

A. S. Hitchcock

USDA

1922 - 1923

U.S. 19251 - 19255

19264 - 19263

(922)

Hanta Columbia

Ecuador 19264

— 20320

37

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Miami, Fla. May 5, 1922

19751 *Panicum adspersum* —
the Florida form — but or ascending —
not prostrate — Hammock land along
slent

Panicum Keyense Mez

19752 *Syntherisma* ^{digitata}
(*Microbachne?*) looks like the
Philippine form.

Wet in testing grounds
aspect of *S. sanguinalis*, but spikes
seem more slender than *S. pedicel*
smaller

19753 *Sporobolus berterianus*
looks like *S. indica*
Common in open ground, seems
to be native, lower branches slender
distal ascending.

19754 *Tripsacum floridanum* ✓
Open ground near residential

19755 *Spartina bakeri*
Large bunches 5 ft - trunks
moist soil Chapman Field
Cutter

19756 *Panicum tenuicorne* ✓
ditto

1923
19757 *Andropogon squarrosus* ✓
Open sandy ground Chapman
Field - Cutter

19758 *Andropogon longiberbis*
ditto. Sacs not seen
at Chapman Field.

May 7
19759 *Panicum ~~capillare~~ ^{longiberbis}* ✓
Pravni near Lake ~~Chapman~~
discarded

19760 *Felmechloa crissalis* ✓
moist soil in *Proserpin*
near Lake Okechobee (N.E. side)

May 8

19761 *Echinoclloa walleri*
old lake bed - Moore Haven
Large mounds - annual - 2-3 ft
insect shroats like *Panicum bartonense*
Rich humus moist

19762 *Clitoria gayana* ✓
naturalized around
Moore Haven, especially
along roadside

1923
19763 *Panicum barlowii* ✓
old lake bed in rich humus
moist. Moore Haven

May 9 - Between Ft. Myers ^{Florida}

19764 *Spartina bakeri* ✓
Large mounds 5 ft diam. Sandy
soil between Naples and Royal Palm
Beach

19765 *Panicum virgatum jubense* ✓
ditto - sandy soil along ditch

19766 Sporobolus verticillatus ✓
Road in sandy melon field
near Naples

19767 Aristida stricta ✓
Sandy ground - flatwoods
in flower 10 miles north of Naples

19768 Panicum lancearium
Sandy flatwoods - ditto

19769 Panicum chamaelonche
ditto - hemispherical bunch



19770 Panicum hemistemon
ditch along road - ditto

19771 Echinochloa crus-galli
margin of ditch - ditto
panicle very loose - erect, branches
slender distinct

19772

Panicum rugosa
ditto

19773

Panicum newguineum ✓
ditto - edge of ditch

19774

Panicum umbrosum?
ditto - ditto
P. calvulosum

19775

Panicum (concolor?)
along ditch - ditto
P. dichotomiflorum

Mares May 9

19776

Panicum adspersum (fl. form)
shell mound at Coxambas, erect
from a caudex or ascending base
P. Keyense Mez

19777

Cymbopogon *sp. n. var. n.* ✓
ditto

19778

Sporobolus dominicensis ✓
ditto

19779

Culcinis petraea
ditto

19780

Cuscuta pauciflora
ditto

19781

Paspalum (setaceum)
ditto
Paspalum epile

19782

Panicum neglectum ✓
ditto

May 10 - ~~St. John's Island~~ near Caymanes

19783

Syntherisma digitata
Sandy field

19784 Paspalum (Setaria group)
Sandy field
Paspalum spile

19787 Sporobolus virginicus
Sandy soil track - Marco

May 11
19785 Sporobolus - bakeri
Large bunch, sandy soil Marco

19788 Inamniopsis villosa
Sandy pine woods between Marco
& Naples

19786 Paspalum capillare
Between Marco & Naples
Sandy soil

Plant Station
May 12, 1922 Bushville Fla
19789 Bambusa tulda
Photo - Blue bamboo. Much same as
blue bamboo of China. Young culms
glabrous - 50 ft tall
Clump near office to north
Bambusa

19790 *Phyllostachys castillonis*
 6 ft. culm yellow - flat with green
 corner of yard (at house) NW corner
Phyllostachys castillonis
 See plot 19420 also

19791 *Guadua angustifolia*
 same locality - spring garden
 dark purple - 15 ft.
 2 Photo
Guadua angustifolia

19792 *Bambusa tulda*
 stem green old yellowish green - 60 ft
 north side of bamboo storage shed
 3 Photo
Bambusa tulda
Bambusa tulda

19793 *Phyllostachys quiliboi*
~~*Phyllostachys lianulobusoides*~~
 Large area just south of bamboo
 house - culm green to yellowish
 green, 20 ft. [The large culm to the south - state
 bamboo - smaller but similar to
P. quiliboi]
 7 Photo
 Photo 5 new of grass
 and yellow, leaf with purple
 areas below nodes

19794 *Sasa tessellata*
 Plot II - 6 Photo

		N				
5	4	3	2	1		
11	9	8	7	6		
15	14	13	12	11	E	
20	18	15	17	16		
25	24	23	22	21		

23, 24, 25 are
 22 = *P. quiliboi*
 21 = *P. castillonis*
 16 = *P. quiliboi* also 17 + 18
 15 = *P. quiliboi*

19795 *Chloris gayana*
 Spontaneous all over the ground

19796

Arundinaria simoni

Arundinaria simoni

variegated form - variegata
found especially on old culms

Plot 1

Plot 12

Arundinaria simoni

19797

Bambusa pygmaea

Bambusa pygmaea ✓

Plot 1. Some in on Plot 2 & 6
Less than 1 foot

19798

Phyllostachys sulphurea

Phyllostachys sulphurea

2 plots - 8 ft. old culms bright
yellow, new culms green

Plot 4

Phyllostachys sulphurea

19799

Phyllostachys bambusoides

Arundinaria

Plot 8. Stake is no. 38916

Bambos

19800

Bambusa

Bambusa or *Arundinaria*

Plot 15. 3 plots right hand dump
young shoots hybrid.

Bambos

19801

Bambusa tulda

Bambusa

Plot 10. 3 plots left hand plant
young shoots smooth. Culms on
southern side yellow, on north green.
Plot 5 same to in same place

Bambos

19802

Oxytenanthera abyssinica
Oxytenanthera abyssinica

Plot 20

Oxytenanthera abyssinica

May 18 - Exp 912 - Brooklands

19803

Pennisetum

napier grass from plot

Plot 20

Pennisetum purpureum

19804

Sporobolus indicus

Row, west end, in plots

Plot 20

Common with *Pennisetum* (89519)

South Africa - Johannesburg

1923

19805

Sporobolus pyramidalis

Row, west end, in plots

Shrub, *Palpua longo* (50037)

Bambos vulgaris

19806

Thouarsii

21349 - Bamboos *Thouarsii*

Bambusa Thouarsii

Phyllostachys bambusoides

19807

Phyl (quilwa)

Plant like bamboo - leaf base

Seems to be a small form of *P.*

quilwa - spec of young & old leaves

218261 sps in

Phyllostachys quilwa

19808 *Bambusa tulda*
Bambusa (blue bamboo?)

Same run as *Lygodium* - west side
mixed with *Phyllanthus*, *Ardisia*
etc - *Bambusa*?
Bambusa

May 14 - Gainesville, FL

19809 *Bambusa tulda*
Cult as a border plant on
unw. grounds

19810 *Bambusa tulda*
Plots - *Lygodium*

19811 *Bambusa nana*
Bambusa nana

Cult in city and at
Exp. Sta. - as much as 15 ft.
Bambusa nana

19812 *Bambusa tulda*
Bambusa

Taller than *B. nana* - as much
as 30 ft. - often variegated -
close clumps - see rhizomes
Bark very long - Cult in city
at Exp. Sta.

19813 *Bambusa tulda*
Bambusa

Probably same as 19812
Keep - much like blue bamboo
3 clumps Cultivated in city
Bambusa

19814 *Erigeron corymbosus*
Cult. Exp. plots

19815 *Panicum serratum*
Exp. plots
Brachiaria serrata

19816 *Pennisetum corymbosum*
Cult. Exp. plots

19817 "*Cenchrus biflorus*"
Cult. Exp. plots - looks like
19616
Pennisetum corymbosum

19818 *Cymbopogon*?
"Cymbopogon sp." Nees called
it, A 5H 3
Cult. Exp. plots
Cymbopogon hirtus

19819 *Pennisetum purpureum*
Cult. Exp. plots

19820 *Chrysopsis Chastock*
low area
cut off by rd. - stony
bush-like.

19821 "*Chrysopsis montana*"
Exp plots
Rhaphis serrulata

19822 ~~*Chrysopsis montana*~~
"*Chrysopsis monticola*"
Exp plots
Rhaphis montana

19823 "*Andropogon amabilis*"
Exp plots
Andr. amabilis

19824 "*Panicum sp*"
Exp plots

19825 *Bambusa vulgaris*
Golden cucumber *aureo-variegata*
Exp grounds.
This seems to be a golden
variety of the "Golden Cucumber"
Bambusa vulgaris
var. *aureo-variegata*

Cephalostachyum pergracile!
19826 *Cephalostachyum*

pergracile? ✓
up mounds. 6-8 ft
1 inch thick
this is no SPDS 21236

Bambusa arundinacea
19827 *Bambusa arundinacea?*

Spiny - zig zag branches
up mounds by upper side
Bambusa arundinacea

Cephalostachyum pergracile
19828

Cult in City = 19826?
Cephalostachyum?

Savannah Ga. May 15
Phyllostachys bambusoides
19829 *Phyllostachys*

On Plant Prep ground. 'Bambusa
grove' stem as much as 5 ft
diam, green - the outer, in green,
yellow - 50 ft high or more
Phyllostachys grisea

Bambusa nana
19830 *Bambusa*

In Park - long row - 10-15 ft, culm
as big as thumb / 1/2 inch thick
larger form of *Bambusa* at Savannah
Bambusa

Avery Island, La. - Mr. McIlhenny's Place
June 21, 1923

19831
Eplismenus setaria
Shady sandy soil under live
oak.

19832

Phyllostachys nigra

Brought by Mr McIlhenny - says older parts were black

19833

Phyllostachys bambusoides sulphurea

Mr McIlhenny did not know the species. Looks as if it might be *P. sulphurea*

19834

Uxarpes
On lawn. Blades darker green and more wrinkly than *A. com-*
pans. Long runners.

1923

19835

Uxarpes compressa
Lawn - same place as 19834
Lighter green, narrower blades

19836

Zizaniopsis miliacea
Border of pond - Mr McI calls it
it Fresh water saw grass

19837

*Miscanthus sinensis
ferrugineus*
Cult on lawn

19838 *Miscanthus sinensis*
quellernus
Cut on lawn

19839 *Phyllostachys mitis*
Ph. puberula
A grove - culm $1\frac{1}{2}$ in diam.
Young culms, newly present
shoots edible.

19840 *Phyllostachys nigra*
Ph. puberula
Probably same as *P. quilibi*
Timber bamboo - a grove
Culms 1-2 inches diam.

1923
19841 *Phyllostachys nigra*
P. herveyana
Culm gray-glaucous, 1-2 in D.

19842 *Panicum fasciculatum*
Weed

19843 *Bambusa aurea-striata*
B. aurea-striata
Culms green with yellow-green
stripes
Looks like a variegated variety
of *B. nana*

19844 *Phyllostachys mitis*
B. pubescens

19845 *Phyllostachys henryi*
P. henryi
Small plants just set out

19846 *Panicum rugosum*
near river - called Paille-fine
good forage

1923
19847 *Phyllostachys bambusoides aurea*
P. aurea
In flower

19848 *Phyllostachys bambusoides aurea*
P. aurea
Nodes crowded below
Culm yellow

19849 *Bambos nana*
B. verticillata

Bambusa nana

19850 *B. alphonse* - Kani

Bambusa tulda

19851 *B. sp.*

Large clump - can green
1-1 1/2 inches thick. Long
internodes

Phyllostachys mitis heterocycla

19852

P. heterocycla
Lower nodes covered
and sustained on all
sides



Dendrocalamus strictus

19853 *Dendrocalamus strictus*

Phyllostachys bambusoides aurea

19854 *P. aurea*

Dendrocalamus

19855

Dendrocalamus sp.
Mr McIlhenny did not know
the sp.

19856 *Arundinaria japonica*

Mr McSherry called this
A. montana, I think it
is A. japonica

19857 *Bambusa tulda*
B. argentea

19858 *Bambusa nana*
So called by Mr McSherry
Larger than B. disticha

19859 *Bambusa aureo-striata*
B. aureo-striata

19860 *Bambusa nana*
B. verticillata

19861 *Viodeca*
Open grassy place

19862 *Eragrostis*
moist open ground

19863 *Eragrostis*
ditto

19864 *Paspalum conjugatum*
Common in grassland

Bambusa tulda
19865 *Bambusa tulda*
Large clump - 25 ft high - young
leaves glaucous - brown lustrous
below nodes - canes sometimes
striped with white - young shoots
with brownish white green striped
sheaths (faded 2 old ~~shoot~~ shoots
in previous) " "

Bambusa nana
19866 *Bambusa nana*
a young branch with large leaves
from same plant as next

Bambusa nana
19867 *Bambusa nana*

19868

Phyllotachya nigra
P. ulmifolia

~~end 1922~~

19869

Paspalum puberulum HBK

all these were collected along
a road from the Mountain Hotel
up the mountain to the source

19870

Cenchrus meridensis Spr

1923

1923

19871

Chloris radiata (L.) Sw

19872

Chloris ciliata Sw

19873

Panicum fasciculatum
Sw

1923

19874

Panicum fasciculatum Sw

19875

Valisneria spiralis (L) Chase

19876

Echinochloa colonum (L) Link

19877

Cenchrus ciliaris Sw

19878

Sporobolus indicus
(L) R Br

19879

Chloris paniculata Sw
~~Chloris paniculata~~

19880 *Panicum fasciculatum* Sw

19881 *Bambusa americana* (L.) Scribn
harrolegia

19882 *Panicum adpersum* Trin

19883 *Syntherisma sanguinale*
(L.) Dulac

19884 *Panicum fasciculatum* Sw

19885 *Paspalum caespitosum* L.
(L.) Pilger
On rocks, culms spreading

16

19886

Paspalum sanguetia c

19887

Chaetochloa gemmeolata
(Lam.) MTC

19888

Laninae ducuricula
(L.) Hitchc

19889

Chloris paragnensis ^{Steud}

19890

Paspalum

~~out Haiti~~

Canal Zone

Melou, E Z. June 4, 1923

Grassy hill near Hospices.

19891

Axonopus (Lam.) Presl

Bluish narrow slender shrubby

Axonopus leptostachys

19892 *Axonopus compressus*
Axonopus (compressus)
 spikelets smaller

19893 *Axonopus compressus*
Axonopus (compressus)
 crinkly blades - in common
 rural - dark green

Buenaventura
 Buenaventura, Colombia, June 13, 1923

19894 ~~Paspalum~~ *Axonopus*

Axonopus stragalis

All collected along Ry in the city
 and toward the outskirts, perhaps
 in all, 1 mile from dock.
 (within)

Syntherisma sanguinalis (L) Dulac
 19895 *Syntherisma sanguinalis*

19896 *Chloris radiata*
Chloris radiata (L) Sw

Paspalum conjugatum
 19897 *Paspalum conjugatum*
 Berg

Panicum laxum

19898

Panicum laxum Sw*Paspalum plicatulum*

19899

Paspalum plicatulum Michx.*Eragrostis acutiflora*

19900

Eragrostis acutiflora

Common in most places

*Ischaemum latifolium**Ischaemum*

19901

Ischaemum latifolium (Sw)
Kth*Andropogon brevifolius*

19902

Andropogon brevifolius
Sw*Andropogon bicornis*

19903

Andropogon bicornis L

Paspalum notatum

19904 *Paspalum notatum* H

Homolepis aturensis

19905 *Homolepis aturensis* (N134)
Chase

Axonopus scoparius

19906 *Axonopus*

Paspalum pumilum pumilum Nees

19907 *Paspalum* (~~*notatum*~~)
Open ground - flat meads,

Paspalum distichum

19908 *Pasp. distichum*

Paspalum pilosum

19909 *Paspal* (~~*notatum*~~)

19910 *Eriochloa ramosa*
Eriochloa

19911 *Axonopus scoparius*
Axonopus scoparius (H)

19912 *Axonopus scoparius*
Axonopus

Paspalum virgatum
19913 *Pasp. virgatum* L

~~Guayaquil - Ecuador~~
Guayaquil - Ecuador
June 18, 1923

③ *Panicum barbinode*
— 19914 *Panicum*
Tidal marsh along river
water front of city. Grass
weeping at base. Has much
the aspect of the mud.

Eriochloa polystachya
— 19915 *Eriochloa*
same locality as 19914
Is this the same *E. polystachya*?
nodes pubescent!

3

19916

Panicum geminatum
Panicum geminatum
Same locality as 19914

3

19917

June 19 *Chloris radiata*
Chloris (radiata)
Low moist ground

3

19918

Convolvulus
Low moist ground near river
grasses, 4' tall, oval
or diamond at base fls pink.

3

19919

Lytrosum
Low ground - a weed in
pasture 2 ft much branched
fls pink

3

19920

Acanthaceae
ditto 2 ft

3

19921

Melochia
ditto 4-6 round like branches
fls yellow

3
19922 Malvaceae
ditto 3 ft fls yellow-orange

3
19923 Labiateae
ditto 3-6 ft fls white

3
19924 Petrorhizon
ditto 1-2 ft fls lilac
annual

3# 19925 Hyptis
ditto 2-4 ft fls white
Roots wets produced

3 19926 Arum
Swampy ground near river, fragrant,
fls white. 2-3 feet. - Bulbs & rhizomes

3 19927 Mimosaceae
On rocky cliff - shrubby - 6 to 10 ft
fls white

³
19928 *Bignoniaceae*
Large shrub - on wet cliff
fls yellow. leaves ~~entire~~ simple
or with 1 or 2 leaflets at base

³
19929 *Malvaceae*
Rocky hillside. Shrub 8-12 ft
fls pale yellow - viscid

³
19930 *Convolvulaceae*
Rocky hillside. Stout vine
climber, over bushes - masses
of bright pink fls

³
19931 *Compositae*
Rocky hillside - 3 ft.

³
19932 *Heliotropiaceae*
Rocky hillside - 4-6 ft. fls
white

³
19933 *Plumbago*
Rocky hillside - climber
vine 20-30 ft. fls white

1923
³ 19934 *Sillac?*
Open ground - weed - 3 ft
fls white

³ 19935 *Malvace*
Open ground - a weed
3-4 ft, fls orange-yellow

³ 19936 *Convolvulus*
Climbing on shrubs - fls purple-blue

³ 19937 *Morantia*
Climbing on shrubs, fls white
(bracts red)

³ 19938 *Bignonia*
Tree 20-30 ft. Rocky hillside.
fls lemon yellow

June 20 Hill across
~~Rio Esmeraldas~~ west of city

³ 19939
Annual pods like cucumber
Open soil - over ground

³ 19940 *Compositae*
Straggling half-shrub left
hill side among stones

³ 19941 *Mimosaceae*
Shrubby hillside fls white
5 ft, shrub.

³ 19942 *Desmodium* - like
3 ft - sticky
cut-over ground

Bouteloua distachya

³ 19943 *Bouteloua distachya*
annual - densest & spreading
cut-over land

¹ 19944 *Sonchaceae*
vine on shrubs. small fl blue

³ 19945 *Leguminosae*
vine - fls yellow

¹ 19946 Mallow 1
5 pointed capsule -

³ *Panicum trichoides*
19947 *Panicum trichoides*
Cut-over land

³ *Paspalum acutum*
19948 *Paspalum acutum*
Cut-over land
Much branched rougher

Syntherisma sudanensis
⁴ 19949 *Valota?*
Pinnate - branched - cut-over land

³ 19950 *Cucurbit*
Vine - fls pale yellow - falling
greenly - fruit orange

³ 19951 Mallow
2 fls per branch

² 19952 *Stylosanthes* or *gossypium*
stomby hillside - 8-12 ft
fls pale yellow, fading to
pink

³ 19953 *Pennisetum*
Large bushy - up to 8 ft
straggling ~~to~~ creeping at base

³ 19954 - "
stems with cypselum -
hill side - 6-10 ft - prickly
stomby hillside

Paspalum racemosum

³ 19955 *Paspalum* (candida)
cut over land, straggling
much branched - 2-4 ft

³ 19956 Legume
straggling herb - stems
fls pinkish

³ 19957 *Apolynon*
Vine - fls yellow

⁶ 19958 *Sporocarpium* -
Vine - fls scarlet

³ 19959 *Legume*
Vine - fls dull purple
white

⁴ 19960 *Fraxinifolia*
Shrub - fls yellow

³ 19961 *Acacia* ?
4 ft - vine covered

Blyxa latifolia
³ 19962 *Blyxa*
Among rocks

Lasianthus rosifolia *rupestris*
³ 19963 *Lasianthus* *compacta*
Among rocks - long simple
branches - 8-10 ft

³ 19964 *Ruellia*
cut-over land fls lilac

³ 19965 *Pithecolobium?*
Low ground near water
tree 30 ft, fls white

³ 19966 *Compositae*
shrub - tree fls - 10 ft

³ 19967 *Compositae*
scrambling shrub. several feet
fls white

³ 19968
Annual - fls lilac-blue

⁴ *Panicum trichoides*
19969 *Panicum trichoides*
Among shrubs - Much branched
& sterile fls 5-6 ft

³ 19970

straggling herb - 6-10 ft

³ 19971

Amaranth
straggling herb - several feet
fls white

³ 19972

Convolvulus
Vine - fls white

¹ 19973

Ficus
Climb Convolvulus

³

19974

Solanum 111
Med on river bank
fls white, fruit black

³ 19975

Acanthace
Med along road

⁴ 19976 Composite
Open ground - 2 ft much
branched

³ 19977 *Sporobolus argutus*
Sporobolus argutus
Open ground along road

³ 19978 Anacardiaceae
Along bank of river

² 19979 Convolvulaceae
vine - blue

~~Bayán~~ Belén
Old Camp - Port at end of launch journey
June 21 - Low ground very wet in wet season
³ 19980 Cyperaceae

³ 19981 Mimosaecae
tree 20 feet

² 19982 Rubiac 111
Herb.

³ 19983 *Delonix*

~~19984 *Amurca*
Discard
20085~~

³ 19985 *Jussiaea*
4-6 ft fls yellow

⁴ 19986 *Lycium*
Tree 20 ft fls white

~~¹ 19987 *Sagittaria*
Discard
June with
20084~~

³ 19988 Mallon
3 ft - half shrub fl orange

³ 19989 *Coccoloba*
tree 10-15 ft

³ 19990 *Chloris radiata*
Chloris
Common

³ 19991 ———
Tree 10-15 ft fl green

³ 19992 ———

¹ 19993 *Sabbatia*

19994

~~Erigeron~~

~~descend~~

~~20092~~

³

19995

Staminy

vs green

³

19996

Batis?

tidal flat - slope up to left

³

19997

Alouche

fls pink-purple

³

19998

Ruellia

³

19999

Alouche

3
20000

Sporobolus argutus
Sporobolus argutus /

3
20001 *Conyza*

3
20002 —

3
20003 —

3
20004 *Lonicera*
tree 16 ft fls scarlet

3
20005 *Commelina*
fls blue

Old Camp - June 22 - Rolling
land. Exposed mud along grade of
new dyke. For Quemados
³ 20006 ~~Dactyloctenium aegyptium~~
Dactyloctenium aegyptium

³ 20009 Boerhaavia
fls purple - discoid

³ 20007 Cuscuta
vine, fls yellow

³ 20010 Cuscuta
cluster of bristly fruits

⁺ 20008 Sesouma
vine, fls orange-red

⁺ 20011 Cucurbit
vine - fls yellow fruit globose
leaves diam. - looks like water-melon

1973
³ 20012 *Cucurbit*
fls yellow - vine - for tuberculate

³ 20013 —
tree 30 feet fls white

³ 20014 —
tree 15 feet fls white

Eragrostis ciliaris
³ 20015 *Eragrostis ciliaris*

³ 20016 *Lantana*
shrub 4 ft fls white & yellow

³ 20017 *Passiflora* ✓✓✓
vine fls greenish-white & blue

³ 20018

Tree - 10 ft fls white

³ 20019

Composite
6 ft - hairy shrub fls blue

³ 20020

Mallow
Shrubby - 5 ft fls rose

³ 20021

Legume
Vine fls blue-purple, fr. long

³ 20022

Composite
3 ft

³ 20023

Cuscuta
Stem 5 ft fls yellow

³ 20024 Legum
herb - 6 ft - fls yellow

³ 20025 ~~Legum~~ Ipomoea
v. blue

³ 20026 Ipomoea
v. fls white

³ 20027 Ipomoea
v. fls rose-purple
(~~think this is Ipomoea~~
~~sp. 20024~~)

³ 20028

³ 20029 Compositae
6-8 ft. fls yellow

3
20030

vine

Legume
fls dark purple magenta

3
20031

Vine

Legume
fls rose

3
20032

Anthephora hemiphrasata

Anthephora hemiphrasata

4
20033

Vine

Legume
fls rose

2
20034

rust on 35

3
20035

Vine

Legume

1 20036 rust on 37

4 20037 *Sporium*
Dum fls white

20038 *Cucurbit*
Dum

20039 *Labiata*

20040 *Legume*
Dum fls rose pink

20041 *Mimosa*
Shrub 8 ft fls rose

Mimosa albida var -

20012

= 14450

20013 Malva
fls yellow

20044 Malva
copied 2/2 but fls white

20045 Cucurbit
fls yellow

20046 Sida

20047 Impatiens
shrub fls pink

Impatiens white. see

1073
20048

Labiata

lft

20049

Scrophulariaceae

Swamp

20050

Oryza latifolia

Oryza latifolia

Swamp

20051

Moraceae

Swamp

20052

Amaranthaceae

20053

Mentzelia
Straggling, shrub or herbaceous
very fragile. fls yellow

1972
20054

vine

Synnes
fruit only

20055

fls

Acandrea
seeds

20056

Swamp

Chloris litzelburgii

Chloris

20056 $\frac{1}{2}$ *Syntherisma ecuadorensis*

20057

Lasiacis ruscifolia

Lasiacis ruscifolia

101

Always find this a small
low, culm, 4-8 ft sparingly
branched toward summit - infl. narrow

20058

Santana

Stems left fls red-orange

20059

Tree 30 ft fls white

20060

Physalis

herb - 3-6 ft fruit

20061

Gall fungus?

on tree with yellow fls

= 19929

20062

herb?

tree 10 ft fls white

20063

Lolium

fls pale blue

Chloris lützelburgii

— 20064

Chloris

Syntherisma sanguinalis

— 20065

Syntherisma sanguinalis

20066

Desmodium

20067

Mallow
fls white

20068

Sporobolus
mud

Oil Camp

June 28

In vicinity of Road camp - 15 km SE of main camp

20069

Open dry woods

Apocynon

Tree on tall tree (cut tree down)

fls yellow with yellow green eye

20070

Tall tree - cut tree down but the
flowers all broken in falling. No leaves
on tree. fls bright yellow (slightly orange)

20071

Cyperus
border of swamp

1072
20072 *Cuscuta*
Vine - fls yellow, border of swamp

20073 *Lygmus*
fls yellowish white - border of
swamp.

Hymenachne amplexicaulis
20074 *Hymenachne*
In water of swamp. forms
a large area in swamp.

20075 *Cuscuta*
Border of swamp
on 20079

20076 *Lygmus*
On water of swamp

20077 *Trichularia*
In water of swamp + in mud
along edge - fls yellow

1973
20078

Amaranth
Shade of woods near swamp

20079

Amaranth
Shade of woods border of
swamp

Oplismenus burmanni

20080

Oplismenus
Shade of woods border of swamp

Some heads near smut?

20081

Rubiac
Large shrub or small tree
10-15 ft. fls white

20082

Rubiac (herb)
Border of swamp

Echinochloa colonum

20083

Echinochloa colonum
Border of swamp

20034 *Sagittaria*
Swamp, ~~in~~ ⁱⁿ mud
along edge up to 8 ft
blades up to 15 inches fls white
= 19987 in discarded?

fruit from
957

20035 *Cassia*
Small tree - 15 ft fls yellow
Low woods

20036 *Cuscuta*
Near swamp - on ground

20037 *Eleocharis*
Mud at edge of ~~swamp~~ marsh

20038 *Amnemonia*
Border of marsh = 19987

20039 *Sedum*
Wade of marsh 6-8 ft
fls purple

20090

Eleocharis
Wet of marsh

20091

Eleocharis III
shallow wet of marsh

Eragrostis miscosa

20092

Eragrostis
Sandy bank

20093

Cordia?
Stems 4-5 ft along bank
of marsh. fls white

20094

Ballon vine
climber on stems, border of
marsh. fls white

20095

Water lily
Wet of marsh. pulls up long
blades floating. fls all closed
(3⁰⁰ PM). Above surface but after
wards submerges below surface

1973
20096

Salvinia?
Swimming plant in marsh
of water by lowlands

20097

Salvinia auriculata Aubl.

Salvinia
floating on water of marsh

20098

Salvinia
Marsh - a mixture
of 96 + 76?

20099

Pistia
floating on water of marsh
in glens. Spikes greenish white

20100

Large tree - up to 50 feet.
No orange-red

20101

Tropaeolum
Vine - climbing on shrubs
fls red & orange-red

20102 Legume
Vine, fls greenish white w/ red
bluish tinge

20103 Papaya?
Woods, single stem 4 ft - branched
at summit with clusters of leaves &
bright rose bracts (bracts & flowers)

20104

woods - shrub

ant

1072
20105 *Cissampelos*
Vine - woody

20106 *Amaranth*
Spreading - decumbent, sandy
bank of stream

Leptochloa filiformis
20107 *Leptochloa filiformis* |
sandy bank of stream

20108 *Lippia*
Sandy bank of stream

20109 *Orclisid*
Vine - herbaceous - fls brown
mosses

20110 *Juniper* on III

Ecuador

20111 Composite
shrub 6-10 ft fls white
woods

20112 ~~3-4 ft~~ ~~shrub~~ ~~woods~~
Juniper on mallow

20113 Mallow
woods - 3-4 ft fls red-
woods

20114 Mallow
shrub 4-6 ft fls rose

20115 Legume (mimosaceae)
Stems very spongy flaking on
surface of bark, fls yellow

June 24
Bill camp - By path to mist - woods

20116 Mallow
Hibiscus hitchcockii Ulbricht in Kearney
Leaflets of Western Botany 7:271. 1955
between Guayaquil and Salinas, Prov. Guayas,
June 1923. in Gray Herb

20117 *Acanthaceae*
fls rose-scarlet

20118 *Amaranth*
herb - 6 ft

20119 *Solanum*
Shrubby herb, fls yellow
fruit scarlet, glabrous, 10m diam

20120 *Dalbergia?*
Half shrub 5 ft fls pale blue

20121 *Sorbus?*
tree woody fls white

20122 *Leguminosae*
shrubaceous tree

20123

Verbascum

3 seeded capsules
in involucre

Chaetochloa tenuis

20124

Chaetochloa

Straggling out of a pile of ties

Snayaguit - June 26

Road across river bridge

20125

Lasiacis (compositae) *truncata*
pubescent shrubs & glabrous on
some plants, *Lasiacis racemifolia*

20126

Composit

Straggling herb 6-8 ft. among
brush along river

20127

Composit

Shrub, 6-10 ft. fls white

20128

Urticace?

Small tree 20 ft, fruit globose
in round, with a young orange

1973
20129

Lasiacis ruscifolia
Lasiacis sorghoidea

20130

Paspalum (condidum)
Straggling - apparently annual
a stem showing here

JS

20131

Mallow
E fl. fls pale yellow with small
purple eye

Paspalum racemosum

20132

Paspalum
Young plant showing annual root

Lasiacis sorghoidea

20133

Lasiacis (sorghoidea?)
Spikes small, otherwise looks
like *sorghoidea*

Paspalum racemosum all for U.S.

20134

Paspalum
= 19955

1023
20135

Lasiacis ruscifolia
Fungus on
Lasiacis ruscifolia

20136

Lasiacis ruscifolia
Fungus on
more on the plant same

11
2013

20137

Legume
Shrub 10 ft

20138

Legume (mimosaceae)
Tree 25 ft, near river

20139

Composite
Shrub (half dense) 6 ft
white

20140

Sapindaceae
~~Small tree 15 ft~~ marshy zone

20141 *Cuscuta*
Calyx & pedicels dark purple
corolla white

20142 *Compositae*
Hats stems 6-8 ft high
white

20143 *Legumin*
tree 30 ft

20144 *Sapindae?*
small tree 20 ft

20145 —
vine

20146 *Legumin*
Woody or half woody vine

Oplismenus hirtellus

20147

Oplismenus
 shrubs of small trees along
 river

20148

Sapindaceae
 mostly in fls white tinged
 with orange

20149

Passiflora
 vine fls brown

20150

Euphorbia
 (possibly group)

20151

Compositae
 fls yellow

20152

Sporium
 vine fls white

20153

Trinopelta
fls yellow, 5 ft

20154

Leguminosae
Small tree 20 ft

20155

Sporobolus
vml

20156

Compositae
fls white

20157

Papaya?
Stem red, simple small
branch - 4 ft, with thorns
fls at top - no leaves

Lasiacis ruscifolia

20158

Limonium longicaule?
~~tree~~

20159

Compositae
Tall herb - up to 15 ft.

Milegro June 30

20160

Cyperus
Open ground along R₁

20161

Paspalum conjugatum
Pasp. conjugatum
Open ground along R₁
common in lawn & grounds

20162

Compositae
Open ground along R₁

20163

Leptochloa filiformis
L. eplocha filiformis
ditto

20164

Amaranth
ditto prostrate rooting

20165

ditto

Lippia

20166

ditto

Physalis
fls yellow

20167

ditto

Phyllanthus

20168

ditto

Eragrostis hypnoides

one part *hypnoides* ///

20169

ditto

Physalis ?

20170

ditto

Helianthus
fls white

20171

dillo

Elymus indicus
Elymus indicus

20172

dillo

Leptochloa scabra
Leptochloa scabra

20173

dillo

Scorpus

20174

Lawn about house

20175

Garden in shade

20176

dillo

Eragrostis ciliaris
Eragrostis ciliaris

20177 *Paspalum microstachyum*
weed in garden

20178 *Chloris radiata*
ditto

20179 *Eragrostis amabilis*
ditto

Paspalum paniculatum

20180 *Pasp paniculatum*
ditto

July 1

Along R. west of Ingenio Valley. Mostly weeds &
20181 Mallova
8 ft - heavy stem - fls orange-yellow

20182 *Santonia?*
Half-stem - 4-6 ft - fls blue
fruit ^{fleshy} globose - fls purple

20183 *Boehmeria*
Half-wood - 6-10 ft - fls green-white

20184 *Mikania*
Vine herbaceous - fls white

20185 *Canna*
Moss plant - 5-8 ft fls
pale yellow, spotted with orange-red
apex, and stem leaf. heads
at regular intervals along stem

20186 *Piper*
Shrub 4-6 ft

20187 *Asclepias*
Corolla red, brown orange
3-4 ft

20188 *Cuculus rivinus*

20189

Eupatorium
small half shrub, fls lilac

20190

Cassia
More of the same
fls white
greenish

20191

Mallow?
2-4 ft, fls white

20192

Shrub

fls white
in clusters in axils

Panicum maximum

20193

Panicum maximum
Common in cut over field

20194

Coix lachryma-jobi

Corymbolobos

20195 *Alamkhan*
herb

20196 *Cucurbit*
herb fls yellow

20197 *Labiata*
herb, 5-8 ft fls blue

20198 *Lytroon*?
fls pink purple

Panicum barbinode
— 20199 *Panicum barbinode*

20200 *Heliotropium*
8 ft fls white

20201

Scleromunna

simple stems equally leafy
pls yellow, dark green at apex
apex & middle leaf

20202

Paspalum orbiculatum

Paspalum orbiculatum

dry pond.

20203

(*Euphorbia*?)

some herbaceous

20204

Euphorbia maculata

20205

Ligula (minors)

shrub - very prickly - 65 rose
5 ft

20206

Lantana?

half shrub 2-5 ft bl pink

20207 *Leymus*
Herb vine - fls blue & purple

20208 *Bursera* 3 11
wood, fls purple

20209 *Cucurbit*
vine

20210 *Rubiac* (stachys)
2-3 ft fls pink

20211 —
Woody at base, leaves fleshy

20212 *Euphorb*

20213

Panicum trichoides
Panicum trichoides

20214

Panicum trichanthum
PanicumLooks like *P. trichanthum*
but appears to be annual
is it a larger form of *P. trichanthum*?

20215

Panicum fasciculatum
Panicum fasciculatum

20216

Amaranth
3-6ft - fls white

20217

Conyza
3-6ft - fls green

20218

Conyza
2-6ft - fls yellow

20219 *Ligustrum*
tree 30 ft, planted along
fence fls pink mixed

20220 *Trimmifolia*
8 ft fls yellow

20221 *Trimmifolia*
ditto but fls smaller

20222 *Dioscorea*
1000 mm fls white

20223 *Piper*
6 ft

Ochnanthus pallens
— 20224 *Ochnanthus*
shady place

20225

Ipomoea

Herb vine fls purple blue

20226

Cucurbit

Stems prostrate, fls green throat pale
green 1 inch oval smooth

(July 11)

South woods - natural vegetation
low flat land very wet in wet seasons
now completely dry except a few ponds.

20227

Compositae

shrub 8-12 ft fls white

20228

Compositae

shrub 10-12 ft fls white

20229

Tree 15-20 ft fls in
axillary clusters, white

20230

Labiata

Shrub, long straggling branches
5 ft fls lilac

20231

Eupatorium
shrub 18-20 ft fls lilac

20232

Solanum
fleshy & prickly, 4 ft fruit
globose, fleshy thin skin, 2 cm
diam, fls white

Axonopus compressus

20233

Axonopus compressus
floor of scrubby forest,
long runners

20234

Solanum? Cestrum?
small tree or large shrub
10-20 ft fls green
or yellowish-green

20235

Water plant
can dried mud - in wet
season in pond, fls white

Lasiacis suscifolia

20236

Lasiacis suscifolia
climber in woods,
same as *Brayneria* plant
fruit small for *L. suscifolia*

Oplismenus hirtellus

20237

Oplismenus

shady place

20238

tree 30-40 ft fls
greenish

20239

Trinajalla

shrub 10 ft fls small
& ~~greenish~~ yellowish green
bls lobed

20240

Trinajalla

shrub 5-8 ft fls medium
pale yellow bls several
lobed

a third specimen already collected
has large orange yellow fls

20241

Solanum

small tree 10-15 ft
fls white
3 ft

20242

Compositae

fls white

20243 *Piper*
shrub 6-15 ft

20244
tree 25 ft fls greenish

20245
tree 25 ft fls white

20246
tree 30 ft fls greenish

20247 *Legume*
vine-herb fls yellow

20248 *Mallow*
Half shrub - 8 ft fls orange
yellow
wood

20249

Lygus (mimus)
fruit of a growth murena
with white fls - already
collected

20250

Solanum
fls white - wood 5-8 ft

20251

Lygus
surface of water of pond

Homalocenchrus hexandrus

20252

Lygus
around pond

20253

Canna
most place - 3-6 ft
fls than pale yellow

20254

Permiselin
most place. Small spots
worm-like, white on the
ground very branched, white
dendritic - mostly at base

20255

Dactyloctenium
moist place

Eriochloa punctata

20256

Paspalum
dried up pond

Panicum laxum

20257

Panicum laxum
dried up pond

20258

Apocynum
Vine, fls yellowish green
pods long + slender

20259

Conyza
shrub - 6-10 ft tall white

20260

Hemizonia
5-10 ft, balls several
at stem ~~apex~~ apex, lower
part ^{usually} ~~often~~ abscised
into a blade
stems sometimes bronze be-
neath

20261
shrub

Corymbium
fls white

20262

Ceratopteris thalictroides (L.)
Brongn.

7 m
dried up fern

20263

Mikania ?
shrub vine fls white

Phyllanthus

20264

Cissampelos

Woody vine, mfl scarlet

20265

vine 25 ft fls white

July 2

Same habitat as preceding
Hachelochloa granulata

20266

Psychotria granulata

Shrub in field.

20267

Euphorbia (dentata)

3 ft along fence

20268

Desmodium

6 ft fls pink fading
to bluish.

20269

Convolvulus

vine, in out camp field,
considered a pest fls yellow

20270

vine

Ipomoea
fls white

Syntherisma ecuadorensis |

20271

Along roadside

Syntherisma

Syntherisma digitata

20272

Along roadside

Syntherisma digitata

20273

On a tree

Phorolobos?

Paspalum scabrum

20274

rampy shrubs, common, clumps
over bushes, on pine park and on
open, to as much as 15 feet.
Old racemes reflexed

Paspalum (condidum)

20275

vine herb fls yellow

Legume

1972
20276

Herb in dried up pond.

20277

Jussiaea
fls yellow, fruits purple
dried up pond

20278

Sagittaria
dried up pond

Manisuris compressa fasciculata

20279

Manisuris fasciculata
dried up pond

20280

Oxalis
dried up pond

20281

Physalis
Annual - fls yellow with
purple eye

20232

Woods - derived up forest

Panicum megistum 11

20233

Panicum megistum
Among *Syntherisma sagittifolium*
along stream
Habitat of shrubs very densely-vegetated

20234

Darceya
Low 40 ft fls white

Leptochloa virgata

20285

Leptochloa virgata
Among stands of grasses

20286

Fls a beautiful blue-purple
fls

20287

Cassia
Among trees - high red

20238

Castanea?

Tree 25 ft fls yellow
green

20239

Simarubaceae?

Vine herb - fls white with
purple spots in eye

20290

Papaya - wild.

Grown to be cultivated,
edge of timber, diarsis, I
with sessile fls 2 in long
fruits numerous shape of cultivated
but smaller (4-6 in), trees
up to 15 ft.
fls in long panicles 1 ft long, fls
smaller

20291

Ranunculaceae

Shrub 6 ft fls yellow
& red.

20292

Legume

Vine-herb - fruit Desmodium
like

20293

Anacardiaceae

Woody shrub 15 ft
with straggling or vine-like
branches, fls white

Panicum trichanthum

20294 *Panicum trichanthum*
Sheeping and browsing
at base

Lanicis sorghoides

20295 *Lanicis sorghoides*?
Sheeping, browsing

20296

Lanicis
low on ground, yellow blue

20297

Scroph
Among bushes

20298

Cassia
Small tree 15 ft fls
yellow

Lanicis oxyceras

20299

Lanicis
capitulum
on bushes, sheeping &
browsing at base.

Lemairoocereus godingianus B. & R.

Thuriza - July 4. Along track
to east 2 km.

20300 Cactus

Organ cactus - frequent - up to 20 ft.

20301 Ipomoea

Herb vine - fls purple

20302

Shrub 6 ft fls blue

20303

2-3 ft
slimly

Guaphalium? III
fls white, heads

20304

Half shrub 6-8 ft - fls
pale blue Labiate

20305

6 ft - Labiate

20306

Solomon's
Shrub 3 ft fls blue 1

20307

Solomon's
Shrub 10-20 ft fls white

20308

Rubiaceae
Mat mats in open ground

20309

Crucif
Weed along track III

20310

Eupatorium
half shrub 8 ft fls white

20311

Euphorbia 1

20312 *Borhavia*
Stems very much branched
fls purple crimson

Chaetochloa geniculata

20313 *Chaetochloa geniculata*

20314 *Amaranth*
Stems very much branched
fls crimson

20315 *Begonia*
Thick stem 1-2 inches, 1 foot tall
in glaucous, at summit fls
white tinged with pink, no
leaves present

20316 Labiate
4 ft fls blue

20317 *Mentzelia* III
shrub - 8 ft - fls orange

20320
19913

407

20318 Composit
fls yellow

20319 Eupatorium
shrub 10 ft fls white

20320 Cuscuta
growing on narrow shrubs,
shrub fls slimy white

1973

6571

1072