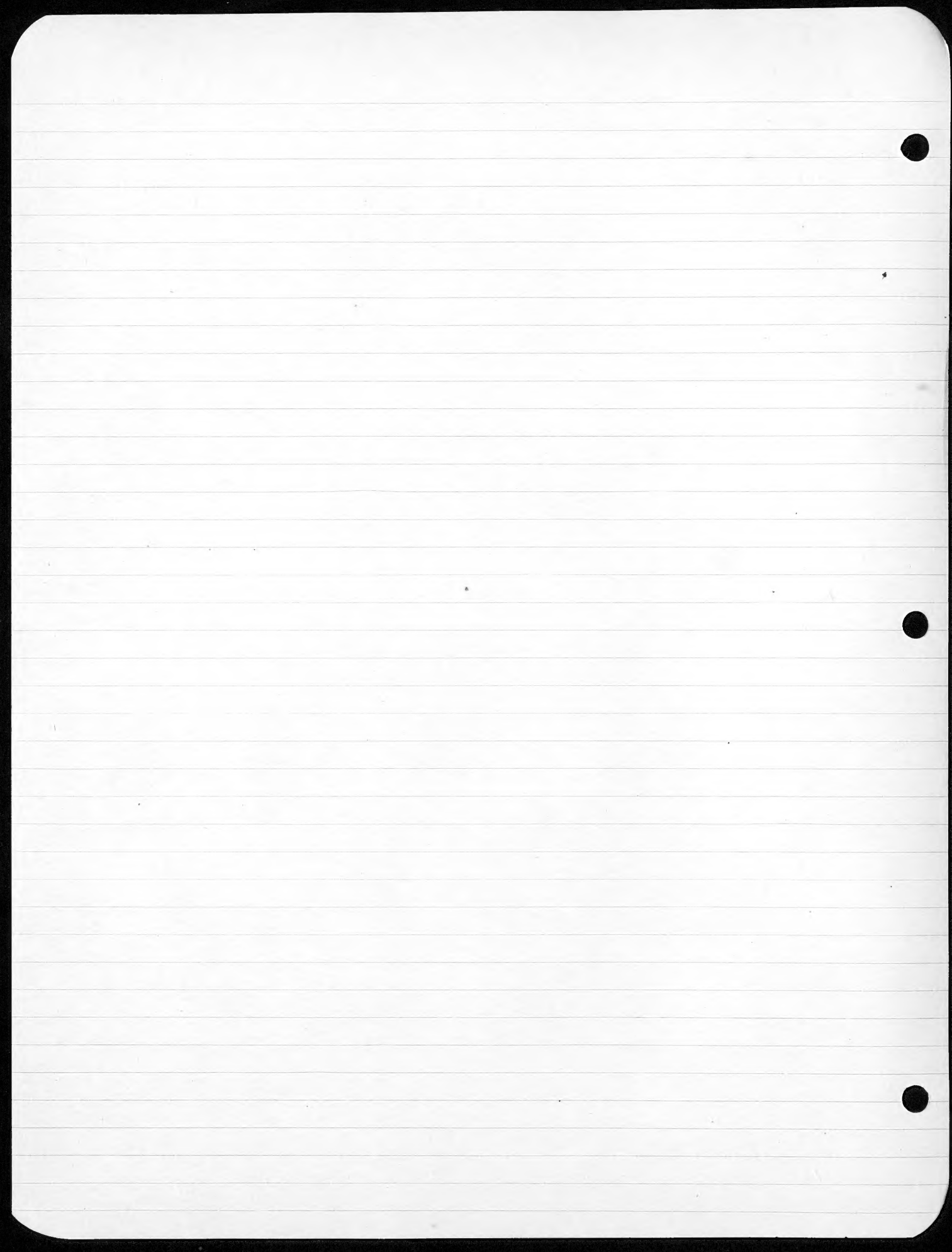
19193. Lepidostichum Eng. in small groups on ridges. \pm 60 cm. Spikes pink.
19209. Anisoptera F on banks of streams in ravines. Procted leaves \pm 5.5 m. long.
10. Tharacostachyum? Enveloped in wet bottom " \pm 1 m. Nubs bluish-grey.
16. Fern O. on banks of a stream in a deep ravine. 80-100 cm.
34. Dryopteris Banks of a stream. \pm 1 m.
35. Eranthemum 20-35 cm. Fl. wh. Leaves greyish below.
80. Weisslichium Thin forest on ground flooded in wet season. 80-150 cm. Large clumps.
85. Polanophora Scattered colonies, leaf littered ground. Flowers ^{giving?} Jan 14/61
88. Cyperus O. in openings. 70-100 cm. Stems usually 1, erect.
90. Fern F in open parts on ridges. 30-50 cm.
19319. Fern Eng. in openings. Tubercles \pm 50-80 cm.
23. Polanophora. Monocot. Dry shrubby edges.

Vines

19247. Balanococcus P. on hills. To 30 m. Fl. unripe.
53. Tocoma Hills 150 m. (Mt. Thea). 20 m. Fl. yellow; streaked & speckled purple inside.
79. " Trunk fringing forest. 5 ^m Fl. green. Fl: ?
91. Camp. O. To 15 m. (= #?). Fl. pinkish-wh.

Mosses

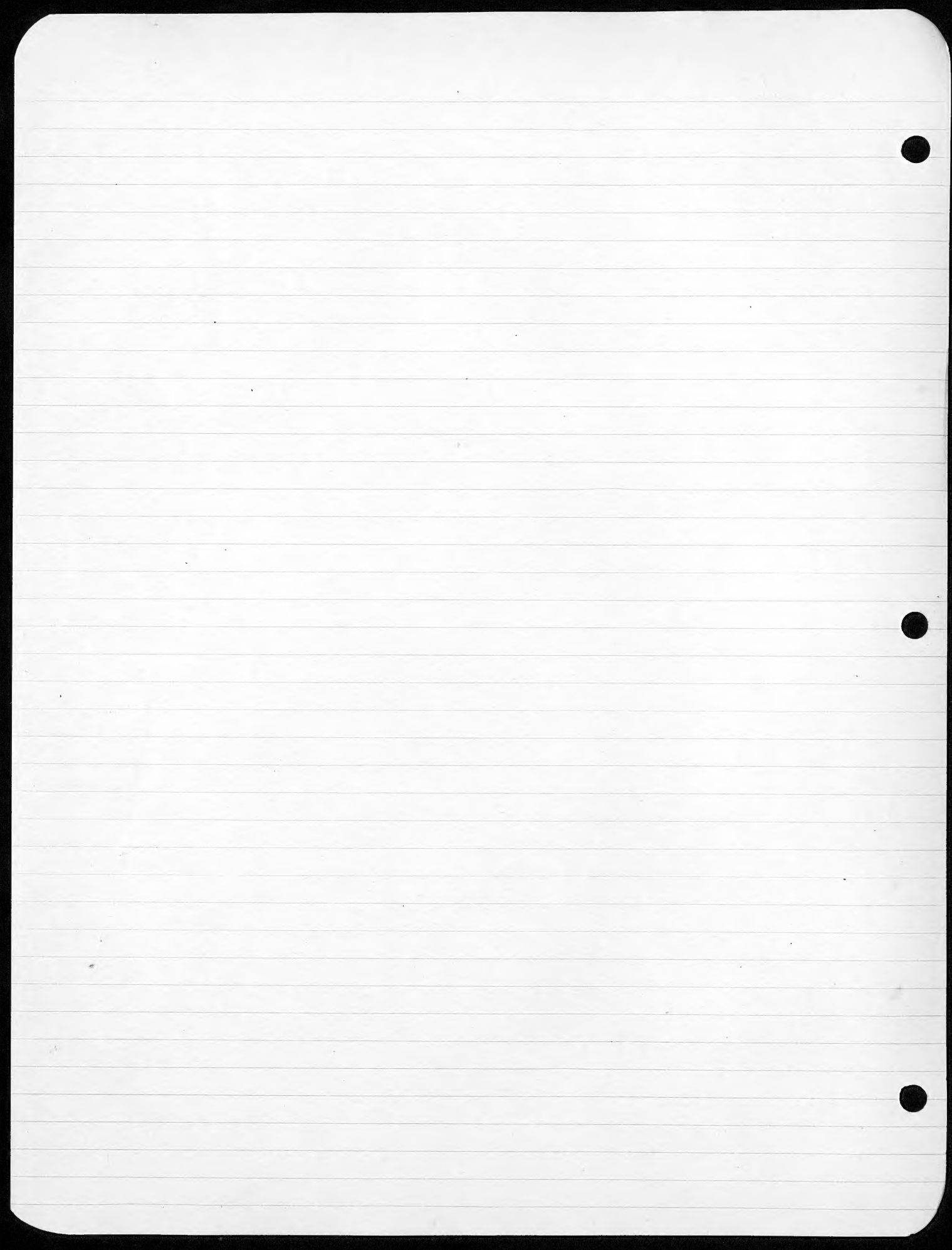
19204. Scy in wood on ground.
- 5 C. lower tree trunks
14. Barkling rocks & logs in a moist ravine
58. Lower tree trunks in P. 8.



Iron Range

Open forest vegetation

19120. *Solanum*. Tree 4 m. Fl. purple. Fr. ? alt. 20 m.
 19155. *Prunus* F tree 6-8 m. Fl. ? Fr. red. Young leaves coffee red.
 58. *Morinda* Tree 6 m. Fl. cream. Fr. yellow-gr., soft.
 19194. *Aristolochia* Vine 2 m. Fl. blackish purple.
 95. *Muehlenbeckia* C. up to 10 m. (also in forest margin). Fl. green.
 98. *Commersonia* *A. charalensis* tree up to 15 m. Fl. wh.
 19243. *Fern*. Same growth up of Mt. She. 80-100 m.
 44. *Dodonaea viscosa*. Top of Mt. She. (150 m.) Tree 5 m.
 45. *Ficus*. " " " Vine 3 m. Fl. wh. Fr. unripe
 48. *Passerina* " " " Herb 80 m. ascending. Fl. gr.
 92. *Tournefortia* Proscandent shrub 2 m. Fl. br.-wh.
 19311. *Musa*. F in back growth. 3-5 m. x 10-15 m.
 15. *Macaranga*. F " " Tree 5-7 m. Fl. green.
 16. *Panicum*. Scrambling to 3-4 m.



Iron Range

Rain forest marginal communities

Trees

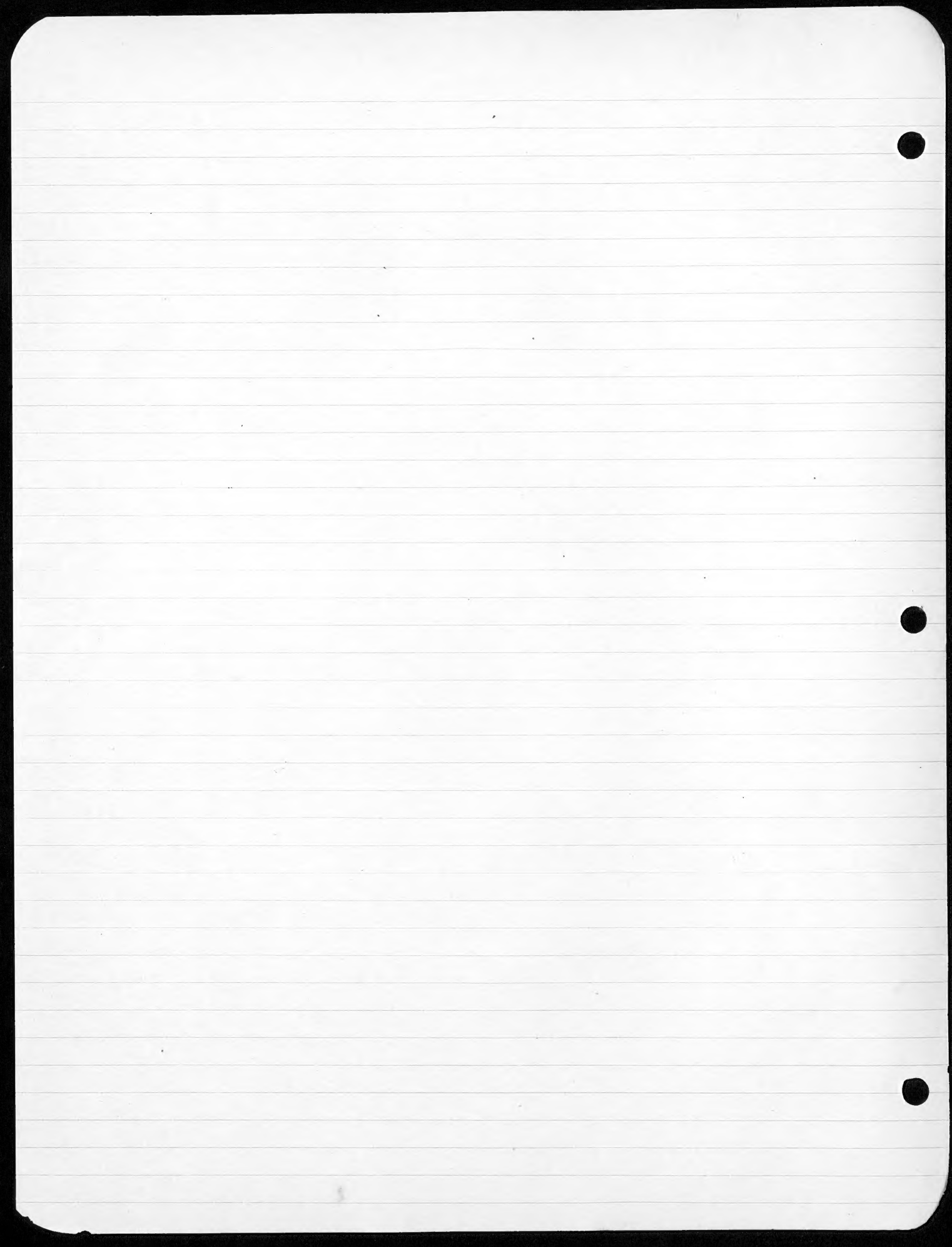
19060. *Meris?* tree 10 m x 15 cm. Fl. wh. (Shrub on Savanna forest)
 19150. *Ublstonia* F in edges. W 25 m. x up to 30 cm. Fl. wh. Fl. 45 cm. long.
 96. ? Dryish edge of gully fl. 15 m. x 15 cm. Fl. ? Fl. 2 cm. dia.
 19332. *Timonius Rumphii*. Margins of dry forest. 10 m x 20 cm. Fl. wh. Dark rough bark.

Shrubs

- ~~1905~~ 19105. *Pandanus?* Leaves scabrous. Showy wh. fl. 1.2 m. tall. (Ridge)
 19221. *Rub.* Edge of forest (gully). Shrub 1 m. Fl. wh. Fl. ?
 93. *Cassia* F 2-3 m. Fl. yellow. Leaves punctate below.
 19333. *Rhodanthe* C. locally in brushy edges. 2-3 m. Fl. ? Fl. white.

Herbs

19064. *Scleria*. O. large clumps ± 1 m. Fl. unisexual. Leaves glauc. below.
 19156. *Oplismenus* C. locally. 20-30 cm.
 19219. *Panicum* Grassy in margins of dryish forest. 40-50 cm.
 20. ? (*Panicum?*) Grouped in semi shade on grassy edges of gully forest.
 Stem. Sol. leaf to 13 cm. wide, flat on ground.
 C. 30-40 cm. Spreading & ascending.
 19314. *Arce.* O. in open edges. 20 cm. Spreading yellowish-wh.
 18. *Oplismenus* Grassy in margins. 40-60 cm. Ascending.
 20. *Sesmodium* Grassy in grassy edges. 1 m. Fl. purple.
 23. *Polanthes* Prostrate. Dry shrubby edges gully forest. 12 cm. high.
 24. *Fern.* Open edges. 120 cm.
 34. *Hymenoph.* Covering moist schist rocks in a ravine. ± 1 cm.

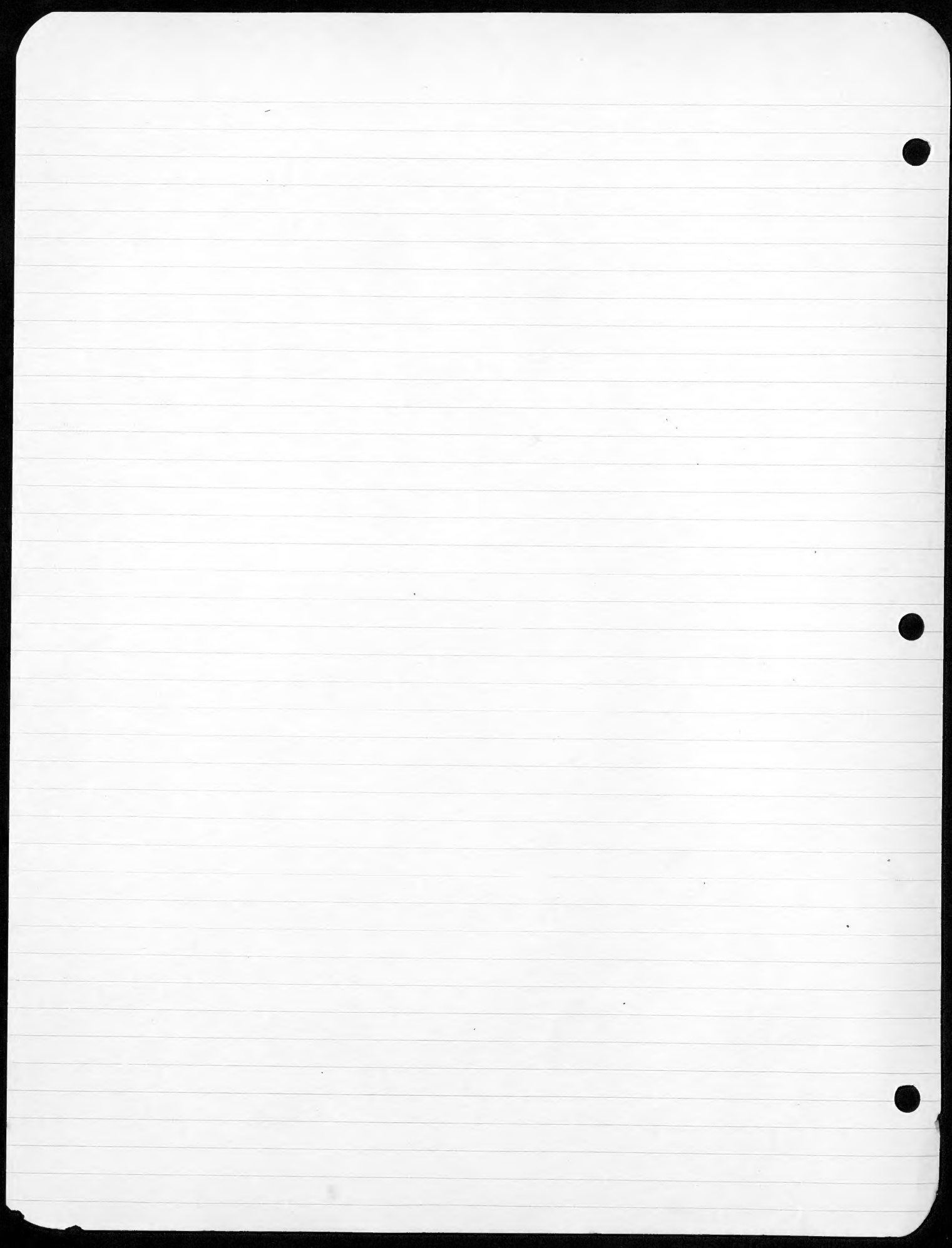


Iron Range

Rain forest marginal communities

Vines

19065. *Cissampelos* F. 3-4 m. Fl. green. Ft. red. (96 leaves).
67. *Cissampelos* 3-4 m. Fl. green. Ft. unripe (soft pubescent).
19192. ? C. up to 15 m. Fl. wh. Ft. unripe
95. *Muehlenbeckia* C. (also in myrowths) to 10 m. Fl. greenish.
19238. *Muehlenbeckia* 3 m. Green fl.
39. *Cissampelos* 2 m. Fl. gr-wh, inflated & 5-lobed at base.
68. *Banavalia* F. to 15 m. (climbing). Fl. pale purple. Ft. unripe.
78. *Cissampelos* Edge of oak fringe forest. Tree 12 m x 30 cm. Bark only slightly corky.



Iron Range

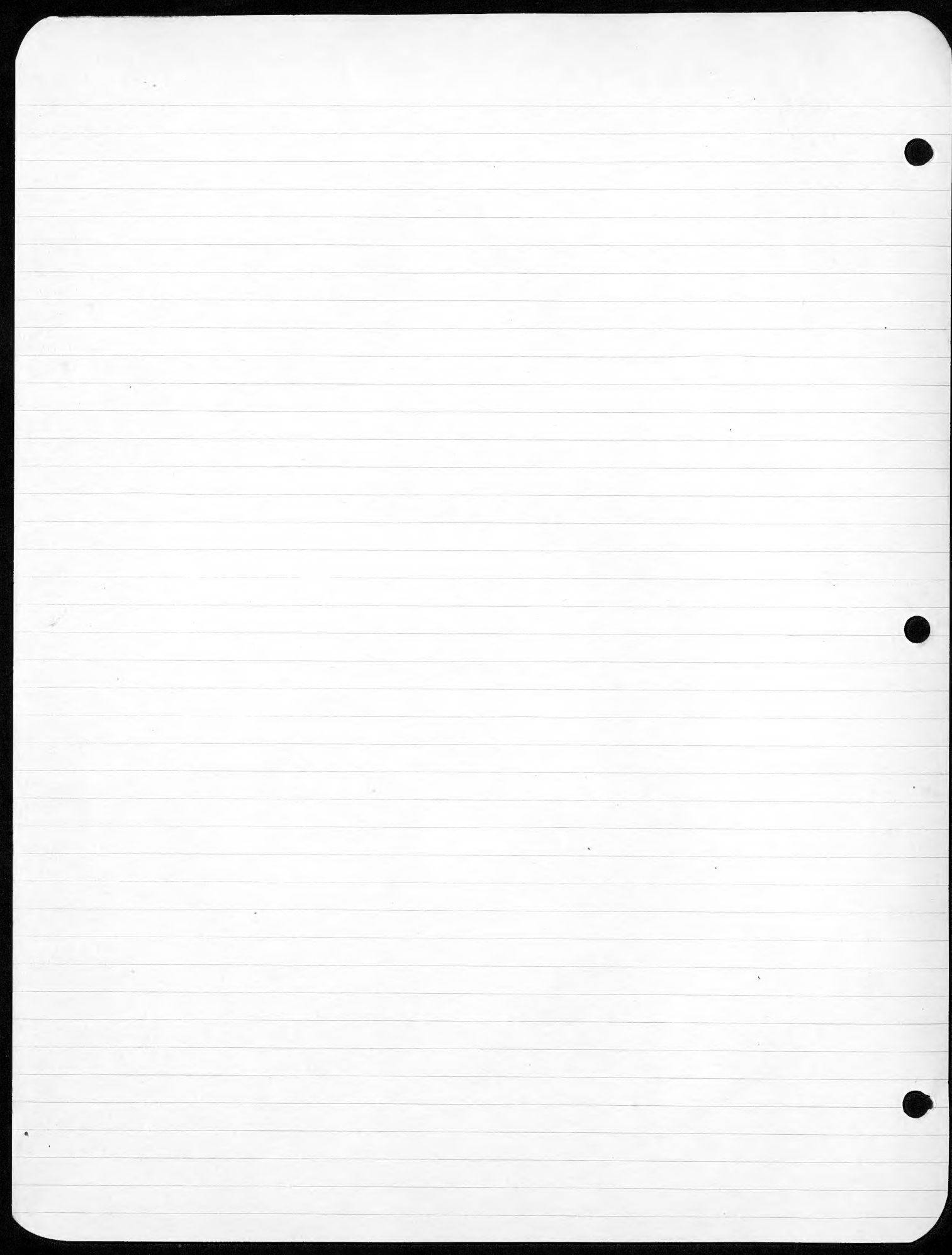
Savanna forest

Trees

19046. *Timonius* F. slender tree 5m. Fls. wh. - fr. ?
 82. *Barringtonia* A. with *Melaleuca* spp. on crest of a quartz ridge 75 m. alt. 4-6 m. Bark rough. (also in leucopy bark) x 15-20 cm.
 91. *Melaleuca nymphalocarpa*? P. with *Barringtonia* on infertile quartz ridges 8-10 m. Fls. red. Bark fibrous, deeply fissured.
 95. *Acacia*. A. infertile quartz ridges. 5-7 m. Yellow, strongly perfumed fls. in elongated spikes. Pods?
 97. *Acacia*. P. in SF. 5-10 m. Rough bark. Whitish & red-brown lenticles. Pods?
 99. *Lepidospermum fabricii*. A. in grass tree country on quartz ridges. 5-8 m. Fls. yellow.
 19126. *Alphitonia* F. 8-10 m. Leaves very below. Fls. green.
 35. *Eucalyptus* (Bloodwood). Principal tree of SF of ridges. 10-25 m. Fls. cream
 40. *Xanthostemon crenulatus* F. stony ridges 50 m. alt. 10-12 m x 20-25 cm. Fls. only. Thick soft flaky-sealy bark.
 19201. *Acacia mangium* Bloodwood SF of red soil ridges. ± 30 m. x 45 cm. Fls. whitish. Leaves ± glaucous.
 03. *Wormia alata* F. on ridges. up to 15 m. x 30 cm. Fls. yellow; styles red. Bark reddish-br. shedding in thin papery flakes.
 71. *Acacia* F. adjacent to R.P. (ridges). 10-12 m. x 15-20 m. Fragrant full fls.

Shrubs

19060. *Erwinia*? Above rain forest, where it is a marginal tree ± 10 m. tall.
 19125. *Antastema* A. ± 1 m. Fls. purple.
 34. *Bommodium* O. on ridges. 1 m. Fls. purple.
 39. *Arct.* One example 1.2 m. Fls. off.
 19202. *Erwinia* O. in bloodwood SF of red soil ridges 1 m. Fls. ? Fr.
 25. ? *Merremia* SF of ridges. 40 cm. Fls. wh. to yellow. Leaves stiff
 41. *Hibiscus rhodopetalus* O. in bloodwood SF of ridges. 30-40 cm. Fls. rose.
 42. *Tephrosia* " " " " 2.5 m. Fls. reddish-purple.
 54. *Strobilium* F. in SF adjacent to R.P. 2 m. Fls. off.
 60. *Euph.* Abundantly scattered & forming thickets adjacent to R.P. ± 2 m. Fr. black, fleshy.
 61. *Pluggia* F. adjacent to R.P. ± 2 m. Fls. wh. Fr. wh.
 72. *Eporoid.* O. in grasses



Iron Range

Savanna forest

Grasses

19191.

O. stony soil. 50 cm.

37.

A. on an ironstone ^{bed} ~~road~~, 60-80 cm.

19227. *Eriopogon*

Muddy bed of a stream. 60-80 cm.

30. *Andropogon*

F. \pm 2 m. Clumps of numerous small culms.

Trees, cont.

19274. *Timonius Rumphii*.

C. adjacent to R.F. 6-8 m x up to 25 cm. ^{Bank or scrag bush.} Fls. cream.

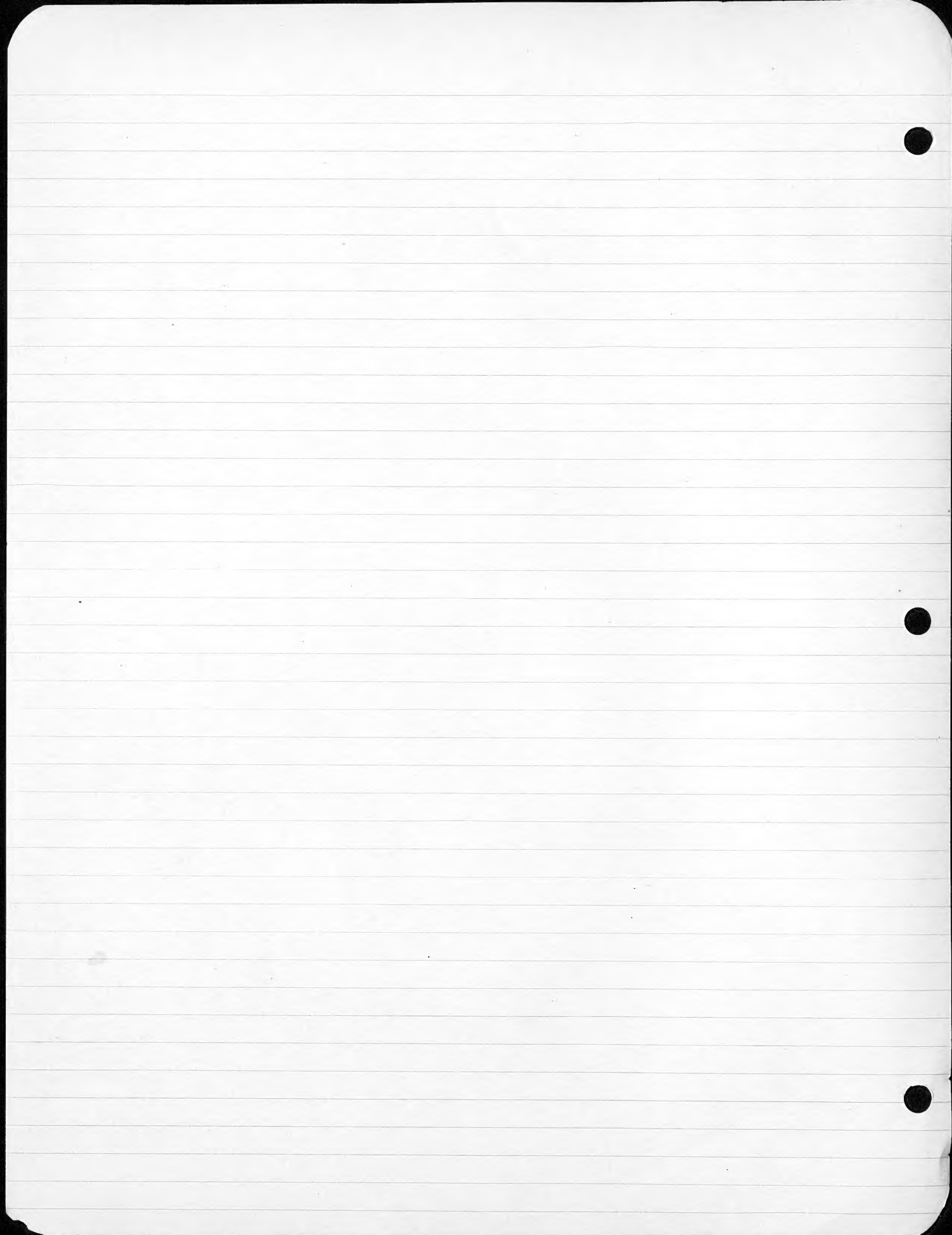
19312. *Pandanus*

Scattered, or grass in groves on fls. 5-7 m. ^{See label.}

Felices

19228. *Quercus*

C. muddy bed of a stream. 20-35 cm.



Iron Range

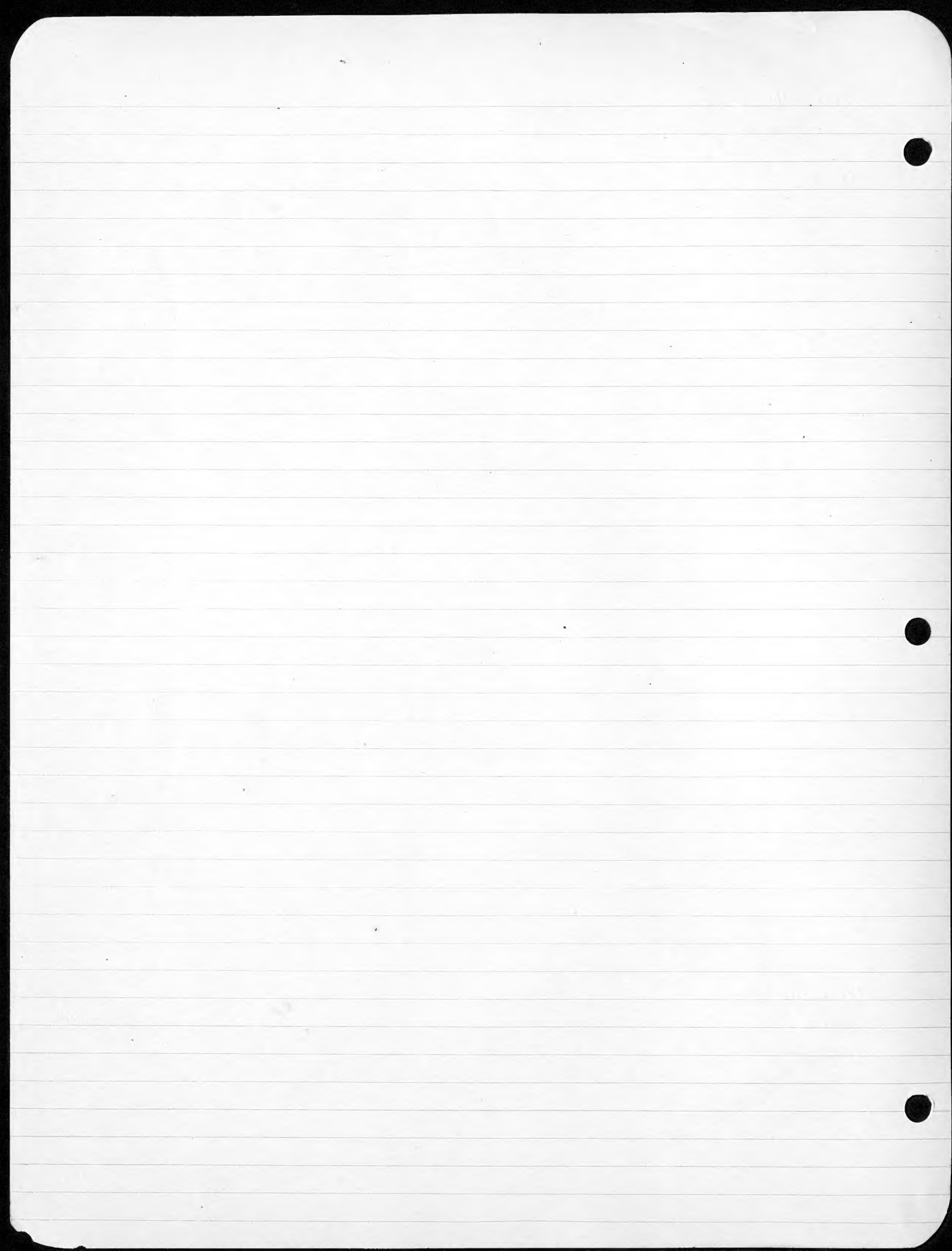
Savanna forest

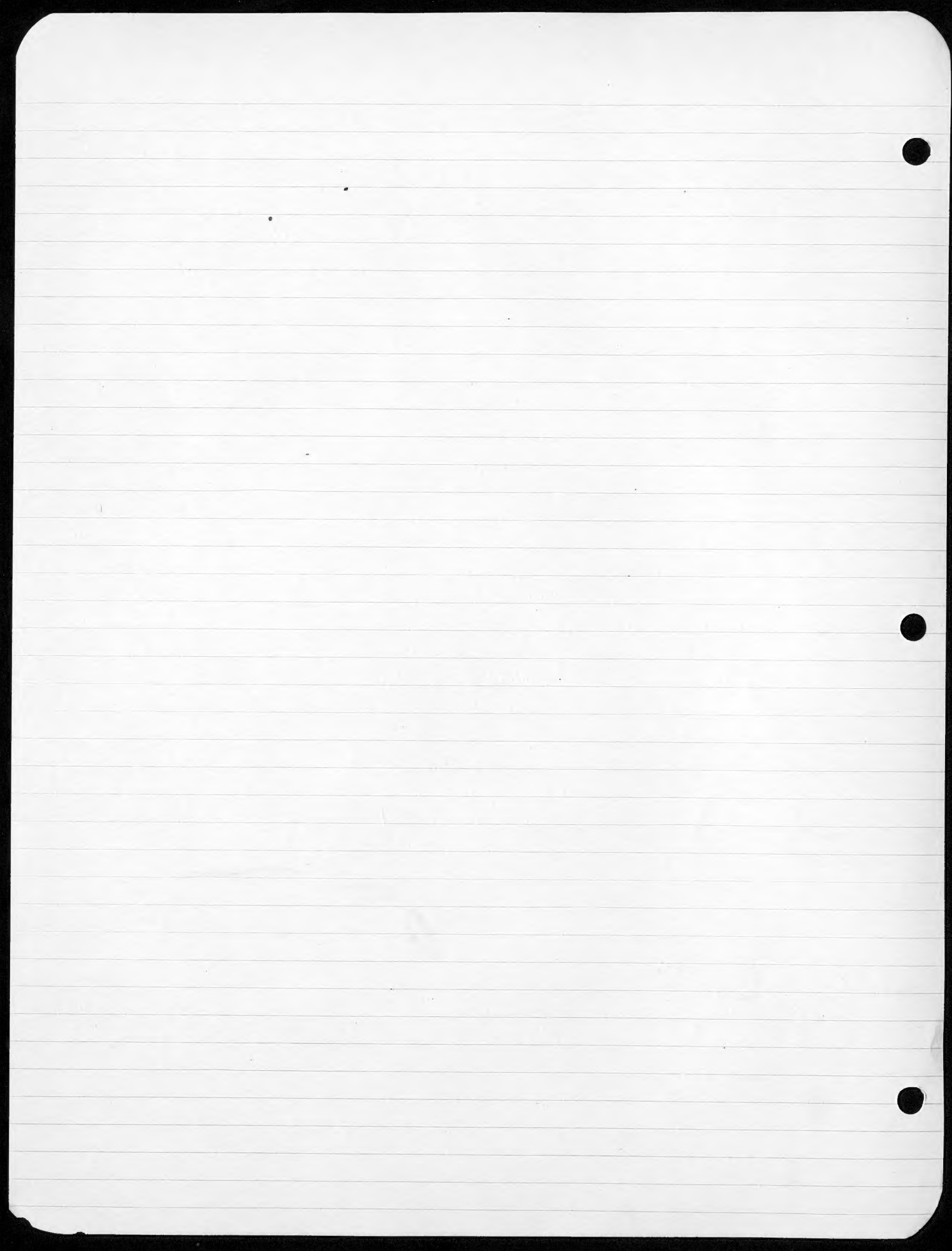
Herbs

19100. *Gleichenia*. Ereg. in a shrubby gully a ridge 75 m. 30-40 cm. Stiff
07. *Obolobea chinensis* Abundant long grass. 70-80 cm. Fl. purple.
27. *Bom* Ereg. locally amongst grasses 20-40 cm.
28. *Sonidium* F. in thin ground cover on stony ridges. Fl. orange.
29. *Bom* F. stony ridges. Subprostrate. Fl. blue
30. *Rub.* F. stony ridges. Tuft 40-80 cm. Fl. purple.
32. *Coch.* S. " " 25-50 cm. Fl. green with orange tinge
33. Scattered " " 10-15 cm. Fl. white
36. *Polygal.* O. stony ridges. 15-50 cm. Fl. purplish
38. *Bianella* Ereg. locally " 60-100 cm. Fl. blue
19218. *Boetia* muddy bottom of a stream. 15-20 cm.
22. *Boetia* Sandy moist bank of a stream. 15-90 cm. Fl. violet. Fl. by
23. *Spermocoe* C. in meadow S of ridges. 65 cm. Fl. lavender.
26. *Troph.* Shallow muddy soil of a rocky creek bed. 20 cm. Fl. purp. - wh. Fl. by
27. *Polygal.* C. locally. 25-50 cm. Fl. purplish.
31. *Rub.* Open rocky stream bed. 20-30 cm. Fl. wh.
32. *Rub.* " " " Subprostrate. Fl. wh.
69. *Polygal.* S. quartz ridges 60 m. alt. 30-60 cm. Fl. greenish.
19313. *Bom* F in long grass. 30-60 cm.

Epiphytes & parasites

19083. *Viscum*. Parasitic on *Loranthus* sp. Fl: glabrous, yellowish, & num. div.
19805. *Myrmecodia* C. on trees 20-50 cm. Fl. wh. See label
25. *Loranthus*. Fl. red & yellow.





Iron Range

Turkey bush

Grass

15088. *Aristida*

C. on infertile quartz ridge. Large open clumps ± 50 cm.

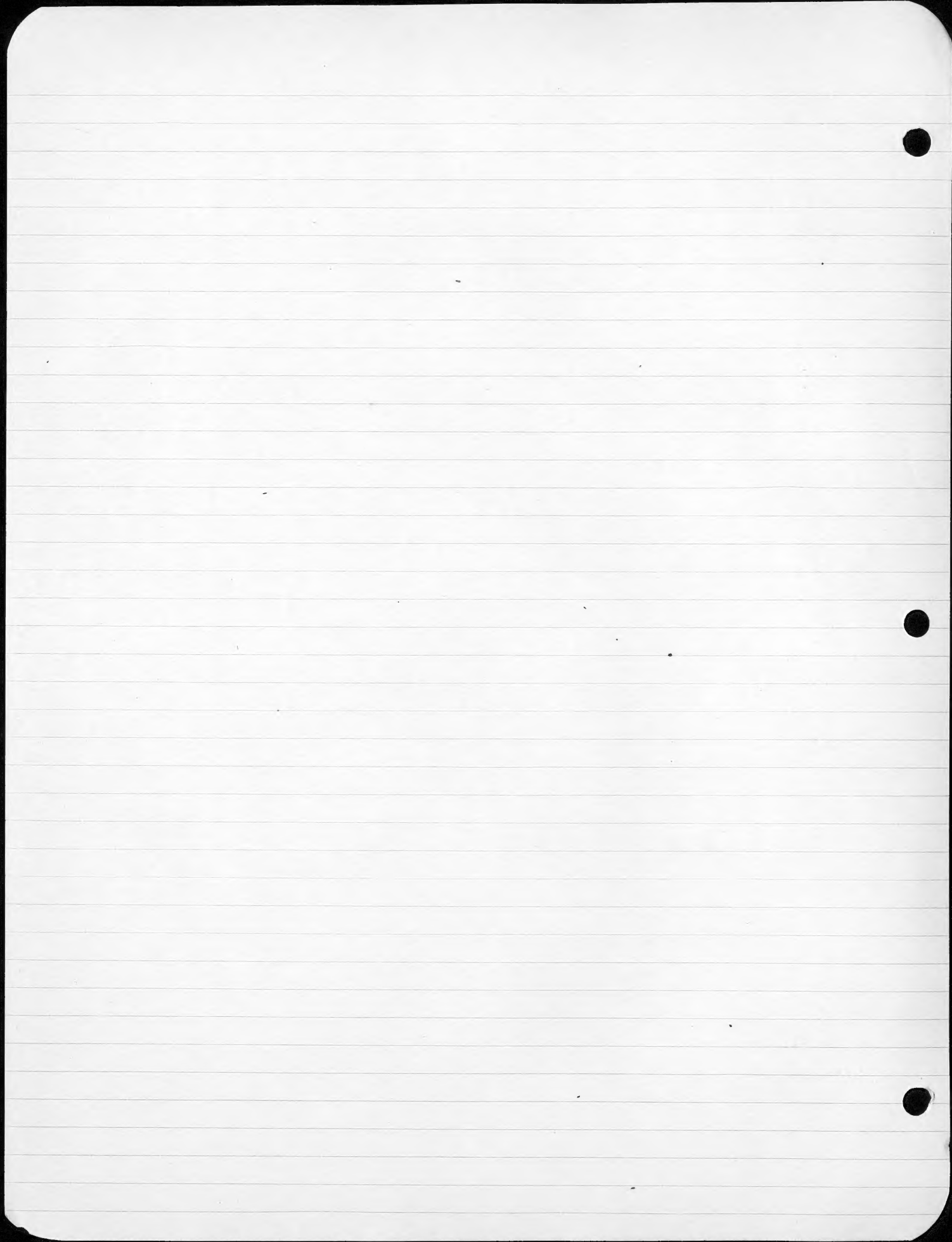
19270. *Eragrostis*

♂ " " " 20-30 cm.

Parasitic

19103. *Conyza*

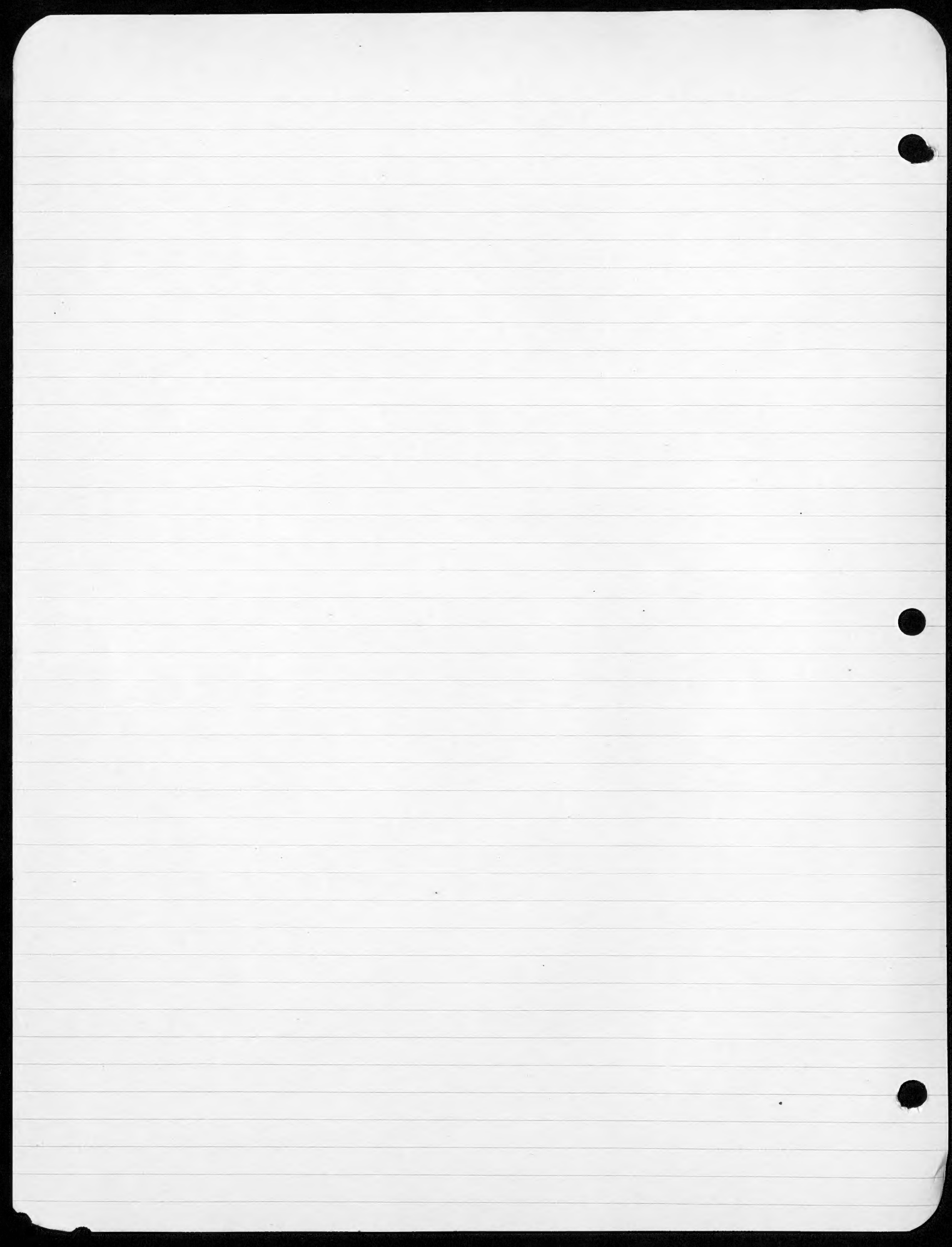
On shrubs. Fls. yellow.



Iran Range

Water plants

19076. *Hydrocharis*? In a still pool in a rain forest stream. Br.-green
77 ? Submerged in a quiet sunny pool in RF stream. Green
78. *Najas Tanderi* Braun. " " " " " Green
79. *Phara gymnopitys* Braun. Matted in edges of sunny pools " " " Green
80. *Sphenocystis*? P. in sunny pools " " " (m) ^{shrub-like} of fs. above water



Toyer Gap Camp
excluding Toyer Range & Mt. Toyer.

100 m. = 300 ft.

Rain forest

Rain forest marginal communities.

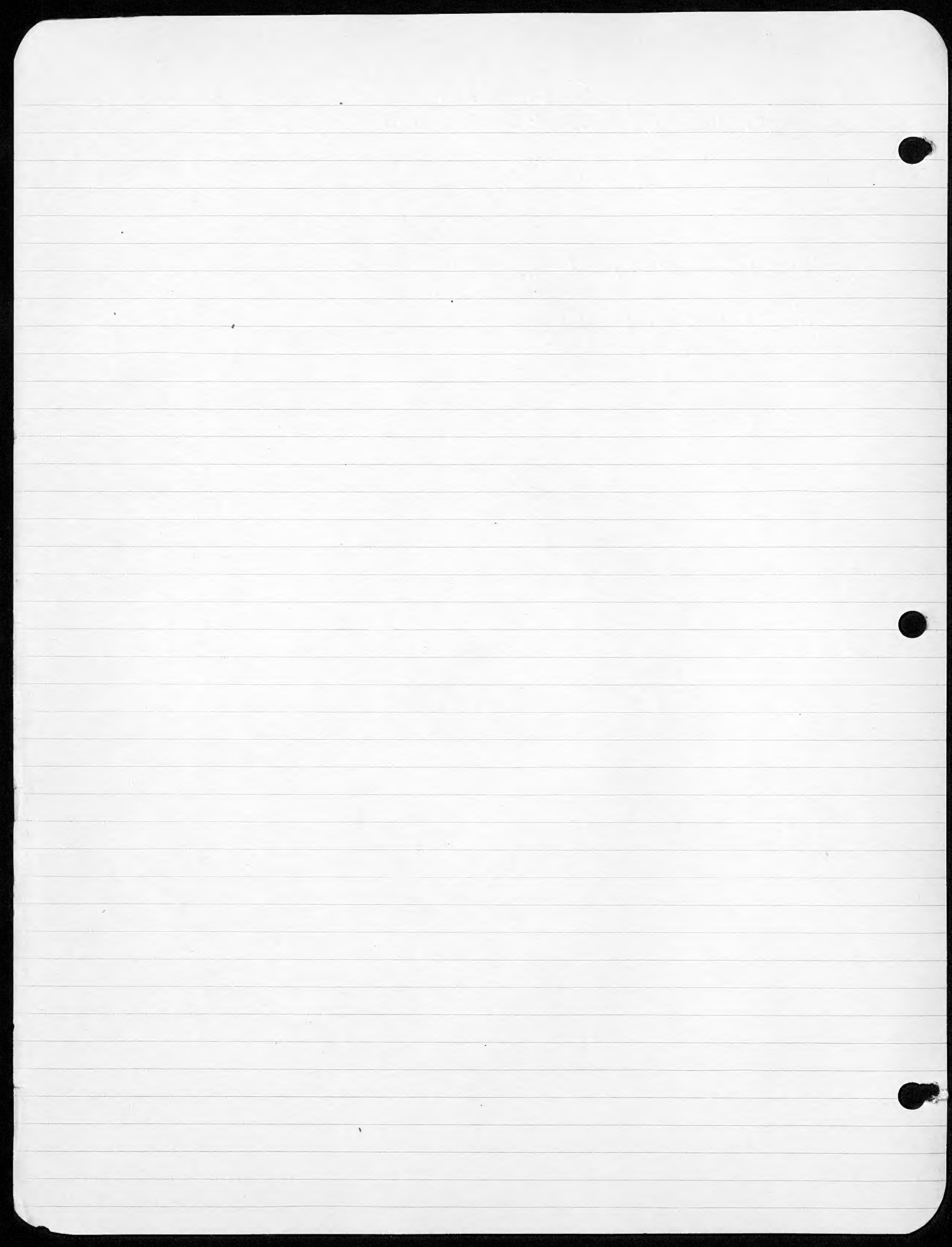
Rain forest reprints

Savanna forest

Turkey bush.

Floodbanks of creek in rocky gorge.

Pruffelomey Peak



Tozu Gap Camp.

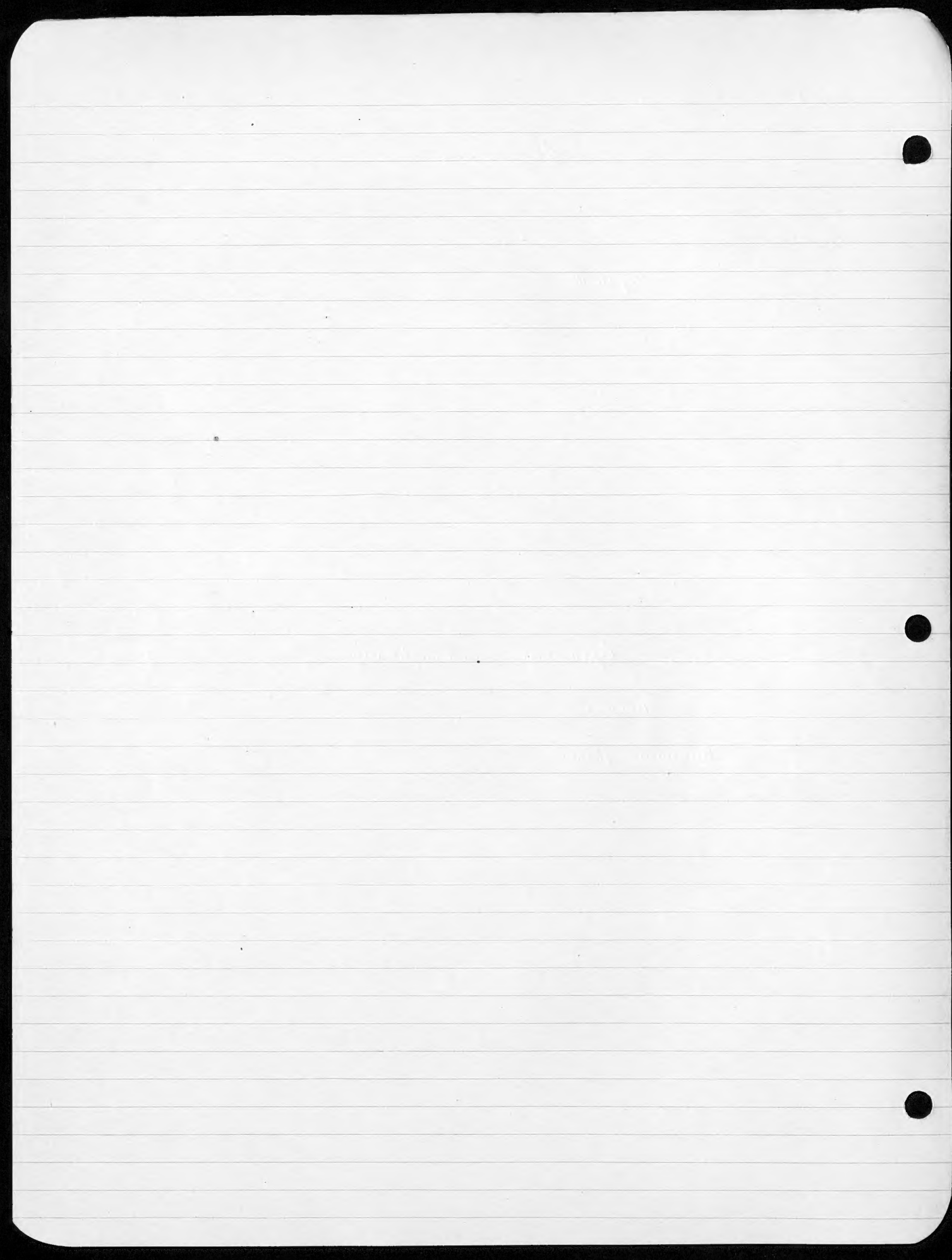
Rain forest

Trees, canopy

19407. *Callicarpus* P. Rocky sides of gorge 60m. To 20m x 35cm. Bark grey, fibrous.
19519. *Xanthosoma* ^{*Chrysanthum*} f. gully woods. 10-15m x 30cm. Fls. fr. yellow.

Trees, subtidal, *Lyptocarpus cunninghamii*

19433. *Cinnamomum* 15m x 20cm. Fl. buds only. Wood smelling like coconut oil.
38. *Wurmbachia laevis* 15 x 20 cm. Fl. ? Fl. immatures.
58. ~~*Podocarpus*~~ C.
19522. ~~*Stauron*~~ ^{*Andriandra glauca*} C. in low forest on rocky slopes, 6-8m. Fls. & fr.



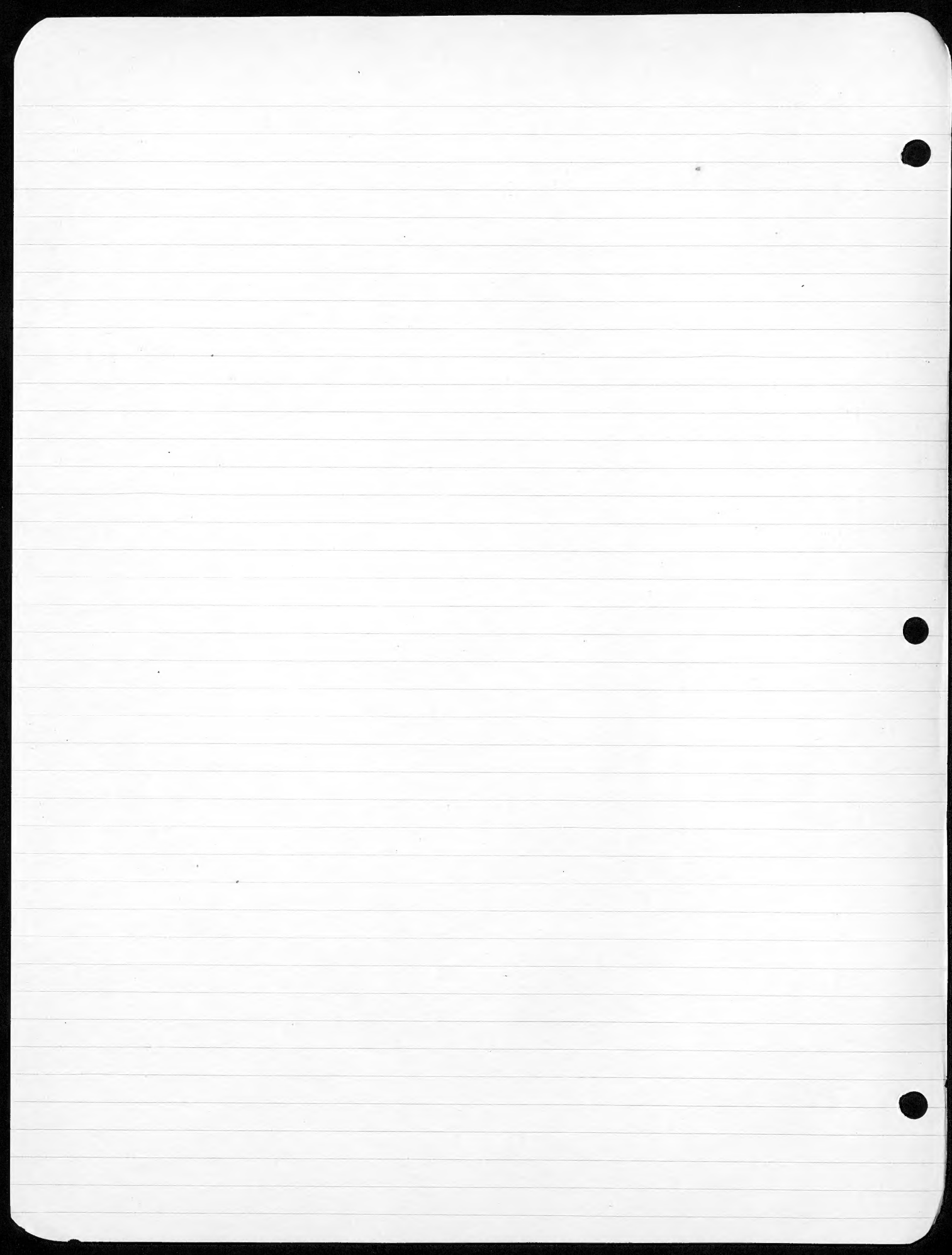
Pozu Sap Camp

Rain forest

Trees, rattlers

Woody undergrowth

- | | | |
|--------|--|--|
| 19344. | Rapanea | Shrub 2m. Fl. ? Fl. wh. |
| 80. | Moh. | O. in gullies. Shrub 4m. Fl. wh. (Also Puffblowmy Bush) |
| 19406. | Nyctan? | Treelet 2m. Fl. ? Fl. unripe |
| 39. | ? | Tree 3m. Fl. green Fl. ? |
| 43. | Croton | F. shrub 2m. Fl. wh. Fl. ? |
| 49. | ? | Very slender tree 2-4m. Fl. yr. Ascend yr. fl. 2-2.6cm. dia. |
| 19503. | Vral. | F in gallery woods. Shrub 1.5-2m. Fl. yellow. Petioles orange. |
| 20. | Uncount.?
<i>Epileptan</i> sp. nov. | O. tree or shrub 2.5-3m. Fl. cream. Large pinnate leaves. |



Taru Gap Camp

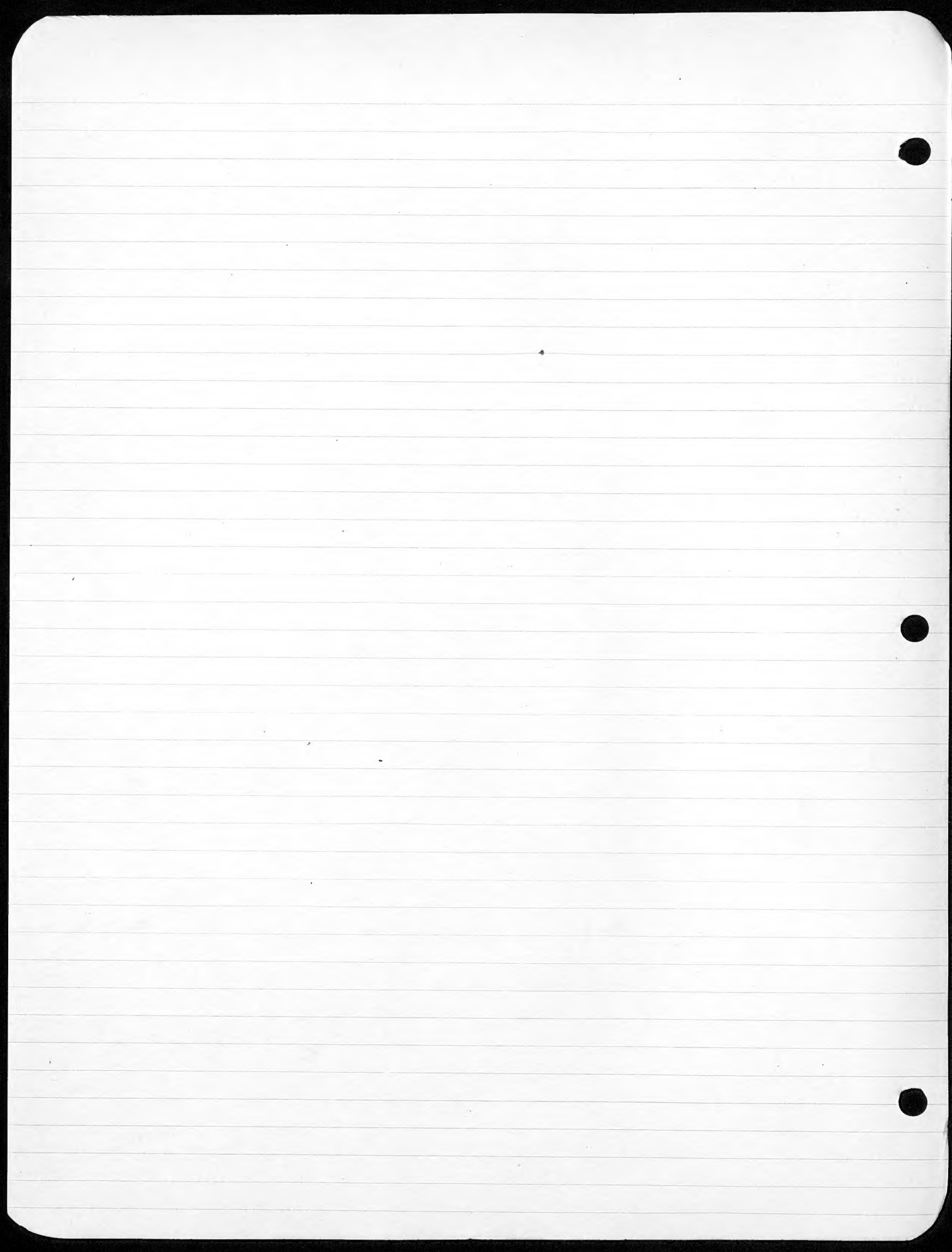
"Rain forest"

Herbaceous undergrowth

19374. *Ophiorrhiza*. Ereg. small colonies in a R.F. gully. 50-60 cm. Fls. wh.
 75. *Swam.* Ereg. open sandy banks of a stream. Drooping; 80 cm.
 19408. *Bosa hygroscolica* $\frac{1}{2}$ shade on rocky sides of gorge. Fl. only. Fibrous young roots.
 Like *Fern.* With *Abp.* ridges on rocky slopes. Erect; fleshy 50-80 cm.
 45 " " Ereg. slopes of a ravine. Tufts 60-80 cm.
 46. *Hymenoph.* Covering granite rocks 3-3.5 cm.
 Epl. Lph 50. " ~~Reversing bases of trees on stream banks. Leaves 1 cm.~~
 Epl. " 51. *Orch.* Matted on rocks. 1.5 cm. Fls. wh.

Vines

19432. *Alpac.* *Campy liana* 20 m. Fls. br.-white. Foliolate br., heart, rust-black
 47. *Koya* One example bank of a stream. 8 m. Corolla blackish-purple, 8-8.5 cm. dia.
 19504. *Murish.* "Wire-vine" of poor R.F. & lanky bush. 3 m. Fls.



Toger Gap Camp.

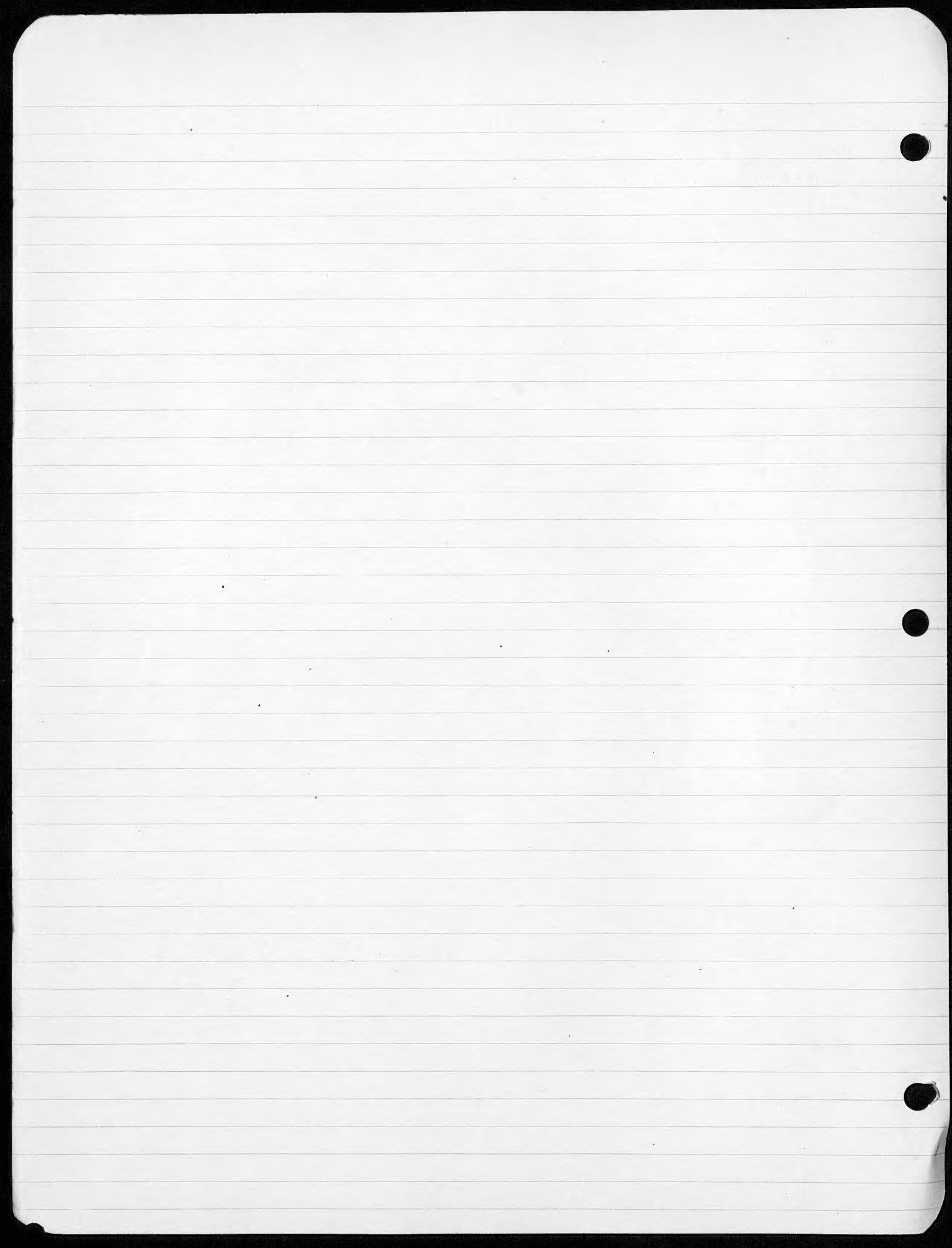
Rain forest

Epiphytes & parasites

19377. Orch. *Trifolium* sp. 1 cm. on an u. f. shrub. Fl. pale green.
 19442. Orch. *Renealmia* on trees. Fl. purplish-red & annular green. *Stem yellow.*
 48. *Cyclophorus* on a log. Bark glossy green. up to 13 cm.
 50. *Hymenoph.* covering bases of trees by a stream. under 1 m.
 19511. *Sundaribium* large masses high on trees. 40 cm. B. Hb. yr. mottled & streaked with red.
~~26. *fr.* *G. low epiphyte.*~~

Mosses

19382. *On dead wood.*
 83. *A. ^{Germ} ~~fr.~~ of trees & on dead wood.*
 84. *Dead logs.*
 85. *Rotting logs.*
 19440. *Trunk of a living tree.*
 54 *Wet rocks in bed of a stream*
 55 *Lower trunks of trees*
 56 *Living stones in a stream*
 57



Toyon Range & Mt. Toyon

Rain forest of slopes

Tree

Woody undergrowth

Herbaceous undergrowth

19367. Hancock.

Brushy Pt. 200 m. 60-80 cm. Fls. wh. mottled purplish. Ascending.

68

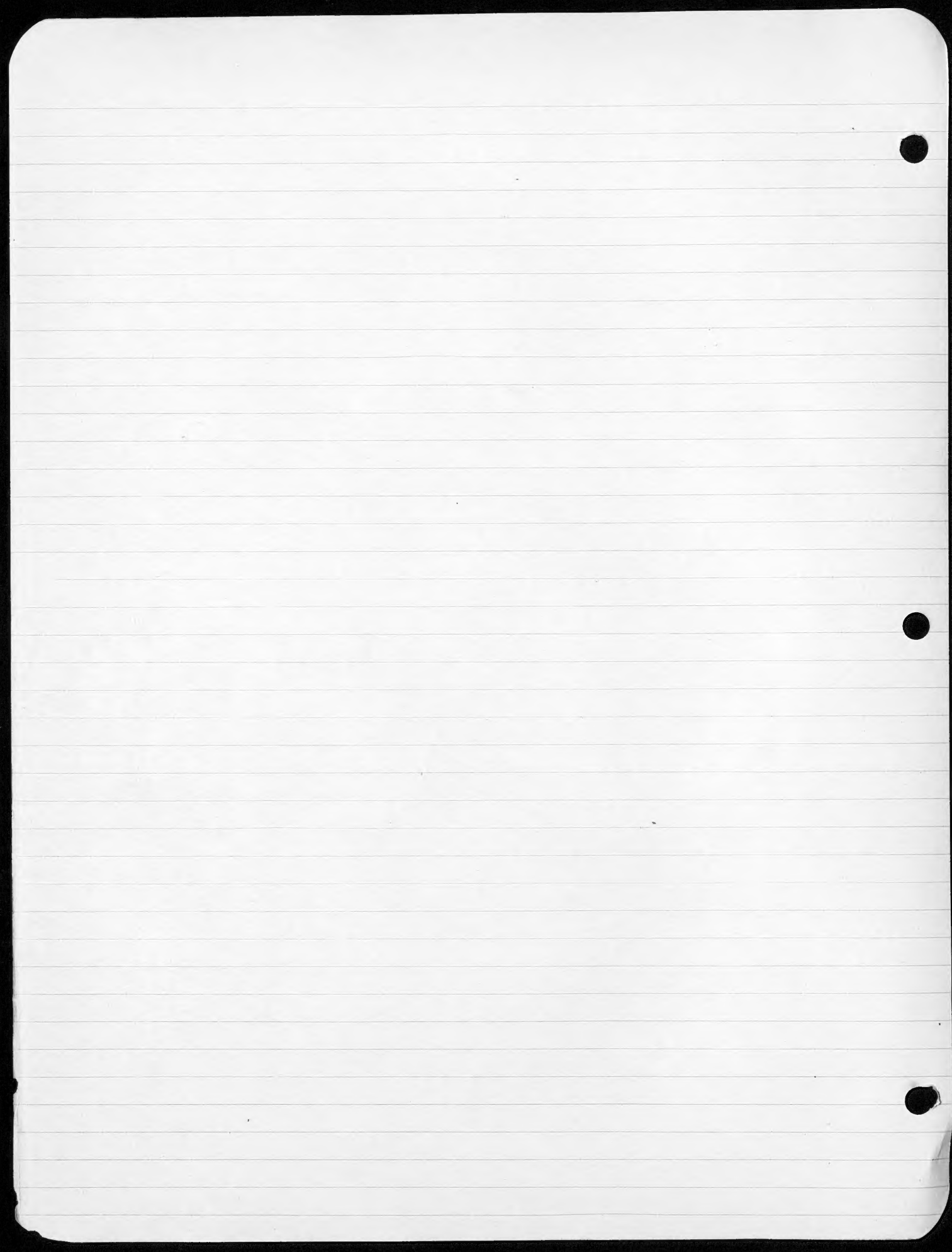
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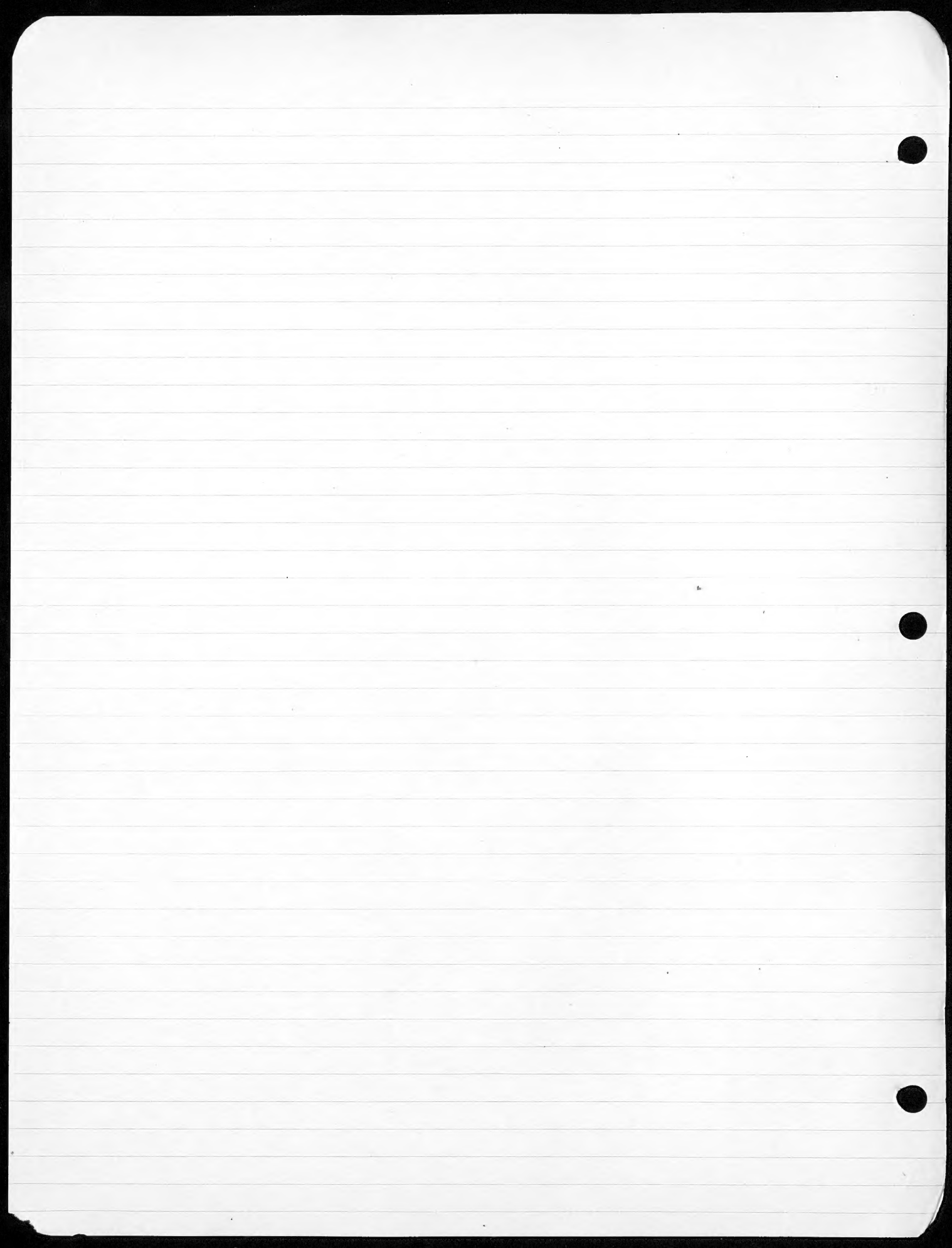
60-110 cm. Fls. purplish-wh. Simple, sess.



Toyer Gap Camp

Rain forest marginal communities

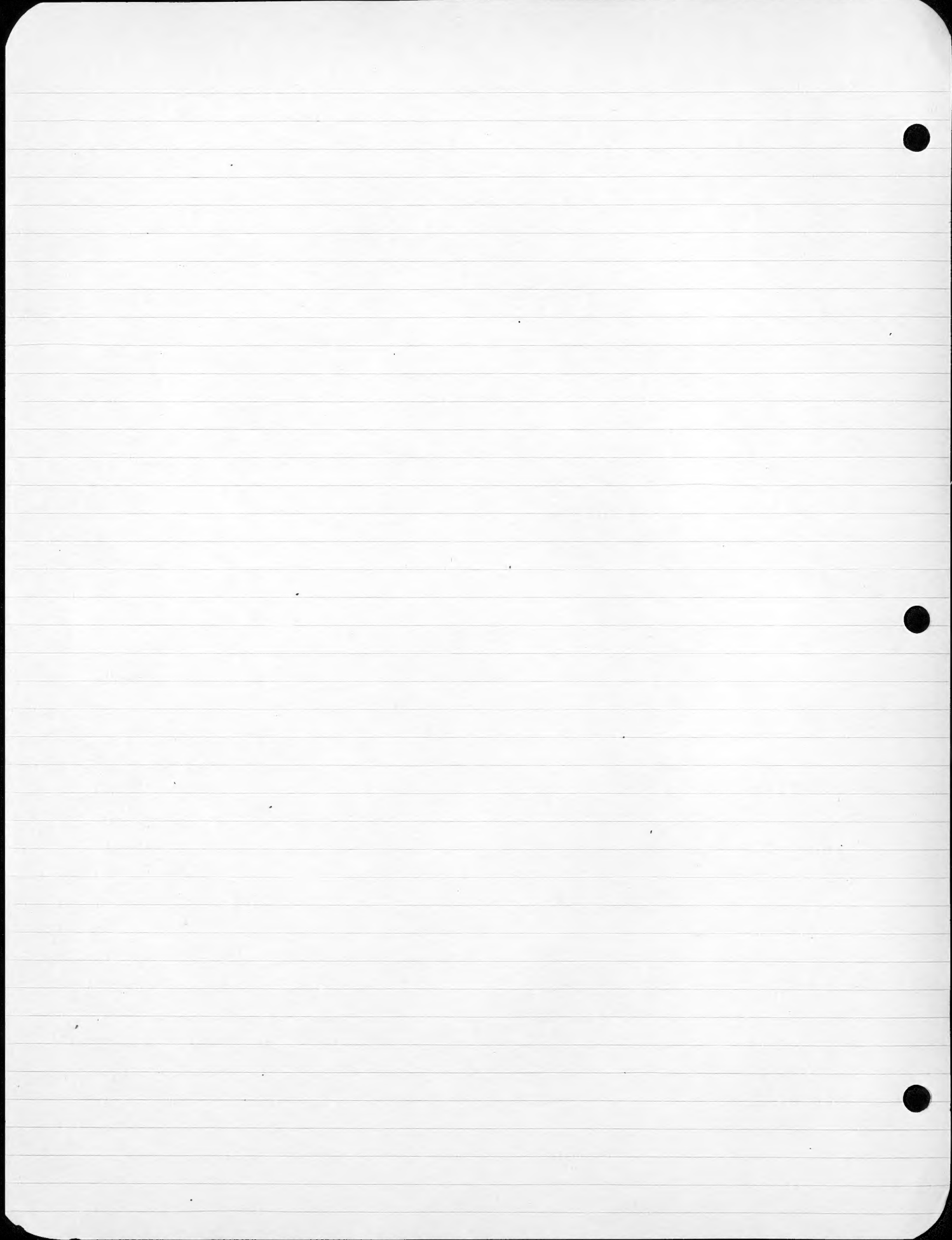
19338. *Alcant.* Shrubby borders of yully R.F. Shrub 5 m. Fl. wh. with pink spot
39. *Hibbertia* Ereg. " " R.F. Shrub 50-80 cm. Fl. pale yellow.
40. *Boea?* D. in dense ^{border} scrubberies. Shrub 1.5-2 m. Fl. deep violet.
70. *Alcant.* F. in brushy yully. 50-80 cm. Fl. pinkish. Erect simple stem. ^{Fls. in 1/2-1/4}
78. *Schin* Ereg. " " 80-140 cm. Fls. white.
79. *Tycopodium* C. R.F. edges. Shrubby 4-5 m.
81. *Fern.* Edges of yully fringing R.F. 30-60 cm.
19516. *Gleichenia* Ereg. in edges, gallery woods. 40-50 cm.
17. *Hedyotis* O " " " Shrub 60-80 cm. Leaves frag.
18. *Rub.* F. " " " Shrub 1.5 m. Fl. wh.
- ~~19. *Xanthostema* F gallery woods~~

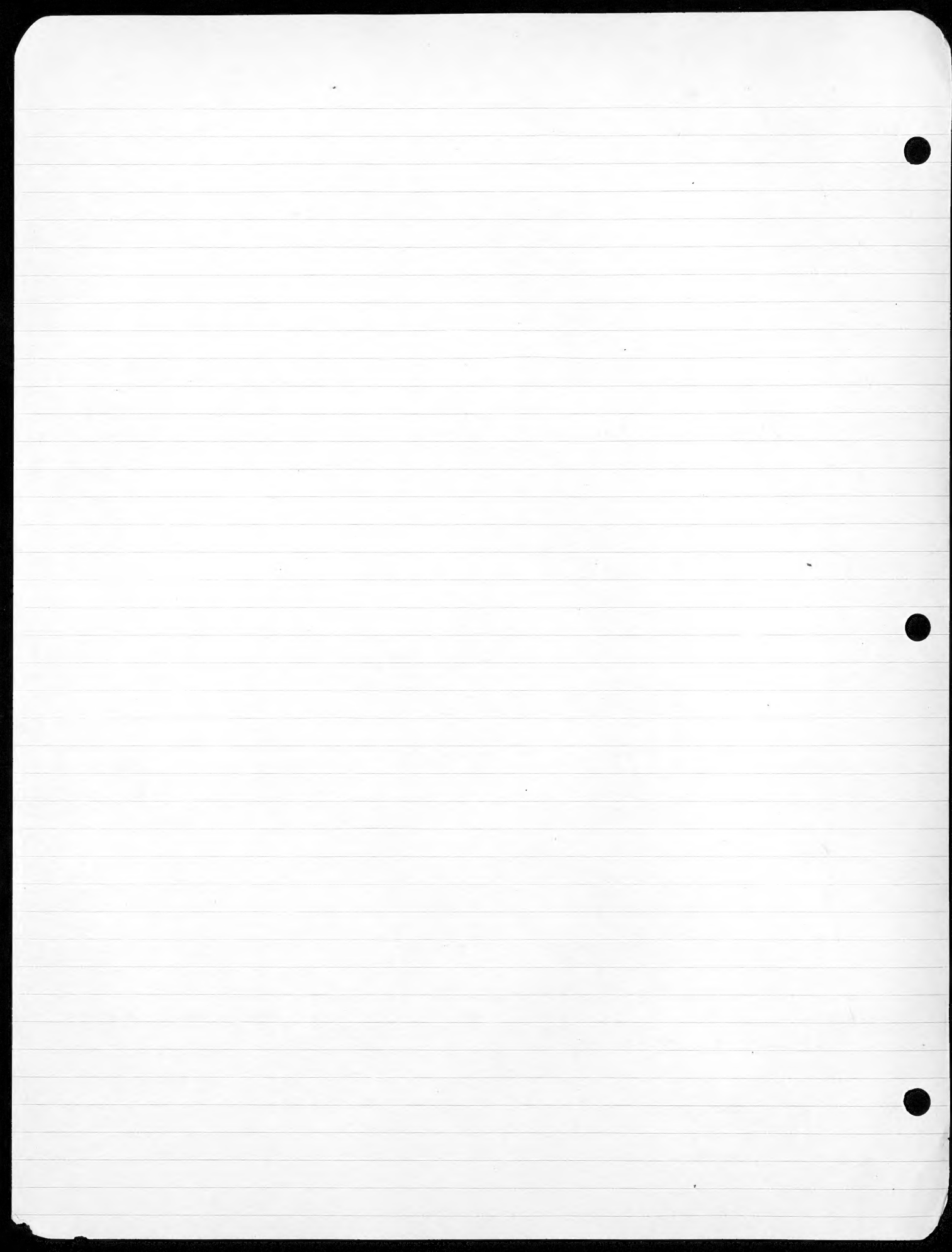


Tegay Gab Camp.

Rain forest regrowth.

19434. Leg. F. vine 2 m. Fl. pale purple. Bracts green.
35. Pipitum VB major constituent. Tree 6-8 m. Fls. wh.
36. Leg. Vine 6-8 m. Fl. yellow. Fruits metallic blue. Rain forest
37. Conoc. F. vine 2-3 m. Fls. dingy white.
41. Commel. C. locally. Herb 30-50 cm. Fls. purple- wh.





Tozer Gap, Tamp.

Savanna forest

Grass

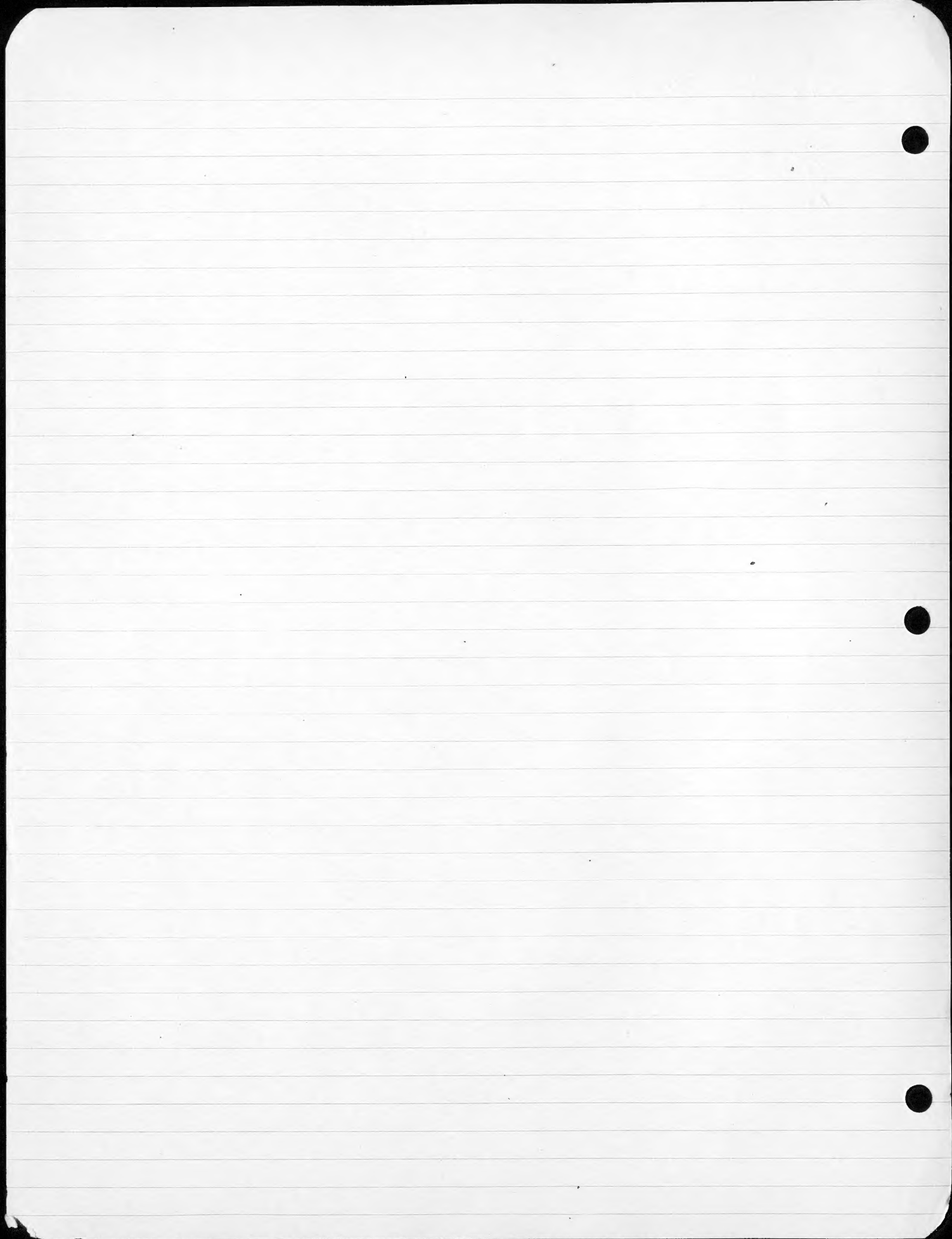
19336. *Panicum*

194123. *Sarawia*

Moist brushy banks of a gully. Ascending, 1 m.

Shaded wet banks of a stream. 25 m.

Epiphytes & Parasites



Tozen Gap Bank

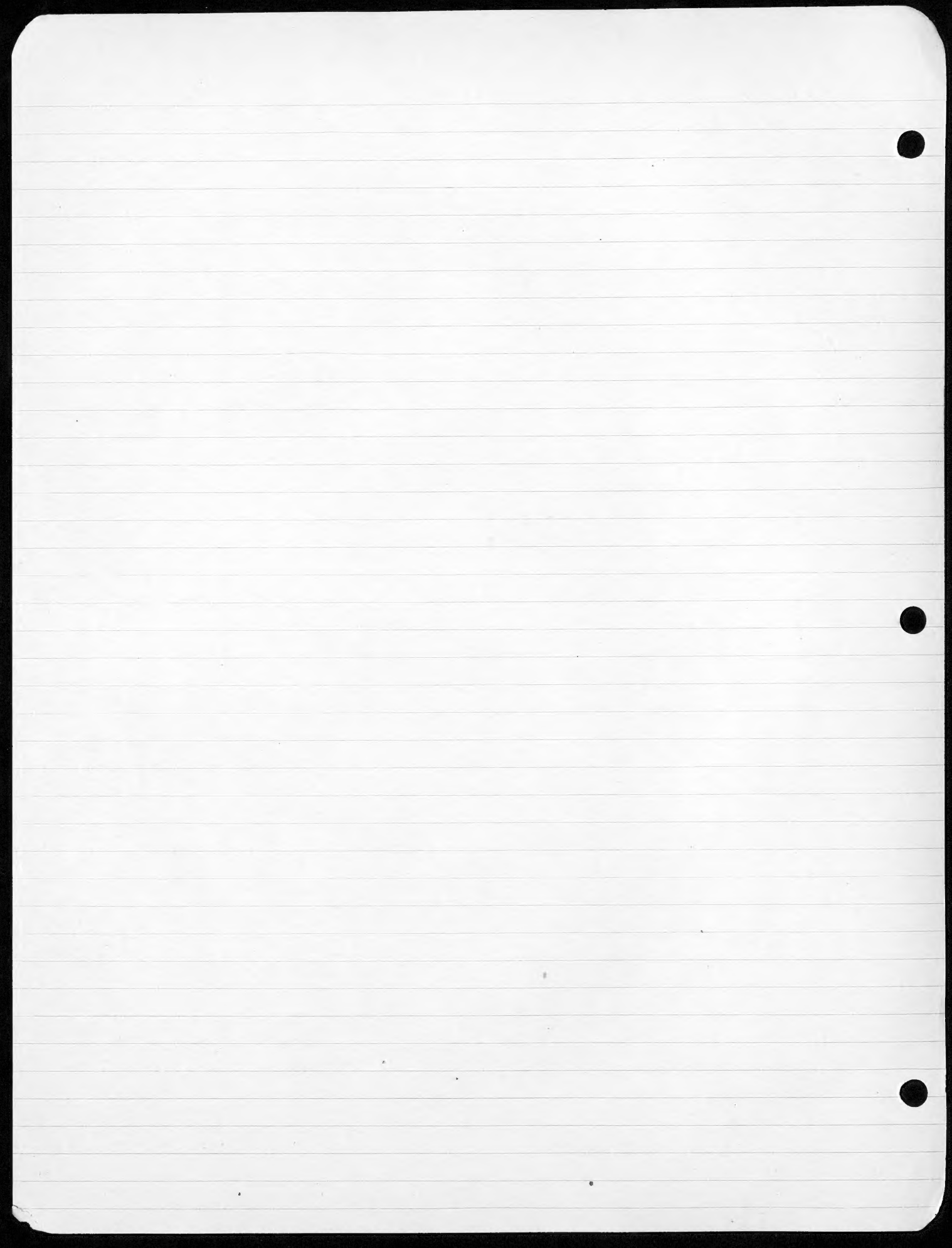
Savanna forest

Herbs

19385. *Vilceia* ^{granata} Erog. on small ~~tree~~ ^{granata} ~~tree~~ ^{granata} in sandy st. Fl. yellow.
 40. *Lil.* A. locally sandy st. 60-80 cm. Fl. yellow.
 41. *Helipinella* Moist shaded erosion banks 5-8 cm.
 54. *Sparks glottis* One plant in a swampy gully. 130 cm. Fl. pale magenta
 73. *Lob.* Fl. violet.
 19419. *Balanopsis* Moist shrubby edges of a gully. 25 cm. Fl. red. Baffone.
 20. *Brosna* S. in a moist bottom. 25-45 cm. Fl. wh. later pink.
 21. *Articulata* Moist open banks of a gully. 4-10 cm. Fl. yellow. Spots red. G.
 22. " C. " " " 4-20 cm Fl. pinkish wh. Spots ^{matte} ~~matte~~ ^{blue-yel.}
 29. *Moss* On ground where logs had been
 19507. *Polygal.* C. locally in shrubbery on rocky ridges. Woolly herb 5-150 cm.
~~08.~~ Fl. cream. Leaves very green.
 08. " O. in st. 60-70 cm. Fl. purple & wh. (C. on tip).
 15. *Hylicium* Wet banks of a gully. 4-20 cm. Fl. wh.
 23. *Haemodorum* S. 70-90 cm. Fl. red.
 19029. *Spinaeae* C. 50-70 cm. Fl. violet.

Grasses

19337. *Gahnia* P. on shrubby edges of gullies. Large clumps 60-100 cm. ^{red.} ~~Fls.~~
 43. Erog. wet sandy banks of gullies. 10 cm.
 19501. *Cladium?* ~~Cladium~~ on sandy floodbanks. Clumps ± 1 m.



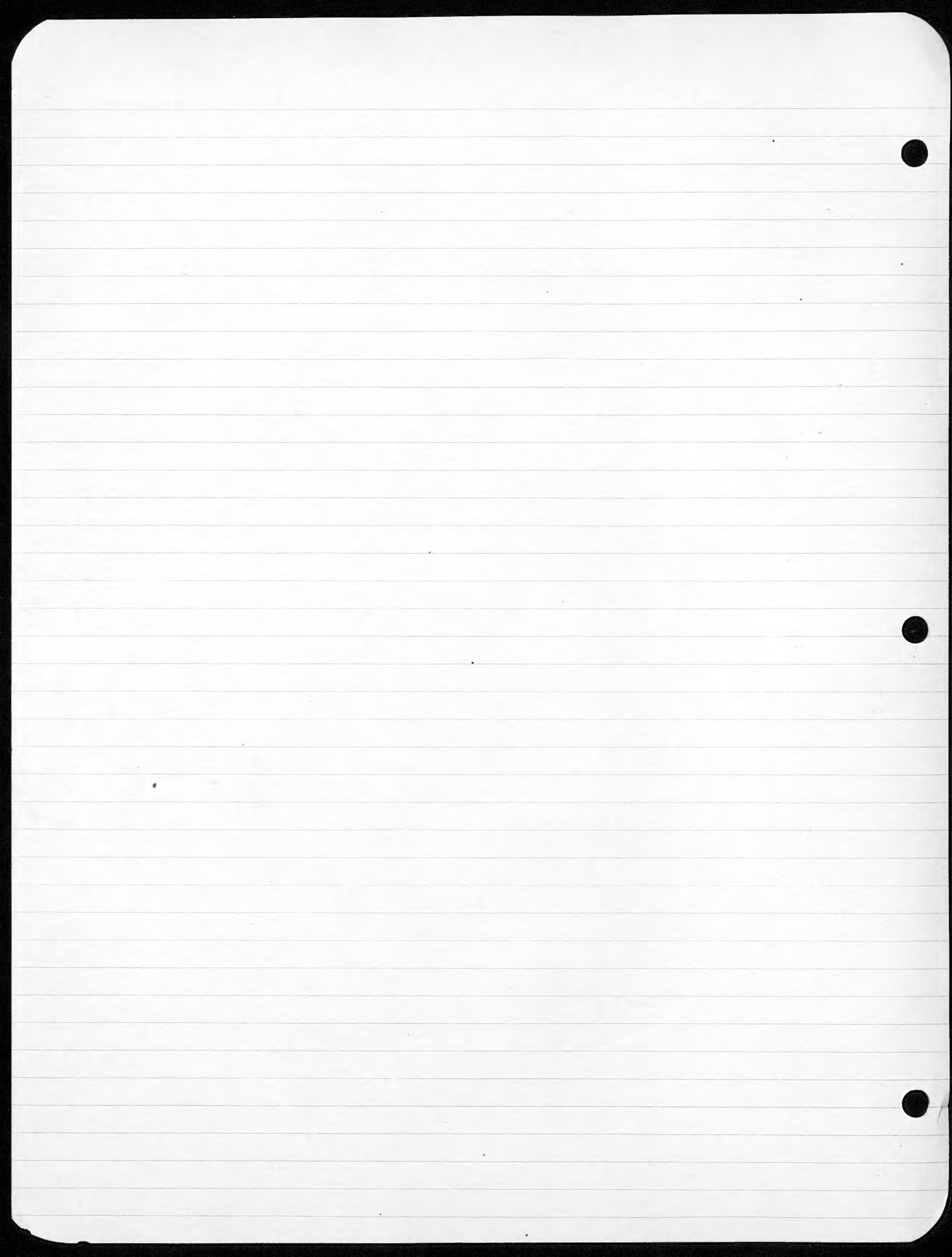
Toya Sub Tanah

Savanna forest

Virus

19431. *Sarcosoma*

Adjacent to R.F. 3m. Large cylindrical tubers 4.0 x 3.0 cm.



Toyon Sup Camp

Trunkey Bush

Trees

19528. *Mucilina chrysodendron*. F. tree 56m. Fls. golden yellow.

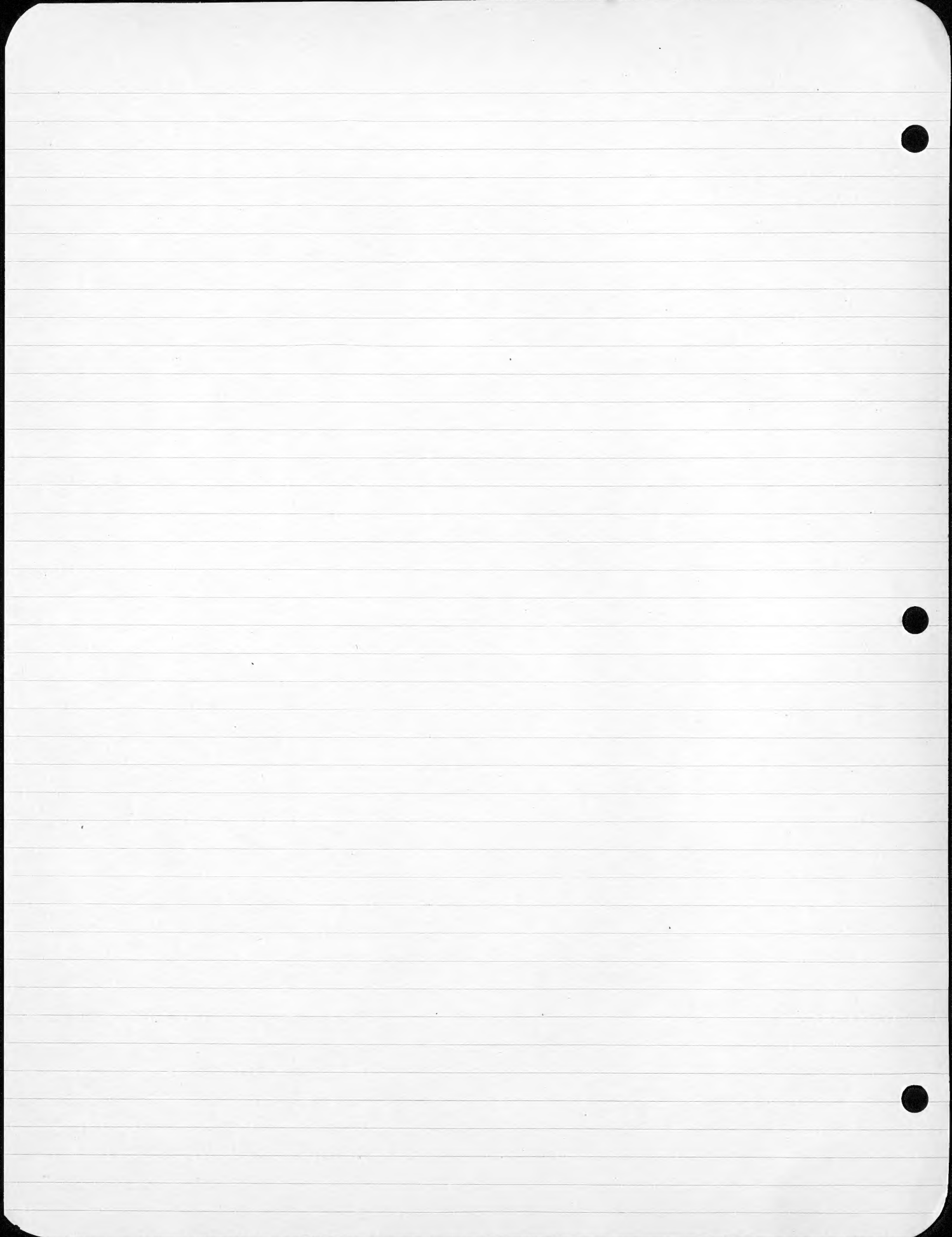
Shrubs

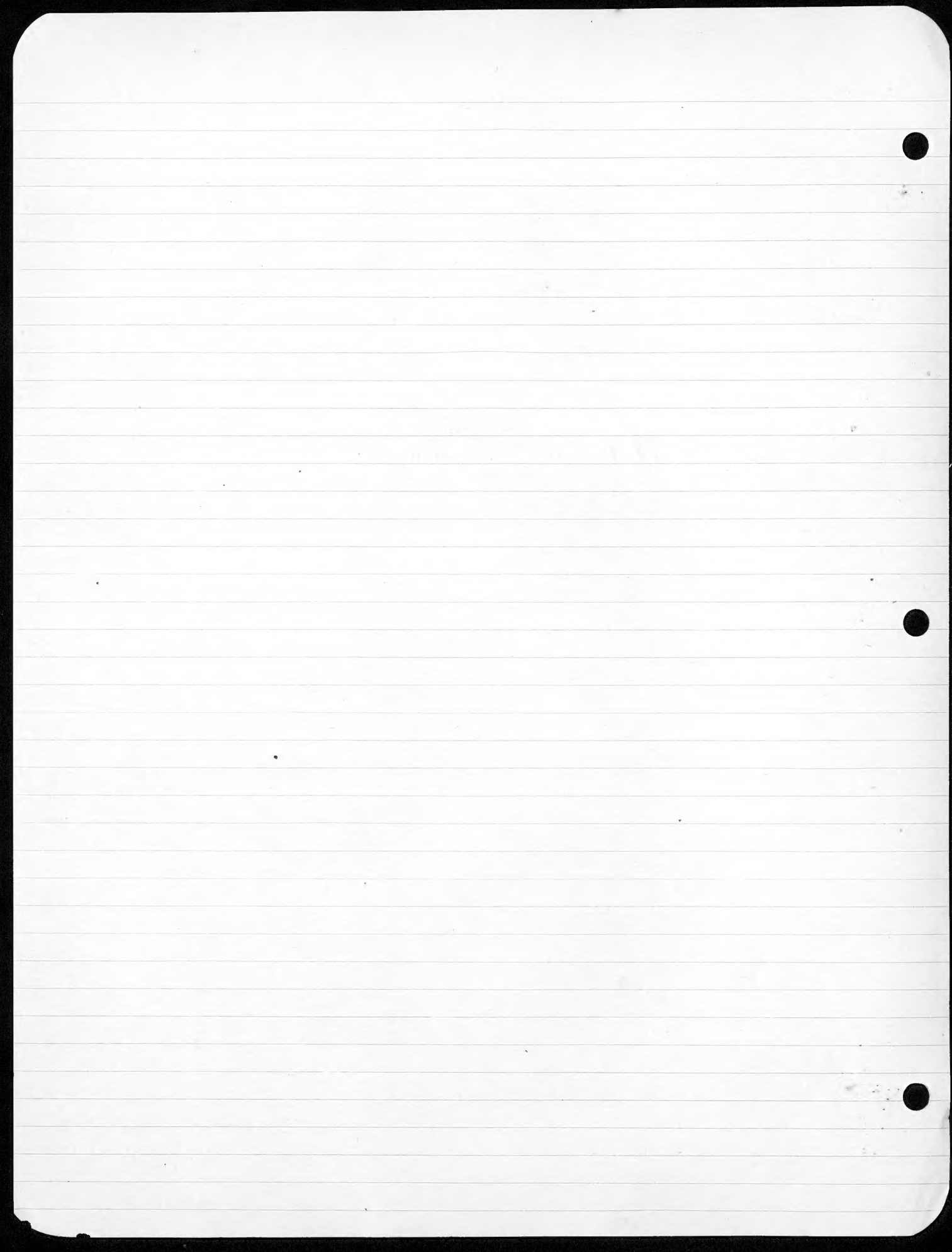
19424. *Euph.* P. in *Agave* scrub on sandy ridges. 2-3m. Fl. wh. Erect branchlet.
25. *Hibbertia Banksii*? P. " " " " 1-1.5m. Fls. yellow. Stiff leaves to below.
27. *Epanis*. S. 20-40cm. Fls. wh. Fl. ? Leaves glauc. below.
28. *Boronia* P. locally 30-60cm. Fls. pink.

19165. *Fungia*. *Thamnobasis* on sandy granitic soil. 1-2m. Abundant pink fls.

Herbs

19426. ? C. in *Agave* scrub. 20-25cm. Fls. wh, later pink as to. Fl. wh.





Summit, 300 m.

Tozer Tak Camp

Bufflelooney Peak

Rain forest

19356. *Quintinia* Tree 12 m x 25 cm. Fl. wh, fragrant. Leaves grayish below
61. *Moragobius* (Hoffm.) ^{Kunze} RT of a ravine. Tree 7 m x 12 cm. Fl. ? Fl: reddish-purple fls.
63. *Pandanus* C. (brushy RT & adjoining *Liptocarpus*?) scrub. 5-7 m. Tree label
66. *Alpinia* Shrubby forest 250 m. Vine 3 m. Fl. br-yellow. Fl: unisexual.

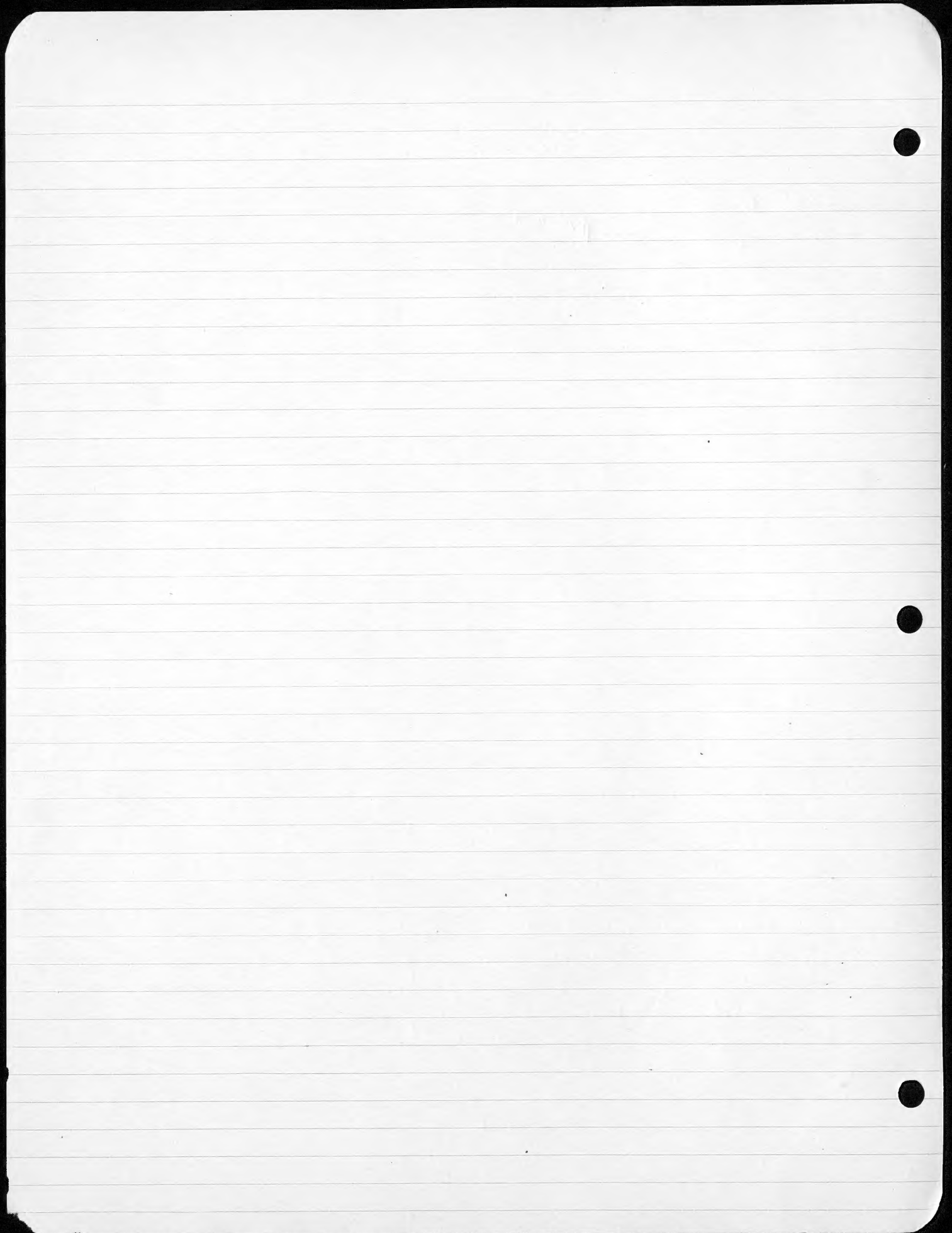
19364. *Melast.* Several trees in a sheltered chimney. 8-12 m x up to 30 cm. Fl. white. Stiff grey waxy bark.

Shrub & brushy forest

19345. *Bacca*? V.A. in scrub & brushy forest 300 m. Shrub 2-3 m. Fl. deep violet.
46. *Lepidospermum*? D. in scrub of rocky, granite summit. Tree 3-6 m. Fl. wh. Fl: Very picturesque tree with usually several contorted stems, etc. Tree label & journal "Papanone Tree"
49. *Melaleuca spathulocarpa*? P. Tree 5-10 m. a shrub on exposed bluffs. Fl. red. (Red Catra)
51. *Euph.* P. in scrub on exposed granite bluff. Shrub 50-150 cm. Fl. yellow. Leaves gray.
52. *Phoe.* Shrubbery on " " Shrub 1 m. (divaricate). Fl. wh, later pink.
53. *Euph.* U.G. of brushy forest. Shrub 1 m. Fl. wh.
58. *Phyllanthus* P. in scrub, under 1 m. (shrub). Little branched.
60. *Fern.* Scattered in semishade in shrubbery. 15-30 cm.
62. *Cladium* Scrub of summit. Few stems in leaf 90-130 cm.

Granite rocks of wind swept open summit (300m)

19347. *Ficus* Tree 2 m. Low sprawling habit
48. *Lepidospermum* Shrub 30-150 cm. Camp. wh. fls. Leaves smooth & shining. (Rock crevices on a wind swept bluff)
- also found: 50. *Hibbertia* V.A. on bluffs & in u.g. of brushy forest. Shrub 50-100 cm. Fl. pale yellow.
57. *Abutilon* Matted in rock crevices. Shrub 20-30 cm.
65. *Fern.* Bearing small soil pockets in rock crevices 250 m. 10 cm.



Tozun Range & Mt. Tozun

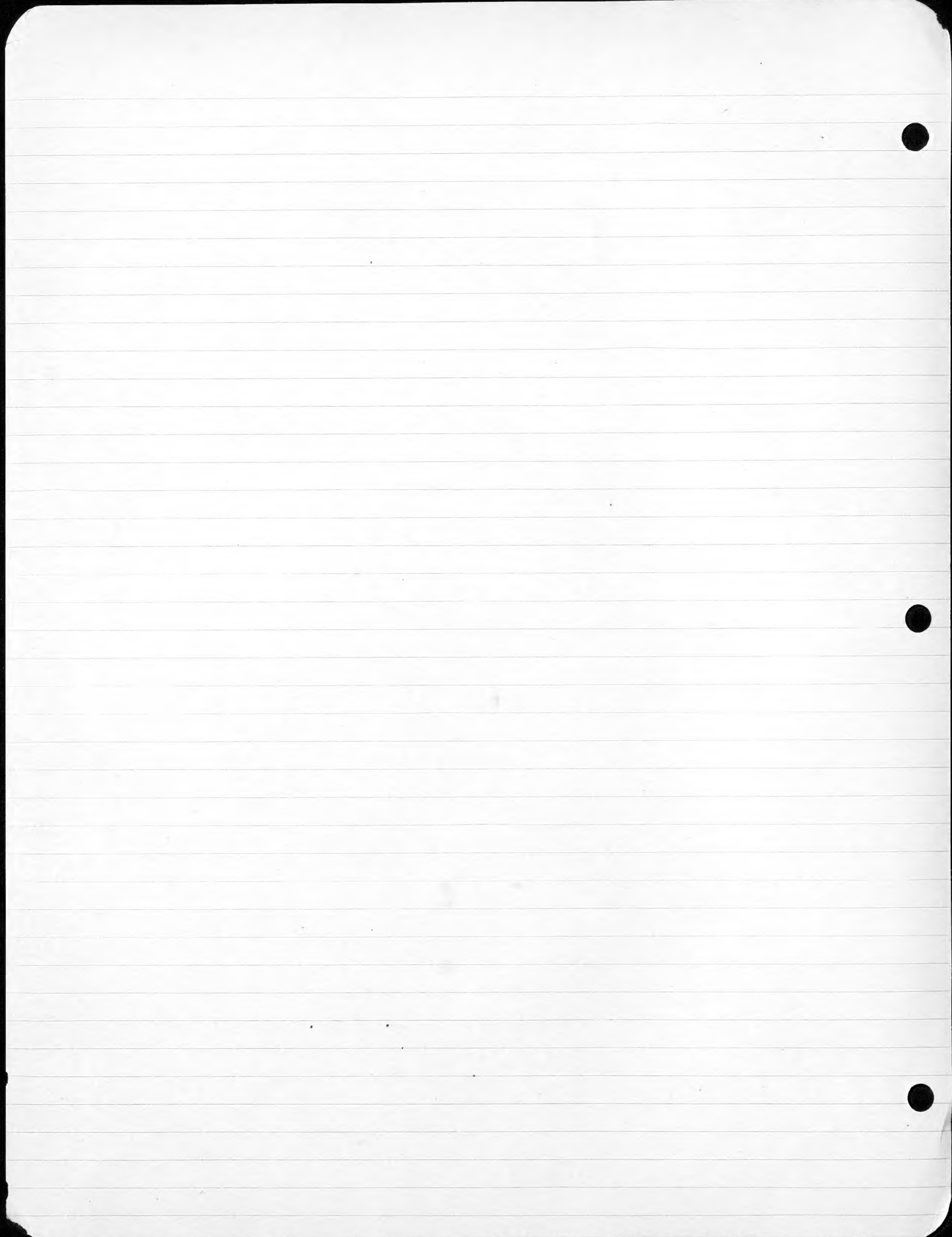
200 m. 2 higher

Rain forest of slopes - up to 400 m.

Rain forest of ~~summit~~ ^{upper levels} - above 400 m.

~~Rain forest~~ scrub of upper levels

Summit of Mt. Tozun (520 m).



Toyu Range & Mt. Toyu

Pain forest of upper levels

Trees, canopy

Long leaves

192158. *Podocarpus* C. ± 18 m \times 25 cm. Thin pub. to. fitrous bark. Very glaucous unders

65. ? F. ± 18 m \times 30 cm Fl. ? Fl: yellow.

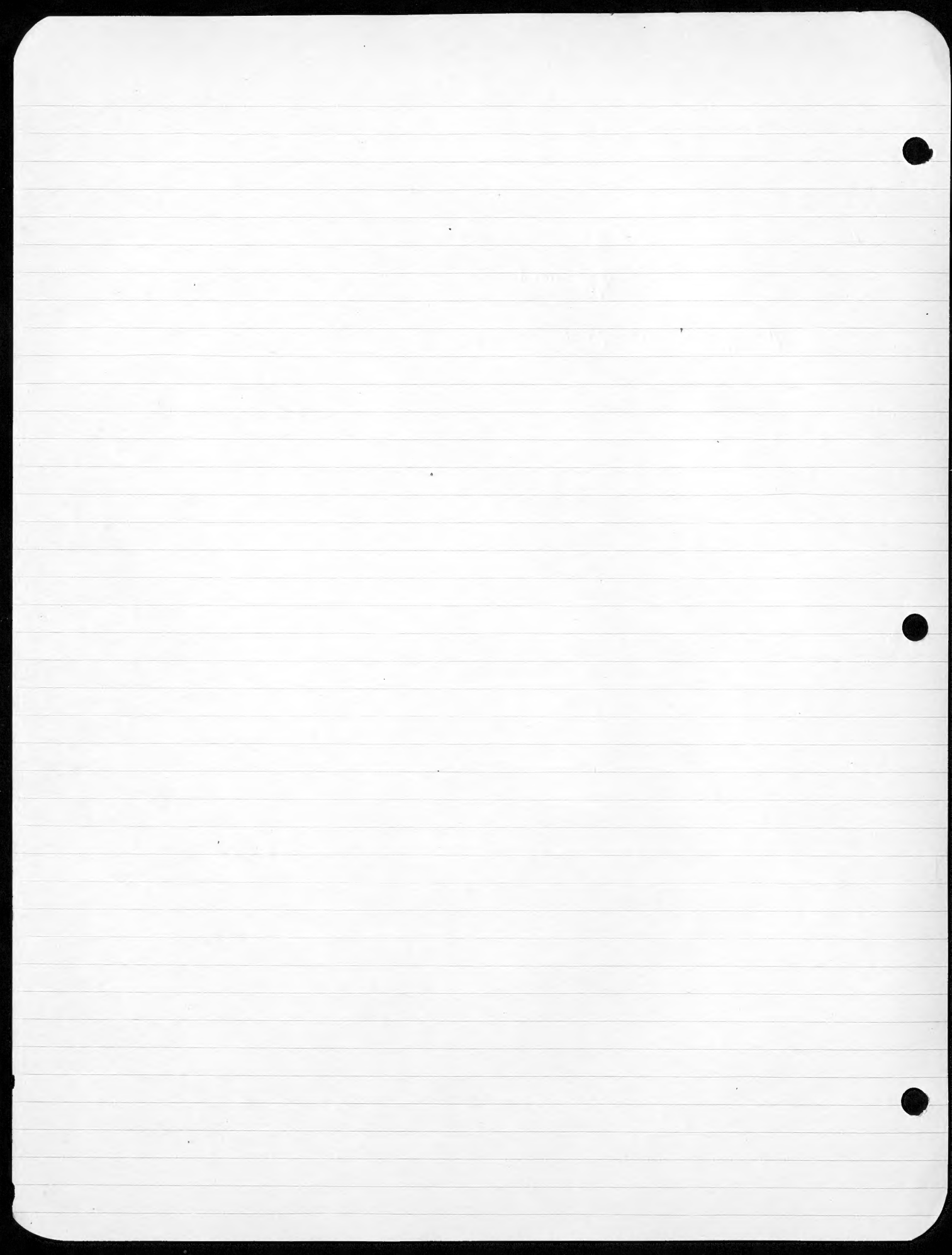
66. ~~*Chrysopsis*~~ ^{Kinohach} (*Staphylea*) F. ± 18 m \times 20-30 cm. Fl. ? Fl: yr-wh. aromatic.

67. ~~Shrub:~~ *Mercurialis multiflora* 20 m \times 30 cm. Fl. ? Fl: 4-angled, yellow, acid. Leaves 3-lobed.

Trees, subtidal

19378. *Ficus*.

On a face of granite ± 25 m. 5 m. Low, spreading habit.



Toyon Range 8 MI: Toyon

Rain forest of upper levels

Trees, substage

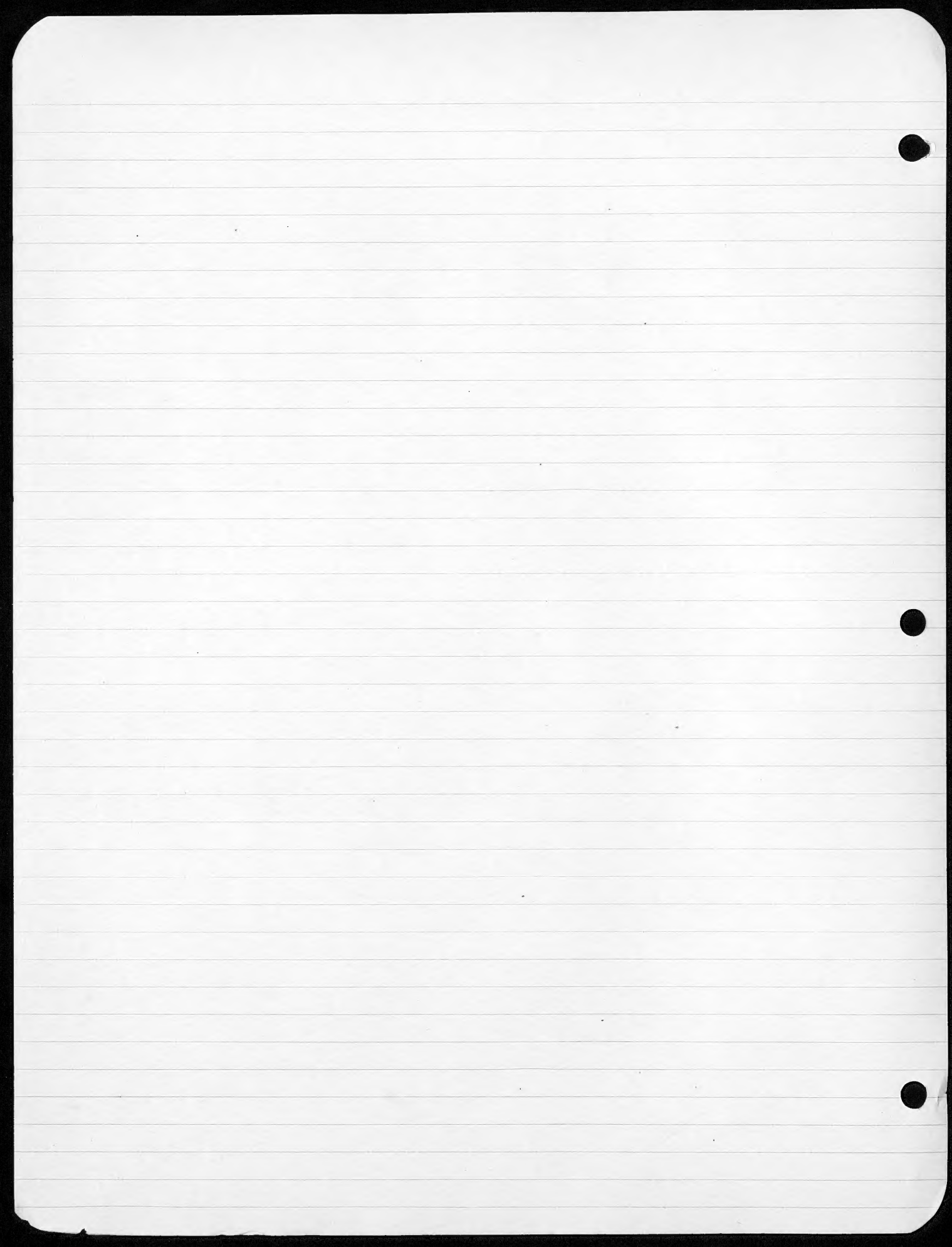
Woody undergrowth

19388. *Pithecolobium* Shrub 2 m. Fls. ? Empty fls. only.
19461. *Evatamia* Tree 4 m. Fls. ? Fl: unripe
62. *Euph.* W. char. sp. of u. f. Tree 3-4 m. Fls. wh.
63. *Papoua* Shrub 2 m. Fls. unam. Fl: ?

Mosses

19470. *Polster wood in RF floor*
72 " " " "

- 19897 *Gyneria*. A. in moist ravine 425 m. To 3 m. Plants rot. stem.



Toyon Range & Mt. Toyon.

Rain forest of upper levels

Herbaceous undergrowth

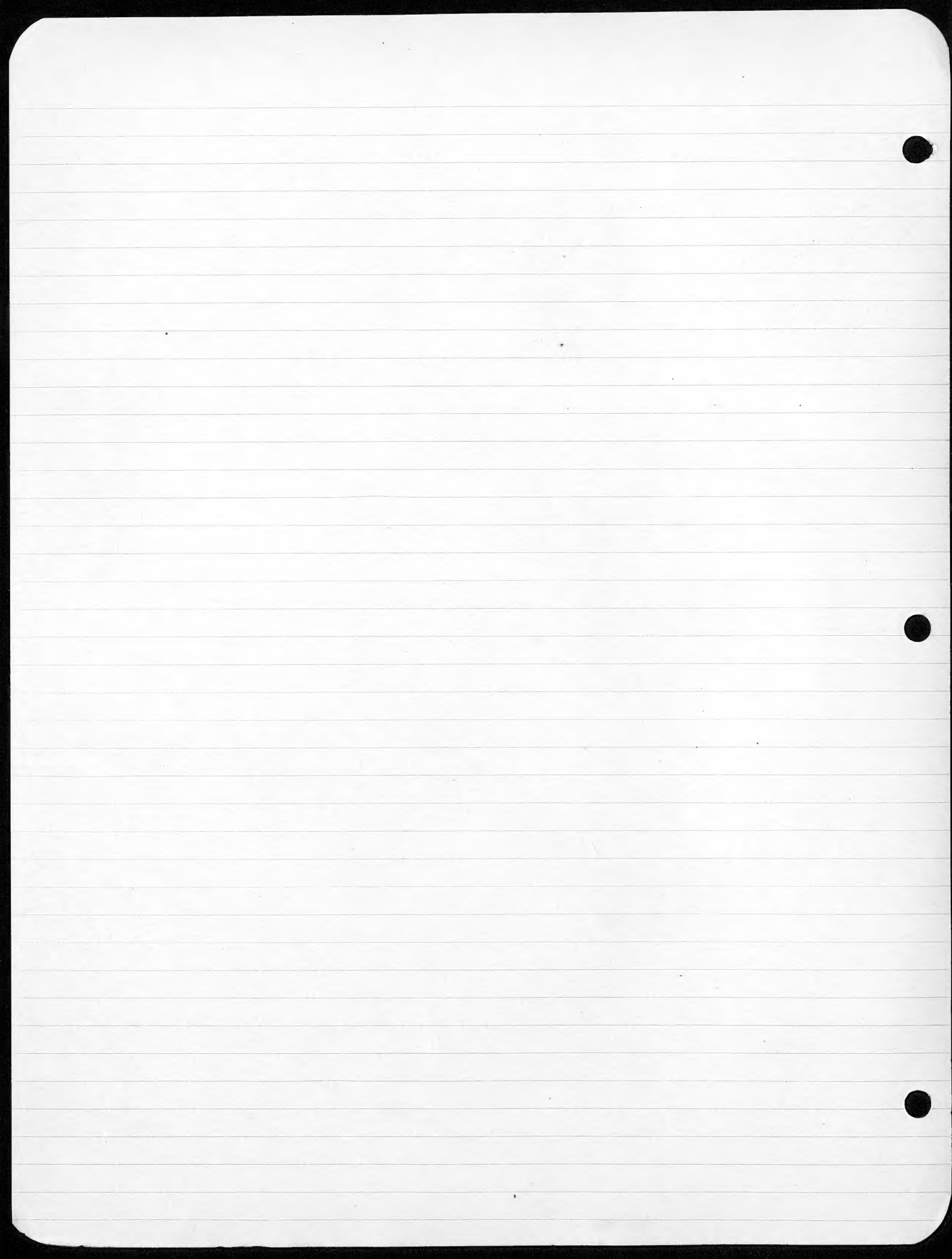
19389. *Plechnum* F. 425 m. leaf ± 1 m.
 19400. *Hymenoph.* P. moist banks of stream 425 m. 10-18 cm. Very dark green.
 02. *Tab.* Greg. semi shade on a granite rock face. 50-60 cm - Pl. 1 cm dia.
 60. *Hymenoph.* Matted on wet granite rocks in gully 425 m. (leaf 4-5 mm).
 68. *Fern.* C. 30-55 cm.

Vines

19459. *Piper* Climbing 2 m. Fl. buds elongate, red (2 x 1.4 cm).
 69. *Coccol.* F. stems unbranched, climbing 3-4 m.; plant fleshy. Sterile.

Epiphytes & parasites

19386. *Platycurium* F. Trunks 30-60 cm. dia. 425 m.
 91. *Moss.* Base of a dead tree "
 92. " Trunks of trees "
 94. *Coch.* Leaves on trees 425 m. Distichous; numerous minute br. red fls. inflores.
 96. *Fern.* Reflex or mammel rows on trees 425 m. ± 10 cm.
 97. *Hymenoph.* Carpeting bases of trees & rocks " ± 1 cm.
 19404. *Moss* Lower trunks of trees "
 05. " Dead wood.
 64. *Savallia* Rhizome climbing. Leaves ± 50 cm.
 73. *Moss* High branches of a tree.
 19525. *Dendrobium bryojoum?* F. buds only.



Togon Range & Mt. Togon

Dense scrubs of upper levels

400 m. & over.

Trees

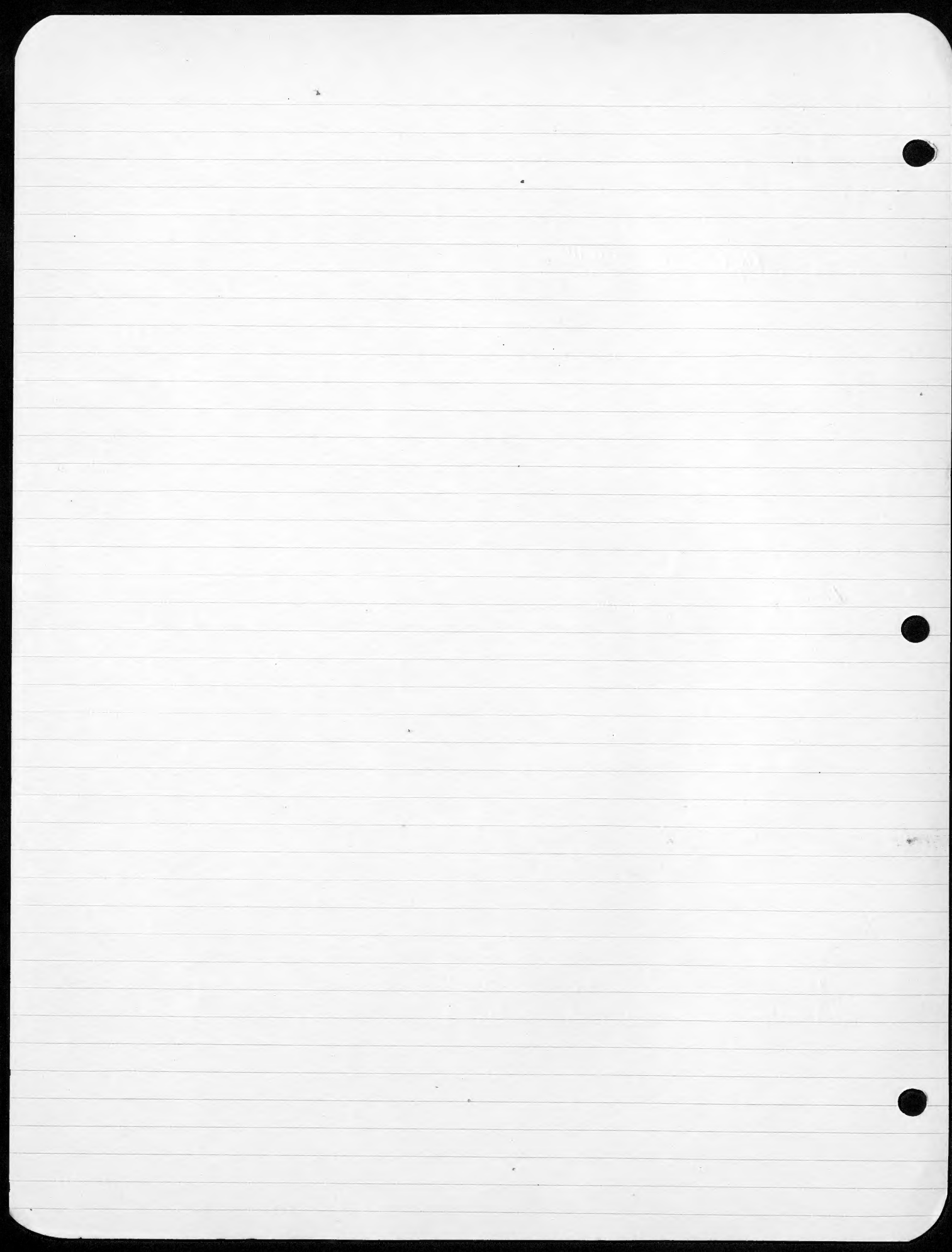
18387. *Barrucaria* ^{of major dominant}. Tree or shrub 1.5-5 m. (= 2/3 of lower country)
93. *Rhyphidocarpum bicoloratum* C. tree or shrub 2-3 m. Fl. red.
95. *Leptospermum fatiaria* V.A. " " 1.5-3 m. Fl. yellow. Fl.
19401. ? Low scrub of *Mel.* & *Barrucaria* 400 m. Tree or shrub 2.5 m. Fl. ? Fl.

Shrubs

19486. *Peruvia* ^{atutata} A. locally in *Barrucaria* - *Phallosura* scrub 450 m. ^{40-70 cm.} ~~Fl.~~ Fl. pink.
88. *Neperthes* P. in a moist gully. 450 m. Tree or subshrub to 1.5 m.

Herbs

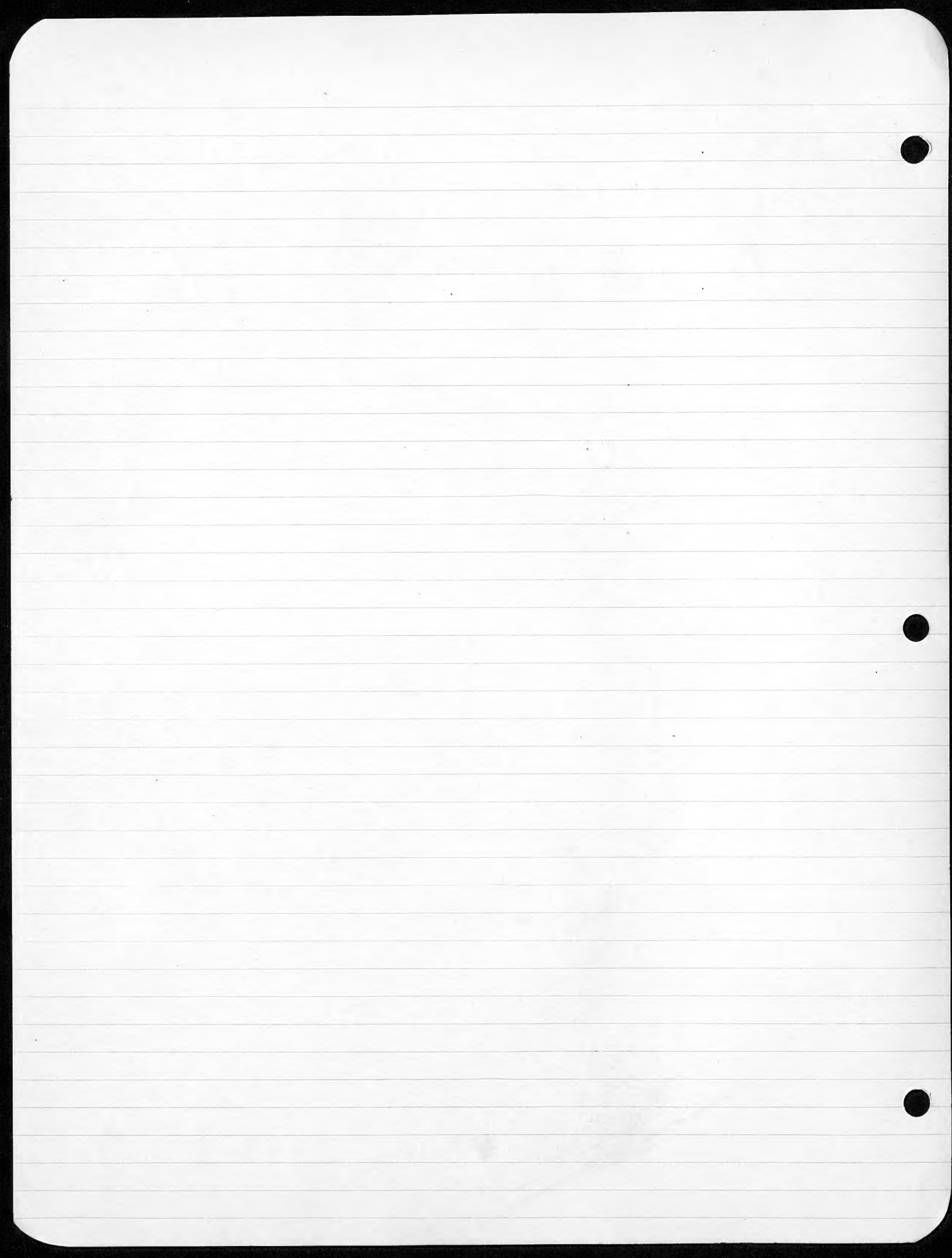
19487. *Gleichenia* A. edges of a gully. 40-60 cm. Leaves flattened.
93. " Edges of gullies. 30-80 cm. Leaves very plane. Below.
94. *Lyopodium complanatum* In gullies. 50-80 cm.



Toque Range 8 Mi. Toque

Summit of Mt. Toque (5740m.)

19477. *Metaleuca* ^{gracilissima} ~~leuc. var.~~ A. in scrub. Shrub 1.5-3m. Bark papery. Fls. green-wh.
78. *Prostanthera* ! C. shallow rocky soil exposed situations. Shrub 25-35cm.
79. *Everardia* ^{undifolia} ~~obovata~~ P. tree or shrub 1-4m. Fls. golden yellow, leaves
silvery below.
80. *Abrot.* F in *Metaleuca*-*Gomarrina* scrub. Shrub 1.5-2m. Fls. yellow.
81. *Broomia* Open sandy soil in scrub. Fls. reddish-pink.
82. *Hibbertia* A. as u.s. in scrub. Shrub 30-40cm. Fls. pale yellow
Leaves gray below.
83. *Epistemon* ^{sp. nov.} P. in open rocky situations. Shrub 25-50cm. Fls. cream. H: 1.5
16cm.
84. *Hedyotis* Rare shrub 50cm. Fls. wh. stiff fleshy leaves. (U.S. shrub)
85. *Leptospermum* "Japanese tree" A. open exposed rocky places. ± 1m. corolla
& often sprawling. Fls. white.
90. ? *Mitrosaceae* ? C. open rocky situations. Shrub 15-20cm. Fls. wh. like *Salmonia* pink
91. *Utricularia* Small patches of moist soil in crevices of exposed granite rocks
92. " 8-17cm. Fls. purple & blue
" " " " 2-5cm. Fls. dark purple.
86. *Moss* Seepage - moist places on exposed granite rock faces.
87. *Asplenium* Living branches in scrub.
19512. *Senecioium* P. on bare granite rocks. 10-25cm. Papery cream fls.



1816 60 m.

Browns Creek, Pascoe River

Gallery rain forest

Bushy forest of ^{floodbanks} islands in creek

Savanna forest

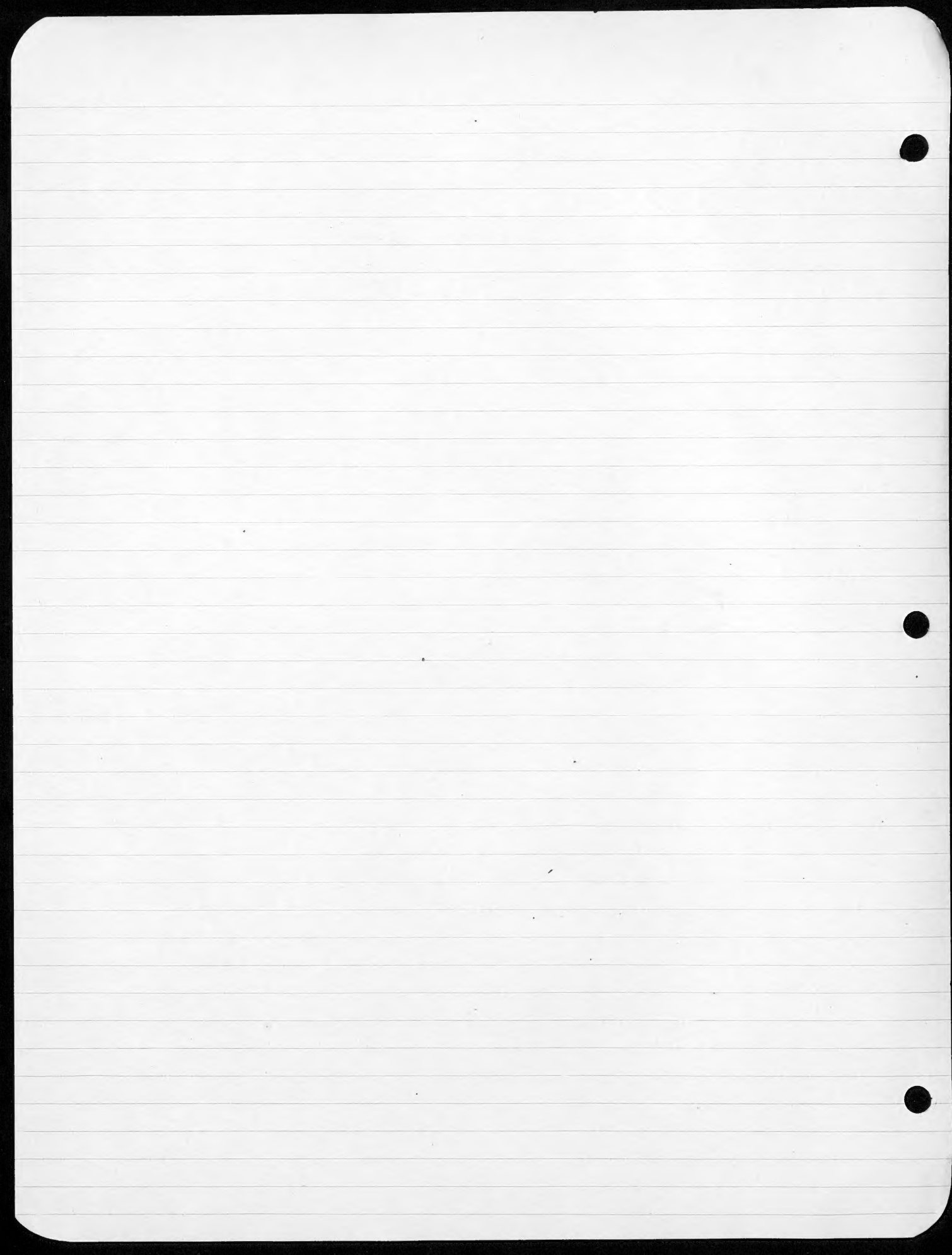
Turkey bush

Leptospermum (?) sp. 6.

Pos islands. (Pitcher-plant bog).

Shrubby growth on low floodbanks of creek.

1956. *Thana submellesia* Wordsley. Totally submerged in rocky shallows of creek.



Prunus tree

Galium rain forest

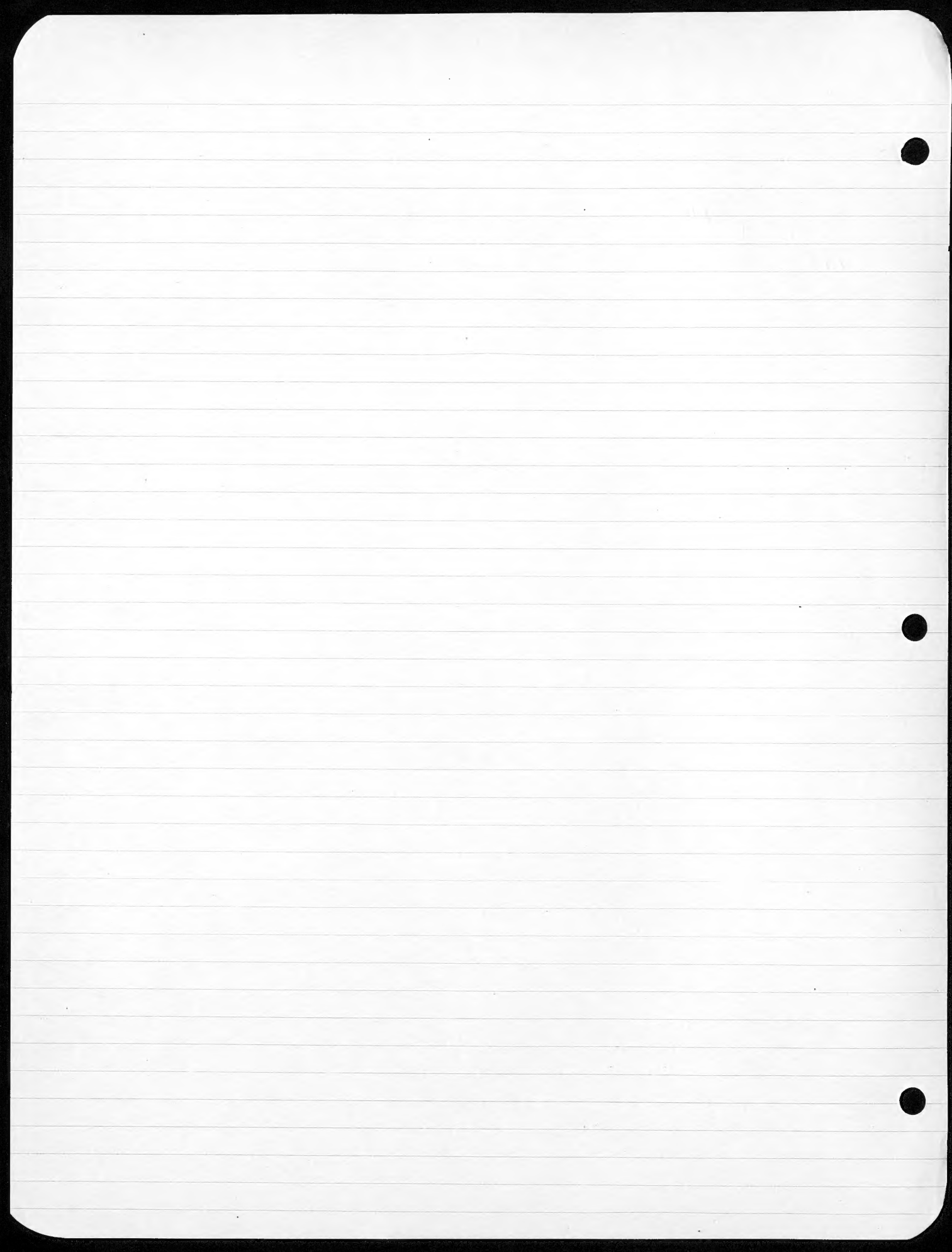
Trees

Mitrosideros luteo-pilata

19591. ~~Xanthostroma?~~ C. on flood banks. 6-10 m. fl. ? Fls. grey bark.
19645. *Rapanea* 5-6 m. fl. ? fl. purple.

Vines

19586. *Morinda reticulata*. Twining & climbing 7-8 m. fl. cream. Shrub-like woody stems
pale green below.



Brown's Creek

Bushy forest of floodbanks & islands in creek

Trees

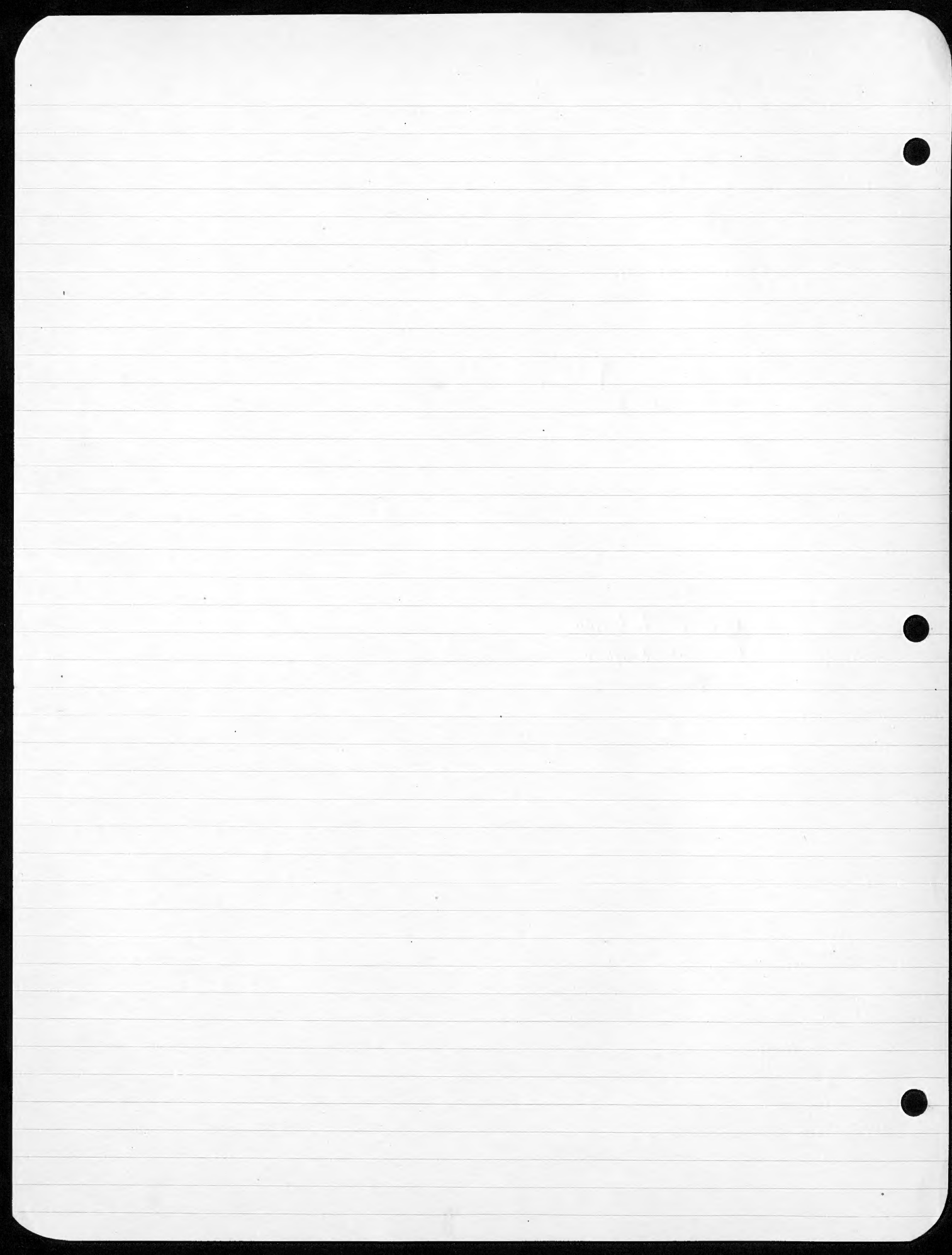
19185. *Callitris*. C. on gravelly low floodbanks. $\pm 18m \times 85cm$. Leaves dark green. Bark grey, fibrous, shallowly fissured.
19538. *Euphorbia?* ^{*Andriandrom glauca*} C. 4-5 m. Fl. ? Fl. purple-black.
40. *Pandanus* F. 4-5 m. (= small sp. of *Pandanus* Bay & Toga Range?)
79. *Euph.* 10m x 15cm. (In tertiary bush as a shrub. Also *Mossi River*.)
82. *Pod.* (*Panicum?*) ^{*gallipum*} 3-6 m. Fl. gr. wh. Fl. 7cm.
19604. *Carallia hachiate* F. 10-12m x 20-25cm. Fl. gr. wh. Fl. ? Bark pale to, soft & corky

Shrubs

19531. *Myrtus* F. 1.5 m. Fl. ? Fl. unisexual.
37. *Ficus* Bushy islets. 1-2 m. Leaves brown.
56. *Aral.* O. 2 m. Fl. yellow. Fl. black.
59. *Hydrocotyle bicolor* 1 m. Fl. ?
74. *Panicum Dalzielii* 1.5 m. Fl. ? Fl. gr. yellow, dehiscence fl.
81. *Cyperoid* One or two on creek bank. 2.5 m. Fl. cream. Fl. ?
89. *Ischaemum* Scattered on moist banks.

Herbs

19557. *Scleria*. Ery. in semi-shade 100-150 cm. Stems pubescent.
58. *Panicum* Moist shady banks of cks. Spreading & ascending 50-60 cm.
19605. *Fern.* Ery. in semi-shade. 30-50 cm.



Mesquite forest of sandy ridges.
 Bloodwood forest of low " "
 Bloodwood & mesquite " " "

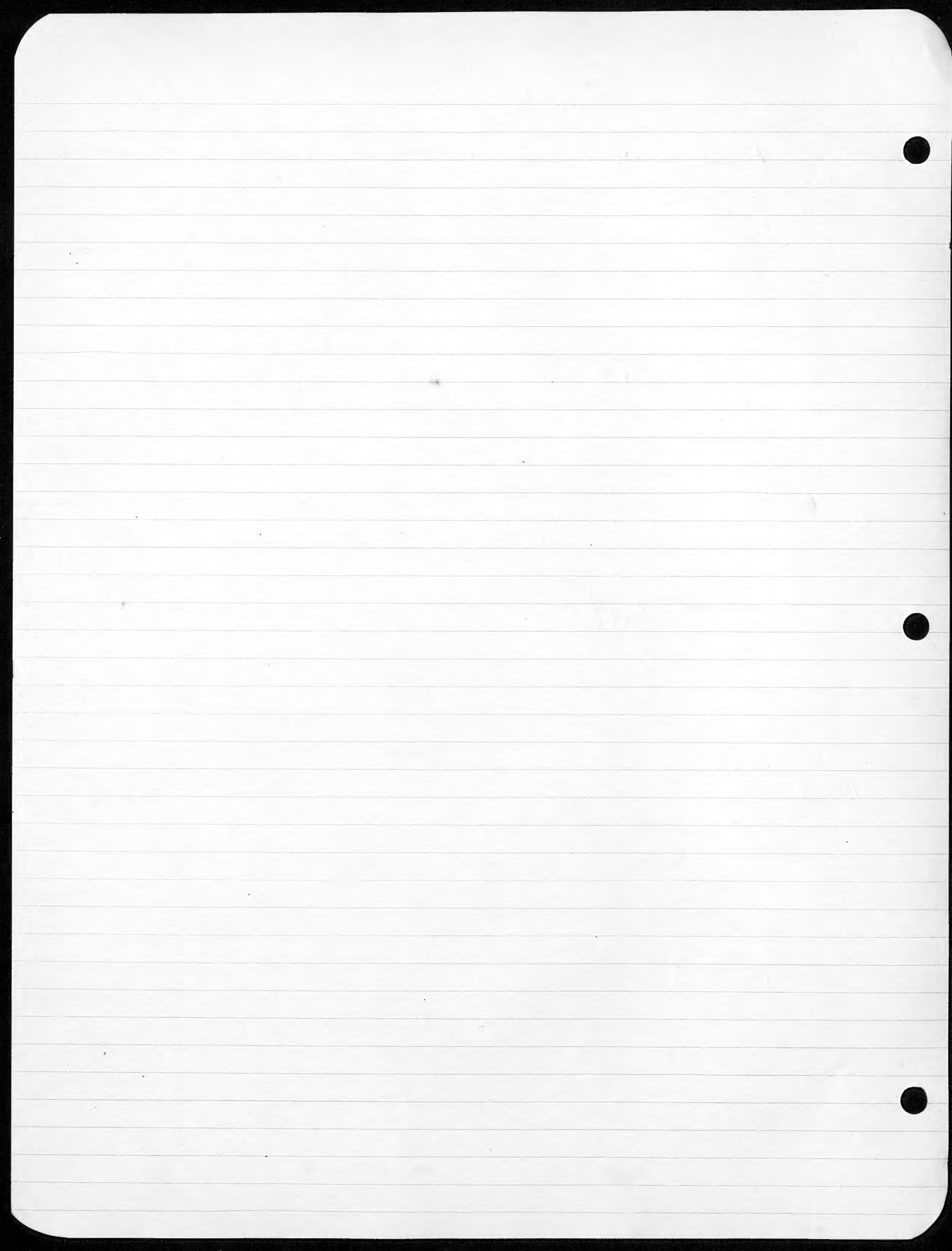
Brown's Creek

Savanna - forest

19643. *Cochlospermum*. O. on high banks of streams & rocky bluffs. 5-10 m x 20 cm. Fl. yellow. Stems dark grey black. Shiny yellow fls. deciduous with few leaves.
19180. *Cassipouira* F in bloodwood st. To 10 m x 15 cm. Fl. yellow. Stems dark grey black.
19554. *Eucalyptus* Bloodwood. Often principal tree on sandy ridges. 10-20 m x 15-50 m. Fls cream.
79. *Alphitonia* O. in bloodwood st. 7-8 m. Fl. orange.
80. *Emvilia striata* O. " " " 12 m x 20 cm. Fls cream.
83. *Entolasia*? Scattered on high dry creek banks. 5-6 m x 12-15 cm. Fl. ? Fl. cream.
84. *Mitelaena* ~~florosa~~ Several trees 6-10 m. on a scrubby granite bluff on creek. Brown underneath shaped; bark grey, papery. Scale bark 2/3.
19630. *Euc. leucostoma* Mesquite. A char. tree of flat sandy ridges. To 25 m x 35-40 cm. Fls cream. trunk straight; grey stringy bark.
89. *Xylocarpum* O. in mesquite/bloodwood st. 6-8 m x 12-15 cm. Fl. ?
82. *Myrsine* *lancea* *lancea* var. Scattered on banks of watercourse. To 25 m x 30 cm. Fl. wh. whitish/purple bark.
50. *Pandanus* A moist yellowish creek fls. 7-10 m. very large fruit shell.
- Shrubs
19164. *Xanthorrhoea* V.A. in mesquite forest. Total height to 2.5 m. stem 1, 20-30 cm 50 cm.
66. *Helicteres angustifolia* in grass & shrubby v.g. of mesquite st. Branch 1.5-2.5 m. Fl. purple.
75. *Dioscorea* ~~sp.?~~ *sp.? Erect shrub 20-30 cm. Fl. orange.*
81. *Hibiscus* C. in st. (bloodwood/mesquite) at camp. 2-3 m. Fl. wh. throat purple.
87. cf. *Senecio* P. in bloodwood st of sandy ridges. Prostrate branches to 80 cm long. Fl. ? Fl. ripening underground.
88. *Mimosa reticulata* J. in bloodwood st. 50-60 cm. Branches upright.
99. *Rub.* Eng. small groups in bloodwood st. 1 m. Fls green. Fl. ?
19608. *Mitelaena* Moist sandy flood bed of ck. 2 m. Shiny rose purple fls.
34. *Hibiscus* F bloodwood/mesquite st ridges. 60-80 cm. Big pale yellow fls. Lower silvery-pink. below. (Sarcodes also).
38. *Ucacia* P. in mesquite/bloodwood st. 2 m. Fl. whitish. Stem usually 1.

Herbs

19168. *Halimolobos* C. locally in mesquite st of sandy ridges. 60 cm. Fls. yr. Fl. red.
82. *Alcañal* O. open grassy creek fls. 30-50 cm. Fl. pale purple.
87. *Thymocace* C. sandy st. 20-30 cm. Fls. lavender
19536. *Muhlenbergia* Sustain in grassy flood bed of creek. Ascending stems to 1 m. Fls. blue
67. *Cony.* F. dry stony hillside. Spreading branches 5 m long. Fls. blue
75. *Thymocace* One plant on open sandy flood bank. 35 cm. Fls. lavender. Ascending
77. *Alcañal* C. open sandy flood banks. 30-50 cm. Fls. wh. speckled pink.
82. *Phytolacca tenuis* " " edges of creek. 30 cm. Fls. yellow.
19640. *Phytolacca* P. on moist hill (beds in a creek. 5-30 cm. Fls. white
41. *Utricularia* Scattered " " " " Fls. yr. yell. 10-25 cm.
42. " " " " " " Fls. pink & blue.



Proctor's BK

Savanna forest

Grasses

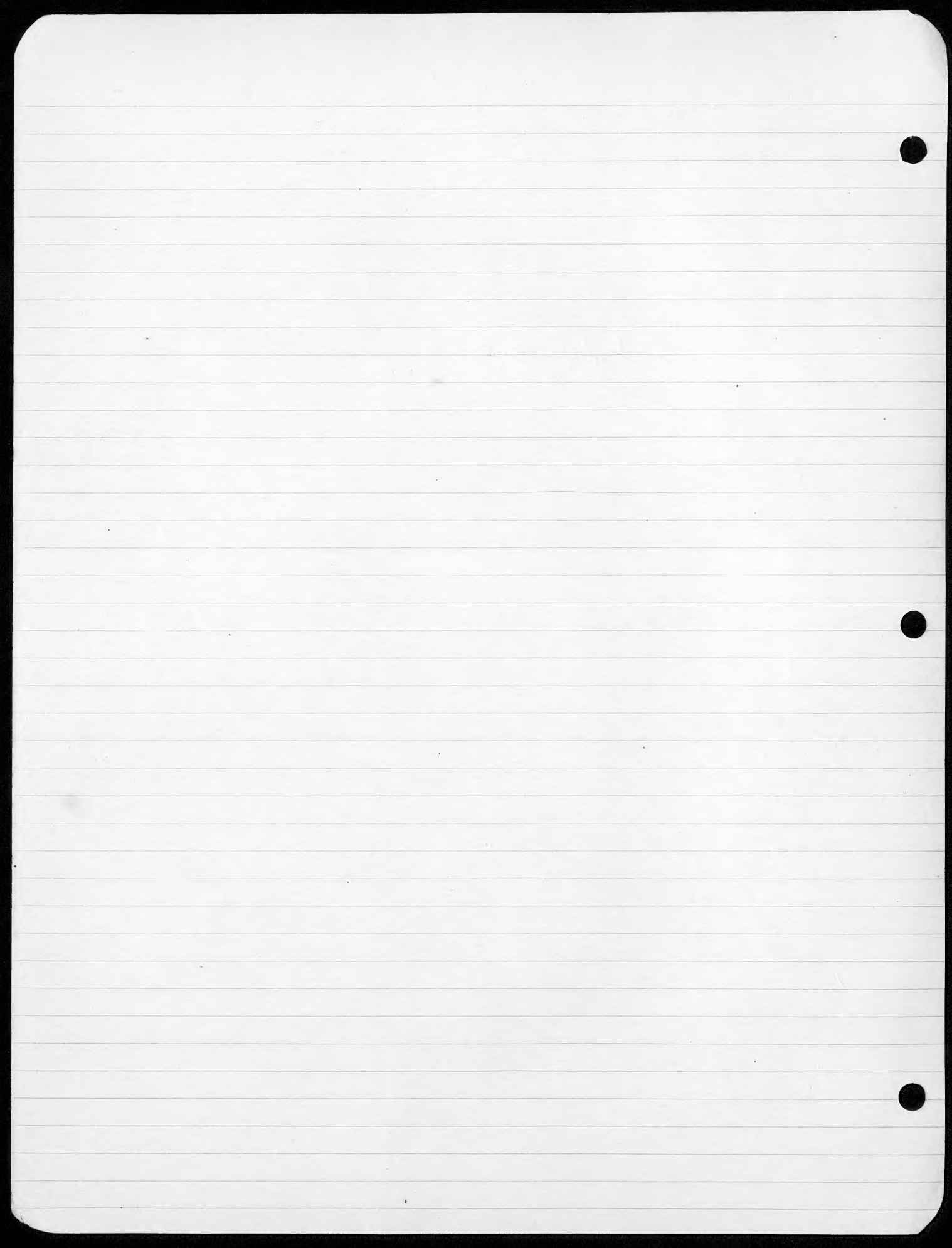
19532. *Bristlechoa*? Tufted on open sandy floodbanks. 40-60 cm.
 33. A. in sandy flood channels & on higher sandy country. Clumps 1 m.
 35: *Heteropogon insignis* Scattered in open sandy floodbanks. Tuft-clumps 1.5-2.5 m.
 19628. *Aristida* ^{brassicae} C. in murrelets SF: ^{tuft} Very tufted 120-150 cm.
 29. *Aristida* - like *trichanthus* ^{most} (one of major grasses in murrelets) / Woodward SF: Very clumpy 110-200 cm.
 35. Rockside in SF. 40 cm. Spikes purplish.
 39. *Panicum* Greg. on drying silt in creekbed. 15 cm.

Sedges

19541. *Phymatopteris*? Wet sandy edges of a waterhole in creek. Tuft 80-110 cm.
 42. *Cyperus* " " " " " 30-50 cm. 3-angled leaves stems
 43. *Furcraea* " " " " " 40-50 cm.
 44. *Cyperus* 1 plant " " " " 60 cm.
 45. Tufted " " " " 20-35 cm.
 46. *Furcraea* Scattered " " " " 80-100 cm. Thick soft 5-angled stems.
 47. One tuft " " " " 40 cm.
 19606. *Scleria* Open sandy floodbanks. Clumps 70-120 cm. Heads white.
 31. ^{*Scleria*} ~~*Stoebium*~~ Principal ground cover of murrelets / Woodward SF & Agonis scrub.
 Clumps of numerous wing stems 50-70 cm.

Vines

19534. *Coum.* Climbing 2 m. or prostrate & spreading. Fls. pink.
 19632. *Fernyha.* C. on grasses & sedges in SF: Fls. cream.
 36. *Loranthus* On murrelets trees. Proliferant 1 m. Fls. yellow & red.
 37. *Viscum* On *Loranthus* sp.



Trees

Trees

19174. *Mimosa chrysoedra* P. Slender tree 3-6m. Fls. rich golden yellow.
 19563. *Acacia* C. overtopping tree 6-8m. Fls. yellow fr. ± glaucous (at 40. RR. 8) ^{at 40. RR. 8}
 94. *Eucalyptus* Local .. 10-12m x up to 30cm. on sandy ridges. Fls. ?
 Bay-barked stem; smooth grey branches.
 98. *Melaleuca* S. overtopping tree 8-10m x 10-20cm Fls. ? Slender, straight
 trunk; small crown; profuse grey bark.

Shrubs

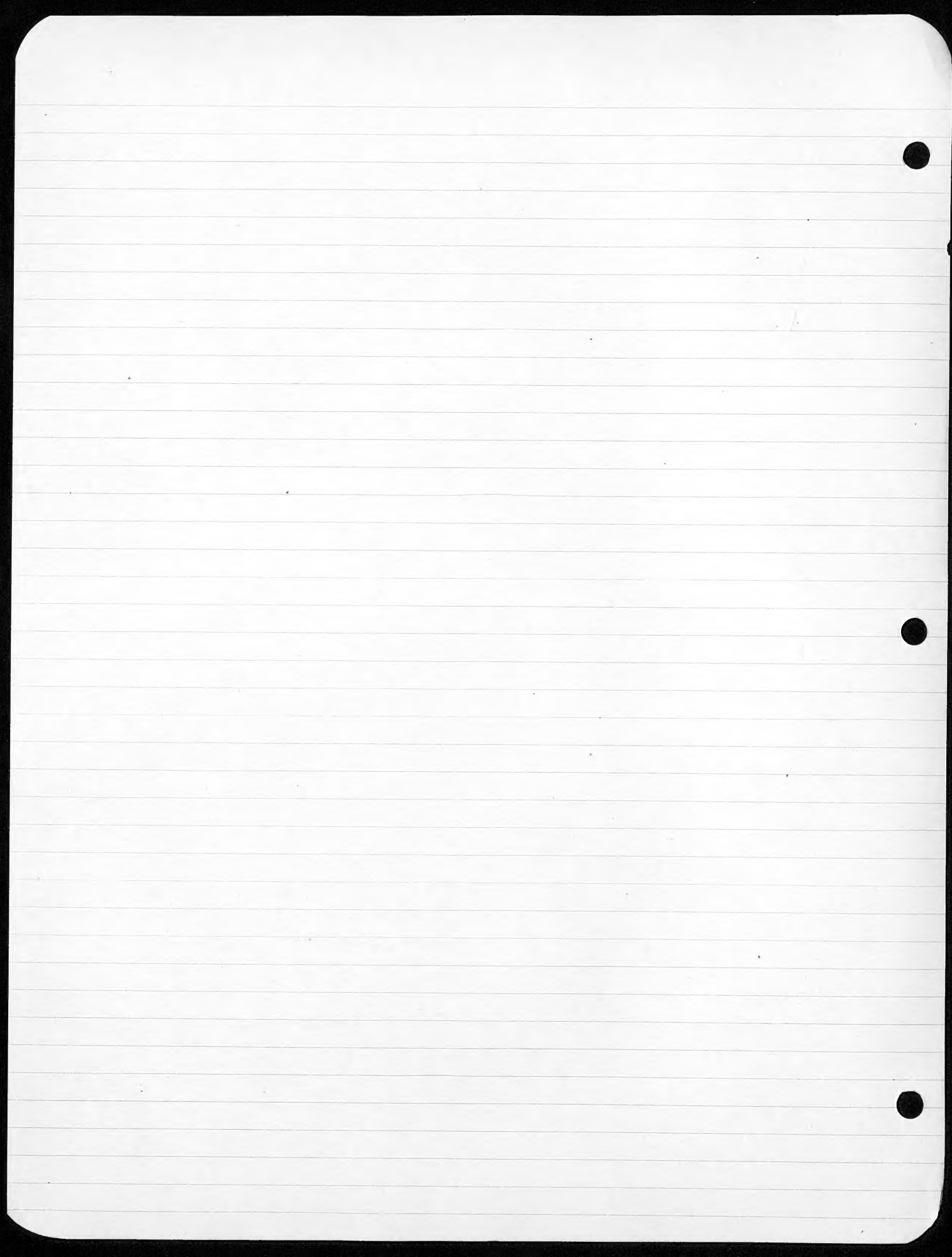
19169. *Baeckia* ? O. in scrubberies of sandy ridges. Bushy, 50-60cm. Fls. white.
 70. *Euph.* F. Slender, 1-2m. Fls. yellow. Leaves stony
 above, grey below.
 71. *Argemone* One of the chief species. 1-3m. Fls. wh.
 72. *Fungia* Locally D. 2-3m. Fls. pink.
 73. *Lycium* P. locally. 1-2m. Fls. yellow. Leaves grey-green
 76. *Pithecolobium* C. .. 1-1.5m. Fls. purple
 77. *Mimosa Guyanensis* ? Unc. stony ridges. 40cm. Fls. Fls. very viscid.
 78. *Rut. aff. Boronia* A. locally sandy ridges 20-40cm. Fls. yr.-wh. Fl: orange.
 84. *Stroemia* ? P. 1-2m. Fls. violet. Pods inflated.
 19539. *Euph.* P. 1.5-2.5m. Fls. ? Fl: green (also *Gaudich. R. etc.*)
 50. *Santal.* O. to 2m. Fls. orange-yellow (all way to 7.5).
 52. *Mysit.* P. locally sandy fls & ridges. 30-50cm. Fls. wh., perianth.
 62. *Rut.* P. 30-60cm. Fls. wh. Fls. aromatic leaves (also *Gaudich. etc.*)
 64. *Sodonaea* C. 1.5-2.5m. Fls. ? Fl: wings purplish.

Herbs

19548. *Sytilidium* Local on open sandy ground. 3-6cm. Fls. some frs.
 57. *Euph.* C. woody herb 50-80cm. greyish leaves. Enlarged fl: cavity (Parker's bk) ^{at 40.}
 65. *Acantha* Scattered in scrub; often on old eroded *Urosia* hills. 20-40cm. Fls. pale ^{purple}
 71. *Halimolobos* C. locally. 40cm. Ascending; bushy.
 19631. *Bladinum* Principal ground cover (also of SF). Many clumps of numerous
 stems 50-70cm.

Grasses

19549. *Tryp.* on burned over sandy ground. Flattish leaf 15-20cm.



Brown's Sh.

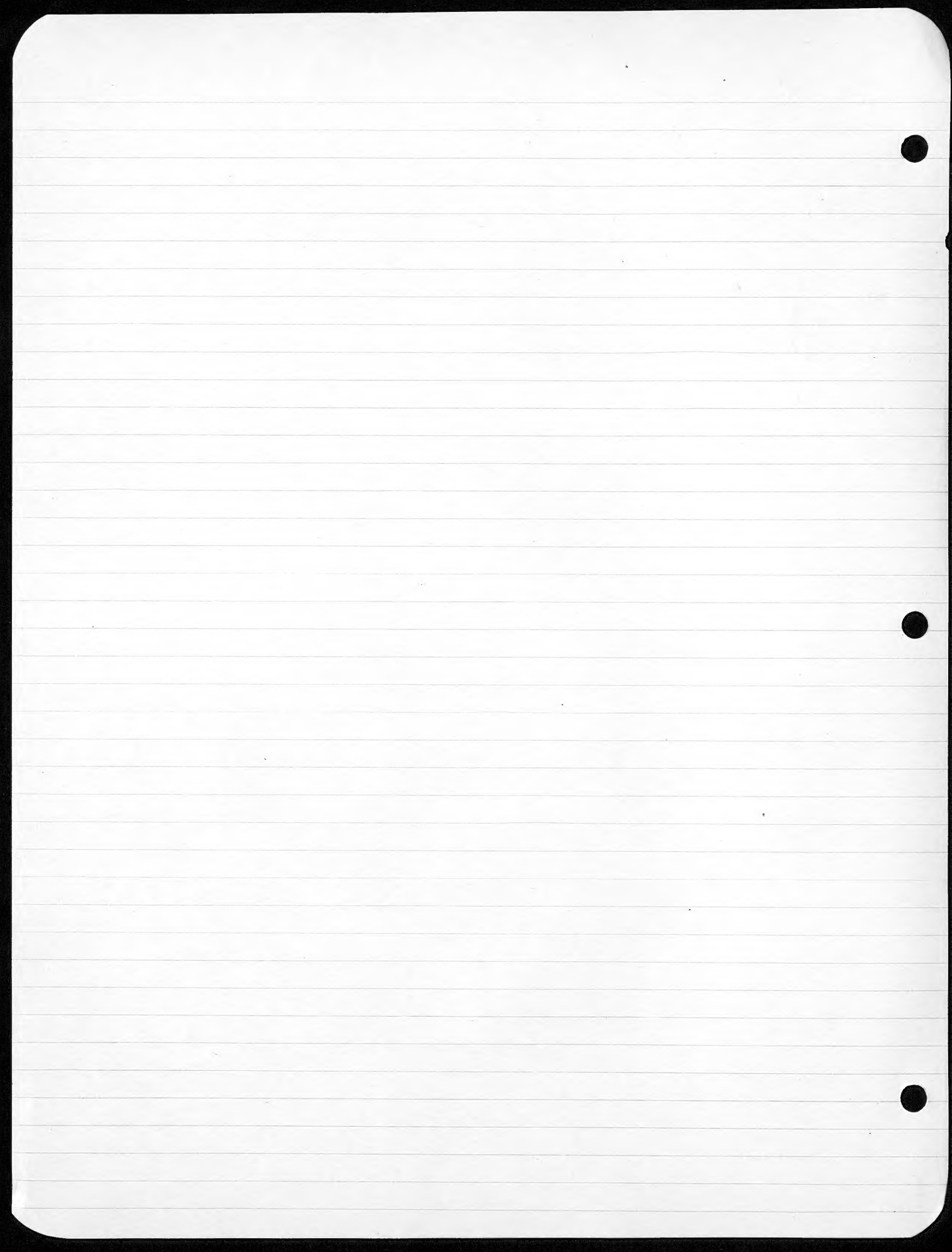
Turkey bush

Shrubs cont.

19568. *Phyllanthus*? S. 50-70 cm. Fl. pale green.
69. *Cyperid.* F. Compact, bushy 30-50 cm Fl. wh. Leaves ± glaucous.
72. *Distichlis* O. 40-70 cm. Fl. green. St. green, inflated.
88. *Fungia* A. on stony ridges. 1.5-2 m. Fl. pink. Lvs night-
branching habit; leaves grey below
97. *Hibbertia* O. 1.5 m. Fl. pale yellow.
19601. *Asplenium* P. bushy or subscandent.
49. *Lepidosperma fabricii* A. locally. Tree or shrub 2-4 m. Fl. yellow. Bark
grey; fibrous & fissured.

Parasites

19570. *Loranthus* On *Acacia* sp. 20 cm. Fl. red; bracts green.



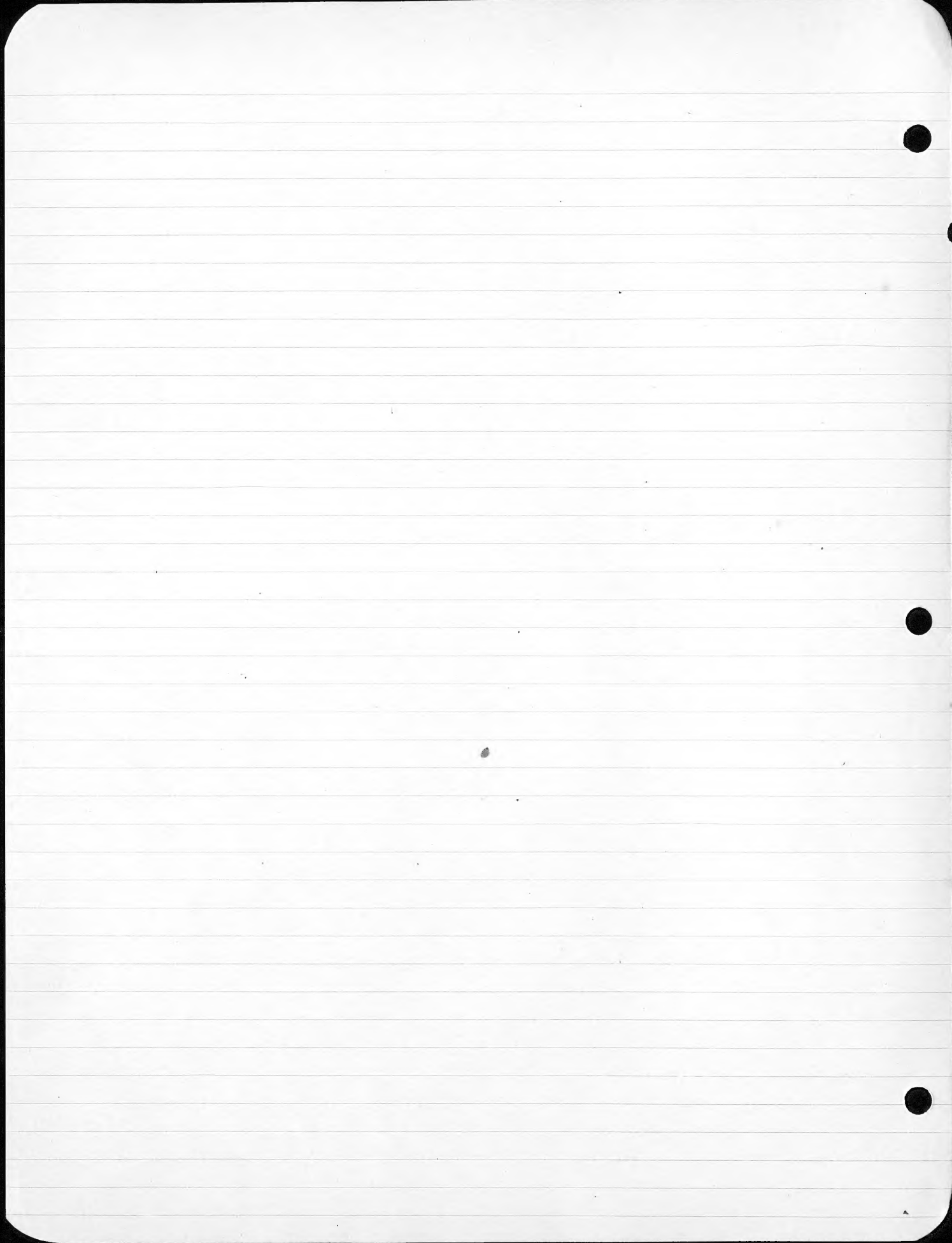
Brown BK.

Dry rocky granite ridges
dry conglomerate ridges

Leptospermum (?) scrub.

Trees

19178. *Leptospermum* sp. 5-7 m. Fl. wh. More or less flat-topped & horizontally branched tree. Bark thin, smooth, purplish red.
19553. *Leptom.* Several plants. Shrub 60-100 cm Fl. yellow. Leaves spine tipped.
19554. *Phakelium* In scrub on dry conglomerate ridges. 4-6 m. Fl. ? Shrub-topped small tree with whitish papery bark.
95. *Fern.* *Xiris* sp. F. on nearly bare stony soil. 20-40 cm.
96. " " *C. locally* " " " " 10-20 cm.



Brown Is

Sedge & Pitsch-plant bog

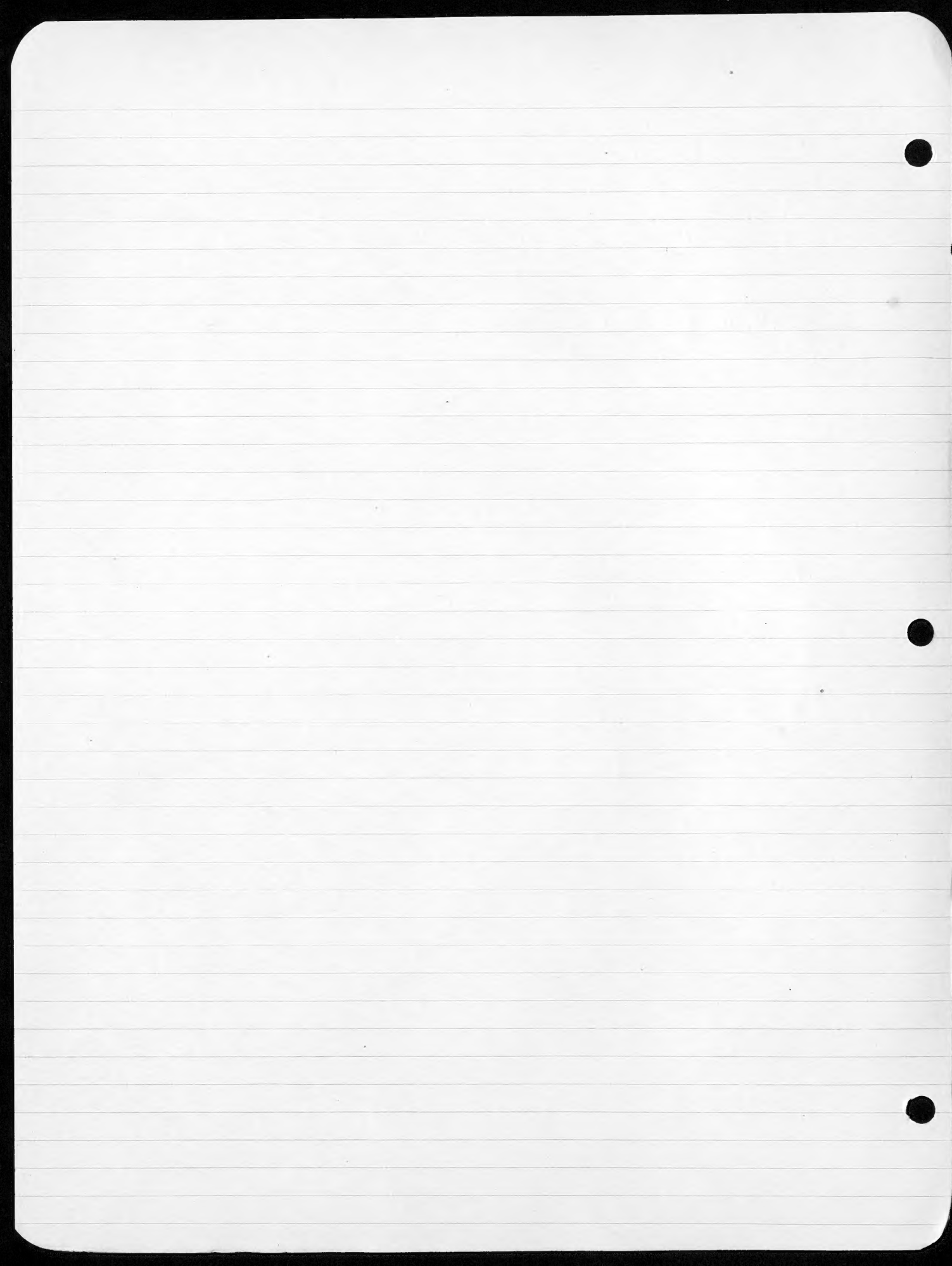
Woody plants

19601. *Asplenium* *A. subcaudat*, up to 1.5 m. Fls. with strong musky smell. - 2 m. reddish-br.
14. *Metelaceae* *Leuc. var.* V.A. Shrub tree a shrub 1-2 m. Sapry w.b. bark. (= *Samanea* & *Newcastle Bay form?*)

Again lyciophala.

Herbaceous plants

19561. *Coch.* Scattered amongst sedges. *Stiff, erect* 30-50 cm. Fls. br.-green with white ^{tip}
19600. *Gyp.* V.A. 80-120 cm. *First leaves rigid & sharp pointed (Stadium?)*
09. *Utricularia* P. 15-40 cm. Fls. yellow, showy
10. " 25 cm. Fls. golden-yellow, reddish below = 19609?
11. " C. on open ground. 12-20 cm. Fls. deep yellow; large shield-like purple-br. caryop lobes.
12. *Bromus* C. 10-30 cm. Showy pink fls. Leaves green.
13. " C. 10-15 cm. Fls. reddish pink. Leaves red.
15. *Phymatopteris* O. on sedges. 50-70 cm.
16. *Tycopodium cernuum* *Ery.* a sedges. 50-50 cm.
18. *Utricularia* O. 5-10 cm. Fls. purple with yellow spots.
19. " F. 10-40 cm. Fls. rich dark purple.
20. *Halimolobos* F. 50 cm ascending, reddish branches. Fls. red. Distinct from other local sp. - longer leaves.
21. *Triscantia* Scattered in bog. 30-50 cm. Heads whitish
22. *Lycop.* " " 25-40 cm. Very small yellow fls.
23. *Utricularia* 10 cm. Fls. yellow.
24. *Scirpus?* O. 50-70 cm.
25. *Strophoglossis* One example edge of bog. 80 cm. Showy rose purple fls.
26. *Gubner* *Ery.* in dense patches 2-3 m. high. Leaves indurated. Fls. red.
27. *Triscantia* Edges of bog. 10-15 cm. Heads pale brown
416. *Coch.* P. 10 cm. Heads only (inf. purple-br).

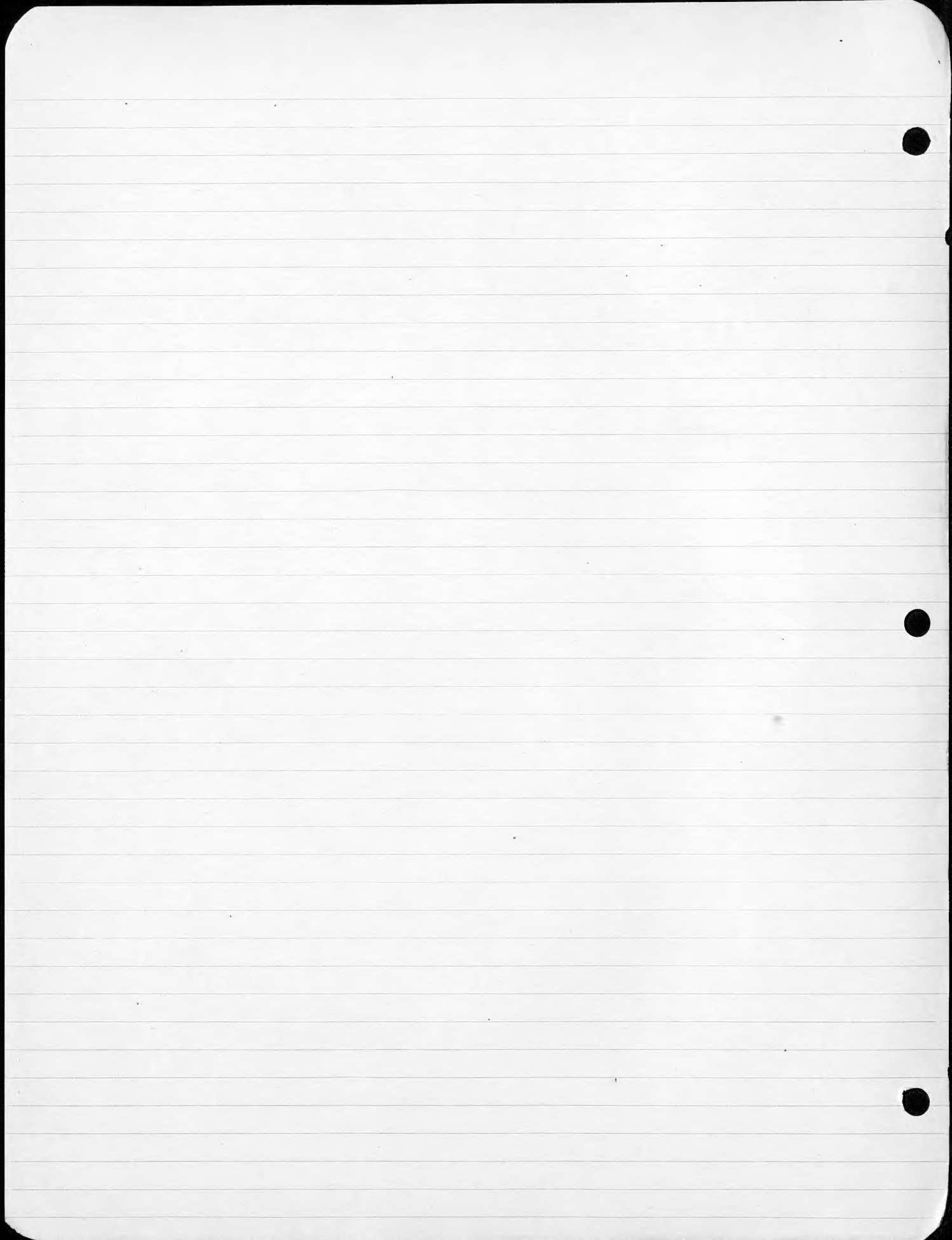


Provincis Ok.

Low gravelly banks & islands.

Shrubby growths on low floodbanks of creek

19183. *Myrica*. F. shrub 1 m. Fl. cream. Fl: ?
86. *Borreria phyllactada*. F in shrubbery. Shrub \pm 1 m. Fl. yellow. Stamens.
19528. *Smilax chrysodermis*. F. slender tree 46 m. Fl. golden yellow. Leaves glossy below
29. *Euph.* Scattered creeping tufts 30-50 cm. Fl. white.
76. *Phyllanthus*. Herb 40-60 cm. Fl. reddish.
78. ? O. 1.5-2.5 m. Fl. red. Fl: 1-4 lobed. (See also *R. fl.*)
19603. *Euph.* A. small leaved flood-resistant sp. 1 m. (shrub) (Mossman
Sage & H. Gummer also).



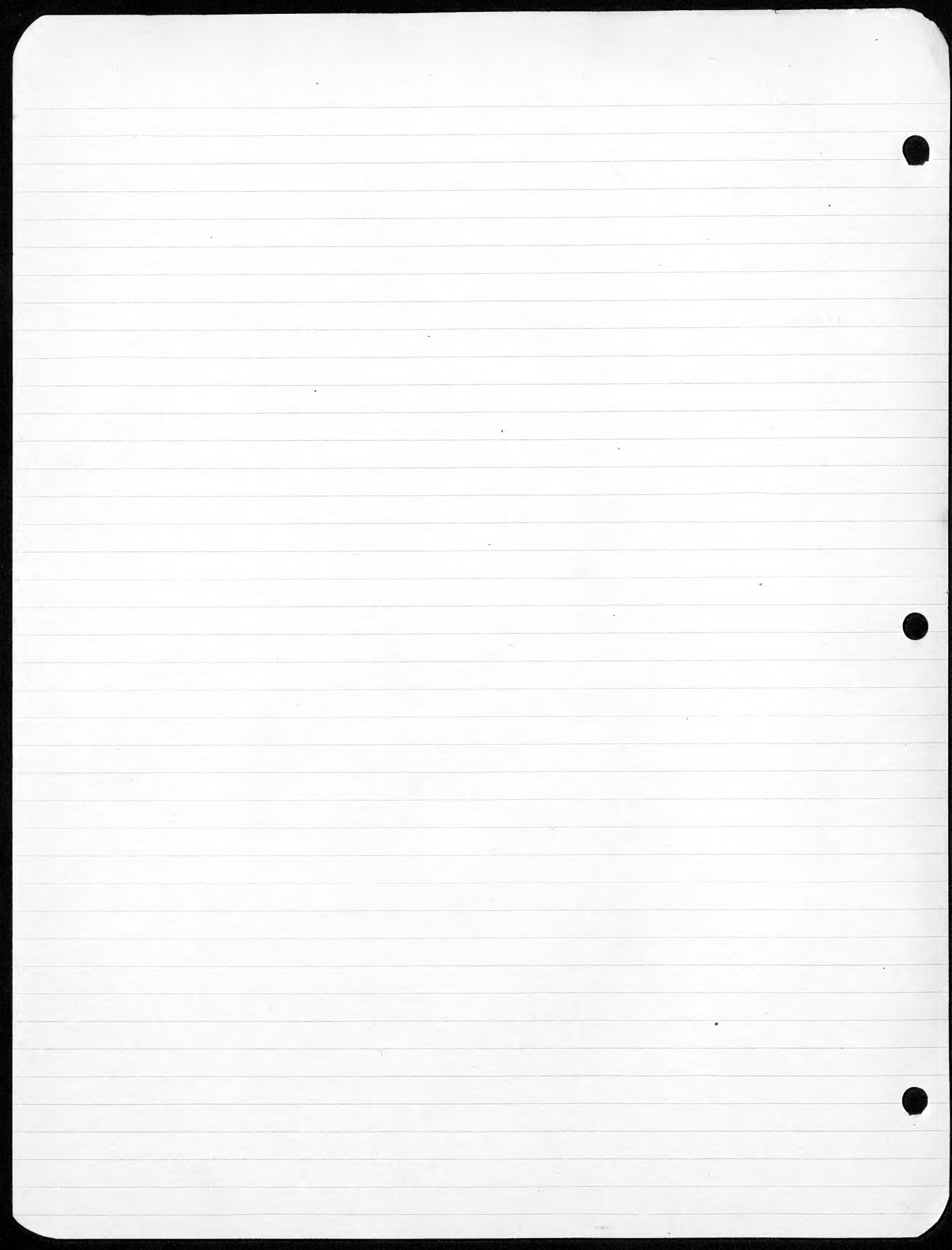
Wentlock, Palavia River

alt: 150m.

- Savanna forest

River channel

Lagoons across river.



* Young shoots flowering after a grass fire which destroyed all aerial parts of the plant.

Woodwood/messmate of dry conglomerate hills.

Sandy flats - Woodwood

Messmate/Woodwood sandridges.

Winnick.

Savanna forest

Trees

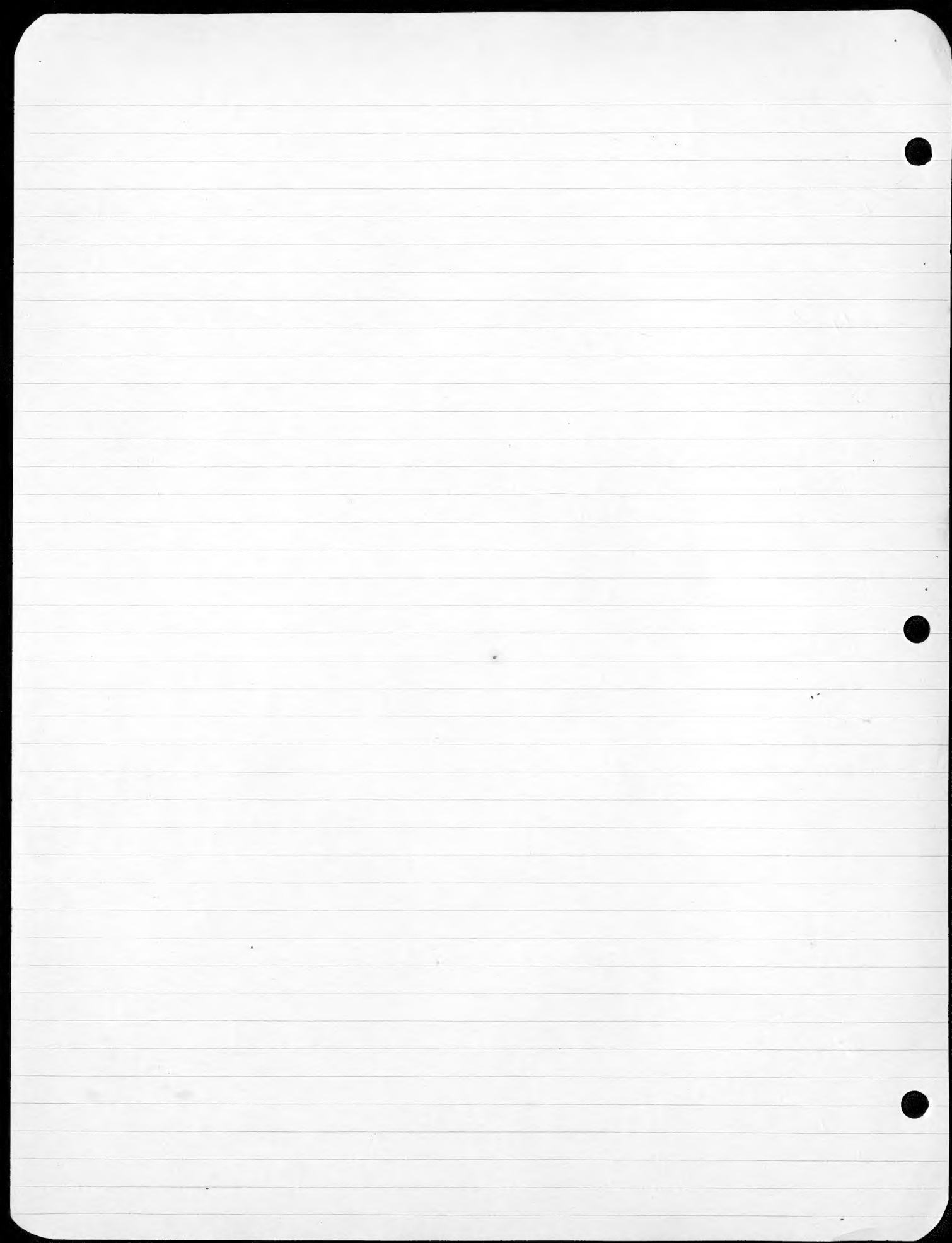
19666. *Tristania* Scattered in Woodwood/messmate SF of dry conglomerate hills 6-7 m. Fls.? Bark grey, fibrous (Yellow-fl. *Tockenii* fl.)
 68. *Mycia*? C. on banks of gullies on rocky dry conglomerate hills. 4-6 m. Compact tree. Fls.? Fl. green
 69. *Dodonaea* C. in dry open SF on crest of conglomerate ridges. 5-6 m. Fls.? Fl. wings purplish. (Sp. of *Tockenii* fl.)
 70. *Ficus*? S. in SF of both sandy flats & stony ridges. 8-10 m.; branches pendent. Fls.? Fl. yellow, delicate.
 71. *Bumelia*? S. 6-8 m. Fls.? Leaves grey-green. pub. toment.
 73. *Mitralena* var. C. in sandy gullies. 18 m x 20 cm. Fls. pale green. Leaves grey green.
 74. *Eucalyptus* "Woodwood." This is messmate major tree of dry conglomerate ridges. 10-15 m. Fls. near (small fl. sp. of *P. Boultonii* & *P. Brownii* fl.).
 19703. *Acacia* A. in Woodwood SF of sandy river flats. 8-10 m. Profusion of golden-yellow fragrant fls. Phyllodes 3-nerved, narrow & glaucous.
 16. *Mitralena* C. on eroded banks of dry gullies. Scale-bark fl. 4-7 m x 20 cm. Fls. wh. Papery grey bark.

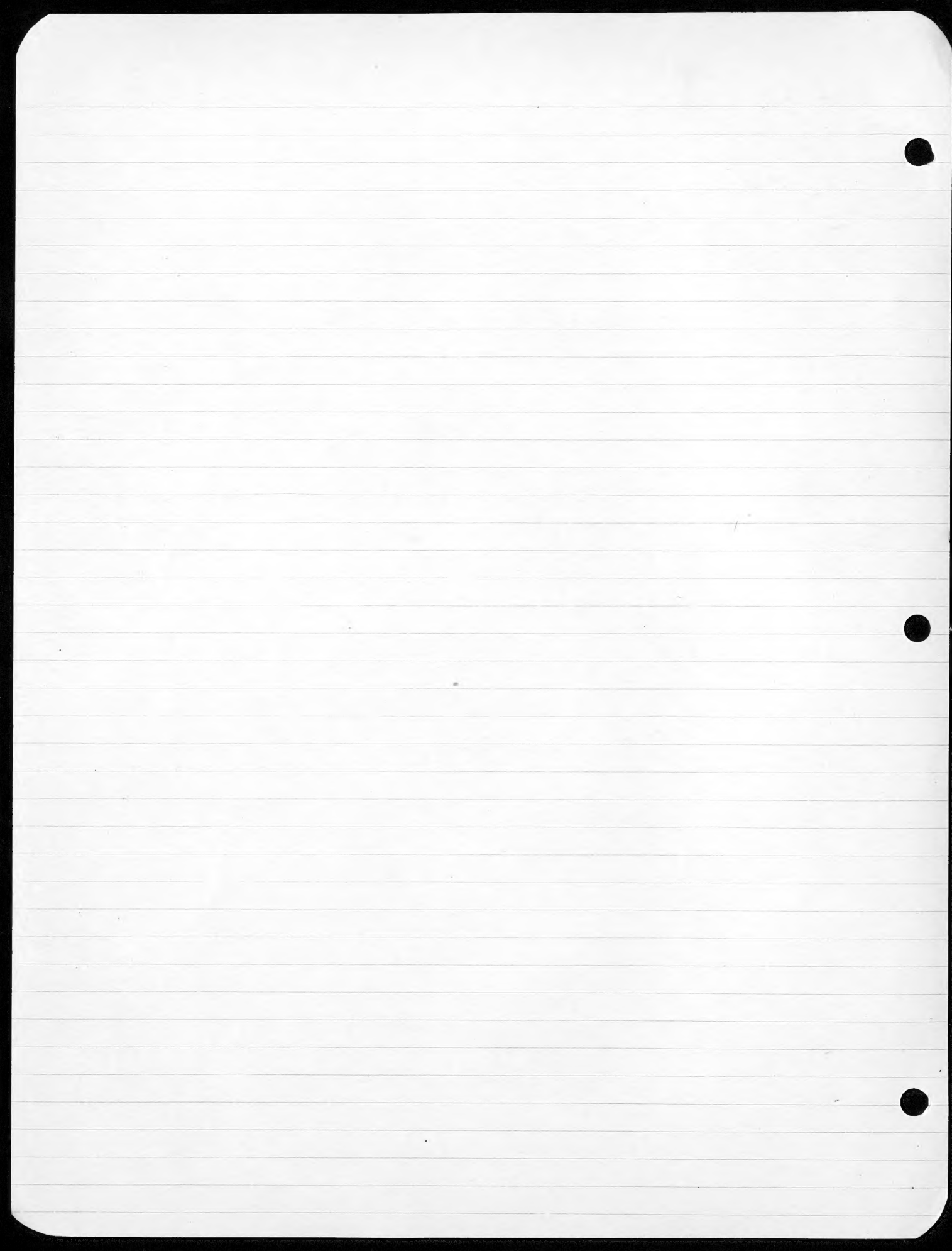
Shrubs

19667. *Epicand* C. on ridges of dry gullies. 1.5-2.5 m. Fls. wh. (*6*)-based sp. of *Tockenii* & *P. Boultonii*
 75. *Alphac* F. on rocky ground of conglomerate ridges. Subscandent 1-3 m. Fls. sometimes moniliform. Fls.?
 * 95. *Tephrosia* River flats. Fls. purple.
 * 96. *Lejum* River plain. Fls. purple at tip. Leafless young fl. shoots from horizontal w. g. stem

Herbs

- * 19689. *Chamaecyp* P. locally on river flats. 10-15 cm. Bracts wh. Fls. pinkish. Flowering shoots after burning of the grass.
 19706. *Euph* Amongst grass in a sandy gully. 6-15 m; bracts pale pink.
 07. *Ambr* One example " " " " 18 m. Fls. pinkish-wh.
 14. *Comp* F. dry sandy banks of gullies. 15-20 m.
 15. *Pony* Amongst grass " " " " 30-40 m. Fls. yellow with wh. lobes
 * 20. *Comp* Messmate/Woodwood sandridges. 20 cm. Rays wh., disk yellow. Deep, enlarged leaf-rod.
 * 21. *Lejum* " " " " 20 cm. Fls. purple. Deep, enlarged leaf-rod





Present thru trees etc. seen in R-9.
at Iron Range & Tiger Range.

Winlock

River channel

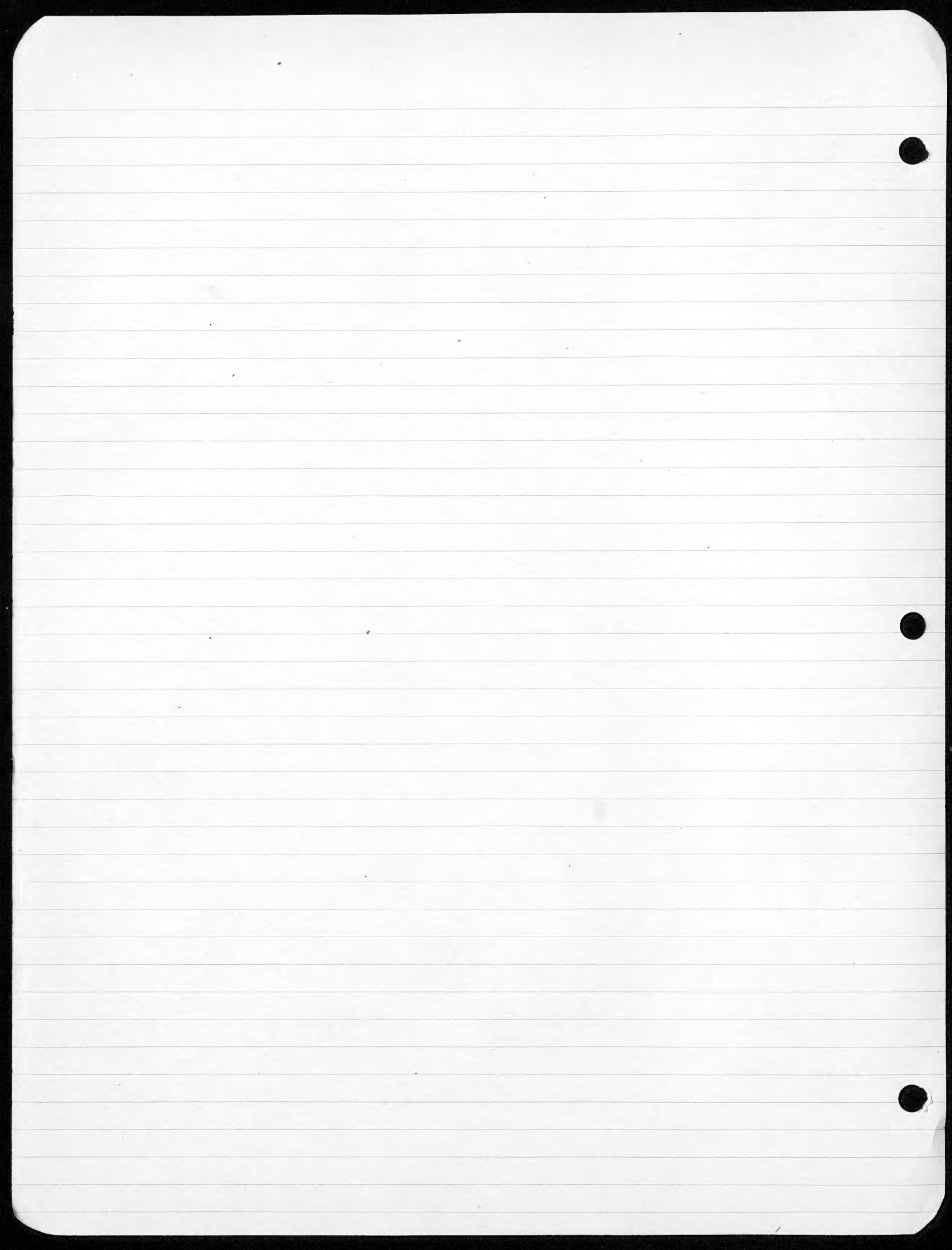
Trees

19687. *Ballisoma* V/A in sandy flood channel. 5-8m. Fl. big, 6" red. Stem
erect, branches drooping.
- Pl. *Tanaisia* F. in gallery woods. To 12m. Fl. yr-white.
- Pl. *Hussack* " " " 10-12m x 15-20cm. Fl. cream. Ft. ? (also *Bacora*
~~19717~~ ? River, & Iron Range). Leaves mango-like.
19717. ? Gallery R. F. tree to 25m x 40-50cm. Fl. cream. Ft. delicate
= (occur scattered wood tree of Iron Range).
19. *Morinda* Gallery R. F. 6m. Fl. cream. Ft. upright

Shrubs

Herbs & grasses

- ~~19738~~ *Cyperus* O. in open sandy channels. 70-100cm. Grayish (cf. *C. Mackii*).
19688. *Acanth.* Erg. in small groups on shady banks. 30-50cm. Branching. Fl. dark purple.
19704. " O. on wet sandy banks. 40-60cm. ± fleshy. Fl. purple
05. *Phyllanthus* to shade on moist grassy banks. Herb (?) 50cm
18. *Phragmites* Matted on sandy islands. 73m. Slender culms.



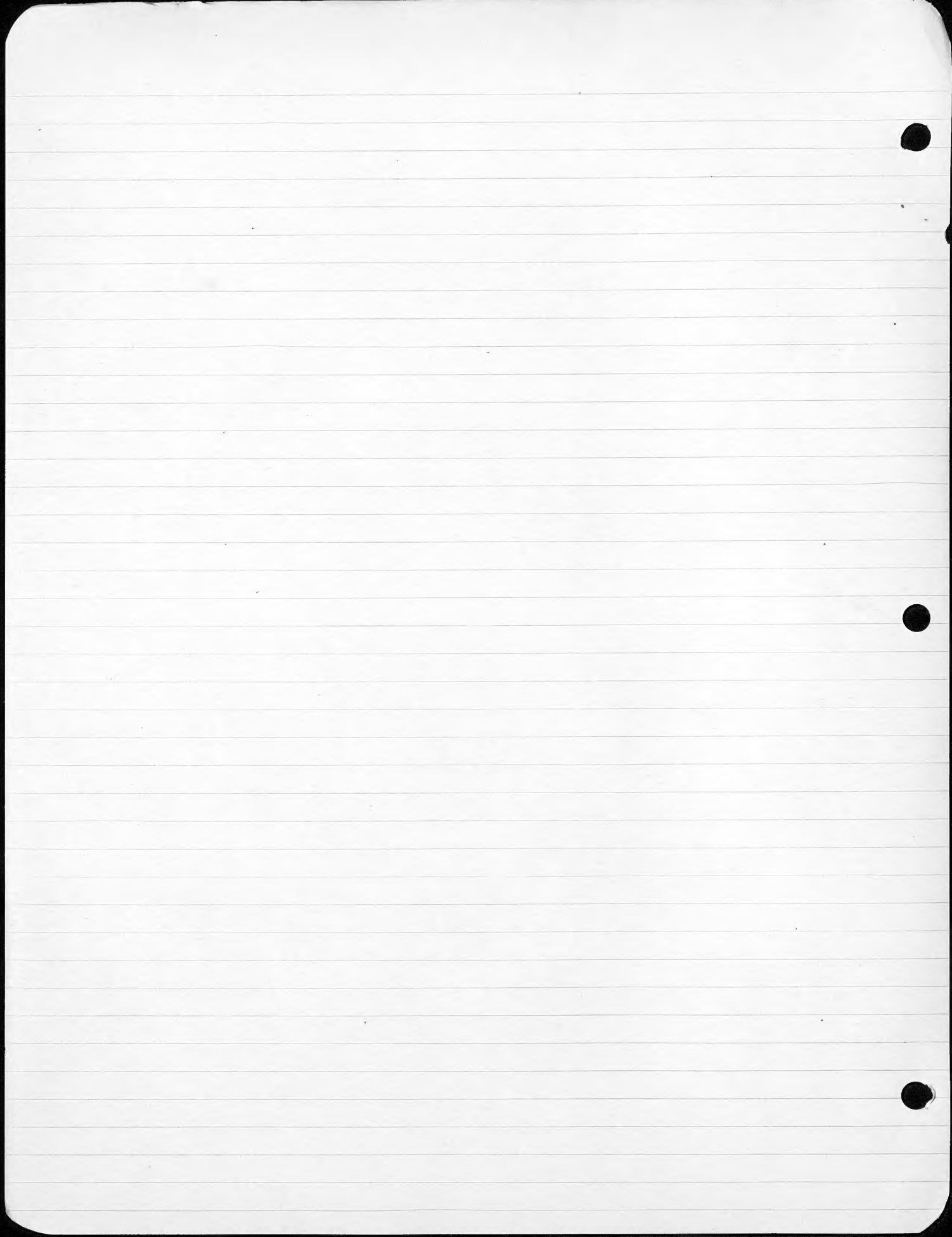
Windsor

River channel

Blind ones

19683. *Lucicutia*

In gallery woods, 5-6 m. Fl. yellow. Fl. yr. - yellow 10-12 m. ^{X4.4.3}



Wentlock

Lagoon across river

Trees

19689. *Myrsine*:

DB. char. small tree (also in banks) 5-7m. Fl. wh. smooth grey bark
& drooping branches (Tandanya, Passo, etc.)

Agave-like herbs

19677. *Nigella*

O. in shallows. 50-60 cm. Fl. green

68. *Utricularia*

Free-floating sp. P. in lagoon. Fl. pale yellow. Pedicels violet.

97. *Limnanthemum*

A. fringed wh. corolla with orange tube.

98. *Wynoptera*

A. Fl. wh. 10-12 cm. dia. delicately perfumed

19702. *Limnanthemum*

A. Fl. orange

Herbs, etc. of moist ground

19680. *Sesuv.*

Moist grassy banks. 20-25 cm. Fl. purple.

81. *Sida*

P. on moist edges. Stems tufts 50-80 cm. Fl. white

82. *Cy.*

Tufts " " 20 cm.

83. *Cyperus*

P. moist grassy banks. 40-60 cm.

84. *Sesuv.*

P. " " " Ascending. Fl. green with purple lobes.

85. *Filipendula*

A. under grasses " " ± 2 cm.

86. *Wahlenbergia*

C. locally on grassy edges. 40 cm. Fl. violet.

74. *Cyperus*

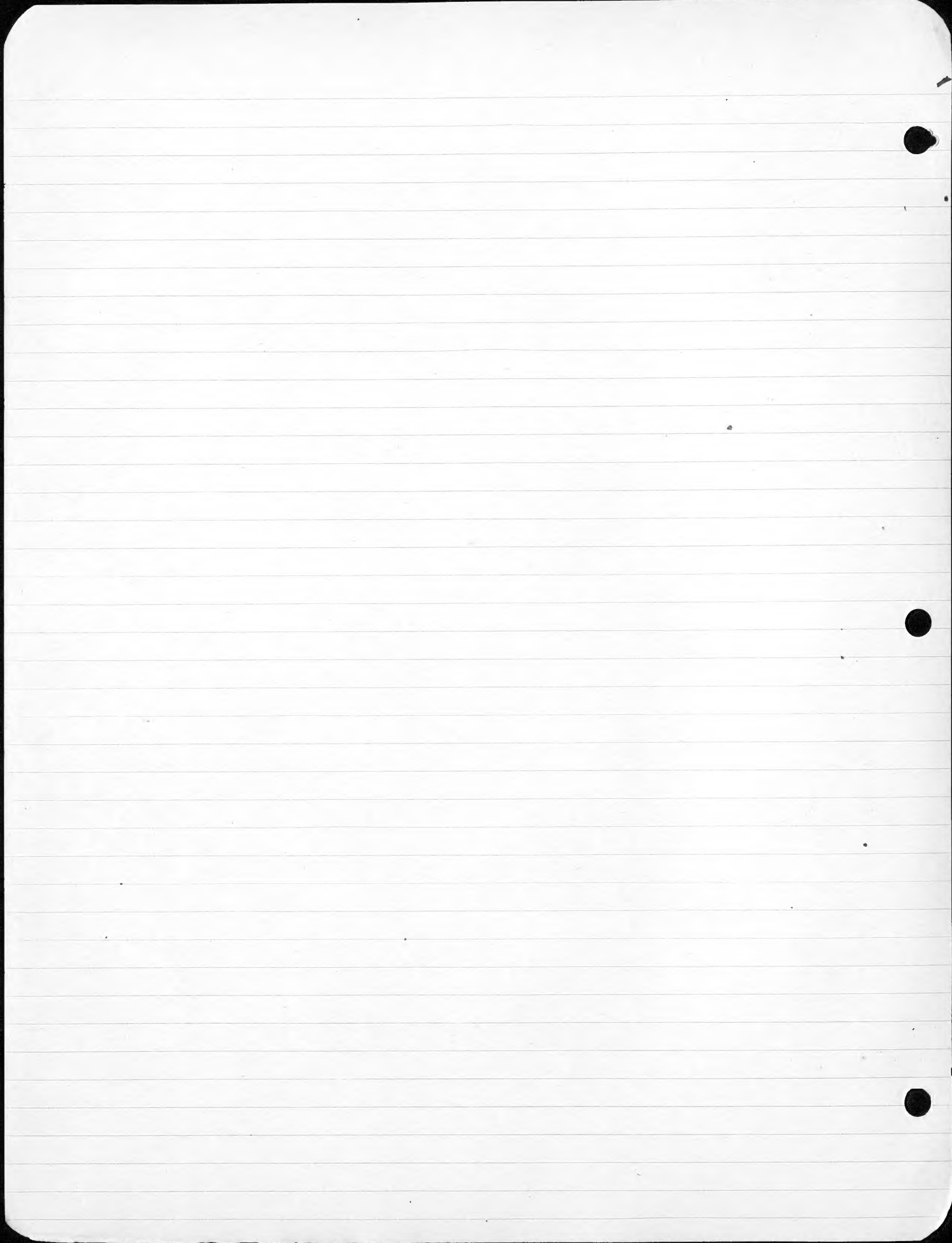
Few plants on moist banks. ± 1 m., small few stems.

19700. *Burchardia*

C. grassy edges. 40-70 cm. Fl. white.

01. *Hydrocotyle*

C. " " 15-50 cm. Fl. purple above, yell-gr. below

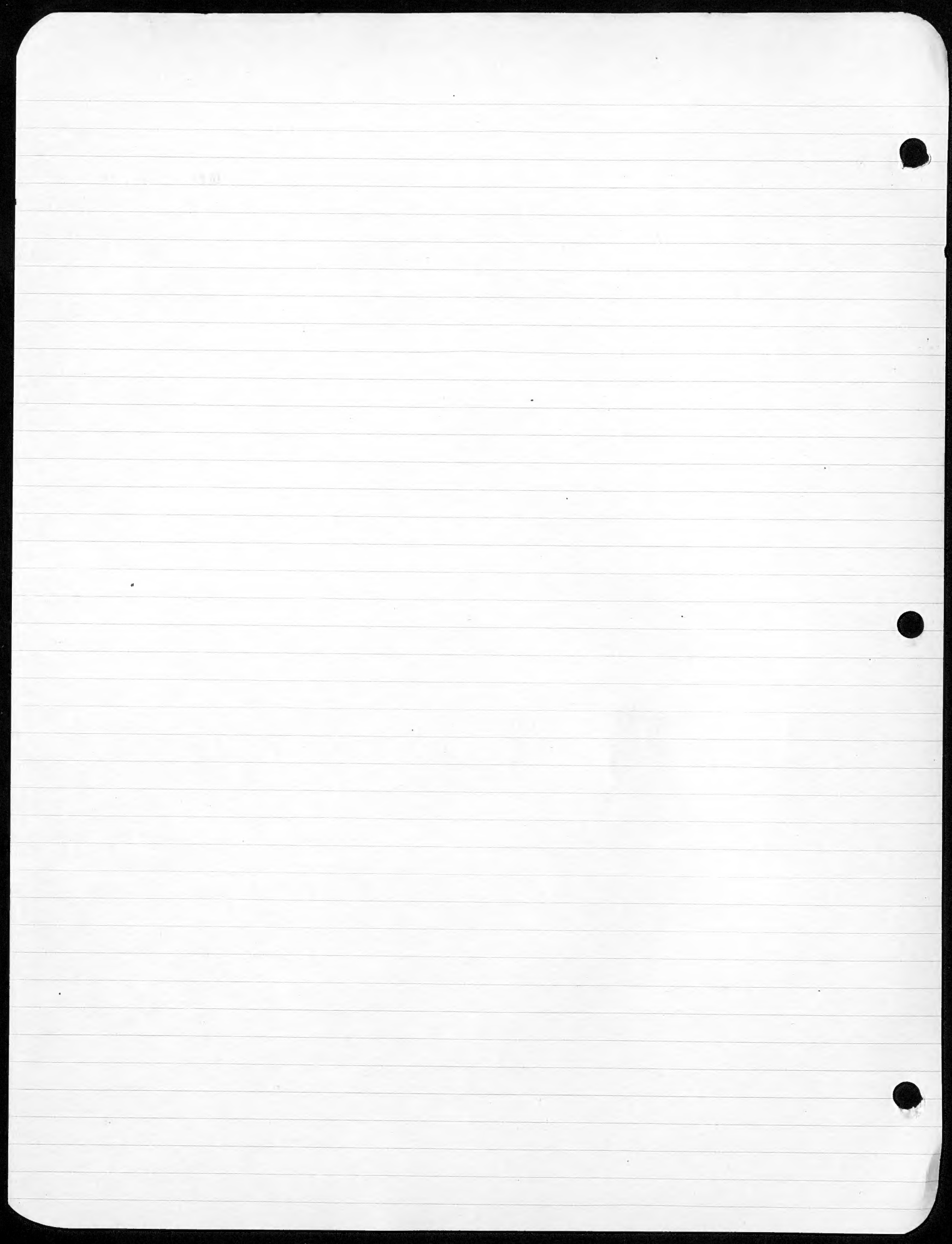


alt. 125 m.

Archa River, Newick - Boen Road

River channel

Savanna forest



Islands of sand & silt
Thin rain forest on islands & flood banks.

Arche River

River channel

Trees

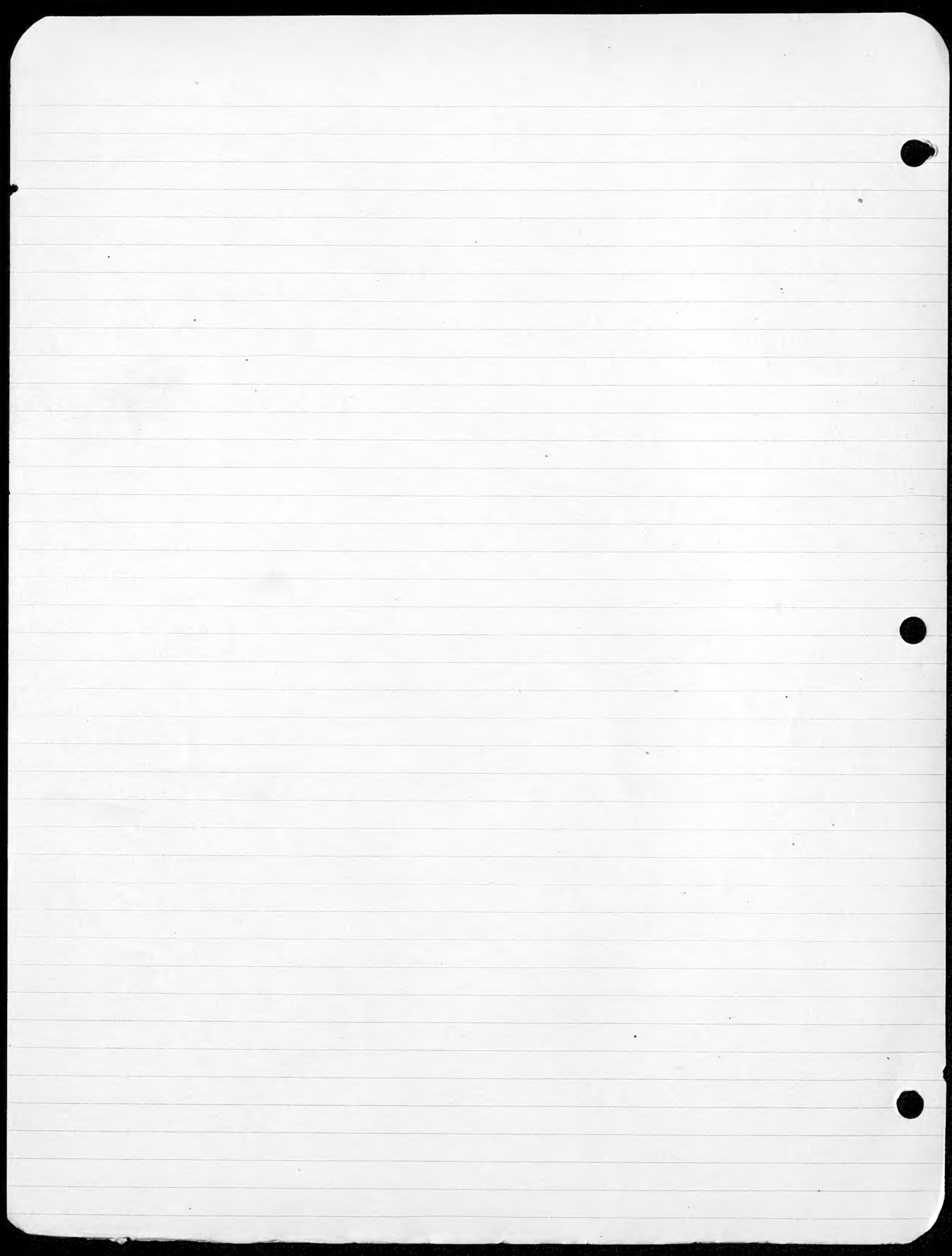
- 19727. *Diospyros* C. on islands of sand & silt: tree a shrub 3-6m. Fl. [?] fl. unisexual.
- 29. *Crataeva* On an " " - tree a shrub 3m. Petals wh. to yellow or salmon-pink; filaments & gynophore red. Fl. ?
- 30. *Neyf.* P. on islands of sand & silt: (line of water's edge). 6-8m - fl. wh.
 Myrsine longifolia? Smooth grey bark, branches not-fused (Landinga, Pannigala)
- 31. *Barringtonia* C. in thin R.F. 6-10m. Leaves mango-like fl. wh. fl. ?
 (also Parore & Palovina River.)
- 47. *Tectocarpus* P. on dry open banks subject to flooding. Deciduous (then leafless) tree 4-6m. fl. yellow, filaments red. Infloresc. p. fl. Full bloom
- 48. *Albizia* C. in sandy & rocky bed. 10m to 30m fl. ? Hard, perianth ^{6-8cm}
- 49. *Myrsine* Islands of sand & silt: tree a shrub 4m. fl. ? fl. unisexual
- 53. *Mitrasacme* ^{solign.} ~~leuc.~~ ^{var.} C. on sandy flood bed. "Grows to a large size - up to 25m in height & 50-60 cm. dia. - but as a rule the trees are bent low or lying prone by the force of flood waters. fl. yr-wh. Leaves grey-green. Bark grey, fibrous, papery.
- 54. *Barringtonia* C. at low water of low-branches. 6-8m. fl. red. Semi-deciduous & breaking into young leaf.

Shrubs

- 19733. *Albizia* of *holosericea*. O. in sandy bed. 3-4m. fl. yellow. Lvs grey pub. fl. yellow.
- 66. *Plumbago zeylanica*. 1/2 shade in thin R.F. Prostrate a subprostrate, over 1m. fl. wh.

Herbaceous plants

- 19732. *Kyllinga?* C. moist beds of sand & silt. 8-20cm. Terrestrial, fleshy.
- 34. *Fimbristylis* P. " " " 10-20cm. ± fleshy, grassy.
- 35. ? O. " " " 5-15cm. fl. wh. Plant reddish
- 36. *Sybidium* P. " " " 15-18cm fl. pale purple above, yr-yell. below.
- 37. *Eragrostis* Unk. " " " 60cm.
- 38. *Trass.* / *cyperoid* on sand.
- 39. *Panicum* Moist sand. 30-50cm.
- 40. " Beds of moist sand & silt: Spreading 10-30cm.
- 41. " " " " 70-100cm.



Arche River.

River channel

Herbaceous plants, cont.

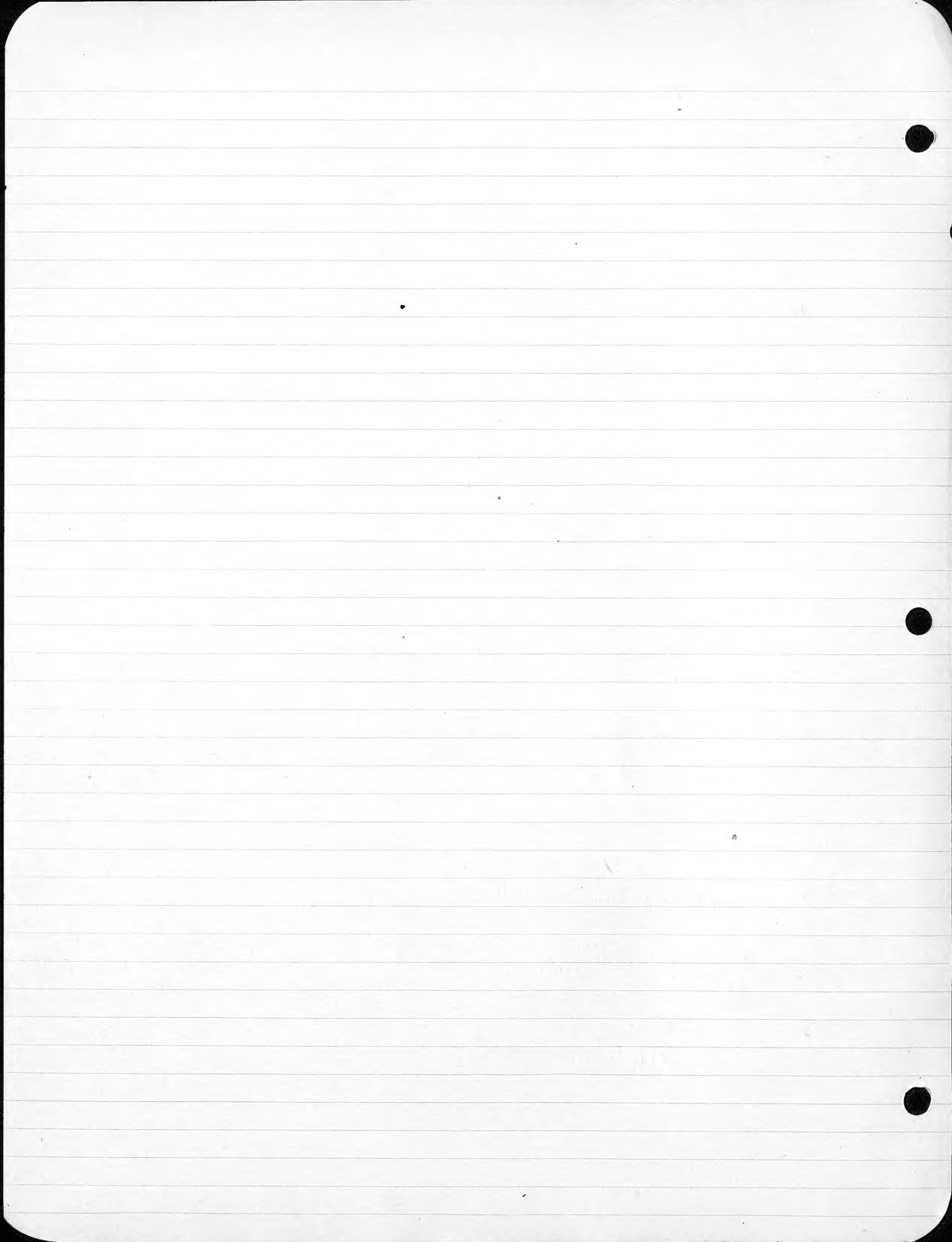
19742. *Cyperus* ^{leafy} A on moist sand & will: 12-30 cm.
 43. ? " " " " Prostrate, 15 cm.
 44. *Cyperus* Erg. in $\frac{1}{2}$ shade on silt bank. Herb & spindly 40-50 cm
 45. *Panicum* In " " " " Fl. wh. Prostrate \pm 70 cm. long.
 50. *Cyperus* O. in open sandy channel. 70-100 cm. Greenish
 51. " 1 plant in dry sandy bed. 80 cm.
 52. *Marrubium* Erg. on wet mud. Sterile

Climbers

19746. *Tournefortia cf. naja*. Scandent shrub to 20 m. Fl. yellow. Fl. reddish, more conspicuous than the flowers.
 57. *Passiflora* C. in thin P.F. 10-15 m. Strong fragrant wh. fl. Fls. 2-4 lobed

Trees, cont.

19755. *Desmodium* F. on alluvial banks of another river. Tree or shrub 3-5 m. Fl. ?
 59. *Microcrorum quinatum* " " 6 m. Fl. buds only. Fl. unisexual.
 61. *Mallotus* O in thin P.F. 5 m. Fl. Leaves convex
 64. *Passiflora* ^{apocynifolia} " " 8-10 m. Fls. greenish. Fl. ?
 65. *Passiflora* ^{caerulea} F. " " to 25 m x 40-50 cm. Fls. wh. (also *Passiflora* ?)
 Baccate. Said to bear an edible red fl.
 67. *Cyrtocarpus* C. in thin P.F. 6-8 m. Fl. cream. Fl. ?
^{impluvium}



Open SF of granite ridges.

Archer River

Savanna forest

Trees

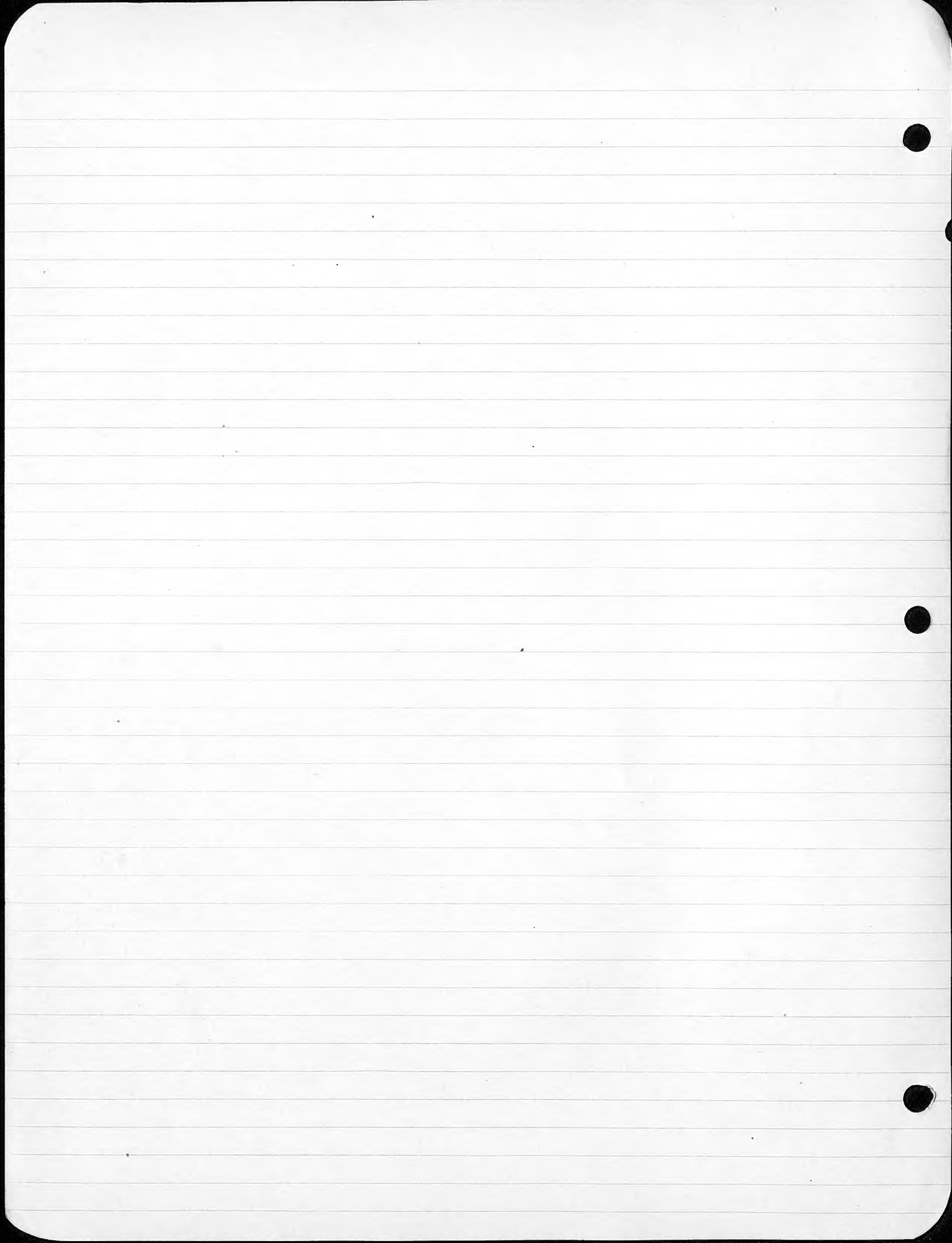
- 19760. *Erythrina* J. up to 20m x 25-30m. Fls. orange red. *Leidocarpus* & *Croton* ; upper stem & branches pruned.
- 69. *Eucalyptus* "Frank" P. in open SF of granite ridges. 10-12m x 15-25cm. Fls. ?
(C. on band ridges from La Passee south)
- 63. *Adenanthe* Sporadic. 8-10m x 20m. Fls. ?
- 72. *Eyocarpus* O. on granite ridges. 2-5m. Lowest pruned

Shrubs

Herbs

(also Mentzelia)

- 19756. *Muhlenbergia* A. amongst dry grass in sandy SF. 30-40cm. Strong violet fls.
- 58. *Lobelia* A. " " " " 30cm. Fls. purple; base of lower lip white
- 73. *Lob.* P. sandy granite ridges. Mostly herb to 1m. Fls. purple. Very fully fringed.
- 74. *Camp.* C. " " " " Perennial 60-80cm. Fls. yellow. Very succulent. (Mentzelia sp.). Deep leafy root.

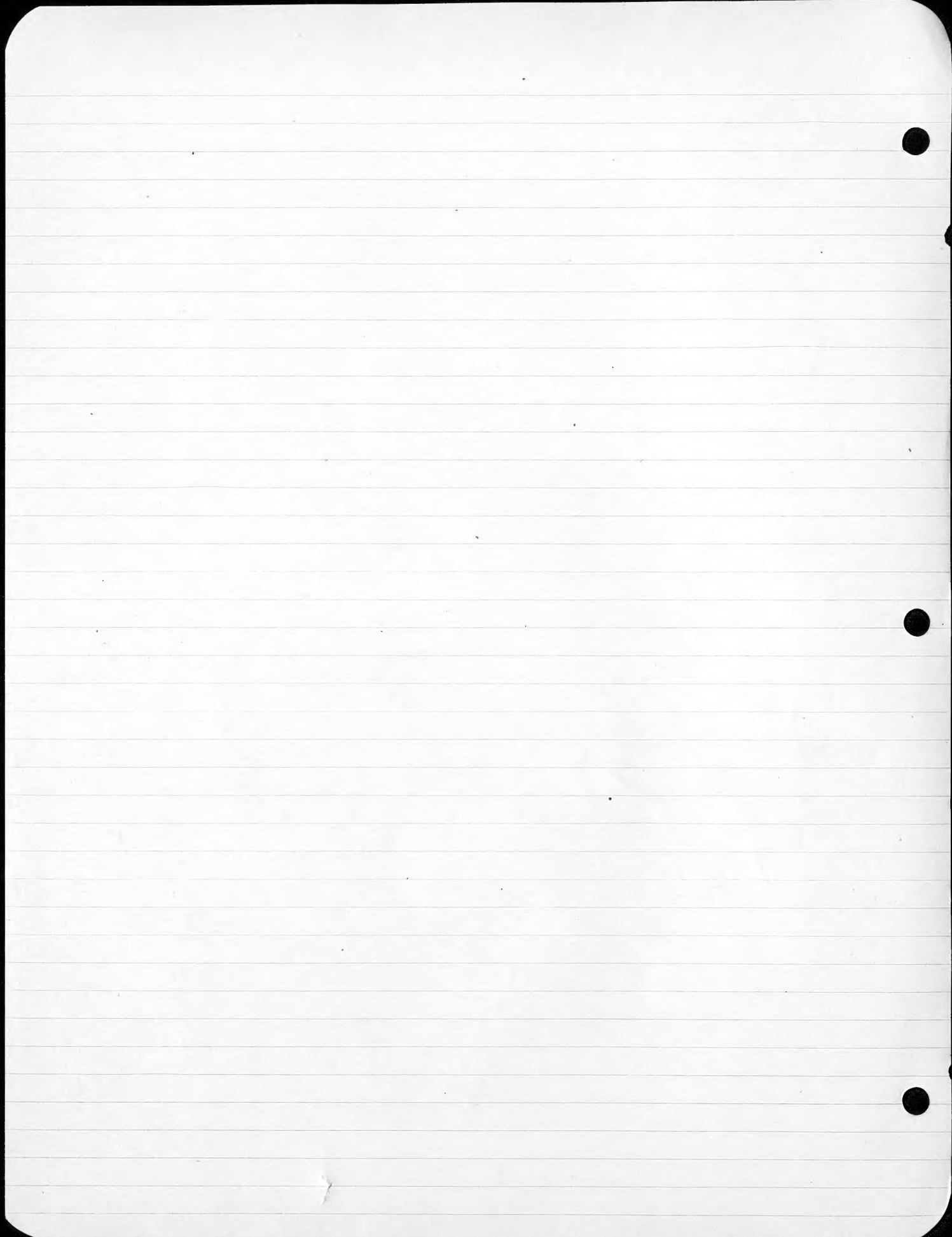


Green

911: 200 m.

Savanna forest

River channel



Dry, thinly timbered granite ridges.

Tree

Savanna forest

Trees

19820. *Brachylobos* ^{auriculata} Kerriang. S. 10-12m. Fl. yr-br. Deciduous or semi-deciduous; now with few leaves.

21. *Albizia procera*. Several trees in a dry gully. 6-8m. Fl. ? Greenish to flaky bark.

Shrubs

19774. Legum.

F. on dry thinly timbered granite ridges. 70-80m. The very purple fl. Young flowering stems appearing after fire.

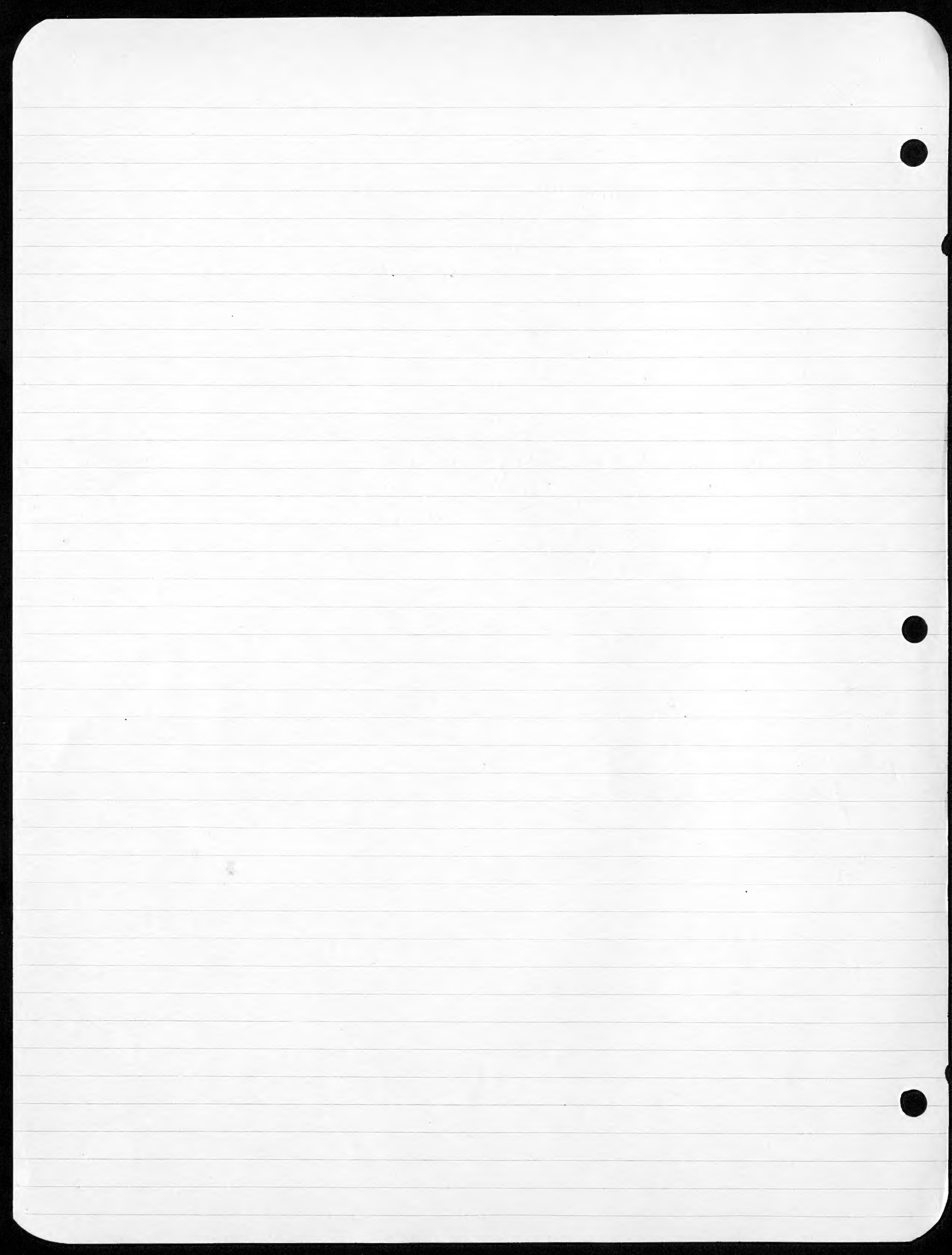
19822. Vitac.

S. on dry granite ridges. 40-50m. Fl. green. Fl. ? Some wood.

Herbs

19823. Euphorb.

Dry granite ridges. 30-40m. Fl. yellow



Tree

River channel

Trees

Salpigsea

19778. *Melastema leucostachyoides*. Fl. clear. Tree of rocky & sandy riverbed. 6-20 m x up to 6.50 m.

Fl. cream. Leaves grey green. Grey peeling bark.

19779. *Glaucocarpus arbutifolius*. Fl. in sandy & rocky banks. 6-8 m. Fl. cream. Fl. blue-grey.

Several slender stems from a common base.

80. *Morinda*. Fl. on thinly limbed floodbanks. Tree a shrub 3-4 m. Fl. cream.

85. *Callistemon ornamentalis*. Fl. in open sandy & rocky bed. Tree a shrub 3-6 m. Fl. bright red.

88. ~~*Buchanania arborescens*~~. Fl. on thinly limbed floodbanks. To 10 m x 30-35 cm. Fl. cream.

Fl. ? (mango-like sp. of *Ardisia*, etc.).

89. *Acacia*. Fl. sandy & rocky beds. Tree a shrub 3-4 m. Fl. yellow. Compact rounded habit; leaves silvery-grey.

96. *Tristania grandiflora*. Fl. on thinly limbed sandy low floodbanks. To 12 m x 30 cm.

Fl. white. Bark grey, shallowly fissured.

1980⁴. *Drypetes longifolia*. Fl. open sandy & rocky bed. 3-5 m. Fl. wh. Branchlets usually sub-pudent; bark smooth grey (N. to Sarawak). Fl. 1.

19809. *Tournefortia*. 1 example on thinly limbed sandy floodbank. 3 m. Fl. gr. with wh. lobes. Fl. wh. fl. g. Numerous erect stems, freely branched & forming a large clump.

Shrubs

* 19810. *Gladiolus*. Fl. on thinly limbed floodbanks. Tree a shrub 3-4 m. Fl. & fr.

17. *Abou*. Open rocky bed. 1.2 m. Fl. yellowish.

18. *Jasminum*. " " banks. 2 m. Fl. white.

19. *Euph.* (*Bythanthus*?). C. open rocky bed. 1 m. Fl. br. Fl. resistant sp.

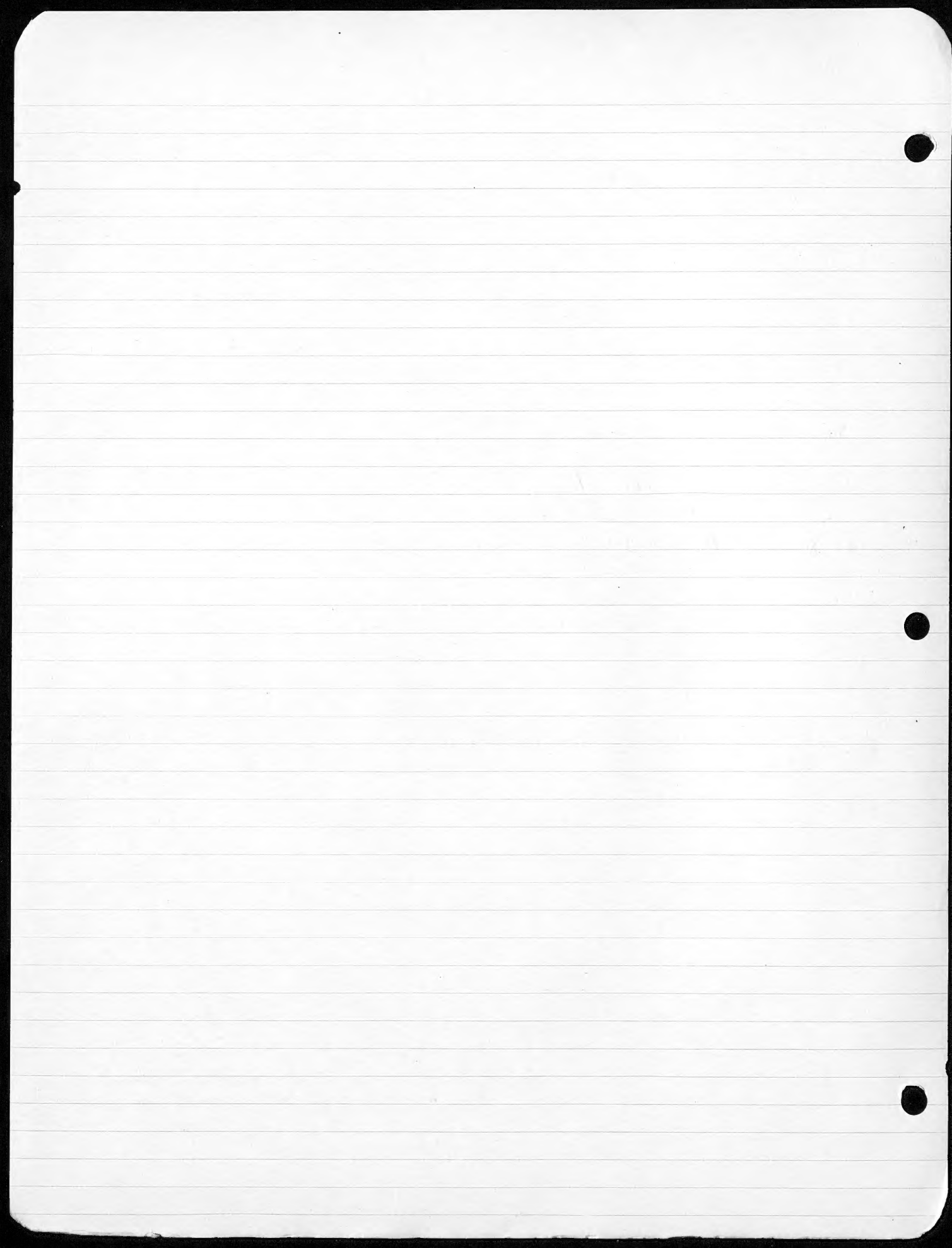
Trees, cont.

19811. *Euph.*. Open sandy floodbank. 5 m. Fl. gr. Fl. blackish purple.

12. *Macaranga*. Grey locality " " 4-5 m. Leaves very glaucous below.

14. *Euph.*. Fl. on thinly limbed floodbanks. 10 m. Fl. yellow. Much branched bushy.

15. *Terminalia*. Fl. sandy & rocky floodbanks. 4-6 m. Fl. ? Leaves very convex.

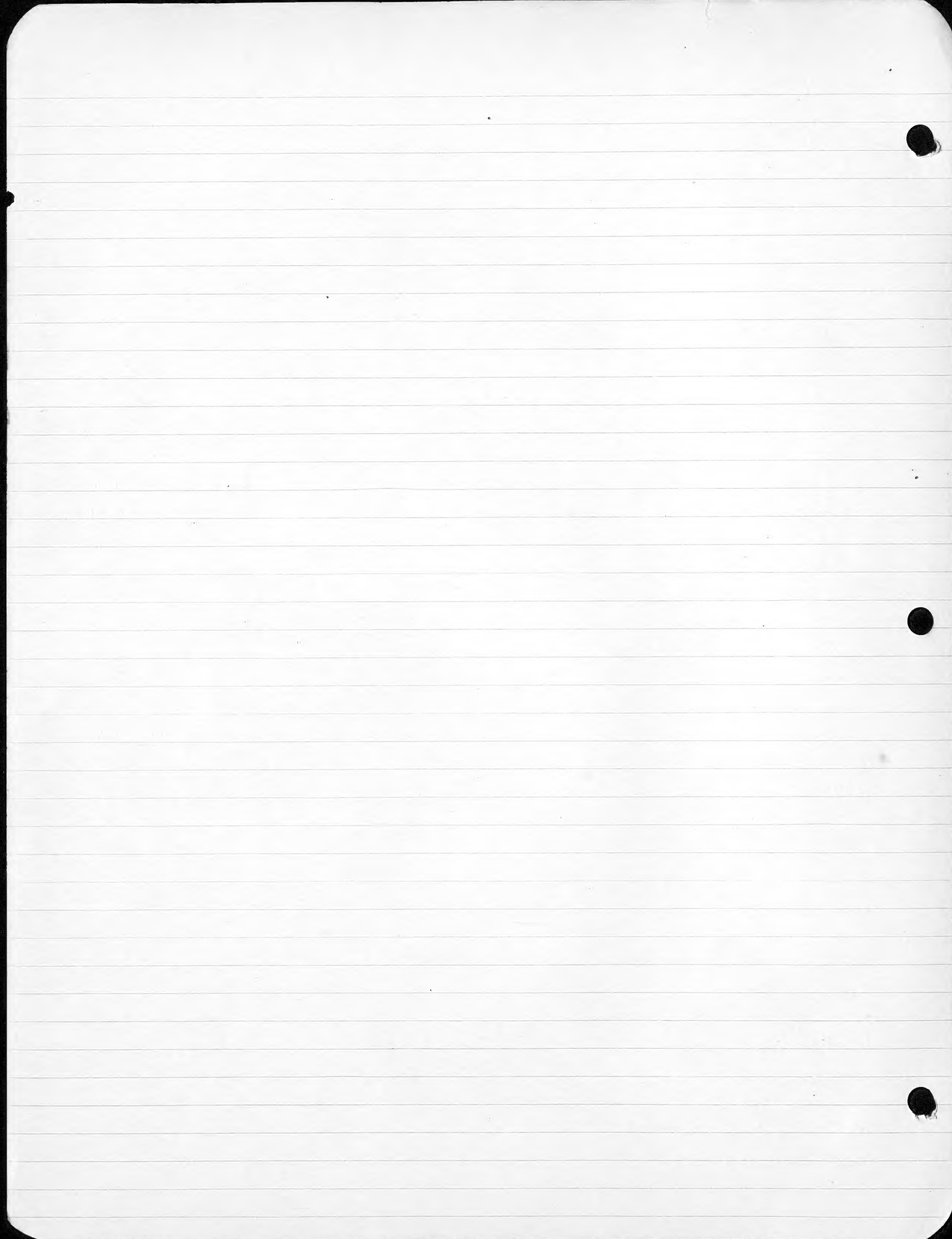


Boon

Run channel

Herbs

19775. *Oxylidrum sanguinatum*. C. moist open banks. 60-100 cm. Fls. yellow.
76. *Cyp.* J. in stagnant pools in open rocky bed. Fruit: nut-like, 50-100 mm.
77. *Cyperus*. J. open sandy bed. Stems \pm 1 m. Leaves gray-green
81. *Fenestrum* F. on moist open sandy bed. 30-50 cm.
82. *Alcauth.* O. wet sand in open run bed. Ascending 10-20 cm. Fls. lavender
83. *Lysodermis* Matted between rocks in open bed. Stems \pm 1 m. long.
84. *Cyperus* F. on wet sand in open bed. 40-70 cm.
86. *Sylichium* Grassy 6-15 cm. Fls. wh. Fleety
87. *Cyp.* Wet sand 20-25 cm.
90. *Jussiaea* C. " " " \pm 1 m. Fls. yellow.
91. *Polygonum orientale* ? Grassy 80-100 cm. Fls. white.
92. *Trifol.* Wet sand 3-5 cm. (creeping). Fls. pale purple.
93. *Alcauth.* " " " 30-40 cm. Fls. pale purple.
97. *Eragrostis* Scattered in dry sandy channel. 80-100 cm.
98. *Pimbristylis* Sparse in moist open sand. 12-20 cm.
99. *Cyperus* F. on wet 15-25 cm. (Arched R. etc)
19800. " C. " " " 10-15 cm. Fleety, gray-green
01. " Wet open sandy places. 30-50 cm.
02. *Cyp.* O. wet muddy edges. 60-80 cm.
03. *Alcauth.* Grassy open wet sand. 20-40 cm. Fls. purple. Fruit ascending.
05. *Bamb.* Wet sand. 25-30 cm. Fls. wh. Fleety, aromatic.
06. ? J. " " 10-20 cm. Fls. wh.
07. *Cyperus* J. " " Fleety creeping.
08. *Grass.* J. " " 20 cm. Fls. pink. Fruit ascending.



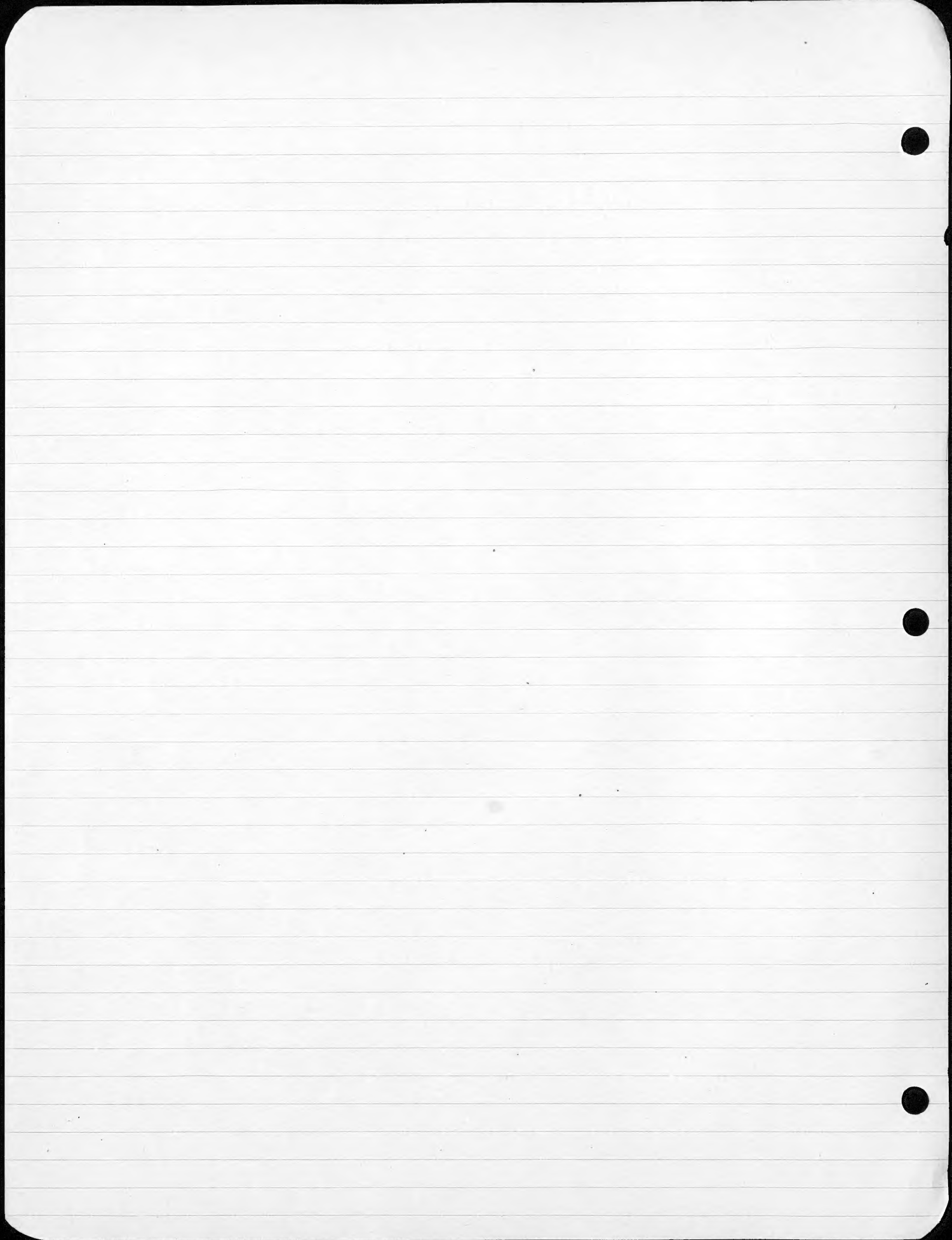
alt. 240 m.

Bonanga Creek, Bush River

Savanna forest

Monsoon forest of dry granite ridges

Riverine rain forest.



Bananga Bk

Savanna forest

19838. *Swietenia thurifera*. F. 6-7m. x 12-15cm Fl. cream.

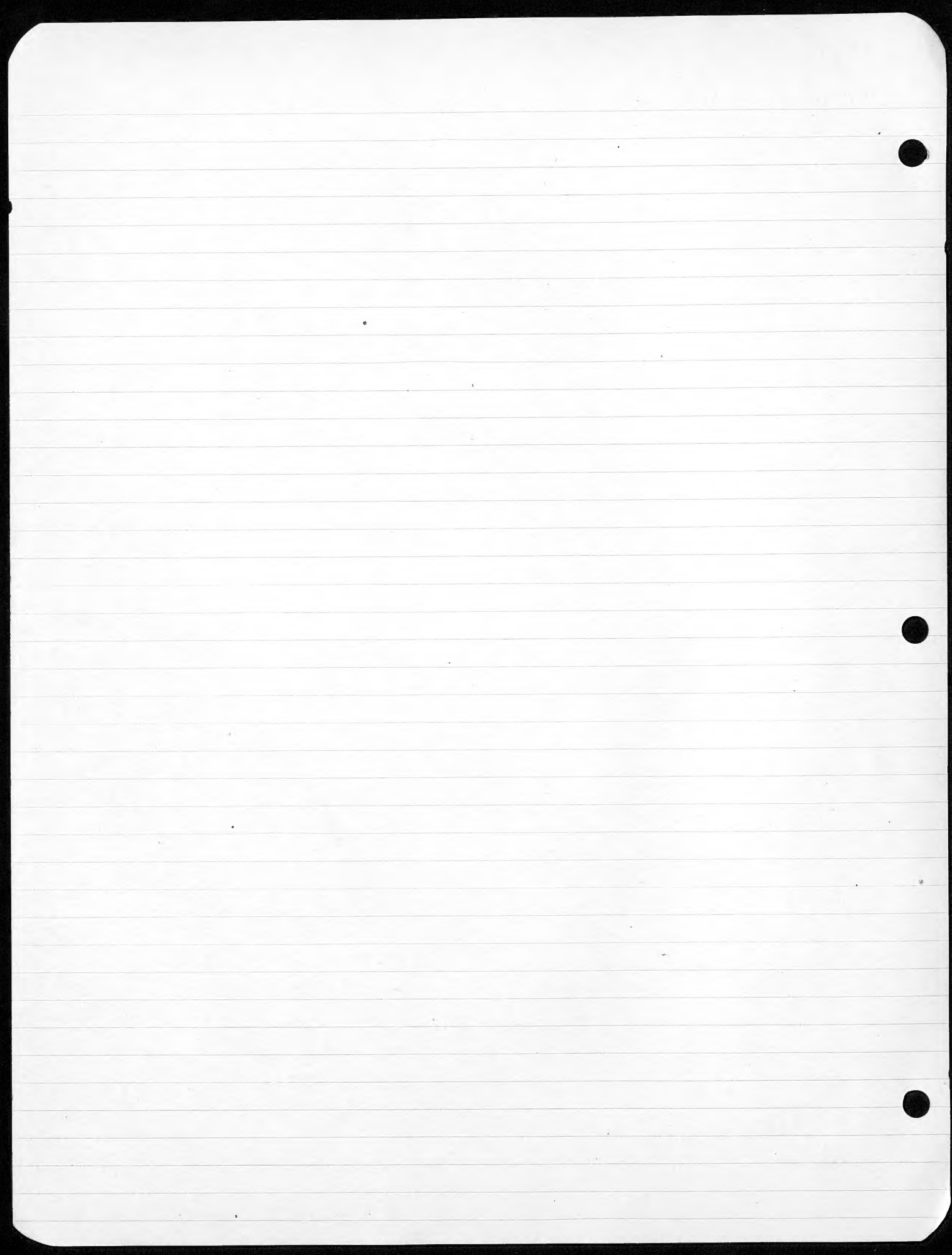
Monsoon forest

19832. *Pongamia malabaricum*. A char. overtopping tree to 25m x 1m. Fl. red. Deciduous
& leafless.

33. *Dioscorea*. P. on leaf strewn ground. 20-35cm. Fl. purplish pink.

37. *Albizia* cf. *procera*. C. 8-15m. x 15-25cm. Fl. ? Fl. reddish. Semi-deciduous
& ~~part~~ ^{part} bare of leaves. Bark yellow-gr, bumpy & flaky.

19755. *Homalium*, Small tree



Bonanga bk.

Riviera rain forest

Vines

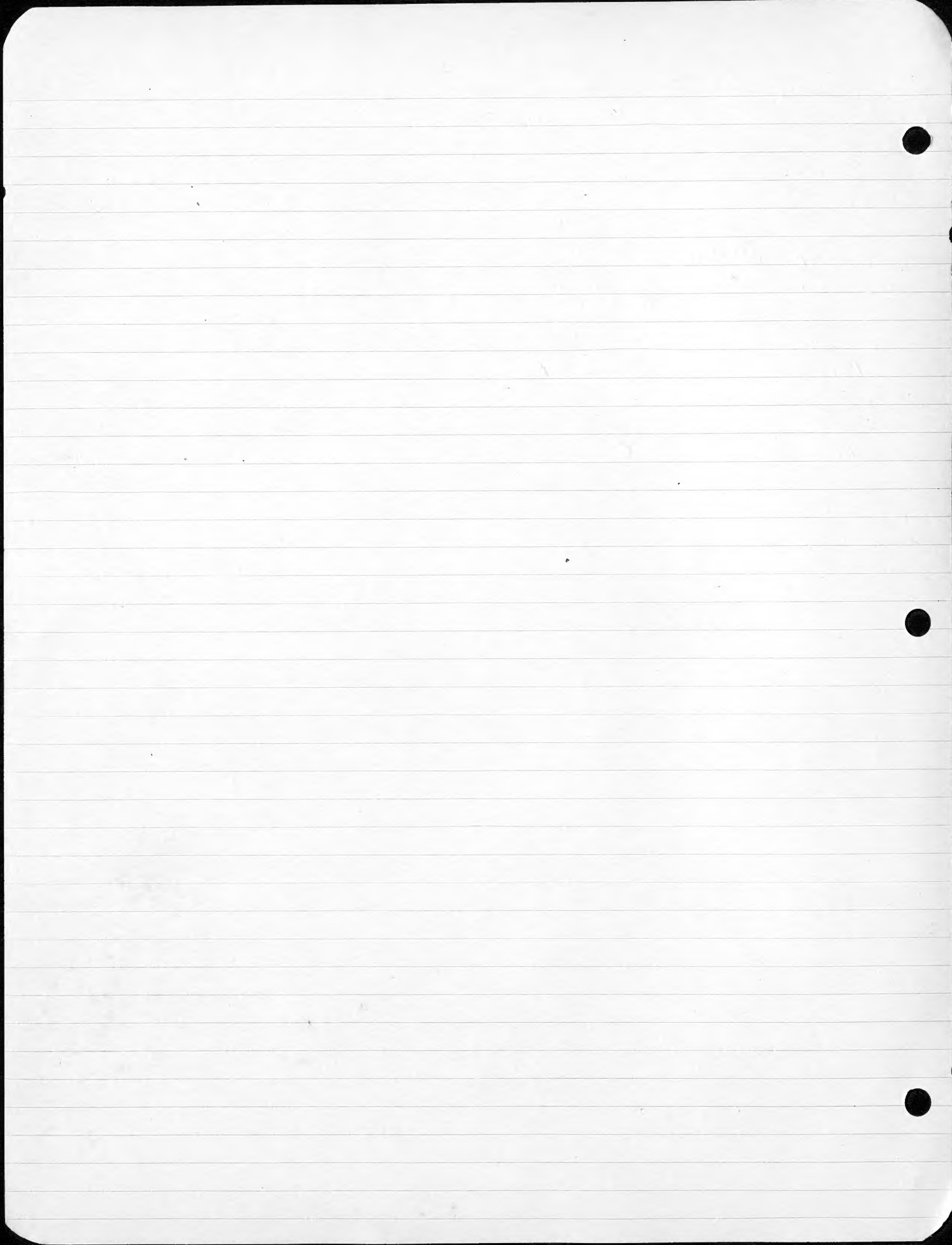
19824. *Pavetta*. 8 m x 15 m. Fl. cream, style red. Fl: ?; Fr. honey-scented.
25. *Quintinia*? Rain forested banks. Cr. Fr. wh. Fl: unisexual (all vines S. of Bonanga)
27. *Plat. Rancaya* ^{involucris green} 15 m x 35 m. Fr. yellowish. Fl: ?
28. *Tournefortia* sp. n. 3 m. Fr. greenish-wh. Fl: ?
34. *Stem.* ^{*Stem.*} 20 m x 25 m. Fr. yellowish. Fl: ? Near lower bank.
36. *Sup. Ranipris* ^{anacardioideae} 20 m x 30 m. Fr. greenish. Fl: ?
19868. *Pleiozippium* ^{*curatiforme*} *Salamandra*? F. 25 m x 30-40 m. Fr: ? Fl: dark purple.
69. *Ebenus*? 12 m x 20 m. Fr. green. Fl: ?
19831. ^{*Distichlis/horned*} *Palm.* (at water edge ± 10 m. Stem much swollen at base. Fr. Fl: red.

Vines

19826. *Phorad.* 4 m. Fr: ? Fl: immatures.
29. *Rhop. dioptera* ^{*peruviana*} 5 m. Another wh. Leaves 100-120 cm long.
30. *Vincuna* 15-20 m. Fr. green. Fl: ?
35. *Trich. and.* *Tournefortia* shrub 4 m. Fr. wh. Fl: ?

Herbs

19889. *Polanophora* *Plant* orange-yellow.
19890. *Melicanum* *Scattered* on high banks.



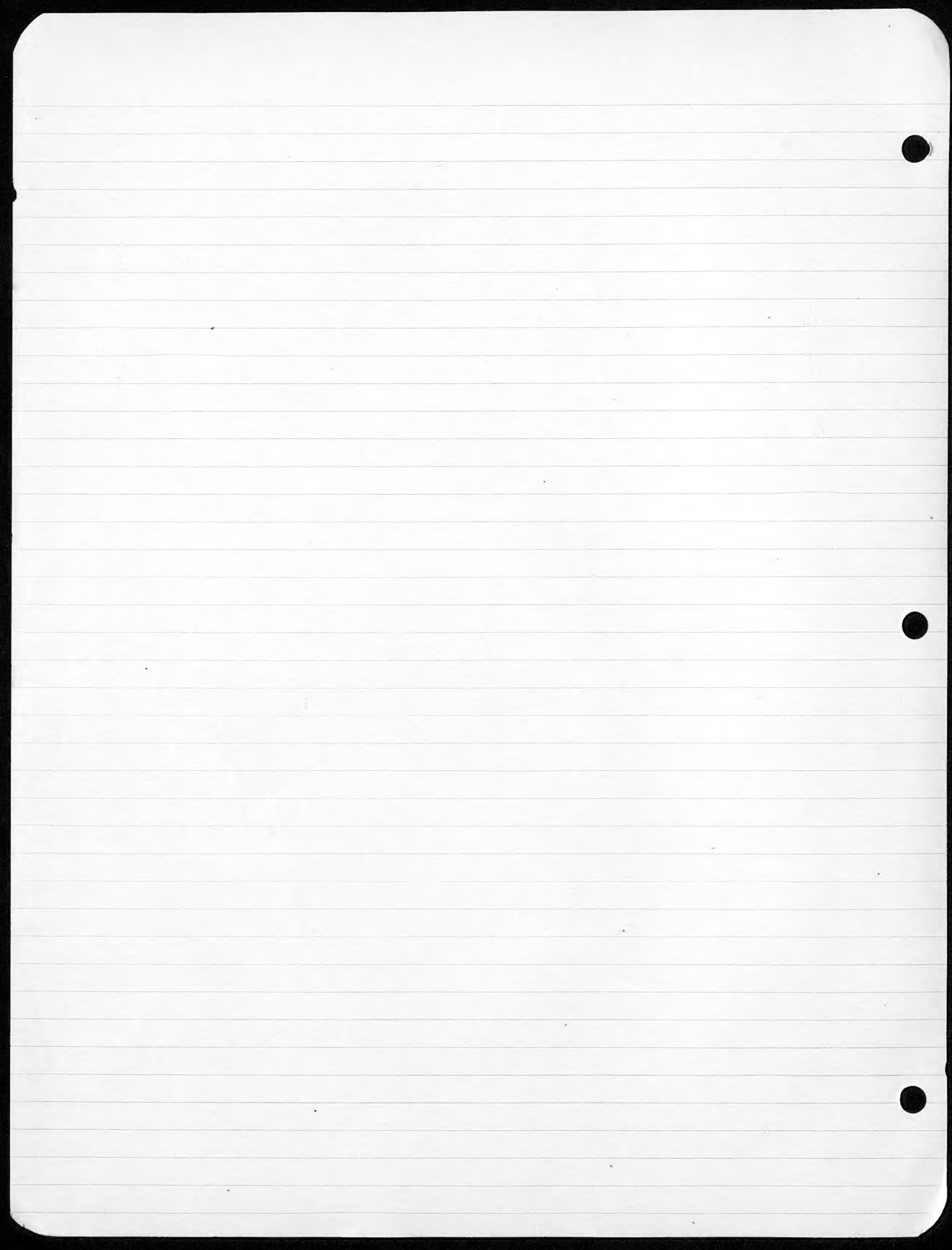
Leo Creek, Upper Nestlé River

alt. 4200. at camp.

Rain forest - top of range

Rain forest - creek banks & ravines.

Rain forest regrowth.



Too BK.

Rain forest - creek banks & ravines

Trees, canopy

19892. *Dist.* *Alseodaphne* *multicordata* F. 20-25 m x 25-30 m. Fl. ? Fl. yellow (Toyon Range fl.)
Trunk 3-4 m.

Trees, subtidary

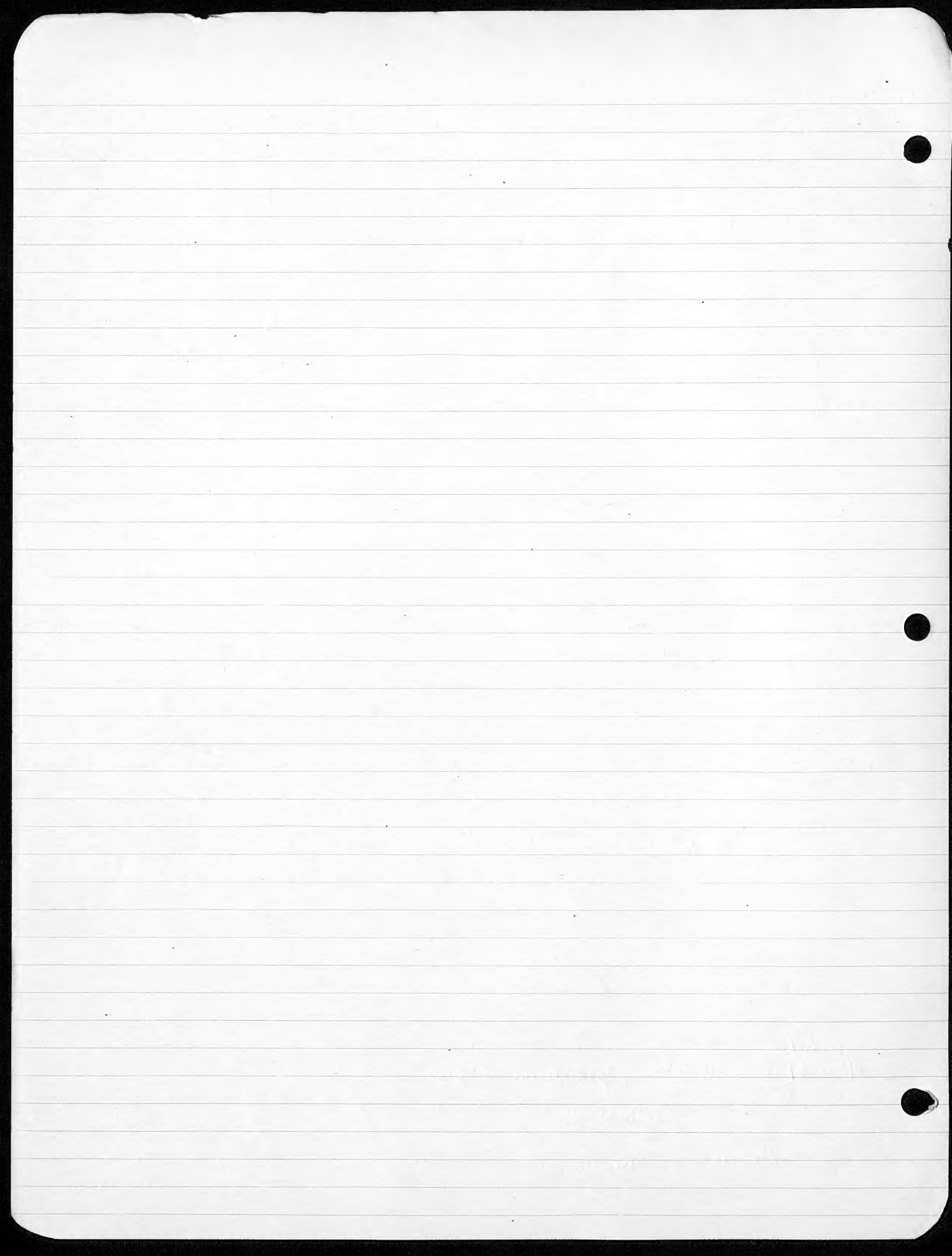
Trees, subtidary

19861. *Mythopyllum*? trunk flat. 12 m x 12 cm. Fl. buds. Fl. red, fleshy.
63. ? 12 m. Fl. buds only - Fl. orange.
99. *Toyon*? 15 m x 20 m. Great abundance near fl. Fl. ?
19895. *Furcraea* *viburnum* 15 m. Fl. ? Fl. black, fleshy.
43. *Phassiaea* *actinophylla*. O. on rocks or creek banks. 10-12 m. Large panicle red fl.
Stem usually unbranched.

19866. *Pandanus* F. ± prop. ± 10 m. See field label.
69. " F. in ravine P. 8. 7-8 m. Cylindrical heads in persistent grass.

Palms

~~*Woolly undergrowth*~~ *Phycolobium* *algense*
19860. F. on creek fl. 6-7 m. Fl. speckly orange-yellow. Regularly pinnate.
62. *Limnospadix* *integrifolia* F. 1.5-3 m. Fl. yellow to orange red. Several stems of different ages.
19866. *Hydrocotyle* *winckleriana* O. in ravines. Slender rot. stem & irregularly pinnate leaves. 12-16 m.



Los Bk.

Rain forest - creek banks & ravines

Woody undergrowth, cont.

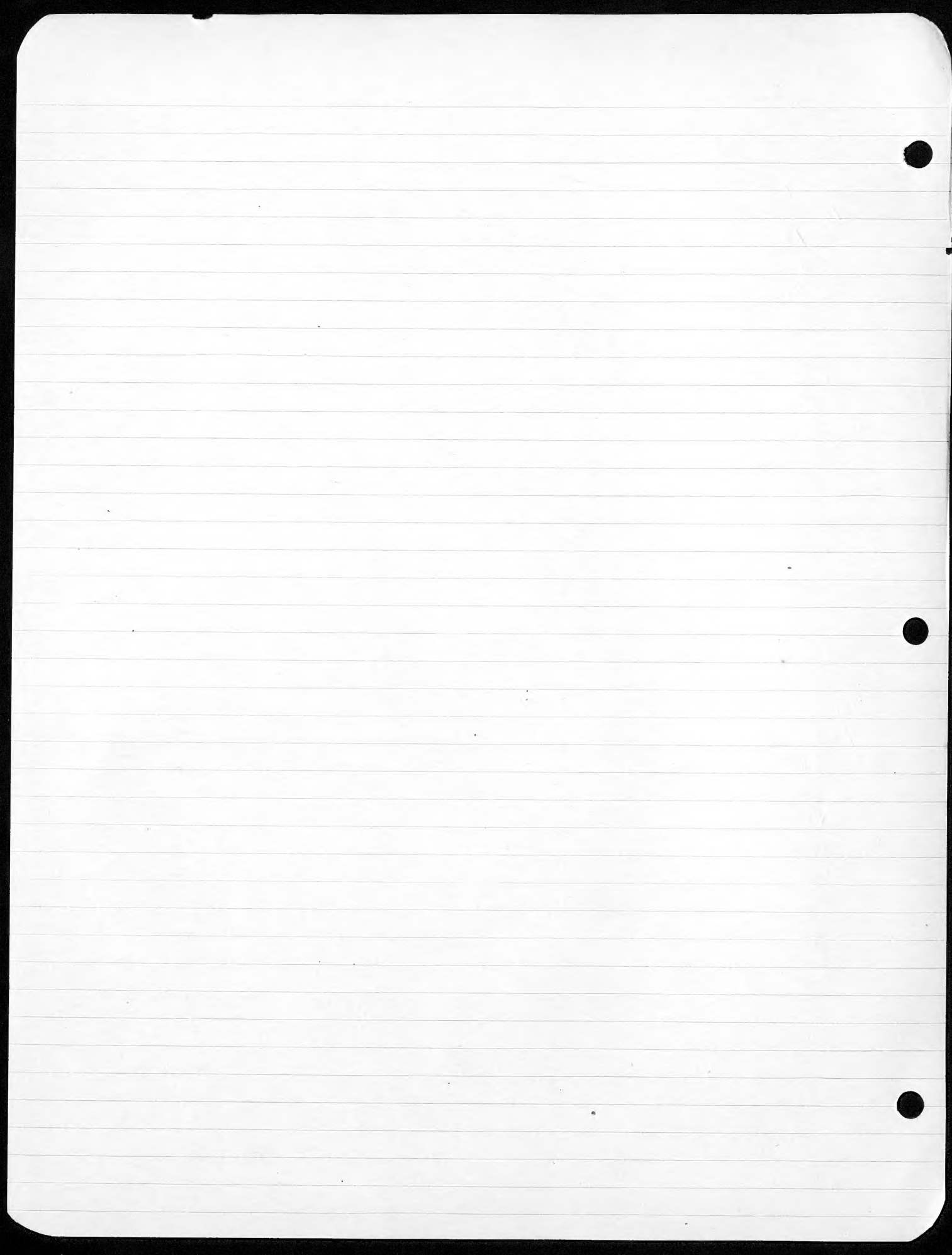
19847. *Lasianthus* Creek bank .70 m. Fl. wh. Ft. blue. Large stipules.
 48. *Kibara* Stamb 3 m. Fl. ? Ft. purplish-black.
 54. *Rub.* Stamb. 60 cm. Fl. wh.
 67. ? Stamb 1 m. Fl. ?
 83. *Rub.* Trees - 3 m. Fl. wh. Ft. green
 19845. *Clusia* *Gallocheil.* Rocky creekbank tree 3 m. Fl. wh. Ft. ?
 46. *Lonicera* ? " " tree 6 m. Fl. ? Ft. black, fleshy.
 47. *Solanum* " " Stamb 2.5 m. Fl. purple. Ft. ?
 48. *Piperaceae* low. tree 5 m. Fl. wh. Ft. unripe.
 51. *Pittosporum* Rocky edge of creek. 1 m. Fl. ? Ft.
 52. *Asal.* " " " 1 m. Fl. purple.

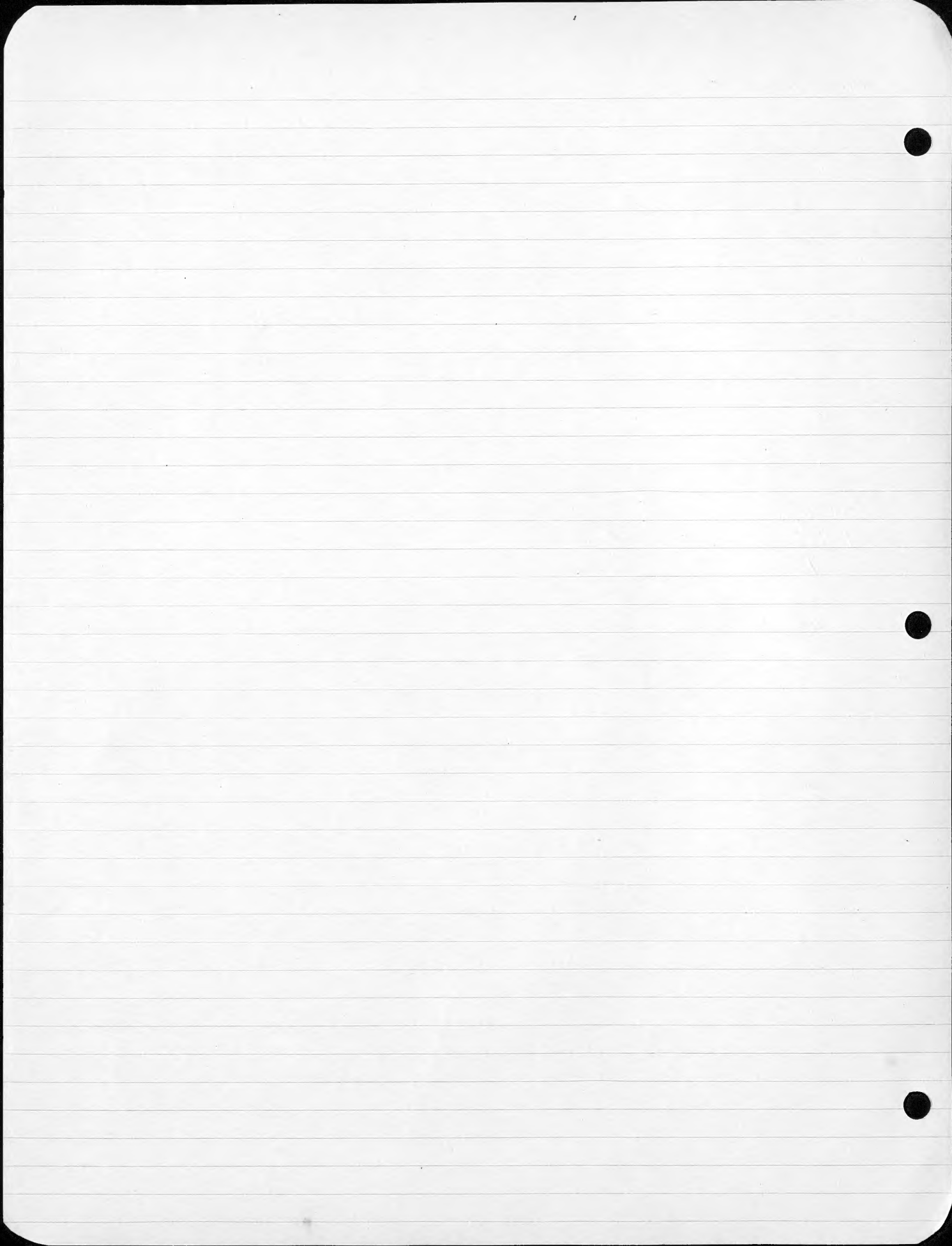
19859. *Cyathus* P. in ravine. 6-8 m. Leaves 4-5 m.; smooth & shiny above

Herbaceous undergrowth

19848. *Lindsaya* Rock crevices on creekbank. Subpinnate - 2-3 m.
 50. *Plethnum* P. in a rocky ravine
 53. *Ophiopogon* Ery. locally amongst rocks on creekbank. 20-60 cm Fl. wh.
 55. *Lindsaya* Rocky creekbanks 25-50 cm.
 63. *Nichomorus* Ery. " " Bark shining green.
 70. *Lindsaya* Rocky steep slopes
 74. *Neophytolips* Ery. rocky side of a ravine. Staked leaves 100-120 cm.
 78. *Adiantum* Rocky side of a ravine. 30 cm.
 19880. *Ely.* Tufts 40 cm.
 31. *Lindsaya* Ery. locally in very dense shade. 50 cm.
 33. *Gleichenia* Small groups on shady floodbanks. 60-70 cm.
 34. *Alpestraria* J. Fl. yellow.
 44. *Lil.* O. rocky creekbanks. 30-40 cm. Fl. wh. anthers black.
 62. *Ely.* P. in a moist gully. 60-70 cm usually sterile.

19929. *Bowmania* P. in dryish R.F. & old 2nd growth. To 180 cm.





Two BK.

Rain forest - creek banks & ravines

Epiphytes cont.

19909. *Hymenoph.*

Matted on a wet rock. 1-1.5 m.

36. *Orch.*

C. locally on moist creek banks. Very robust climbing sp. with stems twining around supporting tree to a height of 5-8 m. & leafy nearly 5 dm. Leaves fleshy. Fls. cream, spotted purple-red.

48. *Orch.*

Creek bank tree. 5-10 m. Minute white fls.

60. *Psittacium*

Fibrous trunk of a fan palm. Diameter 40-50 cm.

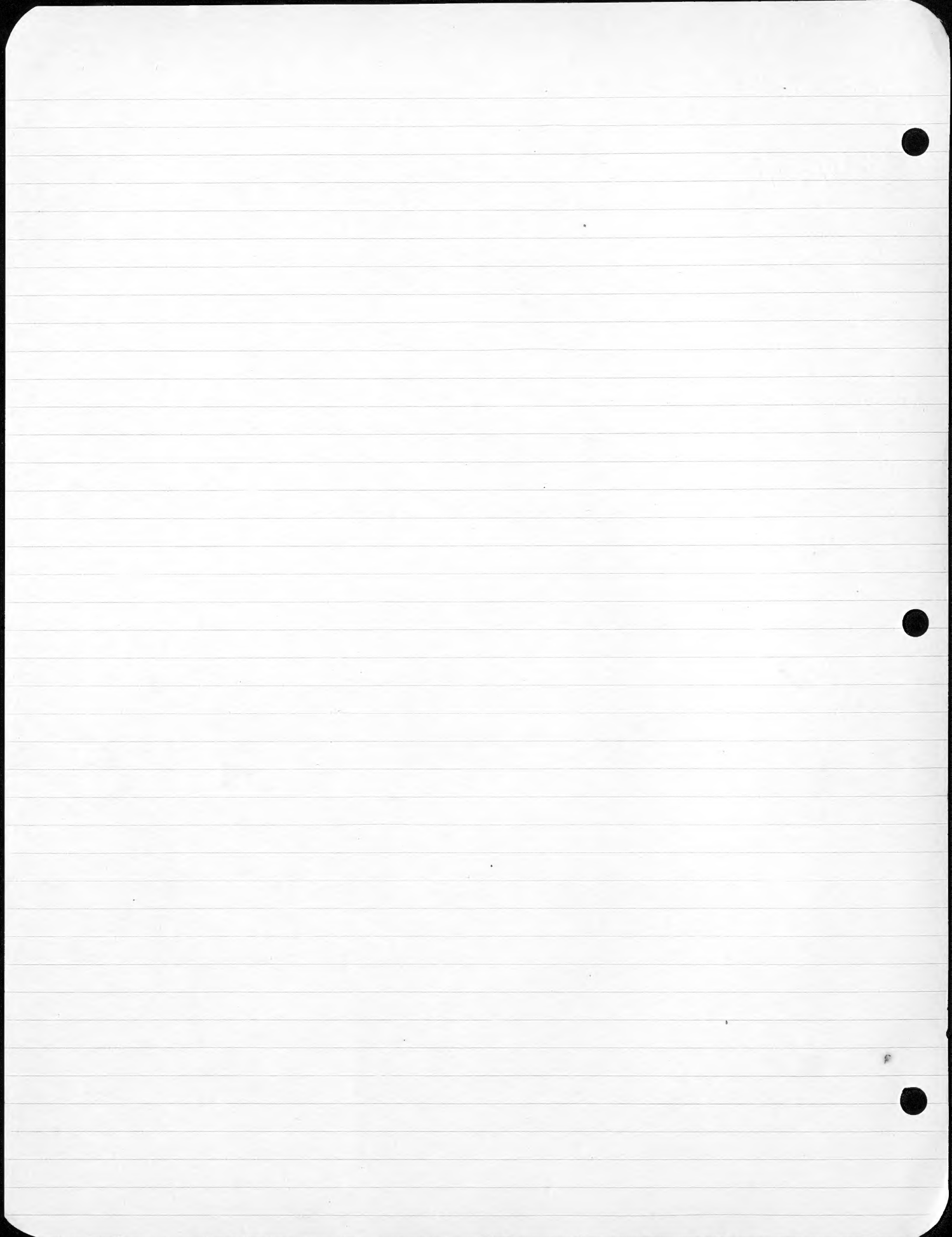
Epiphyte?

63. *Schizaea?*

Moist log on creek bank. 7-12 cm. (or mm?) "Like a blade of grass 3-cleft at the tip."

64. Fern.

Low epiphyte.



Les. Bk.

Rain-forest, creek banks & ravines

Mosses - terrestrial

19928.

Blay mat on of an old stone ledge.

Mosses - on rocks

19888.

Wet rocks in creek bed.

89.

Favoring seepage-wet rocks in P. F.

93.

" sunny moist rocks.

95.

Polypodium

Fashioned on a rock.

96.

Outcragging rocks on sides of a bluff

97.

Rocks on creek banks.

98.

Fashioned on rocks (gray-green).

19904

Moist rocks of creek banks.

05.

Outcragging wet rocks .. "

06.

07.

Seepage wet rocks.

Mosses - epiphytic

19858.

Base of a tree

77.

Trunk of a palm

78.

Base trunk of a tree

87

Open banks of stream.

90

Rotten logs.

91.

At lower trunks of trees

92

Lower " " "

94.

Rotten wood

19908.

At lower trunks of trees

09.

Mosses on " " & rocks

38.

Rotten logs.

53.

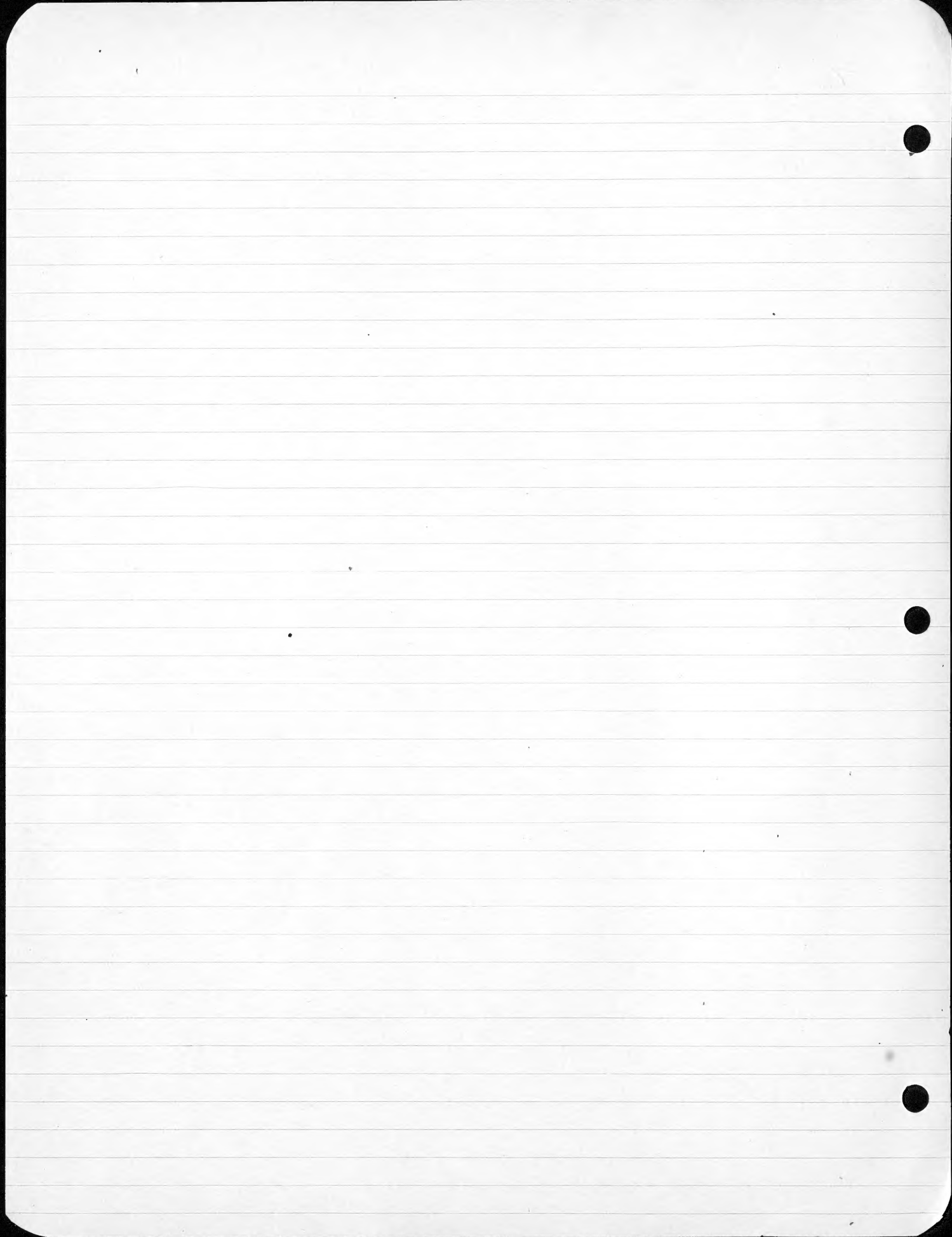
Living bank in u.f.

55.

Rotting wood

56.

Trunk of a palm



Lo. 6A.

Rain forest - Top of range

500 m. alt.

Trees, canopy

19915. *Garcinia*

25 m x 35 cm. Fl. yr-yellow. Fr. ?

22. *Podocarpus*

C. 20-25 m x 30-50 cm. Fr. fig on bank. Long leaves.

19967. *Arcaea birminghamii* C. on banks of streams & west of ridge

To 20 m x 1 m. Bambar Pocket, 1500 ft.

Trees, subcanopy *Hyptis* *cunninghamii*

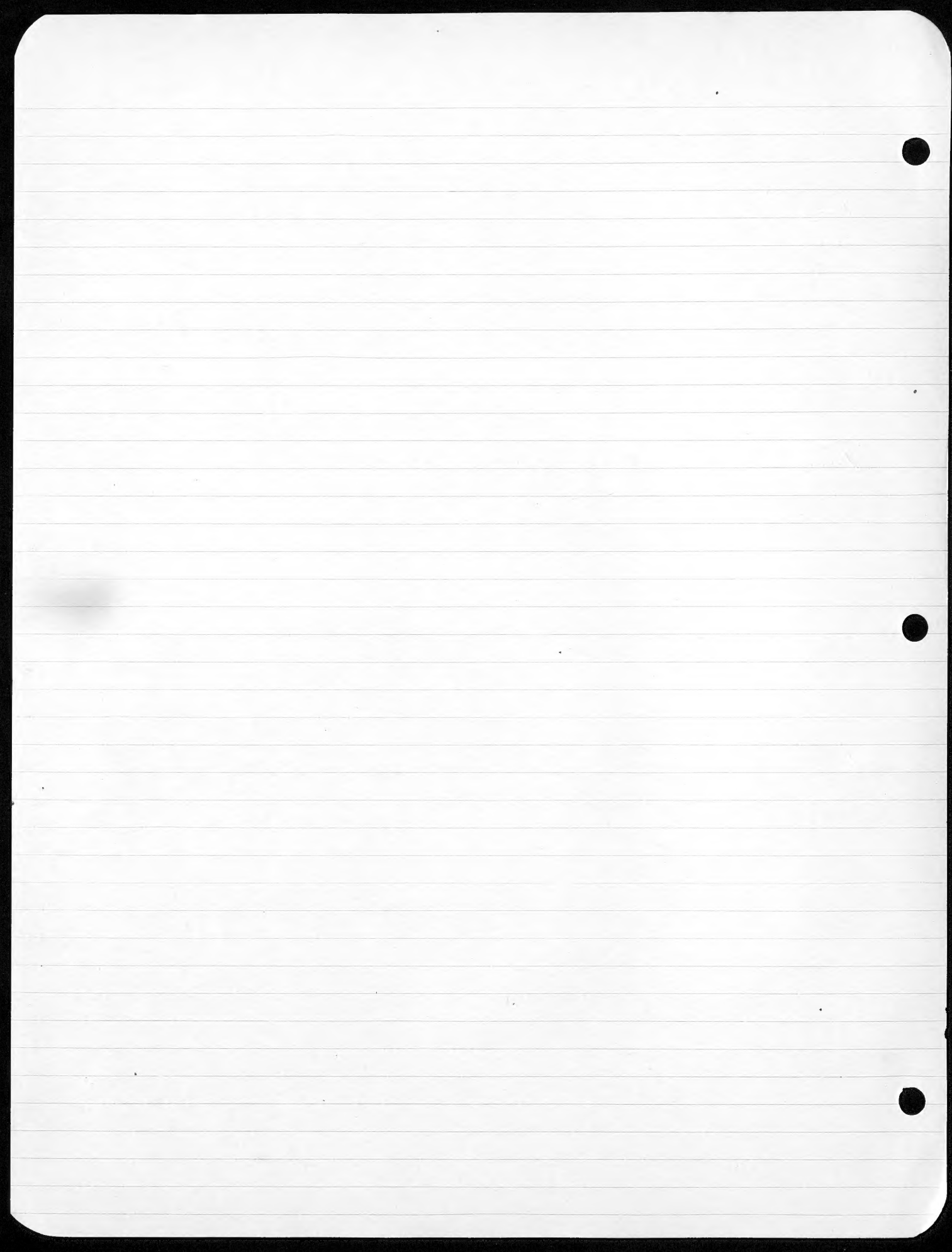
19925. *Binnaomum*

20 m x 25 cm Fl. white. Fr. ? Leaves & bark strongly sticky.

Trees, substage

19910. ?

F in dryish RF of ridge (500 m). Petals cream, sepals reddish. Fr. ~~white~~ ^{reddish}



Loo Ok.

Rain forest - Top of range.

Woody undergrowth

19920. *Delicia glaberrima* Tree 4-6 m. Fl. fr. purple. Fl. ? Leaves sharply toothed

23. *Alcal.*

Shrub 2-2.5 m. Fl. reddish, umbelliferous. (toyer sh.)

Herbaceous undergrowth

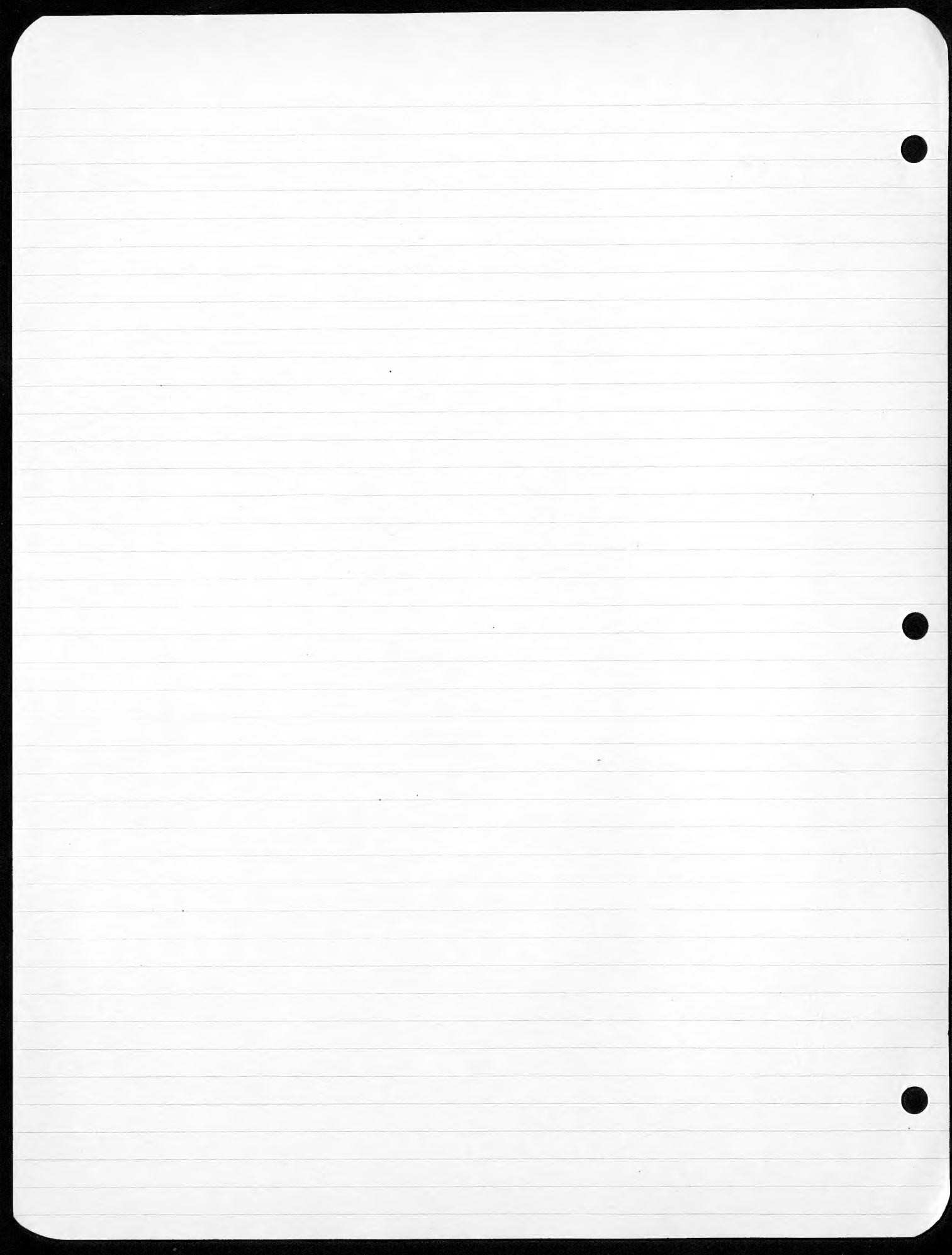
Climbers

19916. *Alcal.*

Scandent shrub 5-20 m. Fl. ? Fl. Black.

19. *Mimif.*

2 m. Fl. cream. Fl. ? Black wing stems.



Les BR.

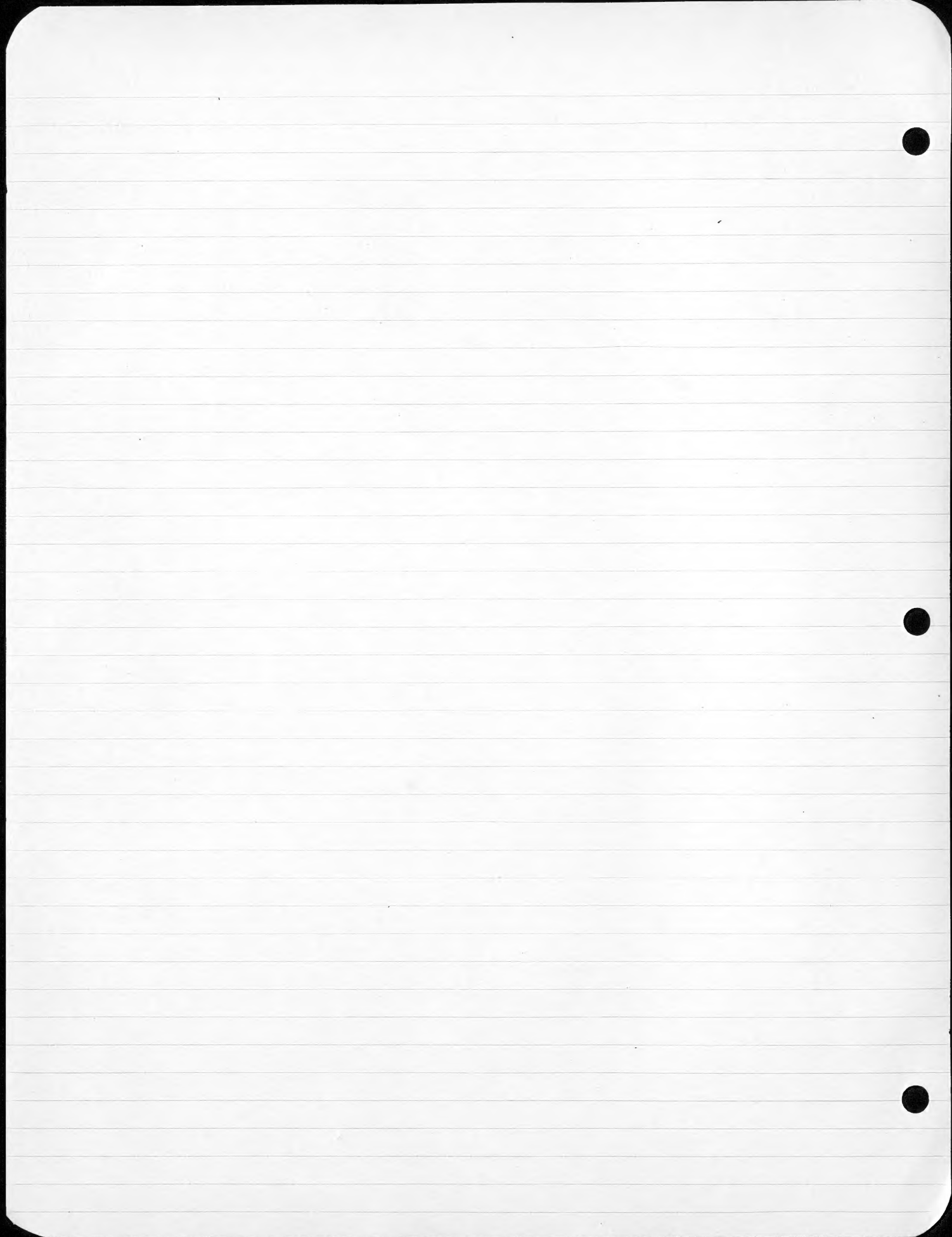
Rain forest - top of range

Epiphytes & parasites

19911. *Phymatopteris*. Mossy trunk of a tree.
17. *Pogonochloa*. Leaves pendent.
18. " On fibrous covering of a fan palm stem. Pendent to 2 m.
21. " trunk of a fan palm. Pendent to 1.5 m.
24. *Coronilla* stem twining 1.5 m showy pink fls.
26. *Platycentrum allicorne*. F.

Mosses

- ~~19911. Mossy trunks of trees.~~
19912. Lower trunks of a tree
18. Bry twigs in v.g.
14. " " "
27. A. lower trunks of trees



Lo Sk.

Rain forest upgrowth

Herb

Herbs

19840. Malw. 2 m. Fls. cream. "Pencil-like fruit just at top of leaf."

Herbs

19939. Fern. At base. Clump of the very thin ground flora of ~~the~~ old
and growth. (Diplazium?). 50-50 cm.

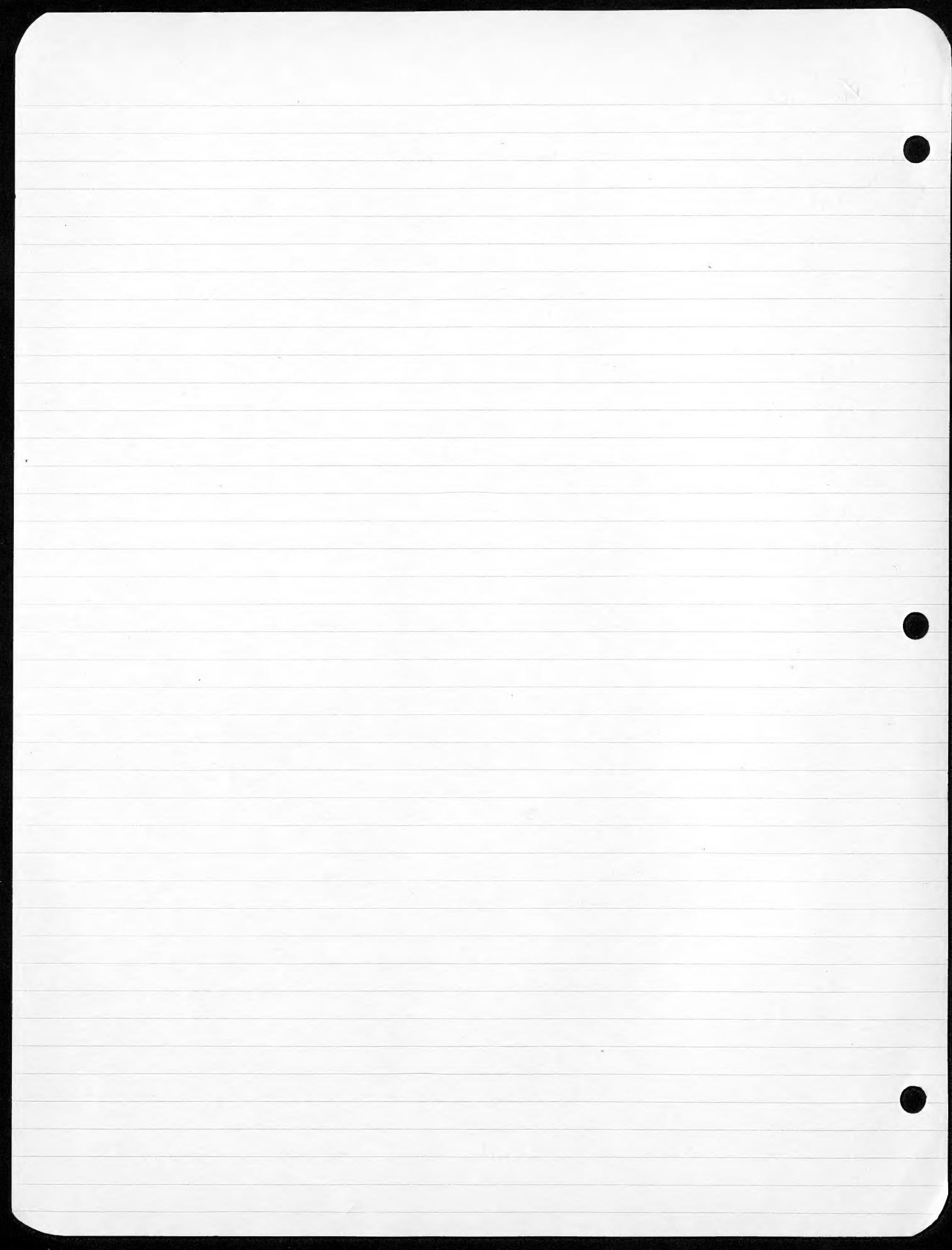
40. Dianella. " " " " 80 cm. Fls. pale blue.

Plant eaten by horses.

42. Cyb. " " " " 70-80 cm.

19929. Bowenia

P. in old and growth & in dryish P.F.

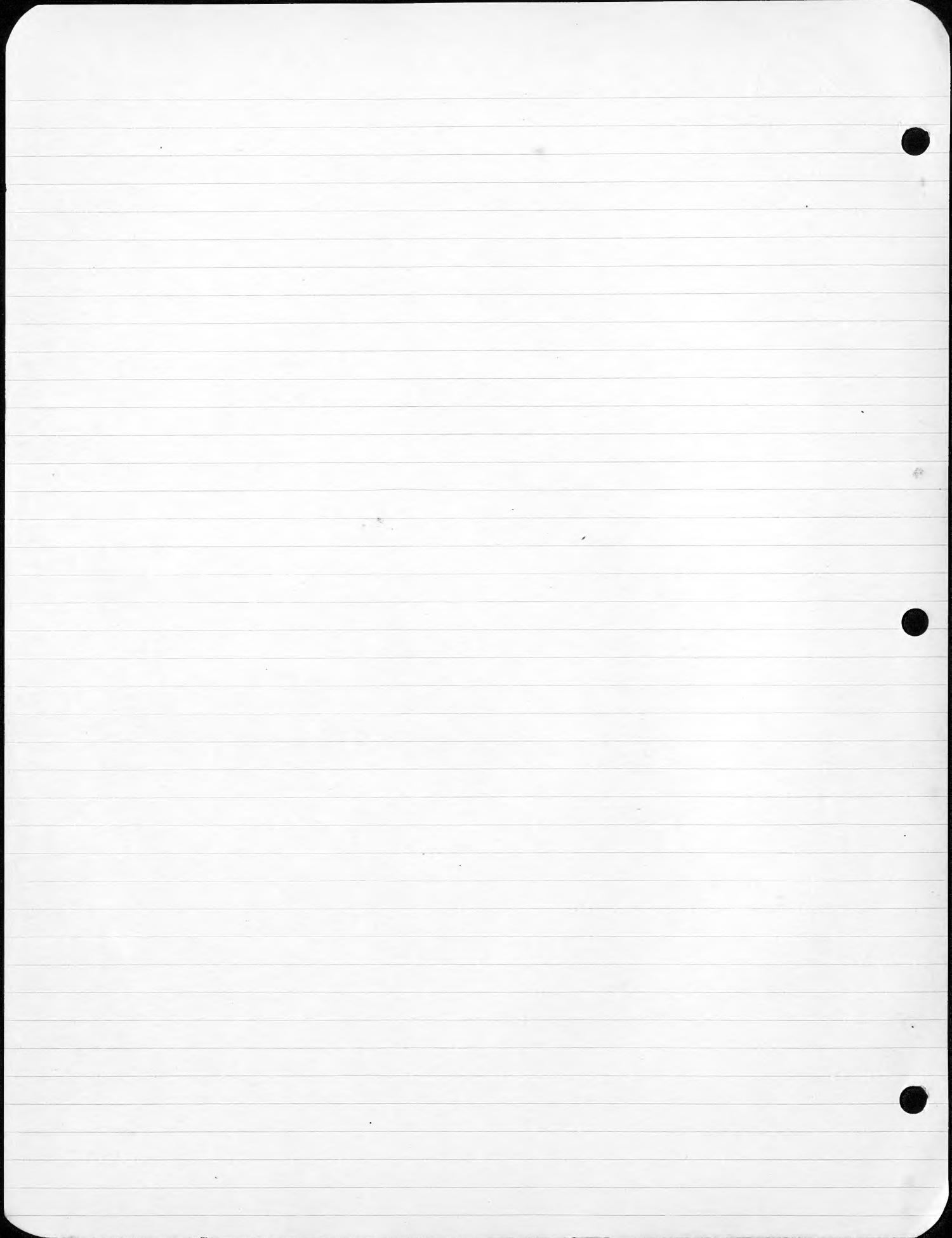


Les bk.

Rain forest vegetation

Glimbers
19844. ?

5 m. fl. white

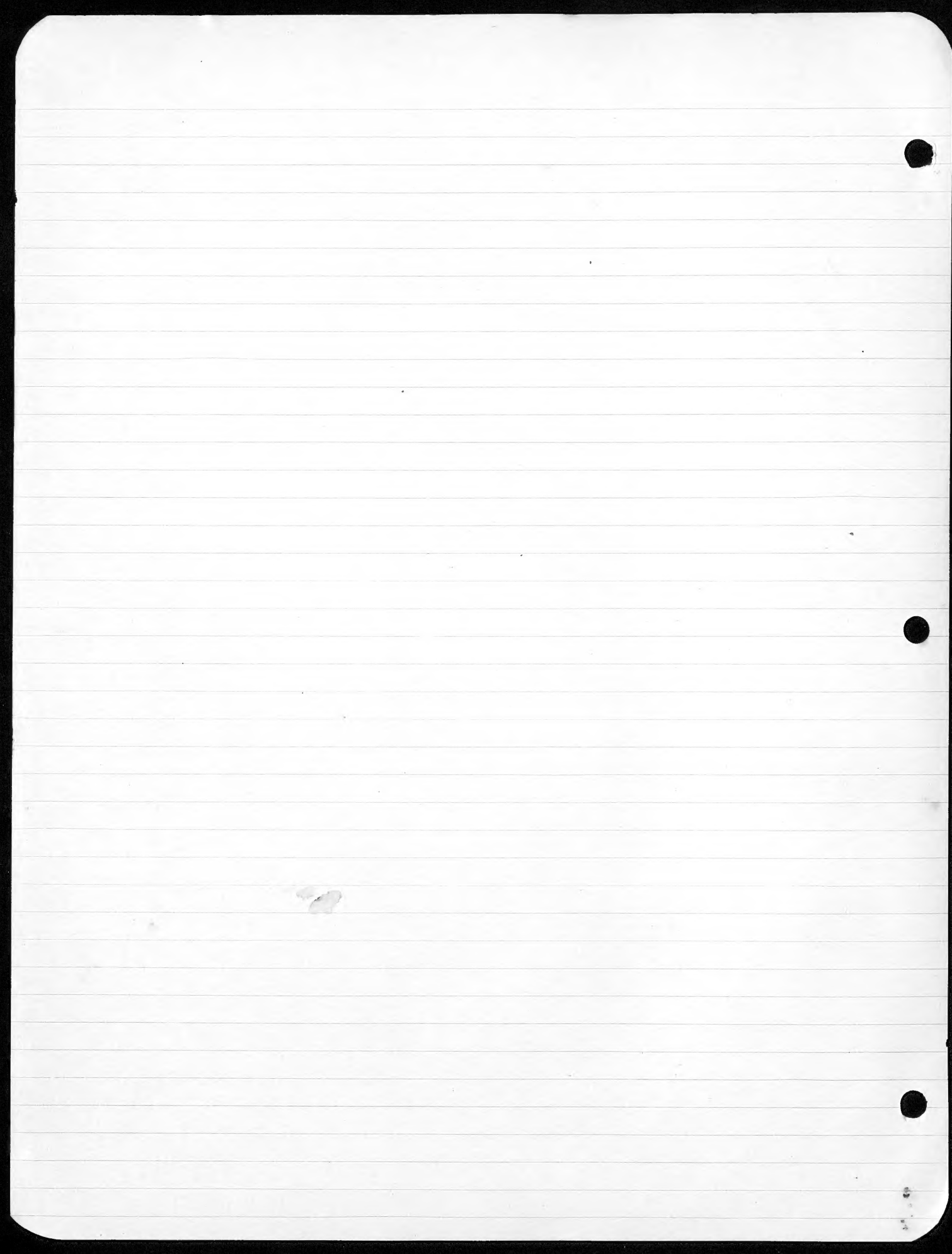


Shipton's Hut

275-358 m.

Rain forest of creek banks & flooded islands.
(Also gallery woods of valleys).

Savanna forest



Shipicaní Flat

Savanna forest

Trees

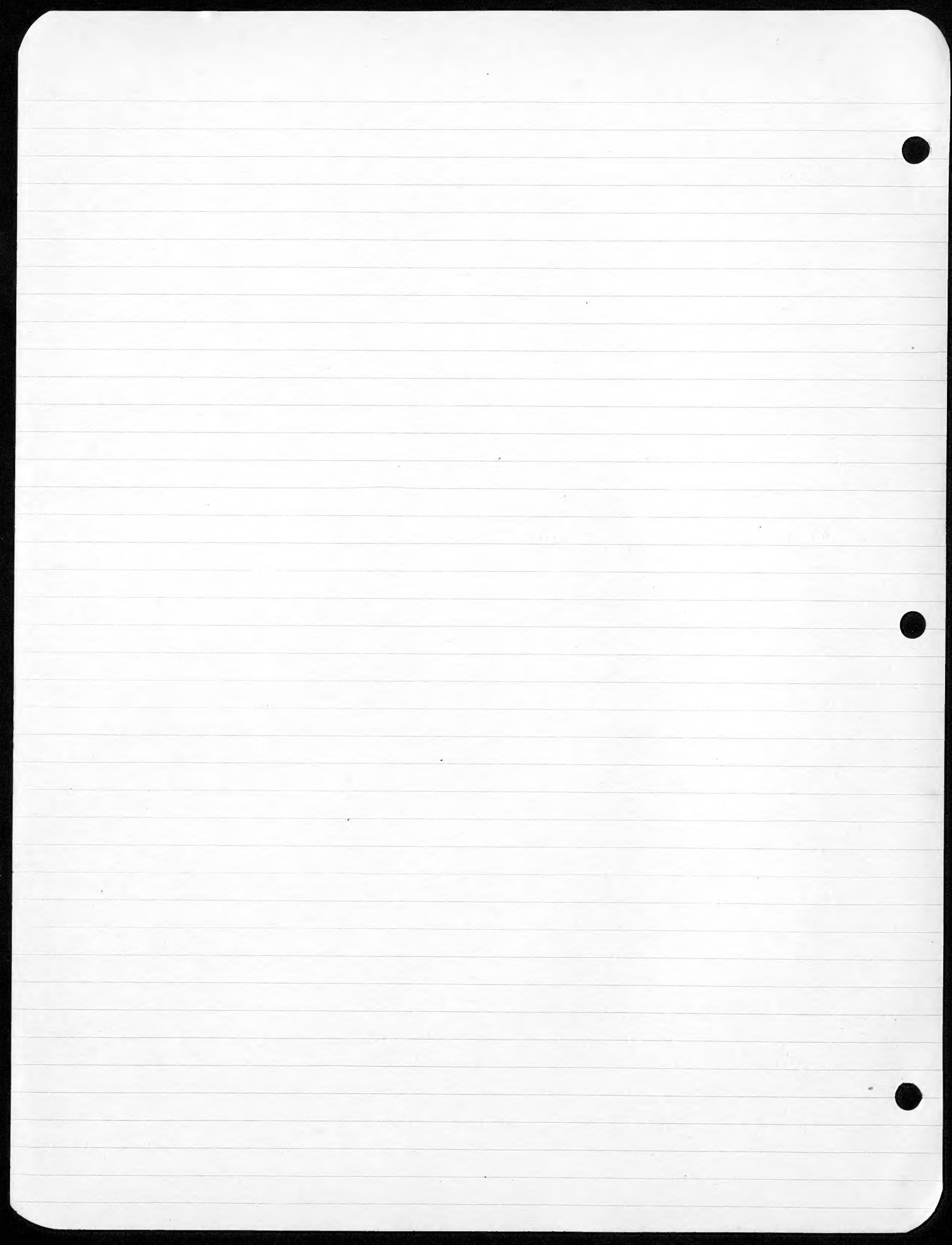
- 2057. *Ficus*? Banks of creek. 15m x 20cm. Fl. wh. (From Pascoe south)
- 20187. *Banksia* C. to 12m x 25cm. Fls. fr. yellow. Seldom flowering.
- 95. *Syncarpia* ^{staminate} C. subshrubby tree in tall st. 15-20m x 40cm. Fl. ? Fibrous brown bark.
- 20257. *Barringtonia* Forest oak (300m alt.) Locally A. in *Acrocypha* st. 15-20m x 40cm. Thick, corky, deeply channelled br. bark.

Shrubs

- 20167. *Callistemon* ^{virginianus} - Rocky bed of stream. Tree or shrub 2-6m. Fls. red.

Herbs & grasses

- 20008. *Camp.* C. 60cm. Fl. yellow, rayless (*Helichrysum*?)
- 20159. *Melaleuca* - Covering a granite shelf on bank of stream. ± 1m. Fls. white on still 2005.
- 60. *Scheuchzeria* F on rocky slopes 30-45cm.
- 65. *Aristida* C. on dry slopes. ± 1m.
- 66. *Panicum* Dry banks of a stream. ± 80cm.



Shipston flat

Savanna forest

Climbers

Epiphytes & parasites

20009. *Pogonochloa*. Large clumps low on trees. Pinnate lf.; shield leaves.
23. *Corchorus*. Fr. on *Casuarina* trees. Fl. green, later red.
20158. *Platycentrum alicorne*. C. (also in rain-forest).
20231. *Dischidia*. Mounted on bark of a tree. Fr. brown. Mostly grey small leaves.
31^A. *Cyclophorus*. A. in large masses. Sub-pendul 40-55 cm.
58. *Sinodotium*. 40 cm. Fl. wh. lipped yellow. Very delicate fls. in open racemes.

Mosses

20022.

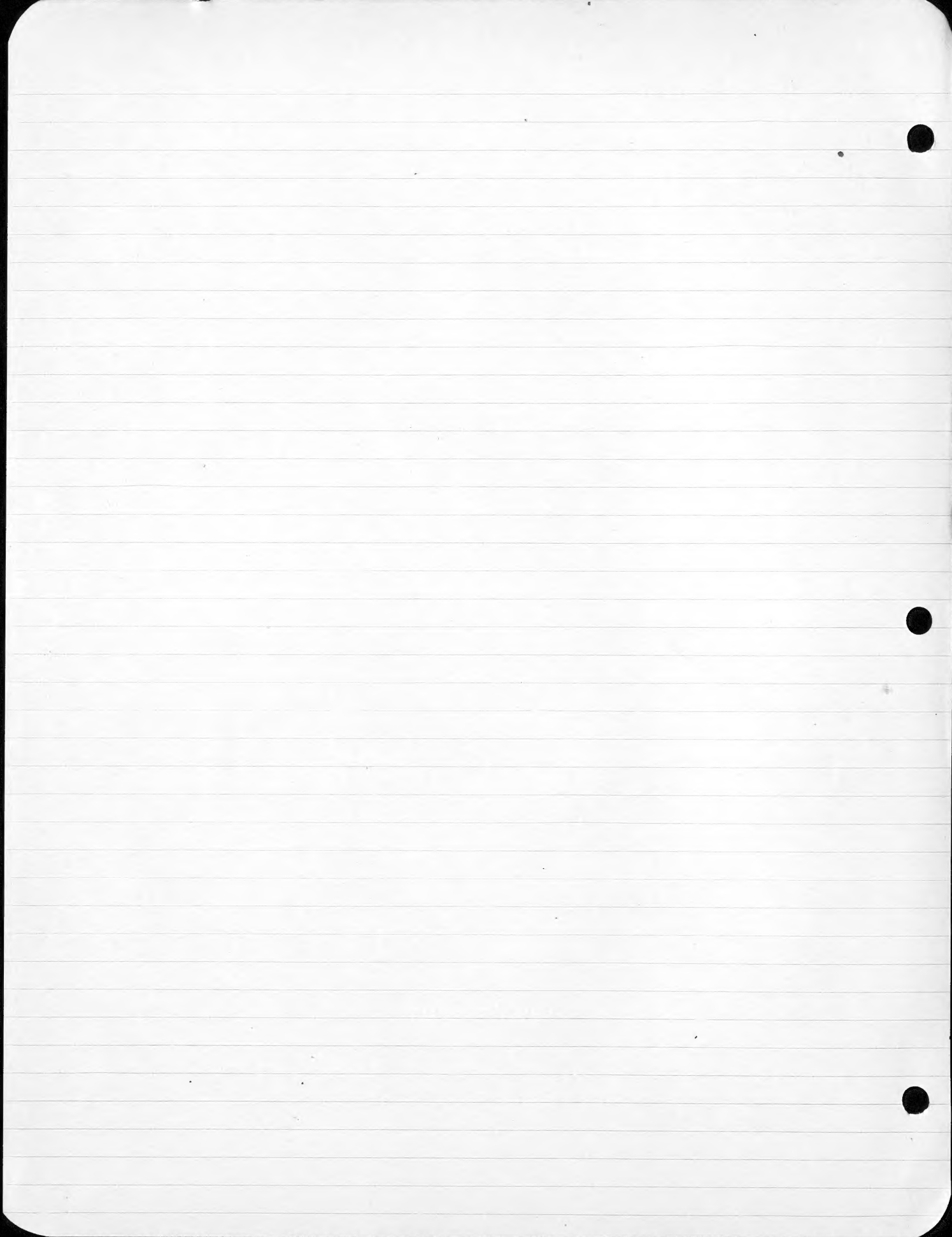
Shady road banks

20168

Very large grey-green cushions

20169.

Grey-green cushions on charcoal.



Thiptoni Fls.

Rain forest of creek banks & flooded islands.

also gallery woods of gullies

Trees

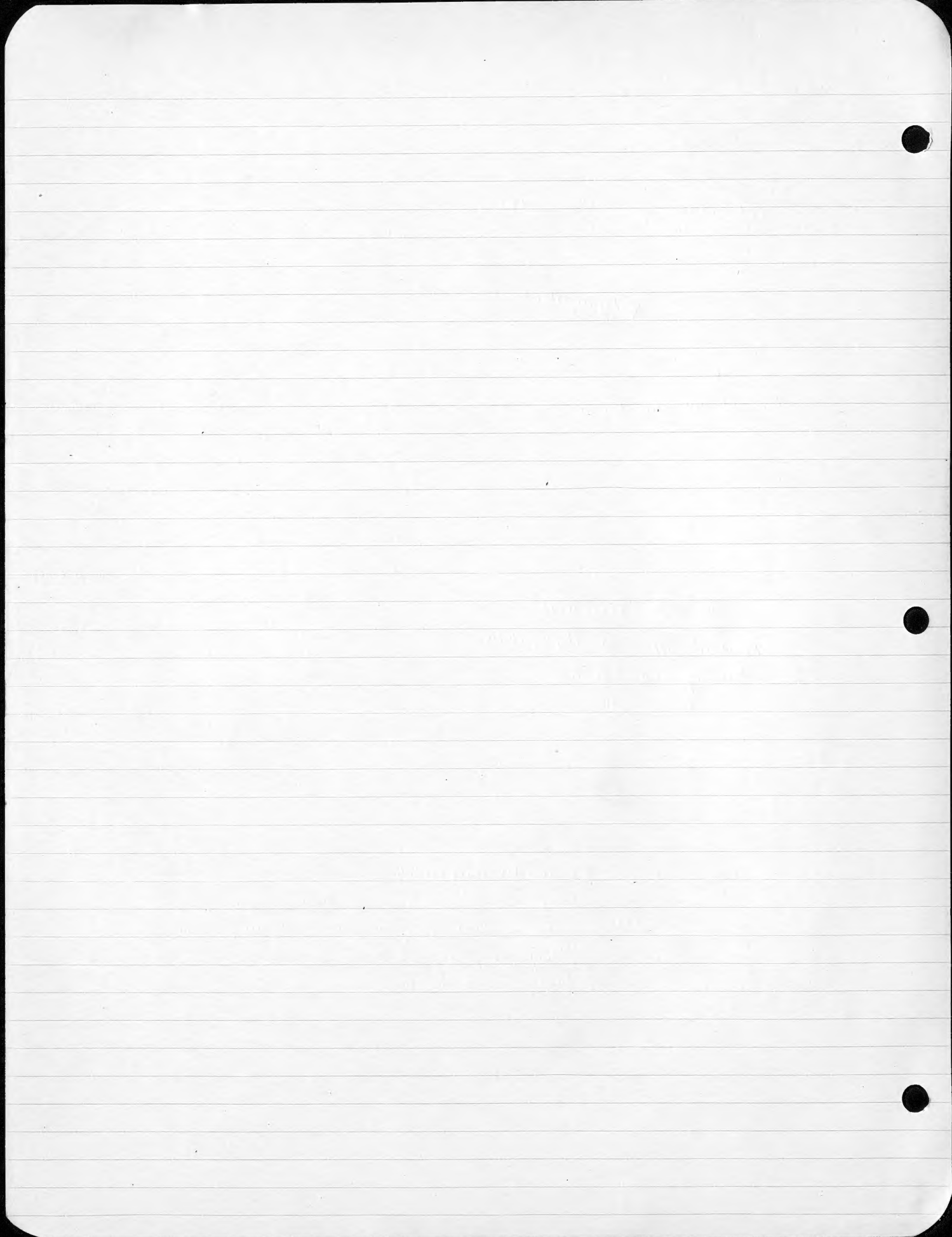
- Ralphianocarya involucriana*
 20014. ~~Unident.?~~ C. in gallery forest. To 20m x 30cm. Fls. yellowish. Fl: ?
 20164. Legum. P. in thin forest: To 20m x 30cm. Fls. ? Seeds red. Leaves occasionally bipinnate
 20200. *Xanthostemon* ~~X. chrysophyllus~~ ^{thio} *H. chin.* tree of rocky banks of creek. To 25m x 60-70cm. Fls. yellow. Fibrous-scap. brown bend. Almost past flowering
 26. *Morim.* One tree 10m x 20cm. in gallery fl. Fls. cream. Fl: ?
 27. ~~Arceuthobium~~ [?] *sharbyana* Gallery fl. 12m x 15cm. Fls. gr. wh. Fl: ?

Woody undergrowth

19993. *Bracaea*. Shrub, unbranched, 60cm. Fls. pale purple.
 20005. *Poposa* Tree 6m. Fls. cream
 17. ~~Myrsine?~~ ^{*Melicope similiflora*} C. in dense u.g. Tree or shrub 2-3m. Fls. cream. Fl: ?
 18. *Hedraeanthus* ~~porphyrochloa~~ " " " 3-4m. Red rotata fls. Fl: 7 or 8.
 19. *Eurychorda* ~~sp. nov.~~ " " " 2-4m. Fls. green, rotata. " "
 20162. ? " " Fern shade on bank of stream. Shrub 80cm. Fls. ? Fl: gr. white.
 98. *Pittosporum* 1 plant 1.5m. Fls. cream, waxy purple.
 99. *Randia* ? P. tree 3-5m. Fls. ? Long-br. scaly fl. (Lockyer's also)
 20225. *Psychotria* F. shrub 1m. Fls. wh. Fl: ?

Herbaceous undergrowth *Lomandra longifolia*

20010. ~~Knob?~~ A. large clump in semi-shade on moist banks. Fl 1m.
 11. *Gahnia aspera* ~~?~~ semi-shade in flood bed. Fl: red. Small clumps.
 12. *Cheritanthus* ? Frag. dry shady banks. 30-60cm.
 15. *Liasoga*. Matted on shaded rocky banks. 5-10cm.
 20261. *Bryopsis* Moist rocky stream banks. 40cm.



Shipman Fl.

Rain forest of creek banks & flooded islands

Epiphytes & parasites

20016. *Wolbajia* On woody u.s. fl. wh.

20157. *Dendrobium trinitiae*. F. clumps 80 cm. Fls. 2-4 wh. lip red green & with pink spur.

58. *Polycerium albivomum*. C. high & low. (also SF).

20230. *Ptilotum* Subpendul.

59. *Asplenium nidus* On rocks & low on trees in gully forest. To 1 m.

60. *Pogon* " " " " " " 100-120 m

Moss

20020. On drift logs.

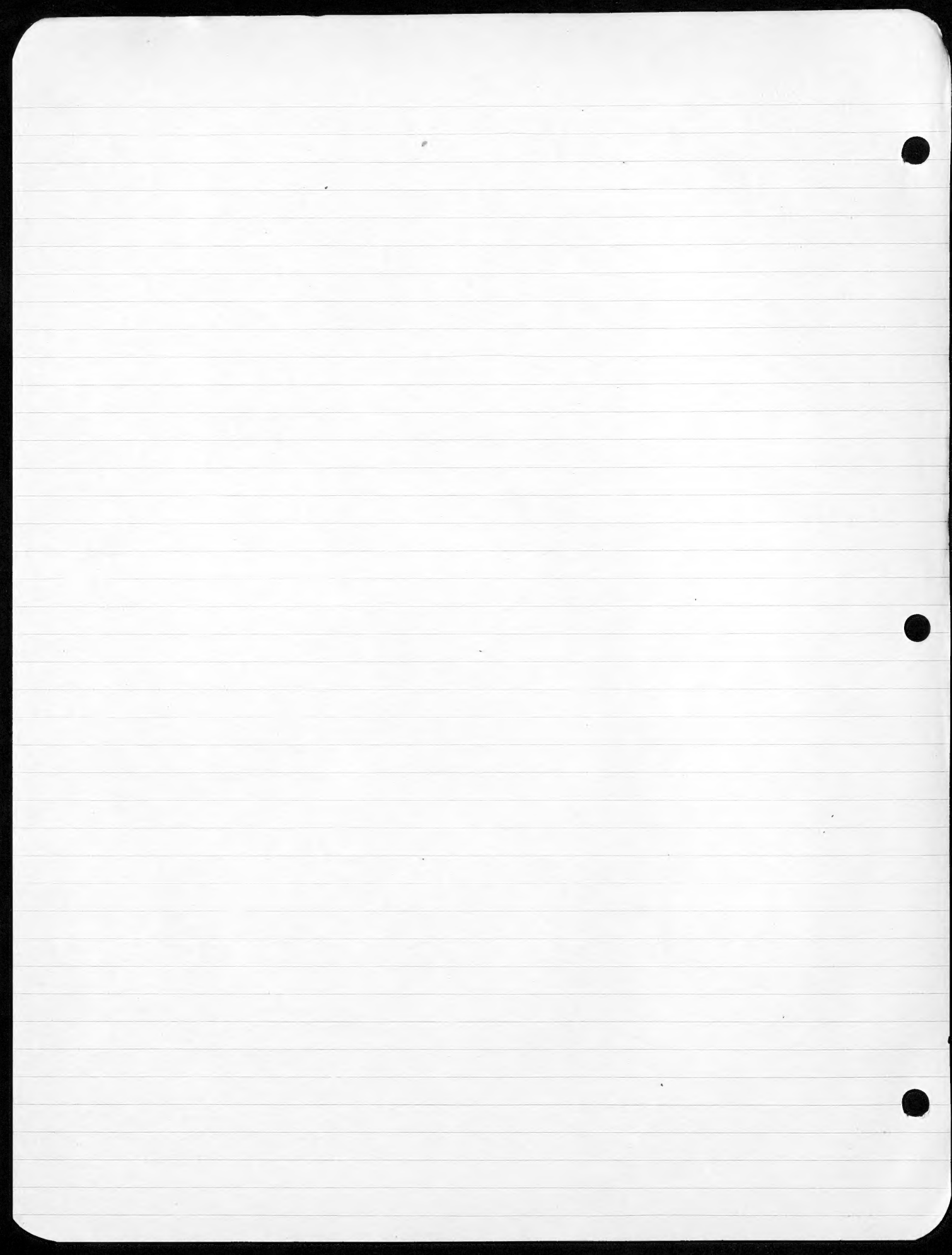
21. Rotten wood.

20168. Forming very large spongy-green cushions on moist shady banks of stream.

70. Moist granite rock on bank of creek.

Climbers

20228. *Gynerium* P. 2-3 m. in partly R.F. u.s.



Upper Parrot BK., Annan River.

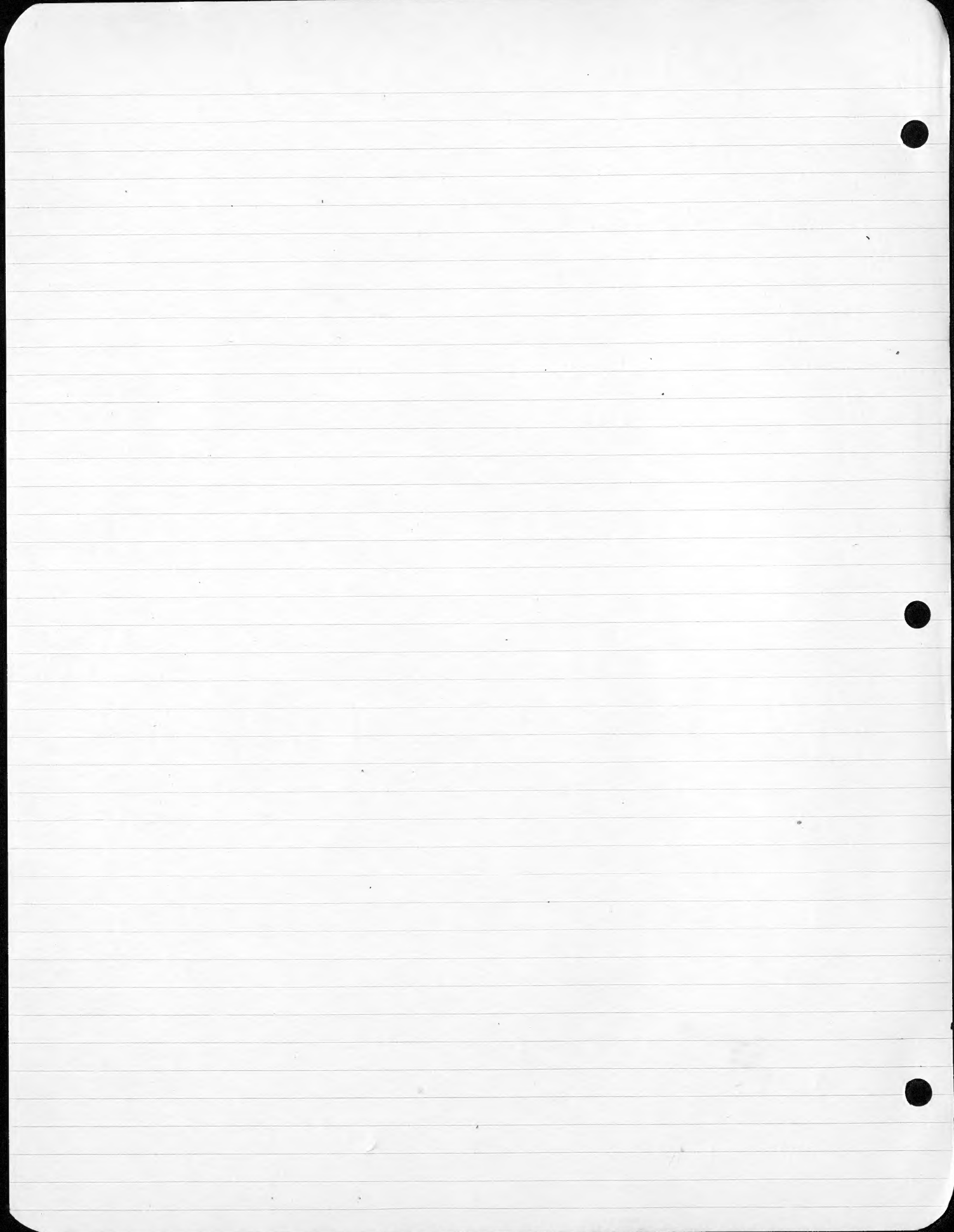
950 m -

Rain forest:

Rain forest regrowth

Savanna forest

350 m. alt.



Upper Panoi Fl.

Panoi forest

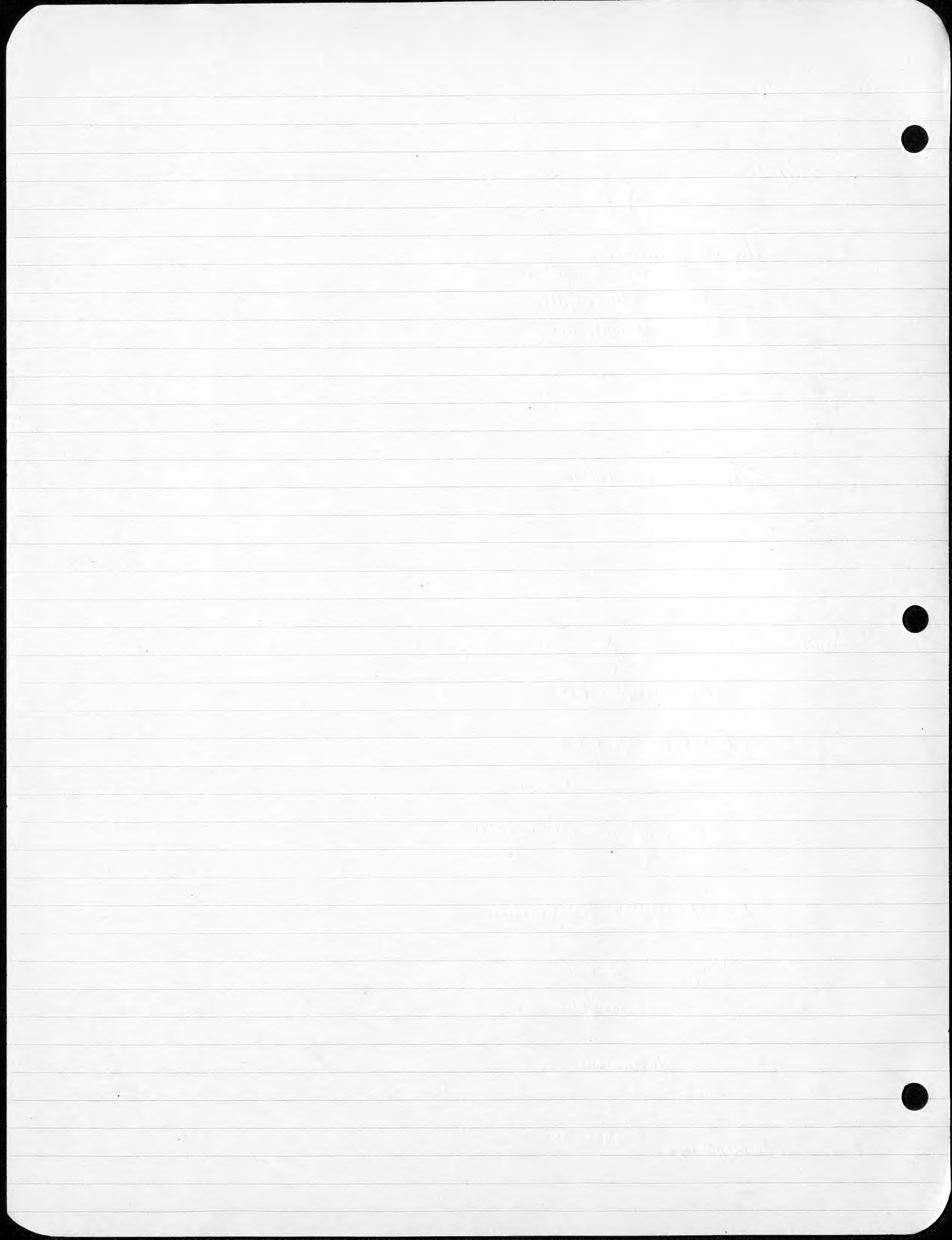
Canopy trees

20210. *Indiandra* ? glauca tree 25-m x 35-m Fls. orange. Fl. ?
 12. *Glaucocarpus Bannoffii* A. li 30-m x 50-60m. Fl. ?
 37. *Phy?* *pidemontaris* C. locally (400m). To 30-m x 60m. Fls. green. Fl. ?
 38. *Echinocarpus* *Stemna tangii* ± 25-m x 140-m. Fls. cream. Fl. ?
 69. *Stemna Macbraydi* 400m. To 30-m x 50m. Fls. cream.
 90. *Sagittaria spectabilis* A. 400m. ± 25-m x 40-50m. Fls. cream.
 98. *Osacacia antaeocarpa*? "tree hickory." A. in edges of R.F. ? on crest of ridge
 within the forest. To 30-m x 20m. Fl. ? Hard,
 hollowly pinnate fr. bark.
 20307. *Aral.* O. 500m. To 25-m x 50m. Fls. blackish-purple. Fl. black. (= Iron Range)
 19. *Stemna quadrifida* S. 450m. To 25-30-m x li 30m. Fls. green. Succulose.
 Most trees now leafless.

22 *Stemna*

Subsecondary trees *Osacacia megalocarpa*

20027. *Ardisia* # Bank of a stream. 15-m x 20m. Fls. dr-yellow. Fl. unisexual.
 20174. *Ardisia* # Subsecondary layer. 15-m x 30m. Fl. ? Fl. red, and purple,
 red black.
 80. *Ardisia* # F. banks of stream. 8-12-m x 10-20m. Fls. wh. Fl. dry
 deliquescent 2-lobed.
 20203. *Podocarpus* Black Pine. F. subsecondary li 20-m x 0.35m. Fls. cream fr. bark.
 14. *Podocarpus* *melicopoides* F. subsecondary 15-16m. Fls. yellow. 400m.
 15. *Pod.* 16-m x 30m. Fls. ? Fl. bright orange red; fleshy.
 36. ? Subsecondary 15-m (450m). Fl. ? Fl. blue.
 46. *Podocarpus* (Myrtaceae-like) C. 500m 10-15-m x 30m. Fl. ? Fl. soft, black. Leaves small
 50. 450m. 20-m x 25-m. Fls. green. Fl. immature of *Podocarpus*
 51. *Podocarpus* # Subsecondary 450m. 15-m x 25-m. Fls. yellow, Fl. 2-lobed.
 67. *Podocarpus* *corniculata* (fr. orange) 400m. 15 x 20m. Fls. cream & pink, canalic,
 mostly on lower part of stem.
 84. *Heliconia glabrescens* Subsecondary 450m. 15-m x 20m. Fls. yellow. Fl. ?
 88. *Myoporum*? *Dillenia* dr. R.F. 400m. 20-m x 25-m. Fls. wh. Fl. immature.
 Thick corky pale fr. bark.
 97. *Sarcocolla* of *maritima* R.F. edges 400m. 12m x 20m. Fls. cream. Fl. ?
 99. ? 500m. 12 x 20m. Fls. ? Fl. green, laterally compressed
 20308. *Rhamnus*? 500m. 20-m x 30m. Fls. yellow. Fl. ?



Upper Parrot Ch.

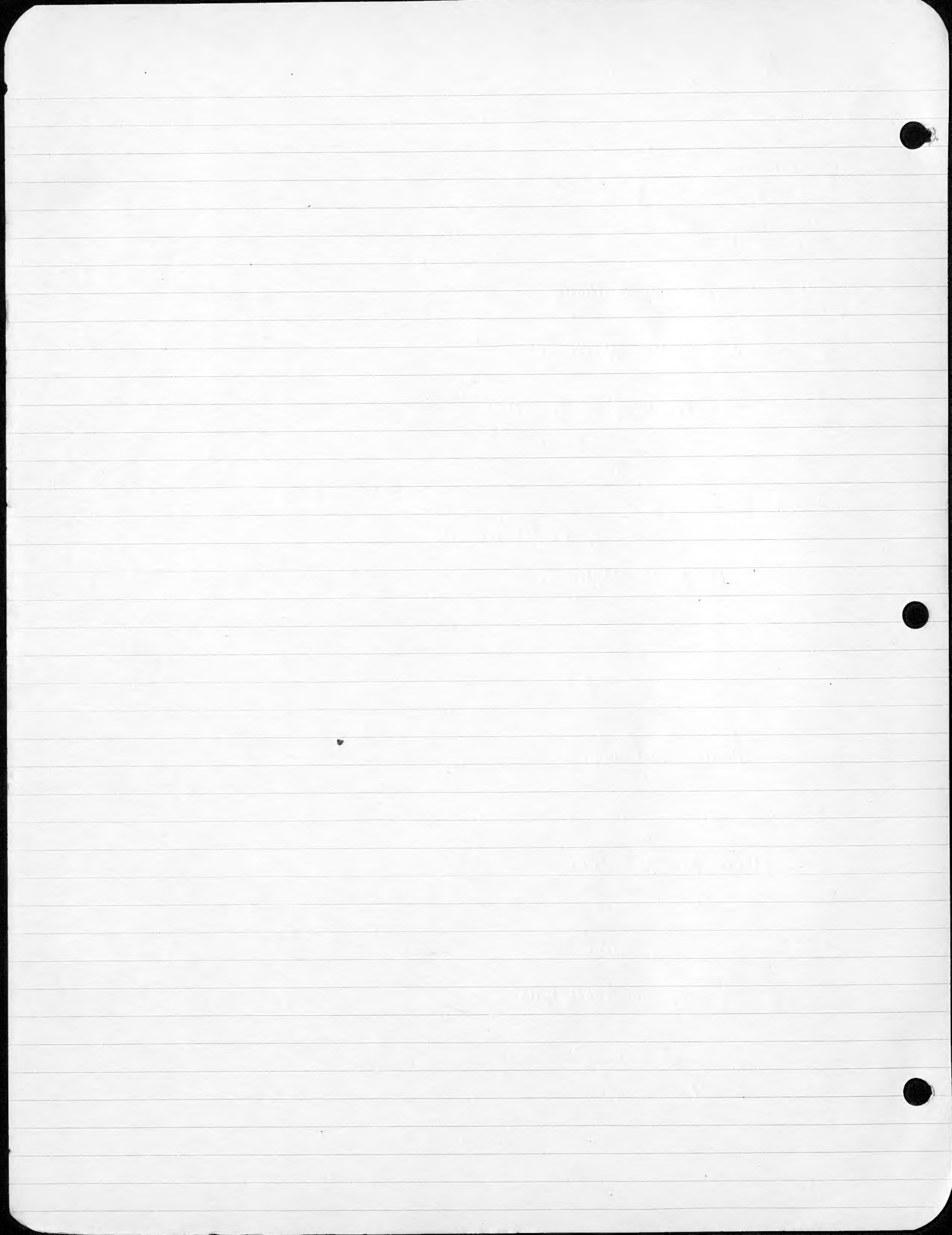
Rain forest

Embryonic trees

20204. ? ~~A~~ 7m. 16m. Fl. ? Fl: subglobous, red, 3-4 cm dia.
07. Diospyros One sample 7m. Fl. ? Fl: umbel
42. ? 12m x 15cm Fl. buds only. Fl. orange, hard, depressed globe 4.7m
5.3m
44. ? 10m. (500m). Fl. buds only. Fl. orange, subglobous ± 3 cm dia.
06. *Cestrum aurantiacum* Banks of a stream 400m. 12m x 20m. Fuscous fl. with long
~~? *Thapsal.*~~ straplike yellow-gr. petals in rolled in bud.
91. *Psychotria oppositifolia* 450m. 10m x 15cm. Fl. yellow. Fl. ?
92. *Rhynchospora* 5. in thin dry Pt. 400m. 8-10m. Fl. ? Fl: immature
20303. ~~*Psychotria*~~ *Rhynchospora* ~~*epiphyllum*~~ P. 500m. 4-6m. Fl. buds only.
04. *Tobol.* 450m. 14m x 15cm. Fl. ? Fl: purple-red. 3.5 cm dia.

Woody undergrowth

20031. *Psychotria* ^{off. *erythrophlebia*} F. tree 4-6m. Fl. pinkish-white. Fl. ?
20172. ~~*Psychotria*~~ *Psychotria rhytidocarpa* O. tree 3-6m. Fl. ? Fl: red, and orange, seeds black.
77. *Papanea* F. tree 3-4m. Fl. gr-white. Fl. ?
81. *Kibara* P. tree a shrub 3-5m. Fl. ? Fl: dark, receptacle orange.
84. *Calanum* F. 2-3m. not scandent, stems several.
20205. *Ural.* S. tree 1.5m. Fl. gr. stem simple. (400m)
06. *Pleomele* F. in more open parts (400m). 1-2m. Fl. purple.
18. *Psychotria ferruginea* One sample (400m). tree 2m. Fl. gr. Fl. ? stem simple.
- ~~24. ?~~ ~~A. tree 3-5m 275~~
39. *Myrsin.* Terrestrial-wet ground. tree a shrub 4m. Fl. wh. in dense shade
racemes. Fl. ?
41. *Melicope semilifera* A. tree 3-5m. Fl. cream. Fl: delicate.
45. *Psychotria* C. in well lighted situations 500m. Shrub 1-2m. Fl. wh. leaves small
4 claud.
47. 500m. tree 3m. Fl. ? Fl: immature. leaves shiny leafy grey below
64. *Limnospiza minor* 1m. stems several. Fl. yellowish orange. 400m.
83. *Solanum* O. under open canopy conditions 450m. Shrub 2-3m. Fl. purple.
86. ~~*Psychotria*~~ *Psychotria leptophylla* 450m. tree 5m. Fl. yellow. Fl: 5-6cm.
20310. *Urtica* A. edges of a rocky opening 500m. Shrub 1.5-2.5m. <sup>flowers
lower than
th. of 20310. 8.</sup>
11. *Rub.* A. under broken canopy 550m. large wh. fl. strongly <sup>and dense
2cm dia</sup>
17. *Urtica* O. 450m. tree 3-5m. Fl. buds. Fl. purple. leaves
radial at apex of the fine erect branches, 50-110cm
1 cm pet.
20302. *Gyneria* O. in gullies 550m. large sh. to 12m tall. Numerous arched
& spreading fronds ± 5m long.



Upper Paroi Fr.

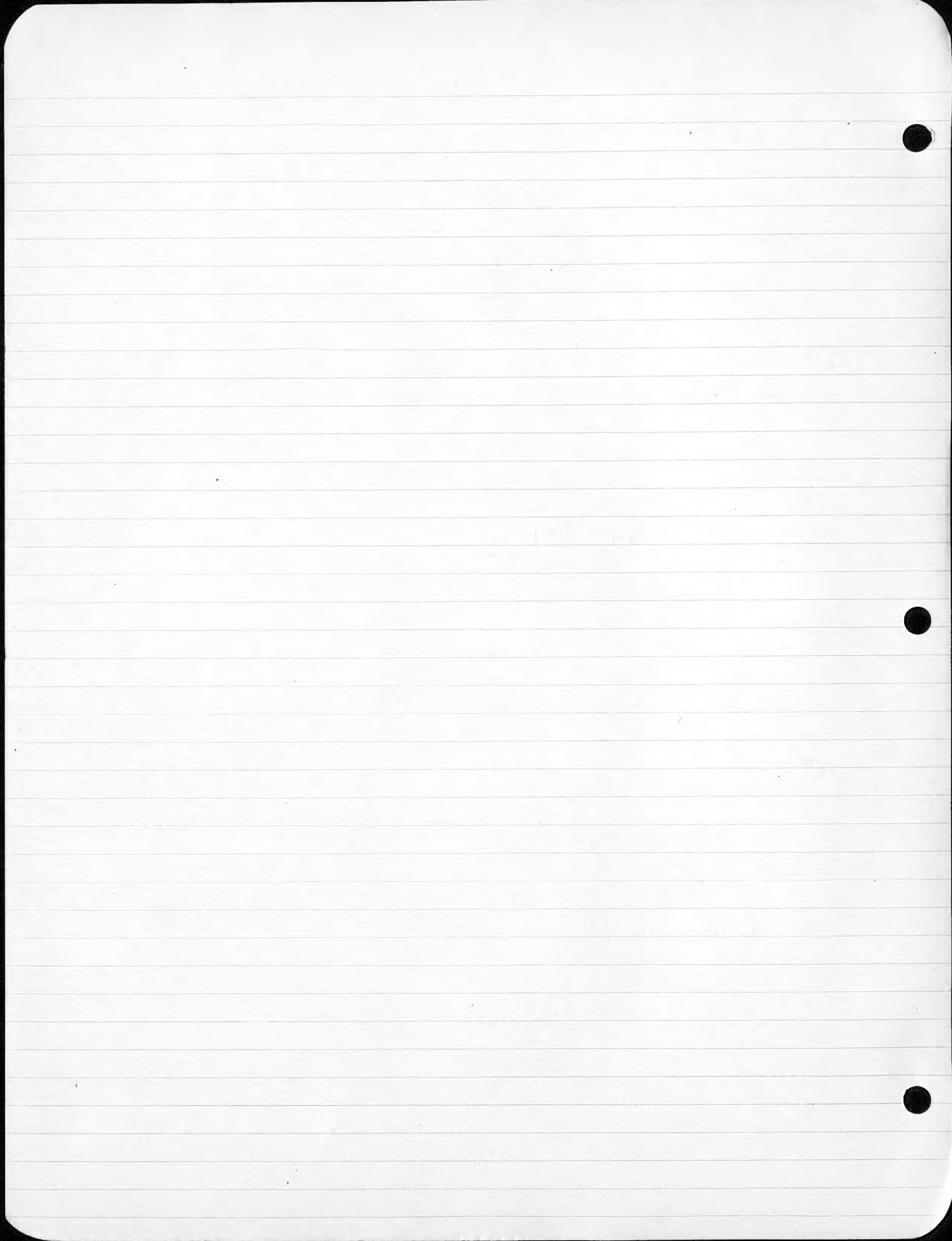
Rain forest

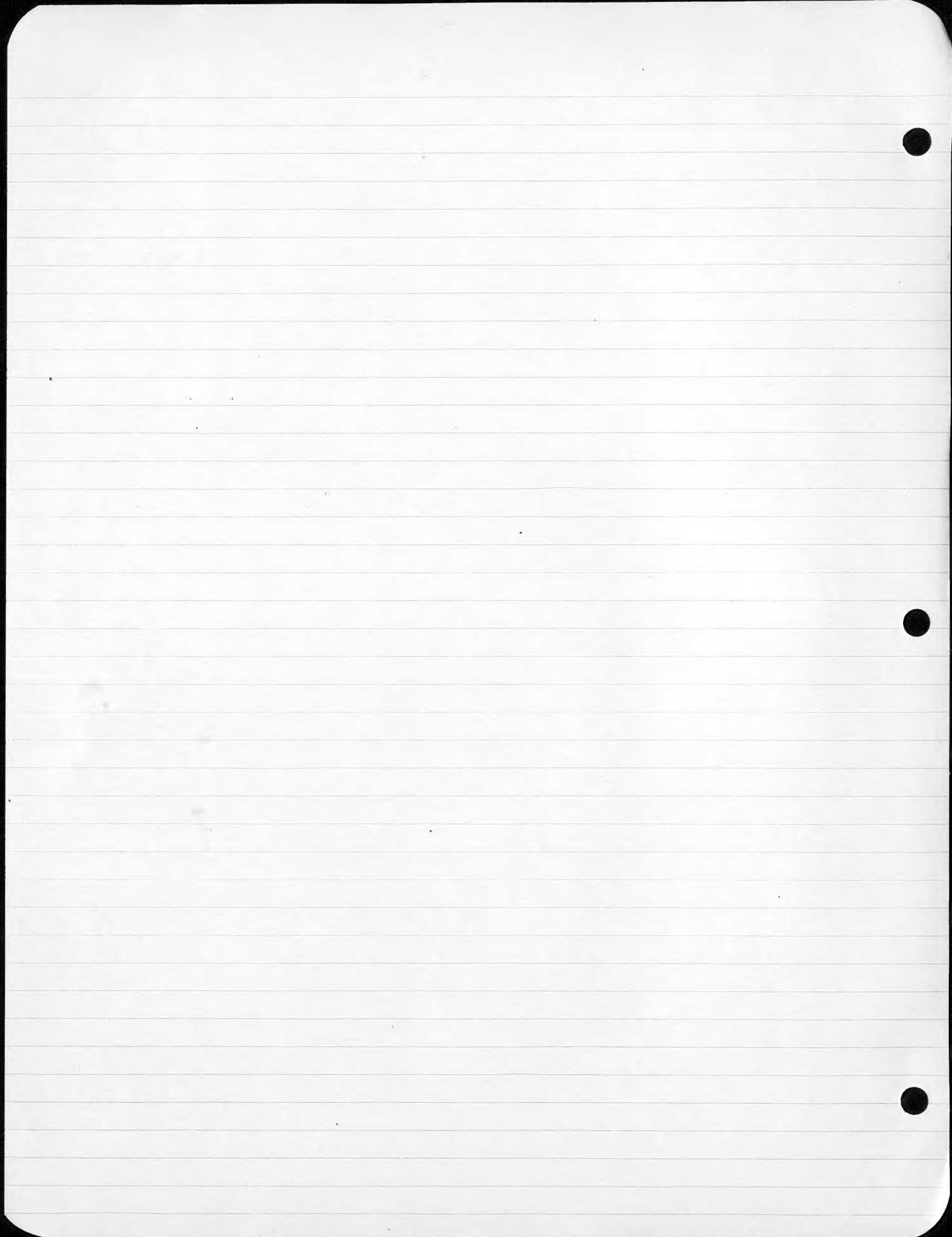
Terrestrial undergrowth

20024. *Dryopteris* Scattered on open banks of stream. 70-80 cm.
 25. Fern. One plant study " " " 110 cm. Leaves arched.
 26. *Dryopteris* Open banks " " "
 28. *Adiantum* Very steep clay " " " 20 cm
 29. *Trichocorys* " study " " " 15-20 cm.
 30. " " " " " Fls. spreading leaves.
 20175. Fern. C. in drain bank. 40-60 cm. Foliage fertile.
 78. *Trichomanes* Very moist rocky creek banks.
 83. Orch. Grouped here & there on grassy banks. 20-30 cm. Small green & cream fls.
 20216. ~~*Pteris*~~ *Pteris* ^{anceps?} O. groups in rocky places. 2-2.5 m. Long sword leaves. 400 m.
 29. *Polypodium* C. in drain bank 400 m. Foliage W orange-yellow.
 33. *Polypodium* *P. macrophyllum* Eng. on seepage wet soil. 115 cm.
 68. *Asplenium* One plant in open steep flood bed 400 m. Large fl. 1.5 m
 69. *Plecozium* A. rocky bed of str. 400 m. 60-100 cm.
 20309. of *Theriacum* Eng. in dry open places 500 m. Fls. white.
 15. Orch. S. on grassy bank ^{400 m} 10-15 cm. Fls. wh. with 2 green spots on lab.
 16. " " " 15-40 cm. Fls. dr. with whitish lips

Climbers

20179. *Pothos* V.C. root-climber to 10 m. Sp. the prob. sp., Spacing dark gr.
 82. *Piper* V.C. enveloping trunks of trees to 10-15 m. Fls. orange.
 20211. *Rhamnus*? Candy cane 25 m. Fls. dr. Fl. umbel, 2-winged.
 17. *Bioscaea* ^{hirsuta} 3 m. Fls. pale green, very fragrant. 400 m.
 22. *Cordia*? Vine 15 m. Fls. ? Fl. purple, fleshy. 400 m
 43. *Piper* Enveloping tree trunks (500 m). 15 m. Fl. shining brown.
 48. " Trampling on v.g. 500 m. 1.5 m. Fl. umbel.
 49. *Piper* C. large candy cane 400 m. To 30 m. Fls. rose purple. Fls. _{umbel.}





Upper Parrot Bk.

Plain forest

Subsidiary trees, cont.

20314. *Davidsonia pruriens*. O. in dryish forest 450 m. 70-18 m x 25 cm. Fl. pink.
Fl. immature. Daint visitant.

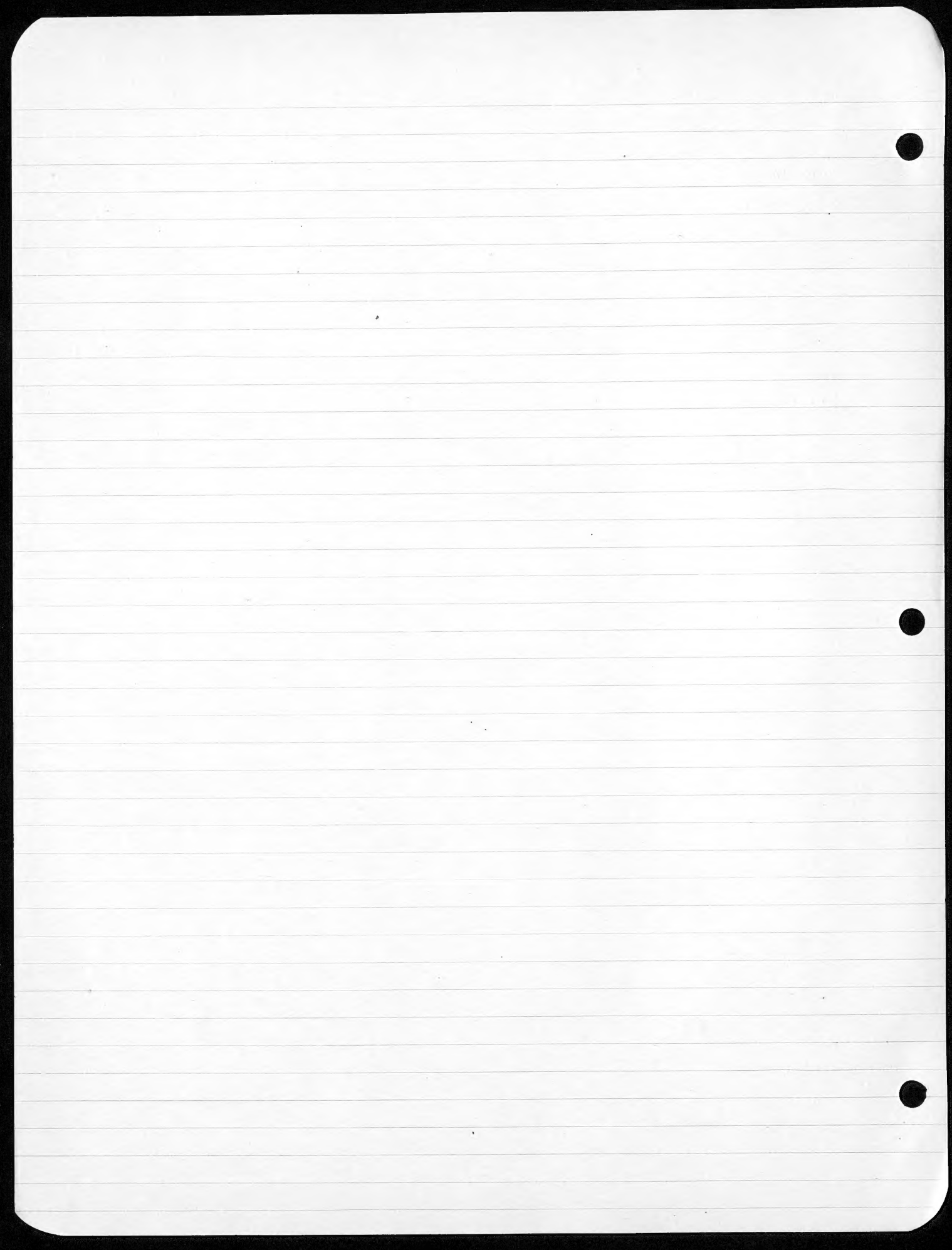
Subsidiary trees cont.

20318. ~~Act.~~ 450 m. 15 m x 20 cm. Fl. ? Fl. to pub., unripe.
Mysticis ferruginea

Moss cont.

20321.

Postle log in P.I. 400 m.



Upper Paraná Fl.

Rain forest regrowth

Trees

20173. *Ficus* C. hololewood tree 6-8 m. Tuberculate gr. neoplactes.

20295. *Byrsonnocrum* ^{flavum} ! O. in old secondary fl. to 25 m x 30-35 m. Fl. yellow

20299. *Rub.* O. 6-8 m. fl. ? fl. orange

20305. *Alphitonia* F. 370 m. To 20 m x 35 m. Fl. greenish.

20. *Melia* O. 16-18 m x 25-30 m. Fl. lavender - fl. ?

Climbers

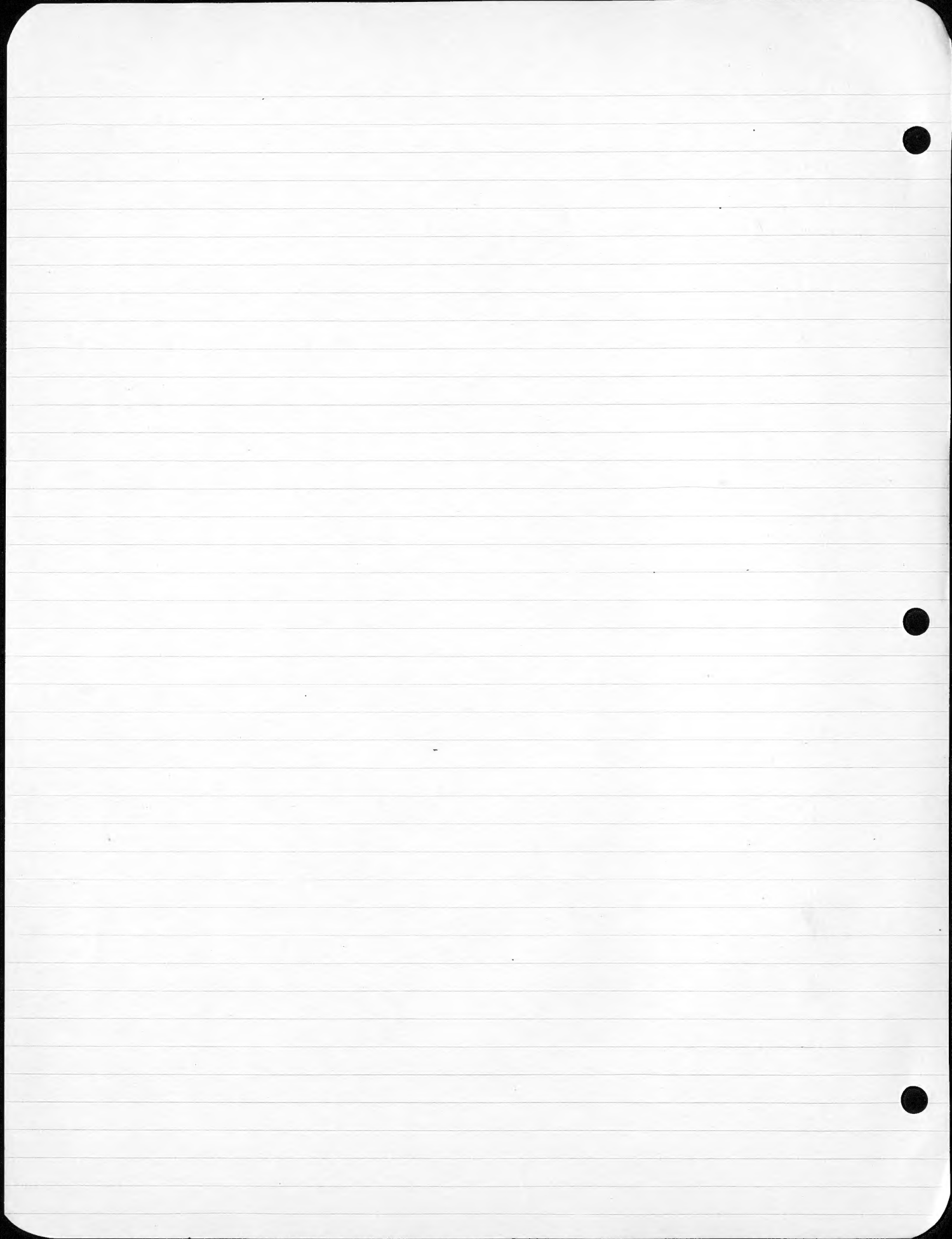
20032. *Lilium*. 3 m. fl. ? fl. orange, fleshy; seeds black.

Shrubs

20258. *Evoumnia* 500 m. alt. 1.5 m. fl. wh.

54 ? " " Same as shrub 2.5 m. fl. yellow.

96. *Eupomatiaceae*. C. tree or shrub 2-5 m. fl. dirty white. fl. ?



Upper Parrot Ok.

Savanna forest 300 m.

Trees

20186. *Syzygium* F. in grasses. 8-10 m x 40 cm. Shiny yellow in fls.
~~20257. *Barringtonia* "Forest oak" 300 m.~~
20262. *Barringtonia* forming an understory in fls. 7-16 m x 30 cm. Thin bark.
75. *Persea falcata* 5 m. Fls. yellow, in great abundance. Fls. ?

Shrubs

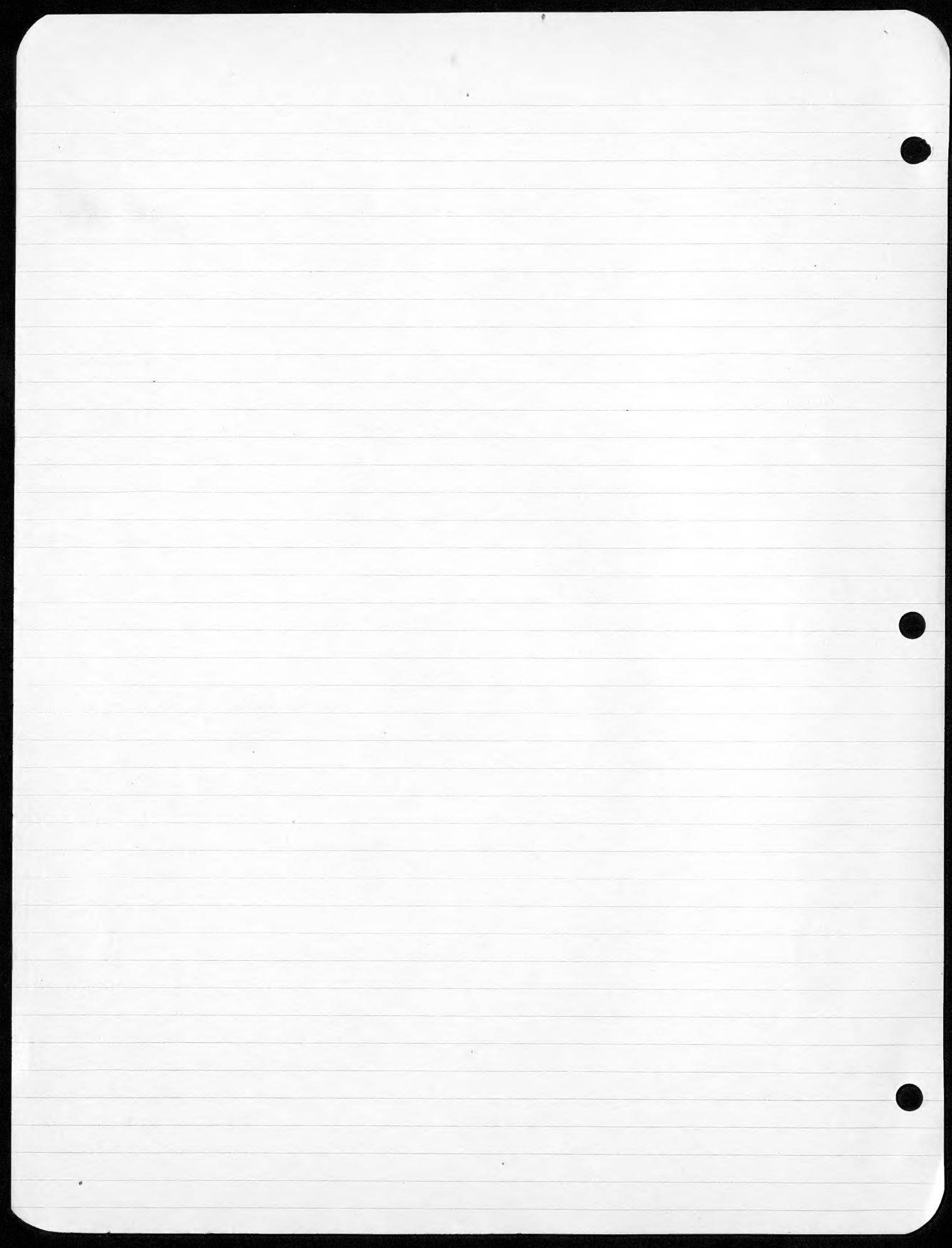
20185. *Melastoma*. C. 1-1.5 m. Fls. purple-pink. Fls.

Herbs & grasses

20294. *Themeda*. "Kangaroo grass". D. grass. 1 m.

Epiphytes

20289. *Dendrobium*. "Pencil orchid". P. chiefly on *Carya* trees. Very frag. wh. fls. just opening.

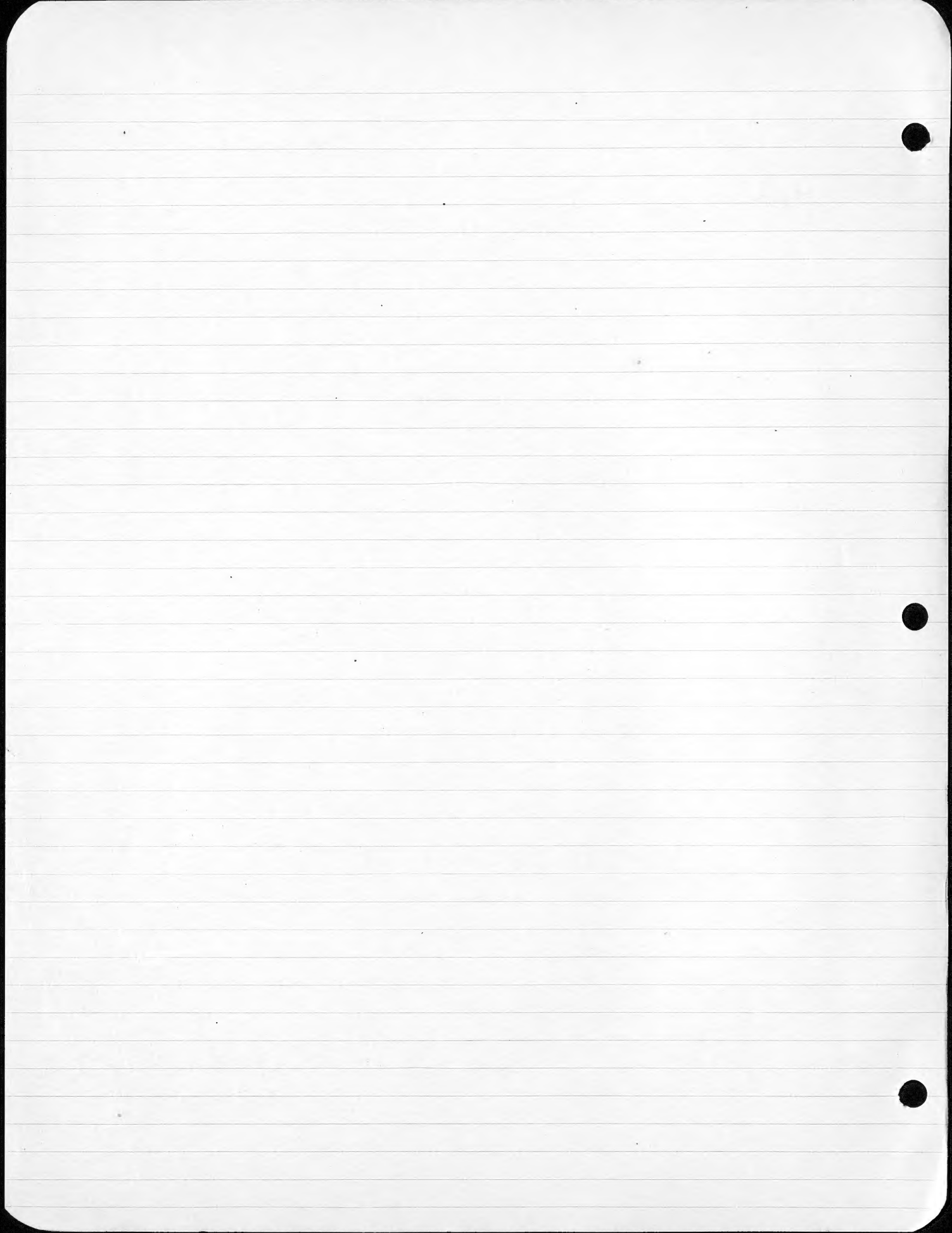


Chi: Finney on west slopes

Savanna forest

Rain forest. 800 m -

Rain forest marginal communities



Mt. Finney an, west slopes.

Savanna forest

Trees

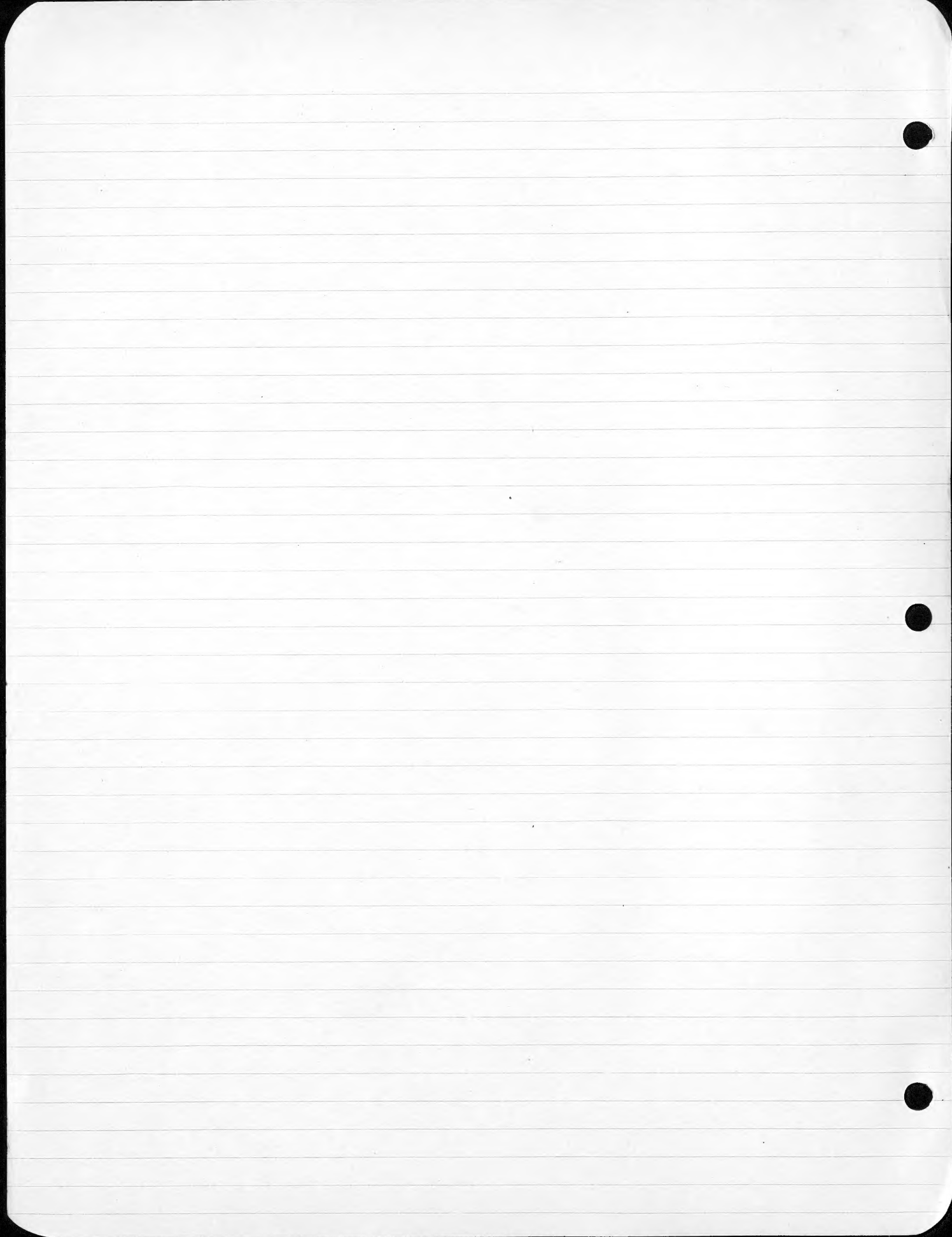
Shrubs

18 shrubs & names

19994. (col.) O. on steep ridge 600 m. 30-60 cm. Fls. lavender; showy.
95. Camp. O. " " " 60-80 cm. Pale yellow fls. (Hedebergium?)
96. Herb. (Coleus?) P. on granite rock faces. 600 m. Fleshy, 40-60 cm. Fls. violet.
20955. Camp. F. 750 m. Fls. wh. changing to lavender in drying.

Epiphytes

19997. Dendrobium ^{Shrub} A. on Casuarina trees, 40-50 cm. Fls. wh. to creamy-yellow.
delicately scented (also top of Mt. Finney). 700-800 m.
99. (col.) Trunk of a Casuarina 800 m. 5 cm. Spikes long gr-wh. fls.



Thi: Finnegun, west slopes.

Savanna forest

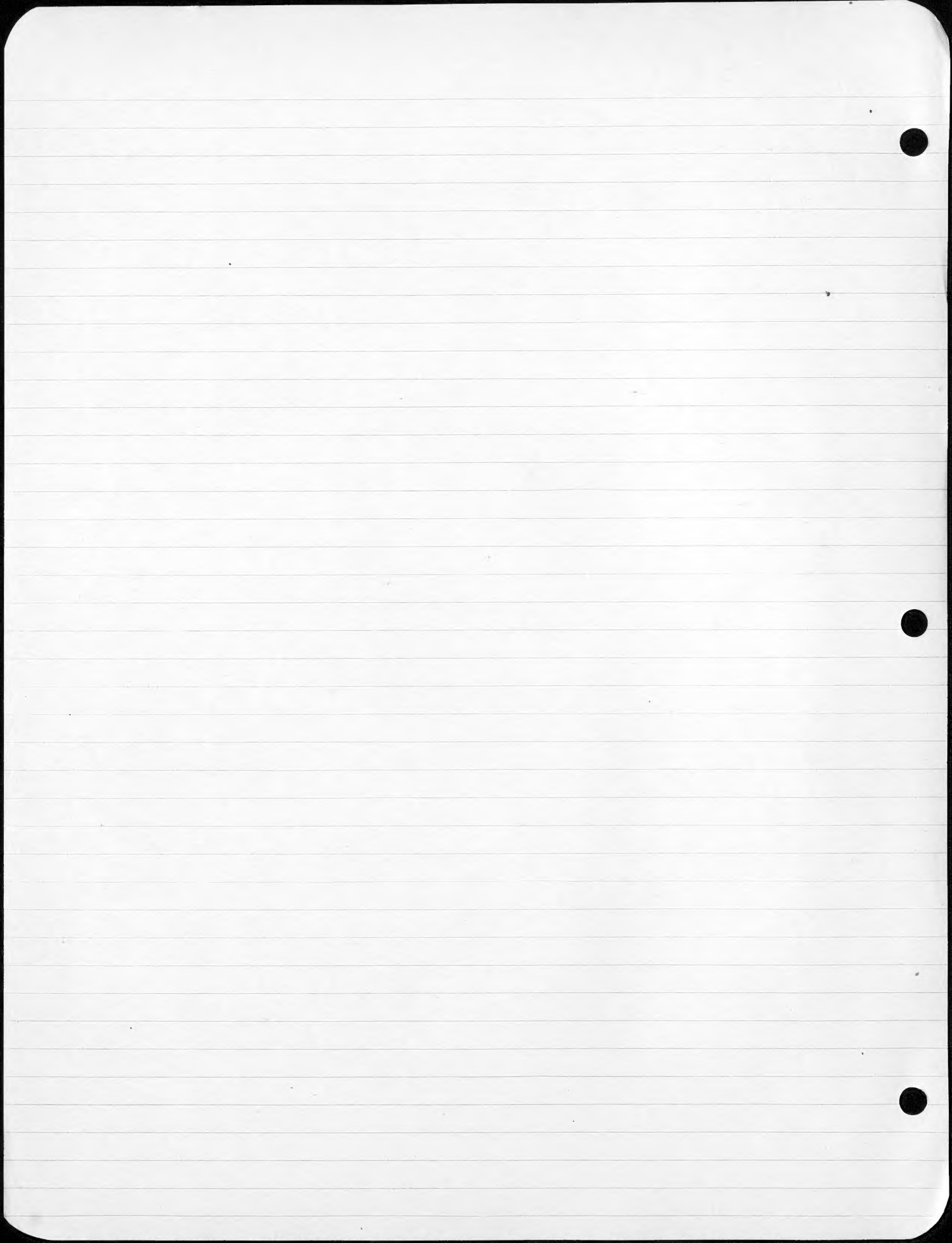
Moss

20507.

On rocks

20360.

On corky bark of Banania tree 800m.



141: Finnegan, west slopes.

Rain forest

Canopy trees

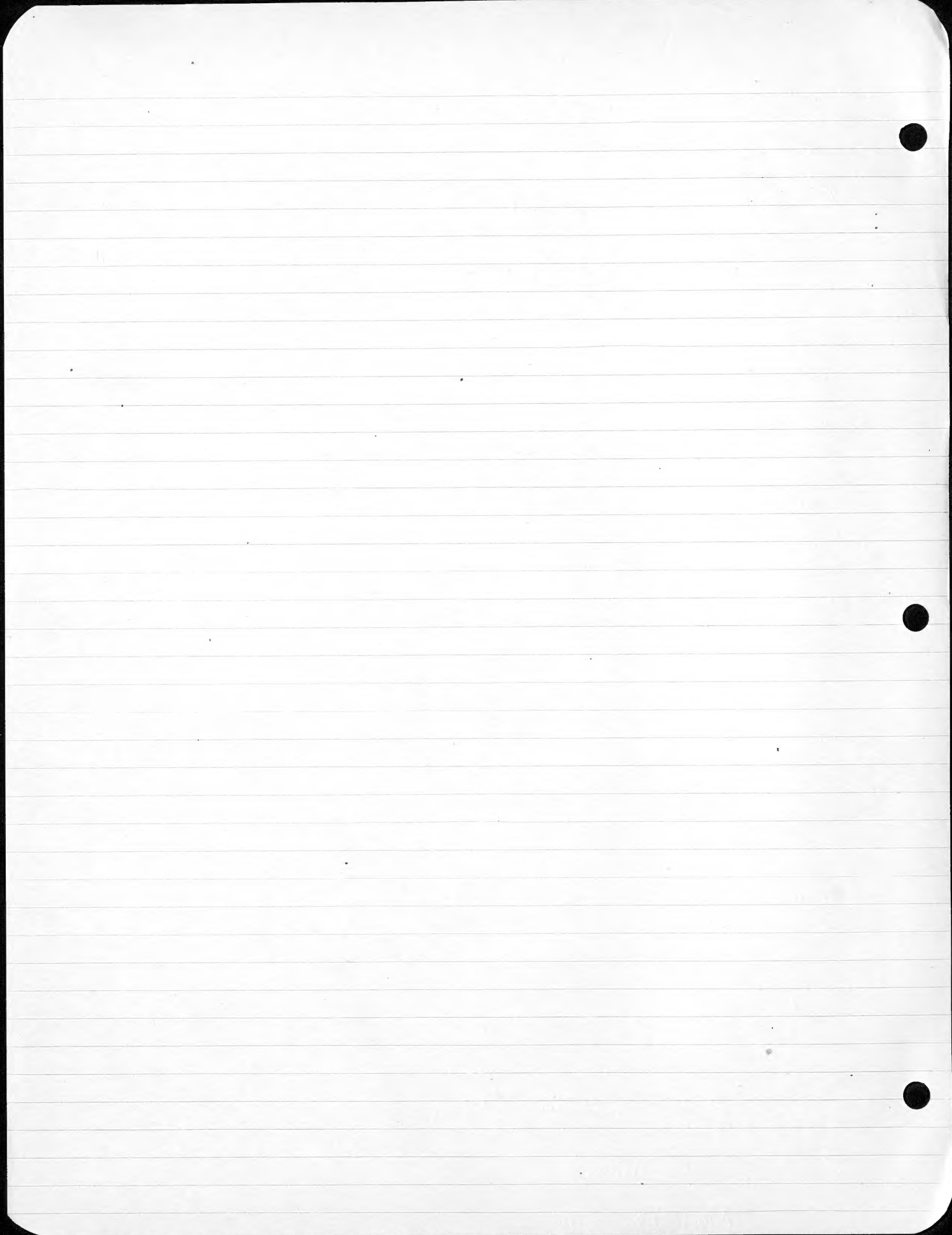
- 20322. *Gliricidia* ^{Bimentoliana} 800m. 20m x 55cm. Fls. ? P. unimp. 6-8 cm. long.
- 415. *Elaeocarpus* ^{ferruginiflorus} 850m. 15m x 40cm. Fls. ? (High in ~~the~~ fls.)

Other trees

- 20554. *Irvingia* ^{baileya} ? (Dec.) ^{australis} O. 15 x 25cm. Fls. wh. Red bearing part of fl: green; fleshy part wh, soft & fleshy.
- 52. *Ficus* Strongly th. 12m. Large paired cream fl.
- 20147. *Leucaena* ^{glaberrima} ~~sp.~~ Opposed open ridge 850m. 6m. Fls. yellow. Fl: cream white.
- 20349. *Polyosma* *rhytidophylla* in substage 850m. Tree 6-8m. Fls. yellow. Fl: green.
- 50. *Heliconia* ^{ferruginiflora} ^{substage} " " 7m. Fls. pr-yellow. Fl: ?

Woody undergrowth

- 20503. ? Shrub 2-3m. Fls. wh. Fl: ?
- 40. *Pithecolobium* C. more open forest 850m. Shrub 1.5-2.5m. Fls. cream.
- 41. *Aral.* S. in v.g. shrub 1.5-2m. Fls. ? Fl: unimp. Panicle purple.
- 42. *Rub.* S. " 850m. Shrub 1.5m. Fls. ? Fl: red, fleshy.
- 43. ? W. char. element ^{850m} Tree or shrub 3-5m. Fls. white. Fl: lowest & bottom.
- 44. ? 850m. Tree 5m. Fls. wh. Fl: ?
- 45. *Alyxia* F. in open part 850m. Shrub 2m. Fls. cream. (also border ^{of} 2500)
- 50. ? C. in opposed open 900m. Tree or shrub 2-3m = 20043.
- 20148. *Linosyris* ^{in Lomocline} One example 850m. 1.5m. Fls. buds only.
- 49. " C. opposed open ridge 850m. 1.5-2m. Fls. yellow. Fl: ?
- 50 " minor " " " 1-1.5m. Fls. yellow. Fl: ?
- 20323. *Samanea* ? 850m. Tree 4m. Fls. buds only. Fl: green.
- Hypophyllum* *halleyana*



Ms. Finneyan, west slopes

Rain forest

Herbaceous undergrowth

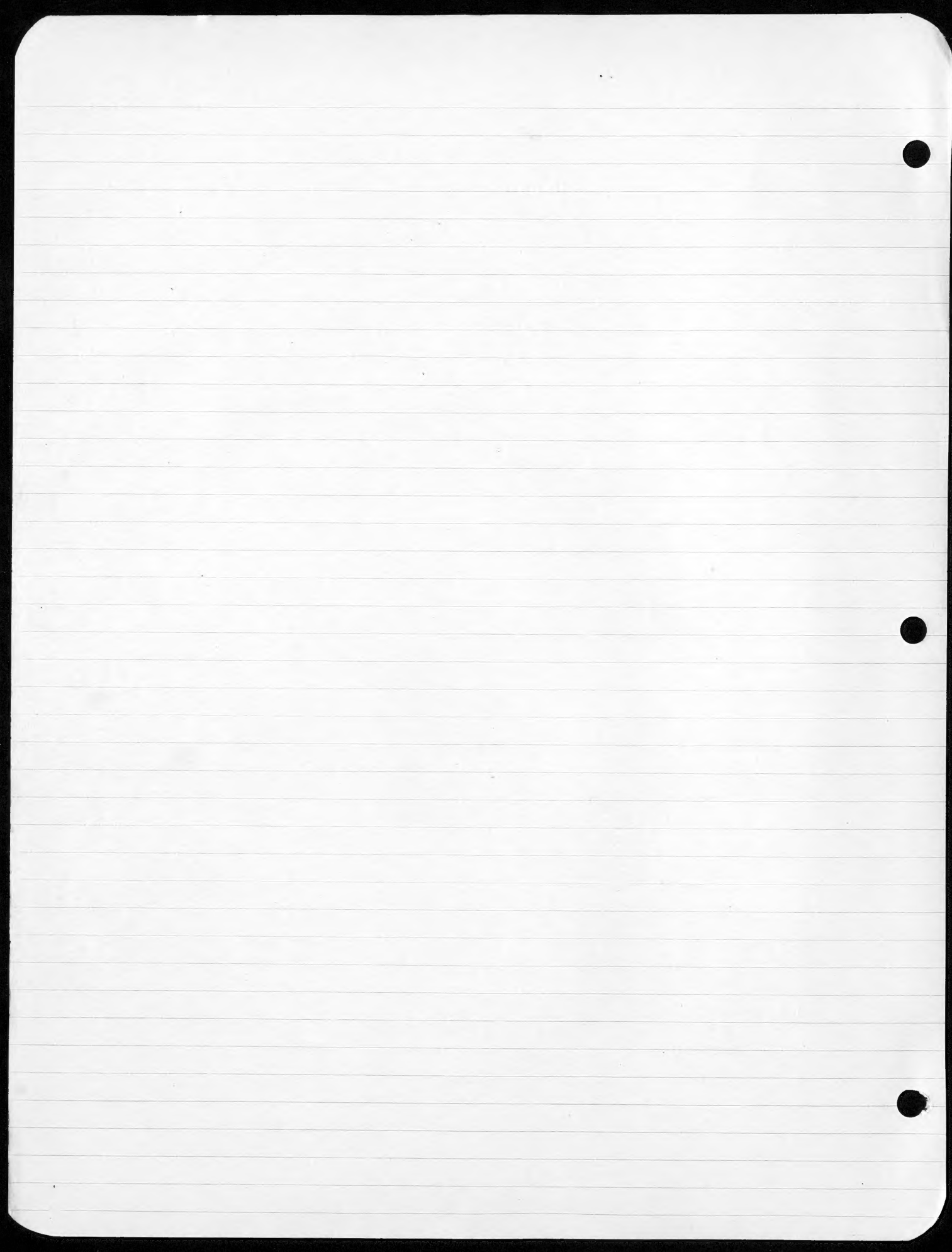
20046. *Helmholtzia* ^{acutifolia} A. in a moist rocky ravine 850m. 70-80cm. Fl. ? Fr: wh, soft & fleshy.
47. *Marattia* ? A. rocky edges of a waterfall. c. 60-150cm.
48. *Trichomanes* A. wet rocky banks of a stream 850m.
51. *Lindsaea* Under granite rocks 850m
- 20324 *Blechnum* Erag. on wet banks of a stream 700m. Tree fern habit; 1.2m.
52. Fern C. locally 820m. Numerous arching spreading leaves, to 1m.

Climbers

20039. *Tecomanthe*. O. in low open forest of a spur ridge 850m. 6-8m.
- ~~20145. *Hygajetes* +~~ Large red fls. ± 8cm long.
20145. *Hygajetes* *Rheiniana*. F. large liana to 16-18m. (850m). Fls. red, lobes white within
46. *Hygajetes*. Scandent shrub 8m. Fls. ? Fr: gr-yellow.

Epiphytes

19998. *Surdobium* One plant on a rock. 25cm. Fls. cream, wh, & purple-bronze.
20000. *Orchid* " low on a tree ^{850m} 4cm. Fls. wh. fls. streaked purple.
06. Fern C. low on trees (& rocks) 850m. Plants narrow simple leaves ± 50cm.
49. " C. low on tree trunks. Pinnatifid, sharply creeping. Seldom fr. 60cm.
53. " Rare " " 850m. Fleshy leaves.
20344. *Polypodium* 850m. Climber. 8m. Fls. yell-wh. streaked & spotted purple.
46. Fern Upper branches 850m. Fleshy simple leaves to 20cm.
47. *Elophoglossum*. Low epiphyte 850m. 70cm.
51. Fern Creeping low epiphyte 850m.



Mt. Finneyan, west slope

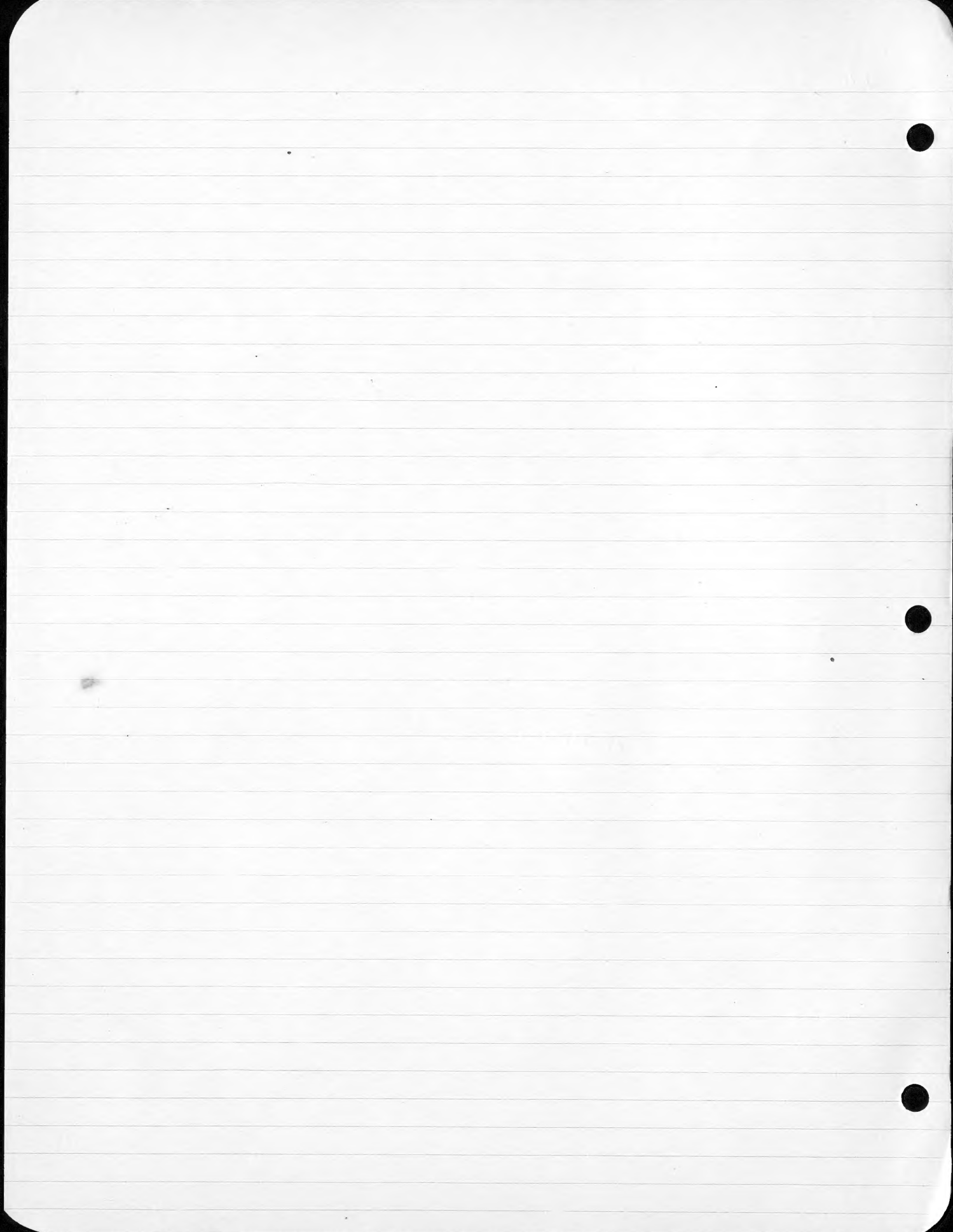
Rain forest

Mosses & hepatics

- | | | | |
|-------|------|-------------------------------------|-------|
| 20055 | Moss | Rolling log in R.F. | 850m. |
| 56 | " | Barreling a rotten log. | " |
| 57 | " | Branches of u.s. tree | " |
| 58 | Hep. | Fuzzy green sp. on branches of u.s. | 850m. |
| 20151 | Moss | Stem of a rolling log. | 850m. |
| 52 | " | " " " | " |
| 53 | " | Living bark of a tree | 800m. |
| 54 | " | Rolling bark. | |

Woody undergrowth com. *Podocarpus*

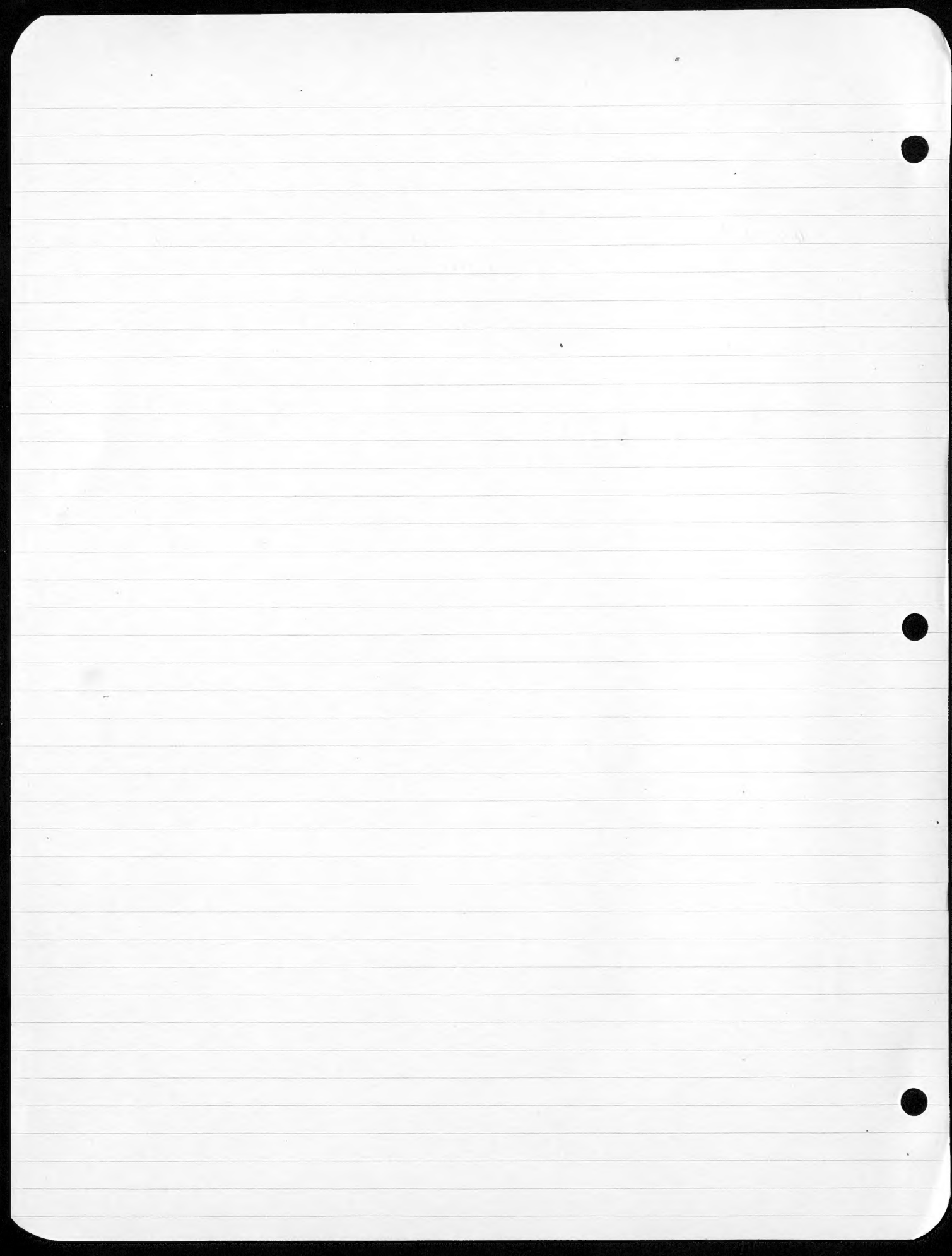
- | | | |
|-------|-----------------|--|
| 20343 | <i>Fragaria</i> | 850m. Tree 3m. Fl. ? Fl. yellow & red. |
| 48 | ? | " Tree 3m. Fl. wh. Fl. ? |
- Mosses *barleya australis**



Mt. Finnegan, west slopes.

Rain forest marginal communities

20001. ? F. tree or shrub 2-4 m. (760 m). Fls. wh. Upright branching habit.
02. *Allyria* Eng. rocky edges. Shrub 2 m. Fl. cream. Fr. (broad based
sp. of *Pellenderia* Ker.).
20353. *Scandol* Forming low ^{± 1 m high} tangled, on grassy edges. Climbing
shrub ~~to 1 m~~. Fl. yellow. 800 m.
27. *Ducosporium*? One example on grassy edge 800 m. Shrub 1.5 m.
Phodanopsis cynifera Fl. pink.



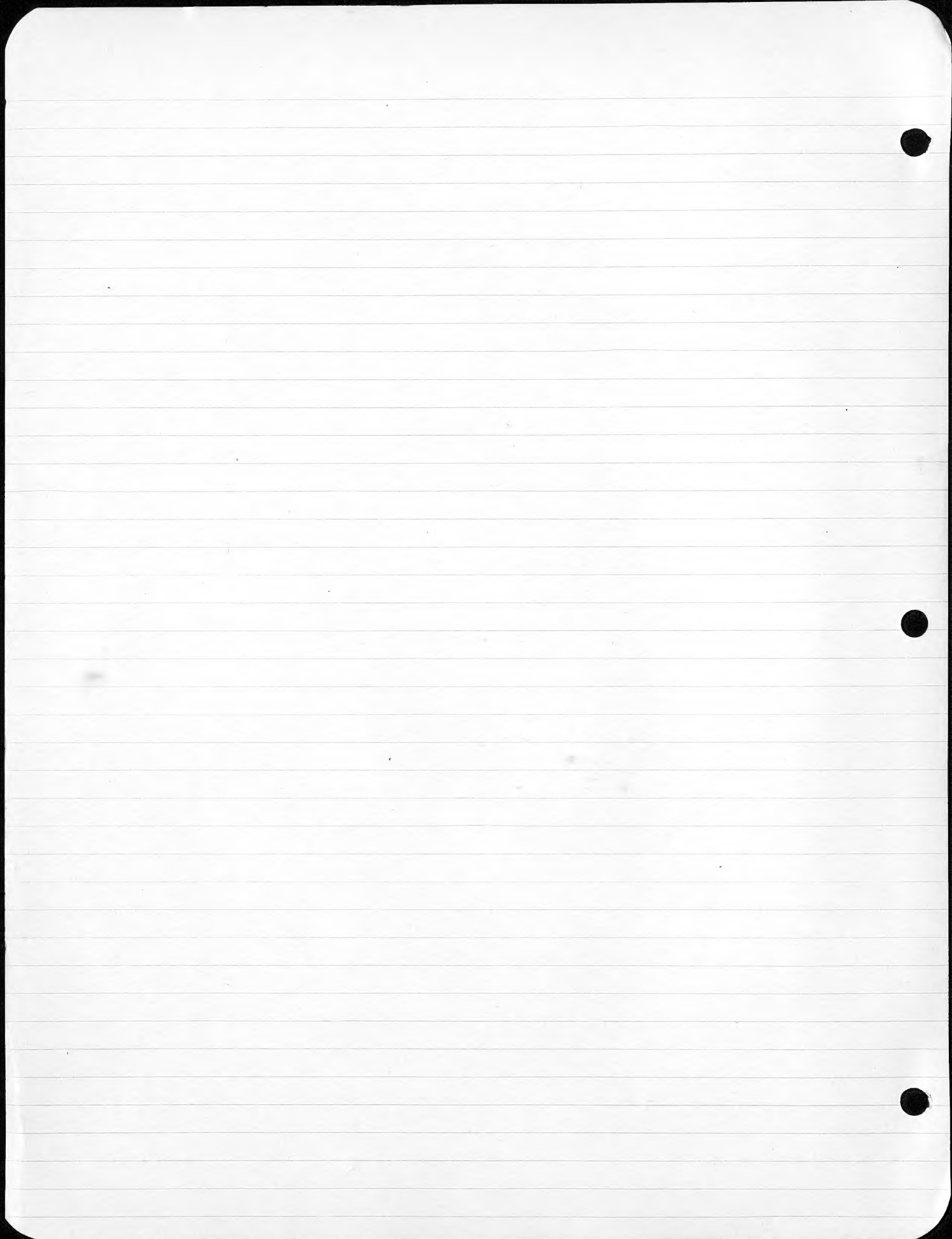
~~Mt. Finneyan~~

Mt. Finneyan

Scrubby high mountain forest 1000 m -

Open rocky area at 1000 m.

Shrubs on summit (1140 m.)



Mt. Ararat

Scrubby high mountain forest

Trees & other dominants / *Rhodomyrtus viricea*

- 20061. *Rhodomyrtus* P. tree or shrub. Fl. buds only. Leaves br. pub. below. (old leaves) ^{red}
- 62. *Sarcocolla* of Maryana F. tree 4-6m. Fl. buds only
- 63. *Malfordia* Kindack tree 6m. Fl. ? Fl: red, aromatic. Leaves fleshy.
- 65. *Lycopodium* ^{mythodes} tree 5m. Fl. ? Fl: yellow, tinged red.
- 20105. *Ulex* V.A. 1000m. tree or shrub 1-3m. Papilionaceous fls.
- 14. *Sarcocolla* aff. *Malfordia* V.A. 1000. tree 4-6m. Fl. buds only.
- 20328. *Balanites* 1060 m. tree 5-6m. Fl. ? Fl: orange-yellow.
- 31. *Brinsleya* V.A. 1060m. tree or shrub 2-5m. Fl. ? (also a shrub in U.S.)

20338. *Trinomeia*. V.A. in ± open rocky places 1060m. Shrub 1.5-2m. Fls. white
Fl: yellowish. Lower branches thick & fleshy.

37. *Thymus*. V.A. in a shrubby rocky opening 1060m. Fl. buds only. Fl: yellow

40. *Rhododendron* *herbaria* V.A. in shrubbery of a rocky opening, 910m. Shrub 40-60cm.
Fl. red. Only 1 plant found in flower on mountain.

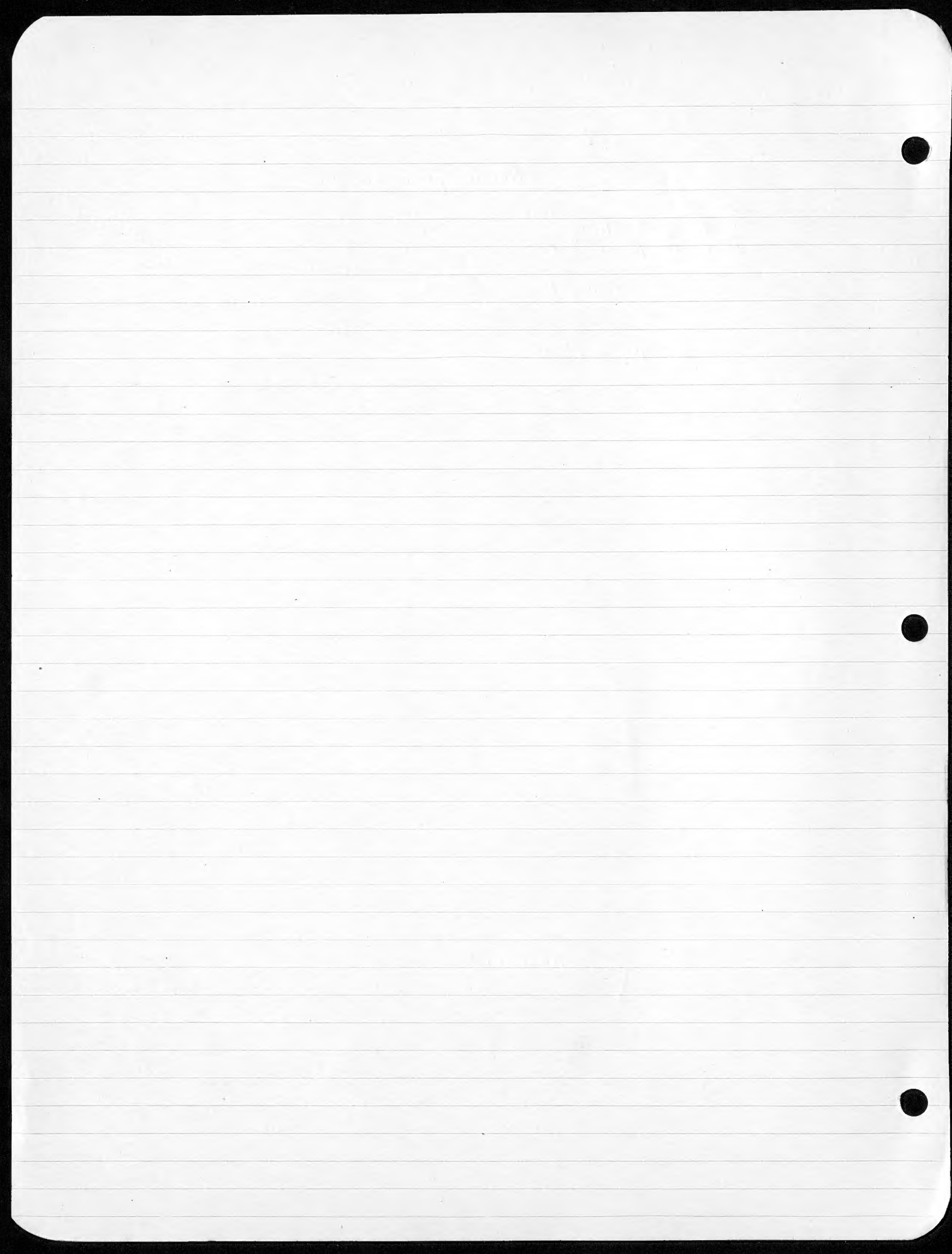
ambalazicus

20068. *Balyptrocalyx* ? V.A. in a moist gully 1040m. 4-6m. Fl. ? Fl: red. Leaves few, 80-110cm

20064. *Gyathia* P. in a moist gully 1040m. 2.5-3m. Few flat spreading leaves 60-90cm.
Lower stem much enlarged by a mass of achenes & often laterally compressed.

66. " V.A. in moist gully 1040m. Leaves flat spreading 80-100cm. 3-4m tall.

69. " O. " 2-2.5m. Many arched & spreading leaves ± 7.5m long.



Mt. Jimenez

Scrubby high mountain forest

Epiphytes & Parasites

20060. *Korthismilla*. Parasitic on a shrub. 5-6 cm. Plant br-green.
70. *Claphoglossum* F. on mossy lower trunks & on rocks 1040 m. Fertile leaves whitish.
71. Fern " " " " 1040 m. Smooth simple leaves 30-50 cm.
- 73 " " " " " " 1050 m. Pinnatifid. Mossy, sterile.
74. *Vittaria*? Branches of trees 1100 m. 2-3.5 cm.
75. Polypod. Mossy trunks & rocks 1100 m. Simple leaflets sp. 0.5 cm.
76. *Hymenoph.* " " " " " " 8-10 cm.
77. Fern. Pinnatifid 3 cm. (1100 m.).
78. Polypod. Trees & rocks 1100 m. Leaflets simple bifid leaves 4-10 cm.
79. *Hymenoph.* A. on mossy trees 1100 m. Leaves curved, very pale green.
- 80 " " " " " " Mossy rocks 1100. Bark gr. wrinkled leaves 6-7 cm.
88. *Trissiplexis*? Stem of a tree fern (*Dicksonia*) 1040 m. 10 cm.
20103. *Psilobolophyllum* A. on dead branches 1000 m. ^{1-2 cm} fl. to yellow, streaked purple-br.
11. Orch. One plant 1000 m. 2.5 cm. fl. cream.
15. *Vittaria*? 1000 m. Sliff recurved leaves 1-3 cm.
20327. Polypod. C. 1060 m. Sliff dimorphous simple leaves at 25 cm.
39. Orch. V.A. 1060 m. 10-15 cm. Cream, very fragrant fls.
41. *Asplenium* A. on rocks & trees 910 m.
42. *Psilobolophyllum*. C. small creeping fl. 910 m. Fr. gr-yellow, stripes purple.

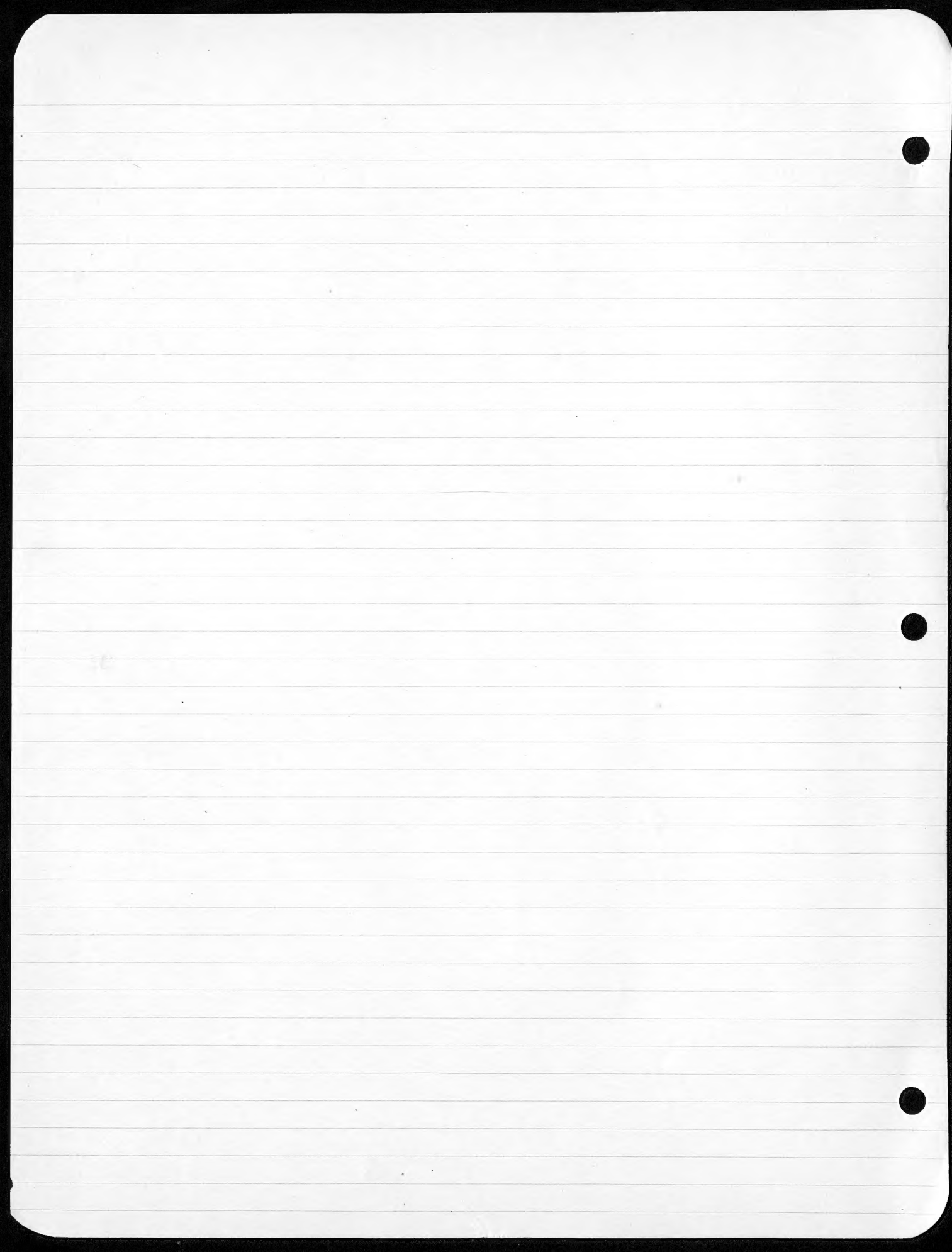
Climbers

Passiflora foetida

20067. *Passiflora*? F. scandent shrub 5 m. (1040 m) fls. wh. fl. ? Fanny smooth leaves.
20101. *Freziera* O. 4-5 m. fls. red, L 7 cm. long.

Undergrowth

20329. Rub. 1060 m. fls. wh. fl. ? Shrub 2 m.
30. " A. 1060 m. Shrub 1-2 m. fl. ?

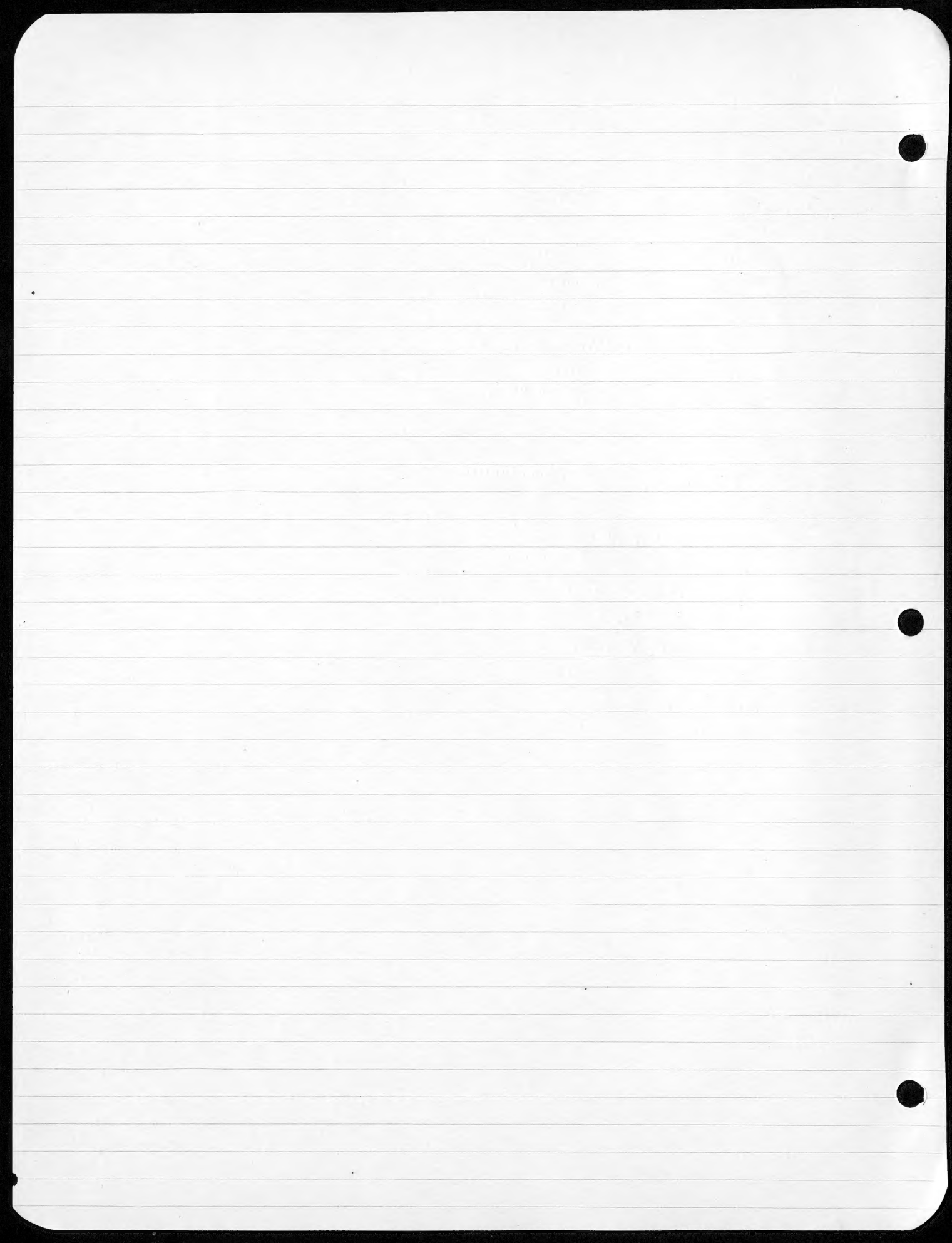


Mt. Finneyan

Scrubby high mountain forest

Mosses

20081. *Rocks on bank of a stream* 1040 m.
82. *Trichosteleum hamatum* ^{hamatum} *covering trunks of trees* "
83. *Gicranetoma* ^{synonym} *trunks of trees & rocks* "
84. *Leucobryum sanctum* ^{sanctum} *on rocks*
85. *Macromitrium scottii* ^{scottii} *dead branchlets of trees* 1100 m.
86. *Leucob. sanctum* *Mt. bank of a stream* 1040 m.
87. *Phlegmarium spiniforme* ^{P. on granite rocks in scrub} 1100 m.
89. *Gicranetoma spiniforme* ^{A. nov.} *on u.s. Delicate fuzzy sp.*
91. *Living branchlets of u.s.* 1100 m.
92. *Living branches of trees* "
93. *Hypopterygium* ^{Kaymanianus} *C. trunks of trees* "
96. *Polliny wood.*
20106. *Campylipus Pharis* ^{Pharis} *Open ground in scrub.* 1000 m.
7. *Macromitrium* ^{femifolium} *on dead branches* "
8. *Eucampylodon Muelleri* ^{A.} *living & dead branchlets* 1000 m.
20332. *Stenopogonium* ^{erythropectus} *tree tops - 1060 m. Yellow stems covered cushions.*
33. *Platomitrium* ^{prichastri} *small dark olive green cushions in tree tops* 1060 m.
34. *Macromitrium dimorphum* *covering dead branches of trees* 1060 m. *Resilient hairs.*
35. *Gicranetoma* ^{aurita - xof. anam} *tops of trees* 1060 m. *Pale yell-gr. small loose cushions.*
36. " " *stems of trees* 1060 m. *Pale green* ¶
56. *Branches of low trees* 910 m.
57. *Tree trunks* "
58. *On dead branchlets* "



Mt. Finneyan.

Open rocky area at 1000 m

20102. *Dendrobium fusciforme* V.A. on exposed granite. 40-50 cm. Fls. cream, fragrant.

04. *Borhya repliniana* F. & M. Principal plant on open rocky area. 15-25 cm. Plant raised on stiff roots & often forming loose cushions. Few plants in flower.

09. *Abelmoschus*. Herb 20-40 cm. Sterile.

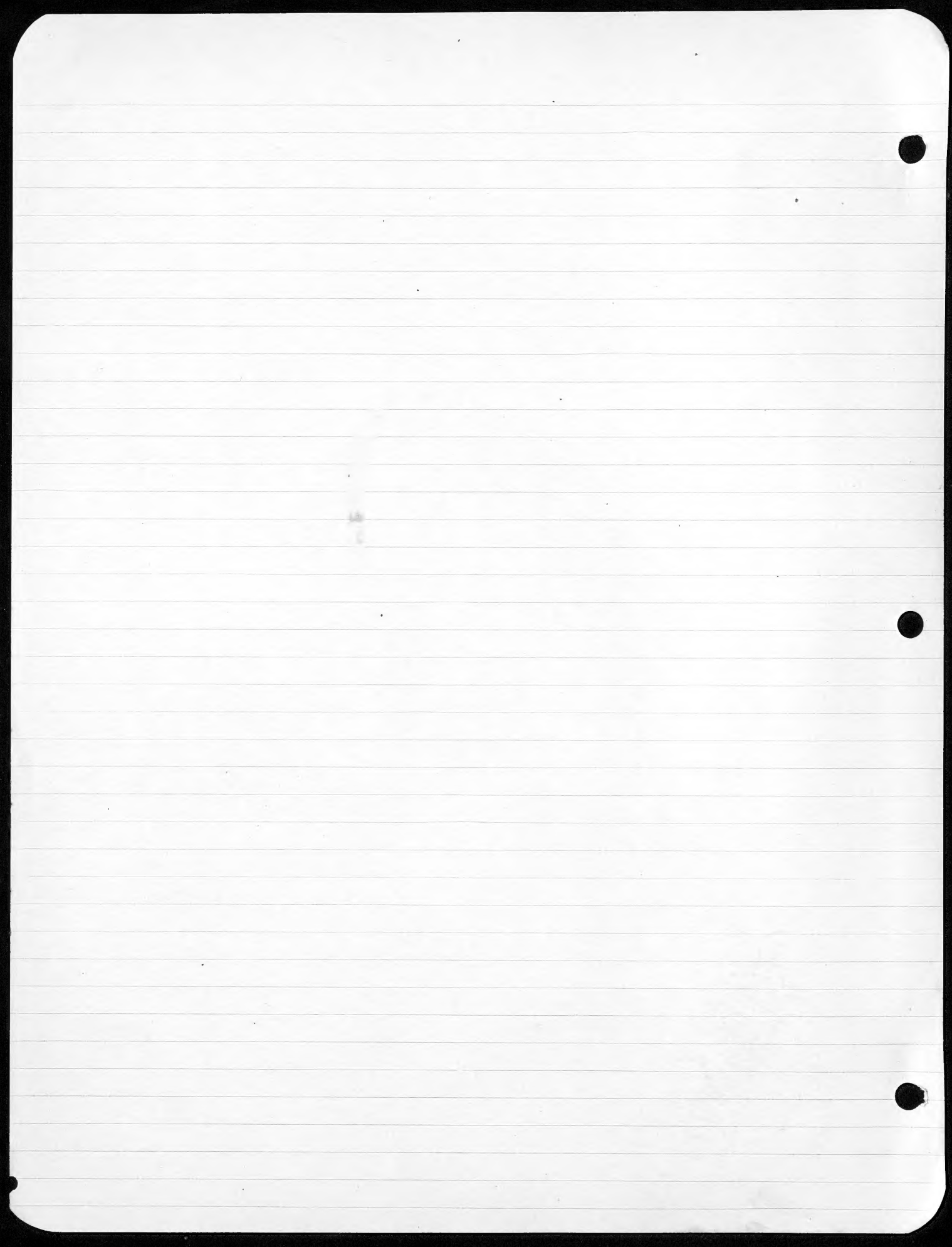
10. Orch. Amongst rocks on open rocky ground. Fls. pink, column green.

12. *Heliconia* ? F. herb 50 cm. Yellow rays less fr. Leaves grey below.

13. *Zizia* F. open rocky situations. Shrub 30-40 cm. Fls. wh.

16. ? C. amongst rocks on open ground. Herb 3-10 cm. Fls. wh.

20325. *Epacris*. C. shrub ± 1 m. Banded wh. fls. (1st opening).





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