

2 Allen, P.H. 2893-5201 1942-1947

Allen, Paul H.

BOOK 2.

Field notes 1942 - 1947

2893- 2979 Panama
2980-3016 Colombia
3017-5201 Panama.

- X 2893 - MAXILLARIA - Sepals & Petals Pink, edges
 yellow with yellowish ribs - lip yellow - general
 lobe heavily spotted rose pink. (1)
- X 2894 - HONTRAYA BURTII (1)

EL VALLE - NORTH - 800 METERS.

12/23/41

2895. ONCIDIUM JACQUELII - epiphyte - S. & P.
 Rich chestnut brown - with very narrow
 yellow edge (1/2 mm.) margins undulant,
 & crisped -

Shadowny yellow tessellations on sep.
 Frontal lobe of lip bright yellow -
 with ³undulant brown spots near base
 of calyx - anther cap yellow.

Flowers 4 - 4.5 cm in diameter. (1)

Vicinity of Palo Verde - C. 2 - O.M. 1-11-42

- X 2896 - BAUHINIA - Giant liana - common in trees
 along rocky benches - mature canes
 woody - curiously undulant - armed with spines.
 Flowers greenish white - fragrant. (6)

REGION NORTH OF EL VALLE DE ATEN - ABOUT 1000 m.
(FINCA MUÑOZ) 1/13/42

- X 2897 - CAUCANISMA ALEXI - Epiphytic STRUBS - 1/2 m. or
LESS - BRACTS SHARP PINK - FLOWERS YELLOW. (2)
- X 2898 - Epiphytic Bromeliad - RACHIS TAN. BRACTS TAN.
FLOWERS WHITE - FOLIAGE GREEN EXCEPT FOR BASE
1/4 WHICH IS BROWN. (3)
- X 2899 - Epiphytic FERN - MYKROCOPTYLLOUS SPECIES -
ASSOCIATED WITH MINUTE BLACK ANTS & LARGE
BROWN SCALE INSECTS - (6)
- X 2900 - THECOPTYLLON - DRY TANK EPITHELIUM -
INFLORESCENCES GREAT - COVERED WITH A SILVER
GRAY TOMENTUM - LEAVES GREEN - FLOWERS ROSE
PINK - BUDS LAVENDER. (2)
- X 2901 - EPIDENDRUM - Epiphytic - FLOWERS GREEN. (2) (C)
- X 2902 - ORCHID - Epiphytic - FL. YELLOW. (3) (C)
- X 2903 - LOCKHARTIA - Epiphytic PLANTS MUCH LIKE
L. PALLIDA IN SUPERFICIAL APPEARANCE - EXCEPT
THAT THE LEAVES RARELY EXCEED 8" IN LENGTH
FLOWERS RICH YELLOW - ABOUT 1/4" IN DIAMETER. (1)
- X 2904 - ORCHID - Epiphytic. (2) (C)
- X 2905 - Epiphytic Bromeliad - AXILLARY BRACTS &
PANNICLE RED - IMBRIENT IN BRACTS OF INFLORESCENCE
SILVER GRAY - FLOWERS LAVENDER - FOLIAGE GREEN. (2) (3)

- X2906 - *BEUONIA* - FLOWERS WHITE. STAMENS YELLOW
YELLOW - COMMON ON ROCKS & DECAYING STUMPS. (3)
- 2907 - *MELASTOMACE* - FLOWERS LAVENDER. COMMON (6)
- ON BOUTARDS IN STREAM BEDS -
- X2908 - *ACANTHACE* - SHRUB - 2 - 2 1/2 M. FLOWERS
SCARLET. COMMON. (C)

2909 - *HELICONIA* - INFLORES Cymes TERMINAL - ERECT.
PLANTS ABOUT 3 M TALL. BRACTS GREENISH, OR SOMEWHAT
TINTED WITH PURPLE. FLOWERS BRIGHT PINK.
UNDER SURFACES OF LEAVES OFTEN TINTED PURPLE. (H)

X2910 - TREES - 20 - 25 M - FLOWERS ROSE PINK -
FLOWERS LITERALLY TRAILS EVERYWHERE. COMMON. (C)

SOUTH RIM OF EL VALLE - ABOUT 650 M. 1/13/42

X2911 - *CASSIA*? SMALL TREES 3 - 6 M ALONG ROADSIDE
ON DESCENT INTO VALLE PROFUNDA - FLOWERS
HOTTER YELLOW - STEMS VERY HAIRY - HAIRS
LONG & SILVER. (12)

- X 2912 - TREES - 6 m. FRUITS PINK - CONSPICUOUS.
Heliocharis - (ALSO IN FLOOR 7 ON NORTH SIDE) (3)
- 2913 - Peperomia - GROWING ON EXPOSED ROCKS WITH
FURCROIA ETC - STEMS PINK - LEAVES VERY THICK (6)
- X 2914 - ONCIDIUM CHIROPHORUM - GROWING IN "NARROW"
TREES - FLOWERS YELLOW (ALSO ON NORTH SIDE) (2)
- X 2915 - BULBOPHYLLUM PAUKI RAKES - COMMON - (2)
- X 2916 - FERN - TERRESTRIAL - FRODS PRESSED VERTICALLY
AGAINST TRAILSIDE BANKS - COMMON - (5)
- X 2917 - CASSIA - SCANDENT SHRUB - 2' - 3' m.
FLOWERS BROWN YELLOW. (6)

2923

2.3 - PSEUDO BULBS SUB-ORBITULAR - 3.5 - 4.00 CM.

LONG AND 2.5 - 3.00 CM WIDE - MUCH

COMPRESSED - WRINKLED - MONOPHYLLOUS,

HEAVILY SPOTTED WITH BLACK - BASE OF

PSEUDO BULBS SHEATHED IN 3 FOLICULAR

BRAIDS - FROM THE AXIL OF ONE OF WHICH

THE FLOWERING SCOPE APPEARS -

FLOWERS VERY VARIABLE IN SIZE - MEASURING

FROM 2.5 X 2.00 CM. IN THE LARGEST VARIETY

SEEN (PRESERVED IN ALCOHOL) TO 1.75 X 1.00 IN

THE SMALLEST FLOWERING VARIETY. COLORS AS

PREVIOUSLY NOTED.

Panama

REGION NORTH OF EL VALLE - (FINCA MUÑOZ)

800 - 1000 M - FEBRUARY 2 - 1942

- 2918 - MAXILLARIA - Epiphytic - DWARF PLANTS - S. & P. CREAM -
LIP CREAM - FRONTAL LOBE RED-BROWN - ①
- X 2919 - COLUMNEA - Epiphytic - TIPS & MARGINS OF
LEAVES BLOOD RED - STEMS RED - FLOWERS
RED - ②
- X 2920 - MAXILLARIA - PSEUDOBULBS CLUSTERED - MATURE LEAVES
6.5 - 17 CM WIDE - 25 CM LONG - 3 SEALS & PETALS
YELLOW - LIP YELLOW - WITH FRONTAL LOBE HAVING
A WHITE MARGIN & LATERAL LOBES RED-BROWN - ①
- 2921 - MAXILLARIA - DWARF TUFTED PLANTS - 3 SEALS &
petal pure white - LABELLUM ROSE PINK - WITH
pale yellow FRONTAL LOBE - ①
- X 2922 - BRASSIA? - PLANTS RESEMBLING HORTLEYA -
3 SEALS & PETALS RICH CHESTNUT BROWN - LABELLUM
pale yellow - ①
- X 2923 - ONCIDIUM - LEAVES GREEN - PSEUDOBULBS ROUNDED -
BLACK - FLOWER SCAPES MUCH GRACERED - NORMALLY
ABOUT 14" LONG - 3 SEALS - PETALS & LIP YELLOW
YELLOW - WITH CHESTNUT BROWN BLOTCHES AT
BASE - BLOTCH AT BASE OF LABELLUM IN FORM
OF A ROUGH U ^{yellow} INCLUDING BARK CALLUS. ①
← (CONTINUED opposite page -)

CERIBA Alluvii

- X 2924 - Epiphytic - STRANDED TREE - 10-12 M - OUTER SURFACES OF PETALS OLD ROSE - INNER SURFACES & OUTER MARGINS CREAMY WHITE - BARK OF TRUNKS & BRANCHES SPINY - (3)
- 2925 - BIGNONIA - Epiphytic - Fls. VERY pale pink - (4)
- X 2926 - ORCHID - epiphytic - Fls. pale green - (1)
- X 2927 - ACANTHACE - SHRUB - 1' LM - Fls. BRILYANT yellow (2)
- 2928 - MONOPYLE - COROLLA LOBES BLUE - OUTER COROLLA WHITE - INNER COROLLA pale yellow - UNDER SURFACES OF LEAVES purple - (1)
- 2929 - BRONCHIA - epiphytic - SCAPE BRACTS SCARLET - FLOWERS WHITE - FOLIAGE GREEN - TINTED LAVENDER - (1)

CYENOCHTES

RIO TABASARA - PROV. OF CHIRIQUI - 50 M - ELEVATION - (PLANT FLOWERS IN BARBOSA - COLLECTED AT ABOVE LOCALITY 1/3/42)

- X 2930 - SEPAL & PETALS GREENISH yellow - LIP PURE WHITE - WITH DARK GREEN BASAL CALLOS - COLUMN GREENISH yellow - WITH BUTTER yellow ANTHUR CAP. FLOWERS DELICATE, VERY TRANSPARENT IN THE MORNING - (1)

Region north of El Valle de Anon - Prov. of
Cocle. elevation ABOUT 1000m - JUNE, 1941

X 2931 - STANHOPEA - Flowered in the collection of MR.
A. S. B. Fairchild, SAN FRANCISCO DE LA CAJON, and
collected by him at the above locality. Flowers
CREAMY WHITE, without characteristic "eyes"
or spots. LARGER THAN EITHER *S. wardii* OR
S. bucephalus - ①

X 2932 - MAXILLARIA - (*Koerber photograph*) Flowers sessile
in leaf axils - Sepals & petals yellow. Lip
reddish brown. Column reddish brown - FRAGMENT ①
Collected by MR. A. S. B. Fairchild & flowered in
his collection Feb. 12. 1942 -

vicinity of PASORA - Rep. de PANAMA -
25 m - 2-17-42

X 2933 - ONCIDIUM - STIPITATUM - Sepals & petals
yellow - richly spotted & barred chestnut
brown - Frontal - much expanded lobe
of labellum. BRIST yellow - lateral
standard lobes of same color - chestnut
brown crested ^{A BASE OF LIP} called Below column. ③
(Flowers in pickle showing variation in size)

Region SOUTH OF EL VALLE DE AYON
600 m - 2-20-42

2934 - *SOBRALIA WILLIAMSII* - STRIKE CANE - ①

Region NORTH OF EL VALLE - ABOUT 1000M
2-20-42 (FINCA MAJOR)

X 2935 - *MAXILLARIA* - EPiphytic - Flowers BRIGHT yellow ①

2936 - EPiphytic - S.P. LAVENDER, Lip GREENISH LAVENDER ②

X 2937 - *ONCIDIUM* - S.P. BROWN-TIPPED yellow.

Lip BROWN, WITH FRONTAL & LATERAL LOBES yellow.

CREST AT BASE OF Lip woolly - WHITE - AREOLAE
yellow. ①

X 2938 - SEE # 2923 FOR DESCRIPTION - ①

X 2939 - *ONCIDIUM CHIROFLORUM* - Common ②

2940 - *ENTARPE ALLENII* - Single - OR multiple

STEMMED SLENDER palms - THE TRUNKS - BRUSH -

OBSOLETE RIVER - AVERAGE 5-6" IN DIAMETER.

FRONDS PINNATE, WITH A LEAF - WELL DEVELOPED

CROWN-SHAFT. BASE OF TRUNK SUPPORTED

BY A MOUND OF BUTTRESS ROOTS - LEAVES

RED - ABOUT A FOOT IN HEIGHT. GENERALLY

DISTRIBUTED THROUGHOUT THE VALLE AREA

ABOVE 700 METERS - ②

2942 - (CONTINUED)

LESS CONDENSED - OR DIVIDED FROM WIND OR
DAMAGE - INFLORESCENCES PENDANT - INFRA -
FOLIACIOUS - 2-4 in NUMBER - (1)

REGION NORTH OF EL VALLE - 800 M -
4-4-42

X2943 - SONGORA - FLOWERS STRAW YELLOW -
SPOTTED RED-BROWN - SLIGHTLY FRAGILE. (1)

REGION NORTH OF EL VALLE - ABOUT 800 M
5-10-42

2944 - COLUMBA - FLOWERS RED - STEMS & TIPS OF LEAVES
BRUISED BLOOD RED - EPiphytic - (2)

X2945 - Bromeliad - epiphytic - BRACTS OF SCAPE SCARLET
FLOWERS YELLOW - (2)

HILLS SOUTH OF EL VALLE - ABOUT 700 M -
5-10-42

X2946 - ERICACEAE - TREE - 20 M - FLESHY BRACTS
BRIGHT RED - CORolla TUBES BRIGHT WAXY
YELLOW - VERY HANDSOME & LONG LASTING (5 Hb) (18)

Hills north of El Valle - about 800 m -
5-10-42.

- 2947 - Slender palm - *Beccaria?* - 2 m - growing
in heavy shade - (3)
- 2948 - Small tree - 3 m - fruits conspicuously orange
black on demerence - (1)
- 2949 - *Chamaedorea?* - Slender palm - 3 m - (1)
- 2950 - AEROID - epiphytic - spathe broad-
fleshy - deep pink - conspicuous - (1)
- 2951 - *Bactris* - leaves covered with short
soft golden hairs - spathe wooly
rather than spiny - 5-8 nerves -
2 1/2 - 3 m tall - in deep shade - (1)
- X 2952 - *Stelis?* - epiphytic - flowers purple
black - (2)
- 2953 - *Apocynaceae* - shrub on small tree - 3 m -
flowers yellow - (3)
- 2954 - AEROID - epiphytic - (2)

Hills south of El Valle about 700 m -
5-10-42

- 2955 - *Andira* - trees - 15-20 m - slender -
common along roadside - flowers
lavender -

2956 - MORNING - Flowers ~~specimens~~ ~~specimen~~ - (Kerr)

(Photo) From Fairchild collection ^{1 flower} in Mass

(1)

Region near N. E. Valle Fern

7/9/42

2957 - Mountain stream in rocky area. 1/2 m

Flowers bright yellow.

(2)

Vicinity of Yacamote Point, Laguna Province

C.N. - 9-7-42

2958 - AREA - Common in rocky mountains - Flower

spikes 3 m tall - often composed of stems

of small plants. Flowers spiced in - with

dirty yellow anthers.

(1)

2959 - Heliconia - usually known as "Curt's plant"

Plants very tall - 2 1/2 - 3 1/2 m. Foliage banana-

like - Inflorescence present - conspicuous and

set at angles to the upright rachis. Bracts

bright red - surrounded by yellow.

Flowers yellow - followed by blue fruit.

2960. *Heliconia latifolia* - Plants appearing
2 m tall - in flower - great - Bracts
SAT AT ANGLE TO ONE ANOTHER IN THE
UNDULANT FOLDS - Bracts slender -
BUT SHARP - VIBRANT - RED - WITH
A YELLOWISH AREA NEAR THE POINT OF
ATTACHMENT TO THE FOLDS. Flowers
GREENISH YELLOW WITH STEEL DARKNESS
TO THE PETALS. (1)

2961 - *Heliconia* - "STRAMINEA" APPEARING
2 m - BUT AS MUCH AS 3 & AS LITTLE
AS 1 1/4 UNDER SOME CIRCUMSTANCES.
2011-9-9-42, THE PLANT SLIPPER -
CLOSELY IMBRIKATED, BRACTS ^{STRAW} YELLOW, WITH
A GREENISH TINT IN THE 20, ONE AREA.
FLOWERS STRAW YELLOW, TIPPED DARK
GREEN - (5)

VICINITY OF BENICO, NEAR ROCK CRUSHER.
2011-9-9-42

2962 - *Heliconia* - HERE COMMON TO ROCKY EXPOSED
HILL TOP - Clumps with strap like leaves
1/4 m tall - laxly appearing. INFLORESCENCES
WEAR PROMINENT FL. WHITE, SMALL - WITH
YELLOW CONTRAST STAMENS. (5)

REGION NORTH OF EL VALLE DE ANTON - 9/10/42
ABOUT 700-800 M. COLLECTED BY MR. EDWARD
OLSON

- 2963- BRASSIA Allenii - S. & P. TAN - Lip pale yellow
Flowers DELICATE FOLLY FRAGRANT. (1)
- 2964- DICHAEA sp. plants about 10" tall - sepals
& petals pale green - lip royal purple - (1)
- 2965- Phoranthallis - epiphytic. (1)

SAME REGION AS ABOVE - PLANTED IN
COTTON ABOUT 9/10/42 600 M. FLOOR

- 2966 - epiphytic - common on trees near water's
edge - TUFTED - plants with single thick
leaves - pseudobulbs about 1" high, plants
looking like dwarf callunas. flowers
nodding from base of pseudobulbs
as in E. STANFORDIANA. flowers ^{fleshy} pale
yellowish green. (1)

- LA VENTA, Coché Province, Sea level. 9/19/42
2967 - common weedy herb. fls. yellow, ^{with dark brown} centers.
conspicuous. (1)
- (also south of El Valle)

VICINITY OF CASA LARDA - ABOUT 65 M. 10/18/42

2968 - BAUHINIA, GIANT WOODY LIANA, CHIMBING IN
TOPS OF TALLEST TREES - WOODY STEMS ABOUT
THE DIAMETER OF A MANS ARM, BUT NOT FLATTENED,
PERFORATED NOR UNDULANT AS ARE SOME
SPECIES. WOODY TENDRILS PRESENT. FLOWERS
PURE WHITE. (4)

2969 - SCLEROTESIA, GROWING IN WET SAVANNA - FLOWERS
BRIGHT PINK, VERY CONSPICUOUS - $\frac{3}{4}$ M TALL. (3)

2970 - SCLEROTESIA, GROWING WITH THE FOREMGT SPECIES -
FLOWERS MUCH SMALLER - DULL, DIRTY PINK. (1)

2971 - POLYDALA - COMMON ON DRY SAVANNA - FLS.
PALE LAVENDER - (4)

2972 - POLYDALA - DWARF SPECIES, HAVING BROAD LEAVES.
THE BRIGHT PINK. (3)

HILLS NORTH OF EL VALLE - 3-14-43 - ABOUT
1000 M -

2973 - STEREA, "PANAMA" TREES 90 FT.
TALL - UNBUTTERED, MATURING A SINGLE
CAPPLE - LEAVES STRONGLY VEINED, ENTIRE

2974 - BUSTAVIA - TALL - SLENDER - SPARSELY BRANCHED TREES -
15 M - CONSPICUOUS FOR THE LEAVES - LEAVES CLUSTERED
NEAR THE ENDS OF THE BRANCHES - INFLORESCENCES
ERECT, TERMINAL, PANICULATE, OF A GOLDEN YELLOW
FRAGRANT FLOWERS - (LOMA DEL TIPO) ^{"membrillo"} ①

2975 - LUCUMA SP. TREE - 15 M - "MAMA MILLO"
FRUIT SPHERICAL - LIGHT ORANGE - TANGY &
REPORTED AS NOT EATEN -

2976 - CEIBA ALLENII, STRANGLER TREE, EPYPTIC
HABIT OF EPOBEA REPENSIFLORA LEAF SPECIMENS - ②

2977 - CECOLOBA - TREE - 25-30 M - "UVERO" ^{FRUIT}
PANIC - BUDS TANGY AND - FLOWERS WHITE
TICKLE, FRAGRANT - NEW LEAVES ^{CONSPICUOUS} -
RED - BROWN -

2978 - VIOLACEAE, CREEPING, STRANGLER TREE
HAVING THE HABIT OF POLYRACHIS ACRE -
FLS. CONSPICUOUSLY PALE BLUE - LEAVES
BLUE - (FOR)

2979 Calocarpum viside - tree - 25^m. 4 Fruits
green - seed exceptionally large - with a
conspicuously large hydium.

Paul H. Allen

Missouri Botanical Garden

Collections from

Columbia, S.A.

JULY - 1943 TO NOVEMBER - 1945

NO. 2980 TO 3407-A

PLANTS OF PANAMA.

MARCH - 1946 TO OCTOBER - 1947

NO. 3408 TO 5201

Species X IN LEFT HAND MARGIN HAVE BEEN DETERMINED.

Quibrada Chico: Vicinity of Bogota - Colombia
Elevation (about 11,000 ft. July 11, 1943 with F.M. Poole)

- 2980 Bromeliad - epiphytic on boulders. Paramo - Bracts scarlet
flowers white. (1)
- 2981 Loranthac - small tree - 3 meters - not parasitic - flowers ^{white} (3)
- X 2982 Espeletia corymbosa - plants not trunked - dwarf -
flowers yellow (2)
- 2983 Tree - 10 meters - flowers white (1)
- X 2984 Gentian - dwarf herb - flowers pale lavender - striped
deeper lavender (1)
- X 2985 Melastomac - dwarf herb - flowers yellow - scapes from
a bright green basal rosette - like a dwarf primula (2)
- X 2986 Lycopodium - steep banks (2)
- X 2987 Psichomanes - pendant - brownish woolly fronds -
boulders on Paramo (2)
- 2988 Melastomac - shrub - 2 meters - flowers deep rose (3)
- X 2989 Ericaceae - dwarf shrub - 25 cm. - flowers rose red -
Paramo (2)
- X 2990 Geranium - flowers deep lavender - Paramo (1)
- 2991 Viburnum - tree - 10 m. - flowers white (2)
- 2992 Legume - herb - keels black - standards white - fragrant (1)
- 2993 Eleanthus - clumps on boulders in Paramo -
flowers rose purple. (1)
- X 2994 Ericaceae - shrub - 2 m. - flowers rose red (4)
- X 2995 Ericaceae - same as above but a tree - 15 m. - flowers larger. (2)
- 2996 Orchid - flowers pale lavender. (3)
- X 2997 Composite - flowers white. (1)
- X 2998 Composite - spiny shrub - 3 m. - flowers pale lavender (2)
- 2999 Espeletia - flowers yellow - plants with trunks 75 cm.
tall - leaves silvery - Paramo (1)
- 3000 Melastomac - creeping matted herb - flowers white -
leaves succulent - Paramo (2)
- 3001 Eriocaulon - dwarf herb - flowers white - Paramo
- X 3002 Composite - flowers yellow - Paramo (1)
- 3003 Plerisethallis - flowers pale yellow (1)

- 3004 *Lobelia* - dwarf herb - flowers deep violet - Paramo (2)
- X 3005 *Lobelia* - herb - flowers violet - Paramo (3)
- X 3006 *Hypericum* - flowers yellow Paramo (1)
- X 3007 *Eurhynchium* - flowers pale greenish white Paramo (1)
- (3008 *Spiranthes?* - flowers greenish white Paramo (2)
- 3009 *Melastomaceae* - woody herb - flowers black purple - Paramo (2)
- X 3010 Herb - leaves red-brown - flowers white - Paramo (2)
- 3011 *Orchid* - terrestrial - flowers bright pink Paramo (2)
- X 3012 *Urdacaceae* - flowers pale yellow - Paramo (3)
- X 3013 *Ericaceae* - shrub - 1 1/2 m - flowers pale pink - Paramo (2)
- 3014 *Epidendrum* - flowers pale greenish tan - Paramo (2)
- 3015 *Orchid* - flowers yellow - Paramo (1)
- 3016 *Ladium* - Liana - flowers yellow - fragrant - Paramo (1)

Rio Macu (Macu - Paramo) 8/11/43

- 3017 Shrub or small tree - 6 m. - flowers dull red - old clearings on sand. (5) (2)
- 3018 Tree - 10 to 12 m. - flowers dirty white (2) (2)
- 3019 Tree - 12 m. - fruits brown (2) (1)
- 3020 Tree - 10 m. (1)
- 3021 Distichous ^{Bromeliad?} *Bromelias* - very common - scape bracts orange scarlet (2)
- 3022 ~~Orchid~~ ^{IN OLD CLEARING AT HEAD OF TRAIL TO YAGUA} *Orchid* - vine - flowers yellow (3)
- X 3023 Perrestrial orchid - branched - 2 m. - flowers lavender - lip fringed with crested hairs (2)
- 3024 Herb - flowers white - common (1)
- 3025 Permite nest epiphyte - flowers white (1)
- 3026 Sedge (1)
- 3027 *Panicum* (1)
- 3028 Bromeliad - terrestrial - bracts bright red (2)
- 3029 *Scitamineae* - bracts red (1)
- 3030 *Orchid* - epiphytic - flowers tan (1)
- 3031 *Epidendrum* - terrestrial - flowers green (1)
- 3032 *Lycopodium* - common one - tas - tab - wa (2)
- 3033 *Chuscia* - tree - 15 m. - flowers white - stamens yellow - fragrant. (4)

- X 3034 Pichomanes - old clearings (2)
 3035 Fern ally - " " (1)
 3036 Shrub - 1 to 3 m. - flowers greenish white (2)
 3037 Shrub - 1 1/2 m. - bracts red - flowers green (2)
 3038 Shrub - 2 m. - hairs on inflorescence scarlet (2)
 3039 Common herb - flowers yellow (1)
 X 3040 Pichomanes (2)
 X 3041 " (3)
 3042 Melastomac - herb (1)
 X 3043 Scandent shrub - 3 m. - flowers deep blue (2)
 X 3044 Herb - very common (6)
 X 3045 Fern ally - Foliaris clumps in "CAATINRA" WOODS - (4)
 3046 Gesneriac - shrub - 1 1/2 m. - flowers red (1)
 3047 Sobralia - flowers white - yellow lip - fragrant (2)
 3048 Blue orchid - see diary (4)
 3049 Pak sogudi - see diary ~~(see diary)~~ (4)
 3050 Bujawak puy - see diary

Bacarikurara - Rio Para - 9/6/43

- 3051 Tree - 6 m. - flowers yellow - cauliflorous (2)
 3052 Shrub - 2 m. - flowers greenish white (1)
 3053 Tree - 10 m. (2)
 3054 Byrsonima - tree - 6 m. - "Min-gaij" tocano (2)
 3055 Shrub - flowers white - 2 m.
 3056 Bromeliad - epiphytic - basal scape bracts
 scarlet - flowers yellow (1)
 3057 Woody liana - 10 m. - Ericaceae - calyx scarlet (1)
 X 3058 Small tree - 3 m. - in clear spot in forest (3)
 3059 Bromeliad - epiphytic - scape bracts pink (1)

Peresita - Rio Papua - 8/15/43

- 3060 Herb - flowers yellow (3)
 X 3061 Bujawak puy or wawa suringa - tree -
 35 m. - see diary (6)
 3062 Mahawak puy - see diary (4)
 3063 Pak puy - see diary (5)

- 3064 Sab-a-di - see diary - sterile (3)
- 3065 OKU-KI-RANA - tree - 25m - sterile (3)
- 3066 Di-jung-wak-soguy - tree - 20m - sterile (3)
- (3067 Vine - apocynac - flowers deep yellow (4)
- X 3067-A - Herb - Common to SAND CLEARINGS - Fls. white

Piracurara - 8/18/43

- 3068 "Mac-so-ne-ne" see diary (4)

Rio Cui-cu-yu - 8/23/43

- X 3069 Shrub - or woody liana - 3m - flowers dull red (2)
- 3070 Apocynac - vine - flowers white (2)
- 3071 Tree - 12m - flowers pale yellow (2)
- 3072 Shrub - 4m - flowers pale yellow (2)
- 3073 Shrub - 1 1/2m - flowers pink (2)
- 3074 Vine - apocynac - flowers pink (1)
- 3075 Tree - 12m - flowers pale yellow (2)
- 3076 Herb - flowers white - gesneriac

NOT COLLECTED, BUT COMMON, HAS SOME SPECIES OF MARANTHA, HAVING DENSE GLOBOSE
 HEADS, VERY PRESENT IN STAGNANT WATER. - OR THALASSIA - SEE BOT. MUS. LEAF

Macu - Parana - 8/11/43

- X 3077 Liana - flowers dull orange (3)
- 3078 Melastomac - liana - flowers white (2)
- 3079 Herb - Growing on boulders with Podostemonas (3)
- 3080 Oncidium viridifolium (1)
- 3081 Herb - 1 1/4m - flowers cream - basal inflorescence (1)
- 3082 Small tree - 10m - flowers lavender (2)
- X 3083 Eriocacron? (2)
- X 3084 Shrub or small tree - 3m - flowers yellow (3)
- 3085 Epidendrum - terrestrial - flowers red - 10m (1)
- 3086 Liana - flowers yellow

Mello Franco - Brazil - 8/31/43

- 3087 Shrub - 2m - flowers red (2)
- X 3088 Vine - flowers red (2)
- 3089 Tree - 20m - flowers white (2)
- 3090 - Tree - 6m - flowers white - apocynac (2)
- X 3091 - Tree - 12m - flowers white (2)

- 3092 Herb to 1m. - flowers white (1)
- X 3093 Tree - 12m. - flowers lavender (2)
- 3094 Woody vine - flowers white (1)
- 3095 Tree - 18m. - flowers white (2)

Bacaricuara - 9/6/43

- 3096 Small tree - 4m. - apocynac - flowers pale cream; tips fused.
- 3097 Saprophyte - Puccinellaceae (1)
- 3098 Apocynac - vine - flowers deep yellow - fragrant (3)
- 3099 Bromelia - scandent shrub - 3m. (1)
- X 3100 Shrub - 1 1/2 m. - flowers pale lavender (2)
- 3101 Asclepid - flowers pink & white (1)
- 3102 Orchid - terrestrial (1)

Manfort - 8/29/43

- 3103 Epiphytic - strangler shrub "Dij-ca-we" toc (2)
- 3104 Sapotaceae - call mito - "ca-a-me" toc. - slender tree - 12m. (5) (3)
- X 3105 Pheobroma ^{possibly THEOBROMA GRANDIFLORUM - CHICANO NAT. HIST. MUS. GUATE.} tree - 4m. - sepals fleshy - petals maroon (5)
- 3106 Annona sp. - fruit with orange pulp ^{resembling} A. muricata in flower - "cat-arana-pica" toc (1)
- 3107 Spring tuberculate annonac - tree - 10m. (1) (1)
- ~~3108~~ "Guai-tu-to" (geral) "Pi-ca" toc.
- X 3108 Tree - 12m. - flowers pale lavender (3)
- 3109 Ma-ja-wak-puj - see diary - Manfort nat. (4) (3)
- 3110 Strangler tree - 15m. - flowers white with maroon centers (2)
- X 3111 Blow-gun cotton - tree - 15m. (2)
- 3112 Tree - 15m. - Barbaco ^{Fls. like Rose of Sharon - 14m. long.} (3)
- 3112-A - Tree - 20m. - fls. white.

Bacaricuara - Cuño Uba - 9/6/43

- 3113 Lepidocaryum - see diary
- 3114 Coatrecusa - see diary

Headwaters of Cuduyasi 12/6/43

3115 Orchid - terrestrial - flowers yellow

Yapoboda 12/10/43

- 3116 Bromeliaceae - pitcairnia? - fruits red - terrestrial (2)
- 3117 Shrub or small tree - 5m. - fruits redish - clusia (2)
- 3118 Aroid - epiphytic - clumps on stones (1)
- 3119 Burmanniaceae - herb - flowers violet tipped yellow (2)
- 3120 Labellaceae? - flowers blue (2)
- X 3121 Gentianaceae - flowers pale green (2)
- 3122 Utricularia - flowers pale yellow (2)
- 3123 Juncaceae - Luzula? - flowers yellow (1)
- 3124 Cassia - low shrub - 3/4m. - flowers yellow (2)
- X 3125 Droseraceae - dracera - leaves blood red (2)
- 3126 Dictostegia (Burmanniaceae) - flowers cream white (2)
- 3127 Utricularia - flowers yellow (2)
- 3128 Utricularia? - flowers pale lavender (1)
- 3129 Polygalaceae - flowers lavender (1)
- 3130 Eugenia - small tree - 2m. - flowers white (2)
- 3131 Herb - flowers yellow (2)
- 3132 Melastomac - small shrub - 4m. flowers purple (2)
- 3133 Utricularia - flowers blue - terrestrial (2)
- 3134 Utricularia - flowers yellow (2)
- 3135 Burmanniaceae - Decastylgia? - flowers blue (2)
- 3136 Lycopodium - (2)
- 3137 Herb - flowers deep blue (1)
- 3138 Sedum? - flowers greenish yellow (1)
- 3139 Shrub - 2m. (2)
- X 3140 Bysonima - tree - 3m. - flowers yellow (2)
- X 3141 Allibertia? - Rubiaceae - shrub - 1/2m. - flowers white (3)
- 3142 Aclepiadaceae - herb - flowers green (2)
- 3143 Melastomac - flowers deep purple - small tree - 2m. (2)
- 3144 Loranthaceae - 1/2m. - on Bysonima (2)
- X 3145 Small tree - flowers red - 2m. (2)
- 3146 Lecythidaceae - tree - 30m. - flowers pink (3)
- 3147 Herb (2)
- 3148 Herb (2)

3149 Eriocaulaceae (2)
X 3150 Herb (2)

Rio Cubiyu - 12/8/43

3151 Ravenala Guianensis - see diary (1)
Mapaboda - 12/10/43

3152 Hevea - shrub or small tree - 3m - flowers yellowish white (6)

3153 Gesneriac - flowers lavender - sandstone crevices (1)

3154 Apocynac - flowers white to pink (2)

3155 Melastomac - low flattened shrub - 1/2m - flowers orange (2)

3156 Sobralia decora - see diary (2)
Cabeceras del Cuduyari - 11/26/43

3157 Woody liana - flowers white (3)

X 3158 Meliaceae? - tree - 25m - flowers white (2)

X 3159 Cassia - tree to 12m - flowers yellow (2)

3160 Pnee - 20m - flowers orange (2)

3161 Legume - tree - 25m - flowers rose pink - calyx reddish brown (3)

Yupupari Falls - 11/10/43

3162 Apocynac - vine - flowers deep yellow (2)

3163 Apocynac - shrub - 1 1/2m - flowers pink (2)

3164 Composite - shrub - 2 1/4m - flowers yellow - fragrant (2)

3165 Grass - elevated trunks (1)

3166 Aeclepiad - vine - flowers pink & white (2)

X 3167 Small tree - 3m - flowers deep dull purple (1)

X 3168 Herb - flowers yellow (2)

3169 Eriocaulon - flowers white (2)

X 3170 Bignoniaceae - small tree - 3m - flowers white (2)

3171 Small tree - 6m - flowers rose pink - melastomac (2)

3172 Melastomac - herb - stems red - flowers deep lavender (2)

3173 Pnee - 10m - flowers pink (2)
Cabeceras del Cuduyari - 11/26/43

3174 Scandent shrub - 4m - flowers white - fragrant (3)

3175 Pnee - 15m - Lauraceae - flowers greenish yellow (2)

3176 Pnee - 25m - Andisa? - flowers lilac (2)

- 3177 Tree - 12 M. - flowers pink (1)
- X 3178 Cultivated shrub - barbasco - flowers white (2)
- 3179 Woody liana - flowers pink (2)
- 3180 Cyclanthus - epiphytic - flowers pink (1)
- 3181 Bignoniac - riverside tree - 8 M. - flowers yellow (1)
- X 3182 Genipa? - tree to 15 M. - flowers white ageing tan (2)
- X 3183 Tree - 25 to 30 M. - stamens pink - "Cun-cun" (cubes).
fruits used for barbasco
- Yapoboda - 12/10/43
- 3184 Eriocaulon (2)
- 3185 Melastomac - shrub - 1 1/2 M. - fruits pink (2)
- X 3186 Melastomac - woody herb - 9 M. - flowers pink (2)
- X 3187 Shrub - 1 1/2 M. - flowers white - fruits red (2)
- 3188 Small tree - 6 M. - probably same as # (2)
- 3189 Melastomac - spreading shrub - 1 M. - fruits
pink - probably same as # 3155 (2)
- X 3190 Bombac - flowers cream - shrub 2 M. (2)
- X 3191 Lycopodium - creeping plant in open savanna (2)
- 3192 Eriocaulon? - flowers white (2)
- 3193 Shrub - 3/4 M. Melastomac - flowers pink (2)
- X 3194 Shrub - 1 1/2 M. - witches broom - flowers yellow (2)
- 3195 Juncaceae - flowers yellow (2)
- 3196 Dilleniaceae - shrub - 1 M. - fruits red (2)
- 3197 Byrsonima - flowers yellow - woody herb - 1/2 M. (2)
- 3198 Sub-shrub - fruits orange - 1/2 M. (2)
- 3199 Eriocaulaceae (2)
- 3200 Pernettyaceae shrub - 2 M. - fruits yellow (2)
- X 3201 Juncaceae - flowers yellow (2)
- X 3202 Juncaceae - flowers yellow (2)
- 3203 Orchid - terrestrial - flowers yellow (2)
- 3204 Catasetum? - flowers green (1)
- X 3205 Very handsome - blue flowered herb. (4)
- 3206 Herb - flowers green (2)
- 3207 Juncaceae - attacked by orange fungus (2)
- 3208 Eriocaulon - 1 to 1 1/2 M. (2)

X 3209 - A - ^{Herb - fls. yellow} Yuzupari - 11/10/43

3209 Apocynae - vine - flowers yellow (2)

X 3210 Bignoniaceae - liana - flowers white (2)

3211 Eriocaulaceae - flowers white (2)

3212 Eriocaulaceae - flowers white (2)

3213 Eriocaulaceae - flowers white (2)

X 3214 Podostemonaceae - flowers white (2)

X 3215 Podostemonaceae - flower stems pink - stamens white (2)

Labeceras del Cuduyari - 12/10/43

3216 Legume - trees - 30 M. - flowers white stamens red (2)

X 3217 Rce - 6 M. - flowers white - calyx pink (4)

Rubiaceae

Yapoboda 12/10/43

3218 Herb - flowers red (2)

X 3219 Sedge (3)

3220 Navia? Bromeliaceae - Rocks of Casa del Gallo (2)

3221 Navia - same location as above (2)

3222 Epidendrum - flowers rose pink (3)

3223 Bromeliad - navia? - forms branching colonial (3)

shrubby clumps - flowers white (1)

3224 White subsalia - pleasant fragrance (1)

3225 Legume - woody liana - flowers lavender (2)

3226 Shrub or small tree - 3 M. - flowers white (2)

X 3227 Morantia - shrub - 2 M. - flowers greenish white (2)

3228 Calliandra - flowers maroon - shrub 1 1/2 M. (2)

3229 Loranthaceae (2)

3230 Small tree - 4 M. (2)

3231 Annonaceae - tree - 5 M. - flowers greenish (2)

X 3232 Rce - 5 M. - flowers white (2)

3233 Piliciera? tree - 3 M. - flowers pink (1)

3234 Rce - 4 M. - flowers old rose Fabaceae (2)

3235 Herb - flowers lavender (2)

3236 Shrub - compositae - 3 M. - flowers lavender (2)

3237 Amaryllidaceae - shrub - branched - 1 1/2 M. - (2)

flowers white

3238 Asclepiad - flowers greenish (2)

- 3239 Asclepiad - Flowers greenish tan
- 3240 Epidendrum L. & P. reddish tan - lip white
leaves reddish.
- X 3241 Small tree - 3m - flowers yellow
- 3242 Small tree - 3m
- 3243 Tree - 4m - flowers greenish yellow
- X 3244 Phyllanthus - shrub or small tree - 2m
- 3245 Shrub - 1m - flowers pink
- 3246 Asclepiad - vine - petals blue green - center dull
maroon.
- X 3247 Vine - river bank - flowers pink
Cab. Cubique - 12/8/43
- 3248 Vochysia - tree - 12m - flowers orange - inflorescence erect
- X 3249 Shrub or small tree - 3m - bristled - flowers
bright yellow
- 3250 Bignoniaceae - liana - flowers white
- 3251 Pourouma - tree - 20m - river bank
Munipau - 11/10/43
- 3252 Artocaryum acule - see diary

Rio Cuoyari - 1/20/44 Vrop -

- X 3253 Liana - flowers red
- 3254 Tree - 25m - flowers pale green
- 3255 Acaulescent or stemless palm - Madonia - 9 like flowers -
Ivire Kisoro -
- X 3256 Liana - flowers greenish white
- 3257 Bignoniaceae - flowers pale tan - reticulated deep maroon -
labellum fringed
- 3258 Bulbophyllum? - flowers tan spotted brown
- 3259 Rubiaceae - woody herb - flowers calyx orange,
corolla bright yellow.

Rio Cuoyari - "Yapoboda" 1/23/44 -

- 3260 Small tree - 3m - milky juice - fruits edible
- 3261 Small tree - 2m - flowers tan
- X 3262 Bombax - small tree - 1 1/2 m.

- 3263 Small tree - 1 1/2 m. - flowers pink (2)
- 3264 Shrub - 1/2 m - flowers red (1)
- 3265 *Penstemon* - small tree - 3 m (1)
- 3266 Small tree - 4 m - fruits purple black (3)
- 3267 Shrub - 1 m (3)
- 3268 *Maripa?* or *Pithecolobium* - flowers white (1)
- 3269 Small tree - 3 m - flowers yellow (4)
- 3270 Herb - flowers greenish yellow (1)
- 3271 *Apocynaceae* - small tree: 1 1/2 to 2 m - flowers white (4)
- 3272 Small tree - 2 m - fruits red brown (3)
- 3273 *Violaceae* - shrub - 1 1/2 m - flowers white (2)
- 3274 *Cryptopodium* - flowers dull yellow (1)
- 3275 Tree - 4 m - flowers white (3)
- 3276 *Peristrial* orchid - flowers rose purple (2)
- 3277 Palm - *Syagrus?* - Snake trunk - 2 - 4 m - Fruiting clusters
inter-foliarious - pinnate - leaves pinnate - About 6-8 (2)

3278 in specimens book -
 78 - *MURCIA* - Snake trunk - nodding 6-8 m. Fls (1)
 very large for the species - nodding - 6-8 flowers -

YURUPARI - 2/20/44 -

- 3279 79 - Sapote - to 2 1/2 m (2)
- 3280 80 - Herbs - fls. orange (1)
- 3281 81 - Shrub (4)
- 3282 82 - Grass (5)
- 3283 83 - *Leguminosae* - woody herb - 1 m. fls. red (3)

Rio Quinari - 2/16/44

3284 84 - Flowers pinkish white - *Halimolobos?* (1)

284 - A - *Renealmia* - growing in heavy forest

Rio Quersai 2/16/44

3285 - ³²⁸⁵ Gesneriac - growing in termite nests - flowers pale pink (1)

~~3286~~ ³²⁸⁶ Mapaloda - 12/10/43

3286 - ³²⁸⁶ Pitticularia - flowers white (1)

3287 - ³²⁸⁷ Juncaceae - flowers yellow (1)

3288 - ³²⁸⁸ Muscipari - 2/20/44 Herb - flowers yellow (1)

Rio Quersai 2/10/1944

3289 - ³²⁸⁹ (1) Bad rubber - slender trees to 30 M tall - trunks cylindrical - latex yellowish drying pale yellow - bark grey slightly flaking - inner bark yellowish - leaves horizontal - with greenish white undersurfaces (1)

3290 - ³²⁹⁰ (2) Good rubber - trunks cylindrical - 30 M tall - bark brownish grey - slightly flaking - inner bark reddish brown - latex pale yellow drying bright yellow - stems

Rio Pisaboton 2/12/44

3291 - ³²⁹¹ (3) Very good rubber - tree 25 M tall - trunk cylindrical - bark grey slightly flaking - inner bark reddish brown - latex of lower trunk pale yellow of branches bright yellow - leaves erect with whitish undersurfaces - prominent scaly terminal bud.

3292 - ³²⁹² (4) Trunk as in (3291) - bark very hard with sandy texture - grey slightly scaling outer bark - inner bark pale tan.

Rio Napes 2/19/44 - Circasia

3293 - ³²⁹³ (5) Bad rubber - slender tree - 20 M tall - latex white drying yellow - leaflets reclinate - green on lower surfaces.

Rio Napes 2/20/44 Muscipari

3294 - ³²⁹⁴ (6) Tree 20 M tall - good rubber - latex white drying neat white - leaves horizontal - juvenile leaves with lavender undersurfaces.

3295 - ³²⁹⁵ (7) Tall tree 30 M - leaflets erect - whitish on lower surfaces - rubber good Latex pale yellow

3296 - ³²⁹⁶ (8) Leaflets erect - tree 30 M - rubber good. latex yellow

3297 - ³²⁹⁷ (9) - Latex bright yellow - good rubber - new leaves flacid red - juvenile leaves very large - mature leaves much smaller - leaves semi-erect flowers yellow

Rapid Rio Bacuraba 11/4/44

- 3321. Acepoid vine flowers dull yellowish green
- X 3322. Sedge -
- 3323. Small tree 3 M flowers pale pink
- 3324 - Small tree 4 M flowers pale yellow
- 3325 - Orchid - flowers pale pink.

Villarica 1/2/45

- 3326 - Tree - 10 M - flowers white - legume
- X 3327 - Herb - flowers blue
- X 3328 - Euphorbia - 15 m - flowers scarlet
- X 3329³³²⁹ - Shrub - 1 1/2 m - acanthaceae - flowers white
- X 3330³³³⁰ - Convolvulaceae - vine - flowers purple
- X 3331³³³¹ - Jacaranda - flowers blue purple
- X 3332³³³² - Composite - shrub - 1 1/2 m.
- X 3333³³³³ - Cassia - shrub - 2 m.

Rio Vayas - vicinity of MITO - 2/6/45

- 3334 - ^{10 ft.} SHRUB - MELASTOMACEAE - COMMON TO SEASONALLY FLOODED MARCHES OF CLAYMANS - flowers white -

Rio Vayas - vicinity of MITO - 2/24/45

- 3335³³³⁵ - Bromeliad - Epiphytic - basal scape 100 cm
- 3336³³³⁶ - Passiflora - vine climbing rocky - fls. scarlet -
- 3337³³³⁷ - HEVEA - TREE - 20 M - RIVER BANK - latex pale yellow - quality very poor - leaves nearly horizontal. Curious development of 4 carpels in single fruiting branch - under surfaces of leaves white when new twigs red -

- 3338³³³⁸ - HEVEA - TREE - 20 M - latex pure white - quality weak - leaves nearly horizontal - under surfaces whiteish -

3298 - (10) Bad rubber - growing in mistizales - Tree 20 M tall
latex yellow - leaves serrate - rubber very bad

NOTES TO HARE SENT WOODSON 4/21/46

(NOTE - All HARA material HAS BEEN SENT TO
PH. ROLLER FROM BUSHES FOR ANALYSIS)

Rio Cuduyasi 8/15/44

- 3299 - *Acacalia cyanea?* (1)
- X 3300 - Tree - legume - flowers yellow - 20 M (1)
- 3301 - *SCYTICARIA SPECIES* - Orchid - flowers very fragrant (1)
- X 3302 - Legume - forming thickets along stream banks - flowers white (1)
- 3303 - Tree - 20 M - flowers pinkish white (1)
- 3304 - Small tree or shrub along stream banks - flowers green (1) Dish
- ~~3305~~ (Bacuraba rapido) Rio Napos (~~Guaranafino~~) 12/8/44
- 3305 - Bromeliad ~~acid~~ - spathe dull purple (2)
- X 3306 - Cassia - tree - 15 M - flowers bright yellow (1)
- 3307 - Clusia - tree 5 M - flowers pink (1)
- X 3308 - Tree 20 M - flowers white (1)
- 3309 - *Melastomac* - growing on boulders - flowers pink (1)
- X 3310 - Composit - shrub - 1 M - flowers white (1)
- 3311 - *Sabralia* - 2 M - flowers white throat yellow (1)
- 3312 - Small tree - 4 M - flowers white (2)
- 3313 - Apocynac - vine inflorescences pendant
bracts pure white - flowers yellow with pink centers (3)
- 3314 - Epiphytic acid. (3)
- 3315 - *Hicis* - tree 15 M (1)
- 3316 - Apocynac - 10 M - flowers white (1)
- 3317 - *Burserima?* - flowers pink - 8 M (1) COMMON TO
PARANAPICHUNA
- 3318 - Small tree - 6 M (1)
- X 3319 - Bromeliad epiphytic (1)
- 3320 Rio Paranapichuna 12/8/44
- X 3320 - Herb - flowers yellow

- 3339 - PASSIFLORA - FLs. SCARLET - (5)
- 3340 - PASSIFLORA - FLs. LAVENDER - (5)
- 3341 - STYCHNOS - HUGE LIANA, COMMON TO RIVER BANKS - FLs. WHITE - FRUITS YELLOW - (5)
- 3342 - TREE - 30 M - FLs. PINK - (5)

NOTES SENT WOODSON TO HALL 4/24/46

VICINITY OF MITO - YAUYES - MARCH 4, 1945
(with Pedro Lopez)

- 343 - TITIMUSOPS sp - TALL TREE - 30 M - CALLED LOCALLY "MABARANDORA" (10)
- 344 - LOCUMA - TREE - 25 M - STRIKE - CALLED "ABIU - RANA" (5)
- 345 - TREE - 25 M - CALLED "TURUBI" (5)

VICINITY OF MITO - YAUYES - 3/21/45

- 346 - TREE - 20 M - SPALS & PARTS BLUE - LAMINATED ROSE PINK - LAMINATE - FRAGRANT - TREES MOST FREQUENT IN LOW - POORLY DRAINAGE AREAS - (5)
- 347 - VOCHYSIA - TREE - 30 M - FLOWERS SPARKLE - MOST FREQUENT ON SLIGHTLY ELEVATED LAND - IN COLONIES - (5)

Oct. 13, 1945

Villaricencio - Road to Restrepo
5000 m.

³³⁴⁸ 3348 Small tree - 6 m - Melastomaceae - flowers (6)

³³⁴⁹ 3349 rose pink
Gesneriac - corolla tube - salmon red. (3)

³³⁵⁰ 3350 corolla lobes green.
Gesneriac - flowers cream white - on steep road side banks. (2)

³³⁵¹ 3351 Lycopodium (P)

Oct. 21, 1945

^{SERRANIA} ~~SERRANIA~~ ^{Serrania} south of San Martin - Dept. de Meta

²³⁵² 500 m.

²³⁵² 3352 Palm - common in forest patches - trunk solitary ringed - 4 to 5 in in diameter - unarmored - average 6 to 10 m. height - having 8 to 10 live fronds with no crown shafts - fronds erect with monopantal tips - basal fronds often drooping - spathe 2 to 4 infra-foliarious erect or semi-erect, in flower usually pendant in fruit. Flowers straw yellow, fragrant. (Previously seen Apolobata area alto Cuduyasi) (1)

³³⁵³ 3353 Tree - Lauraceae - 15 m - flowers pale (5)

³³⁵⁴ 3354 ^{yellow} Gentianaceae - flowers pale green to white (1)

³³⁵⁵ 3355 Zamia (all specimens seem caulescent) (2)

Oct. 23, 1945

Road to San Martin near the Rio Ocoa

- *3356 *Brassicaceae* - flowers cream white - ^{common} ~~common~~
- to road side banks.
- 3357 *Bactris* - 12 to 15 ~~ft.~~ ^{to} ft. dense clumps up to
40 canes averaging 5 to 6 fronds each.
- 3358 *Bactris* - average 5 m. dense clumps from
10 to 40 canes 1 1/2 in. diameter with 5 to 7
fronds.
- *3359 *Melastomaceae* - flowers pink - ^{side herb} ~~common~~ ^{herb} road side
- *3360 *Isia fusca* - tall herb up to 2 m ^{road} in road
side ^{herb} - flowers pale yellow.
- 3361 *Piliaceae* - tree up to 20 m. - flowers white
- *3362 *Marsipposiphia* - small tree to 5 m. - ^{scarlet} ~~fracts~~ ^{scarlet}
~~common~~.
- *3363 *Nochysia* - tree to 25 m. - flowers orange.
- ~~3364~~

Nov. 20, 1945
Abiu Igatape - COMISSARIA DO VAUPE'S - REGION EAST
OF MITU -

- 3364 - *Acacalis* - sepals + petals blue - labellum lavender
- 3365 - *Passiflora* - flowers scarlet.
- 3366 - Tree - 35 M - flowers yellow - frequent in forest.
- 3367 - Tree - 25 M - flowers orange + legume.
- X 3368 - *Pecoma* - tree - 6 M - flowers yellow.
- 3369 - Liana - apocynac - flowers yellow.
- ~~3370~~

Nov. 21 - 1945
GUARACAPURI CACHOEIRA, RIO VAUPE'S - REGION EAST OF
MITU -

- X 3370 - *Strychnos* - liana - flowers cream yellow
- 3371 - *Morantea* - epiphytic shrub - nectaries scarlet
- X 3372 - Sedge - common to upper river (seen in great
quantity in upper *Curicupu* AND *MACU - PARANA*)
- 3373 - Tree - 20 M - flowers green
- X 3374 - Legume - tree - flowers lavender - forming stunted
trees - 2 M. - on granite near cachoeiras - trees
to 5-6 M. in marginal forest.
- 3375 - Tree - 20 M. - flowers white.
- X 3376 - Tree - 30 M - flowers white.
- X 3377 - Tree - 25 M. - flowers pink.
- 3378 - Liana - legume - flowers dill purple.
- 3379 - Legume - tree - 10 M. - flowers bright pink.
- X 3380 - *Melastomac* - tree - 6 M. - flowers white
- 3381 - Liana - flowers white.
- 3382 - *Malpigi* - liana - flowers yellow
- 3383 - Small tree - 6 M. - flowers white - frequent on
flooded river margins.
- 3384 - *Myrsicaceae* - small tree - 6 M. - flowers white
fairly frequent on flooded river margins.
- 3385 - Tree - 15 M. - flowers purple
- 3385 - *A. BIFRANCA* - Epiphytic - (1)

3386 ³³⁸⁶ Jaschflora - flowers blue

~~3387~~ - Nov. 20 - 1945

Abiyw Igarape -

3387 ³³⁸⁷ Epocynae - small tree - thickly set in
rebbalsas - 5 to 6 m. lower trunk swollen - flowers
white - common in lower course of stream.

~~3388~~ - Nov. 18 - 1945

Bacusaba' - CACHOEIRA, RIO VAUPES. REGION

S-E of MITO - 200 FT.

3388 ³³⁸⁸ - Small tree - in heavy forest - 10 m. - flowers white

3389 ³³⁸⁹ - Legume tree ^{60 FT.} common to river front - flowers
yellow - foliage greyish.

3390 ³³⁹⁰ Legume - Swartzia? - tree - 25 m. - flowers
pale pink - fairly frequent to river front.

~~3391~~

Nov. 12 - 1945

Nearby of ^{CACHOEIRA} Ciscica - Vaupes 250 FT.

3391 ³³⁹¹ Gentianaceae - flowers blue - in heavy forest.

~~3392~~

Nov. 8 - 1945

Misaflores - Vaupes - 300 FT.

3392 ³³⁹² Rubiac - shrub or small tree - 8 m - flowers yellow

3393 ³³⁹³ - Epididymus pusillum - flowers yellow

3394 ³³⁹⁴ - tree - 20 m - legume - common - flowers white

Nov. 11 - 1945

YORUPI TANTS, RIO VAUPES.

³³⁹⁵

X3395 - TREE - TO 10 M - FB. BRIGHT YELLOW -

Nov. 18 - 1945

Bacusaba - Vaupes

3396 ³³⁹⁶ Plumeria - ~~10 m~~ - flowers white - tree
6 to 8 m. - fairly frequent near cachoeiras

3397 ³³⁹⁷ - Epocynae - vine - flowers pale yellow

3398 ³³⁹⁸ - Epocynae - vine - inflorescence pendant - calyx
lobes yellow - inner tube pink - bracts white.

- 3399 *Dioscorea* - flowers dull purple
- 3400 Small tree - 10 M. - flowers green
- 3401 Spreading tree - 10 M. - flowers pink - fragrant - fairly common on granite overhanging rapids
- 3402 *Cestria* - shrub - 2 M. - flowers yellow - fragrant
- 3403 *Gentiana* - flowers pale green - common ON GRANITE OUTCROPS

Nov - 21 - 1945

Parubon - ~~Parubon~~ CACTOEIRA - Region S-E of MITO - Rio VAJES - NOV. 21 - 1945

3404 - Tree - 20 M. - on rocks above rapids - flowers ^{white} Villavicencio - Dec. 2. 1945

*3405 - Composite - ~~thick~~ woody herb - 1 1/2 M. - flowers pink.

3406 - *Clerodendron* - ^{SCANDENT HERB} ~~herb~~ - flowers pink

3407 - *Asclepiad* - flowers white - vine

RIO META - VICINITY OF REMOKINO - AUG. 18, 1945

3407-A - *Roystonea* - TREES TO 25 METERS, AS ISOLATED SPECIMENS, OR IN GROVES, GROWN IN INTERMIXED WITH SAPIUM. 12-16 LIVE FRONDS, CARRIED HORIZONTALLY, WITH DRACONIT TYPE. TRUNK CYLINDRICAL, WHITE, OBSCURELY RINGED 20 TO 24 RINGS IN DIAMETER AT BROAD BASE. CROWN START ABOUT 2 METERS - INFLORESCENCES 2-3 - INFLORESCENCES AT 45° ASCENDING ANGLE - STRANDS UNDOUBT. FRUITS BLACK -

3 1/2 to 4%
MATURE LEAF
WITH 200-
230 FRUITS.

NOTES copied to HBS
11/9/46

Plants

of

Panama

El Valle de Antón 1000 m.
 March 16, 1946
 North Side

- 3408 - Palm - 4 m - averaging 5 fronds - trunk
 about 4 m. in diameter (1)
- 3409 - Small tree - 2 m - flowers white. (2)
- 3410 - Shrub - Cestrum - flowers yellow - 1 1/2 m. (4)
- 3411 - Columnnea - epiphytic shrub -
 1/2 m - flowers yellow - underside of
 leaves dark red. (4)
- 3412 - Columnnea - flowers red epiphytic (11)
- 3413 - *Syniphenia, glaberrima* -
 2 m - guttiferous & yellow
 latex - flowers dark red - ~~Platanus?~~ (4)
- 3414 - Epiphytic shrub - 2 m. Labiaceae -
 flowers purple. (5)
- 3415 - *Canavalia* - epiphytic shrub -
 2 m - calyx red - corolla tube white (8)
- 3416 - Plant ~~with~~ - flowers ~~white~~ (3)
- 3417 - Tree - 30 m - (4)
- 3418 - Tree - 30 m - flowers pink (4)
- 3419 - Tree - 25 m - flowers pink (5)
- 3420 - *Lonchocarpus* - flowers yellow (1)
- 3421 - Rubiaceae - epiphytic herb - (1)
- 3422 - Orchid - flowers white. *Platanus* minor (1)
- 3423 - *Schefflera* - epiphytic shrub - 1 m (4)
- 3424 - *Onocidium* - flowers yellow (1)
- 3425 - *Bignoniad* - (1)
- 3426 - Tree - *Calocarpum* *flavescens*? - 30 m
 flowers white - NOT VIRIDE - NOT ~~...~~ (4)

(19 numbers) (74 sheets) (5 Squabs - etc.)

VICINITY OF PIÑA, HILLS BORDERING BAYUN LAKE - 20 M -
4-7-46

- 3427 - *Nicotiana* - flowers dull purple - (2
3428 - Woody liana - flowers lavender - growing
in tops of large trees -
3429 - Tree - 130 M - flowers tan
3430 - *Geonoma* - single trunk - 2 1/2 in in
diameter - 3 M tall. BIVERTIA
3431 - *Passiflora vitifolia* - vine - scarlet
flowers
3432 - *Combretum* ^{COCCINUM} - large woody vine - flowers
red

Swamps bordering Rio Chiquero
Vicinity of Post San Lorenzo - 0 M.

- 3433 - *Saurauha* - (mangroviaceae) - woody
liana - bracts orange -

VICINITY OF CERRO JEFE - RANGE BACK OF
PASORA - 600 M - 4-23-46

SULLOBIUM ^{SP. NOVA} FILE 901 SW 1/4

- 3434 - *ENTEROLOBIUM* - TREES AVERAGING 25 METERS -
Flowers sessile, white. CALLED "EUA BINO".
3435 - *GEONOMA* - AVERAGE 2 1/2 M - 12-15. Flowers
trunks solitary - 1-1 1/4" diam. INFLORESCENCES
pendent. Common - seen in 2-37471 trees
3436 - *TERMINALIA* ^{CHIRIQUENSIS} - TREES AVERAGING 25 METERS -
CHARA ^{JANTHUS} STAMIN. L. WUS.
3437 - *SAURAUHA* ? - TREES - TO 20 M. Flowers
white - FRAGRANT

Symphonia strobilifera L.F.

3438 - ~~Rhizophora~~ - TREES AVERAGING 20 M.
Growing in periodically flooded margin of
Swamp.

3439 - LAURACEAE. Small TREES - 10 M -

3440 - BACTRIS - STROBILIFEROUS - 3-4 CANES - 1 1/2"
DIAMETER - 40-50 M tall. Spines on CANES
in whorls 5" apart. Crowns of 5-6 live
FRONDS - seems closest to *B. divisioides*

VICINITY OF PACORA - 25 M. Flowered
in the collection of BRANAM Fideleiro
5/9/46

3441 - ONCIDIUM PANAMENSE? - Spikes, bracts & sheath of
Sepals, petals & labellum of
3442 - ONCIDIUM - PLANTS IDENTICAL WITH O. PANAMENSE
Flowers similarly colored, but different in form

VICINITY OF SAN CARLOS - 100 M. Flowered
in the collection of MR. HARRY BURN. 4/20/46

3443 - EPIDENDRUM ATRORUBRUM ^{wild.} VARIETY WITH DEEP
dark purple Spikes & bracts & very deep unmarked
Rose labellum. Pickle -

VICINITY OF TAMBOA, CANAL ZONE - 100 M.
5/13/46

3444 - ORCHID - EPiphytic - Flowers white
Stenopogon or *MIL RANTHUM* (Lindl.) Polak

VICINITY OF PACORA - PROV. OF PANAMA - ABOUT
0 - 20 MI. 5/12/46

- 3445 - TREE - 6 MI. - FLOWSY HEARTS RED - (7)
3446 - FIG - LARGE SPREADING TREE ^{20M} FRUIT LIKE FIG - (17)
SWAMPY NEAR COAST -
3447 - BANISTERIA ^{LAUREL FOLIA L.} - LEAVES WOOLLY - FLS. YELLOW - (12)
3448 - SHRUB - 3 MI. - FLS. WHITE - (13)
3449 - LIME - FLS. WHITE - FRAGRANT - (15)
3450 - COCCULUBA - TREE OR SCANDENT TREE - 10 MI.
FLS. RED - SHEDS THICK REDDISH OIL
ON THE TREES LEAVES STRONG SMELL. (11)
3451 - TREE - 20 MI. - SAPINDACEAE - FRUITS RED - (10)
3452 - RUBIACEAE - SHRUB - 1/2 MI. - ON BOULDERS IN STREAM
BUDS - FLOWERS WHITE - LINDAIA RIVAS BERRA. (10)
3453 - TREE - 10 MI. - FLOWERS WHITE - (12)
3454 - CHOCIA - TREE - 15 MI. - (9)
3455 - CORDIA - FLOWERS TINY (2 MM) YELLOW - FRUITS RED
UNCONSPICUOUS. (5)
3456 - CATAPUTUM VIRIDI FLAVUM - STAMENS FLS. (1)

HAND DEL VOLCAN - PROVINCE OF CHIRIQUI
1500 - 1600 MI. 5/27/46 WITH Dr. B. FAIRCHILD

- 3457 - ELLANTHUS - ON BANKS OF VOLCANIC RIVER
BOULDERS - FLS. YELLOW - (10)
3458 - TREE - 6 MI. - FLS. YELLOW - (10)
3459 - PERUVIA CORIADA - FLS. WHITE - (8)
3460 - ERICACEAE - SHADE OR SMALL TREE - 4 MI. FLS.
WHITE - (6)
3461 - SHrub - 1 1/2 MI. (8)
3462 - ERICACEAE - SHRUB - 2 MI. FLS. PINK. (5)
3463 - ERICACEAE - SHrub - 3 MI. BRACTS PINK.
COROLLA TUBULAR PINK - COROLLA LOBES WHITE. (10)

- 3464 - QUERCUS - 10 m. IN ROCKY HILLS (15)
- 3465 - QUERCUS - TREE - 20 m. (6)
- 3466 - TREE - 15 m. ANACARDIACEAE? - SCALING (10)
- 3467 - QUERCUS - 20 m. IN ROCKY HILLS - (9)
- 3468 - ALNUS - TREE - TO 25 m. SCATTERED, BUT
FORMING NEARLY PURE STANDS ^{ON SLOPES} AT HEAD OF
RIVER - 2500 m. (17)
- 3469 - SHRUB - 3 m. VIBURNUM? - FL. PINK - (3)
- 3470 - SHRUB - 2 m. FL. LAVENDER - (6)
- 3471 - SHRUB OR SMALL TREE - VIBURNUM? - 4 m.
FL. WHITE - (5)
- 3472 - SOBRALIA - ON BOULDERS - 8-9 ft. WHITE - LIP
YELLOW - WITH ORANGE LINES (3)
- 3473 - SOBRALIA - ON VERTICAL ASH & MAVEL BANKS
8-9 ft. WHITE - LIP YELLOW (2)

Cerro Punta - Chiriqui Province
HEADWATERS OF RIO CHIRIQUI VIEJO -
2000 m. 5/28/46

- 3474 - ERYTHRINA CHIRIQUENSIS - TREE - 25 m.
FL. RED - SEE WOOD SAMPLE - (5) (5)

VICINITY OF CONCEPCION, CHIRIQUI PROVINCE
100 m. 5/29/46 WITH G. B. FAIRCHILD

- 3475 - SAPIUM - TREE - 10 m. (15) (15)

VICINITY OF PENSAJOS - CHIRIQUI PROVINCE
100 m. 5/30/46 WITH G. B. FAIRCHILD

- 3476 - TREE - LEGUMINOSAE - 20 m. F. SCHWEINIA (5)
- 3477 - TREE - 15 m. CELASTRACEAE - (8)
- 3478 - BRANCHIA - EPHYPIA - NEW LEAVES RED - FL. BLUE (4) (4)

Cerro Punta - Chiriqui Province - 5/24/46
2000 m. with A. D. B. Fairchild

- 3479 - EPIDENDRUM - CANES TO 1 m. Fls. GREEN - (1)
3480 - STAKIS - Fls. RED-BROWN - (1)
3481 - Pleurothallis - Fls. MAROON - (1)
3482 - OCOTEA - TREE - 30 m. (15)
3483 - MELASTOMACEAE - SMALL TREE - 4 m. Fls. WHITE (13)
3484 - BEYONIA - 75 cm. Fls. WHITE - (17)
3485 - ARDISIA - TREE - 15 m. Fls. PINK - (12)
3486 - NETTLE - 7 m. Fls. ORANGE - (1)
3487 - ISEPTIA - SMALL TREE - 3 m. Fls. PURPLE - (10)
3488 - EPIDENDRUM FERN - (2)
3489 - SAKOB - 75 cm. Fls. RED - (4)
3490 - LAURACEAE - TREE - 30 m. (4)
3491 - QUORACEAE ^{cojuyuyis} - TREE - 30 m. (8)
3492 - MIMANTACEAE - TREE - 12 m. Fls. PALE GREEN -
NEVER EXPANDING - WITH NOODLING, SEMI - CRYPTIC FORM (11)
3493 - LECHEMARTIA - Fls. yellow - with RED-BROWN
SPOTS - (1)
3494 - ERICACEAE - EPIDENDRUM SHADE - 2 m. Fruits purple - (7)
3495 - RUBUS - 4 m. Fruits BLACK (3)
3496 - QUORACEAE - TREE - 30 m. (39)
3497 - MELASTOMACEAE - TREE - 15 m. Fls. purple - (18)
3498 - ASCLEPIAD - VINE - Fls. GREEN (6)
3499 - LEAUME - VINE - 0.4 m. (1)

Llano del Volcan - 1500 m. 5/27/46
with A. D. B. Fairchild

- 3500 - CLUSIA - TREE - 8 m. EDGE OF BARRANCO - (7)
3501 - TREE - 6 m. Fls. WHITE - CHELARA? LAMINA (10)
3502 - LECHEMARTIA - Fls. yellow - spots RED-BROWN - (3)
3503 - CLUSIA - TREE - 6 m. Common on low
ASSOCIATED WITH CHELARA LAMINA - (7)
3504 - MAXILLARIA - Fls. TAN - (1)

Cerro Punta - 2000 m. Chiriqui Province
Headwaters of the Rio Chiriqui Viejo -
In company with Graham Fairchild - 5/25/46
ABROSCENS SIMO.

- 3505 - FUCHSIA - SHRUB OR SMALL TREE - 4 m.
Fls. Purple - (29)
- 3506 - PASSIFLORA - VINE - BRACTS BRIGHT PINK
Fls. Pale Green - (3)
- 3507 - TREE - 10 m. Fls. Greenish Tan. (10)
- 3508 - LAURACEAE - TREE - 30 m. (15)
- 3509 - SOLANUM - Herb - 50 cm. Fls. Tan. (5)
- 3510 - NOLANEA - Epiphytic shrub - NECTARIES RED.
Fls. TAN - Pollinated by hummingbirds - (8)

VICINITY OF PENONIAS - Chiriqui Province
100 m. 5/30/46 - with Graham Fairchild

- 3511 - BRASSICACEAE NODOSA - Fls. white - (1)
- 3512 - CATASETUM ^{ORCHIDACEAE} ~~TRICOLORUM~~ - Fls. Tan
GREENISH TAN SPOTTED TAN - BRACTS TAN
Red - brown - spotted greenish tan (2)
- 3513 - STENORRHYNCHUS ORCHIOIDES L.C. RICH.
Terrestrial - Fragrant in small colonies along
Highway - Scape of salmon pink fls. without
leaves. (3)

Llano del Volcan - 1500 m. 5/27/46
with Graham Fairchild

- 3514 - EPIDENDRUM - LATICLABRE Lindb. Fls. Green - (2)
- 3515 - EPIDENDRUM PARKERSONIANUM Hook. (Folium ?)
Plants persistent - S. & P. pale greenish yellow
labellum white - (13)
- 3516 - Pleurothallis - Fls. Dark Red - (1)

Cerro Punta - 5/24/46 - 2000 m ^{with Graham}
Fairchild ^{2500m}

Calamita

- 3517 - TRANSIENT ORCHID - FLS. WHITE - ~~TRANSIENT~~ (1)
- ~~PODOPHYLLACEAE ? MEXICANA~~
- 3518 - DIPSACACEAE - Epiphytic colonial herb -
50 cm, FLS. pale green - spotted red - (10)
- 3519 - CENTROPYCHIA - Herb - 1 1/2 m, tube red -
lobes yellow (7)
- 3520 - Heliconia - 3 m, BRACTS LAQUEER RED -
FLS. GREEN - (4)
- 3521 - Palm. seen only at about 2500 m. Oct.
Loguize trunk - STOLONIFEROUS - 40-20 CANES
in clump. UNARMED - UNARMED - 1 1/4 - 1 1/2" DIAM.
AVERAGE 3-4 m tall. VARY COMMON.
AVERAGE 5-6 FRONDS. (5)
- 3522 - Epiphyllum - FLS. TAN - SEE PICKLE (1)
- 3523 - QUERCUS - TREE - 30-20 m - (5)
- 3524 - Palm - SOLITARY TRUNK - 1" DIAM. 3 m tall
UNARMED - AVERAGE 5-6 FRONDS - FRUIT GREEN (2)
- 3525 - Palm - 3 m. SOLITARY TRUNK - 3/4" DIAM. GREEN
UNARMED - FRUIT GREEN (2)
- 3526 - PALICOUREA - SHrub - 4 m. FLS. yellow (10)
- 3527 - Herb - 2 m. FLS. yellow - (9)
- 3528 - DIPSACACEAE - Epiphytic colonial herb
Also found on rocks in stream beds.
FLS. yellow (18)
- 3529 - Tree fern - 4 m. ABOUT 12 FRONDS.
TRUNK 6" DIAM. - FRONDS ABOUT 3 m long. (4)
(SPECIMENS IN EACH CASE TO USE AS BARK
PAPER - WITH SECTION PAPER & TIP.)
- 3530 - Palm - TO 3 m. TALL. (5)
- 3531 - Palm - "MAGUQUE" Single trunked or
very weakly stoloniferous AT 1500-2500
m. 6-10 m - becoming with developed
stoloniferous specimens having 6-10 ^{trunks} (10)
AT 2500-3000 m. in heavy low forest

3531. (CONTINUED) AVERAGE HEIGHT 15-12 CM.
TRUNKS UNARMED - RINGED (SEEN IN JUVENILE
SPECIMENS) MATERNAL RING - 6" DIAM. (SEEN IN
VERY PREVIOUSLY DEVELOPED - PURPLE - BLACK -
INFLORESCENCES INFRAAXILLARY, 2-4 IN NUMBER
LIFE SPANS 6-8 - MORE OR LESS HORIZONTAL
(SEE PHOTO) FLOWERS PINK (SEE PICKLE)
MATURE FRUITS BLACK (SEE PICKLE)
VERY COMMON - (CROWN SHEET SPIT (2)
LONGITUDINALLY INTO TWO EQUAL HALVES
WHICH WERE EACH CUT INTO THREE TRANSVERSE
SECTIONS FOR SPECIMENS.) SPINES 2 -
(ONLY ONE SPINE FOR SPINE REFLECTED OUT
IN SOME TRANSVERSE SECTIONS, SPINE LENGTH
USUALLY FOR CONFINEMENT IN PRESSURE.)

El Valle de Volcan - 1500 M. MAY 23, 1946

3532 - *Epidendrum citriforme* - (2) (2)

VICINITY OF CONCEPCION - CHIRIQUI PROVINCE
100 M. 5/29/46 - WITH FRAGMENTS FRUITING

3533 - *Cryptopharynganthus* - NOT *C. lepidopus* OR
C. Powellii - 1-2 IN. BROWN - (PICKLE) (10) (10)
ON RIVER BANK TREES - COMMON -

El Valle de Volcan - NORTH HILLS - 1000 M.
JUNE 16, 1946 -

3534 - TREE - 15 M. FL. WHITE - LAURACEAE?
FAIRLY COMMON ON STEEP SLOPES OF HILLS
FRONT OF VALLE - (15) (15)

3535 - *Adisia Seidovii* - SHrub - 3 M. FL. LAVENDER - (4)

3536 - ARDISIA - SHRUB - 2m. Fl. white - (13)

El Valle de Ancon - Dry Forest Hills
700m. June 15, 1946

3537 - SORBOUBEA - STOUT, BRANCHED LIANA -
Fl. cream yellow - FRAGRANT - (25)

El Valle de Ancon - NORTH Hills - 1000m.
June 16, 1946.

3538

3538 - VINE - in mass (Ficus millesima?) 15m.

3539 Fruits yellow - (5)

3539 - DICRATE macrophylla Link. (D. Downiana
Ewar & Roll. f.) 3-4 ft. olive - dip
white -

3540 - 3540 - EPIDENDRUM RADICANS Ruiz & Pavon - in
mass - Fl. orange - (3)

3541 - 3541 - SORBOUBEA - EPiphytic STOUT BRANCHED
LIANA OR SHRUB - Fl. orange - (12)

San Jose Island - Panama Bay - 20m.

Collected by MR. WALKER - SALIDA - C.R.

Flowered in his collection June 1, 1946

3542

3542 - CYRTOPodium punctatum - (PINKISH Fls.) (1)

El Valle - NORTH Hills - 1000m. 6/22/46

3543

~~3543~~ - BELOTIA, probably B. PANAMENSIS Pittier - TREE
15m. Fls. PINKISH lavender. Sometimes FRAGRANT
NEARBY pine CRABS in BUT OVER LAND - (27)

3544 - 3544 - RUBIACEAE - SHRUB - Fl. BRIGHT BLUE
1m - tall. PROBABLY FARANEA ENRYCARPA D. SM. (1)

- 3545 - Bromeliad - Epiphytic - BRACTS SCARLET - (29) (25)
- 3546 - CONOSTEGIA XALAPANENSIS (Boybl.) DC
 TREE - 4 m. Fls. white - common. (21) (21)
- 3547 - Heliconia villosa Klotzsch - 1 1/2 m. BRACTS
 Hirsute, BRINDT yellow, apex SCARLET. Fls. yellow. (10) (10)
- 3548 - APHELANDRA SIBERTII Leonard - Common Herb - Fls.
 LAVENDER. (15) (15)
- 3549 - COSTUS NUTANS K. Sch. About 75 cm. TALK
 BRACTS yellow - Fls. yellow - (10) (10)
- 3550 - LOCKHARTIA CRETATA L. Wms. 2 y. Lip bright yellow.
 Lip with orange callus. (See flower in packet) (1) (7)
- 3551 - CAVERPISHIA STENOCLYPTA A.C. Smith - Epiphytic
 BRANCHING SHrub - 1 1/2 m. Fls. purple - (3) (3)
- 3552 - Aselepiad - vine - Fls. lavender - (1) (7)
- 3553 - Heliconia Fernand Chuyos in dense shade often
 of 4-6 canes - to 2 m. TALK - canes with
 clusters with slender leaves, narrow & white
 midrib - BRACTS slender, orange, often round
 translucent white. Flowers prominently
 exposed - long - slender - pure white. (1) (7)
- 3554 - Columnnea Allenii Morton - Epiphytic - of low
 Pendent chains of succulent leaves - Fls. SCARLET (7) (7)
- 3555 - ALOPLECTUS PANAMENSIS Morton - woody herb
 growing as open colonies in dense shade - 1 m. TALK
 Fls. SCARLET. (4) (4)
- 3556 - ANTHOPTEROPSIS INSIGNIS A.C. Smith - Stout ^{erect}
 BRANCHING Epiphytic shrub - fleshy CALYX ~~white~~
 PINK - COROLLA yellow - (20) (20)
- 3557 - Drymonia sp. - Stout BRANCHING epiphytic shrub
 Fls. with heavy rose purple perianth - (5) (5)
- 3558 - RUBIACEAE ? - Dicotyledon Epiphytic shrub
 1 1/2 m. leaves succulent - Fls. solitary -
 tubular, salmon pink. (3) (3)
- 3559 - CAVERPISHIA ~~multicaulis~~ A.C. Smith
 Epiphytic shrub - 1 m. BRACTS rose Fls.
 pale yellow - (3) (3)

3560 - *MASDEVALLIA COLLINA* L. WMS. Epiphytic - 700-750 -
Fls. Purple purple with yellow SPURS - (5)

3561 - *ARDISIA EICBERTII* STANLEY. SHADE - 2 m. BRACKS
under, fls. - pinkish lavender - (30)

3562 - *TERRESTRIS* (L.) HBK. in MASS on LUNA DEL TIARE
KORDEWONIA SPICES PLANT - SHAD. Pale green - lip white, common
KORDEWONIA SPICES PLANT - (see Pickle) - Strike plants seen on
CUNAO STR. (SEE PICKLE) *EULOPHIA* ?? SEE ALSO
NO. 3791 (1)

3563 - *ANTHURIA AFF. LITorea* LINDL. Epiphytic -
- 3564 - *TRICHOPITIS LAUCOXANTHA* L. WMS. - Epiphytic
Fls. pure white, LANTHORN with base yellow
SPLOTTED IN THROAT. (SEE PICKLE) (1)

3565 - *CHRISTES ROSEA* L. in MASS on LUNA DEL TIARE
Sepals GREENISH lavender - Petals base lavender
lip STRAWBERRY NIPER ROSE lavender - COMMON (5)

EL VALLE - FLOOR - 600 m. 6/28/46

3566 - *ALLENANTHUS ERYTHROCARPUS* STANLEY. TREES -
15 m. Fls. white - COMMON - (50)

3567 - *NAUWKIA NODOSA* MART. & GAL. - SHADE - TO 4 m.
Fls. REDDISH CRANE - VERY COMMON along MOUNTAINS
in SECOND GROWTH - (3)

3568 - *SOLANACEAE* ? - VINE - FRUITS SCARLET
HYCINANTHUS ACIDOLICHNIDUM BITTER (10)

EL VALLE - NORTH - 6/29/46

3569 - *ELLEANTHUS HYMENOPHYLLUS* RALPH. F. Epiphytic
Fls. CRANE - lip edged SCARLET. (1)

Hills SOUTH of EL VALLE - 800 m. 6/28/46

Ilex DANMANSIS STANLEY.
3570 - ~~*MYRTACEAE*~~ ? - SMALL TREE - 3 m.
Fls. white, COMMON - (12)

VICINITY OF CAMPANA - 25 m. 6/28/46 -

~~MAYRANOMA~~ ~~COYUBOSA~~
3571 - ~~ARABIDAEA~~ ~~STAMM.~~ WOODY VINE,
Fls. PINK - VERY SHOWY - (16) (16)

~~FRANCOFLORA~~
3572 - ODONTODIA ~~SPICATA~~ ~~PANTA.~~ LARGE WOODY
VINE - Fls. yellow - (6)

VICINITY OF LA CHARCA - 25 m. 6/28/46 -

3573 - RUBIACEAE - TREE - 8 m. Fls. white, very
FRAGRANT (30)

EL VALLE - NORTH HILLS, 1000 m. 6/29/46

3574 - MAGNOLIA ALLENII STANDL. TREES - TO 30 m.
WITH BUTTRESSED TRUNKS - FLOWERS CREAM
WHITE - (SEE PICKLE OF FLOWERS & FRUIT.) (50)

3575 - ORCHID - EPHYTIC - PLANTS RESEMBLING PLEUROTHALLIS.
FLOWERS PRODUCED ON A SHORT SCOPE AT THE
BASE OF THE STEMS, PENDANT, OF 5-6
DULL PURPLE. FLOWERS REMINISCENT OF
CRYPTOPHORANTHUS EXCEPTING THAT THE
SEPALA ARE NOT ADNATE AT THEIR TIPS -
LIP ARTICULATED - POSSIBLY AN UNDERGROUND
GROWER. (SEE PICKLE.) (2)

3576 - AECHMEA ALLENII L.B. SMITH - FRUIT CAPSULES
BLACK - BRACTS PINK WHITE - COMMON - (1)

EL VALLE - FLOOR - 6000 m. 6/29/46

3577 - CRINUM DARIENSIS WOODSON - (1)

NOTES COPIED
TO HERE 7/10/46
re-sent
3568

TRANS - Isthmian Highway - NEAR RIO RATON - 100 mi.
Cobon Province - July 11, 1946

3578 - RUBIACEAE - TREE - 6 m. Flowers white. (5)

VICINITY OF Camp Pina - Cobon Province - 7/11/46

3579 - STENANDRACEAE - Herb. Terminal cymes on side
stems. Flowers white. (7)

3580 - Pentagonia macrophylla Benth - Shrub - 2 m.
Calyx red - corolla yellow - common. (5)

3581 - Heliconia villosa Klotsch - variety with
yellow bracts edged red - 3 m tall. (3)

3582 - Heliconia villosa - red variety - bracts red
on entire outer surfaces - yellow patch
near flowers within bract. 3 m. (6)

3583 - Heliconia psittacorum? - 3 m - bracts
red - flowers large, prominently exserted -
yellow, with brown tips - this seems
to intergrade with H. straminea - different
only in average lateral size, number of
bracts & color - (see picture) (9)

3584 - GRASS - common on roadside banks -

3585 - Isearia haenkeana DC - Shrub - 2 m. Calyx
red - corolla yellow - common. (7)

3586 - EUPHORBIAEAE - Shrub - 1 1/2 - 2 m. Fls. white
common. (10)

3587 - Costus larvis - 3 m - fls. pinnately
purple - common. (9)

3588 - ASCLEPIAD - VINE - fls. lavender. (3)

3589 - Stout herb - 3 m. Rays out to ^{MYRSMIA}
DASYCARPA (Don. Sm.) ^{OR STELLANOTHE LUTEA} WOODSON - (12)

3590 - Heliconia - Clump of ^{fruits change} slender peduncled ^{change}
2-4 m. Bracts ^{change} - fls. white (see picture) (11)

3591 - VINE - fls. like lavender - in tank with
brown shrubs on sea cliffs. (5)

3592 - RUBIACEAE - PROMINENT SHRUB - 3m,
Fls. white - on small - flower sea cliffs.

3593 - ~~Hydrocotyle~~ ^{Bonariaceae} ~~bonariensis~~ (HBK) Kunth f.
WET AREAS BACK OF SEA BEACHES - Fls.
white -

3594 - PALICOUA DIVINENSIS Aubl. - SMALL TREE -
6m. Flowers yellow -

3595 - COSTUS - 2m. Fls. ORANGE - (see pickle)

3596 - ~~Rosea~~ ? - Xylocarpus PANAMENSIS TURCOTTE
Small windblown tree - 1-3m.
Fls. white, on sea cliffs -

3599 - CITHAREXYLUM CAUDATUM L. - COMMON SHRUB -
3m. Fls. white, FRUITS ORANGE -

El Valle - NORTH - 7/20/46 - 1000m.
Rio Indio track - WITH HARD TRAJICO

3598 - CAUENDISIA LENTIFLORA Penn. Sm. - Epiphytic
SHRUB - SPREADING BRANCHES 2m. BRACTS PINK.

3599 - NALICONIA - 2m. BRACTS RED - Fls. GREENISH
yellow - (~~probably a form of #3583~~)
(see pickle) PROBABLY A FORM OF #3583 -

3600 - NALICONIA - 1 1/2m. BRACTS BROAD - BEAT-LIKE - ORANGE
Flowers yellow - (see pickle)

3601 - Epiphytic HARE - 1m. Fls. terminal - ^{small} SPURTS.
(see pickle)

3602 - UTRICULARIA ENOREEII RARE. F. - Epiphytic
Fls. pale lavender - yellow blotch AT BASE
OF LABELLUM -

Hills south of EL VALLE - 400m.
7/20/46

3603 - PALICOUA TRIPHYLLA - DC. SHRUB - 1 1/2m
Fls. pale ORANGE -

VICINITY OF CERRO PUNTA - CHIRIQUI PROVINCE 2000 M.
(FLOWERS IN PICKLE, C. 2.) COLLECTED BY BRADMAN
FAIRHURST. 7/25/46

3604
3604 - ZYDOPETALUM GRANDIFLORUM - NEW RECORD
FOR PANAMA - S. & P. GREEN - STRIPED RED -
BROWN - LACERATION WHITE, WITH PURPLE LINES
& YELLOW SPOTTED CALLOS - CALLOS WHITE,
THE UNDER SURFACE WITH DELICATE RED & YELLOW
PUNCTED LINES CONVERGING ON THE CRACKED CALLOS,
WITH LATERAL BANDS OF DELICATE PURPLE PUNCTURED
LINES. (SEE FLOWER IN PICKLE) (1)

VICINITY OF LA PUNTA - CHIRIQUI PROVINCE - 7/31/46 - ABOUT
300 M.

3605 - ^{very common along highway from ANTONIO TO SANTIAGO}
very common along highway from ANTONIO TO SANTIAGO
& very com.

3605 - TREE - 15 M. FLOWERS WHITE - FRAGRANT. (25)

3606 3606 VISNIA TUVIANENSIS (AUBL.) PERE. TREE - 4 M.
CALYX BROWN - COROLLA ^{white} PINKISH - (4)

3607 3607 DURANTA REPENS L. SHrub - 4 M. FC. BLUE -
FRUITS CRANBY - (3)

3608 3608 LANTANOCYLUM SETULOSUM P. WILSON - TREE - 15 M.
TRUNK WITH NUMEROUS SUB-CIRCULAR COARSE SPINES -
HAVING VERY BROAD BASES - COMMON - (8)

VACAMONTE POINT - PANAMA PROVINCE - 100 M. 8/1/46 -

3609

3609 - CYCLOSPHILA WARSCEWICZII (WINDL.) BARTLET - PALMS
20 - 35 FT. STIPPLE TRUNK - 5" DIAM. LOWER 8 - 15 FT.
DENSELY COVERED WITH LEAF BRANCHES SPINES - WHICH
REPRESENT A CONTINUATION OF THE BASAL CONC OF
ROOTS - UPPER TRUNK RINGED - MAY - UNCOMMON -
AVERAGE - 15 - 20 LIVE FAN FRONDS - SILKING IN
UNDER SURFACES - INFLORESCENCES INFRA-FOLIOLAR &
1-3 - FLOWERS & FRUITS CREAMY WHITE
VERY COMMON IN FOREST - PROBABLY SEEN BY
STEVEN & MISTAKEN FOR TRINIA ARGENTEA (2)

3610 - Heliconia. 1 1/2 m. BRACTS BROAD. Hearted. Boat-like. GREENISH yellow TURNING PINKISH WITH AGE. Flowers pubescent, prominently exserted. Pale yellow - tipped DARK GREEN. STAMENS EXserted - (see pickle) (6)

3611 - HELICONIA ROSTRATA R. & P. (Heliconia platybrachyis Baker in Standley T.H. Canal zone). SHOOT PLANTS TO 3 1/2 CANES silvery gray. INFLORESCENCES pendulous, bracts RED WITH yellow tips. 9 MARKS - Rachis yellow. Flowers with tips exserted - yellow. Fruit blue - common. (2)

VICINITY OF LA CHORRERA - 100 m. 7/31/46

3612. TREE - ^{COUMBOUNA PANAMENSIS} LEROUX - 25 m. FLOWERS PINK - (see pickle) (50)

RIO LAS LAGAS - PANAMA PROVINCE - 20 m. 8/4/46

3613 - BIGNONIA - Fl. ROSE PINK - LIANA (11)

EL YATTE - 600 m. VCTY. FINCA YONAS ARIZA. 8/5/46

3614 - Heliconia - DENSE CHUMPS - 3 1/2 - 4 m. INFLORESCENCES pendulous - Rachis DARK RED - BRACTS DARK RED - Fl. yellow - ^{TIPS EXserted} FRUITS BLUE - BASE of leaves ANNULATE - common - (see pickle) (5) BRACTS present

3615 - Heliconia - 3-4 m. UNDERSIDES of leaves PURPLE INFLORESCENCES erect - terminal on leaf stalk - 1 1/2 m. OR basal AS IN RENGALIA. BRACTS SHINY - DARK GREEN - Fl. ROSE PINK - WITH white tips. FRUITS ^{DARK} BLUE - Fls prominently exserted - BRACTS present - (see pickle) (4) BASE of leaves ANNULATE FRUITS ^{DARK} BLUE -

3616 - Heliconia - 1 - 1 1/4 m. INFLORESCENCES erect.
RACHIS & BASE OF BRACTS RED - TERMINAL BUD OF
UNOPENED BRACTS & OUTER 2/3 OF BRACTS yellow -
FLOWERS IRIDESCENT yellow - TIPS EXserted -
BRACTS PRESENT. BASE OF LEAVES ROUNDED.
D - (see pickle) (2)

3617 - URERA elata (Sw.) Benth. SHRUB - 2 - 3 m.
Fls. pink - FRUITS ORANGE - Showy - (6)

3618 - CALATHA INSIQNI'S Peters. 2 m. BRACTS STRAW
yellow - Fls. pale pink to STRAW yellow -
Common - (3)

3619 - POTAMOCHLOE peltata (L.) Miq. 1 1/2 m.
Common - (4)

3620 - CUCURBIT - corky LEAVES - Fls. ORANGE - (7)

3621 - COMPOSITE - WOODY HERB - 4-5 m. Fls. dirty
white - CLIBADIUM APPRESSIPILUM BLAKE? - (3)

3622 - ERYTHRINA TIBBOSA CUFONTIS - TREES - 5-6 m.
Fls. SCARLET - Common - (4)

3623 - CARANDOVICA - ACANDESCENT HERB - 2 - 2 1/2 m.
AUGUSTINE 8-10 LEAVES - NOT STOLONIFEROUS -
BRACTS & Fls. WHITE - (5)

3624 - CUPHEA UTRICULOSA KOEHNIG - HERB - 30 cm
Common on ROCKS IN STREAMS Fls. purple - (6)

3625 - CASTILLA sp. TREES - 20 m. PROBABLY
PLANTED - (2)

3626 - PHYLLANTHUS - SPREADING TREES - 8 m.
Common along STREAMS - (12)

3627 - CYCNOCHES - STAMINATE CLUSTER - S. p.
& COLUMN GREEN - SPOTTED RED-BROWN -

LABELLUM WHITE - WITH 13 TOOTH-LIKE
PROCESSES ON THE MARGIN - (SEE PICKLE) (1)

FINDING PROCESSES SIMPLE - EXCEPT FOR
THE BASAL PART, WHICH ARE BRANCHED.



3628 - *Cycnoches* - STAMINATE CLAW - G. & P. NEARLY
WHITE, WITH TINY SCARLET ROSE-RED DOTS -
LABELLUM WHITE - WITH 13 FINGER PROCESSES
NEARLY ALL OF WHICH ARE FORKED -
(SEE DRAWING & PICKLE)
PROBABLY BOTH VARIATIONS OF *CYCNOCHES*
DIANA -

3629 - *Heliconia velleriana* Poeppig - STOUT HERBS
3-4 M. BRACTS SCARLET - VILLOUS, WEATHERING
SMOOTH WITH AGE - FL. YELLOW - TIPS
EXsertED. FRUITS BLUE - INFLORESCENCES
pendulous - BASE OF LEAVES BROAD - ONE
LOBE ABOVE THE OTHER - VILLOUS BRACTS
PRESENT. (1)

3630 - *Saurauia*? ^{zosteriana STANDL.} - TREE - 15 M. FL. WHITE, WITH
YELLOW STAMENS - FRAGRANT - (17)

VICINITY OF TRINDI - CANAL ZONE - 10 M.
8/14/46

3631 - *Heliconia* - VERY STOUT - 3 1/2 M. LEAVES STAVEOUS
ON UNDER SURFACES - BASES ROUNDED - ONE
LOBE ABOVE THE OTHER - INFLORESCENCES
pendulous - BRACTS RED - RACHIS RED - FLOWERS
YELLOW - TIPS EXsertED - BRACTS
PRESENT - FRUITS LAVENDER - (SEE PICKLE) (1)

VICINITY OF CAMP PINA - 2 M. - 8/14/46

3632 - *Enallagma cucurbitina* (L.) Bailh. Rookery
COASTAL MARSHLANDS - TREE - 10 M. FRUITS
LIKE MINIATURE CALABASHES - ^{Panama} Total 1169 (2)

VICINITY OF MADON DAM - 25 m. 8/8/46

3633 - Heliconia . 2 m. BRACTS GREENISH YELLOW.
Fls. prominently ~~axillary~~ - pubescent. yellow
with DARK GREEN TIPS - SAME AS - #3610 (3)

VICINITY OF CAMP PUNA - 8/14/46 -

3634 - AEROID - TERRESTRIAL, ON STEEP MOUNTAINS - ANTHURIUM - (1)

EL VALLE DE ANTON - 8/21/46 - 1000 m.

3635 - TILLANDSIA GUANACASTENSIS STANDL. Epiphytic.
BRACTS TAN - Fls. yellow - (5)

3636 - LIZYMANIA CORIOSTACHYA (KRUSEB.) WREZ - Epiphytic
LEAF BRACTS RED - Fls. JUKE WHITE - (3)

3637 - CAVENDISHIA CAPITULATA DENN. SM. - MUCH BRANCHED
SHrub - 1 1/2 m. Epiphytic - BRACTS PINK - Fls.
PALE LAVENDER - (7)

3638 - tree - 20 m. - ^{SAPINDACEAE?} FRUITS DARK RED - OPENING
IN 3 VALVES - DISCLOSING THE SEEDS WHICH
ARE COVERED WITH AN ORANGE YELLOW HAIR - (6)

3639 - CYCNOCHES DIANA REHB. F. B. P. & COLONIA
PALE GREEN SPOTTED RED - BROWN - LABELLUM WHITE
WITH 11 UNBRANCHED MARGINAL CLAWS. (1)

3640 - MUCUNA - VINE - Flowers creamy white in
MAREKAVIA - LIKE CLUSTERS ON LEAF PANDANT
STEMS - Common ALONG TRAILS - (7)

3641 - UCHARIA BOULETII ^{woods & along} - Fls. white (1)

3642 - ^{locuna sp.} ~~ACTRAS~~ ~~CARICHA~~ ~~PITTA~~ P? TREE - 25 m.
FRUITS pale yellow - (SEE P. 116)

3643 - COMPOSITE - FLESHY BRANCHING EPiphytic
1 1/2 m. SHRUB - IN TOPS OF TALL TREES - LEAVES
CORIACIOUS - Fls. purple - showy - (12) (1)

3644 - HELICONIA - 2 m. INF. ERECT - BRACTS ORANGE,
WITH REDDISH BLUSH AT BASE AND NARROW
DARK GREEN MARGIN - FLOWERS HIDDEN. DARK
GREEN. BRACTS PRESENT - (SEE PICKLE) (1) (1)

3645 - TREE - 30 m. Fls. pale yellow - (14) (1)

VICINITY OF LA CHORRERA - 8/27/46 -

3646 - BIGNONIACE - VINE - Fls. white, striped lavender
COMMON ALONG HIGHWAY IN SECOND GROWTH - (7)

VICINITY OF OCU - 8/28/46

3647 - CHRYSOPHYLLUM CAINITO L. TREES 20 m.
COMMON IN PASTURES ALONG STREAMS. (6)

3648 - DENDROPHAX? TREE - 10 m. Fls. greenish white
COMMON - (9)

VICINITY OF SAN FELIX - CHIRIQUI PROVINCE
150 m. 8/29/46

3649 - CROTON ^{STYERACIANTHUS CROIZAT} ~~PANAMENSIS (KOTZSCH) THURBERG~~ ~~ART.~~
TREE - 12 m. SPREADING - Fls. white
COMMON - (6)

3650 - TREE - 6 m. Fls. white - FRUITS WITH
COVERING OF GREENISH YELLOW POWDER - (12)

3651 - TILLANDSIA FLEXUOSA SW. Flowers red - (4)

- 3652 - TOSSACIA WOODSONIANA - Calyx deep orange - Ped
 Corolla yellow - striped orange - Common on
 wet roadside banks. (10) (1)
- 3653 - MELASTOMACEAE - SHRUB - 1 1/2 m. Fls. pink - (10) (1)
- 3654 - SHRUB - 2 m. Fruits pink -
- 3655 - COCCOLOBA - SPREADING TREE - 6 m. Along River
 Banks - (9) (9)
- 3656 - STERODIA SPETOLA (Jacq.) Karst. - TREE - 25 m.
 Fls. TAN - THIN RED-BROWN - Along River (2) (1)
- 3657 - BENIGA AMERICANA L. TREE - 5 m. Fls.
 Pale yellow - Common in pastures -
 BENIGA CARUTO H.B.K. ?? (8) (8)
- 3658 - CATASETUM ^{Ocotea} ~~MACROCARPUM~~ - ON FENCE POSTS - (10) (1)
- 0/150 m
- VICINITY OF REMEDIOS - 8/29/46.
- 3659 - ANDIRA - TREE - 25 m. Flowers bluish lavender - (40) (1)
 DOES NOT FIT A. INERMIS, JAMAICENSIS OR CHIRICA
 Looks like a species common on the VIEQUES.
- 3660 - VRIESIA SANGUINOLENTA COWN. & MARCHAL.
 HERE TANK EPITOPAS IN TOPS OF LARGE TREES - (3) (1)
- 3661 - CITRORXylum sp. - SMALL TREE - 3 m. Fruits
 ORANGE - INFREQUENT IN SECOND GROWTH - (7) (7)
- 3662 - TREE - TILIACEAE - 25 m. Fls. yellow - (20) (2)

3663 - ERYTHAENA RUBRINERVA HBK. Fence Post
Common - (3)

3664 - WARSCEWICZIA COCCINEA (Vahl) Klotzsch
SHRUB OR SMALL TREE - 3-4 m. BRACTS
SCARLET. Fls. yellow - Common (5)

3665 - ^{TRINIFLORA} TREE - 8 m. Fls. white, with yellow
stamens - on edge of MANAROE SWAMP. (12)

3666 - ~~Pithecellobium~~ - Small tree - 8 m. Fls.
Rose Red - CATHANDRA TONOUZII (B.R.) STANDL. (9)

3667 - TILLANDSIA USNECIDES L. - on tall trees in
MANAROE SWAMP EAST OF MANAROE. (5)

3668 - HELICONIA - BRACTS GREENISH YELLOW - Fls. yellow
prominently exserted - with dark green tips.
FRUITS BLUE - SAME AS # 3633 & 3610 (5)

3669 - BELLUCIA BROSSOLARIOPSIS (L.) TRINIA? -
TREE - 6 m. Fls. pale pink. (8)

VICINITY OF CAMP PINA, COLOM PROVINCE - 25 m.
9/16/46

3670 - Small tree - 10 m. very common in wet over land.
FRUITS RED - FLOWERS GREENISH YELLOW - (10)

3671 - MIMANIA? - LARGE VINE, very common in
SHRUBS & TREES - Fls. DRACONIC WHITE - (10)

3672 - SHRUB - 2 m. TRICLASTOMA - RACHIS &
CALYX DARK RED - Fls. white - Common. (10)

3673 - VERBENA? - WEEDY HERB - Fls. blue - (6)

3674 - TREE - 5 m. - Fls. white - Fruits red -
Common in second growth scrub. (2)

3675 - TREE - 10 m. Fls. white, with yellow stamens
Same as # 3665 - ~~TALAMITA~~ sp. (6)

3676 - TREE - 20 m. ANNONACEAE ? - Fls. cream
yellow. (12) (12)

3677 - SOLANUM - SHrub OR Small TREE - 3 m.
Fls. white - Common. (12) (12)

3678 - COPANIA SERMANNI TRIN & HANCH. ? Small
TREE - 10 m. FRUITS RED - TRIL OF BED
ORANGE. (10)

3679 - JACARATIA COSTARICENSIS J. & M. JOHNSON -
TREE - 20 m. FRUITS ORANGE. (7) (7)

EL VALLE - 1000 m. NORTH - 9/18/46

3680 - PASSIFLORA - Flowers white. (1)

3681 - ONCIDIUM CABANRAN, SCHLTR., J. & P.
Rich chocolate brown,
labellum spreading - base chocolate brown
with frontal lobe rich yellow - callus
with toothed processes. very handsome -
lateral lobes of lip yellow. (1)

3682 - Hillia tetrandra Sw. - Epiphytic shrub -
1 m. Fls. white. (3)

3683 - Small tree - 3 m. Fls. yellow (4)

3684 - ODONTONEMA STRIATUM (NEES) KUNTZE
Herb - 1 1/2 m. Fls. red. (1)

- 3685 - *RALISEA SPICATA* OERST. ? - STOUT HERB OR
SHRUB - 1 m. Fls. Red. (6) (6)
- 3686 - *WULFIA BACCATA* (L.f.) KUNTZE ? - SCANDENT
SHRUB - 3-4 m. Fls. yellow - composite (7) (7)
- 3687 - *ACALYHA MACROSTACHYA* Jacq. SHRUB
1 1/2 m. Fls. Rose Pink - (1)
- 3688 - *CENTROPORON RADICANS* (O. TZE.) MIE VAUGH. ? (6) (6)
- 3689 - *TILLANDSIA* - epiphytic - (1) (1)
- 3690 - *TILLANDSIA ANCEPS* Lodd. (2) (2)
- 3691 - *BURMANIA DONNELL-SMITHII* Mez ex Donn. Sm. (1) (1)
SCAPE BRACTS LACINATE RED - Fls. yellow -
- 3692 - *STEMMADENIA ALFARI* (DONN. SM.) WOODS. TREE
4 m. BULL HORN FRUITS - yellow - (3)
- 3693 - *ACETONIA ALFARII* L. B. SMITH. Epiphytic
SCAPE BRACTS ROSE PINK - Fls. LAVENDER (1)
- 3694 - *MYRANDBA AURANTIACA* (SCHROD.) LINDBL.
HERB - 50 cm. Fls. ORANGE - SCARLET - (9)
- 3695 - *JACOBINIA AUREA* HemsL. ? - SHRUB OR
STOUT HERB - 1 1/2 m. Fls. BRILANT
yellow - (2)
- 3696 - *CENTROPORON NOTANS* Phil. & OERST.
HERB - 1 1/2 m. Fls. Pink - (1)
- 3697 - *Drymonia* - BRANCHING epiphytic SHRUB
OR WOODY HERB - 2 m. Fls. yellow
with Red - BROWN MARKINGS.
(SEE PICKLE.) (4)

3698 - SCHEFFLERA ROBUSTA A.C. SMITH - STOUT
ERECT EPiphytic SHRUB - 7 m. LEAVES
COMPOUND - FRUIT PINK - ① ①

3699 - XIPHIDIUM CAERULEUM. ADEL. ① ①

El Valle - Floor - 600m. 9/19/46

3700 - TIMUCIACEAE - TREE - 20 m. FL. WHITE -
FRAGRANT - COMMON - ⑦

3701 - SONOLOBUS ALLENII WOODSON - VINE - IN
TRAILSIDE THICKETS - FL. DARK GREEN - ②

3702 - STROTANTHUS POLYRHIZOS MART. ??
PARASITIC SHRUB - VERY COMMON - FL.
RED-TIPPED ORANGE - ⑩ ⑩

3703 - CUPANIA SP. - TREE - 20 m. - ⑩ ⑩

3704 - COMMELINACEAE - HERB - 50 cm. FORMING
COLONIES ALONG STREAM BANKS - FL. WHITE ⑧ ⑧

El Valle - Floor - 600 m. 9/27/46

3705 - CISSAMPelos TROPAEOLIFOLIA DC. VINE,
FL. GREEN - ④

El Valle - NORTH - 1000 m. 9/27/46

3706 - SAURAVIA ZETEKIANA STANDL. (S. JAUCISERRATA HBK.)
TREE - 30 m. ②

RE-SEND 3413 & 3438

El Valle - 1000 m. 9/22/46.

3707 - TITANANTACEAE - 1 1/2 m. Fls. & BRACTS
WHITE - TITANANTHUS? - (4)

ALSO SEEN
VERY COMMON
PUNA

3708 - SYMPLEKIA GLOBULIFERA L.F. TREE - 30 m.
STOUT ROOTS ^{OFTEN} PROTRUDE FROM LOWER 3 FT. OF
TRUNK - Fls. BLOOD RED - LATEX YELLOW -
KNOWN LOCALLY AS "CURILLO" ALSO
ON CURRO CAMPANA & EL SEÑE - RATHER
COMMON - SEE 3413 - & 3438 (11) (1)

3709 - LAURACEAE - TREE - 12 m. (7) (1)

3710 - SMALL TREE - 5 m. Fls. WHITE - (9) (9)

3711 - TREE - 20 m. FRUITS RED - RUBIACEAE (7) (7)

3712 - HYDRANGEA OERSTEDII BRIG. ? Climbing vine,
resembling in the JUVENILE STAGE FICUS REPENS,
DEVELOPING STRONG LATERAL BRANCHES ON REACHING
THE TOPS OF THE TALLEST TREES - STRIKE Fls.
PINK OR WHITE - (13) (1)

3713 - JACOBINIA AUREA Haussk. SHRUB - 2 1/2 m.
Fls. BRIGHT YELLOW - (4) (4)

3714 - NEUROLAENA LOBATA (L.) R. BR. - ERECT - STOUT
HERB - 3 m. Fls. yellow - COMMON ON
CUT OVER LAND ALONG TRAILS - (2) (2)

3715 - MAXILLARIA - (1)

3716 - MAXILLARIA VARIABILIS BATHI. Fls. TAN - (3)

3717 - BRASSIA ALLENII L. Wms. (1)

- 3718 - *COLUMNEA ARBUTA* - MORTON - FLS. SCARLET.
KIDNEY YELLOW LINES AT THE COROLLA DIVISIONS (2)
- 3719 - TREE - 30 M. EUPHORBIAEAE?
FASCICULATA VAR. ? (7)
- 3720 - *TILLANDSIA* - SCAPE BRACTS RED - FLS. DEEP
INDIGO BLUE - (4)
- 3721 - LORANTHACEAE - PARASITIC SHAWB - IN TOPS OF
TREES - 30 M. BRANCHES LONG - TO 2 M.
FRUITS BLUE - (5)
- 3722 - TREE - 25 M. FRUITS BLACK - JIMPLE. (7)
- 3723 - *LOZMANIA DISSITIFLORA* (ANDRE) L. B. SMITH -
SCAPE BRACTS SPRING PINK - FLS. YELLOW
TIPPED PALE GREEN - (4)
- 3724 - *HAMELIA PANAMENSIS* STANDL. SHAWB OR STOUT
HERB - 2 M. FLS. KIDNEY YELLOW - IN SECOND
GROWTH IN CLEARINGS - (1)
- 3725 - TREE - 30 M. (16)
- 3726 - TREE - 30 M. FLS. WHITE (6)
- 3727 - TREE - 30 M. FLS. WHITE - (7)
- 3728 - TREE - 30 M. (12)
- 3729 - *MATISIA* (QUARARIBEA) (AFF. *CORDATA*?) TREE - 30 M. (12)
- 3730 - *PEPERONIA* - UNDERSIDES OF LEAVES PURPLE. (3)
- 3731 - *SWARTZIA DARIENENSIS* PITTIER - TREE - 10 M.
FRUITS ORANGE - (12)
- 3732 - SMALL TREE - 3 M. FLS. TAN - (1)
- 3733 - TREE - 30 M. FLS. TAN - FRUITS RED - (9)

3734 - MICONIA - TREE - 12 m. SECOND GROWTH SCAR
UNDERSIDES OF LEAVES TAN - (10) (C)

3735 - BURNINGIA NICARAGUENSIS MER & C. F. BAKER
UNDERSIDES OF OLDER LEAVES PALE LAVENDER -
Basal 1/2 of new leaves ROSE RED - SCAR
BRACTS SHINING PINK - FLs. BRIGHT YELLOW -
FLOWERING SCARCE & VERY SHORT - ABOUT
1/3 THE LEAVES - (1) (C)

3736 - PENTAGONIA ^{donnell-smithii?} ABSOLUTELY NOT P. macrophylla
TREE - 20 m. FLs. WHITE, FRUITS ^{rust} RED
SEE ALSO FORMER CATH. NO. 2801 (7) (C)

3737 - SOLANUM BRACHYCALYX KUNTZE - WOODY BRANCHES
LEANA, GROWING IN TOPS OF TREES - FLs.
YELLOW - (3) (C)

3738 - DENDROPANAX - TREE - 30 m. FRUITS
PURPLE - (9) (C)

3739 - XYLOBIUM FLORATUM HANSH. (1) (C)

3740 - MORANTIA SUBSESSILIS (BENTH.) D. SM. - HOOD
BRANCHING EPiphytic SHrub - FRUITS RED - (8) (C)

3741 - TREE - 30 m. MILKY LATEX - (11) (C)

3742 - POURouMA ASPERA TRECU - TREE - 30 m.
SAP BLACK - (7) (C)

3743 - LAURACEAE - TREE - 30 m. QUARARIBEA sp. (9) (C)

3744 - ORCHID - EPiphytic - FLs. BROWN - (1) (C)

3745 - STIGMATOSTALIX RACEMIFERA L. WMS. (1) (C)
FLs. PINK YELLOW

3746 - *APRISA ASPERA* AUBL. TREE -
30 m. (2) (C)

3747 - TREE - 30 m. FRUITS PURPLE - (1) (C)

El Valle - CREST OF CARRO PAJITA - 1100 m.
9/28/46 -

3748 - *STROBILIS ALLENII* STUYERMARK - EPiphyte
HERB - Resembles *TRIS PERMANICA*. (1) (C)

3749 - *VISMIA VIRIDIFLORA* DUCHASS. ?? - SMALL TREE,
3 m. (7) (C)

3750 - *PEPEROMIA* - CREEPING VINE ON TREE TRUNKS
SMALL THICK LEAVES - (1) (C)

3751 - EPiphytic Bromeliad - FOLIAGE SEDGE-LIKE -
BRACTS RED-TIPPED WHITE - FLOWERS PURE
WHITE - COMMON - (9) (C)

3752 - *MADONIA* - TREE - 12 m. UNDERSIDES OF
LEAVES RICH RED-BROWN - NOT SEEN
PREVIOUSLY. (20) (20)

3753 - TERRESTRIAL Bromeliad - FORMING THICKETS -
FOLIAGE SEDGE-LIKE - BRACTS RED-TIPPED
PALE YELLOW - FLs. YELLOW - VERY
COMMON - (4) (C)

3754 - *PITCAIRNIA* - EPiphytic - BRACTS PINK - (1) (C)

3755 - *PITCAIRNIA* - TERRESTRIAL - 3 m. TALL -
SCAPE VERY SLANDER - BEARING LONG
SLANDER ROSE RED - FLs. ON THE
BRANCHES. (1) (C)

PALMORRHIZIS

SEE ALSO # 3789

3756 - ORCHID - TERRESTRIAL - FOLIAGE DARK GREEN - THIN, STRIPED SILVERY GREY - FLs. LIKE MINIATURE SOBOLIA - pale yellow (1)

3757 - CHUSIA - STOUT EPiphytic BRANCHING SHRUB - 3 m. FLs. WHITE - (5) (1)

3758 - RENEALMIA - 1 1/2 m. FRUITS RED - (1)

3759 - CALYPTA - BRACTS PAPER WHITE - FRUITS BLUE - FLs. pale yellow - (1)

3760 - ERICACEAE - EPiphytic SHRUB - 75 cm. FLOWERS PENDENT ON A LONG THREAD-LIKE STEM. (1)

3761 - MELASTOMACEAE - STOUT ^{SPREADING} TREE - 10 m. TRUNK 50 cm. DIAM. FLs. pale pink. (10) (1)

3762 - DENDROPANAX - TREE - 12 m. FLs. GREEN - (4)

NUEVA GORDONA - O-M - 10/5/46

3763 - JACQUINIA PANAMENSIS LINDL. - SHRUB - 2-3 m. FLs. DEEP ORANGE - FRAGRANT - VERY COMMON (1)

3764 - SOLANUM SP. FORTHIANUM ANDR. - VINE - FLs. BLUE - FRUITS RED - (1)

3765 - ANEMOPAEFOMA ORBICULATUM (JACQ.) DC. - SHRUBBY VINE - FLs. YELLOW - COMMON - (9) (1)

notes copied + sent

NOTES COPIED & SENT

CERRO TRINIDAD - PANAMA PROVINCE - 800 - 1000 m.
OCT. 20, 1946 (ALSO SEE NOTES)

- 3766 - PEPEROMIA - ON MOIST BENCHES IN DEEP SHADE - (6)
- 3767 - UTRICULARIA - ON WET ROCK FACES OF MAIN PEAK - FLOWERS pale blue with yellow blotch at base of labellum - TRAPS VERY LARGE IN RELATION TO SIZE OF PLANT - LIKE A MINIATURE U. ENRESI - (1)
- 3768 - ERYTHRODIA sp. TERRESTRIAL, FORMING SMALL COLONIES IN HEAVY FOREST - BRACTS WHITE, FLs. creamy white - (4)
- 3769 - CACTOPODON STANULOSUS WESL. - MUCH BRANCHED ARELITE SHRUB - OR WOODY HERB - 3 m. FLs. PINK - (6)
- 3770 - ORCHID - FLs. TAN - EPIDENDRUM? - (3)
- 3771 - TREE - 5 m. FRUITS YELLOW - (6)
- 3772 - EPiphyllum - GIANT LIANA TO SEVERAL HUNDRED FEET IN LENGTH - IN TREES OR ON ROCKS - FLOWERS NOCTURNAL - VERY LARGE - OUTER PETALS PINKISH TAN - INNER PETALS WHITE - (1)
- 3773 - TREE - 6 m. FRUITS ROSE PINK - RUBIACEAE (6)
- 3774 - CYPHAELIS - WOODY HERB - 75 cm. BRACTS PURPLE - FRUITS BRIGHT BLUE - (1)
- 3775 - ^{BIOPLANTUM PENDROIDES (HBK) DC.} WOODY HERB - FLs. pale pink - ON ROCK FACES OF MAIN PEAK - (4)

Region North of EL Valle - 1000 m. 10/27/46
(Fl. in coll. of Graham Fairbridge)

3776 - ONCIDIUM CABARRAE SCHOTT. (1)

Pseudo-bulbs slender - sometimes spotted black -
becoming longitudinally ridged with age. Sepals
tan - petals light brown - frontal and lateral
lobes of lip yellow - basal $\frac{1}{2}$ below ^{callus}
brown - callus crest - white, spotted
light brown - A small fl. form.

Cerro Pasita - El Valle - 1100 m. 10/27/46

3777 - Tuzmania musaica (Lindl.) Nees -
Plants with broad alternating bands
of green & purple - scale bracts
orange - fls. pure white. (1)

3778 - Centrosolenia - NOT C. lineata -
Large terrestrial plants - flowers deep
red-brown - (see pickle)

3779 - Maxillaria fulgens (Rohlf.) L. Wms.
S. & P. blood red - lip bright yellow (2)

3780 - Epidendrum - flowers pale greenish yellow -
Slender pseudobulbs present although
they disappear in drying - Keys out to
E. pybmaeum in Ames Epidendrum, which
it is NOT - probably new - check -
(see pickle) - (4)

3781 - Erect - vase-like grey tank bromeliad -
Common to edges of grassy ridge - some
on tree & rock faces - Cerro Pasita (1)

3782 - ERICACEAE - SPHYROSPERMUM ? - CREEPING
WOODY PLANTS: EPITHYTIC - FLOWERS PURPLE.
PURPLE - FRUITS PURE WHITE - (SEE PICKLE) (3)

3783 - ORCHID - TERRESTRIAL - AGREES FAIRLY WELL WITH
THE SPECIMEN OF ERYTHROPS SECUNDA AMES IN
MY HERBARIUM - (1)

3784 - VOYRIA Allanii STEYERMARK - SAPROPHYTIC
IN DENSE SHADE - FL. ROSE PINK - (1)

3785 - Keys OUT TO EPIDENDRUM CENDROPETALUM ROBB. F.
IDENTICAL EXCEPT FOR COLOR WITH PLANTS IDENTIFIED
BY WILLIAMS AS E. GOKUMANNIANUM. SEPAL &
PETAL LIKE GREEN - LIP PURE WHITE - ANOTHER
IDENTICAL SPECIMEN SEEN IN WALTER COPE'S
COLLECTION FROM CARO CAMPANA - (1)

3786 - RUBIACEAE - COCCOCYPSELUM HIRSUTUM BATH.
CREEPING HERB - IN HIGHLAND CHAMBERS
FRUITS BRIGHT BLUE - CONSPICUOUS - FL. BLUE (6)

3787 - PALMORCHIS ?? - (POSONIA (TRIPHERA))
NOT IN FLORA - LEAVES
STRIPED SILVERY GRAY - FL. CREAM YELLOW -
LIP STRIPED LAVENDER - (SEE PICKLE) TERRESTRIAL (1)
SEE ALSO NO. 3756 -

3788 - ACANTHACEAE - SHAUB - 1 M. FL. PINK - (1)

HILLS SOUTH OF EL VALLE - 7000 M. 10/27/40

3789 - FICUS VELUTINA Willd. - SPREADING TREE -
20 M. (I HAVE TWO FICUS SPECIMENS IN THE
HERBARIUM WHICH HAVE BOTH BEEN DETERMINED AS
F. VELUTINA - THEY ARE NEARLY IDENTICAL IN EVERY
THING BUT FRUITS, WHICH ARE VERY DISTINCT.
SEE NOS. 1837 AND 2525 - THE LAST OF WHICH
AGREES ENTIRELY WITH THE PRESENT SPECIMENS - (5)

3790 - *Sobralia leucokantha* - POHB. F. - ON STUMP
VOLCANIC ASH BANKS - S. & P. PURE WHITE
LIP WHITE, WITH BILYMA - YELLOW INNS
THROAT - HEARS OF COLUMN BILYMA YELLOW - (C)
(SEE columns in Pickle)

VICINITY OF CERRO Jefe - PANAMA PROVINCE 7000.
(Flowered in collection of MR. ROLLAND JONES - BARROA, C.Z.
10/28/46

3791 - *Eulophia*? - TERRESTRIAL - LONG-NARROW BLATIA-LIKE
FOLIAGE - SLANDER BASAL PSEUDO-BULB - SLANDER RACEME
OF 6-8 FLESHY FLOWERS, S. & P. pale green.
LIP WHITE, WITH TRANSVERSE PURPLE STRIPES.
SEE ALSO NO. 3562 - (Pickle only) (C)
LOOK UP *Eulophia Filicaulis* -
SEE ALSO *Orostylis* AMES ORCH. FASC. VII p. 58
WEST INDIES - SEE *Cyrtopodium cristatum*!
AMES. ORCH. FASC. VII p. 62

CERRO PASITA - EL VALLE - 1100 m. 10/29/46

3792 - *Maxillaria repens* L. WMS. (4)
SEE plate AMES. ORCH. Soc. Bull. FEB. 1, 1942

3793 - *Phaiotallis* - (was *Devallia*??) EPIPHYTIC -
FLOWERS LAVENDER (Pickle only) - - (C)

3794 - BENTIANACEAE - SAPROPHYTIC - FLS. DEEP YELLOW (C)
(Pickle only)

3795 - *Leptanthes*? - SAPROPHYTIC - HERBS - (C)
(Pickle only)

3796 - *Wasdevallia* - NOT IN FLORA - SINGLE
DAMAGED FLOWER IN PICKLE - (C)

3797 - ORCHID - FLs. WHITE - EPiphytic -
3797 (PICKER) ONLY

(1)

ISOCHILUS - SEE FL. JAMA. ORCH. PL. 13

NUEVA GORDONA - 0 MI. PANAMA PROVINCE 10/28/46
3798

3798 - ACANTHOCERCUS PENTAGONUS (L.) BRITT. & ROSE - (1)
FLS. WHITE - NOCTURNAL - IN THICKETS ABOVE
SEA BEACHES - COMMON -

CARRO PASITA - EL VALLE DE ANTON - 100 MI. 10/27/46

3799

3799 - EPiphytic Bromeliad - STEM BRACCS pale green
THROUGHOUT. TANK LEAVES GREEN - BRACCS
Filled WITH TRANSPARENT JELLY - (1)

EL VALLE - TRAIL TO HEADWATERS OF RIO ZARZA ANTON
900 M. Nov. 10, 1946 - COLLECTED BY HARRY DUNN

3800

3800 - CYCNOCHES - VERY STOUT PLANTS, PSEUDO -
BULBS UP TO 7 CM. IN DIAMETER & 30 CM.
IN HEIGHT - AVERAGE ABOUT 4 CM. DIAM. & 18 CM.
TALL - BEARING BROAD - Plicate LEAVES CLOTHING THE
ENTIRE BULB - VERY STRONGLY VEINED DARK GREEN
TOWARD THE BASE CHANGING GRAYISH - UPPER
3-4 LEAF AXIS BEARING CLUSTERED PISTILLATE
INFLORESCENCES, SOMETIMES WITH THE POSITION
OF A PAIR OF THE STAMINATE FORM. PISTILLATE
FLOWERS FLESHY - SEALS & PATALE YELLOWISH
GREEN OBSCURELY VEINED DARKER GREEN - LIP IRONISH
YELLOW - SHADING TO GREEN ON THE POINTED TIP.
NARROW SEMI-CIRCULAR CHEST DULL BROWN - (1)

Continued

3800 - (CONTINUED) FLOWERS ARE IN GREENISH
YELLOW - WITH BROWN MARKINGS TO THE SEPALUMS.

3800

STAMINATE FLOWERS NORMALLY PRODUCED IN A LONG
PENDULOUS CHAIN FROM THE LOWER LEAF AXIS.

SEALS & PETALS PALE YELLOWISH GREEN - OBSCURELY
VEINED DARKER GREEN - LIP WHITE WITH PROLONGED
ACUMINATE TERMINATION & LATERAL MARSHAL TOOTHED
PROCESSES. BASE OF LIP UNDER COLUMN WITH
A GREEN BLOTCH & TWO GREAT PALE GREEN
PROCESSES - UPPER SEPAL - PETALS & COLUMN
MINUTELY SPOTTED - RED-BROWN - (SEE PICKLE)

VICINITY OF DAVID - CHIRIQUI PROVINCE - 100 MI.

(PLANTS FLOWERED IN TAMBOCA NOV. 12, 1946)

3801

3801 - *CATHEYA SKINNERI* - SEALS & PETALS LIKE (RICK.) - ONLY
PARTIALLY OPENING - LIP TIMIDLY ROLLED ABOUT THE COLUMN -
CONSIDERABLY REDUCED IN SIZE - APEX OF LIP WHEN OPENED
FOR INSPECTION PINK PURPLE SHADING THROUGH PINK
TO BARELY UNDER COLUMN, WHICH IS MAROON - (2)
(SEE PICKLE)

EL VALLE - CARRO PATITA - 100 MI. -

(FLOWERED IN TAMBOCA - NOV. 18, 1946)

3802

3802 - *SPIRANTHES NAUARENSIS* (AMES) D. WINS. TAPRESTIUM -
IN HEAVY SHADE - SHAPE BRACKS CORAL RED - UPPER
SEPAL ZINC ORANGE - LOWER SEALS, PETALS & LIP
ABOUT ORANGE BUFF. (SEE PICKLE) (1)

PACIFIC LOWLANDS - EXACT LOCALITY UNKNOWN

(PLANTS PURCHASED FROM COLLECTOR - FLOWERED TAMBOCA NOV. 12, 1946)

3803

3803 - *CATHEYA SKINNERI* - SEX P. NOT FULLY EXPANDING - LIP TIMIDLY
ROLLED OVER COLUMN - FRONTAL LOBE OF LIP PINK PURPLE -
SHADING TO NEARLY PURE WHITE IN CENTRAL INNER THROAT -

3803 - (CONTINUED) BASAL 1/3 UNDER COLUMN VERY NEAR
BORDEAUX -

(1)

3803

El Valle - NORTH - 1000 MI. (LOWA DEL TIENE) 11/16/46

³⁸⁰⁴
3804 - BRASSIA ALLENII - LINN. S.P. OLIVE OCHER - SHADING
TO CINNAMOON BUFF AT THE BASE - PETALS WITH A SMALL
BASAL TRIANGULAR BARIUM YELLOW SPOT. LIP BARIUM
YELLOW WITH A NARROW BAND OF IRREGULAR MURKADO
BROWN SPOTS BELOW CREST - CREST WHITE, WITH
A DEEP LONGITUDINAL CLEFT WHICH IS COLORED STRONTIUM
YELLOW. ANTHUR CAP WAX YELLOW WITH A MURKADO
BROWN BEAN - COLUMN WHITE, WITH TWO NATURAL BLOTCHES
OF MURKADO BROWN - FRAGRANT - (SEE PICKLE) (1)

3805

3805 - SMALL TREE - 5 MI. FRUIT RED -

(3)

3806

3806 - ARDISIA PITTIERI MEX - SMALL TREE - IN HEAVY FOREST
3 MI. FR. PINK - IN PENULTIMATE JAWALS - STAMENS YELLOW -
FRUIT BRIGHT RED -

(3)

3807

3807 - TREE - TEN MURKADO - FRUITS YELLOW

(2)

3808

3808 - PLEUROTHALLIS - NEAR P. ROWLEEI, BUT DIFFERING VERY
CONSIDERABLY IN THE FORM OF THE PETALS. FLOWERS NEARLY
RASIN PURPLE - SEPALS HIRSUITE - PLANTS VARIABLE IN
SIZE & LEAF SHAPE - FLOWER CLUSTERS IN VARIOUS
CARRIED ON UNDER-SIDE OF LEAF - (SEE PICKLE)

(7)

3809

3809 - ONCIDIUM CRISTA-GALLI - KORB. F. - (PICKLE ONLY)

(1)

3810

3810 - PLEUROTHALLIS ROTUNDATA SCHWEINF. - UNDERSIDES OF LEAVES OFTEN
PURPLE - SEPALS ROSE RED-TIPPED WAX YELLOW - PETALS PALE
YELLOW - TIPPED LIKE BROWN - HIRSUITE - LIP PALE YELLOW AT
BASE - SHADING TO ROSE RED - APEX YELLOW - MARRIERS OF S.P.
DENSELY MINUTE HIRSUITE - (SEE PICKLE)

(1)

WEACKERi SCHULTZ.

3811- Scaphylophora - S. & P. white - lip white, with faint lateral purple lines - column purple - Pollinia 4 - (see pickle) ①

3812- Isochilus - Sepals purple - shading to cream yellow at the tips - petals greenish yellow - translucent - lip translucent - greenish yellow - Pollinia 4 - (2) ② (see pickle)

3813- Maxillaria - Variabilis - Batem. - S. & P. pale greenish yellow - Inner lip maroon with greenish yellow margin to the frontal lobe - (see pickle) ① ②

3814- Pleurothallis - near P. Russifolia - R. Br. Sepals white - petals pale yellow - lip yellow - (see pickle) ① ②

3815- Pleurothallis Cobraeformis L. Wms. - upper sepal pale translucent green - heavily spotted maroon - lower sepal red - with broad ^{longitudinal} central pale green band - 4 irregular blotches under lip - petals maroon - the markings ^{maroon} ^{white} ^{white} lip maroon - column maroon - (see pickle) ① ②

3816- Pleurothallis - pterocaulis L. Wms. Fls. purple - (see pickle) ① ②

3817- Maxillaria Endresii var. angustisegmenta (A. G. S.) Schwein
outer surfaces of S. & P. white - inner surfaces of
sepals ~~white~~ yellow shading to white at base -
inner petals white, inner lip bright yellow, with
white margin to the frontal lobe. Inner 1/3 below
column white, striped ^{rich} red - brown - column rich
red - brown - apical 1/3 white - Anther cap tan ⑤ ②
(see pickle)

El Valle - Upper Rio Anton - 650 m. 11/16/46

3818 - TREE - 25 m. LUM'S SQUARE TREE -
← QUARARIBEA AFF. PLATYPHYLLA PIT. + O. SM.

(4)

3819 - INDA - SMALL TREE - 4 m. FLS. WHITE -
FAIRLY COMMON IN ROADSIDE THICKETS -

(5)

(5)

REGION SOUTH OF EL VALLE - RIO MATA ALICADO
200 m. 11/16/46

3820 - BLETIA - TUBEROSA (L.) AMES
(SEE PICKLE)

(2)

VICINITY OF JUAN DIAZ - PANAMA PROVINCE - 50 m. 11/12/46
(Flowers in Pedro Zúñiga in collection of Walter Cegi)

3821 - MAXILLARIA - ^{CAMBRIDII} S. & P. PURE WHITE - Lip PINK YELLOW -
MARRINGED WHITE, WITH TRANSVERSE BARS OF RED-BROWN -
Red-Brown blotch at base of column - flowers
usually produced as a single pair - (SEE PICKLE)

(1)

(C)

3822

3822 - MAXILLARIA - S. & P. CREAM - Lip very pale
yellow - 3 pairs of flowers produced simultaneously
(SEE PICKLE)

(1)

(C)

RIO NAVARRO - FORESTS ABOVE OROSI - COSTA RICA
5000 FT. - Flowered in the collection of MR. CH. LANKESTER
LAS CONCANAS - CARTAGO - COSTA RICA - 11/26/46

- 3823 - *Pleurothallis grandis* ROLFE -
3824 - *Pleurothallis coccolobiceps* ?? - ROLFE ??
3825 - *DICHAEA CILIOLARE* ROLFE
3826 - *SCAPHOSEPALUM ANCHORIFERUM* ROLFE
3827 - *Pleurothallis* sp. possibly NEW -
3828 - *STATIS CASCAJALENSIS* WAND. near S. leucopogon
3829 - *PESCATORA CRINA* - very large flowered plant -
3830 - *EPIDANTHUS* near E. paranthus
3831 - *ONCIDIUM PANDEPORA* WOODS - Buds & leaves as *ONCIDIUM*
ochroleucum.
3832 - *LOCKHARTIA LUNIFERA* ?? -
3833 - *Pleurothallis* sp. fls. yellow
3834 - *Pleurothallis palliolata* -
3835 - *SIGNATOSTYLIS HYPOMENANTHA*
3836 - *SISTALOSSUM LACMINATUM* (Platythallis?)
3837 - *SOBRALIA* - Dried flowers - color rose purple
3838 - *ODONTOGLOSSUM CENVALERICIENSIS* - fls. white
3839 - *ONCIDIUM CHEIROPTERUM* -
3840 - *PHYSOSIPHON* sp.
3841 - *Pleurothallis Standleyi*

VICINITY OF LAS CONCANAS - CARTAGO - COSTA RICA
Flowered in the collection of MR. CH. LANKESTER
11/26/46

- 3842 - *LYCASTE LEUCANTHA* -
3843 - *EPIDENDRUM CRINIFERUM* ROLFE (keys out to ^{fig.} sp.)
3844 - *ONCIDIUM STENOTES* -
3845 - *LEPANTHES TURRIANA* (see illus. WASS. CAT.)
3846 - *EPIDENDRUM BRASAVOLAE*
3847 - *LYCASTE BREVISATA*
3848 - *EPIDENDRUM DIFFORME* -

REGION ABOVE EMPALME - 6000 FT. COSTA RICA
FLOWERS IN THE COLLECTION OF C. H. LANKESTER
LAS CONCAVAS - CARTAGO - 11/26/46

3849 - LEPIDANTHE - SPREADING ON CAVE - MAY BE NEW

VICINITY OF ESTRELLA - 5000 FT. COSTA RICA
FLOWERS IN THE COLLECTION OF MR. C. H. LANKESTER
LAS CONCAVAS - CARTAGO - COSTA RICA 11/26/46

3850 - TRICHOCENTRUM PFAVI -

3851 - MAXILLARIA COQUINEUM - FLs. ORANGE -

3852 - KEFERSTEINIA ESTRELLANSIS - THIS SHOULD BE PFAVIA -

VICINITY OF CARILLO - 1000 FT. COSTA RICA
FLOWERS AT LAS CONCAVAS - COLLECTION OF MR. C. H.
LANKESTER - 11/26/46

3853 - CRYPTOPHERANTHUS - FLs. CREAMY WHITE -

VICINITY OF OROSI - COSTA RICA - 4500 FT.
11/26/46

FLOWERS IN THE COLLECTION OF MR. C. H. LANKESTER
LAS CONCAVAS -

3854 - RESTYPIA LANKESTERI - ANIS -

PACIFIC COAST LOWLANDS - COSTA RICA
FLOWERS AT LAS CONCAVAS - MR. C. H. LANKESTER
11/26/46

3855 - LAZIA RUBESCENS -

3856 - PLANTAGINIS LONGISSIMA - FLs. YELLOW

ONK FOREST ROAD PAN AMERICAN HIGHWAY
TO EL GENERAL - 7000 FT. FLOWERS AT LAS
CONVAS IN COLL. MA. C. H. LANKESTER 11/26/46

3854 - MAXILLARIA sp. Fls. ROSE PINK - Common

VICINITY OF CACHI - REUNTAZON VALLEY ^{Costa Rica} COSTA RICA
4000 FT. FLOWERS AT LAS CONVAS - COLL.
MA. C. H. LANKESTER - 11/26/46

3858 - PLEUROTALLIS SCANDENS - Fls. PURPLE -

3859 - PLEUROTALLIS SCANDENS -

OHOMERO - VICINITY OF TREE RIDS - 6000 FT. ^{Costa Rica} COSTA RICA
FLOWERS AT LAS CONVAS - COLL. MA. C. H. LANKESTER
11/26/46

3860 - MASDEVALLIA ECORNUTA

3861 - MILTONIA ENDRESII

3862 - MASDEVALLIA sp. Fls. YELLOW

3863 - PLEUROTALLIS sp. Fls. PURPLE -

3864 - MAXILLARIA sp.

3865 - SCAPHYLOTTIS sp.

CERRO UYUCA - DEPARTAMENTO DE MORAZAN ^{Honduras} HONDURAS
6000 FT. CLOUD FOREST - WITH PAUL C. STANLEY
& LEWIS O'WILLIAMS - 12/5/46

3866 - EPIDENDRUM sp. Fls. GREEN - (SEE PICKE) ①

3867 - EPIDENDRUM aff. E. PANESUM - Fls. ^{greenish} PINK GREENISH
YELLOW - (SEE PICKE) ①

3868 - APOPHYLLUM ALPINUM? Fls. ROSE PINK - Common
(SEE PICKE) ②

- 3869³⁸⁶⁹ - Pleurothallis - fls. pale yellow (see picture)
 3870³⁸⁷⁰ - Odonostemon polyanthum - ON CANE - 5000 FT.
 fls. white - (see picture)

PENA BLANCA - HEADQUARTERS OF RIO LINDO - DEPARTAMENTO DE YORO - HONDURAS - DEC. 10, 1946 - WITH MARK TRAYTON -

- 3871³⁸⁷¹ - Epidendrum? *pyramicum* Hook. - Sep. TAN - lip white, with pointed lavender mid lobe - creeping habit - common - (see picture)

- 3892³⁸⁷² - Pleurothallis - fls. TAN - common - (see picture)

- 3893³⁸⁷³ - Tradescantia simulata - fls. translucent - heavily spotted red - brown - (see picture) - common

- 3894³⁸⁷⁴ - Maxillaria *Friedrichshagenii* Rolfe & F. - Sep. yellow - lip red - brown - common - (see picture)

- 3895³⁸⁷⁵ - Pleurothallis - probably identical with no. 3872 - (see picture) fls. TAN - common -

- 3896³⁸⁷⁶ - Pleurothallis ?? - fls. yellow - (see picture) rare -

- 3897³⁸⁷⁷ - Epidendrum *Boottii* (Cinch.) Luerens (Cf. Hook.) - fls. straw yellow - (see picture) very common -

- 3898³⁸⁷⁸ - Epidendrum *Weyb's* Jaeg. - with NOT run out in "hairs" Epidendrum - " - Sep. TAN - lip pinkish stain - under surfaces of sepals purple - common - (see picture -)

- 3899³⁸⁷⁹ - Maxillaria - Sep. cream white - lip bright orange - (see picture)

3880 - TILKANDSIA - EPiphytic -
3881 - TILKANDSIA - EPiphytic -

CARRO UYUCA - DEPARTAMENTO DE MORAZAN - HONDURAS
6000 FT. CLOUD FOREST - WITH PAUL C. STANLEY & LOUIS
O. WILKINS - 12/5/46

3882 - BIGNONIACEAE - SHRUB - 1 M. FL. SCARLET - (4)
3883 - MYRSINACEAE - SHRUB - 2 M. FL. PALE PINK - (2)

RIO YEGUARE - VICINITY OF CASITAS, ABOUT 800^M
DEPARTAMENTO DEL PARAIISO - HONDURAS - 12/4/46 -
WITH PAUL C. STANLEY & LOUIS O. WILKINS -

- 3884 - COMPOSITAE - HERB - FL. WHITE - (1)
3885 - COMPOSITE - WOODY HERB - 2 M. - (1)
3886 - LATHA RUBESCENS - (2)
3887 - QUERCUS - TREE - 20 M. (3)
3888 - METASTOMACEAE - SHRUB - 1 1/2 M. (2)
3889 - SPERMANIA TAILLONIAE STANL. - WOODY
VINE - (3)
3890 - LAURUS - HERB - FL. ORANGE - COMMON IN
PASTURES - (1)
3891 - LAURUS - HERB - FL. YELLOW - COMMON (1)
3892 - EUPHORBIA - WEEDY HERB - (1)
3893 - LAURUS - HERB - FL. ORANGE - COMMON - (2)
3894 - MIMOSA - WOODY HERB - 2 M. FL. PINK -
COMMON - (3)
3895 - TURNERA - HERB - FL. ORANGE - COMMON - (2)
3896 - ASTER SPINOSUS L. - WEEDY HERB - ON ROCKS
IN STREAM COURSES - FL. WHITE WITH YELLOW
CENTERS - COMMON - (2)

CFSHOW
KENTON
FEB. 1974

Cerro Uyuca. Departamento de MORAZAN - HONDURAS
5000 FT. Pine-oak clearing - 12/5/46. with
DR. PAUL C. STANLEY & LOUIS O. WILLIAMS.

- 3897 - *Distylium hondurensis* STANLEY & WALKER.
TREE - 15 m. det. STANLEY. (2)
- 3898 - ^{MALVACEAE} WOODY HERB - 1 1/2 m. Fl. purple. (3)
- 3899 - MELASTOMACEAE - woody herb - 1 1/2 m. fl. pink (1)
- 3900 - *Pinus obovata creniloba* - fl. white. (1)
- 3901 - CASTILLEJA - herb - 1 m. (1)
- 3902 - LINUM - fl. yellow. (1)
- 3903 - VALERIANA SORBI FOLIA - (2)
- 3904 - COMPOSITE - woody herb - 1 1/2 m. fl. yellow. (2)
- 3905 - TREE - 20 m. 6000 FT. cloud forest. (2)
- 3906 - COMPOSITE - woody herb - 2 m. fl. white. (1)
- 3907 - SALVIA - fl. blue - common. (3)
- 3908 - SALVIA - fl. rose purple. (3)
- 3909 - SALVIA - fl. red. (1)
- 3910 - *Cestrum aurantivium* - shrub - 1 1/2 m.
fl. orange - fruit white - common. (2)
- 3911 - SALVIA - fl. pale lavender. (2)
- 3912 - *Eupatorium* - woody herb - 2 m. fl.
pale pink. (4)

RIO TABASARA - VERAGUAS PROVINCE - PANAMA - 100 m.
PLANTS flowered in TAMBOCA 12/20/46

- 3913 - *Cycnoches ventricosum* - male flower -
(see picture) ON PLANT ABOUT 8" HIGH. SEEN
TO FRUITING - Small size of flower believed
to be correlated with size of plant. (1)
- 3914 - *Cycnoches ventricosum* - male flowers -
SOMEWHAT LARGER IN SIZE THAN 3913, BUT
OTHERWISE IDENTICAL. (SEE picture) Plant No. 1 (1)

3915 - *CYCNOPUS VENTRICOSUS* - Hermaphroditic flowers
(see picture) PLANT. NO. 2 (1) (1)

EL VALLE DE ANTON - 600 M.
PLANT flowered in MANCOA 12/20/46

3916 - *CATASETUM SCURRA* - (see picture) (1)

3917 - *Epidendrum congestum* Rolfe - (see picture) (1)

VICINITY OF LA PINTADA - COCOTE PROVINCE - 150 M.
PLANT flowered in MANCOA 12/20/46

3918 - *ONCIDIUM AMPLIATUM* - (see picture) (1)

3919 - *Epidendrum stanfordianum* - (see picture) (1)

EL VALLE DE ANTON - 600 M. COCOTE PROVINCE
flowered AT MANCOA 12/26/46

3920 - *ORNITHOCYCLUS* - S. P. P., white (see picture) (1)

EL VALLE DE ANTON - COCOTE PROVINCE

REGION NORTH OF EL VALLE - 1000 M. AND TINDER
1000 M. flowered AT MANCOA 12/26/46

3921 - *Maxillaria albani* L. Wms. fl. pale
yellow - (see picture) (2)

3922 - *Epidendrum crinitum* Rchb. F. (see picture) (1)

3923 - *Platycyathus* aff. *P. Powellii* - (see picture) (1)

3924 - *Epidendrum nocturnum* - very striking
variation from normal - could be described as
New sub-sp. foliage purple on under
surface -

El Valle - Moor - 600 m.
Flowered at TAMBOA - 12/26/46

3925 - EPIDENDRUM LICHNARTICIDES SCHULT.
Pls. GREEN - (SEE PICKER) TURNING
TAN WITH AGE - (5)

VICINITY OF TAMBOA, C. 2. 12/31/46

3926 - NOTYLIA pentactenus Rehb. F. (SEE PICKER) (1)
Sepals pale green - petals, near white, with
TWO MINUTE ORANGE CIRCULAR SPOTS - lip
pure white

RIO LINDO - HONDURAS - Flowered at TAMBOA 1/5/47

3927 - Scaphytotis - S. & P. GREENISH WHITE - lip white -
column tinged purple (SEE PICKER) (1)

3928 - Hexadesmia (Scaphytotis?) S. & P. pale green - obscurely
striped greenish tan - lip white, with a broad pale
yellow median stripe - ANTHOR CAP purple -
(SEE PICKER) (2)

VICINITY OF EL ZAMORANO - HONDURAS - Flowered at
TAMBOA 1/5/47

3929 - Cattleya aurantiaca - Sepals bright orange - Petals
bright orange with minute red dots - lip bright
orange with red spots. (SEE PICKER) (1)

vicinity of Kumbich, C. 2. 12/20/46 collected by
Dorothy O. Allen.

3930 - PASSIFLORA SEEMANNI Wils. - Fls. Blue - (3)

3931 - Liana - woody liana - Fls. Pink - (2)

Trail to

Cerro PASITA - Hills north of El Valle - ~~1200 m.~~ ⁵⁰⁰
1/2/47 - with William Fairchild

3932 - APTALANOA - SHrub - 1 1/2 m. Fls. pink - (4)

Crest of Cerro PASITA - Hills north of El Valle
1200 m 1/2/47 - with William Fairchild -

3933 - SPIRANTHUS NAUFRANCOIS (Aubl.) L. Wats. (5) (C)
(see picture)

3934 - SELAGINELLA - Epiphytic - (1)

3935 - SCOPHYMOTIS - Fls. pale greenish white,
faintly striped lavender (see picture) (4)

3936 - CYRTANUS - SHrub - 1 1/2 m. Bracts pale pink -
Fls. pale pinkish lavender - (3)

3937 - LYCOPODIUM - 2 1/2 m. tall - in thin forest (4) (4)

3938 - STEWOLYIS ALLENII STEYERMARK - (see picture) (1)

3939 - LOCKHARTIA - Fls. yellow - (see picture) (1)

3940 - ~~SPIRANTHUS~~ SPIRANTHUS FUNCKIANA? ^{Tuberous} - (see picture) (1)

3941 - MAXILLARIA ALLENII L. Wats. S. & P. fls. yellow -
lip reddish tan - (1)

3942 - MAXILLARIA - AFF. *CHAMPIDIUM RIVINIFLORUM* -
S + P. white row - tipped 4 margins yellow -
lip R with orange - (See picture) (3) (C)

3943 - EPIDENDRUM - AFF. *E. JAMAICENSE* - Fls. green -
(See picture) (C)

3944 - SCAPHYNOTTIS - RARE SPECIES - TO 3 FT. TALL -
S + P. pale greenish lavender - lip white, with
central yellow median band - (See picture) (3) (C)

3945 - MAXILLARIA - S + P. pale pinkish tan - lip row brown -
(See picture) (4) (C)

3946 - MAXILLARIA REPERENS de WARD. (Picture only) (1) (C)

3947 - PRASCOTIA ORIENTALIS ?? - (Picture only) Epiphytic. (1) (C)

3948 - PLEUROTHALLIS - PROBABLY *P. ACHYPTROSTACHA* SLEIGHT.
(Picture only) Fls. white. (1) (C)

3949 - POLYSTACHYA sp. - Fls. greenish yellow -
(Picture only) (1) (C)

3950 - Epiphytic orchid - Fls. ^{pink} green.

3951 - LYGANTHES ? - Fls. tan - (Picture only) (1) (C)

3952 - PLEUROTHALLIS (*MADONATHIA*) ? - Fls. purple - (Picture only) (1) (C)
Same as NO. 3793

Floor of El Valle - 600 m. collected by Dorothy
Allen - 1/2/46

3953 - TRICHOANTHUS - sp. (Picture only) (1) (C)

3954 - *Pleurothallis muricata* - Schott, Fls. yellow -
common - (Pickle only) (1) (2)

Cerro Patita - Hills north of El Valle - 1200 m.
1/2/47 - with William Fairbridge -

3955 - Melastomaceae - Stout trees - common to elfin
forest - 3-4 m. Fls. white - (6)

3956 - Melastomaceae - Stout spreading tree - 3-6 m.
Common to elfin forest - Fls. pink -
Stamens yellow - (5)

3957 - Bromeliad - Undersurface of leaves lavender -
Spike bracts scarlet - Fls. pale yellow - (1)

3958 - Bromeliad - Terrestrial - Flower spikes - 2 m tall.
Flowers red - common - (1)

El Valle Chiquito - 600 m. Flowers in 1947
Action in the collection of Mr. Harry Dunn 1/7/47

3959 - *Bomarea quinquevallis* - Ruiz & Pavon -
Flowers yellow - Spotted - Red-brown -
(see pickle) (1)

Cerro Ampara - 800 m. 1/7/47 - with William
Fairbridge -

3960 - *Clusia* - tree - 10 m. Fls. pinkish white,
fragrant - (4) (3)

3961 - *Pleurothallis* - Fls. red-brown - (see pickle) (1)

- 3962 - ERICACEAE - Giant Branching Epiphytic Shrub -
3-4 m. Fls. pink - (6)
- 3963 - Pleurothallis - Fls. purple - (see picture) (1)
- 3964 - Calathea - Bracts purple - Fls. greenish
yellow - 1 1/2 m. (1)
- 3965 - SHRUB - 2 m. Fls. dark purple - (2)
- 3966 - Leochilus? - Fls. Brown - (see picture) (1)
- 3967 - Lycopodium - Epiphytic - (1)
- 3968 - MAXILLARIA Allenii L. var. S. & P. Straw yellow -
lip red - orange - (5)
- 3969 - Pleurothallis aff. P. coccolobos - Fls. translucent
maroon red - brown - (see picture) (1)
- 3970 - POOECARPUS Allenii - Tree - 25 m. Very common
Name reported as "Al-Fajitko" (6)
- 3971 - EPIDENDRUM RITIDUM Steud. Fls. greenish
yellow - (see picture) (1)
- 3972 - Giant Thorny liana - (Cactaceae?) Fruits orange (1)
- 3973 - MAXILLARIA - Fls. tan - (see picture) (2)
- 3974 - Aechmea - Vine - Fls. pale yellow - (2)
- 3975 - Pleurothallis - S. & P. white - lip white,
Frontal lobe purple with central white
spot. Anther cap purple - (see picture) (1)

- 3976 - *Cyclanthes* - Tupper's herb. (1)
 3977 - *Mesocotia* *Stalderi* (Sw.) Hitchc. Tupper's herb. (1)
 3978 - ~~*Mesocotia*~~ - *Epiphyta* - in nearby forest - (1)
Spiranthes?

Rio TABAZARA - VERAGUAS PROVINCE - 100 m.
 Flowered in NUMBER 1/11/47

- 3979 - *Cycnocheilus* *ventricosus* - white fls.
 Producers from plant NO. 2 - (see picture) (1)

Cerro PATITA - Hills NORTH of Ah VALLE - 1200 m.
 Flowered at NUMBER 1/12/47

- 3980 - *Scaphyloctis* *bilineata* (Raff. in) S. Hitchc.
 (see picture) 90 P. Pale pinkish white
 column of anther of lavender - (1)

Rio LINDO - HONDURAS -
 Flowered in NUMBER 1/12/47

- 3981 - *Dichaea* - fls. translucent - spots pale (1)
 PINKISH LAVENDER - ANTHAR of purple - (see picture)

Cerro CHUPAN - 800 m. Flowered in NUMBER
 1/12/47

- 3982 - *Scaphyloctis* - fls. translucent - striped
 lavender - see also NO. 3935 - (see picture) (1)

- 3983 - *Epiphanium* *arens* - fls. tan (see picture) (1)
 Foliage green

- 3984 - *Epiphanium* *diffusum* - flowers white
 with pale green tips to sepals & petals.
 (see picture) (1)

El Valle - Floor - 600 m. Flowered at Stamba
1/14/47

3985 - *Melastoma* *Interum* - S. & P. yellowish green -
minutely spotted red-brown - lip tube -
brownish & very strongly spotted with red -
minutely spotted red-brown (see pickle) (1)

Cerro Plantation - vicinity of Summit - C. Z.
Flowered in the collection of Mr. & Mrs. James
Barrett, San Obispo - C. Z. 1/14/47

3986 - *Monardropsyche* *lipscandata* - S. & P. pure
white - lip white, with narrow pink lines,
in the inner throat - Ovary white - styles
brown - Corolla & other dry pure white -
strong cinnamon fragrance in the ~~morning~~
morning. (see pickle) (1)

El Valle - Floor - 600 m. Flowered at Stamba
1/14/47 - collected by Dorothy O. Allen

3987 - *Oncidium* *chiropterum* - (see pickle) (1)

Cerro Ampara - Rock Face - 800 m. Flowered at
Stamba - C. Z. 1/14/47 collected by Dorothy Allen.

3988 - *Sobralia* *decora* - (see pickle) (1)

3989 - *Trichocentrum* - (pickle only) (1)

El Valle - Trail to Cerro Plata - 800 - 1000 m.
1/2/47

3990 - *Voyria* *Allenii* - Pickle only - (1)

3991 - ORNITHIDIUM ? - (MAXILLARIA) Fls. Red-Brown -
(see pickle) (1)

3992 - MAXILLARIA - Fls. pale purplish red - lig with
dark reddish brown narrow yellow callus - (see pickle) (1)
Anther of stamens extend to tip of labellum

Rio Tuolumne - vicinity of Peora - 50 m. Flowered
at Peora 7/5/46 - collected by William F. West

3993 - CATASETUM VIRIDIFLAVUM - (Pickle only)
Male & Female flowers - (1)

Rio Mata Abasco - vicinity of El Valle
500 m. Flowered in the collection of Mrs. & Mrs.
James Barrett - BAS Obispo - C. R.

3994 - GLEBONIA LUTEA - (Pickle only) (1)

Cerro Uyuca - Honduras - 5000 ft. Pine - Oak
clearings - with Prof. C. Standley and Louis O.
Williams. 12/5/46

3995 - LUPINUS - Fls. Blue (3)

3996 - PHASEOLUS - vine - Fls. purple - (1)

3997 - HYPTIS - SHrub or woody herb - 1 m. (1)

3998 - ASTRAGALUS MONTANENSIS (1)

3999 - OREGANUM - Tree - 6 m. (1)

4000 - TILANDSIA STANDLEYANA - large erect red -
Fls. dark purple - common on pines - (3)

4001 - CATOPSIS - common on pines - (1)

4002 - Tillandsia - Bark 1/4 of leaves brown -
Terminal 3/4 green - Sepals bright red - Terminal
bracts of inflorescence green - flowers
dark purple - common on pines - (2)

4003 - SALVIA DORISIANA Standley - Fls. BRIGHT PINK - (2)

Summit of
Cerro UYUCA - HONDURAS - 6000 FT. Cloud Forest
12/5/46 - with Prof. C. Standley and Louis Williams

4004 - Monotropa - Coelestis - Monotropa
Coelestis - Fls. BRIGHT PINK - (2)

4005 - Prescettia Standleyana - (1)

4006 - Podocarpus - Trees to 95 ft. very common - (4)

4007 - Peperomia - Epiphytic and terrestial herb -
common - Quercus folia (L.) HBK. (1)

4008 - Psychotria - Tree - 4 m. (3)

4009 - Saurauia villosa - Small tree - 6 m.
Fls. white - (4)

Vicinity of El Zamorano - Honduras - 2500 FT.
12/7/46 - with Prof. C. Standley and Louis O. Williams

4010 - Hyptis macriniana Benth. - Herb - 2 m. (2)

4011 - Croton Popovii Standl. - Shrub - 1 m. (3)

4012 - Annona amorphoides Liebm. - Tree - 6 m. (2)

4013 - Pisonia maritima D. Sm. - Tree - 15 m. (2)

4014 - Espeletia mexicana DC. - Herb - common - (1)

4015 - Zinnia mexicana - Fls. dull red - common (3)

4016 - Trichanthes charnii Standl. - Shrub - 6 m. (2)

4017 - Ricthia hirta L. - Tree - 15 m. (1)

4018 - Ipomoea arborescens - woody shrub - 3 m. Fls. white (2)

4019 - Rhytidia buyanensis Aublet - Tree - 6 m. (2)

4020 - Tree - 6 m. Fruits red -

(3)

4021 - Aristolochia - Fls. brown - faint woody

limb - Fls. produced from old woody stems -

(7)

* HOODURA'S NOTES TO HALL'S SEED HOODURA 2/15/47

VICINITY OF CHIVA CHIVA - ~~100 m.~~ 100 m. 1/15/47
Collected by STANHAM FAIRCHILD

4022 - Epidendrum setkefferianum Ams -
(see checklist) FAIRCHILD

(1)

Cerro Chingana 500 m. 1/15/47 -

4023 - Ardisia compressa HBK. Tree - 6 m.
Fls. pink -

(4)

4024 - SHRUB OR STOUT HERB - 1 1/2 m. NOT A
ODD FRUIT -

(1)

4025 - Maxillaria - S + P. pale green - tinted lavender -
lip pale green - with median yellow callus -
rather cap sometimes reflexed to point
of lobes - (see checklist)

(1)

4026 - Maxillaria - S + P. yellow - lip red - brown -
(see checklist)

(1)

4027 - Epidendrum ramicum - Summit of rock
face - (see checklist)

(1)

4028 - Epidendrum anceps - Fls. greenish yellow -

(1)

4029 - Broussin - Kurzmania dissitiflora (ANDRE)
L. B. SMITH -

(1)

4030 - *PROURALIA* - SURGE BRACTS. Red - Fls.
white - common - (1)

Vicinity of ARUADUKE - 50 mi. 1/23/47

4031 - SHRUB - (*CASSIA*) 1 1/2 mi. Fls. yellow - very
common to marsh floors in the wet season - (5)

CASIMYRIA ERIOSTACHYS

4032 - *Sclerolobium* - trees - averaging 8 meters
but sometimes reaching 15 meters under
favorable circumstances - fls. yellow -
seen only in the area from Aruaduke
to the OCU entrance road - (8)

Vicinity of Campaña - 100 mi. 1/21/47

4033 - *Pteris*? - woody vine - fls. purple -
very common - (2)

4034 - *Sclerolobium* - large trees - 25 mi. Fls.
yellow - known locally as "INDIO"
seen from MANDUA TO CERRO CAMPANA -
covering areas of 100 inch precipitation -
often clustered in "manchas" of 8-10 trees - (15) (1)

NOT TO BE CONFUSED WITH NO. 4032

~~4035 - *Sclerolobium* (Hilleb.) DC - woody herb -
1/2 mi. - 1/2 mi.~~ (1)

VICINITY OF ORO - 100 m. 1/22/49

- 4035 - Mimosa pudica - Fls. pink. (2)
- 4036 - BAHINIA - Small UNARMED tree - 6
meters - Fls. white - (4)
- 4037 - LEUCOE - tree - 15 m. Fls. white - (7)
- 4038 - Calycophyllum DAVALLIANSII (VATH) DC.
TREES - 20 m. Fls. & BRACTS white - (4)
- 4039 - QUADUA ACUTATA RUPR. ex FOURN.
Dense spiny clumps - 20 m. Common
Along stream courses - (8)
- 4040 - PECTIS ~~capillaris DC.~~ ^{capillaris DC.} Herb - Fls.
yellow - CAPILLARIS - DC. (2)
- 4041 - ACANTHACEAE Herb - Fls. pink - (2)
- 4042 - PTEROLEPIS pumila (Bourq.) Cogn. Fls. pink. (1)
- 4043 - DESMODIUM CASANIOFOLIUM (HBK) DC.
woody Herb - 1 1/2 m. Fls. pink. (1)
- 4044 - RHYNCHANTHERA MEXICANA DC. woody
Herb - 1 m. Fls. royal purple - (2)
- 4045 - MENTHACEAE - Fls. lavender - (1)
- 4046 - COMPOSITAE - Fls. pale yellow - (1)
- 4047 - ROSSERIA VERTICILLATA HBK - Stout
Herb - 1 m. Fls. red - (1)
- 4048 - SCHULTESIA QUINENSIS (Aubl.) Mart.
Fls. pale pink - (1)
- 4049 - PEROPIERIA LATIFOLIA (Rode) Roem.
Common tree - 8 m. (2)
- 4050 - Herb - common in pastures - (1)
- 4051 - SELANUM - Small tree - 3 m. Fls. white - (3)
- 4052 - COMBRETUM ^{FRIMOSUM HBK.} woody scandent shrub
8 m. Fls. greenish yellow - FRUITS
red-brown - common - (5)
- 4053 - MENTHACEAE - tall Herb - 1/2 m. Fls.
lavender - (2)

- 4054 - *Carex pruriifolia* HBK. woody herb - 1 1/2 m - Fl. yellow - common - (1)
- 4055 - *Davilla leuota* Presl. scandent shrub - 4 m. ~~1 1/2 m~~ (1)
- 4056 - *Triumfetta* - shrub - or woody herb - 1 1/2 m. (3)
- 4057 - *Wattersonia strobilata* Presl. - shrub - 1 1/2 m. Fl. white - common - (3)
- 4058 - *Bouzaunia ulmiifolia* Lam. (1)
- 4059 - *Asclepias curassavica* L. (1)
- 4060 - shrub - 2 m. Fruits red - (3)
- 4061 - *Sida* - Fl. buff - common weed - (2)
- 4062 - *Hymenocera curranii* L. - tree - 15 m. (1)
- 4063 - *Anacardium occidentale* L. Small trees - planted along road sides - common - (1)
- 4064 - ~~Asplenium~~ ^{SPURSA} *Simauba* (L.) Rose - small tree 10 m. common - (1)
- 4065 - *Jatropha curcas* L. shrub - 3 m. sterile - (1)
- 4066 - *Aptandra* - shrub - 2 m. Fl. pink - (2)
- 4067 - *Clusia* - ^{ODORATA SEEM.} tree - 12 m. Fl. pink - common - (5)
- 4068 - *Myrsine* - ^{ARVISA REVOLUTA HBK.} tree - 3 m. (2)
- 4069 - *Inga* - *Spuria* H. & B. tree - 20 m. Fl. white - (5)
- 4070 - *Arabisida candidans* (H. C. Rich.) DC. Liana - Fl. purple (4)
- 4071 - *Cochlospermum vitifolium* (Willd.) Spreng. (1)
- 4072 - *Mussaenda trifida* (Jacq.) Winkl. Arn. woody vine - Fl. green - (1)
- 4073 - *Convolvulaceae* - vine - Fl. lavender - (1)
- 4074 - *Digitaria robinoides* Benth. "Machao" common tree - 6 m. Fl. yellow - (1)
- 4075 - *Anacardium excelsum* (Benth. & Bate) Skeels. tree - 25 m. sterile (Burm.) Trinaya (1)
- 4076 - *Conostema subcrustulata* - shrub or woody herb - 1 1/2 m. Fl. pink - (1)

- 4077 - ACANTHACE - HERB - Fls. PINK - Common
along streams - (3)
- 4078 - JACQUEMONTIA PENTANITA - (Jacq.) Don
Convolvulaceae - Fls. White - Common (2)
- 4079 - SOLANUM, vine - Fls. pale blue - (1)
- 4080 - IJOMONA TRILOBA L. vine - Fls. lavender - (1)
- 4081 - BOSSYGIUM ~~TRIDENS~~ ^{TRIDENS COOK & HORTON} ~~TRIDENS~~ - Stout
woody herb - 4 m. - Fls. ~~pink~~ ^{reddish} yellow pink (1)
- 4082 - CAECATA FISSILIS Veth. tree - 15 m. (3)
- 4083 - tree - 15 m. (3)
- 4084 - CAESALPINIACEAE - Herb - 1/2 m. Fls.
yellow - common weed - (1)
- 4085 - Composite - woody herb - 2 m. Fls. pale
lavender - common - (2)
- 4086 - AMARANTHUS SPINOSUS L. (1)
- 4087 - AESCHYNOMECE HAIRICHAMA L. weak herb -
2 m. Fls. yellow (1)
- 4088 - CENTROSEMA PUBESCENS Benth. vine -
Fls. lavender - (1)
- 4089 - SALVIA OCCIDENTALIS Sw. Fls. Blue
common weed - (1)
- 4090 - OELIMUS MICRANTHUS Willd.
common weed - (1)
- 4091 - vine - Fls. pale pink - (4)
- 4092 - LIPPIA HEMISPHERICA Jacq. ANETHINK
SHRUB - 4 to 5 m. Fls. white - (2)

NOTES TO HERE SENT TO
 WOODSON 1/31/47

- 4093 - LAUREA SPECIOSA Willd. - tree - 20 m.
Common on edges of pastures. (1)
- 4094 - HERPETICA ALATA (L.) Raf. - Small tree - 4 m.
Fls. yellow - common (2)

4095 - *Loetia ZERMANII* DIMIT & PLANCH. - Tree - 20 m.
Fls. white, common along streams. (1)

Rio Viejo - Vicinity of Puerto Pilon - Colon Prov.
10 m. FEB. 2, 1947

4096 - *Schinus molle* - Fern-like dense colonies in shade -
Stout branching species to $\frac{3}{4}$ m tall - stems
of tree to 2 m in length. (3)

4097 - Tree - 25 m. Fls. white - (3)

4098 - ^{woody} Malvaceae - Stout herb - 3 m. Fls. yellow - Calyx
& fruit bright red - veins of undersides of
leaves bright pink - Very showy & handsome. (5) (4)

4099 - Tree - 7 m. Fls. white - (7)

4100 - *Triplaris* - Shade - 2 m. Fls. yellow. (4)

4101 - *Neurolema lobata* (L.) R. BR. - woody herb -
2 m. Fls. yellow. (1)

4102 - *Labiata Oaxacensis* (STEUD.) HITCHE. - Bamboo. (2)

4103 - Palm - Completely Acaulescent - 12-15 flowers -
Spikes produced at stem level between branch
axils - seemingly with separate staminate &
pistillate inflorescences - fruit clusters of tree
very low in the forest so as to be
nearly or quite invisible from a short
distance - Very common in heavy forest. (1) (1)

JUAN MINA Plantation - Rio Chapeas - KENON ABOVE
NUMBER - 25 m. 2/3/47

- 4104 - ERYTHRINA STUCCA Willd. "SALITO" - TREES -
15 METERS - EXTREMELY COMMON ON FLOODED LAND
AND ISLANDS - FLs. ORANGE - FLOATING GRASS
ISLANDS TEND TO ACCUMULATE IN STAGNANT WATER
AND SEEDLINGS OF THIS SPECIES TAKE ROOT IN THE
FLOATING MATS, EVENTUALLY ANCHORING THEMSELVES
TO THE BOTTOM & THEN FORMING IN TIME PERMANENT
ISLANDS - (1)
- 4105 - CONVULVACEAE - Floating aquatic herb in shallow
water along shore - FLs. lavender - (2)
- TRICHANTHERA hirsuta (HBK) Humb. & Bonpl.
4106 - TREE - 12 m. Shrub with RHYTHMUS ALBA
in marshy land - flowers reddish brown - (1)
- 4107 - CONVULVACEAE - VINE - FLs. yellow - common. (3)
- 4108 - SAPINDACEAE - woody liana - FLs. white - (2)
- 4109 - CEPHAELIS TOURNETOIA (Aubl.) Vahl. - SHrub -
2 m. BRACKS RED - (1)
- 4110 - ROBINEAE - Small tree - 4 m. (2)
- 4111 - BIXA ORELLANA L. - TREE - 10 m. (2)
- 4112 - ANANTHERAE - HERB - 2 m. FLs. purple - (2)
- 4113 - HELICTERIS KARWINIAE Folia HBK. - SHrub
3 m. (1)
- 4114 - FABACEAE - woody liana - fls. pink. (2)
- 4115 - OPLISMENUS HIRTELLUS (L.) Beauv. common (1)
- 4116 - FABACEAE - FLs. reddish brown - (1)
- 4117 - HELICONIA - BRACKS greenish yellow -
FLs. yellow - TIPPED DARK GREEN - 2 m. (1)
- 4118 - HERB - FLs. white - (1)
- 4119 - woody herb (2)
- 4120 - COMPOSITE - tall woody herb - FLs. lavender (1)
- 4121 - EUPHORBIA TRICANTATA Vahl. FLs. blue - (1)
- 4122 - IRESINE CLOSIA L. - FLs. white (1)

- 4123 - CONVULVULACEAE - VINE - FLs. purple - common. (2)
- 4124 - PIPROGUS AZUREUS (SWARTZ) RAV. common
AQUATIC - FLs. BLUE - (1)
- 4125 - TRUMFETTA HISPIDA A. RICH. woody HERB -
2 m. common (1)
- 4126 - Hibiscus - woody HERB - 2 m. FLs. PINK. (2)
- 4127 - SOLANUM - WEAK - THICK SHRUB - 1 1/2 m.
FLs. BLUE - (1)
- 4128 - JUSSIEA NATANS H.B.K. - PLANTAIN
AQUATIC - FLs. WHITE - VERY common - (1)
- 4129 - CABOMBA AQUATICA AUBL. common
AQUATIC - FLs. PINK - (1)
- 4130 - HELICONIA - 3 m. BRACTS GREEN - FLs.
LARGE - RED - PROMINENTLY EXsertED - (1)
- 4131 - CALATHEA LUTEA (AUBL.) R.F.W. WILSON
3 m. BRACTS BROWN - FLs. YELLOW - common (1)
- 4132 - DATE CAMPIDIA TIKIAFOUA Lam. BRACTS CRISTATE
COLORADO - common VINE - (1)
- 4133 - ROURINDEZIA SECUNDA KUNTH - FLs.
PINK - very common ON CITRUS - (see picture) (1)
- 4134 - TILKANDSIA BARBISIANA SCHULT.
very common on citrus - (3)
- 4135 - CATOPSIS NUTANS (SW.) TRISEB. very
common on citrus - (2)
- 4136 - TILKANDSIA FASCICULATA SW. common on citrus (1)
- 4137 - woody HERB - 1/2 m. (2)
- 4138 - APHETANORA BINCARRINA NEES - SHRUB - 3 m.
BRACTS CRISTATE - FLs. PURPLE - common - (2)
- 4139 - POLYRHOUS PUNCTATUS Ell. - PLANTAIN
AQUATIC HERB - common - (1)
- 4140 - CLIBATIUM SURINAVENSE L. SHRUB 2 m.
common - (1)
- 4141 - SERJANIA RHOMBEA RADLK. - common VINE - (1)
- 4142 - EUPHORBACEAE - small TREE - FLs. DARK
RED - (2)

- 4143 - ANANTHEAE - Fls. pink. Common - (2)
- 4144 - ROBINIACEAE - Small tree - 3m. Fls. yellow - (2)
- 4145 - SEDGE - Very common - (2)
- 4146 - VISNIA VIRIDIFLORA DUCHASS. Small tree 4 m. Fls. green - Common - (1)
- 4147 - DAVILLA KUNTHII ST. Hil. - woody liana - Fls. yellow - Common - (1)
- 4148 - woody liana - Fruits brown - (3)
- 4149 - FREZERIA - woody vine - Fls. purple - Very common in brushy places - (2)
- 4150 - LASIACIS OAXACENSIS (STEUD.) HITCHE. Bamboo - 4 m. Common - (1)
- 4151 - CHAMAEFISTULA BRILLARIS (L.F.) W. DON Small tree - 3m. Fls. yellow - (2)
- 4152 - Bromeliad - Common on citrus - (3)
- 4153 - COELOSPERMIUM VITAEFOLIUM (WILLD.) SPRENGER (1)
- 4154 - MICONIA ARGENTEA (SW.) DC. - tree - 12 m. Fls. white - Common - (5)

Rio Matuncillo - vicinity of Santa Rosa - 25 m.
2/3/47

- 4155 - ERYTHRINA ATROCA WILLO. (1)
- 4156 - HIRTELLA AMERICANA L. - SHrub - 3 m. Fls. purple - (2)
- 4157 - LUEKERA SEEMANNII RICH & PLANCH - tree 25 m. Fls. white - (2)
- 4158 - HERPETICA ALATA (L.) RAF. - SHrub - 2 1/2 m. Fls. yellow - Common - (1)
- 4159 - TRIFOLIUM FERTONIANUM BATHY, ex Lindl. Very common on large trees. (see pickle) (1)
- 4160 - SHrub - 1 m. ~~Fls.~~ Introduced Asiatic weed - (2)
- 4161 - HAMERIA NEGOSA MART. & RAU. SHrub - 2-3 m. Fls. orange - few - (1)

- 4162 - Tree - Lemon - 12 m. (2)
 4163 - *CARDIOSPERMUM SPANDIFLORUM* Swartz.
 vine - fls. white - (1)
 4164 - Tree - 15 m. fls. white - (2)
 4165 - *STREPTOPHYLLUM* - vine - fls. yellow - (1)
 4166 - *CYCISTA AEPHRODITAE* (L.) MIERS
 woody liana - fls. pink - (1)

Cerro Parita - Hills north of La Valle de Anton
 1000 - 1200 m. 2/7/47 with Dorothy Allen

- 4167 - *Epiphanesia* - fls. green - (1)
 4168 - *Cephaelis juncea* Sw. Shrub or small
 tree - 3 m. bracts orange - fls. white - (1)
 4169 - *Hymenophyllum fucoides* Sw. Filmy fern
 common - (1)
 4170 - *Polytales* - fls. white - common - (4)
 4171 - *Trichomanes* - common (2)
 4172 - *Maxillaria* - Sepals & petals white
 lip reddish brown on under surface, exserting
 faint frontal lobe which is cream yellow.
 yellow callos. (see picke) (1)
 4173 - Tree fern - very stout short trunk
 3 m. 10" diam. like Costa Rican Palo
 de mico - common (1)
 4174 - *Begonia Allenii* Standl. fls. dark pink -
 common - (1)
 4175 - *Melastomaceae* - tree - 3-6 m. in thin
 forest - 1200 m. fls. white - very abundant. (4)
 4176 - Grass - infrequent - (1)
 4177 - *Maxillaria* - Sep. red - ears green -
 lip red - margins white. callos. yellow
 (see picke) (2)
 4178 - Epiphytic shrub - 1/2 m. fls. green - (2)

- 4179 - *VERNONIA* - SCANDENT SHAUB - 3m. Fls. WHITE - (1)
- 4180 - *BURKESTERIA AUROBARBATA* (E. Wimmer.) E. Wimmer, Epiphytic Herb - 3/4 m. Fls. BROWN - (1)
- 4181 - *BYCHOTRIA JAPEROVITAE* STANDB. Epiphytic SHAUB - FRUIT RED - COMMON - (1)
- 4182 - *TILANDSIA BONAERASTENSIS* STANDB. (1)
- 4183 - *COLUMNA KUBRA* MORTON - CALYX RED - WITH GREEN STRIPED MARKS - UNDERSIDES OF LEAVES VINE RED - FLOWERS BRINKT YELLOW - (1)
- 4184 - *ACETOSA ALLENII* K. B. SWITT - SCYFE BRINKT BRINKT PINK - Fls. DEEP LAVENDER - COMMON - (1)
- 4185 - *EPIDENDRUM CLASSICUM* P. & F. 9. & P. TAN HEAVILY SPOTTED RED - BROWN - LIP JOINT YELLOW - FLOWERS JOINT LAVENDER - (1)
- 4186 - *BORUMIA BOATMANENSIS* K. B. SWITT - SCYFE BRINKT STRIPED RED & GREEN - Fls. YELLOW - (1)
- 4187 - *LISIMACHIS* sp. SHAUB - 3m. Fls. yellow - TIPPED GREEN - (2)
- 4188 - *ANTHURUM* sp. - Epiphytic - (1)
- 4189 - *PLEUROTHALLIS* - Fls. MAROON - (SEE PICKLE) (1)
- 4190 - *PITCAIRNIA* - TERRESTRIAL - Fls. RED - COMMON - (1)
- 4191 - Tree - 3m. IN LTFIN FOREST - Fls. WHITE - (5)
- 4192 - *MAXILLARIA ENDRISII* var. *ANDRISII* var. *ANDRISII* var. *ANDRISII* (1)
- 4193 - *CEIBA ALLENII* WOODS. Tree - 20m. THICK 16" DIAM. Fls. WHITE - STAMENS YELLOW - (3)
- 4194 - *SCHATTLEIA* - Epiphytic SHAUB - 1m. Fls. WHITE - (2)
- 4195 - *EUTERPE JAMAICENSIS* BURDET 3-4m. DWARFED BY WIND - IN LTFIN FOREST - (1)
- 4196 - *ORNITHOCYTHUS* - 94 P. WHITE - LIP DARK GREEN - MARKS WHITE - (SEE PICKLE) NEW?? (1)

Rio Viejo - vicinity of Puerto Viejo - Coban Province
10 mi. Feb. 2, 1947

4197 - *Heliconia Bihai* L. Common - (1)

JUAN MINA - Rio UHARRAS - 25 mi. 2/3/47

4198 - *Cordia Alliodora* (Nitz + Brown) Roemer + Schott. T. TREES - 15 mi. Fls. white - Common - (3)

4199 - *Heliconia Bihai* L. Common - (1)

4200 - *Calathea lutea* (Aubl.) W.F.W. Meyer 3 m. BRACTS BROWN - Fls. yellow - undersides of leaves white - Common (1)

4201 - *Ochroma nivicincta* Rauhé - Tree - 15 m. Fls. white - Common - (1)

Vicinity of Belvedo - SEA LEVEL - 2/7/47 -

4202 - *Bignoniaceae* - woody liana - flowering without leaves - very common in low trees along highway - Fls. pink - (4)

4203 - *Tournefortia juncifolia* (L.) Hemsl. trees - 20 m. Common to rocky hills EAST of Belvedo - Fls. pink - (2)

LA YALLE - FLOOR - 600 m. 2/7/47

4204 - *Anacardium excelsum* (Bart. & Ehb.) Speg. TREES - 25 m. Common along streams - (1)

4205 - *Shorea thalicti muricata* Speg. Fls. yellow - very common - (1)

4206 - *Costaria* - Tree - 20 m. Thick 12" diam. Fls. lavender - (1)

Hills South of El Valle - 1700 m. 2/7/47 -

- 4207 - Scapellatois - Fls. white - common - (2)
4208 - Epidendrum IBAQUENSE HBK. - common on
Riverside banks in grass - (see pic) (2)
4209 - PYSSODIA MONTANA (Benth.) Gray - Fls.
orange - common silvery herb - (1)
4210 - LISIMACHIS CORYMBOSUS PARKINS - Shrub -
2 m. Fls. yellow - (1)

Trails & Clearings North of El Valle - 700-800 m.
2/7/47

- 4211 - ENCLIDIVUM CHEIROPHORUM RHB. F. - Fls. yellow
common - (1)
4212 - Wrecker? Weedy Herb - 1 m. Fls. white -
common in clearings - (3)
4213 - Mimosa? - Shrub - 3-4 m. common along
trails ~~and~~ in hillside clearings - (2)
4214 - woolly Herb - 3 m. Fls. yellow - (1)
4215 - BEGONIA AMIFOLIA R. DC. ? woolly Herb -
to 2 1/2 m. Fls. very pale pink - (3)
4216 - BEGONIA SPURSA R. DC. Fls. white - (1)
4217 - CENTROPOMA NOTATA Phil & Oakes.
Shrub - 3 m. Fls. pink - (1)
4218 - MYRIOPHYLLON YACONENSIS (Down. Sm.) Killip.
Small tree - 4 m. common in second growth
along trails - Fls. white - (1)
4219 - Acahypha - Shrub - 3 m. (2)
4220 - IRESINE CECILIA L. Weedy Herb - 2 m.
Fls. white - (1)

El Valle - FLOOR - TRAILS near TRAPICHE - 600 m. 2/1/47

- 4221 - SIDA? - woody Herb - 3 m. Fls. yellow (4)
- 4222 - COCAUTIA GRANDIFOLIA VAR. NORMANDI (KUNZE)
mohdenke - TREE - 6 m. Fls. Blue (1)
- 4223 - MACRODENDRUM STERILENS (Benth) WOOD.
Tree - 20 m. Fls. PINK - Also on Cerro
Cangra - (1)
- 4224 - woody Herb - 2 m. Fls. Blue - common (2)
- 4225 - LONOCLOBO'S ALLENII woods - woody vine,
Frequent along trails - Fls. green (1)
- 4226 - ACANTHACEAE - woody Herb - 1 1/2 m. Fls.
pinkish orange (1)
- 4227 - COMPOSITE - BRACTEATED woody Herb - to 5 m.
Fls. yellow - common along trails (4)
- 4228 - SYNEDELLA NOVI FLORA (L.) KARTN. Herb -
1/2 m. Fls. yellow (1)
- 4229 - TRICHANTHA - woody Herb - 2 m. (3)
- 4230 - IRESINE - SCANDENT Herb - 3 m. (2)
- 4231 - SIDA - ^{Bushy} woody Herb - 1 m. Fls. yellow
common (3)
- 4232 - CROTON - SHRUB - 2 m. Fls. white (3)
- 4233 - ORNITHOGALUM JOELLEIIFORMIS C. SEGUIN P. (1)
- 4234 - Bushy Herb - 2 m. Fls. white (2)

Cerro Cangra - 800 m. Collected by William Fairchild
1/24/47

- 4235 - MAXILLARIA - Fls. TAN - (see pickle) (2)
- 4236 - PRESCOTTIA OLIVANTHA (Sw.) Lindl. (1)

Cerro Cangra - 800 m. Fls. STAMEN 1/6/47

- 4237 - MAXILLARIA - Same as no. 4235 - (1)
- 4238 - SPIRANTHA ACUTIS (Vie. Sm.) Conn.
ON ROCK FACE - (see pickle) - Fls. GREEN (1)
See Voucher Photo

Cerro Chayana - 500 m. Flo. RAMBOA 2/14/47

4239 - Epidendrum anceps - Jacq. (1)

Vicinity of Santa - Flo. RAMBOA 2/6/47

4240 - TRIBEONIDIUM EBERTONIANUM BATH. ex LINDL.
Sepals & petals pale greenish yellow - the
petals striped brown + with round brown spot
at tips. Reversed front lobes of lip
yellow - Inner lip under column striped
brown - Common on large trees in
pastures - SEE ALSO 4159 (1)

4241 - LAELIA KOEPPENII (Phil.) L. Wms.
S. & P. brown - lip pinkish lavender
edges brown with central yellow callus -
(see picke) (1)

Vicinity of DAVID - CHIRIQUI PROVINCE - 25 m.
Flowers RAMBOA 2/15/47

4242 - ONCIDIUM STIPITATUM Lindl. S. & P. very
heavily blotched red - brown - labellum + lateral
lobes bright yellow - crest heavily spotted
red - brown - ^{Reverse} surface of lip heavily
spotted red - brown - (see picke) (2)

Very. Rio de Jesus - Flo. RAMBOA 1/4/47

4243 - BOEBOGYPHUM JACQUETII Kuhn. (3)

Very. Rio de Jesus - Flo. RAMBOA 2/15/47

4244 - ASPISIA EPIDENDROIDES Lindl. -

VICINITY OF ESCOINTIA - GUATEMALA - 100 m. Flowered
in the collection of Nathaniel P. Reiche 2/1/47

4245 - ONCIDIUM CAVENDISHIANUM BATH. Leaves very
thick. S & P. WHITE, UNDULATE - Heavily spotted
brown. Lip BROWN WITH UNDULATE WHITE MARGINS.
CREST & COLUMN WITH RED. (SEE PICKLE) (1)

VICINITY OF EL ZAMORANO - DEPT. DE MORAZAN - 2500 FT.
Flowered BANBORA 1/28/47

4246 - ONCIDIUM AFF. O. CAROLINAE - S & P. yellow
Heavily spotted LIGHT BROWN - PLOUGH & DETACH
LEAVES OF Lip yellow - CREST LIGHTLY DOTTED
RED - BROWN - (SEE PICKLE) (1)

HILLS SOUTH OF MANAGUA, NICARAGUA - 2500 m.
VICINITY OF CASA COLORADA - Flowered BANBORA
1/28/47

4247 - ONCIDIUM STIPITATUM Lindl. - S & P. yellow
spotted RED - BROWN - PLOUGH & DETACH LEAVES
S - Lip BRIGHT yellow - CREST Heavily
spotted BROWN - (SEE PICKLE) (1)

RIO TEFMECHIN - HONDURAS - BETWEEN LAKE YOJA &
SI BATEQUE - 500 m. Flo. BANBORA 1/28/47

4248 - ONCIDIUM STIPITATUM Lindl. S & P. yellow -
spotted RED - BROWN - Lip & DETACH LEAVES BRIGHT
yellow. CREST spotted BROWN - (SEE PICKLE) (2)

4249 - NOTYLIA pentstemonifolia Rolfs. F. Sepals pale brown
parabls white with one to several minute
orange spots - Lip pure white. (SEE PICKLE) (1)

4250 - ONCIDIUM LINDORUM Lindl. - S. & J. Brown -

Lip brown - with a rich yellow & mauve crest -
column & the thick edge pale pink - (see picture) ①

* - NOTES TO THE SMT WOODSON 4/25/47

Rio Lindo - Honduras - Vety. V. = Puerto Blanco - 300 m.
Dept. de Yoro - Fls. NUMBER 2/24/47

4251 - BONGORA QUINQUEVARIIS Ruiz et Pavon - Lower
Sigsbee, petals & column heavily marked & spotted reddish
brown - upper two sepals divided longitudinally
in two distinct color areas, half pure white &
half reddish brown. Labellum wax white, excepting
frontal lobe, half of which is pale tan - (see picture) ①

Rio Viejo - Colon Province - Vety. Puerto Pinar - 25 m.
Fls. NUMBER 2/24/47

4252 - ASPERIA PRINCIPISSA Rehb. F. - Sigsbee & Petals pale
green - striped brown - lip pale yellow, with prominent
patches of darker yellow lines from the column.
Column creamy white - (see picture) ①

Rio Matuncillo, Vety. SANTA ROSA - 25 m. Fls. NUMBER
2/24/47

4253 - LORCHARTIA GALLICA Rehb. F. Sigsbee & petals white
Labellum pale yellow - (see picture) ①

Cerro Palmita - at Valle - 1000 m. Fls. NUMBER
2/20/47 -

4254 - MAXILLARIA - S. & J. P. THAI - Frontal lobe of
lip red - brown - ①

4255 - *Scaphyloctis bilineata* (Roth. f.) Safford.

Yocoy, Pinantula Vista - Pinantula Prov. 0 m. (Sea level)
2/18/47

4256 - *Pithecolobium oblongum* Benth. Tree - 4 m.
Fls. white - Fruits red - (14)

Rio Macha - Atorzo - 300 m. v. of El Valle -
Fls. lavender 2/24/47

4257 - *Selenipedium laetifolium* Roth. f. (1)

Peña Blanca - Hot waters of the Rio Lindo - Dept. of Yoro
Honduras - 300 m. Fls. lavender 2/18/47

4258 - *Aconitum quinquevittatum* Kunze et Raven - Fls.
Russet - Vinaceous - (See pickle) (1)

Carro Pajita - El Valle de Antón - 1000 m.
Fls. lavender 2/18/47

4259 - *Leckhartia* - Fls. yellow - tip with orange
catkins at base - (See pickle) (2)

Carro Chiguita - 800 m. Fls. lavender 2/16/47
Collected by Dorothy Allan

4260 - *Tricochloa* sp. Signals red, petals
black - throat brown - labellum just white
with red-brown markings at base. Anthers
off white - white - column white.
(Pickle, ash) (1)

VCTY, SONA-VEKANOAS PROVINCE - 1/23/47

4261 - *Artocarpus lacucha* (Jacq.) Steud. - Small tree - 4 m.
Fls. pink - common along roadside - (4)

VCTY, LA CATORACA - PANAMA PROVINCE - 50 mi 2/28/47

4262 - *Cassia torrida* L. f. - tree - 20 m. Fls. pink - (2)

4263 - *Cassia mesolepta* H. B. K. - tree - 15 m. Fls. burnt orange - (4)

4264 - *Souroubea* - woody liana - (3)

CHIVA - CHIVA ROAD - PANAMA PROVINCE - 100 mi, 3/2/47
woody climber

4265 - *Tabebuia* - tree - 20 m. Fls. yellow - (3)

4266 - *Passiflora vitifolia* HBK. Fls. scarlet -
Common - (1)

4267 - *Miconia macrocarpa* (Benth.) Wedd.
Tree - 15 m. Fls. pink - (2)

4268 - *Barleria micans* Nees - Fls. yellow - (4)

4269 - *Triplaris americana* L. - Fruits dark pink -
Tree - 15 m. (4)

CERRO PLATA - EL VALLE - 1000 m. Fls. lavender
3/1/47 -

Orethia *Platypholis cerisea* de Wulfs.

4270 - Sepals brownish olive, petals pale green,
striped olive, lip near white, slender
lavender on under surface - (see picture) (3)

FLD. NAMBONA

CERRE CHAMPAIN - PONTANA - PROVINCE - 500 m. 3/6/47

4271 - SCAPTELOTTIS sp.

(1)

RIO TEJEWELIN, HONDURAS - FLD. NAMBONA 3/1/47

4272 - NOTYLA JANTHINA ROTH. F. Sepals brown, petals white, with 1-3 minute orange spots, tip white - (SEE PICKLE)

(1)

VCTY. RIO DE JESUS - VERAGUAS PROVINCE - FLD. NAMBONA 3/2/47

4273 - ASPAZIA EPIDENDROIDES LAM. Sepals brown, with whitish margins. petals pale lavender, tip white, with prominent purple blotches. Crest yellow. Column + anthers cap tinged lavender - (SEE PICKLE)

(4)

VCTY. RANONIA, C. 2. 100 m. 3/8/47

4274 - PLATYMISCIUM ? - TREE - 12 m. Fls. orange -

(5)

VCTY. PINONTANA - DARIEN PROVINCE - 20 m. 3/4/47

4275 - COMBRETUM sp. woody liana - calyx red - stamens yellow

(5)

4276 - TRIPLARIS - Fls. white - tree - 10 m.

(3)

4277 - THORNY VINE - TRIMORPHACEAE -

(3)

4278 - PLECTYRHIZOS - VINE - Fls. purple -

(3)

4279 - BURZUMA UMBIFOLIA LAM. - TREE - 10 m.

(4)

4280 - weedy herb - 2 m. Fls. white -

(2)

- 4281 - *Leucaena* - Tree - 30 m. (5)
- 4282 - *Heliconia* - 2 m. Bracts green Fls. Rose Red - Prominently variegated (see picture) (3)
- 4283 - *Rubiacae* - Tree - 30 m. Fls. white - (5)
- 4284 - Tree - 30 m. (2)
- 4285 - *Lauraceae* - Tree - 30 m. (3)
- 4286 - *Anacardium excelsum* (Bart. & Bal.) Skeels. Tree - 25 m. (3)
- 4287 - *Tabebuia pentaphylla* (L.) Hemsl. Tree - 20 m. Fls. pink - (6)
- 4288 - *Convolvulaceae* - Vine - Fls. yellow - (3)
- 4289 - Tree - 10 m. Fls. white - (5)
- 4290 - *Liana* - Fls. white - (4)
- 4291 - *Luetkea Seemannii* Trinia & Planch. - Tree - 30 m. (5)
- 4292 - *Aristolochia grandiflora* Swartz - Vine. Fls. blotched dark purple - (4)
- 4293 - *Petrea volubilis* Jacq. woody liana - Fls. blue - (1)
- 4294 - *Tabebuia kunzeana* (Seem.) Hemsl. - Tree - 25 m. Fls. yellow - (2)
- 4295 - *Bombax Barrington* (Seem.) Delaisne - Tree - 20 m. Fls. white (2)

VCTY. Belweo - Panama Province - 25 m. 2/25/47

- 4296 - *Anacardium excelsum* (Bart. & Bal.) Skeels. Tree - 25 m. Common along streams. (2)

VCTY. Yape - Rio Tuira - Darien Province - 25 m. 3/5/47

- 4297 - *Kouzuia ulmiifolia* Lam. - Tree - 12 m. (3)

- 4298 - COMPOSITE - TREE - 6 m. Fls. pinkish
lavender - leaves greenish - Also seen
on narrow banks of Rio Apitai - common. (8)
- 4299 - woody Herb - 3 m. Fls. yellow - (4)
- 4300 - ^{Rubiaceae} woody Herb - 1 1/2 m. Bracts red - Fls.
yellow - common in banana plantations - (5)
- 4301 - grass - common on riverside banks - (5)
- 4302 - Anarthraceae - Scandent Herb - 3 m.
Fls. white - (3)
- 4303 - Heliconia popayanensis HBK. - TREE -
12 m. Fruits pink - (5)

4304 - CORN - DARIN NO. 1 - Red - cultivated by local
Indians

4305 - CORN - DARIN NO. 2 - yellow.

4306 - CORN - DARIN NO. 3 - Red - DWARF

VCTY. PINOYANA - DARIN PROVINCE - 20 m. 3/4/47

- 4307 - Composite - woody Herb - 2 m. Fls.
white - common - (5)
- 4308 - Heliconia mariae Hook - (1)
- 4309 - ONCIDIUM stipitatum Link. (see pickle)
B.P. yellow - spotted red - brown - sometimes
yellow on both surfaces - (1)
- 4310 - GUSTAVIA SURABA (HIBIKI) Benth. - TREE -
10 m. (3)
- 4311 - Oreopha mexicana HBK. - TREE - 10 m. (2)
- 4312 - Ochroma limonensis Rowlee - TREE - 12 m.
Fls. white - (2)
- 4313 - Heliconia BINAI L. (1)

Cerro Pavita - Region North of La Yolla de Amador
1200 m. Hgt. PANAMA. 3/10/47

4314 - *Polycygnis barbata* (Lindl.) Rehb. f.
S.P. Pale translucent yellow, heavily spotted
red. Labellum white, the lateral lobes spotted
red. Lower mental lobe white, spotted purple. ①
Column green, anther cap purple. (see plate) ①

УСТУ. МАДОН ДАМ, С. 2, 30 м. 3/20/47

4315 - TREE - 25 m. - RARE in cuipo dominated
deciduous forest - LEAVES - (if you don't believe it,
open the seed pods!!) ⑨

УСТУ. ПАСОА - 10 м. 3/16/47

4316 - *Dalbergia retusa* Humb. - TREE - 20 m. Fls.
WHITE - ⑤

"LA VICTORIA" - УСТУ, LA JOYA - PANAMA PROV. 200 m.
3/16/47

4317 - WOODY SEMIWOODY SHRUB. Fls. PINK -
LEAVES - ③

CERRO CAMPANA - 2000 FT. Fls. COLL. GRAMANI FRIEDLÉ
2/10/47

4318 - *Oncidium stipitatum* - (Pickle only) ①
4319 - *Dicranium bidanckianum* (Rehb.) Humb. (Pickle only) ①
4320 - *Epidendrum* aff. *E. nocturnum* - growing on
rocks in full sun. (Pickle only) 8 plants. ①

EL VALLE - 1800 FT. FLD. in the coll. DRAGONI FAIRCHILD
2/15/47

- 4321 - *BOMBORA QUINQUEVARIIS* RUIZ ET PAVON (Pickle only) (1)
4322 - *CATASETUM SCURRA* RHB. F. (Pickle only) (1)
4323 - *DICHAEA* (Pickle only) (1)
4324 - *MAXILLARIA ENDRESII* VAR. *ANGUSTISEGMENTA* (A. S. I.)
SCHWEINF. (Pickle only) (1)

CAVA - CAVA ROAD - 50 M. coll. DRAGONI FAIRCHILD
1/20/47

- 4325 - *EPIDENDRUM SCHLANTERIANUM* KULES - (Pickle only) (1)

CERRO CAMPANA - 1000 FT. FLD. coll. DRAGONI FAIRCHILD
1/20/47

- 4326 - *EPIDENDRUM STAMFORDIANUM* BATEM. (Pickle only) (1)
4327 - *MAXILLARIA* (Pickle only) (1)
4328 - *MORMODAS IANUUM* LINDL. (Pickle only) (1)

VAL. BEJOCO - 25 M. FLD. coll. DRAGONI FAIRCHILD
2/15/47

- 4329 - *ONCIDIUM AMPLIATUM* LINDL. (Pickle only) (1)
4330 - *ONCIDIUM STIPITATUM* ? - (Pickle only) (1)

CERRO CAMPANA - 2000 FT. FLD. coll. DRAGONI FAIRCHILD - 3/15/47

- 4331 - *EPIDENDRUM ONCIDIODES* ? (Pickle only) (1)

VCTY. SANTA FE - VERAGUAS PROVINCE - FORESTED SLOPES
OF CERRO TUTÉ - 3000 FT. 3/24/47

- 4332 - Bromeliad - Epiphytic - Same as on Cerro Pasita
& Cerro Trinidad. (1)
- 4333 - Heliconia - INFLO. pendulous - apical 1/2 of
bracts dark red - basal 1/2 yellow - 3 m. (1)
- 4334 - Papuromia - Epiphytic - (1)
- 4335 - Columnnea - Epiphytic - calyx white - (1)
- 4336 - Elleanthus linifolius Presl ?? fruiting spec. (1)
- 4337 - Elleanthus divifolius Presl ?? fruiting spec. (1)
- 4338 - Maxillaria - (coll. by Edmund Fairchild) S.P.P.
white - lip white, the frontal lobe yellow.
(see pickle) (1)
- 4339 - Sedge - in heavy forest - (3)
- 4340 - Cavendishia - Epiphytic shrub - 2 m.
bracts pink - fls. lavender - (9)
- 4341 - Tree - 15 m. fls. white - also on
crest of Cerro Pasita - (5)
- 4342 - Acanthaceae - woody herb - 2 m. fls. red (3)
- 4343 - Cavendishia dactyloides A.C. Smith - (3)
Epiphytic shrub - 1 1/2 m. bracts pink -
fls. pale yellow -
- 4344 - Spiranthes navarrensis (Ames) L. Wms.
fruiting specimen - (1)
- 4345 - Rubiaceae - shrub - 2 m. fls. blue - (7)
- 4346 - Lobeliaceae - Epiphytic herb - 3/4 m. (1)
- 4347 - Melastomaceae - woody herb - 1 m.
fls. pink - (1)
- 4348 - Cephaelis punicea Sw. - tree - 5 m.
bracts orange-red - (4)
- 4349 - Centropogon - scandent shrub - 3 m.
fls. red-tipped orange yellow - (1)
- 4350 - Gesneriaceae - herb - 1 - 1 1/2 m.
fls. white - monopyle. (4)
- 4351 - Gesneriaceae - Epiphytic herb -
fls. white - (1)

- 4352 - OLUSIACEAE - TREE - STILT ROOTS - 20 m. Fls. WHITE - STAMENS yellow - GRAFT LATEX. (6)
- 4353 - PSAMMISIA - BRANCHING EPiphytic SHRUB - 4 m. COROLLA CORAL PINK - TIPPED WHITE. (4)
- 4354 - ERICACEAE - EPiphytic BRANCHING SHRUB - COROLLAS CORAL PINK WITH DARK GREEN TIPS. (4)
- 4355 - MELASTOMACEAE - TREE - 75 FT. Fls. WHITE - ALSO ON CREST OF CARRO JALITA. (6)
- 4356 - SMILACINA PANICOLATA - Fls. WHITE (1)
- 4357 - BESONIA LABRA AUBL. ?? - CHIMBINN ? ROOTING ON TREES - Fls. WHITE. (1)
- 4358 - CUCURBITACEAE - LIANA - Fls. BRIGHT ORANGE. (1)

YCT4. SANTA FE - FORESTED SLOPES OF CARRO TUTA - 2500 FT. 3/25/47 - WITH GRAHAM FAIRCHILD

- 4359 - EULMANIA QUATEMANENSIS L. B. SMITH. (2)
- 4360 - BROMELIAD - EPiphytic. (1)
- 4361 - BROMELIAD - EPiphytic. (1)
- 4362 - COSTOS - 1 1/2 m. BRANTS RED - Fls. RED. (1)
- 4363 - BROMELIAD - EPiphytic. (1)
- 4364 - EPIDENDRUM - Fls. GREEN - (SEE PICKLE) (1)
- 4365 - EPIDENDRUM CRYPTANTHUM L. WINS. (SEE PICKLE) Fls. WHITE. (1)
- 4366 - COSTOS - BRANTS RED - KAPLERS. (1)
- 4367 - BONAREA Allenii Killip - VINE - Sepals Shell pink - Jaws pink, SYMPLODEAN. (3)
- 4368 - RONDELETIA - TREE - 18 FT. Fls. PINK. (8)
- 4369 - CENTROPION NUTANS - LAX SHRUB - 3 m. Fls. PINK. (1)

- 4392 - CARICACEAE - TREE - 7 m. FL. WHITE - (6)
- 4393 - PLATYLOTIS CERISEA L. WALS. (SEE PICKLE) (3)
- 4394 - RUBIACEAE - GIANT WOODY LIANA - FL. WHITE - FRAGRANT - (5)
- 4395 - BROMELIAD - EPiphytic - (1)
- 4396 - RUBIACEAE - TREE - 8 m. FL. PURPLE - COMMON - (3)
- 4397 - GRASS? FL. WHITE - (1)
- 4398 - BROMELIAD - EPiphytic - (2)
- 4399 - RUBIACEAE - SHRUB - 4 m. FL. YELLOW - (2)
- 4400 - LYCASTE MACROPHYLLA LINDL. (SEE PICKLE) (1)
- 4401 - ODONTOMMA STRICTUM (NEES) KUNTZE - WOODY HERB - 1/2 m. FL. RED - (1)
- 4402 - ACANTHACEAE - FL. LAVENDER - (1)
- 4403 - MALIACEAE - TREE - 15 m. FL. WHITE - (1)
- 4404 - ARDISIA SEIBERTII - SHRUB - 4 m. FL. LAVENDER - (4)
- 4405 - MAXILLARIA - 8-9 ft. WHITE - LIP RED - BROWN - FOLIAGE BRUSH GREEN - (SEE PICKLE) ALSO ON CARRO PASITA - (5)
- 4406 - PLEUROTHALLIS - (SEE PICKLE) (1)
- 4407 - TUDORANIA DISSITIFLORA (ANDRE) L. B. SMITH (1)
- 4408 - HELICONIA - INFLO. UPRIGHT. BRACTS BLOOD RED - FL. YELLOW - (1)
- 4409 - EPIDENDRUM - POSSIBLY NEW - (SEE PICKLE) (1)

- 4410 - ~~SPERMATOPHYTES~~ - EPiphytic SHRUB - 15 CM. Fls.
 Pale PINK. (SEE PICKLE) (1)
- 4411 - PLEurothallis - (SEE PICKLE) (1)
- 4412 - PLEurothallis (RESTYRIA) (SEE PICKLE) (1)
- 4413 CEIBA Allenii WOODSON - TREE - 20 M. (2)

YCTY, SANTA FE - RIO SANTA MARIA - YEMARUAS
 PROV. 1000 FT. 3/26/47

- 4414 - EPIDENDRUM ATROPURPUREUM VILLD. (2)
- 4415 - AJEIBA TIBOURBOU AUBL. TREE - 6 M. (3)
- 4416 - BOMBACOPSIS - TREE - 12 M. COMMON. (3)
- 4417 - INRA - TREE - 8 M. Fls. WHITE. (5)
- 4418 - TRICONIA ARGENTEA (SWARTZ) DC - TREE - 4 M.
 COMMON. (4)
- 4419 - TROMBOS FANRUM LINDL. Fls. OLIVE GREEN. (1)
- 4420 - BRASSAVOLA NOBOSA LINDL. (1)
- 4421 - OCHROMA LIMONENSIS - TREE - 10 M. (1)
- 4422 - CECROPIA MEXICANA - TREE - 10 M. (2)
- 4423 - FLAPHTRIUM SIMARUBA (L.) ROSE - TREE - 15 M. (3)
- 4424 - ANACARDIUM EXALSUM (BERT. & BAIL.) SKEELS - (2)
- 4425 - COMPOSITE - WOODY HERB - 2 M. Fls. WHITE (5)
- 4426 - CAESALPINIACEAE - WOODY HERB - 1 1/2 M. Fls. YELLOW. (4)

4427 - *HYMENAEA OENANTHIFOLIA* - TREE - 10 MI.

(1)

4428 - *VANILLA PLANIFOLIA* ANDR. FL. YELLOW -

(2)

4429 - *LECKARTIA* - FL. YELLOW - COMMON.

(1)

4430 - *PARATROPIS SCHIEDERIANA* CHAM. COMMON ON
ROCKS IN STAGNANT FL. PINK -

(1)

YCTY, PINOYANA - DARIEN PROVINCE - 3/4/47

4431 - *JACARANDA COPAIA* - FL. BLUE - TREES - 20 MI.

(6)

YCTY, SANTIAGO - VERACRUZ PROVINCE - 3/28/47

4432 - *BYRSONIMA CRASSIFOLIA* (L.) HBK. TREES - 10 MI.

(2)

YCTY, DIVISA - 25 MI. 3/28/47

4433 - *SAManea SAMAN* - TREE - 20 MI. FL. PINK -

(2)

YCTY, SANTA FE' - VERACRUZ - 1000 FT. 3/26/47

4434 - *CASSIA GRANDIS* - FL. PINK - TREES - 20 MI.

(1)

4435 - *ANDIRA INERMIS* - TREES - 15 MI. FL. LAVENDER.

(3)

4436 - *BYRSONIMA CRASSIFOLIA* - TREE - 10 MI.

(1)

4437 - *SAManea SAMAN* - TREE - 20 MI. FL. PINK.

(3)

4438 - QUASSIA AMARA - SMALL TREES - 4 m. FL. PINK -
FORMING THICKETS UNDER LARANA TREES ALONG RD
SANTA MARIA -

(2)

4439 - TREE - 15 m. FL. RASIN PURPLE - LEAVES -

(4)

4440 - EPIDENDRUM IMATOPHYLLUM LINDL. - FL.
ROSE PURPLE - GROWING IN ANT NESTS ALONG
STREAMS -

(4)

REGION WEST OF SANTA FE - DRY SLOPES OF CARRO
TOTE - 1500 FT. - 3/25/47

4441 - CHRYSOPHYLLUM - TREE - 20 m.

(5)

4442 - BIJONIAEAE - LIANA - FL. TRAVEL - PLANT IN
PRESS WITH A STRONG ONION ODOR -

(5)

CARRO PASITA. EL VALLE - 1200 m. FL. TAMBOA
4/9/47

4443 - PLAUROTHALLIS - SEE PICKLE

(1)

CARRO ULUCA - VCTY. EL ZAMORANO - HONOURAS -
5000 FT. FL. TAMBOA 4/8/47

4444 - BALEANDRA - EPYPHYTIC ON OAKS - SIF P. VERY
PALE GREEN - LIP WHITE, WITH PALE GREENISH YELLOW
SPUR - TWO FAINT PINK LINES INSIDE THE LIP,
COLUMN PURE WHITE - (SEE PICKLE)

(1)

CARRO PASITA - EL VALLE - 1200 M. FLD. TAMBOCA
4/6/47

4445 - *Pleurothallis* - FLS. PINK PURPLE -

①

RIO MATA - AMORADO - 1500 FT. FLD. TAMBOCA 4/2/47

4446 - *Selenipedium longifolium*

①

CARRO CAMPANA - 2500 FT. HEAVY FOREST - FLD.
TAMBOCA 4/2/47

4447 - *Pescatorea curina* ROHB. F.

①

VCTY. RIO DE JESUS - FLD. TAMBOCA 3/20/47

4448 - *Epidendrum atropurpureum* - (SEE PICKLE)

①

RIO LINDO - MONOURAS - FLD. TAMBOCA 4/2/47 -

4449 - FLS. ORANGE - SEE PICKLE -

①

EL VALLE - FLOOR - 1800 FT. FLD. TAMBOCA 3/20/47

4450 - *Maxillaria charticifolia* A. G. S.,
FLS. PINKISH BROWN - (SEE PICKLE)

①

VCTY, PACERA - FLD, SANBOA 3/20/47

4451 - ONCIDIUM STIPITATUM - S & P. yellow, blotched
red-brown - frontal & lateral lobes of lip bright
yellow on both surfaces. callus slightly blotched
tan. (see pickle) (1)

VCTY, CASA COLORADA - Hills south of Managua,
NICARAGUA - 1000 ft. FLD. SANBOA 4/1/47

4452 - ONCIDIUM STIPITATUM? - S & P. yellow - spotted
red-brown - lip yellow on both surfaces
excepting for a central line of red dots on
underside - (1)

VCTY, DAVID - CHIRIQUI PROVINCE - FLD, SANBOA
3/20/47

4453 - ONCIDIUM STIPITATUM - ? - S & P. heavily blotched
red-brown. frontal & lateral lobes of lip yellow,
callus brown - undersurface of frontal lobe of
lip heavily spotted red-brown. (see pickle) (1)

Hills near "La Joya" - PANAMA PROVINCE -
4/13/47

4454 - BIGNONIACEAE - 2000 ft. hills - FLD, SANBOA - (4)

Cerro Campana - 2000 M. Flo. Amber 3/20/47

4455 - *Trichocentrum* -

(1)

Ycty. El Zamorano - Honduras - Flo. Amber
3/20/47

4456 - *Epidendrum encicloidides* - on pines - S.P.

Red-brown. Lateral lobes of lig. pale green -
tinged purple on outer surfaces. Frontal lobe
pale yellow, brachely veined purple. Column
white, shading to purple at base. Anther
way yellow - (see picture)

(1)

Ycty. Pico - Flo. Amber 4/10/47

4457 - *Oncidium stipitatum* -

(1)

Rio Tapachula - Honduras - Flo. Amber
4/20/47

4458 - *Notylia guatemalensis* -

(2)

Ycty. National Airport - 4/13/47

4459 - *Yobesia farauhinia* - tree - 15 m. Fls. Orange (2)

4460 - *Jacaranda copala* - tree - 20 m. Fls. Blue (2)

4461 - *Byrsonima crassifolia* - tree - 10 m. Fls. Yellow (2)

HILLS NEAR LA JOYA. 2000 FT. 4/13/47

4462 - JACARANDA COPAIA - TREES - 20 m. FL. BLUE - (10)

CURRO PASITA - HILLS NORTH OF EL VALLE
1200 m. FL. RAINBOW 4/12/47

4463 - EPIDENDRUM TROYO BANIBAE KRANZL. - SIMP.
FL. GREEN, LIP WHITE - (SEE PICKLE) (1)

4464 - SOBRALIA BOUCHERII A. & S. (SEE PICKLE) (1)

HILLS NEAR DANIBOA, C. 2. 300 FT. 4/15/47

4465 - JACARANDA COPAIA - TREES - 20 m. FL. BLUE - (2)

HILLS NEAR PURO TTIWUK. C. 2. 300 FT.
4/20/47

4466 - JACARANDA COPAIA - TREE - 20 m. FL. BLUE - (4)

YCTY, TTIWUKEN DAMI. C. 2. 150 FT.
4/18/47

4467 - JACARANDA COPAIA - TREE - 20 m. FL. BLUE - (3)

BALBOA, C.R. 4/20/47

4468 - TREE - 20 m. CULTIVATED AS POLYEPHORUM
FERRUGINEUM - FL. YELLOW - (4)

4469 - EPIDENDRUM CACIDIOLIS - S.P. GREEN - LIP
GREENISH WHITE. COLUMN DARK RED-BROWN.
(SEE PICKLE) (1)

EL VALLE - FLOOR - 1800 FT. 4/8/47

4470 - ANDIRA INRAMIS - TREES - 12 m. FL. ^{PINKISH} LAUREL - (5)
4471 - CASSIA FRANKIS - TREE - 15 m. FL. PINK - (4)
4472 - ANDIRA JAMAICENSIS - TREE - 10 m. FL. PINK - (1)
4473 - PASSIFLORA - FL. GREENISH WHITE - (3)
4474 - SAPINDACEAE - VINE - IN SECOND GROWTH SCRUB, (2)
4475 - VINE - (4)
4476 - SCAPHYLOTTIS - (1)

HILLS SOUTH OF EL VALLE - 2500 FT. 4/8/47

4477 - TABEBUIA HETEROTRICHIA (DC) Hems L. - TREE
15 m. FL. YELLOW - (2)

EL VALLE - JAMA DAL TIENE - 1000 M. 4/8/47

4478 - CARICA sp. tree - 6 m. in heavy forest - (2)

4479 - COLNARCA - UNUSUALS OF LEAVES RED - (1)

4480 - EPIDENDRUM ENCLIDIOIDES - SEP. P. TEND. LIP WHITE,
STAMENS PURPLE - (SEE PICKLE) (1)

4481 - CAUCULISMA - EGYPTIAN SHADE. 1/2 M. (1)

VCTY, BELUCO - 4/12/47

4482 - ANDIRA INERMIS - TREES - 70 50 FT. FLG.
LAVENDER - (4)

VCTY, CHORRERA 4/12/47

4483 - TABERNA MENTROTRICHA TREE - 18 M. FLG.
YELLOW - (2)

4484 - BYRSONIMA CRASSIFOLIA - TREE - 10 M. FLG.
YELLOW - TURNING BURNT ORANGE WITH AGE
VERY COMMON - (2)

VCTY, SINUATEJQUE, KANSIME - 5000 FT.
FLO. RANCOA 3/20/47

4485 - BOSTIA - SEP. P. TEND. LIP WHITE - INTERNAL LICE OF
LIP PURPLE - WITH RAISED YELLOW KEELS, THE
LATERAL LOBES STRIPED RED ON THE INNER
SURFACES - (SEE PICKLE) (1)

Cerro Campana - 2000 Ft. Flo. Dambora 4/2/47

4486. *Epidendrum ionophlebium* R. & S. - S. P. GREENISH
WHITE - lip WHITE, lined ^{RADISH-} purple - (SEE PICKLE) (3)
- 4487 - *Platrotallis* - Fls. CREAM WHITE. (1)
- 4488 - *Oncidium stipitatum* - (1)

VCTY. ARRANJAN - 4/14/47

- 4489 - *Jacaranda rhombifolia* R. & S. - TREE -
20 M. Fls. BLUE, WITH WHITE SPOT INSIDE
COROLLA. (Flowers only) (1)

VCTY. CHORRETA - 4/14/47

- 4490 - CORN - CULTIVATED ON OUTSKIRTS OF TOWN - USED
TO FATTEN PIGS & CHICKENS. SOME SAY THEY
HAVE SEEN THEM BUT A SHORT TIME &
THIS IS THEIR FIRST CORN CROP. PURCHASED
SEED FROM A NEIGHBOR -

El Valle - VCTY. LA MERCA - 1000 FT. 4/8/47

- 4491 - CORN - COMMON YELLOW - SMALL EARS -

NOTES TO HERE SENT WOODSON 5/7/47

77111111 ROAD - VERY SUMMIT - 5/4/47

- 4492 - BODMANIA AESCULIFOLIA (HBK) STANDL.
(SEE FOSBERG 27394) TREE - 12 M.
FLS. TAN - (9)

CARRO PASIYA - EL VALLE DE ANDON - 3500 FT.
5/12/47

- 4493 - BRONCHIAL - TERRESTRIAL ON STEEP BANKS - (1)
4494 - ? ? ? ? ? ? ? ? - TERRESTRIAL HERB - (1)
FLS. BRIGHT PINK - (4)
4495 - ASCLEPIAD - CORKY VINE - FLS. YELLOW - (2)
4496 - EPiphyTIC SHRUB - 6 FT. FLS. PURPLE - (1)
4497 - TREE - 10 FT. FLS. YELLOW -

CARRO PASIYA - 3000 FT. 5/12/47

- 4498 - TREE - 30 FT. FLS. WHITE - (18)

CARRO PASIYA - 2000 FT. 5/12/47

- 4499 - ORANOSIA JANAMENSIS.
LENOUVE - ANDIRA? - VERY LARGE TREES -
90 FT. FLS. LAVENDER - FRUITS
COMMON - (20)

EL VALLE CHIRIQUIO - ^{1800 FT.} FLD. TAMBOA 5/14/47

4500 - CYCNOCHAS DIANA. (SEE PICKLE) (2)
S + P. GREEN. SPOTTED RED-BROWN - LIP WHITE.

YOPY, DAVID - CHIRIQUI PROVINCE - FLD.
TAMBOA 4/29/47

4501 - EPIDENDRUM - AFF. E. JANGENSE - S + P.
GREENISH YELLOW TO TAN. LIP WHITE -
(SEE PICKLE) SEE PHOTO - (6)

YOPY, PAOLA - 150 FT. FLD. TAMBOA 5/8/47

4502 - CATASETUM VIRIDIFLAVUM - (STAMINATE MS.) (1)

CERRO CAJUPANA - 2500 FT. FLD. TAMBOA 4/23/47

4503 - PLEUROTHALLIS - MS. TRANSLUCENT - S + P.
& LIP. HEAVILY STRIPED & SPOTTED PURPLE - (1)
(SEE PICKLE)

YOPY, PROGRESO - CHIRIQUI PROVINCE ^{500 FT.} FLD.
COLL. HARRY DANN - 5/9/47

4504 - CATASETUM NEUROCAJUPAI - LIP VERY HEAVILY
SPOTTED RED-BROWN. S + P. VERY DARK
RED-BROWN - (SEE PICKLE) (1)

VERY REMAINS - CHIROPUI PROVINCE 100 FT.
FL. NAMBOA 5/9/47

CAUSTIC

4505 - CATASETUM ~~THALICTRIFOLIUM~~ - Lip GREEN-LIGHTLY
SPOTTED RED-BROWN - S.I.P. SPOTTED RED-BROWN -
(SEE JICKLE) CAUSTIC (1)

4506 - CATASETUM ~~THALICTRIFOLIUM~~ - SMALL FL. DARK
PHASE - (1)

CARRO TUTE - Hills WEST OF SANTA FE
VERAGUAS - 2500 FT. FL. NAMBOA 5/9/47

4507 - STANNHOFFIA POLKA? - Sepals pale yellow
petals yellow. Lip TAN - MARKED & MARSHED
RED-BROWN. REDDISH BROWN CALLUS -
(SEE JICKLE) COMMON SEE PHOTO (1)

4508 - ELLEANTHUS - HYPHENOPHORUS REHB. F.
Fl. yellow - Lip EDGED ORANGE - (1)

4509 - PESCATORGA CARINA REHB. F. (1)

CASITAS, Dept. del PARAISO 2500 FT.
HONDURAS - ~~NOTES SENT~~
~~2000 FT~~
~~IN 1947~~

VCTY. ~~El Zamorano~~ - ~~HONDURAS~~ 2500 FT.

FLD. TAMBOA 5/14/47

BRASSAVOLA CUCULLATA R. BR.

- 4510 - EPIDENDRUM - LEAVES TUCKER. S & P. yellow,
NARROWLY EDGED BROWN - FRONTAL LOBE OF LEAF
YELLOW - NARROWLY MARRINGED BROWN - LATERAL
FRINGED LOBES. S - LEAF & COLUMN PURE WHITE -
(SEE PICKLE) ALSO SEE PHOTO - (1)

Cerro Patiya - 3500 FT. 5/12/47

- 4511 - CYCLANTACEAE - STOUT EPiphytic plant - common. (2)

VCTY. Summit, C. 2. 5/18/47

- 4512 - RUBIACEAE - TREE - 20 FT. FL. creamy white,
FRAGRANT - FAIRLY FREQUENT in clear second
GROWTH ALONG ROAD - (10)

VCTY. Beluco - 5/22/47 - DRY deciduous
SCRUB -

- 4513 - LANTANA - SHRUB - 4 FT. FL. very pale pink -
COMMON - (2)

4514 - STIGMAPHYLLON ellipticum (HBK) Juss.

VINE - FL. yellow - (1)

- 4515 - ^{BURSERA TOMENTOSA} PROTIUM ? - TREE - 15 - 20 FT. Deciduous during
DRY SEASON - SOMETIMES USED FOR FENCE POSTS - common. (17)

YUCY. Summit, C. 2. 500 FT. Heavy Forest -
5/23/47

- 4516 - CORKY VINE - FLS. DULL RED. ^{milky} SAP CAUSTIC
ARCEUTHINACEAE - (10)
- 4517 - TURNERA PANAMENSIS URBAN - SHAUB -
8-10 FT. FLS. BRANDE - VERY SHOWY - (10)
- 4518 - MELASTOMACEAE - SHRUB - 8-10 FT. FLS. WHITE -
VERY COMMON ON EDGES OF SCRUB IN ATINER
MARS - (3)
- 4519 - MELASTOMACEAE - SMALL ROUNDED TREE -
20 FT. FLS. WHITE - (4)

ANCEN Hill - C. 2. 200 FT. 5/24/47

- 4520 - TABEBUIA HETEROTRICHA TREE - 60 FT. FLS.
YELLOW - (1)
- 4521 - ANNONA - SPREADING DECIDUOUS TREE -
25 FT. (1)

PACIFIC lowlands - FLD. BOLL. NRAMAN FAIRCHILD -
5/29/47

- 4522 - ONCIDIUM - PLANTS IDENTICAL WITH O. PANAMENSIS -
SAP YELLOW - BARRED BROWN - LIP BRIGHT YELLOW -
SEE PHOTO & PICKLE - (1)

Cerro Campana - 2000 ft. Flo. Nambuoa 5/23/47

4523 - *Epidendrum eburneum* Rob. F. - Sepals pale tan -
Petals pale cream yellow - lip pure white - , with
Basal BRIGHT yellow callus - (see pickle & photo) ①
growing on rocks in full sun -

Yoty, Pico - 50 ft. Flo. Nambuoa 5/14/47

4524 - *Catasetum viridiflavum* Hook - 3 IP.
GREEN - lip GREEN - with slight yellow shading
on inner surface - (see pickle) ①

Rio Terehuetan, Honduras - Flo. Nambuoa 5/14/47

4525 - *Epidendrum cochlearatum* L. - 3 IP. pale green
OUTER ^{SURFACE} 2/3 lip deep purple - Basal 1/3 pale
GREEN - INNER SURFACE OF lip 2/3 deep purple
1/3 BASE WHITE, with purple lines - center
of lip with yellow wash over purple -
(see pickle) ①

Rio Mata Ahogado - 1500 ft. Yoty, El Valle
Flo. Nambuoa 5/14/47

4526 - *Dycaete Brewispatha* Kl. - Sepals very
pale green - spotted pink - Petals & lip white, spotted
pink - (see pickle & drawing) ①

HILLS SOUTH OF MANAGUA, NICARAGUA - 1000 FT.

FL. MANABOA 5/18/47 -

4527 - BRASSAVOLA - S & P. juke green - lip white - (1)

Upper Rio Chico - DARIEN PROVINCE - 6/13/47

4528 - CORN - MEDIUM SIZED EARS, GRAINS BLACK & DARK
RED - Kept SEPARATE & USED FOR CHICHA -
will NOT pop.

4529 - CORN - LARGE EARS - GRAINS ORANGE - FOUND IN
MIXED LOT -

4530 - DARIEN - DWARF yellow - WITH SPATTERED purple
& black GRAINS - FOUND IN MIXED LOT. A POP
CORN - BETTER THAN 4531 - BEST

4531 - CORN - DWARF RED - A CHICHA CORN - ALSO
A POP CORN - ~~ALTHOUGH~~ APPARENTLY NOT USED IN DARIEN
AS SOFT - POPs well.

4532 - CORN - LARGE GRAINED DARK ORANGE - THIS
WAS BEING GROUND TO MAKE A SWEET
PASTE - SEE DIARY & PHOTO -

4533 - CORN - DWARF - GRAINS PINK TO DARK RED -
FOUND IN MIXED LOT - WILL NOT POP

4534 - CORN - LARGE EAR - LARGE GRAINS - purple,
yellow & white - IN MIXED LOT -

4535 - CORN - DWARF EAR - PURPLE, WHITE, RED
& TAN GRAINS - IN MIXED LOT -

4536 - CORN - SHORT STOUT EAR - PURPLE, WHITE,
YELLOW & PINK GRAINS -

4537 - MEDIUM SIZED EAR - GRAINS ALL NEARLY
BLACK - VERY UNIFORM REUS - IN MIXED LOT -
would NOT pop.

4538 - CORN - DWARF EARS - GRAINS DARK CRAMPT, WITH
SCATTERING GRAINS OF A VERY DARK RED -
IN MIXED LOT. Also A pop CORN - BETTER THAN
NO. 4531

4539 - DWARF EARS - GRAINS - PURPLE, DARK PINK,
& WHITE - IN MIXED LOT -

4540 - CORN - MEDIUM SIZED EARS - GRAINS MIXED
RED & BLACK - MIXED IN BIN WITH 4528

4541 - CARRI'BEAN YELLOW -

4542 - CORN - LARGE EAR - ORANGE GRAINS - IN
MIXED LOT -

4543 - CORN - LARGE EAR - ORANGE & BROWN GRAINS
IN MIXED LOT -

4544 - CORN - LARGE EAR - ROUND BRANDED GRAIN -

4545 - CORN - SHORT STOUT EAR - ORANGE GRAIN -

4546 - CORN - DWARF EAR - LARGE CHOCOLATE - BRANDED
GRAINS - IN MIXED LOT -

RIO PACORA - V. H. J. PACORA - O. H.
FLD. COLL. DRAGON FAIRBANKS - 4/15/47

4547 - ONOCLEA VANMENSE SCHULT. - Fls. only -
Pickled only - (1)

CURRO CAMPANA - 2400 FT. - FLD. COLL.
DRAGON FAIRBANKS - 5/10/47 -

4548 - EPIDENDRUM BREVIFLORUM - pickled only - (1)

PACIFIC COAST LOUISIANA (PACORA?)
100 FT. FLD. COLL. DRAGON FAIRBANKS 5/10/47 -

4549 - ONOCLEA PSEUDO-BOLLE identical with those
of O. pseudocast. pickled only - (1)

CURRO CAMPANA - 2500 FT. FLD. COLL.
DRAGON FAIRBANKS 5/1/47 -

4550 - LYCASTE - pickled only - (1)

RIO MATTA. ANCHERO - 1200 FT. FLD. COLL.
WRAHAM FAIRBRIDGE. 3/15/47

4551. LYCASTE BREVISPISTA. PICKLE ONLY. (1)

HILLS SOUTH OF EL VALLE. 2000 FT.
FLD. COLL. WRAHAM FAIRBRIDGE. 3/12/47

4552. ONCIDIUM CONFUSUM? - PICKLE ONLY (1)

HEADWATERS RIO ULLICO - DARIEN PROVINCE - 150 FT.
6/10-15/47

4553. ZAMIA - SHORT TRUNK. NEARLY BURIED IN
THE GROUND - ABOVE GROUND PART OF TRUNK
4" - IN HEAVY FOREST. (1)

4554. ZAMIA - STERILE. TRUNK BRANCHED, 6 FT.
TALL. SEE PHOTO. (1)

BARBOA, C. R. MAY 12, 1947

4555. CASSIA SUTANNA - TREE - FL. YELLOW -
30 FT. CULTIVATED. (2)

Very Summit, C. 2. May 14, 1947

4556 - *Melastomaceae* - SHrub - 5 FT. Fls. white,
with red stamens - common on cut over
land. (8)

Cerro Campana - 2000 FT. Fls. RAMBOA 5/26/47

4557 - *Stenhopia* - S.P. pale yellow, yellow rose
purple - column broadly winged, termination
in two horns exceeding the pollinia in
length, color pure white, flaked red-brown -
lip creamy white, spotted purple. SEE
pickle & PHOTO (7)

4558 - *Epidendrum* - AFF. E. FRANKS - S.P. creamy
white, lip white, with purple stripes
FRANKS. SEE pickle - (2)

Cerro Campana - 2500 FT. Fls. RAMBOA
6/20/47

4559 - *Crucifera* - epiphytic - Fls. pure waxy white,
inner lip waxy & spotted yellow - SEE
plate, pickle & PHOTO - FRANKS. (1)

HILLS EAST OF PANAMA CITY - VEGET. OF PANAMA
1000 FT. FLO. PANAMA 6/3/47

4560 - BRASSIA - SEE PICKLE - PHOTO & SPECIMEN (1)
2-LEAVES

EL VALLE - LOMA DEL TIENE - 3000 FT. FLO.
PANAMA 5/26/47

4561 - EPIDENDRUM, AFF. E. NOCTURNUM - (1)

4562 - BRASSIA LANCEOLATA? ONE LEAF - SEE PHOTO,
PICKLE & SPECIMEN - C. & P. GREENISH (1)
YELLOW, BLOTCHED I. & BROWN NEAR BASE,
Lg pale yellow, SPOTTED RED-BROWN IN CENTRAL
BASEL PORTION - FUTURE ON CARET PLANTS -

EL VALLE - CERRO PANITA - 3400 FT. FLO.
PANAMA 5/25/47

4563 - PLACODIUM AFF. P. COLOMBIENSES - (2)

CERRO TOTE', RENTON WEST OF SANTA FE
VERAGUAS, - 2500 FT. FLO. PANAMA 5/26/47

4564 - PESCATORA CURINA - (2)

CERRO TUTE - REGION WEST OF SANTA FE VERMONT
3000 FT. Flo. RAMBA 6/20/47

CATAGETUM SUAVE A.F.S.

4565 - ORCHID - Epiphytic - identical in VEGETATIVE
APPEARANCE with NO. 4559. Fls. purple
waxy white. Inner lip spotted purple.
Slightly scented, like a strong
oil soap. See photo & sketch pickle. (1)

4566 - *Episcorpus difformis* - Fls. green - (1)

Very, Santa Fe - VERMONT PROV. 1000 FT.
Flo. RAMBA 6/24/47

4567 - *Lycaste brevispina* - ON TREES ALONG RIVER - (1)

Rio Tepenectin - VERMONT - Flo. RAMBA
6/24/47

4568 - *Episcorpus cernuatum* - (1)

4569 - *Cyclopogon dianae* - (SEE PICKLE) (1)

SIRUKTEPEQUE HONDURAS - 5000 FT. - ON
PINES - FLD. LAMBOA 6/12/47

4570 - TAXILLARIA - fls. yellow. (see pickle) (2)

CARRO U YUCA - VCY, EL ZAMBRANO - HONDURAS -
5000 FT. FLD. LAMBOA 5/26/47

4571 - CATASITUM - (CHECKED) ^{MEXICO TO}
^{HONDURAS.} S 19 P. pale green, slightly
spotted red-brown - light green on outer
surfaces, dark red-brown within.
SEE PHOTO & PICKLE. (2)

(Pickle deposited in the Ames Herb. collection)

VCY, LAMBOA 5/26/47

4572 - FENOPIA'S VITICIDARICIDES - SEE PICKLE (1)
Fls. lavender -

VCY, Summit, C. 2. 6/25/47

4573 - STRYCHNOS PANAMENSIS ^{SEEM} WOODY Liana -
Fls. white - FRUIT - (9)

Rio Chico, Vozg. Yaviza, Darien Province
E/9-11/1947

- 4574 - COSTUS - 9 FT. BRACTS RED - (1)
- 4575 - Bromeliad - PTEROPHILA, FORMING DENSE
COLONIES ON STEEP BANKS ABOVE RIVER - (1)
- 4576 - TREE - 30 FT. FL. WHITE, RUBIACEAE - (10)
- 4577 - BIGNONIACEAE - Weedy plant - FL. WHITE -
"TORTUGA" - (6)
- 4578 - APURVA ASPERA - TREE - 60 FT. FL.
YELLOW - (6)
- 4579 - ARDISIA ^{PALMATA} - TREE - 30 FT. FL. VERY PALE
PINK WITH YELLOW STAMENS - (6)
- 4580 - LAURACEAE - TREE - 95 FT. FL. WHITE -
"SIRUA" - (16)
- 4581 - LANTANA - HERB - 6 FT. FL. ORANGE - (2)
- 4582 - CLIBADIVUM - SHrub - 6-8 FT. FL. WHITE -
VERY COMMON - LEAVES REPORTED TO BE USED
AS A FISH POISON - (4)
- 4583 - RONDELICIA P. - Small TREE - 12 FT. FL. WHITE -
IN HEAVY FOREST - (2)
- 4584 - SELAGINELLA - FORMING TALL THICK COLONIES
IN WET, SHADED PLACES - (2)
- 4585 - TACA ^{CALANSIANA} - TREE - 60 FT. FL. WHITE - (6)

- 4586 - TREE - 60 FT. REPORTED AS NOT USED FOR RUBBER. (3)
- 4587 - WOODY HERB - 8 FT. LOCAL NAME - "HUI-CHI-CHI" (1)
- 4588 - VITEX ^{MADONIANA} - TREE - 75 FT. ON LOW ROCKY RIDGE ABOVE RIVER. F.L. BLUE. INFREQUENT. "PU-PU-CHI" (8)
- 4589 - FIGS - TREE - 65 FT. COMMON ALONG RIVER BANKS. (3)
- 4590 - AEROID - TERRESTRIAL, ON STEEP BANKS. SPATHES GREEN - SPADIX YELLOW. INFREQUENT. (1)
- 4591 - HURA CREPITANS - F.L. RED - TREE 65 FT. COMMON. (1)

DARLEN PROVINCE
HEADQUARTERS Rio Chico - 750 FT. 6/12-13/57.

- 4592 - URERA - SMALL TREE - 20 FT. IN WET, DARK FOREST. FRUITS WHITE. A MILD TASTE. (2)
- 4593 - THEOBROMA ^{officina woodson} - TREE - 35 FT. F.L. DARK RED. CULTIVATED BY CHICO INDIANS - "CU-LU-HU" (3)
- 4594 - TUSSACIA - HERB - 20 INCHES - F.L. ORANGE, SPADIX DARKER ORANGE. IN BANANA PLANTATIONS. (3)
- 4595 - TREE - 30 FT. F.L. YELLOWISH-GREEN. (2)
- 4596 - JACARANDA RHOMBIFOLIA - TREE - 45 FT. FREQUENT. (1)

- 4597 - *Renanthera* - 6 FT. BRACTS RED - (1)
- 4598 - *Cephaelis* - BRACTS RED - SHADE - 5 FT. (1)
- 4599 - *Metastrombosia* - SHADE - 10 FT. FRUIT RED - (2)
- 4600 - *SAPINDACEAE* - WOODY LIANA - FRUIT RED - (3)
- 4601 - *BONCELLOSIA* ^{CORNIFOLIA} - TREE - 30 FT. FRUIT YELLOW - (3)
- 4602 - *Metastrombosia* - SHADE - 6 FT. FL. PINK - (2)
- 4603 - *Piper* - WOODY HERB - 20 FT. COMMON - (3)
- 4604 - *Dilleniaceae?* - TREE - 25 FT. FRUIT GREEN -
FL. LIKE BARK - (4)
- 4605 - *BENTIANACEAE* - HERB - IN WINDY PLACES -
FL. WHITE - (2)
- 4606 - *LEAVES* - BARK WOODY LIANA - BUDS BROWN -
FL. PURPLISH LAVENDER - (10)
- 4607 - *SWARTZIA* - TREE - 40 FT. FL. YELLOW - (2)
- 4608 - *COCUMARONA JAMAICENSIS* - TREE - 120 FT. -
FL. PINKISH LAVENDER - FREQUENT - (8)
- 4609 - *Lipolythium* - EPiphytic - FRUIT RED - (1)
- 4610 - *BREMBA* - BRACTS RED - FLOWERS WHITE -
FL. WHITE - SEE *KODAKAHOE* - FREQUENT - (1)
- 4611 - *Cephaelis* - ON ROCKY BANKS - IN SUN - FL. -
PURPLE - (4)
- 4612 - *Metastrombosia* - SHADE - 3 FT. - ON WET,
SHADE BANKS - FL. PINK - (3)
- 4613 - GRASS - COMMON ON WET BANKS - (1)
- 4614 - *DORSTENIA* - ON WET BANKS - "PAPA-PAPA" (3)

TRAMA INTERMEDIARIA

- 4615. TREE - 40 FT. FL. W. FAIRLY THICK
ALONG RIVER BANK ON TOPS OF BANKS, MOIST. (1)
- 4616. WEEDY HERB - COMMON ON GRAVEL BANKS -
FL. WHITE - (1)
- 4617. TREE - 15 FT. FL. CRANE - IN HEAVY FOREST. (2)
- 4618. WEEDY HERB - COMMON ON GRAVEL BANKS -
FL. YELLOW - (2)
- 4619. TINY HERB - ON WET, EXPOSED ROCKS - FL. LAVENDER. (1)
- 4620. SOLANACEAE, CRIMSON ON WET SHADY BANKS - (1)
- 4621. RUBIACEAE - CREEPING HERB - COMMON ON WET
FOREST FLOOR - FL. WHITE - (3)
- 4622. RUBIACEAE - HERB - 24 INCHES - FL. WHITE.
IN DARK FOREST - (1)
- 4623. RUBIACEAE - TREE - 15 FT. FL. WHITE. (3)
- 4624. BIGNONIACEAE - HERB - 18" - FL. PURPLE.
UNDERLEAVES & LEAVES PURPLE. (2)
- 4625. MIMACEAE - TREE - 50 FT. FL. WHITE. (3)
- 4626. CUCURBITACEAE - VINE - FL. YELLOW. (1)
- 4627. OCIMUM - CULTIVATED BY CHEROKEE INDIANS -
USED TO RUB ON BODY DURING DANCES - (3)
- 4628. COMPOSITE - GIANT WOODY LIANA - (4)
- 4629. CALADIUM - VERY COMMON ON SHADY, SLOPED
BANKS - SPATHE WHITE. (2)
- 4630. TREE - 25 FT. FL. WHITE, WITH YELLOW
STAMENS - FAIRLY COMMON IN HEAVY FOREST. (3)

MAYNA LOUISIANA

- 4631 - TREE - TO 40 FT. FL. WHITE - FREQUENT -
 "PO-LU-NA" QUARARIBA JEROCANXA (5)
- 4632 - TREE - 75 FT. FL. WHITE - DARK BROWN TRUNKS
 AN OVAL OR ROUND SQUARE, PARTICULARLY FOR
 THE LOWER 3-5 FT. BRANCHES PROSPER, SLIMELY
 REMINDING OF A COW FEEL. VERY COMMON
 IN HEAVY FOREST. MAY BE LUNA'S SQUARE
 TREE - QUARARIBA DARIENENSIS WOODSON (8)
- 4633 - CURRANT-LIKE: VINE - BRATS SCARLET - F.C.
 BRITLY YELLOW. (5)
- 4634 - TREE - 110 FT. FRUIT YELLOW. (4)
- 4635 - ANNUNACIACEAE - TREE - 12 FT. FL. BROWN - IN
 DARK WET FOREST. (1)
- 4636 - TREE - 25 FT. FL. CREAM YELLOW -
 PROBABLY IDENTICAL WITH NO. 4625. (3)
- 4637 - CECYLOLOGACEAE - VINE - FL. PURPLE - (1)
- 4638 - BERBERIDACEAE - VINE - FL. WHITE - (1)
- 4639 - LEANER - GIANT WOODY - THICKY BRANCHES - FRUIT
 ONLY 4 OLD DRIED F.C. (2)
- 4640 - RUBIACEAE - TREE - 30 FT. FL. WHITE - (3)
- 4641 - CRYSEOPHYLLA - COMMON FOREST VINE - 8-12 FT. VINE
 THICKS - TRUNKS GRAY - 3-4" DIA. "ESCOBA" (1)
- 4642 - LEANER - TREE - 65 FT. FL. WHITE -
 FREQUENT - LEUCARENA MULTICAPITULATA SANDWY (4)
- 4643 - DIOSCOREA - FL. DARK PURPLE - (2)

PROTIUM

4644 - ~~Atajate~~ - thick slender tree in heavy forest -

RED - petals pinkish - dark - center

(3)

4645 - ^{Qualea cymulosa} LEAVES - TREE - 100 FT. FLS. ROSE PINK -

(14)

4646 - ^{Acacia tanujolera} LEAVES - WOODY branch, in trees 90

FT. THICK. THICK Diphtheria, Spines 4-5"

DIAM. FLS. WHITE -

(5)

4647 - CENYCHORHYZON - LIKE - FLS. Purple -

(2)

NOTES TO HAVE SENT WOODSON 7/4/47

CARRO TUTE - REGION WEST OF SANTA FE, VERACRUZ
3000 FT. FLD. DAMBOA JUNE 24, 1947

4648 - ACROPERA - Sepals pale cream, minutely spotted
Red - petals rich dark red - column pale cream,
minutely spotted red. Lip orange, with dark
red tip - see photos, plate & pickle -

(1)

4649 - Ep. ... - Lip ...
Laminar ... (see plate)

(1)

Y City, Berquet: - LONCASH ROAD EAST OF RIO CALIMA
 4500-6500 FT. July 23, 1942

- 4650 - SPOKESIA - SHADE - 11 FT. FC. WHITE - (1)
- 4651 - LAURACEAE - SHADE - 10 FT. FC. RED - FREQUENT (4)
- 4652 - COMPOSITE - STOUT HERB - 1 FT. FC. YELLOW (1)
- 4653 - GLEHNIACEAE - SHADE - 12 FT. FC. WHITE - COMMON (3)
- 4654 - COMPOSITE - HERB - 6 FT. FC. WHITE - (3)
- 4655 - APURUCAEAE - TREE - 30 FT. ON STEEP BANKS (4)
- 4656 - HORTENSIA, 7 FT. JEWEL-BERRY BUSH, FC. YELLOW -
 FREQUENT - ALSO IN LAURACEAE PALO MANDU - (4)
- 4657 - LAURACEAE TREE - 50 FT. - (4)
- 4658 - TREE - 60 FT. - (4)
- 4659 - LANTANA - BUSHY SHADE - 5 FT. FC. PINK - (4)
- 4660 - LANTANA - FC. PINK YELLOW - 3 FT. COMMON (1)
- 4661 - AECHELOPS - VINE - FC. DUSKY YELLOW - (6)
- 4662 - JIBBY BUSH - STOUT WOOLY HERB - 5 FT. FC. BLUE
 & yellow common - (2)
- 4663 - SARRACENIA - TREE - 15 FT. FC. WHITE - (3)
- 4664 - TREE - 60 FT. FC. BRASSIC GREEN - (4)
- 4665 - SARRACENIA - TREE - 30 FT. FC. WHITE - (2)
- 4666 - LOCKHARTIA - FC. YELLOW GREEN - FREQUENT (1)
- 4667 - TREE - 40 FT. - FREQUENT - MAROON - (3)
- 4668 - EPHYRA - FC. WHITE - 1/2 FT. FC. WHITE - (1)

Very fine rain - FOREST VALLEYS (El Valle) 5000 ft
 July 24, 1947

- 4669. POLYCARPA - 2x SHADE. 60 FT. LEAVES DARK. (4)
- 4670. TREE - 40 FT. FL. BRING WHITE. (6)
- 4671. SAURAU - Small multiple - 10 FT. (4)
- 4672. TREE - 120 FT. LAURACEAE - (5)
- 4673. LOBLOLLIA - 20 FT. BRING DARK SOY. 10 FT. (1)
- 4674. XANTHOXERIA - 6 FT. Very common along stream bed - 10 FT. (1)
- 4675. DARIUM - 20 FT. FL. yellow - 5 FT. (3)
- 4676. TREE - 20 FT. (3)
- 4677. Epiphyte - 10 FT. - 5 FT. (1)
- 4678. TREE - 40 FT. FL. Yellow - 10 FT. (1)
- 4679. Clivium - 10 FT. - 10 FT. (2)
- 4680. Herb - 3 FT. - 10 FT. (2)
- 4681. Rubiaceae - 10 FT. - 10 FT. (3)
- 4682. AEROLIA - 10 FT. - 10 FT. (1)
- 4683. Pteris - 7 FT. - (9)
- 4684. Miconia - 20 FT. - 10 FT. (4)
- 4685. COSTUS - 7 FT. - 10 FT. (4)

Rio Lindo - Honduras - FLD. LA. MORA. AUGUST 14, 1947

4686 - Zinnia - Herb. yellow - deep Red - Brown -
vary common on large trees along the Rio
Lindo - (1)

5 miles

Stony Plains, ROUTA 10 - 30,000 FT. - EOOOFT.

July 22, 1947 | Remove the BYRSONIMA, CLYTHEA, WALTERIA
9 CALIA MUNICIPALIA 4 YFHE MOUNT OF LINDO 1947

4687 - Herb - Fls. Pink - vary common - (5)

4688 - RUBIACEAE - SHrub - 6 FT. FRUITS BLUE - vary common (3)

4689 RUBIACEAE - PROSPER. HERB - ON SHADY BANKS ALONG
STREAMS - 1 G. - BLUE - FRUITS BLUE - common - (5)

4690 - Herb - Fls. purple - common - common (5)

4691 - RUBIACEAE - Fls. white - vary common (4)

4692 - WALTERIA - woody Herb - 2-3 FT. Fls. lavender - vary common (2)

4693 - BYRSONIMA - TREE - 35 FT. vary common along small
stream courses (3)

4694 - RUBIACEAE - Herb - 1 G. - white - common (4)

4695 - COSMIDENIA - TREE - 30 FT. Fls. white - frequent (4)

4696 - RUBIACEAE - SHrub - 8 FT. Fls. white - frequent along
small streams (4)

4697 - FEBRIFUGA - IN COLONIES ON SHADY BANKS ALONG
small streams - upper two parts red
lower 3 white - common (4)

4698 - ACHILLEA - Fls. blue - ON SHADY BANKS ALONG
small streams (2)

4699 - SHrub - 10 FT. Fls. cream yellow - vary common (4)

4700 - TREE - 35 FT. FRUITS BLACK - frequent along
streams (3)

4701 - Russelia - Herb - 5 FT. Fls. red - frequent (2)

- 4702 - WOOLY VEINS - WHITE RAYE - FREQUENT - (2)
- 4703 - EPIDENDRUM CILIATUM - F.C. - WHITE - FREQUENT - (2)
- 4704 - SHRUB 5/6 FT. - 10 FT. - WHITE - (6)
- 4705 - PIPER - ⁹⁷⁰⁰ 4-6 FT. - STAINES RAYE - FREQUENT - (7)
- 4706 - CAULIS Lvs. - SP. - YELLOW - (9)
- 4707 - LORANTHACEAE - PARASITIC SHRUB - 3-4 FT. - ^{immature fruits orange} - (5)
- 4708 - ANILINACEAE - 30 FT. - FREQUENT - (4)
- 4709 - TREE - 50 FT. - ~~COMMON~~ - (3)
- 4710 - WOOLY HERB - 24-36" - F.C. - COMMON - (4)
- 4711 - FERN - 4 FT. - COMMON - (2)
- 4712 - Lvs. - yellow - FREQUENT - (5)
- 4713 - MICODIA ARVENSEA - TREE - 25 FT. - VERY COMMON - (1)
- 4714 - TREE - 35 FT. - FREQUENT - (2)

VERY PINCA LINDA - 5500 FT. 7/21/47
(FILA LINDA)

- 4715 - EPIDENDRUM DARSANOLAE - FREQUENT - (1)
- Elevated Barrens 1 mile south of - 4000 ft. 7/20/47
- 4716 - COTON - TREE - 30 FT. - FREQUENT - WHITE - (3)
 - 4717 - TREE - 35 FT. - F.C. - PINK - FREQUENT - (6)
 - 4718 - SHRUB - 12 FT. - F.C. - yellow - FREQUENT - (4)
 - 4719 - Small tree - 20 FT. - F.C. - WHITE - FREQUENT - (5)

- 4720 - Composite - woody herb - 3 ft. Fl. white. (3)
- 4721 - Composite - herb - 9 ft. Fl. white. (4)
- 4722 - QUERCUS - TREE - 40 ft. ^{COMMON ALONG TRAILS} ^{IN WOODS} ^{HOPE ROLLS} ^{BY STREAM} ^{VALLEYS} (3)
- 4723 - DEER WAXWOOD - HERB - Fl. white. ^{ON STEEP BANKS} ^{IN PASTURES} (7)
- 4724 - LEBANONIA - HERB - Fl. white, ^{INNER COROLLA WITH DARK RED} ^{SY. IS CENTRAL YELLOW STRIPE}.
 FLOWERS SMALL - IN SPACES - UNDER BRANCHES - (3)
- 4725 - SOBRERIA - Sp. white - Sp. white - ^{THREAT YELLOW - WOOLY - WITH BROWN FLORES - VERY} ^{COMMON - THOUSANDS OF PLANTS IN STEEP EXPOSURE} ^{GRASS - ALL FLOWERS ON STEEP DECL.} ^{Fls. yellow.} ^{SEE PHOTO} (2)
- 4726 - STOUT COMPOSITE - 6-8 ft. ^{VERY COMMON ALONG ROAD} (3)
- 4727 - EPIDENDRUM BOOTHII - ORCHID - VERY COMMON - (2)
- 4728 - SHAUB - 6 ft. Fl. yellowish green - (4)

VERY FINCA LERIDA - 5000 FT. 7/21/47

- 4729 - MAXIMILIA STREPTOPHYLLA - BUSHY TREE - 40 FT. Fl. white. (3)
- 4730 - CYPRESS XYLEM STREPTOPHYLLA - TREE - 60 FT. Fl. white. ^{FRUIT ORANGE - "PICO PICO"} ^{VERY COMMON IN PASTURES} ^{AND STONE GROWTH} (6)

81103 -

277

FORESTED SOUTHERN

VERY FINE A LEAVES - UPPER PART OF THE TREE -
ALONG CREEK - 5000 FT. July 25, 1947 -

- 4731 - QUERCUS - TREE - 50 FT. (8)
- 4732 - LAUREL - 75 FT. (4)
- 4733 - OLEA - 10 FT. (4)
- 4734 - TREE - 60 FT. (6)
- 4735 - RED BACCAE - 12 FT. (3)
- 4736 - TREE - 75 FT. (7)
- 4737 - TREE - 65 FT. (7)
- 4738 - LAUREL - 10 FT. (3)
- 4739 - ARDISIA - SHrub - 8 FT. (2)
- 4740 - BEAN PLANT - SHrub - 2 FT. (1)
- 4741 - TREE - 15 FT. (5)
- 4742 - CORNUS - TREE - 45 FT. (4)
- 4743 - LORNAIA - 4 FT. (3)
- 4744 - RUBICOR - 6-8 FT. (12)
- 4745 - RUBICOR - 12 FT. (4)
- 4746 - RUBICOR - 12-14 FT. (4)
- 4747 - MARY - 6 FT. (3)
- 4748 - BEE - 6 FT. (9)
- 4749 - MYRTLE - 8 FT. (3)
- 4750 - EPIDENDRUM - 3 FT. (4)

WINTERED AT THE MOUNTAINS FOR YEARS - GIVE BY
TO BE PAGE - FLOWERS AT LEAVES -

- 4751 - CARDUACEAE - TREES - 150 FT. - 5 FT. DIA. - FREQUENT (6)
- 4752 - LEGUMINOSAE - VERY BUSHY PARASITIC SHRUB - 15 FT. LEAVES GREENISH TAN - VERY CONSPICUOUS (5)
- 4753 - SHRUB - 8 FT. - 1 LG. CR. FLOWERS - FREQUENT (7)
- 4754 - LEGUMINOSAE - WOODY HERB 8 FT. TALL - COMMON (6)

FORESTED RIDGES SOUTH OF FINCA LINDA - 6000-7000 FT. ^{TRUNK OF THIS IS SURPRISINGLY VERY OLD} JULY 26, 1947 - ^{SECOND GROWTH 20-30 YRS.} ~~THIRD~~ - ^{IN BOMBY} ~~THIRD~~ ^{AREAS}

- 4755 - DICRANOPTERIS - 6-70 FT. - VERY COMMON - ^{IN BOMBY} ~~THIRD~~ ^{AREAS} (2)
- 4756 - TALL, SLender TREE - 60 FT. - LG. WHITE - FREQUENT (10)
- 4757 - EUPHYASIA - TREE - 65 FT. - LG. - VERY COMMON (11)
- 4758 - ~~Columnaria~~ ^{Columnaria} ~~mercuriana~~ ^{mercuriana} - SHRUB - LG. YELLOW - VERY COMMON IN WOODS & EUPHYASIA WOODS - SEE 4760 - ^{THIRNY} (7)
- 4759 - Smilax - ^{THIRNY} - FRUITS CRANIAL (2)
- 4760 - TREE - 35 FT. (6)
- 4761 - VINE - LG. - WHITE - COMMON IN LUSH AREAS (10)
- 4762 - LANTANA - SHRUB - 6-8 FT. - LG. WHITE - ^{Common in BOMBY} ~~THIRD~~ ^{AREAS} (2)
- 4763 - COLUMNNA - Bushy EPiphytic SHRUB - 3 FT. - ^{LEGS} ~~RED~~ - ^{CAVES JOINTED} - ^{PERIODIUM} TAN INTERNODES SIMILAR ANOETAS IN ^{NODILE} (4)
- 4764 - LOOK LIKE MARTIA - LG. YELLOW - ^{LEGS} ~~RED~~ - ^{COMMON} (3)
- 4765 - Bromeliad - ^{lower soft parts red - upper to green} - IN OAKS - VERY COMMON - SEE 4760 (4)
- 4766 - Epidendrum DIFFORME - LG. - BUSHY - FREQUENT (2)
- 4767 - CORNUS - TREE - 50 FT. - FREQUENT (6)
- 4768 - ^{ERICACEAE} - Small bushy tree - 8-12 FT. - ^{LG. WHITE - leaf} ~~COMMON~~ ^{LOW} OR SARDINA (14)

- 4769 - LORNACEAE - PARASITE - STems 18" - grassy, branched -
 FLOWERS WHITE - LOMA SANDINA - (2)
- 4770 - COMPOSITE - Herb - fls. yellow - very common on
 LOMA SANDINA - 9 CERRAS - (4)
- 4771 - SIB. OF S.F. PARASITE - FLOWERS - Tipped with -
 COMMON ON SANDINA - (2)
- 4772 - BIGNONIACEAE - BRUSHY or SHRUBBY - (1)
- 4773 - MALVACEAE - ROOT PARASITE - LOMA SANDINA
 FLOWERS - PINK - COMMON ON SANDINA - (9)
- 4774 - BALANOPHORACEAE - ROOT PARASITE - (3)

43 N. 3.

215

WASTAN SHOPEE IN CERRO NEGRITA -
 BATO MUNO - ROUTE LEAD TO CONTINENTAL
 DIVIDE - 5000 - 7000 FT. - July 29, 1947

- 4775 - MYRTACEAE - Woody shrub - in grassy
 trees - 120 FT. Fls. white - (4)
- 4776 - CINCHONA - ? - trees - 65 FT. - often flowerless
 FLOWERS AT 15 FT. - Fls. pale pink - FREQUENT - (14)
- 4777 - SOLENA - woody shrub - Fls. yellow
 pale purple - (2)
- 4778 - FICUS ARBorea - trees - 30 FT. - (2)
- 4779 - TREE 30 FT. Fls. pale yellow - (2)
- 4780 - Herb - 6 FT. Fls. red - common - (5)

- 4781 - GRAMINEAE - WILLOW WARD - 4 FT. 1 FT. WHITE (3)
- 4782 - STURGEON - 6 FT. FL. WHITE (2)
- 4783 - MAXILLARIA - FL. ^{small} yellow (5)
- 4784 - LEGUMINOSAE - HERB - 6 FT. FL. CRANE (3)
- 4785 - TREE - 25 FT. FL. DARK ROSE PINK (9)
- 4786 - DRYMONIA - Epiphytic Herb - 1 FT. yellow (5)
- 4787 - Xylocarpus glaberrima - FL. pale yellow (1)
- 4788 - CECUMERIA - Epiphytic. FL. yellow. ^{TRIKOLAR RED} BRANCHES OR LEAVES (3)
- 4789 - EPIDENDRUM - 1 FT. TAN (5)
- 4790 - SOLANACEAE - TRAILSIDE HERB - 1 FT. BLUE - Common (4)
- 4791 - HERB ^{POLEY KALANPA} - 6 FT. FL. Blue & yellow (1)
- 4792 - CENTROPOGON - WOODY HERB - 5 FT. FL. CRANE (1)
- 4793 - BOERHAAVEA - VINE - FL. RED - ^{SEEDS PURPLE} (5)
- 4794 - EPIDENDRUM - 8 FT. GREEN - leaf white (2)
- 4795 - LYCOPODIUM - FORMING colonies on STEEP BANKS (4)
- 4796 - STATIS - 1 FT. Pale purple - ^{in woods in trees} (2)
- 4797 - SASSAFA - TREE - 18 FT. FL. white - ^{multiple trunk} (1)
- 4798 - COMPOSITAE - HERB - 8 FT. FL. yellow - ^{FRANKIA} (3)
- 4799 - GINKGO - TREE 7 FT. ^{in wet place along small stream - sparse canopy} (1)

Very. Bato Mena - (Mindoro Province) - 5000 ft.

August 7, 1947

4800 - CORN - WHITE - "CARTAO"

4801 - CORN - WHITE -

Robito trail - NORTHERN slopes of CARABALLOPETA

6000 - 7000 FT. BOGAS DEL MONTE PROVINCE - 8/6/47

4802 - ANNOUACEAE - TREE - 100 FT. - FL. GREEN - (8)

4803 - EPiphytic SHRUB - 12 FT. - FL. PINK - GREENING along - (8)

4804 - EPiphytic SHRUB - 6 FT. - FL. PINK - (8)

4805 - CYCAS - EPiphytic - (7)

4806 - NO. ERICACEAE - HERB - 5 FT. - LG. YELLOW - (2)

4807 - ERICACEAE - EPiphytic SHRUB - 3 FT. - (4)

4808 - ERICACEAE - EPiphytic LIGNUM SHRUB - 15 FT. - (9)

Bato Mena - Robito trail - 5000 - 7000 FT. 8/6/47

NORTHERN slopes of CARABALLOPETA, MINDORO PROVINCE

4809 - BEGONIACEAE - STOUT HERB - 5 FT. - LG. WHITE - (3)

4810 - LOBLOBIACEAE - TRAILSIDE SLender HERB - 3 FT. - PURPLE - (1)

4811 - LOBLOBIACEAE - HERB - 4 FT. - LG. PINK - (1)

4812 - POLYPODIACEAE - WOODY VINE - FL. GREEN - (1)

- 4813 - ^{CRUCIFERAE} *Caryophyllaceae* - *Epiphytic* - 1 FT. - 10. WHITE - (4)
- 4814 - *Epiphytic* - 1 FT. - 10. WHITE - COMMON (1)
- 4815 - *Epiphytic* - 1 FT. - 10. BROWN - RED - (7)
- 4816 - *Epiphytic* - 1 FT. - 10. RED - (11)
- 4817 - *Epiphytic* - 1 FT. - 10. RACHIS & FLS. DARK RED - (10)
- 4818 - *Epiphytic* - 1 FT. - 10. PURPLE - VERY COMMON & FREQUENT. (4)
- 4819 - *Epiphytic* - 1 FT. - 10. RACHIS RED - LEAVES & STEMS WITH RED GIBBEROUS. (5)
- 4820 - *Epiphytic* - 1 FT. - 10. FREQUENT. (6)
- 4821 - *Epiphytic* - 1 FT. - 10. FLS. PURPLE. (4)
- 4822 - *Epiphytic* - 1 FT. - 10. FLS. BRICK ORANGE. FREQUENT. (5)
- 4823 - *Epiphytic* - 1 FT. - 10. RACHIS LAVENDER. FLS. PINK. (3)
- 4824 - *Epiphytic* - 1 FT. - 10. BRACKETS REDDISH BROWN. FLS. PURPLE - FREQUENT. (6)
- 4825 - *Epiphytic* - 1 FT. - 10. FLS. WHITE - FREQUENT. (5)
- 4826 - *Epiphytic* - 1 FT. - 10. CALYX RED - FLS. BROWN YELLOW. (4)
- 4827 - *Epiphytic* - 1 FT. - 10. FLS. WHITE. (2)
- 4828 - *Epiphytic* - 1 FT. - 10. FLS. WHITE - COMMON. (2)
- 4829 - *Epiphytic* - 1 FT. - 10. (CREAM YELLOW) (7)
- 4830 - *Epiphytic* - 1 FT. - 10. (SIDE VIEW) (7)
- 4831 - *Epiphytic* - 1 FT. - 10. FLS. PINK - FREQUENT (5)
- 4832 - *Epiphytic* - 1 FT. - 10. (5)
- 4833 - *Epiphytic* - 1 FT. - 10. PANDULOUS STEMS 8 FT. - FLS. RED - (12)

Very, very common Rio Grande - 8/29/47
 by Harold Gentry

4834. Bromeliad - common on edge of forest - fl. white - (2)

Bato, Momo - Robledo Trail - 5700 - 7000 ft. 7/29/47

4835. RUBIACEAE - Common roadside herb - fl. white - (3)

4836. LOBELIACEAE - Thicket herb - fl. red - (4)

4837. DIOSCOREA - Vine - fl. green - (4)

4838. LORANTHACEAE - Parasitic shrub - 8 ft. tall - (5)

4839. TREE - 45 ft. fl. white - (6)

4840. EPIDENDRUM - S. sp. - fl. brown - (7)

4841. ERICACEAE - Epiphytic shrub - 5 ft. - (8)

4842. TREE - 120 ft. near Continental Divide - (5)

4843. ZYGANTHACEAE - Tree - 60 ft. 7000 ft. - (6)

4844. TREE - 100 ft. 7000 ft. - (3)

4845. ERICACEAE - Epiphytic shrub - fl. pink - (9)

4846. LAURACEAE - Tree - 120 ft. "Sima" fl. white - (10)

Llanó del Volcan - 4500 ft. Chiriquí Province

August 2, 1947

4847. CONVULVACEAE - fl. deep pink - (6)

4848. UROSAURUS? - fl. blue - (5)

4849. FABACEAE - fl. pale white - (6)

4850. RUBIACEAE - fl. pale pink - (3)

4851. TREE - 30 ft. fl. pink - ON ROAD TO BAMBUI - (15)

- 4852 - LAURACEAE - PROSTRATE HERB. FLS. CRIMSON (2)
- 4853 - SALVIA - 3 FT. FLS. BLUE (6)
- 4854 - WOODY HERB - 3 FT. FLS. PINK (5)
- 4855 - CROTON - SHRUB - 4-6 FT. FLS. WHITE. VERY COMMON (5)
- 4856 - LAURACEAE - TREE - 20 FT. FLS. TAN - INFLORESCENCE IN DRY BRACES (11)

348

BADO MONO - RICA TO WALK - 17000 FT. 7/24/47

- 4857 - HADONARIA - EPHYTIC - SEED DARK GREEN - ^{SPOR} WHITE, TIPPED GREEN - (SEE PICKLE) (1)

NORTH FACE OF CARRO COPEPE - AN EASTERN SPUR OF CHIRIQUI VOLCANO - 8000 FT. ^{8500 FT} 7/29/47

- 4858 - PROSTRATE HERB - (5)
- 4859 - TREE - 40 FT. FLS. WHITE - FRAGRANT - (5)
- 4860 - ERICACEAE - LAX SHRUB - ARCHING BRANCHES 10 FT. TERRESTRIAL, ON FOREST FLOOR - FLS. PINK, TIPPED WHITE - POSSIBLY FALLON FROM BRANCH (5)
- 4861 - QUERCUS - STERILE - THIS IS THE DOMINANT TREE ABOVE ABOUT 7500 FT., FORMING NEARLY PURE STANDS ON THE NORTH FACE OF CARRO COPEPE, AND NORTH & EASTERN SLOPES OF THE VOLCANO. (3)
- 4862 - RUBIACEAE - TRAILING HERB - FLS. PINK - FOLIAGE BRASSICACEAE - (6)
- 4863 - BRONZE - LEAVES RICHLY MARBLED DARK RED - VERY COMMON & CONSPICUOUS IN OAKS FROM CASITA AGRICOLA TO SUMMIT - (1)

- 4864. Compositae - woody vine - fls. yellow - (2)
- 4865. Compositae - 5 ft. - fls. white - (3)
- 4866. SHrub OR small TREE - 12-15 ft. fls. pink - (1)
- 4867. TERRESTRIAL GRASS - fls. green - (4)
- 4868. Epiphyllum - Epiphytic - fls. DARK BROWNISH purple - (See pic) (1)
- 4869. TREE - 40 ft. fls. white - (5)
- 4870. ERICACEAE SHrub - 8 ft. in OAK FOREST - fls. white (3)
- 4871. PHYCLOPSA - very woody scandent herb - 8 ft. fls. & fruits purple. infrequent. (2)
- 4872. ZINGIBERACEAE - SHrub - 3 ft. fls. pink common. STems red - very (2)
- 4873. BENNETTIACEAE - small terrestrial. 4 ft. fls. yellow - very common in OAK FOREST - (2)
- 4874. ZINGIBERACEAE - TREE - 50 ft. fls. white - VERY COMMON ALSO (3)
- 4875. Climbing FERN - in OAK FOREST. (1)
- 4876. Filmy FERN - TERRESTRIAL - OAK FOREST. FREQUENT in BARRO. (3)
- 4877. BARROCO - 30-40 ft. Clumps of 20-30 canes - very common in OAK FOREST. Also in BARRO. (4)

SUMMIT OF CARRO COYTE & WEST FACE - 9000 FT. SOUTH

- 4878. IRIDACEAE - fls. blue - very common XERIS (4)
- 4879. Smilacina paniculata - fls. white - (3)
- 4880. TREE - 20 ft. fls. yellow - (4)

- 4881 - FERN - FERMENT STOUT plant - 2 ft. high - (1)
- 4882 - ERICACEAE - SHAUB - 6 FT. FL. PINK - (4)
- 4883 - LAURACEAE - TREE - 10 FT. FL. TAN - (5)
- 4884 - COMPOSITE - BUSHY HERB - FL. PINKISH PURPLE -
VARY COMMON ON BANKS SW FACE - (6)
- 4885 - SHAUB - 5 FT. FL. RED - FREQUENT - (6)
- 4886 - CASTANEA - BARKS RED - VARY COMMON - (3)
- 4887 - SALVIA? - HERB - FL. BLUE - VARY COMMON - (2)
- 4888 - ERICACEAE - TREE - 30 FT. FL. PINK - (3)
- 4889 - Lycopodium - ON BANKS IN PARK SW FACE - (3)
- 4890 - Lycopodium - IN HEAVY SHADE - UNDER CAVE - (3)
- 4891 - ERICACEAE - SHAUB - 10 FT. FL. RED - 7/1/90
WINDY - COMMON - (6)
- 4892 - TREE - 12 FT. FL. PINK - FRUITS RED - FREQUENT - (6)
- 4893 - ERICACEAE - SHAUB - 8 FT. FL. RED - 7/1/90
WINDY - FREQUENT - (7)
- 4894 - ERICACEAE - TREE - 8 FT. FL. RED - (3)
- 4895 - ALNUS - TREE - 40 FT. - VARY COMMON ON
NORTH EASTERN SLOPE OF CHARQUI VERMONT - BARK
WHITE UNDER BARK RED - IN THE WOOD WITH
MANY OTHERS - 20% OF THE FOREST
BARK IS RED - 100 FT. LONG - ERICACEAE
Flowers into - (5)
- 4896 - DRYADUM - HERB - FL. WHITE - (2)
- 4897 - FUSCHIA - SHAUB - 8 FT. FL. RED - (3)
- 4898 - PAISONIA - FL. PURPLE - VARY COMMON - (3)

Polypodiace

4899 - SHADE 6 FT. FB. Flowers yellow - (2)

4900 - Herb - *Halimolobos* sp. - flowers yellow -
SHADE UNDER JUNGLE - COMMON - (8)

4901 - ERICACEAE - SHADE - 6 FT. FB. Flowers yellow
WHITE - COMMON - (3)

4902 - EPIDENDRUM - UNIDENTIFIED - MOIST HILL - 5-8
FT. FB. WHITE - FREQUENT AS SMALL PLANTS ON
BANKS OF RIVER IN FOREST - FRUITING ABOUT 5 FT.
ALSO IN DENSE JUNGLE UNDER MOIST CANOPY, WHERE
THE PLANTS OCCUR 6-8 FT., BUT NOT FRUITING
FRUIT AT A LATER DATE - (3)

4903 - EPIDENDRUM - FB. TAN - IN SMALL STREAM FOREST - (2)

4904 - EPIDENDRUM - FB. TAN - (SEE 4903) - (1)

4905 - ODORENTES - FB. WHITE, WITH DARK GREEN
SPOT ON LEAVES - (2)

4906 - EPIDENDRUM - EPIDENDRUM - 4 FT. FB.
YELLOW - IN OAK FOREST. SAME AS 4873 - (4)

4907 - EPIDENDRUM - TREE - 35 FT. FB. WHITE -
FREQUENT IN OAK FOREST - (3)

VERY RARE PLANT - 6000 FT. 7/27/47

4908 - PHAGAN - CAUSTIC - (2)

BOCAS DEL TORO PROVINCE - A BULO TRAIL - MOUNTAIN
 SLOPES OF CARRO NOROCCIA, 6000-7000 FT.
 AUGUST 5-7 - 1917

- 4909. CALYCOTYLIDAE - Fl. yellow - (8)
- 4910. EUPHORBIACEAE - Epiphytic - 3 FT. ^{SEE} ~~Fl. purple~~
 BRISTLY PURPLE - Lip green white - ^{NON-CHARACTERISTIC} (5)
- 4911. ^{LOBELIACEAE} LAX HERB - 4 FT. Fl. ^{1 1/2 FT} ~~purple~~ pink - ^{1 1/2 FT} (11)
- 4912. EPiphytic Fern - (2)
- 4913. URTICACEAE - Herb - 6 FT. Fl. white - (5)
- 4914. URTICACEAE - Herb - 3 FT. (7)
- 4915. URTICACEAE - 1 1/2 FT. Fl. white - (1)
- 4916. SOLANACEAE - Herb - 6 FT. Fl. ^{1 1/2 FT} white - (11)
- 4917. ^{TRICHOSTEMMACEAE} HERB - 2 FT. Fl. white - common - (1)
- 4918. EPICLADACEAE - Epiphytic SHRUB - 8 FT.
 Fl. scarlet - (1)
- 4919. DIPSACACEAE - SHRUB - 2 FT. ^{Fl. green} FLOWERS WHITE - (3)
- 4920. LEGUMINOSAE - Fl. yellow - Spines red - (1)
- 4921. RUDIACEAE - SMALL TREE - 8 FT. ^{Fl. white} ~~Fl. white~~ -
 RICHLY BRANCHED (1)
- 4922. BOMBAKACEAE - Fl. Red - common vine - (2)
- 4923. CENTROPAGON - LAX, WOOLY HERB - 4 FT. Fl. ^{SEE} ~~Fl. white~~
 SCARLET, tipped yellow - common - (7)
- 4924. BESLERIACEAE - Herb - 3 FT. - TENDRILS TRAIL OR
 Epiphytic - Fl. yellow - common - (5)
- 4925. ARALIACEAE - ~~SHRUB~~ SHRUB - 12 FT.
 Fl. white - (4)

- 4926 - Composite - Herb - w. yellow large fls. - S. -
Fls. white - (4)
- 4927 - Composite - Epiphytic shrub - 10 ft. -
Fls. pink - frequent & conspicuous - (6)
- 4928 - Passiflora - Fls. pale green with purple
stamens - (8)
- 4929 - Rubiaceae - Shrub - 8 ft. - Fls. lavender - (7)
- 4930 - Nasturtium - vine - Fls. yellow with
spots - (5)
- 4931 - Smilacina - fl. white - 9 ft. -
Epiphytic - (2)
- 4932 - Epiphytic shrub - 6 ft. - Fls. white -
- (3)
- 4933 - Zingiberaceae - vine - fl. white - frequent - (5)
- 4934 - Ericaceae - Epiphytic shrub - 10 ft. -
bracts white - pink - fls. - very pale pink - (4)
- 4935 - Columnar - Epiphytic - 10 ft. -
frequent - (2)
- 4936 - Cantharidaceae - Herb - 6 ft. - Fls. pink -
- (2)
- 4937 - Asteraceae - Herb - 1 ft. - Fls. orange - (5)
- 4938 - 4 ft. - Fls. white - (4)
- 4940 - Acanthaceae - Herb - 6 ft. - Fls. -
- (1)
- 4941 - Shrub - 8 ft. - Fls. yellow - (8)
- 4942 - Metastelma - 15 ft. - Fls. white - (4)
- 4943 - Gesneriaceae - Herb - 3 ft. - Fls. yellow - (9)
- 4944 - Gesneriaceae - Herb - 3 ft. - Fls. pink - (7)
- 4945 - Jussiaea - Herb - 8 ft. - Fls. yellow -
- (4)
- 4946 - Woody Herb - 10 ft. - Fls. bract pink -
frequent, very showy - (11)
- 4947 - Lobelia - woody branched herb - 5 ft. -
Fls. orange - frequent - (4)

- 4948 - *Columnaria* - EGYPT - 7 FT. ^{BLOOD} FLS. ^(SEE KOMEHOMIA) (3)
- 4949 - *Strobilium* - STYRIA - 10 FT. DARK GREEN -
LIP - (4)
- 4950 - *Piper* - Herb - 2 FT. (1)
- 4951 - *Loeselaceae* - Herb - 3 FT. FLS. RED - (2)
- 4952 - *Loeselaceae* - Herb - 3 FT. FLS. DIRT GREEN -
FOLIAGE - FREQUENT - (4)
- 4953 - *Scrophulariaceae* - Herb - 4 FT. FLS. WHITE - (5)
- 4954 - *Compositae* - Tree - 40 FT. FLS. LAVENDER - FREQUENT (4)
- 4955 - *Solanaceae* - Herb - 6 FT. FLS. GREENISH WHITE - (1)
- 4956 - ^{CLERODIA} Herb - 6 FT. FLS. SALMON RED - (3)
- 4957 - *Solanaceae* - Herb - 6 FT. FLS. YELLOW - (2)
- 4958 - *Sida* - (4)
- 4959 - *Cucurbitaceae* - Vine - FLS. GREEN - (3)
- 4960 - *Broussonetia* - Epiphytic on sides of tall trees -
Bloss. Red - Common - (1)
- 4961 - *Besleria* - Shrub - 6 FT. FLS. ^{FREQUENT} PINK - (3)
- 4962 - *Hesperandrea* - Herb - 6 FT. FLS. YELLOW - (2)
- 4963 - *Wood* - Herb - 6 FT. FLS. WHITE - MINUTE - (3)
- 4964 - *Renealmia* - Parasitic - Calyxes, white - yellow - (2)
- 4965 - *Fuscaria* - Woody herb - 2 FT. FLS. RED - (5)
- 4966 - *Compositae* - Tree - 40 FT. FLS. YELLOW - (2)
- 4967 - *Melastomaceae* - Tree - 40 FT. FLS. BLOOD
RED - Fairly frequent - Stamens pure white - (R)

- 4968 - BANANA - Tree - 8 ft. fls. white - (5)
- 4969 - Herb - 1-2 ft. - ^{fruit} - ^{near} ^{new} ⁱⁿ ^{wet} ^{places} - ^{black} - (6)
- 4970 - Clivaria - Shrub - 8 ft. fls. white - (6)
- 4971 - Columna - Epiphytic - fls. 3-4 ft. - (1)
- 4972 - Spreading tree - 4-10 ft. ^{SEEDS FREQUENT ABOVE} - (11)
- 4973 - Heliconia LANKESTERI - 6-8 ft. ^{BRACTS LAPSE RED} very common - ^{leaves} -
 This was the only Heliconia seen on the slope - (11)
- 4974 - ERICACEAE - Epiphytic Shrub - 5 ft. ^{BRACTS} purple - (4)
- 4975 - BESNARIACEAE - Herb - 4 ft. ^{calyx BLOOD RED - common} - (17)
- 4976 - BESNARIACEAE - Herb - 3 ft. ^{BRACT yellow} - very common - (8)
- 4977 - Fern - (2)
- 4978 - Herb - 3 ft. ^{LENTICULAR ?} - (2)
- 4979 - METASTEMAE - Shrub - 3 ft. fls. blood red - (1)
- 4980 - BEGONIA - bushy herb - 2 ft. ^{stems} - ^{streaked} - (7)
- 4981 - BESNARIACEAE - Herb - 3 ft. ^{calyx red} - ^{corolla orange} - (5)
- 4982 - BRONCHIA - Epiphytic - fls. pale green - ^{4 BRACTS} - (1)
- 4983 - Clusia? - ^{fruit} ^{bushy} ^{epiphytic} ^{shrub} - ⁱⁿ ^{tops} ^{of} ^{trees} - ^{120 ft.} - (11)
- 4984 - RUBIACEAE - Epiphytic Shrub - 10 ft. fls. pale pink or white - ⁱⁿ ^{tops} ^{of} ^{fruit} ^{trees} - (12)
- 4985 - BESNARIACEAE - Herb - 5 ft. fls. white - (5)
- 4986 - ERICACEAE - Epiphytic Shrub - 5-6 ft. fls. pink - ⁱⁿ ^{tops} ^{of} ^{fruit} ^{trees} - (6)
- 4987 - BESNARIACEAE - Herb - 2 ft. fls. pale white - (3)

- 4988. MISTLETOEACEAE - TREE - 42 FT. FR. PURP.
WHITE - FREQUENT - (SEE KODACHROME) (3)
- 4989. CYPRIPTERIS - HERB - 3 FT. LEAVES BROWNISH PURP
FL. PURP. - FREQUENT. (3)
- 4990. MISTLETOEACEAE - FOLIAGE BUSH, EPYPTIC SHRUB -
30 FT. IN TOPS OF TALL TREES - (4)
- 4991. TREE - 60 FT. ANDISIA? (4)
- 4992. MISTLETOEACEAE - TREE - 30 FT. FR. PINK
PINK - (3)
- 4993. BIGNONIACEAE - HERB - 4 FT. WOODY STEM -
LEAVES PURP. - FREQUENT. (3)
- 4994. LOBELIACEAE - HERB - 3 FT. FR. PURP. (3)
- 4995. SOLANACEAE - EPYPTIC HERB - STEMS
HABIT OF A COLUMBA.
FRUIT PINK - FREQUENT. (7)
- 4996. BIGNONIACEAE - EPYPTIC AERIAL SHRUB -
8 FT. FR. PINK - ON SIDES OF TREES (15)
- 4997. TRAIKING HERB - FR. WHITE - FREQUENT.
- 4998. PHYTOLOGA - HERB - 6 FT. VERY COMMON. (2)
- 4999. COMPOSITE - WOODY HERB - 10 FT. FR. TRAILING
YELLOW - VERY FREQUENT - (SEE KODACHROME) (2)
- 5000. SMILACINA - TRAILING OR EPYPTIC
8-10 FT. FR. WHITE - (SEE KODACHROME) (1)
- 5001. MISTLETOEACEAE - EPYPTIC SHRUB - 6 FT. (1)
- 5002. MISTLETOEACEAE - TRAILING HERB - COMMON IN
WET PLACES ALONG RIVERS. (5)

- 5003 - *Alternanthera* - 3' to 5' plant - ...
 BEAKED 8 to 10 ... 1-70-3 ...
 ... VERY COMMON - ...
 ... of 75% ...
 ... (1)
- 5004 - *BUNNARA* - ...
 ... 10 FT. ...
 ... (1)
- 5005 - ...
 ... (4)
- 5006 - ...
 ... (6)
- 5007 - ...
 ... (1)
- 5008 - ...
 ... (1)
- 5009 - ...
 ... (1)
- 5010 - ...
 ... (2)
- 5011 - ...
 ... (5)
- 5012 - ...
 ... (2)
- 5013 - ...
 ... (1)
- 5014 - ...
 ... (3)
- 5015 - ...
 ... (4)

CARRA LAKARA (HOREBA) - 1000 M. DISTANCE - CIRIQUI

PROVINCE - 1000 M. AUGUST 1, 1947

- 5016 - BRUNELLA - COMMON ON SLEEK ROCK FACES -
13. S. S. ROAD - (3)
- 5017 - LULIA - TREE - 15 FT. - (6)
- 5018 - TREE - 20 FT. - (4)
- 5019 - TREE - 50 FT. - (4)
- 5020 - CECYLOPS - TREE - 15 FT. - (3)
- 5021 - HELICONIA - 17 FT. - BRIT. A.P. - (3)
(SEE KODIAROWE) ^{in types of tree -}
^{or KODIAROWE}
- 5022 - APCEYNAC - TREE - 85 FT. - (16)
YELLOW - STAMEN -
- 5023 - BICRIS - STOLON - 6 CANES
10 FT. - FREQUENT - IN MOUNTAIN FOREST.

PASTURES & RIVER BANKS EAST OF

V. C. Y. SICALACA - CIRIQUI PROVINCE - 5000 FT.

JULY 31, 1947

- 5024 - TREE - 30 FT. IN FOREST ALONG RIVER. (4)
- 5025 - LORANTHACEAE - 2 FT. (3)
- 5026 - FIG - 45 FT. ^{FREQUENT} IN PASTURES (3)
- 5027 - EUCALYPTUS - SHAUB - 8 FT. 1 G. W. (11)
- 5028 - WOODY VINE - FRUIT - (5)
- 5029 - COMMUNICATAE - 4 FT. 1 G. (3)
- 5030 - TREE - 30 FT. - (4)

VERY, OF BUNACA mostly in pastures, in high
 grass, with belts of what looks like original forest
 continued mostly to the stream banks. West of town
 there is an irregular strip of short grass & low
 running roughly east & west - bounded by typical
 prairie scrub woods -

- 5031 - *Stachytarpheta* - plant - blue flowers - (3)
- 5032 - *Cordia* - tree - 20 ft. - (2)
- 5033 - *Chrysanthemum* - tree - 65 ft. - common - (3)
VERBENACEAE - CORACIUM
- 5034 - *Yucca* - 12 ft. - fls. blue - (1)
- 5035 - *Dillenia* - tree - 15 ft. - fls. white - (2)
VERY COMMON IN PASTURE
- 5036 - *Tree* - 30 ft. - fls. orange - (4)
VERY COMMON
- 5037 - *Woody herb* - 4 ft. - fls. purple - (2)
- 5038 - *Labiatae* - tree - 10 ft. - (2)
- 5039 - *Mimosa* - fls. yellow - common - (1)
- 5040 - *Aristolochia* - shrub 3-4 ft. - fls. white - (2)
INVT. CROWN YELLOW. CUTV. ACUTE. PINK. GREEN.
- 5041 - *Epiphyllum* - fls. white - (2)

LAND WEST OF BUNACA - 500 FT. E/2/4/2

- 5042 - *Tree* - fls. pure white - (1)
- 5043 - *Turnip* - fls. yellow - common - (4)
COMMON ALONG
- 5044 - *Leaves* - prostrate herb - fls. white - head - (5)
- 5045 - *Herb* - 3 ft. - fls. white - common - (3)
- 5046 - *Herb* - fls. white - common - (2)
COMMON
- 5047 - *Rubiaceae* - prostrate herb - fls. white - (6)
- 5048 - *Passiflora* - (3)
- 5049 - *Araliaceae* - tree - 110 ft. - fls. greenish white - (4)
- 5050 - *Leaves* - prostrate herb - fls. yellow - common - (4)
- 5051 - *Dioscorea* - vine - fls. white - (2)

- 5052 - Polygalac - Common Herb - 1-3 ft. (6)
- 5053 - Rubiaceae - Herb - 1-2 ft. - 10/19 - Common (3)

Cerro Datura, Merida, Yucatan
 On Piqui - Province = 1000 ft. 8/1/47

- 5054 - Shrub or woody herb - 8 ft. - 10/19 -
 very common - Polygalac - (5)
- 5055 - Rubiaceae - Shrub - 10-15 ft. - 10/19 - (5)
- 5056 - Solanaceae - Vine - Fruit red - (2)
- 5057 - Rubiaceae ^{Nauclea} - Tree - 2-17 ft. ^{10/19} - (1)
- 5058 - ^{Bushy} Tree - 10 ft. - (4)
- 5059 - Tree - 65 ft. - (10)
- 5060 - Piper - Tree - 20 ft. - very common - (4)
- 5061 - Legume - Tree - 25 ft. - very common - (1)
- 5062 - Vitaceae - 5-9 ft. - 10/19 - (3)
- 5063 - Urticaceae - Tree - 12 ft. - Fruit orange - (2)
- 5064 - Malvaceae - Shrub - 8 ft. - 10/19 - (3)
- 5065 - Heliconia - Herb - 10 ft. - Bracts red -
 tips yellow - 10/19 - (1)

NOTES TO Herb. Inst. Woorsey
 SEPT. 15, 1947 -

YAMA DE LA TIERRA NUEVA MEXICO DE LA MOUNTAIN
3000 FT. FLD. TAMBOA 9/6/47

5066. *Sida* ~~sp.~~ *sp.* - 3 eyes: inner ones purple
on outer surface. ORANGE on inner surfaces
parts of lip pale of eye - (See picture) (3)

5067. *Lycaste* *seuiana* - ESPRIS & KOFFER. (1)

RIO TUPENACUIN - NEIDORAS - FLD. TAMBOA 8/30/47

AROMATIC LINDA

5068. *Lycaste* ~~sp.~~ ~~sp.~~ *sp.* - 1 to 2 eye
THREUNENT - (See picture) (1)

VORP. ESTRELLA VILLAY - SANTA RITA
FLD. TAMBOA 9/3/47

5069. *Oncidium* *Kaunianum* PERS. F. (1)

RIO STATE & SANTA RITA - SANTA RITA DE LA MOUNTAIN
DE LA MOUNTAIN - 1500 FT. FLD. TAMBOA 9/3/47

5070. *Sibbaldia* *marina* LINDL. ex LINN. (See
picture: plate of picture) (2)

CARRO CAMPANA - ROCKY OUTCROPS - 2500 FT. FLD.
TAMBOA 8/28/47

5071. *Peristeria* *flata* Hook - (1)

EL VALLE - SOUTH & EAST HILLS - 2000 FT.

Fl. NAMBICA 9/2/47 -

5072. *PERITRACHIA STATA* Hook. f. - P. white,
column white, NIPALS = column white,
spike purple, tip white, gland purple.
TANZANIA. (1)

Rio Lindo, HENDRA, very. Pina Bina
Fl. NAMBICA 8/23/47

5073. *Epiphyllum* - 1000 ft. - Dimer. (2)

Cerro Campaña - 1000 ft. Fl. NAMBICA 8/23/47
Collected by Dorothy Hillman

5074. *Scaevola* - 1000 ft. - (1)

Hills south of MANAUA, A. CANTANA - 1000 ft.
Fl. NAMBICA 8/25/47

5075. *Oncidium* - 1000 ft. yellow - heavily marked brown -
with yellow tips. Petals & dorsal lobes
very clean yellow - central part brown
chest brown - crest white, spots brown -
anthers of yellow - (see p. 1/2) (2)

La Chacra, Vera Cruz - 1000 ft. - Fld.
TAMBOA 8/14/47 - collected by Percy Allan

5076. *EPHEMERUM* - Fld. - (2)

Cerro Campana: 2000 ft. Fld. TAMBOA - 8/25/47
Collected by Percy Allan.

5077. *TEUCORIUM* - Fld. - white, with
black reddish brown spot. white w. column
white, with central red flower. Anthers of pale
white, yellow. (1)

Cerro Campana - Rock face. 2500 ft. Fld.
TAMBOA 8/18/47

MAXILLARIA planicola
5078. *ORCHIDACEAE* - Fld. - white, inner lip pale
yellow - (See guide to specimens) (2)

Rio Lindo, Honduras - Vera Cruz, Peten Blanca - Fld.
TAMBOA 8/29/47

5079. *MAXILLARIA* - (1)

El Valle Chiquito - 1800 ft. Fld. TAMBOA 7/31/47

5080. *CYCNOGLOSSUM* - (1)

This is a list of plants from the collection of the University of Michigan.

YUCY, FINCA LA RITA - EL VALLE - 5000 FT.
Fl. in the collection of Mr. R. K. Sorensen
7/9/47

5081 - *Maxillaria* - FR. CRANF - (1)

SEE ALSO # 4783

EL VALLE DE ANTON - 1500 FT. Fl. in the
collection of Mr. Harold D. V. 7/30/47

5082 - *Epidendrum difforme* Jacq. (SEE JICKE) (1)

YUCY, FINCA LA RITA - 5000 FT. Fl. in
the collection of Mr. R. K. Sorensen 7/31/47

5083 - *Epidendrum difforme* - Jacq. (SEE JICKE) (1)

5084 - *Epidendrum difforme* - Jacq. (SEE JICKE) (1)

EL VALLE DE ANTON - 1500 FT. Fl. in the
8/2/47

5085 - *Epidendrum difforme* Jacq. (SEE JICKE) (1)

YUCY, BELMOC - 10 FT. Fl. in the
collected by Dorothy C. Ayler

5086 - *Bomarea nudosa* Lindl. (1)

Cerro Chiquito - 5000 ft. P.D. - 7/12/47
collected by Dorothy G. S. (see page 9 photo)
587. *CANARIUM*. Fls. white. Lvs. pale yellow - ①

Rio Chico - V. de Y. - 25 ft. - 7-11, 1947 -

- 588 - *LEONIA* - TREE - 50 FT. Fls. white - ③
589 - *LEONIA* - TREE - 50 FT. common - ③
590 - *RUCHEA* - SHrub - 17 FT. Fls. ^{white} - ④
591 - *WARSEVICIA COARCTATA* - TREE - 20 FT. -
BRACETS RED - ⑦
592 - *ORONIA* - SHrub - 8 FT. Fls. white - common - ③
593 - *CISSIS* - VINE - Fls. ^{bracts red} - common - ③
594 - *APICINARIA* - SHrub - 8 FT. Fls. yellow - ①
595 - *CUCURBITACEAE* - VINE - common - ③

HANDWATAS Rio Chico, P.D. Province -
6/12-13/47 -

- 596 - *COMPOSITE* - TREE - 20-30 FT. - 10
on much BRAS - Fls. pale yellow
& characteristic of the upper level - ③

RIO CHARRAS - VERY NEAR SUMMIT - 80 FT.
 JUNE 16, 1947 - Collected by Dorothy Allen

5097 - RUBIACEAE - SHRUB - 12 FT. FL. ^{white} ~~pink~~ (5)

SUMMIT CERRO SANTA RITA - CORDON ROJAS
 1200 - 1500 FT. - 9/13/47 - with Dorothy Allen

5098 - COMPOSITAE - VINE - 1 FT. ^{FRAGRANT} ~~white~~ (6)

5099 - TERNstroemia - SHRUB - 6 FT. ^{FR. PINK} ~~white~~ (5)

WOOD ROSE - COMMON - (SEE LAST SPECIMEN) (5)

5100 - RUBIACEAE - WOODY VINE - FL. WHITE -
 VERY COMMON - FRUITS RED (6)

5101 - SYMPHONIA - ?? SHRUB - 5 FT. ^{YELLOW LATEX} FL. PINK (7)

5102 - EUPHORBACEAE - TREE - 25 FT. FL. ORANGE
 Y. FLOW. - COMMON - (SEE WOOD SPECIMEN) (7)

5103 - HABRUARIA - TENDER VINE - 5 FT. ^{FR. WHITE} ~~red~~ (3)

5104 - ^{FRAGRANT} ~~FRAGRANT~~ ^{FR. YELLOW} ~~FR. WHITE~~ - 5 FT. ^{FR. WHITE} ~~red~~ (6)

5105 - BIGNONIACEAE - VINE - FL. YELLOW - (3)

5106 - ^{EPHEDRACEAE} ~~TERNstroemia~~ - VINE - FR. VERY PINK (9)

5107 - TERNstroemia - SHRUB - 4 FT. FL. WHITE (2)

5108 - ^{VINE} ~~ABOCHIA~~ - FL. pale yellow - VERY STRONG (6)

FRAGRANCE AT NIGHT & EARLY MORNING EXACTLY
 LIKE CESTRUM NOCTURNUM (6)

TERRAZZINI

- 5109 - *Sobralia* - B. & P. Cream yellow - leaf cream yellow - when present darker yellow - NOT PRESENT. (SEE PICKLE & JUNE) (1)
- 5110 - *Polystichum* - B. & P. - no yellow - (1)
- 5111 - *Epidendrum* - B. & P. - yellow - if present white - E. P. - (1)
- 5112 - *Sobralia* + *Epidendrum* - B. & P. - pale blue - leaf deep blue. (SEE PICKLE) (1)
- 5113 - *Phoradendron* - B. & P. - (1)
- 5114 - *Scaphytophrys* - B. & P. - (1)
- 5115 - *Scaphytophrys* - B. & P. - (1)

TRAILS - ISTHMIAN HIGHWAY - STEEP ROAD CUTS NEAR RIO ROTUNDO - 500 FT. 9/13/42

- 5116 - *Sobralia* - B. & P. - pale cream yellow - leaf pale yellow - when present darker yellow - growing in red clay on face of road cut. THESE CUTS WERE MADE ABOUT 1942-43, HENCE THE PLANTS MUST HAVE ESTABLISHED THEMSELVES IN THIS LOCALITY BEFORE THAT DATE. NOT SHOT IN THE MOUNTAINS OF M'RIDIO LAVINA AND FLORES, AS WELL AS SEE OTHER CHUSIAS. (SEE PICKLE) (2)

8044. FORT CHARLES Cr 2. 0 mi. 9/12/47

5117. DERMACEAE - Climbing Spiny Plant -
F. frequent - F. C. - STAW yellow - (1)

5118. PTEROCARPUS - TREE - 20-60 FT. F. C. - common -
SAY BIRD PLANT - smaller sized trees frequent
ON MOUNTAINS OF VANARIVE. SURROUNDED BY
ACROSTICHUM FERN - LARGER TREES frequent
ON HIGHER GROUND - (SEE PARROTWOOD & 11000
specimen) (12)

8045. MIMOS. Cr 2. 0 mi. 9/13/47

5119. LEGUMINE - SHrub OR small tree - 15-17.
F. C. - purple - common - infrequent. (7)

FORT SAN CARLOS Cr 2. 0 mi. 9/13/47

5120. MORACEAE - RHOPIUM? - SHrub OR small
tree - 10-15 ft. below ground protected by
ANTS. (6)

5121. FERN - FORMING LARGE ANSPEROUS CHANGES
ON THE BRANCHES OF LARGER TREES - (5)

5122. MIMOSACEAE - SHrub - 5 FT. F. C.
PINK - (5)

El Valle Capitulo - 1901 ft. 4/14/47

5123 - STANNHEIA - SEE DRAWING PICKLE & PHOTO - (1)

Limon Island - Volc. Nueva Limon - Cuzco, San Juan Lake.
FO 17, SEPT. 24, 1947 - Collected by Walter Coye

5124 - CATASSTUM BICOLOR - (SEE PICKLE) SEE DRAWING
MANUSCRIPT FOR DESCRIPTION - (1)

0.2
Volc. RAMBORA - 150 ft. SEPT. 25, 1947

5125 - *CESPEDEZIA MACROPHYLLA* SEEM. *ORCHNACERAS*
TREE - 75 FT. - 2 1/2 FT. DIAMETER.
Flowers yellow - Intergrowth -
(WOOD SHAPKE SAW SEES) (5)

Rio Limon, Ramoras - Volc. Pico Pico - 150.
RAMBORA 6/9/47 -

5126 - *MORICOLA* sp. S. I. P. YAN - S. I. YAN - brown - leaf
YAN, with red brown stripes, crest and white
blotch at base of leaf. Column whitish yellow.
Common on large trees. (A)

5127 - *Zaxifolia* - 2147, yellowish green, lig. dark
margin - very common - (3)

1000 ft.
YUC., DOHERT CARRIZAL PROVINCE, Flowers in rose
collection of HARRISON, Sept. 28, 1947

5128 - *Cycnocheilus venosus* - Staminate fls. (1)

CARRO SANTA RITA, 1200 ft. color greenish
fls. Anther 9/27/47

5129 - *Polypodium* - 1 fl. greenish yellow - (1)

EL VALLE DE ANON, JAMA DEL TOLDO, 2000 ft.
fls. Anther 9/27/47

5130 - *Epidendrum* - 2147, pale green, bracts red - flowers
lig. white, narrow purple - (SEE PHOTO) (1)

RIO LIMON, DOHERT CARRIZAL PROVINCE, Flowers in rose
collection 9/27/47

5131 - *Epidendrum* - (1)

1/2 m. N. of Santa Rita, Santa Rita, Santa Rita, Santa Rita
SAMBOA 9/28/47

5132 - *Platanus*, etc. *Platanus* (2)

Cerro Santa Rita, Santa Rita, Santa Rita, 1200 ft.
Sept. 30, 1947

CESPEDEZIA MACROPHYLLA Seem

5133 - Tree - 60 ft. fls. color yellow - frequent (8)

Trans. Santa Rita, Santa Rita, Santa Rita, Santa Rita, 200 ft.
Sept. 30, 1947

CESPEDEZIA MACROPHYLLA Seem

5134 - Tree, 45-65 ft. fls. color yellow, frequent (8)

Fort San Lorenzo, Oriz., 50 ft. Sept. 30, 1947

5135 - Lauraceae, tree - 65-70 ft. fls. white, (6)
frequent

5136 - Scrophulariaceae - 15 ft. fruit red - fls.
white, milky latex. (1)

Flora - Distribution in Florida - Vol. 1, Rio Grande -
100 ft. 9/30/47

5137 - *Bignonia* - woody climber - in type of large
tree - Fl. yellow. (3)

Cuba - Santa Rita - Cien Fieles, P.O. Habana
9/28/47 collected by Dorothy S. Sargent

5138 - *Pithecolobium* (see *ginkale*) - plant - (1)

Revised number of 21 plants, 3000 ft. P.O. Habana
9/28/47

5139 - *Lythrum* - in type of large tree -
S. side of road of white, spotted fls
Fl. - light purple, yellow base. (1)

HILLS EAST OF MANAUA CITY - (SOUTH SIDE), 2000 FT.
10/1/47

5140 - TREE: 65-70 FT. FL. NOW YELLOW - FREQUENT. (1)

NEAR NUNU RIVER - COLLECTED BY W. H. HARRIS - 10/4/47

5141 - RUBIACEAE BUSHY TREE - 20-30 FT. FR. PINK

CERRO MUYANA - 3000 FT. FR. PINK 10/9/47

5142 - *Strophilia myrsinoides* (DC.) Hutch. - (FR. PINK)
(SEE NOTE)

UPPER END OF MOUNTAIN - 3000 FT. - 200 FT.
COLLECTED BY W. H. HARRIS - 9/28/47

5143 - *Trichilia*, FL. WHITE, FRUIT BROWN + LEAF
YELLOW: (SEE NOTE)

RIO TORUMU - 11 MILES EAST OF MANAUA CITY - 100 FT.
FR. PINK 9/30/47

5144 - *Passiflora* sp. - (1)

CHERRARA (Lamb) - 50 FT. E. of station 10/15/47

5145 - T. R. T. ... (1)

Very QUERULOUS type 2:

THANE - ... Highway 200 FT. ... 10/4/47

5146 - ... (1)

locality unknown - ... 10/4/47

Plumage ...

5147 - ... (1)

... 9.5 cm ... (SEE PLATE) (1)

Hills south of EL ... 10/1/47

5148 - ... (1)

VERY. ... 120 ... 11/2/47

5149 - CAYAS ...

(1)

VERY ... 12/2/47

5150 - BRASSICA ... (SEE ... & ...) - DESCRIPTION ... (1)

VERY ... Rio ... 10/2/47

5151 - ... (PICKLE ONLY) ... (1)

Rio ... PARA ... 11/9/47

5152 - ... (PICKLE ONLY) (1)

VERY ... PROVINCE - 500 ... 10/2/47

5153 - ... (PICKLE ONLY) ... (1)

Very Concealed - (Pickle only) - No. 10
Fl. number 7/8/47

5154 - *CYNODON DACTYLOIDES* - STAMINATE PLANT
(Pickle only) (1)

CRABAPPLE SWAYS NEAR PAVILION, OAK HILL
NUMBER FEB. 20, 1947

5155 - *ONOCLEA STRIATA* (Pickle only) (1)

Ric P. QUINN - UPPER MOUNTAIN TRAIL - OAK HILL
Fl. number 9/15/47

5156 - *ONOCLEA STRIATA* (Pickle only) (1)

ORIO TRAIL - 3500 FT. FEB. 10, 1947
ON NET AND PAPER

5157 - *URTICA* - 10. PICKLE ONLY (1)

CL. WALK - 1000 - 1500 FT. Fl. number 9/30/47
collected by Dorothy Allen

5158 - *ONOCLEA STRIATA* - PICKLE ONLY - SEE PLATE
& PHOTO - DESCRIPTION IN MANUSCRIPT - SEE PLATE
THREE PLANTS (1)

210 1000m 10.0. EAST SE 1/4 1/4 1/4 100 FT.
to 1000 7/20/47

ENSATUM

5159 - *Oxycoccus* ~~conspicuus~~ - (pickle only) 1000m 100 FT.
1000 7/20/47

(1)

CRATER LAKE 2000 FT. 1000m 7/6/47
collected by H. S. Gentry & S. W. Benson

5160 - *Campanula latifolia* - (pickle only)

(1)

5161 - *Thalictrum* - (pickle only)

(1)

EL VALLE MIPUÑO - 2000 FT. 1000m 7/6/47

5162 - *Oxycoccus* & *Bertolonia*? - 1000m 100 FT.
(pickle only)

(1)

CRATER LAKE - SE 1/4 1/4 1/4 100 FT. 1000m
1000 10/1/47

5163 - *Thalictrum flavum* - (pickle only) SEE PHOTO

(1)

5164 - *Caryophyllus* *viridis* (pickle only)

(1)

VERY CRYPTIC, COLLECTED FROM THE
F.D. MOUNTAIN 4/29/47

5165 - *CATERPILLAR* *CHRISTOPHERI* S. BRISTLE GREEN ON
REVERSE SURFACES, DENSELY SPINNING LIND BROWN
ON FRONTAL SURFACES. PLATE DENSELY SPINNING
LIND BROWN ON REVERSE SURFACES & IRREGULARLY
& HEAVILY SPINNING LIND BROWN ON FRONTAL
SURFACES. POINTED 1/3 OF MAX OR MOUNTAIN ON DIP
GREEN, SKINNING TO CORNIFORM PURPLE, WITH
FRONT, YELLOWISH GREEN MOUNTAINS -
MOUNTAIN OF GREEN & YELLOW - MOUNTAIN
NOT CONSIDERED - (Pickle Ledge) (1)

EL VALLE - 2000 FT. SOUTH - F.D. MOUNTAIN 4/29/47

5166 - *CATERPILLAR* *AUREA* (STIMULATED P.H.) PICKLE LEDGE -
S 19 P. BRISTLE WHITE, WITH SPARSE SPINNING OF
FEE BROWN - BY MOUNTAIN, MOUNTAIN TO ONE TWO THREE
THREE PROGRESSIVE PICK LEDGE, COLLECTED FROM MOUNTAIN
MOUNTAIN OF YELLOW - (1)

YUCY. REMEDIOS, VERACRUZ 2500 FT - 10/6/47

5167 - *C. tenuis* (Pickle only)

SP. PLATE -

(1)

YUCY. LA CATEDRAL - 2000 FT. HAMBON 8/20/47

5168 - *Oreocera* (Pickle only) SP. PL. Yellow

Blotched brown - brown - flower of yellow - 1948

fl. bright yellow on both sides, crest

Blotched brown -

(6)

CARRO BAMBONA - 2500 FT. HAMBON 8/18/47

5169 - *Pescadore* (Pickle only)

(1)

YUCY. REMEDIOS - CHIQUILA PROVINCE - 100 FT.

HAMBON 7/12/47

5170 - *Epidendrum* (Yungue) SP. PL. (Pickle only) (1)

CARRO TUTE, YUCY. SANTA FE, VERACRUZ PROVINCE

HAMBON 8/30/47

5171 - *Pescadore* (Pickle only)

(1)

5174. Rio TATEBA - (High in Province) 50 FT.
Fls. in the collection of NATHAN FAIRBANKS.
9/25/47

5172. OENOCHARIS VENTRICOSSA (THIS IS A VERY
SMALL FLOWERING PLANT, WHICH SHOULD PROBABLY
BE GIVEN A NAME) PICKLE ONLY -
(FLOWERS ARE FROM TWO PLANTS) (1)

Cerro SANTA RITA, COLOR PROVINCE. 1500 FT.
10/15/47 - WITH NATHAN FAIRBANKS.

5173 - BERBERIDACEAE - LAX SHAUB - 8 FT.
fls. yellow - in heavy forest with
TREE FERNS. (9)

Locality unknown. ^{Peak of hills} PROBABLY NORTH OF EL SATE
Flowers in the collection of NATHAN FAIRBANKS.
10/23/47

TRICORARIA?
5174 - NOTYLA - (PICKLE ONLY) (1)

7000 FT.

CARRO TUTU, 1277 SANTA FE, AVERANAS PROVINCE
TOWARD IN THE COLLECTOR'S BOTTLES DISTRICT
9/8/47

5175 - STANHOPEA guili - (pickle only) (1)

EL VALLE - 2000 FT. 1st. in the collection of
GRABER FAIREHILO 9/12/47

- 5176 - STANHOPEA - (pickle only) (1)
- 5177 - EPIDENDRUM DIFFORME (pickle only) (1)
- 5178 - CATASETUM VIRIDIFLAVUM (pickle only) (1)
- 5179 - BRASSIAS (2 sp.) NOTE DIFFERENCES in
Base calli, (pickle only) (1)
- 5180 - MIMONODE (pickle only) (1)

CARRO SANTA RITA, CUBAN PROVINCE, 1200 FT.
1st. in RAMBOA 10/25/47 WITH GRABER FAIREHILO

5181 - CATASETUM BICOLOR - 3/4 sp. pale flesh pink
lip white, spotted & marbled red-brown.
(SEE pickle) (SEE PHOTO) (1)

EL VALLE, FLOOR, 1500 FT. ITO. TAMBOA
10/25/47

5182 - MORMODES - S. Y. P. TAN, AROUND REDDISH
BROWN - WITH PARALLEL LINES OF BROWN
SPOTS. LIP YELLOWISH BROWN, WITH A
RECURVED BROWN TIP, AROUND BROWN.
COLUMN PATE GREENISH YELLOW -
(SEE PICKLE) (1)

CARRO CAMPANA - 3000 FT. CLOUD FOREST
ITO. TAMBOA 10/25/47

5183 - MAXILLARIA (CAMARICINIA) S. Y. P. BRIGHT
YELLOW - LIP BRIGHT YELLOW, MARKED
SCARLET UNDER THE PURE YELLOW
COLUMN - (SEE PICKLE) (1)

5184 - COELIOPSIS HYACINTHOSMA - SEE CRIPTON
OF FLOWERS IN MANUSCRIPT TAKEN FROM
THIS PLANT - (SEE PICKLE) (1)

Cerro Santa Rita, Chiriquí Province - 1200 ft.
F.D. RAMONA 10/18/47

5185. *pleurothallis* - ~~sejula~~ *sejula* MARCON, WHITE
AT THE SOMEWHAT SAGGATE BASE. INNER TIPS
E. *sejula* var. *petala* MARCON, WITH FINE
MARKING, WHITE AT THE BASE, LIP MARCON,
WITH WHITE TIP. (pickle only) (1)
- 5186 - *Dichaea* - S. & J. *petala* lip purple
(SEE PICKLE) (1)
5187. *epidendrum* MARCON (SEE PICKLE) (2)
5188. *caecid* - (*scaphyloides*?) fls. orange
common (pickle only) (1)

Rio Lirio, Honduras, very. Pina Blanca - fls.
RAMONA 6/18/47

- 5189 - Pickle only (1)

EL VALLE - 1800 FT. STO. RAMBONA 8/24/47

Collected by WROTH & ALLEN

5190 - *TRICHOCISTANUM* (PICKER ONLY) (1)

CARRO SANTA RITA, CELAYA PROVINCE
1200 FT. STO. RAMBONA 10/22/47

5191 - *MAXILLARIA* - Fls. white - PROBABLY SAME AS
THAT COLLECTED BY FAIRBRIDE ON MAROEN
LAKA - (1)

VALLEY, PROGRESO - CHIQUIPUI PROVINCE -
1000 FT. STO. COLL. HARRY DUNN 10/26/47

5192 - *CYCNOCHEUS VENTRICOSUS* (1)

CARRO SANTA RITA, 1200 FT. STO. COLL.
GRAHAM FAIRBRIDE 10/26/47

5193 - *DICHAEA* - D. 4 ft. pale green - tip pale
GREEN - HEAVILY MARKED PURPLE - (1)

CARRO SANTA RITA - 1200 FT. 10/15/47

5194 - TRIDONIDIUM - (5)

5195 - SCAPHYTHOIDS - fls. pale lavender - (1)

5196 - EPID. NOCTURNUM - foliage coppery red - (1)

5197 - HAXISIA - S. fl. & lip scarlet - lip with basal fleshy yellow callus - (1)

5198 - epiphytic ORCHID
FRAGMENTARY flower - produced from basal leaf axils (1)

El Valle - Loma del TI'ARE - 3000 FT.
PROV. SANCHA 10/15/47

5199 - PLEUROTHALLIS COOPIKHOEYS? - (1)

CARRO YUTE, REGION WEST OF SANTA FE, VERAGUAS PROVINCE, 3000 FT. PRO. SANCHA 10/18/47

5200 - STANNOPERA JULLA, fls. only in pickle (1)

5201 - ONCIDIUM STOBILIFERUM - sterile - (1)

~~THIS COPY IS UNCLASSIFIED~~

~~SEE OK. REPORT THAT COPY~~

① - [faint handwritten text]

② - [faint handwritten text]

③ - [faint handwritten text]

④ - [faint handwritten text]

⑤ - [faint handwritten text]

⑥ - [faint handwritten text]

⑦ - [faint handwritten text]

⑧ - [faint handwritten text]

⑨ - [faint handwritten text]

ask

USE ACCO PAPER  FASTENERS FOR BINDING
ACCOPRESS BINDER
No. BD 490