

Norma

MARCA REGISTRADA

COLEGIO

E. P. Kellie

Cuaderno de

Colombia - 1944

Pertenece a

38443 - anal

E. P. Kellogg
Apt. 570, Cali

Melilotus alba OK!

HUC (Garcia) 447

is *Desman*; common, not affine?
check

HUC (Garcia) / 447

is Desm. : canum, not affinis?
check

Peru ~~to~~ 3005 is

Desm. josephinae not
introduced

Ch. T. L. L.
work in Trenchburn

Z. diphylla (Tylr.)

known.

Uma, ¹ Geneshauch Maria in 1933 (LS)

Perez 2224

1
Centrosema pubescens here,

not Clit. subgynae

Melilotus alba OK!

"La Picota", near Bogota,
Garcia 7

Try to get away from
stipules produced

PLANTS OF VIRGINIA

No.

PAUL C. STANDLEY, Collector

Det. Stylus. capitata at DMC by E. C. C. report
Dmc 2237, 2412 — Check.

HB 59 "S. bifida" = ?

~~Stylos. guianensis~~ (LS)

~~Cand. Sasaina~~

Sasaina, Antonio Cuneo
in 1941; Silvano Jorge

" " ; Mr. Ricardo in 1942

Boyaca: San Mateo, Villareal
in 1940

Vielavie, Apol. Mar in 1929,
Niceforano ¹⁹²⁷
Medellin, Jan 4 68

~~Trinidad~~

Melilotus alba - Guatavita, Anita Joseph
Geneband Marie (in 1919 (LS).
Une, ~~Don~~ in 1933 (LS)

Trif. pratense

Angola, Apoll. in 1924 (LS)

Galactia striata

HUC 465 (Hartweg, J. C. C.)

same as our *Apulo speciosa*. Scarcely
striata

Papilionaceae Notes
made at Huc. To insert

LEVELS OF CORIN BICY

PLANTS OF COSTA RICA

Beuthamania

Perhaps 2 things under caribaea,

Large-^{3200m.} - lvs - Herveo, Irian a; Hught 2411,
Smith 278, Archer 3341

Small end. Anal. 1102, 1070, Smith 2042

Gliricida sepium is probably not native to Colombia. Widely used for shade and hedges, but always found near human habitations. I have not seen it wild in forest.

notes above
EVC 33036

Desmodium L.

~~not det.~~

adscendens (Sw.)
DC.

EVC 35533

Desm. campylocladum
Hemsl.

atropurp. (LS)

Col.: Espinal, Apol. in 1928

Rh. vulgaris L.

And.: El Ocaso, Herm. Guebea and Maria

Von Sueden

Esperal

410 Calceoloma

Vicia setifolia Harms: Cumbal, 3700m; #407

Bomarea plumbella Lagomata, Salento, 3000m. in

" *polynema* " " " 3244

Trifolium filiforme Guss " " 2800 sm.

Tournefortia scabrida HBK (ul. scabrid fr.) Tolima: Toche 2200m. - 3314

Mucuna mollis - El Tumbaco, 1700m, - m. 219

Tournefortia curatilis - Tolima: Toche, 2300m m. 3063

Bomarea densiflora - Harms: Cumbal, 4000m, + III-19-41

Trifolium repens - " " 3500m II-10-41

E. P. Keeley
Apt. 570, Cali

38443. *Sapot?*

Tr. $\pm$ 4 m; ~~with~~ fr. black, shiny.

444. *Clethra*

Tr. $\pm$ 3 m.

445. *Psychotria*

4-5 m; calyx & br. of inflo. red; cor. deep pi, paler below

46. *Asplenium*

~~447~~

447. *Philodendron*

Ep. & ter; spathe pi tow. base, greenish above; spadix, ^{lower 1/2} light gr. ~~lower~~, pi. upper 1/2

448. Moss

Contt.

449. *Fungus*

On tt; cap deep pi. beneath, whitish above & pi at margin

450. *Anthurium*

Ter.; spathe, greenish pink out; ^{lower portion green.} reddish purple in; spadix greenish wh.

451. *Alchornea*

36-8 m; inflo. greenish wh, borne on main branches

452. *Hedyosmum*

Tr. 8-10 m; inflo. light gr; fr. wh.

453. *Polypodium*

Ter.; repant

454. *Hymenophyllum*

On tt, fronds drooping

Cauca: La Capilla

5/24

Columbia

1944-

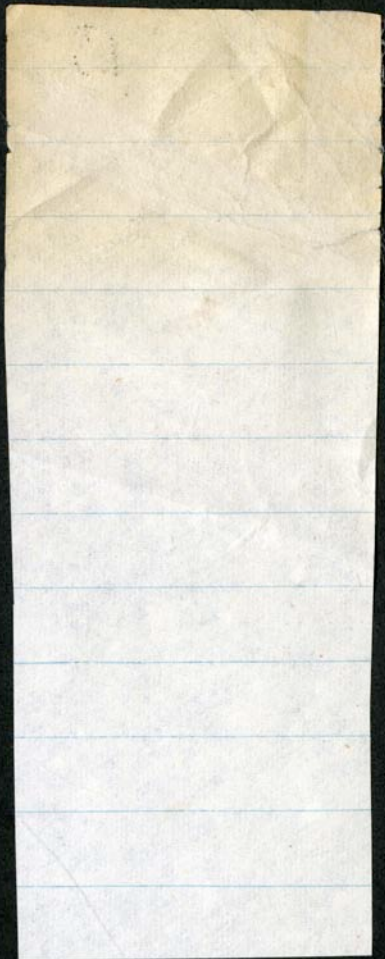
38443-39225

Columbia



1944-

38443 - 39225



38443. Rapet?

Tr. $\pm$ 4 m; ~~with~~ fr. black, shiny.

444. Clethra

Tr. $\pm$ 3 m.

445. Psychotria

4-5 m; calyx & br. of inf. red; cor. deep pi, paler below

46. Asplenium

~~447~~

447. Philodendron

Ep. & ter; spathe pi tow. base, green above; spadix, ^{lower} 1/2 ~~light~~ gr. ~~lower~~ 1/2, pi. ~~upper~~ 1/2

448. Moss

On T.T.

449. Fungus

On T.T.; cor. deep pi. beneath, whitish above & pi at margin

450. Aulchum

Ter.; spathe, green purpl. out; ^{lvs distinct ben.} reddish purpl. in; spadix greenish wh.

451. Alchornea

36-8 m; inf. greenish wh, borne on main branches

452. Hedysolum

Tr. 8-10 m; inf. light gr.; fr. wh.

453. Polypodium

Ter.; repent

454. Hymenophyllum

On T.T., fronds drooping

Cauca: La Capilla

5/24

38455. Fern

On tt.

456. Moss

Ter.

457. Peperomia

On tt

458. Acl.

Base of tt; per. pi.

459. Ficus

Tree 8-10 m, tr. 30 cm. diam

460. Palicourea

Tr. 4-6 m; cor. red.

461. Peperomia galindii

On tr. tr.

462. Anthurium

Ter; spathe gr.; spadix deep purple

463. Elaph.

Ter.

464. Polypodium

Repet on T

465. Lycopodium

On tt, drooping

466. Lichen

On t. Pl. bright gr. above, dark brown beneath, wh. toward tips

Causa: La Capilla

5/24

38467. *Beck.*

Ep; per. greenish wh.

468. *Brom.*

Ep. Infl. stalk 5.5 ft. long.

469. *Visinia lehmannii*

Tr. 6-8m; fruit green deep green

470. *Buconia*

Tr: 6-8m.

471. *Clusia*

Tr. 6-8m; pet. red (not collected)

472. *Myrt.*

Tr. 6-7m; fr. 7-9, int. mature

473. *Alchornea*

Tr. 7-8m.

474. *Euph.*

Tr. 6-7m.; infl. green ♂

475. *Euph. saum*

Infl. ♀

476. *Metlandia*

Tr. 7-8m; fls. greenish wh

477. *Lacistema*

Tr. 6-7m

478. *Peperomia*

on T.

Causa: La Capilla; dense forest along stream. 5/24

In open

Edge of woods along stream

38479. *Polyodon*

Repet on T. T.

480. *Vismia*

Tree 6-7 m.; ^{ben.} inf. & leaves rusty brown (change after flowering sp. from 46954)

481. *Tibouchina*

Low 5 40-60 cm; pet. deep pi; fil. wh.; anthers y-g

482. *Mikania scandens*

H.V.; fls. greenish wh; styles wh.

483. *Lichen*

On branches

484. *Lichen*

AO.

485. *Saurauia*

Tree 6-8 m; pet. wh.

486. *Befania*

S ± 2 m; cor. pinkish red.

487. *Calea*

S with long, br ± 1.5-2 m; flowers y

488. *Calea glomerata* Walt. ! Epoc.

Compact S ± 1 m; flowers y

489. *Tibouchina*

S ± 1.5 m; pet ~~orange~~ purple

490. *Befania*

S ± 2 m; cor. light pi.
(color form of 486?)

La Capilla; Edge of woods along potrero.

5/24

Wet soil

Outcrops in open

" " " woods

Edge of woods

Roadside thickets La Vuelta de Cajibío, 23 km. W. of Pop.

38491. Eric.

Low, compact sh.; fr. wh.

492. Eupatorium

Stems $\pm$ 40 cm.; florets o styles rich pi.

493. Eup.

Low sup. h up to 30 cm.; florets pi.

494. Liabum

S $\pm$ 1 m; florets bright y

495. Viburnum

~~Shrubby~~ ~~tree~~ Small tree, up to 2.5 m

496. Rhue

Tree up to 6 m; ripe fr. deep purple.

497. Cordia

Tr. 6-7 m; trunk $\pm$ 25 cm. diam.

498. Moss

On steep bank

499. Ficus

Tree $\pm$ 5 m

500. Clusia

Tree 7-8 m.

501. Weinmannia

Tr. 4-6 m

502. Lapechiumia

Shrub up to 4-5 m; cor. wh.

Roadside thicket, La Venta de Cajibío

5/24

La Venta de Cajibío

Same place, road to Cali 20 km;

5/24/44

Photo

Roadside

Causa:

La Cabrera, bet. Popayan & Purace

5/26/44

2000 m.

38503. Elaph.

On bank

504. Gesn.

H; cor. rich pi ^{wh. at base.} out, tube wh. in, lobes green, purple-spaced.

505. Gesn.

H. with thick rootstock; cor. r.

506. Dahlia lehmannii

S up to 2m; rays bright pi; florets y

507. Stevia

S 1-1.5m; ^{irascens} florets wh.

508. Moss

On moist bank

509. Viola

Spreading h; pet. wh, pink-tinged; s

510. Grass

511. Grass

512. Hieracium latifolium

Infl. golden y - Erect herb

513. Calceolaria

Ex. Sup. h. 40-50cm; cor. golden-y

514. Calceolaria

H, spreading 50-70cm; " "

Near Puracé village, act. + Rio Ananabio

5/26

2200 m.

Open bank

P

2500 m.

+ first shot ~~3100~~ 3100 m. Trea Chorro,
just below Par. de Puracé

Open bank

Slip bank

38515. *Hydrocotyle*

H, repent on moist bank; lvs. lustrous

516. *Oxalis*

In dense clumps; ^{with long. lvs.} pet. 7 (large), pink - striped

517. *Fuchsia*

S ± 40 cm; fls. scarlet

518. *Polypodium*

Ter.; in shade

519. *Mutisia*

Sup. vine; rays bright red; fls. (main rays) ^{violet anthers} deep red; st. 4-9.

520. Moss

on bank

521. *Tibouchina grossa*

Compact S, ± 60 cm; fls. deep red.

522. *Lepechinia*

Compact S 60-80 cm; cor. pinkish white (seeds separate)

523. *Epilobium*

On steep wet bank, H; fls. deep pi to wh.

524. *Coupe*

Coarse to 30-40 cm; rays pinkish wh.; thick stalk

525. *Hypericum baricifolium*

! Cuatr

S 20-50 cm; fls. bright y, large

526. *Senecio uncinifolius* (S. *mutisii* Cuatr. f.)

Compact S 1-1.2 m; fls. light y

Fres Chorro

5/26

Open bank

Steep bank

Rio Cocuy, Par. de Puracé, 3200-3400 m.

38527. *Senecio canescens*

Comp. sh. to 1m; fls. y

528. *Bartia* ✓

Erect h, to 80cm; cor. pi

529. *Apium*

H, ^{sup}erf. at base, branches erect; fls. wh. ^{30-50 cm.}

530. *Baccharis*

Compact S 1-1.3m; bracts deep purple.

531. *Werneria*

Caesp. herb; rays y

532. Moss

On wet bank

533. *Fungus*

Ter in open; caps salmon

534. Grass

In open

535. *Jamsonia grandis*

Erect, under shrubs

536. *Isaetes*

On steep wet bank.

537. Lichen

On twigs

538. *Sol. pumila*

Low suffr. h; cor. blue; anthers y

Rio Cocuy, Par. de Puracé 3200-3400m.

5/26

In open

Wet bank

Thickets

In open

38539. *Hypochaeris*

H; rays golden y

540. *Rosa*

541. *Comp.*?

542. *Sphagnum*

543. *Geranium*

Matted herb; fls. light pi

544. *Lichen*

Erectly wh. herb. young plants above, becoming gray brown

545. *Haleisia*

Coarse h. ^{up to} 1.5 m.; cor. greenish w or yellowish gr.

546. *Lachenilla*

H, prostrate br.

547. *Lachenilla*

do.

548. *Hypericaceae*

Er. s, 25-35 cm; fls. y

549. *Opalis*

Low h; fls. y

550 *Ranunculus*

Spreading herb; sep. y

Rio Cocuy, Par. de Purace 3200-3400 m. 5/26

de Puracé
Paramo, 3500 m; sphagnum marsh

38551. *Alnus*

552. *Eleocharis*

553. *Geranium*

Low matted herb, stem $\pm$ woody; pet. deep blue

554. *Silene*

Slender upright h.; cor. deep red-purple-red

555. *Eleocharis*

556. *Moss*

557. *Plagiobothrys*

St. upright.

558. *Scirpus*

~~559~~

559. *Chenopodium*

560. *Marchantia*

561. *Lupinus*

Low herb; pet. purplish blue

562. *Baccharis*

Compact S, $\frac{1}{2}$ m.

Par. de Puracé, 3500 m.; 5/26

38563. *Engeron*

Erect herb; fls. greenish y

564. *Castilleja*

Erect h., simple or few-branched, 30-40 cm; bracts gr. to red;

565. *Arracacia*

8 Coarse h. 1-1.5 m.; infl. gr.

566. *Lupinus*

~~Spreading~~ herb 40-60 cm.; fls. deep purplish blue, etc. pale

567. *Rhynchospora*

Coarse herb; 80-100 cm.

568. *Moss*

On bank

569. *Polytrichum*

" "

570. *Valeriana*

Caesp. herb; cor. pure wh.

571. *Comp.*

Erect herb, unbranched; fls. y

572. *Diplostephium*

Compact S, ± 2 m.

573. *Lonicera*

S 20-40 cm.

574. *Lachenilla tenuifolia*

Sphagnum. Par. de Puracé, 3500 m

5/26

cor. greenish y

(Eastern slopes)

(Western ^{side} slopes) sphagnum bog.

moist soil

" "

Sphagnum

" "

38575. *Gentiana sedoides*

Cor. ~~light~~ light blue

576 *Lachenilla galioides*

Erect or lax herb,

577. *Gentiana*

Erect suffr.; cor. purplish blue, later in.

578. *Bartonia*

Slender herb; cor. pink

579. *Stellaria*

Lax herb; fls. wh.

580. *Carex microglossa*

581. *Senecio vacuoides*

Pl. suffr.;

582. *Rhynchospora*

Coarse herb, ± 1.5 m.

583. *Juncus*

~~583~~

584. *Valeriana*

Inf. greenish

585. *Eschscholzia*

Stem 50-70 cm; rays golden-y.

586. *Blechnum*

Thick rootstock

Photo

Sphagn. marsh Par. de Purace, 3500 m. 5/26

moist bank

Sphagn. marsh

Dry par. & sphag. marsh

38587. *Puya*

Plant (this one) 95 cm. high; thickest part of flower-stalk, near apex

588. *Lachenilla gracilis*
H. with
Erect br.

589. *Hachelia*

Herb; corolla obly blue
590. *Cyrtopteris*

591. *Blechnum*

592. *Coum*

Erect herb; fls. y.

593. *Rumex*

Coarse herb, up to 2 m.

594. *Bomarea*

Erect h. Sep. bright r; pet y, with a few medium-size purple spots in

595. *Grass*

Pl. $\pm$ 1.5 m. high

596. *Chusquea weberbaueri*

Pl. erect, $\pm$ 1.5 m. high

597. *Baccharis* aff. *gans*

Pl. erect, 25-35 cm. high

598. *Grass*

Inf. deep purple

600. Toward base, Par. de Puna, 3500 m. 5/26

10 cm.; lvs. $\pm$ 35 cm. (3 specimens 1-1/2 spec 2, 1/4 spec.)

Eastern slopes of Paramo Puna, 3400-3500 m.

Wet bank

4

Paramo

38599. *Cardamine*

Slender herb.

600. *Lupinus*

Fls. stalk 65 cm. high, 12 cm. diam; pet. light blue, wings

601. *Ranunculus*

Prostrate in shallow water

602. *Fuchsia*

S ± 70 cm; ^{fls.} pet. red.

603. *Puccinia*

On 600

604. *Peperomia*

Dependent from branches of large tree

605. *Anthurium*

Elf. Spathe light gr.; spadix dark gr.

606. *Lycopodium*

Dependent from tree branches

607. *Rubus*

Semiprostrate shrub; pet. rich pi

608. Moss

With 601, Ter.

609. (Lichen) *Cladonia*

Plant ashy; Ter.

610. *Senecio*

Woody vine; fls. in bud only

Eastern slopes, Par. de Piracic, 3400-3500 m

5/26

West places

Western slopes

~~Paramo~~ Along Rio Coacy

striped with deeper blue, stamens deep blue at center in

Western slopes

Derrumbo ± 3400 m.

Paramo; moist soil, 3500 m.

Derrumbo ± 3400 m.

38611. ~~Eupatorium~~ Senecio

Compact S. ± 2 m; florets wh. ¹

612. Cassia

Sh. br. at base, with a dense crown ± 2.5 m. high & wide; pet. y

613. Pavonia

Low slender S, up to 60 cm. high; pet. wh.

614. Myrt.?

Low S up to 60 cm; pet. wh.

615. Melast.

S 1-2 m; pet. wh; fr. black

616. Ficus

Spikelets dark brown

617. Elaph. parvum

Ep.

618. Epidendrum nocturnum

Ep. 5 seq. green y, col. & lip wh.

619. Brom.

Ep.; flowering stalk 1.2 m. long, much-branched

620. Brom.

Ep. bracts green at base, purple above; bractlets gr, purple at tip

621. Polypodium brasiliense

See Ref. on tt.

622. Afoc.

Sup. vine; cor. wh; lvs. glaucous beneath.

Serrano, 3400 m.

5/26/44

↑ El Valle, Lobo Guerrero, 678 m. alt.

5/31/44

El Valle: Buenaventura Bay, Isla de Puntita de Arena, ^{near land} 6/2/44

Mangrove Swamp (1)

Woods at edge of (2)

(2)

(1)

(1)

1

1

1

1

1

- 38621 Bign. (1)
 to V. Subscand. S.; Cor. wh.
- 38624 Pelluciera (1)
 low to S on T, up to 10 m; ^{calyx o wh} pet. wh.; bracts light gr.
- 38625 Tillandsia bulbosa (1)
 Ep.
- 38626 Malp. (1)
 W. V; pet. y
- 38627 Eleocharis (1)
 In mud
- 38628 Myrt. (2)
 Tr. $\pm$ 3 m.
- 38629 Bromel. imbricata (1)
 Ep.; bracts ~~wh~~ gr. & red at margin
- 38630 Melast. (2)
 S 1.5-2 m; young fr. pinkish red.
- 38631 Melast. (2)
 T 5-6 m; young inf. w
- 38632 Crisia (2)
 T 4-5 m; buds wh.
- 38633 Codonanthe (1)
 Ep.; succ. h.; cor. wh.
- 38634 Epidendrum parviflorum (1)
 3 seg. y-9, 2 wh.; cal. o lil, ~~long~~ light y - Ep.

- 38635 Hippocrat. (1)
 W. V; fr. deep green
- ~~38636~~ 38636 Pavonia rhizophorae (1)
 S Erect, ~~unbranched~~ S, 50-60 cm.; pet. greenish wh.
- 38637 Rynchospora (2)
 Coarse herb; infl. whitish.
- 38638 Acrostichum (1)
 Fronds up to 2.5 m. long; young fr. often simple
- 38639 Guzmania (2)
 Ep. ^{calyx o bracts} Per. or-red lvs variegated light o deep gr.
- 38640 Thib. (2)
 S with elong. branches; epiphytic (?) young fr. reddish lower half, yellowish upper 1/2
- 38641 Melast. (2)
 Sh 2-3 m; ^{ripe} fr. deep purple; lvs. very ~~tough~~ leathery above.
- 38642 Anthurium (2)
 Ep. ^{deep} spathe gr.; spadix greenish wh.
- 38643 Carludovica bicolor (2)
 Ep.; spadix deep green.
- 38644 Bromel. (2)
 Epip.; branches of inf. o bracts red.
- 38645 Spathiphyllum (1)
 Scandent out l.; ^{spathe fine wh;} ~~fruiting~~ spadix light pink in fruit ^{or white}
- 38646 Anthurium linguulatum (1)
 Ep.; fruit red; spathe violet; spadix deep purple; fr. red
- 38647 Sphyrnospenn major (1)
 Ep. with drooping br; fruit wh.

Isla de Punta de Arena

6/2/44

38648 *Philodendron* (stems) (2)

Ep.

38649 *Elaph.* (1)

Ep.

38650 *Vitex* (1)

Ep.

38651 *Piper* (2)

51 m high; spikes wh.

38652 *Dicranopteris* (2)

Vine, hanging on bank

38653 *Malp.* (1)

Woody vine, high climbing on *Pelluciera*; pet. y.

38654 *Rhizophora mangle* (1)

This tree 12 m. high; lvs. lustrous above; calyx pinkish gr.

38655 *Poleptialya* (1)

Ep. in frt.

38656 *Alga* (1)

On base of tree tr., undulated

38657 *Alga* (1)

On base of tree trunk, undulated

38658 *Ilep.* (1)

On branch

38659 *Conocarpus erecta*

Sm. tree

Estero de Bodegas, Botuna Bay
all mangrove swamp

6/2/44

38660 *Avicennia* 38688

Tr., sometimes up to ⁺20 m.; cor. wh.

38661 *Ayclanthaceae* 38688

On trees; stem suberect; fruiting spikes deep green, lustrous

38662 *Sphynospenn cordifolia* 38688

On tr., dependent branches; fls. & fr. wh.

38663 *Sobralia* 38688

Ep.; 5 seg. y. g. out, deep red in; lip red out, & apex in, pink in lower half in; cor. wh.

38664 *Psammisia* 38688

Ep. on Mora; calyx light gr. - white; cor. red or light red; corona wh. Rosts system very large

38665 *Nuclearia* 38688

S, probably epiphytic

38666 *Anthurium* 38688

Ep. Spathes reddish br.; spadix pinkish brown

38667 *Odontoglossum* 38688

3 seg. y. only at base, elsewhere deep red, 2 seg. y, red-spotted; leaf mostly red. - Ep.

38668 *Elaph.* 38688

Ep.

38669 *Philodendron* 38688

Ep.; spathe yellowish; spadix y-g below, pink above

38670 *Renggeria* 38688

Ep. sh. on large trunks; fruit light green

38671 *Asplenium* 38688

On tree

Estero de Bodegas, Botura Bay 6/2/44
South shore

38672 Anthurium ^{fruit red}
(Spathes ^{fruit green} green; spadix light gr.) ^{old - spadix pink} Eh. ^{spadix purplish}

38673 Bromel.

Ef.

38674 Fungus

On trunk of mangrove

38675 ~~Polyf~~ Fungus

Plant wh. Hab. do.

38676 Polyporus sanguineus

Pl. red. Hab. do.

38677 Thick. Fungus

S ~~tracts~~ tracts ~~pink~~ pink; cor. wh. Plant wh.

38678 ~~Brom~~ Thick.

S; tracts pink; cor. wh

38679 Brom.

Ef.

38680 Rub.

S # 1.5-3 m.; ^{ripe} fruit bluish.

38681 Thick.

S; calyx pinkish wh.

38682 Wedelia

Herb, with long repent at base; rays y

38683 Leguminaria Tree, up to 10 m. high; ^{man "guanos"} fls. light y

Playa de Basán, entrance to B. B. 6/3/44
North shore ("Mangle blanco")

Playa Basán, Botura Bay, north shore 6/3/44

38684 Stigmaphyllon

H. V; pet. y

38685 Rhesperia

T3-4m Pet. or-y; stamens y

38686 Grass

Stalk; Infl. purplish

38687 Kyllinga peruviana - Hds. wh.

38688 Lantana

S 2-2.5 m. cor. r.

38689 Guilandina

Low, spreading shrub; fls. y

38690 Melast.

Small tree 2.5 m.; pet. wh.; fil. wh.; anther greenish y

38691 Costus

Er. shrub 1-1.5 m; br. red; fls. y

38692 Tuberosylis aillanensis Herb, straggling, 80-90 cm. long. lvs. ^{± succulent. On shaded bank}

38693 Borreria

Dense clumps on streambank; cor. wh.

38694 Piper

Shrubby T., 2.5 m.; lvs. lustrous above, pale beneath; ^{shiny} fls. wh.

38695 Asplenium

Rocky bank along bay.

38696 Abarema

Shrub tree, 25-30 m. high. along shore

Colorado, Botura Bay, north shore (non-inundated woods forest)

Colorado, W. shore Botum Bay, Non-inund. forest
6/3/44

Open places
along
"Cleaning"

38697 *Muellera*

"Barbasco" Low shrub, 1-1.2 m.

38698 *Rynchospora*

Tall herb, 1-1.3 m.

38699 *Cyperus ligularis*

Tall herb, culm to ~~2~~ 1.5 m. (seeds separate)

38700 *Fimbristylis*

38701 *Rub.*

with long br. S 2-2.5 m; cor. greenish wh; fruit purplish red

38702 *Rynchospora*

In clumps, Forest, infl. whitish

38703 *Asplen.*

H.V. with corolla a corona wh.

38704 *Salphichlaena volubilis*

Vine, often high climbing on tr. tr.

38705 *Anthurium*

Ter.; spathe grass green; spadix deep purple; fr. rose-red

38706 *Hypolytrum*

Coarse herb.

38707 *Nerualmia*

Leafy stem $\pm$ 3 m; infl. at base $\pm$ 30 cm; per. wh.; fr. red when ripe

38708 *Cyperus*

(seeds for C. U.)

Photo 1

2.2 x 1.8 cm

Colorado, W. shore Buena Bay, Non-inund. forest.
6/3/44

38709 *Piper*

Tr. 2-2.5 m, few-branched

38710 *Mikania*

$\pm$ sup. vine; florets greenish wh.

38711 *Dryopteris*

Ter.

38712 *Cecropia* (♀ infl. only a description applies to it)
bracteolabrous bracts red out, fruit wh. in; infl. greenish y; stip. dark red
Tr. $\pm$ 15 m, 12 cm diam. ♀ infl. y

38713 *Cecropia* (bracts red-streaked) Stipules red-brown out, white in (aments 20 in number)
Tr. $\pm$ 8 m; stem unbranched; (only) orange-y

38714 *Isolanum*

WV; fr. orange brown to orange-red, 3 cm. diam.

38715 *Cephaelis*

bracts purplish; buds white. Small. ovary green & wh-streaked after
Tr. 3 m, trunk erect, branched toward

38716 *Coccoloba*

Er. herb, 1-2 m; bracts red

38717 ?

Coarse herb, 35-40 cm; per. greenish y

38718 *Mikania*

H.V.; florets ~~greenish~~ wh.

38719 *Lam.*

Tr. $\pm$ 20 m; fruit dark green (wood samples)

38720 *Tournefortia*

J 5-6 m; fruit green

Colorada

non-mimetic 6/3/44

- 38721 Treefern
1-1.5 m.
Caudex 30 cm, but up to 1 m. high; frond 2 m, ^{stipe} petiole 50 cm.
- 38722 Melast.
Subsc. shrub, ~~with~~ long old fruit ashy white
- 38723 Polypodium
Ter.; stipe & frond 1.7 m. long.
- 38724 Scleria
- 38725 Philodendron
Vine on tr; apothecia obovoid 4-9, ~~spathe reddish~~ at base
- 38726 Philodendron trilobum
Ter.,
- 38727 ~~Lygodium~~ ~~trilobum~~ ~~Tr.~~
- 38728 Polyporus sanguineus ^{non-mimetic} Estero de Congrejo 6/3/44
Cleaning
- 38729 Solanum
Cor. wh, ^{flavish} tinged red; W.V.; fr. orange, 1.8 cm. diam.
- 38730 Tradescantia
Suc. herb, elong. stems, repent at base; per. pinkish blue
- 38731 Sol.
Small tree $\pm$ 4 m; fr. black.
- 38732 Rub.
W.V.; cor. wh.
- 38733 Clusia
Tree, $\pm$ 5 m; fruit ivory, brown-tinged at base; petals white

~~Estero~~ Estero de Congrejo non-mimetic 6/3/44
Congrejo

- 38734 Piper
S $\pm$ 2.5 m. high; spikes wh.
- 38735 Palm
Leaf 2 m. long; trunk 4-5 m, very spiny; fruit red.
- 38736 Carludovicia
Terrestrial; fr. green
- 38737 Tococa
Sh. $\pm$ 1 m; pet. pi
- 38738 Melast.
W.V.; pet. wh; anth. y
- 38739 Amphidesma
S 50 cm. high
- 38740 Neulama ^{Cleaning}
Herb, 40 cm. high; infl. y
- 38741 Hyptis
Sup. herb $\pm$ 1.5 m with divar. branches; cor. pinkish wh
- 38742 Maista ~~spicata~~ ^{Tococa} ~~spadiciflora~~ ^{Tr.?}
S ~~1-1.5~~ 1-1.5 m. erect simple stem; pet. wh.; anth yellowish-pink
- 38743 Rub.
S 2.5 m; cor. white; fr. deep purple; 12 mm. diam
- 38744 Pilea daguensis
Ter, sometimes sp.; infl. gr.
- 38745 Hef. on leaves of Rub.
~~Clusia~~
Sabaletas, Km. 29, Carretera del Mar 6/4/44

Sabaleras

dense forest 6/4/44

38746 Palm

Trunk 4 m; 3.5 cm. diam; inf. greenish wh.; info fr. ^{9 mm diam.} deep purple,

38747 Piper

Ter. h. $\pm$ woody; repent at base; stem simple, erect 25-35 cm high

38748 Calathea grandis

Lvs with pet 3 m. long; per. ~~to~~ greenish wh., ^{lip} pink; ^{young} ovary wh.

38749 Philod. cordatum

Spathes g. y-g. apax; spadix greenish wh low $\frac{1}{2}$, pink up $\frac{1}{2}$ Ter.

38750 Calathea

Lvs up to 2 m (incl. pet.); per. violet; lip wh.; antherium wh.

38751 Columnnea

Ep., stem repent; tubs or. pi, lobes 2; lvs red. at apex

38752 Dennstaedtia

Ter. 1-1.2 m.

38753 Marattia

Ter. (lost in fire)

38754 Dryopteris hirta

Ter.

38755 Meliomanes

Ter.

38756 Elaph.

Outt

38757 Piper

Sup. herb, 40-50 cm,

Sabaleras

dense forest

38758 Diolena

Ter. h.

38759 Costus

Er. h. $\pm$ 1.5 m; bracts red; per. y

38760 Canica

Low tr., $\pm$ 1.5 m; fls. greenish wh.

38761 Geonoma

38762 Peperomia

Rep. on trees; lvs succ., whitish hem.

38763 Peperomia

Rep. on trees, stems slender

38764 Psammisia

Ep. shr.; Calyx red; cor. wh.

38765 Gesn.

Tube pinkish wh. out, y-g in, ^{lobes} red-triged at center in ^{epi.} suffrutescent.

38766 Gesn.

Ep. shr.; calyx red; cor. y; fr. wh.

38767 Carludovica

Spathes ~~3~~ segm. 3, these with stem light gr.; Ep. vine; ^{ripe spadix} orange

38768 Palicourea

Sm. t., 6 m. high; ^{young} inf. greenish wh.; fr. black, lustrous, 4 m

38769 Pilea aff. latifolia

Ter., ~~2~~ 1 m high; inf. greenish

Sabaletas, 25 m.

dense forest 6/4/44

38770 Melast.

8 m. t. 4-5 m; pet. wh.; fil. pi; anther y; fr. deep pi; ^{10 mm}

38771 Piper

Ter.

38772 Melast.

Small tree, 7 m. h.

38773 Trichomanes diversifrons

Ter.

38774 Piper rugosissimum

Tr, 2 m.; fruit deep green

38775 Philod. hirtipes

Vine on tree

38776 Faramea

Small tree; fr. 20×12 mm.

38777 Calathea Rosea

Inf. basal; per. light y, red-streaked in; fruiting ^{lvs deep gr. above, pale} calyx red; leafy stalk ^{1.5 m}

38778 Heliconia

bracts red out, y in; per. greenish y; lvs. lustrous

38779 Geonoma

Stem 40 cm; fruit purplish

38780 Geon.

on road.

Ter. h.; cor. bright y

38781 ~~Galearia~~ Adiantum

Ter.

Sabaletas

dense forest

38782 Dennstedtia

Ter.

38783 Carludovica

Ep.

38784 Anthurium

Ter.; spathe gr.; spadix ~~deep~~ purple

38785 Columnnea

Ter; ± 60 cm; ~~fr.~~ y; lvs. red at apex

38786 Selag.

Wet bank.

38787 Piper

Tr. ± 3 m.; spikes 15 mm. thick, green

38788

Coarse ter. herb

Spathe deep gr. below, light gr. above; spathe wh. bel., pink above

38789 Hep.

On leaf

38790 Moss

Carretara; $\pm$ open

On very wet bank

✓ 38791 Piper

$\pm 2-2.5$ m

38792 Gurania

Woody herb. vine; calyx gr, lobes ~~orange~~ orange; cor. y

✓ 38793 Fischeria

N.V.; cor. greenish white

Sabaletas

Carretera

6/4/44

S. with long branches to 2 m.; cor. red.

38794 Gesn.

un. 15

✓38795 Fern.

Jer.

38796 Campanula

Cor. wh, lobes ^{spotted with red in; vine bracts light green} ~~pink in mouth~~ ~~with spotted with~~

✓38797 Hoffmannia

S, stem erect $\pm$ 2 m; young fr. whitish

✓38798 Cephelis barcellana (lost in fire)

Er. S $\pm$ 1.5 m; bracts bright red.

✓38799 Dioclea

Woody vine, calyx deep purp ^{lustrous;} ~~lustrous;~~ ^{pet. violet, stand purple - blotched in} ~~lustrous;~~ ^{keel wh}

38800 Ipomoea

H.V.; cor. bright pi.

✓38801 Clidemia

Er. S 1-1.2 m; pet w or pink-tinged; anther

✓38802 Piper

S $\pm$ 2-2.2 m.

38803 Cordia

S $\pm$ with branches spreading, $\pm$ 2 m.; cor. wh.

✓38804 Piper canescens

Sup. h $\pm$ 40-60 cm.

38805 Cyperus lugubris (L.) Retz (seeds for Ch.)

(Det O'Neil)

Sabaletas

Carretera

6/4/44

38806 Leandra

S $\pm$ 1-1.5 m; pet. o anth. pi

38807 Sol. Lost

W.V.; cor. wh; fr. or.

38808 Heteranthera reniformis

In pool in pasture; pet. wh.

38809 Lycopodium

On bank.

✓38810 Grass

Roadside

✓38811 Sabicea

$\pm$ Sup. vine; cor. wh.; fr. red.

✓38812 Peperomia

Slender vine on trees

38813 Solanum

S, 2 m; cor. wh.

38814 Bixa

Tr. 7 m; cor. pet. o wh.

38815 (Gesn.) Grantzia

Shrub, Jer.

38816 Hepatic

On t.

38817 Rhizophora mangle

↑ To show development of embryo into "shoots" for loc. see top next page

~~Calyx o cor. red.~~

Calyx o cor. red.

Dense forest

Pinel

Brentum Bay, so. shore between city and entrance to Rio ~~Bay~~ ^{Manigua}; 6/5/44

✓ 38818 *Epidendrum parvum*

Ep. 5 seg. pinkish, lip + col. wh.

✓ 38819 ~~*Epidendrum*~~

Ep. (sterile)

✓ 38820 *Epidendrum nocturnum*

Ep. 5 seg. 4-9; lip + col. wh.

38821 *Anthurus*

Up.; spathe gr.; spadix deep pi; fruit red.

✓ 38822 *Epidendrum*

Ep.; 5 seg. + lip wh.; col. greenish wh.

✓ 38823 *Lichen*

On br. of tree; fl. wh.

38824 *Struthanthus*

Par.; fls. greenish wh.; fr. red, 12 x 7 mm.

✓ 38825 *Alga*

On branches, often under water.

38826 *Eleocharis*

38827 *Hymenocallis*

Per. seg. pure wh.; ^{filaments} ~~stamens~~ + anthers deep pink; segs. 9 cm. x 10 mm (max.)

38828 *Bign.*; W.V. close to ground in grass; cor. cream (field)

Marsh at edge of mangles, near highway El Forge

Brentum Bay; fields ^{bet.} near highway to bay El Forge 6/5/44

38829 *Rynchospora*

± marshy soil

38830 *Conocarpus*

Swampy ground, edge of mangles

Trees 6 m;

38831 *Nepenthes aquatica*

H. ± 1.5 m.; pet. pi.

✓ 38832 *Melast.*

Lax herb; pet. lilac; anth. red.

38833 *Sarawagesia erecta*

Lax spreading herb; pet. pi.

38834 *Pavonia rhizophorae* Back of mangles but upland at high tide

S 1-1.2 m. high, much-branched above; pet. wh.; gem. tinged; anth. 4-9

38835 *Combret.* ^{4m} *Myrsine*

Small tree, compact crown, pet. wh.; anth. 4-9.

38836 *Passiflora auriculata*

climber in open

H. V.

38837 *Cyperus polystachyos* var. *tenuis* (Torr.) Fern. seeds

✓ 38838 *Alchornea*

Tr. 10 m, large, round crown; fls. ♂ greenish wh.

38839 *Bign.*

W.V.; cor. bright y

✓ 38840 *Piper*

S 2-2.5 m.; lvs. lustrous above;

Sabaletas, 25 m. 843 sq.
El Pailón, along carretera 841-844

6/6/44

Det. R. P. Killip

- 38841 ~~Couep~~ *Pectis swartziana* Less. ^{Det. R. P. Killip} ~~Roadside ditch~~
Slender herb up to 10 cm.
- ✓ 38842 *Scroph.*
Slender herb; cor. blue, lower lip yellowish out
- ✓ 38843 *Melast.* ^{Edge of stream}
Low, much-branched
herb; pet. magenta
- 38844 *Angelonia*
Er. herb, ± 30 cm.; cor. blue; tips ~~white~~
- ✓ 38845 *Melast.* ^{Edge of stream}
Tall herb; pet. pi.
- ✓ 38846 *Albizia?* ^{Roadside}
Tall tree, 30 m or more high (old fruit)
- 38847 *Jessu.* ^{Un. Crata.} ^{Thicket}
Ep. ^{herbaceous} vine; cor. tube red; lobes olive green
- ✓ 38848 *Pothomorphe*
Coarse herb up to 1 m; spathe wh.
- ✓ 38849 *Melast.* ^{Edge of stream}
Ep. Shrub; pet. pi; st. greenish wh.
- ✓ 38850 *Jussiaea*
Er. h.; pet. light y
- 38851 *Anthurin* ^{Thicket}
Ep.; spadix light pi.
- 38852 *Arac.* ["]
Ep.; spathe brownish red, paler toward apex; spadix y-g

Sabaletas, 25 m ~~843~~

- 38853 *Cryptanthus* ^{Thicket}
Par..
- ✓ 38854 *Dryopteris* ^{Forest along Rio Sab.}
Ter.
- 38855 *Cascania*
Tree, ± 10 m.; infl. greenish wh.
- ✓ 38856 *Acanth.*
Herb in dense clumps.
- ✓ 38857 *Acanth* ^{un. lc}
Er. h., ± 50 cm; cor pale pi, whitish toward base
- ✓ 38858 *Jurip.*
^{S. long. branches}
Ep; old calyx purplish red.
- 38859 *Arac.* ^{Stream bed}
Er herb; spathe o spadix wh.; spathe.
- ✓ 38860 *Begonia*
Drc. h. up to 40 cm; fls. wh.
- 38861 *Phytolacca rivinoides*
H ± 50 cm.; flowering rachis reddish pi; fls. light pi
- 38862 *Cibadriu*
Coarse herb up to 2.2 m; infl. wh.
- ✓ 38863 *Posoqueria* ^{Edge of Forest}
Tr. 10 m high; cor. wh.
- ✓ 38864 *Heliconia*
San Pedro, bet. Sabaletas & Agua Clara ± 50 m. ^{densely forested valley}
infl. dependent; bracts deep red; per. wh. prox, y. dist.

San Pedro (865)
Agua Clara, ± 100 m (866 sq.)

densely forested valley
dense forest

38865 Solanum

Shrub with long. ls; cor. ~~wh~~ greenish; anth. wh.

38866 Fraxinus

On log

38867 Clitadum

Shrub

38868 Moss

On tree tr.

38869 Thib.

Ep. Sh; pedicels & calyx red; young fr. y

38870 Tococa nitida

Er. S 1/2 - 2 m; pet. & anth. pi.

38871 Brom.

Ep.; sterile bracts in pairs red; per. wh.

38872 Brom.

Ep.

38873 Carludovica

Ep.; spadix deep green

38874 Arch.

Ep.; sep. ~~green~~ y-g

38875 Peperomia

Ep.

38876 Peperomia albifolia

Ep. vine; lvs. pure wh. beneath

Agua Clara, ± 100 m; dense for.

6/6/44

38877 Peperomia parvifolia

Report on T.T.

38878 Didymochlamys

H, ter. & on T.T.; bracts gr; cor. tube blue, lobes wh.

38879 Tillandsia

Ep.

38880 Thib.

~~38880~~ Ep. Sh, bracts pi; calyx pinkish wh; cor. wh.

38881 - Arac.

Spadix pinkish - y

38882 Bromel

Ep.; bracts red; bractlets y

38883 Lindaea

On T.

38884 Treefern

Caudex 2 m.; fronds 1.8 m.

38885 Arac.

Ep.

38886 "

Ep. spathe gr.; spadix deep purple.

38887 Anthurium

Ep.; spathe light gr; spadix deep gr.

38888 Psammisia

Ep. Sh; calyx red; cor. wh

Photo group.

Aqua Clara

6/6/44

✓ 38889 Fungus
On tree trunks

✓ 38890 "

"

✓ 38891 "

} all missing

38892 Hep.

On tree trunk

✓ 38893 Thib.

Ep Sh; bracts light pi; calyx whs; cor. wh. at base, ^{tinged above} blueish

✓ 38894 Jatropha saccata (sessilis)

S ± 1m; pet. i; anth. ~~fr~~ wh; fr. red

✓ 38895 Vittaria

On t

✓ 38896 Brom.

Ep.; lvs light gr or deep green - banked; bracts or

38897 Clusia

Ep. glabrous on face tree
Jat tree; pet. pi.

38898 Arac. (spadix deep green)

un - Cuati

38899 Puya

n - Cuati

Ep; fr. red in lower 1/2, deep gr. upper 1/2

✓ 38900 Nicotiana

Shrub, 2-3m.; buds greenish wh.

Aqua Clara

6/6/44

✓ 38901 Oplismenus cordatum

Ter.

✓ 38902 ~~Senecio~~ Polypodium

Reptant on tt.

✓ 38903 Hypolepis

Ter.

✓ 38904 Eschatoglossa

un - 15

Ep

38905 Philod. alatum

Vine on tree

✓ 38906 Elaph.

un. 15

Ep.

✓ 38907 Diolena pileoides

On tree to or ter; pet. wh. or pale pi.

✓ 38908 Lindsaea

On tr.

✓ 38909 Rhododaphnophyllum

Reptant on fallen tt.

✓ 38910 Lindsaea

On tr.

✓ 38911 Dryopteris

Ter

✓ 38912 " ?

Ter.

Agua Clara

✓38913 *Brigopterus*

Ter.

✓38914 " *hista*

Ter. caudex ± 15 cm. high

✓38915 *Hymenophyllum*

~~Ref.~~ Long-~~refert~~ ~~subsp.~~ to TL

✓38916 *Polypodium*

Refert on TL

38917 *Philod.*

Refert on TL; spathe deep gr.; spadix light gr.

✓38918 *Lichen Fungus*

On dry twigs

✓38919 *Polypodium*

on TL

✓38920 *Oleandra*

Ref. on TL

38921 *Costus spicatus*

Er. herb ± 1.5 m.; infl. red

✓38922 *Monolaela*

on TL; bracts light pi.

✓38923 *Thick.*

Ep. S with slender branches; bud only; fruit deep pi.

✓38924 *Nelast.*

Jael tree (?); branches on ground; too low. ~~leaf~~ bright purple ber; calyx pinkish gr.

Agua Clara

✓38925 *Pero Peperomia*

on TL

38926 *Clusia* - Ep. S.; young fr. 4-9

✓38927 *Nelast.*; refert on TL & closely appressed to TL; fr. deep pi.

38928 *Gesner.*

Ter. h.; cor. wh. or pinkish wh.

✓38929 *Fungus*

on TL; fl. purple

✓38930 *Nep.*

on TL

38931 *Ficus*

Jael tree; this portion found on ground

✓38932 *Rub.*

Er. sh. 1.5 m; cor. wh

38933 *Cyperac.*

Ter. Infl. reddish

✓38934 *Fungus*

on TL

38935 *Gonolobus*

H. V.; cor. green; corona orange (clearing)

✓38936 *Xyris*

Wet ground; per. 4; 9a mark

✓38937 *Hibiscus* Herb, 1-1.5 m; inf. lobes; pet. y.

El Forge, eastern edge of Buenaventura

6/8/44

El Forge, eastern edge of Buentan

6/8/44

✓ 38938 *Stylsanthes*

Much-branched herb; pet. y

38939 *Utricularia*

Very slender h; cor. y.

38940 *Myrt.* ?

S. up to 1 m; pet wh.

38941 *Malp. globosum*

Sm. tree, 4 m; pet y

38942 *Malp.*

Sm. t. 2.5 m, with many long br.; pet y

✓ 38943 *Dichaea*

Ep.; 5 pet. big, purple-spotted in; lip & col. y-g

✓ 38944 *Fungus*

On log; caps cream below, greenish wh; above

✓ 38945 *Alga*

On lower branches of trees

✓ 38946 *Hippocris*

W.V.; fls. green

38947 *Rumex*

Tall herb, 2 m.

38948 ?

Low herb in mud; buds wh.

✓ 38949 *Orch.*

Ep.; per. wh.

Roadside

Wet gravelly soil

Back part of

more or less
irradiated only
at high tide

El Forge

38950 *Epidendrum*

Ep. 3 seg. 4 g, 2 wh, col. lip y

✓ 38951 *Polypodium*

Ep.

✓ 38952 *Orch.*

Rep.; sign. greenish

✓ 38953 *Eleph. angustif.*

Ep.

✓ 38954 " *latif.*

Ep.

✓ 38955 *Hymen. Trichomanes elatum* Sw. det. Threlk 1977

On t. t.

38956 *Arac.*

more irradiated

Tree, 2 m; fls. wh.

38957 *Codonanthe*

Ep. in cor. pink

38958 *Cassipourea*

T, 6-7 m, fr. green

38959 *Indrostylis rhizophorae* Steetz

On horizontal trunk, no sup. at this time 2 years

38960 *Arac.*

Ep. in; infl. y g

✓ 38961 *Thib.*

Inner edge of mangrove
fruits only at high tide

Ep. 8; cor. wh; fr. tinged ~~to~~ in upper 1/2

Forge
El Forge

6/8/44

38962 *Clusia*

S ± 4m. h., along cr.

38963 *Anthurium*

Ep.; spathe pi; spadix deep pi

38964 *Carludovica biclipii* Standl.

Ep.; spadix pink, brown at base of lvs.

38965 *Heliconia*

± 10m; fl. pet. ~~pink~~ wh.; stamens pink

✓ 38966 *Citharexylum*

Tree 7m; calyx light green; fruit deep purple

38967 *Zamia*

Trunk ± 1m; spadix 30 x 8 cm. ^{deep} green.

✓ 38968 Rub. | La Cuarentena, Portun Bay, ^{Front at edge of mangles} 6/9

Er. S, 2.5m.; cor. wh.

✓ 38969 *Bauhinia*

W.V., long spreading; ^{lvs} infl. dark reddish brown ben. ^{deep gr. or} lustrous above

38970 *Bathypa*

S or sub-T, ± 3m; cor. tube gr., lobes pi; anther y-g; fr. blackish

38971 *Geon.*

W.V.; lvs. thick-cor; bracts light green;

38972 *Scleria*

Er or subscandent h. 2m or more long; infl. dark brown; lvs ^{scandent} ^{2m}

38973 *Tuberostylis rhizophorae*

Ep, repent on base of tree trunks; ^{Ph.} infl. greenish white; styles white / mangles

La Cuarentena, Portun Bay no. shore,

6/9/44

38974 *Oryctanthus*

Front at edge of mangles

Par. sh; fr. deep green; lvs. lustrous

38975 *Cassipourea*

Tr. ± 6-7m.; fr. olive green

38976 *Vismia*

Tr. ± 10m; sepals rusty-brown; lvs. lvs. rusty brown (young), whitish (old)

✓ 38977 Hep.

On t.c.

✓ 38978 *Agaphila*

W.V.; cor. wh, green-tinged

✓ 38979 Rub. | Boca de Lobo, Portun Bay, no. shore; ^{Front at edge of mangles} 6/9/44

Tr. 3.5m, branches overhanging cliff.

38980 *Tuberostylis axillaris*

5 ± 1m; ^{Ph} infl. ^{usually not reaching high tide} green

✓ 38981 *Ficus*

On lvs; caps pure wh.

38982 *Mapania*

Ter.

✓ 38983 *Cephalis*

Er. S, ± 2m; bracts deep purple.

38984 *Chusca*

J. 7-8m; pet. thick-fleshy, greenish wh.

✓ 38985 *Sobralia candida*

Er. lvs. ± 3m; stem unbranched; 5 sep. pure wh; lvs. white lined in at center with pinkish green. ^{On steep cliff.}

38986 Comp.?

W.V.

38987 Stigmaphyllon

W.V. climbing to top of high trees; samaras light gr.

38988 Baniflora auriculata

H.V.

✓ 38989 Inulast.

Tr. $\pm 8m$; fr. deep purple.

✓ 38990 Hippocr.

W.V. fls. green

38991 Myrt.

Tr. $\pm 15m$; fruit & stamens red.

38992 Ficus

Tr. $\pm 20m$; fr. dull pi.

38993 Spigelia

H.; cor. light pi, striped with deeper pink

✓ 38994 Fungus

On trunk of Mora.

38995 Mora (fruit only)

Large tree

38996 Gesn.

Ep; cor. tube greenish y, minutely pink-spotted out; lobes yellow.

✓ 38997 Guzmania

Ep. spec. greenish red.

Boca de Lobo, no. shore, Buena Ventura Bay; forest at edge of mangles. 6/9/44

Second growth woods

Buena Ventura; waste places

La Cuarentena

Boca de Lobo

from Boca
Km. 8, Carr. al mar ($\pm$ tidal forest)

✓ 38998 *Aechmea*

Ep.; bracts red; per. greenish wh.

✓ 38999 *Melast.*

J 6-7m; pet. pi.

39000 ?

Tr. 12 m. high, trunk 15 cm. diam; fruit brown; buds green

✓ 39001 *Guzmania variegata*

Ep; bracts bright red; per. y, wh. at apex

39002 *Spathiphyllum*

Ep; spadix wh.

✓ 39003 *Spherospermum*

Ep, climbing branches; cor. wh.

39004 *Clusia Tuberostylis axillaris*

S. S, with elong. br., climbing up small trees; infl. green

✓ 39005 *Hep*

On branches

39006 *(Palau) Euterpe*

Trunk 10 cm. diam, 5 m. high; sheaths red-violet, 1 m. long;
Tr. 12 m high, trunk 15 cm. diam; fruit brown; buds green

✓ 39007 *Fungus*

On log; brown above, grayish wh. below

39008 *Clusia*

Tr, ± 8 m; pet. pi.

✓ 39009 *Polypodium*

On tt

from Bant
Km. 8 of Carr. al mas.;

6/10/44

pet. 30 cm. long, rest of leaf 2 m. long; infl. 80 cm.

39010 *Struthanthus*

Par.; infl. greenish y

✓ 39011 *Peperomia*

Ep. vine; lvs. wh. ben.

✓ 39012 *Rub*

Sh. ± 3m; fr. deep red

✓ 39013 *Mikania*

H.V.; infl. (young) y-g

✓ 39014 *Sabicea*

W.V.; cor. greenish wh.

✓ 39015 *Melast.*

^{Sprout}
Sh. ± 5m; fr. pinkish purp.

✓ 39016 *Richardia*

~~Roadside~~ Cor. wh.

✓ 39017 *Chamaecrista*

Forb herb; pet. y.

✓ 39018 *Cephaelis*

^{rsut.}
Sh. up to 4m; bracts light red; cor. y; fr. blue

✓ 39019 *Columnnea*

Ep.; subac.; cor. or.; lvs red ben. in upper 1/3

✓ 39020 ~~Bomarea~~ Gesn.

Ter; cor. tube gr. wh; lobes wh.

✓ 39021 *Calathea*

Ter; old bracts reddish brown

un. - 1C

Km. 8, Carr. al Man (dense forest)

6/10/44 01000

" Roadside

"

Km. 15

- Dense forest (dryer forest)
not ideal

01000

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01000

✓39022 Hymenop.

On tt.

✓39023 Psychotria

S ± 3m; ~~fr. gr.~~ ^{deep} fr. deep gr.

39024 *Antium*

un-K

Ep.; shade gr.

39025 *Parapl.*

H.V.; buds pink

✓39026 *Cephaelis*

Small tree; cor. wh. 6-7m.

✓39027 *Fungus*

On log; fl. pink

✓39028 *Elaph.*

On tt.

✓39029 *Palicourea*

S ± 3m; fr. gr.

39030 *Antium*

Ep.

✓39031 *Lycopodium*

Vine

✓39032 *Polygodium leptolepis*

Ter.

✓39033 *Polygodium*

On tt.

1 Km. N, Car. al Mar. (dense for.)

6/10/44 22000

Bridge over Río Dagua, wooded banks of Río Dagua 22000

✓ 39034 *Asplenium*

Ep.

✓ 39035 *Piper*

S 2-2.5 m.

✓ 39036 *Grass*

39037 *Kyllinga*

39038 *Fimbristylis*

39039 *Costus*

Coarse herb ± 2 m; fls. wh.

39040 *Nelicodia*

✓ H 2-2.5 m, inf. erect; bracts ^{or 1-4 or orange-yellow throughout} y at base, red above; per. y

✓ 39041 *Phyllanthus*

Erect S, ± 1.5 m; fls. ~~pinkish~~ wh.

✓ 39042 *Adiantum*

✓ 39043 *Certhosium*

H.V.; fls. pinkish blue

39044 *Urera*

Coarse h, 1 m; fls. wh. w. stinging hairs!

39045 *Pouzolzia*

S 3-5 m; inf. greenish.

Wooded banks of Rio Dagua, near highway bridge 6/10/44

Open trail

Open bank

" "

Thickets

Nearly Thickets

"

Open bank

Thickets

39046 *Calathea*

Coarse herb; fr. orange; seeds blue

un. 11,

✓ 39047 *Asplenium*

Out.

✓ 39048 *Piper*

S 2-2.5 m.; lvs. pale beneath.

✓ 39049 *Piper*

In 5-6 m.

✓ 39050 *Audubonogon*

✓ 39051 *Burmannia*

Per. sp.

✓ 39052 *Borreria*

Sup. vine, climbing over shrubs ± 3 m.; ripe fr. deep pi.

39053 *Sporobolus pes-caprae*

Vine, rep. in sand; Cor. purp.

39054 *Cereopetalum leuco L.*

T, 8 m high, buds greenish wh.

39055 *Wedelia brasiliensis* (Spreng.) Blake

Reptant in sand; rays y

✓ 39056 *Phaseolus*

W. reptant in sand; stam. pinkish purp but purple in; keel ~~white~~ wh.

✓ 39057 *Anavalia maritima*

" " " " fl. parts purple

Bank of Rio Sagua at highway bridge 6/10/44

Thickets

Edge of small stream

Roadside

El Pailón, Est. Buena Vista Sagua, along highway

Jagoromá

Coastal thickets

Playa

wings ^{white} ~~purple~~ out, purple-striped in

39058 ~~Croton~~ *Pectis arenaria* Benth. Det. E. P. L.

LV refert in sand & closely appressed to ground; rays y

39059 *Fimbristylis*

In sand

39060 " *miliacea* (L.) Vahl

" "
39061 *Ipomoea*

Refert in sand " closely appressed to ground; cor. wh.; lvs. succulent occasionally 3-lobed!

✓ 39062 Grass.

Refert in sand (sterile)

39063 *Haesperia*

J. 4-6 m; fl. or., becoming red.

✓ 39064 Grass

Refert at base in sand; infl. purple

unlc

✓ 39065 *Dichaea*

Ep. ^{pink-spotted in} seq. 4-9; lvs. & col. deep pi.

39066 *Anthurium*

Ep.; spathe gr.; spadix or-y

✓ 39067 ~~Ep.~~ *Daph.*

Ep.

39068 *Vernonia*

Plant subsc. in tall grass; flowers & styles pi.

39069 *Cyperus ferox* L.C. Rich.

In sand

Jagaroma, Choco.
Playa

6/12/44 82008

82008

82008

82008

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82008

- ✓ 39070 *Aeschynomene*
 Er. h. up to 1.5 m., few-branched; fls. light y
- ✓ 39071 *Polypodium*
 Rep. on br. of trees
- ✓ 39072 *Plumbago*
 Ep.
- ✓ 39073 *Ficus*
 Tree ~~to 10 m~~ 5-8 m; st. wh.
- ✓ 39074 *Citharexylum*
 W.V; calyx wh, pi-tinged; cor. deep pi.
- ✓ 39075 *Erechtites hieracifolia*
 Less Er. h. 2-2.5 m; pappus wh.
- ✓ 39076 *Alchornea*
 T; infl. green.
- ✓ 39077 *Cassia*
 Tr. 10 m; fruit pi.
- ✓ 39078 *Apoc.*
 S. cor. wh.
- ✓ 39079 *Rub.*
 Tr; ripe fruit pink
- ✓ 39080 *Ficus*
 Tr 15 m.
- ✓ 39081 *Melast.*
 Ep. S; pet & fil. wh; anthers or; fr. deep pi.
 bracts pi.

Togoroma

Playa

Coastal thicket

"

"

"

"

Playa

Coastal thicket

"

"

" woods

Banks of
 Río Togoroma; dense tidal forest
 Quebrada

6/12/44

18000

18000

18000

18000

18000

18000

18000

18000

18000

6/13/44

18000

(Dumalis all written
beyond here)

39082 *Sphynospem*

Ep. with dwarfing; cor. wh.

39083 *Lindsaea*

out t.

39084 *Alaophila*

Caudex $\pm$ 1 m; fr. $\frac{1}{2}$ m.

39085 *Palen Manacaria*

Tr. ~~15 m~~ 4 m. high, 15-20 cm. diam; old inf. purple

Pl. Fruit
leaf
no. 5
2d row
no. 2?

39086 *lur.*

Small tree;
cor. greenish wh

39087 *Tetracera*

W.V; fruit deep gr.

39088 *Melast. Topobaea trianaei Cogn. Det. Gleason*

Tree tree; cor. deep pi.

39089 *Melast.*

Small tree; fl. pi.; ~~anther~~ ^{anther} greenish y

39090 *Visalia*

Tr.; fl. light y; pink-striped

39091 *Verh.*

Small tree; young inf. ~~greenish~~ greenish

39092 *Ficus*

Tr.

39093 *Nyssa*

Tr.

Banks of Quebrado Togoroma; dense tidal forest 6/13/44

39094 Eutij.

Small tr.

39095 Bignon.

W. V., high climbing; cor. bright y

39096 Melast.

Tr.; ripe fr. bright blue shining.

39097 Dicus

Tree "Higueron"

39098 Plulod.

Ep. vine; sheath deep gr.; sheath whitish

39099 Grass

Pl. 2 m. high; in water

39100 Marga.

Vine; long dependent from trees

39101 Salbergia

Tr.; fruit ^{bright} green

39102 Costus

Woody erect tr., 2.5-3 m.; br. red; pet. y

39103 Palicourea

Small tr.; branches of inflo. cymes; cor. y

39104 Tournefortia

S., with elong. br.; cor. wh.

39105 Andria

Tr.; fls. purple; fruit drupeous, green.

Banks of Chub. Tugoroma; dense tidal forest 6/13/44

39106 Melast.

Tr.; lvs. white beneath; pet. pi.

39107 *Fuqua spectabilis*

Tree; st. wh.

39108 *Flub.*

Ep. sh.; cor. red lower $\frac{2}{3}$, green up $\frac{1}{3}$; ^{tips of lobes purplish} styles greenish white.

39109 *Hep.*

On lvs of 9108

39110 *Flub.*

Ep. S.; calyx red; cor. light gr., deep gr. & y, from base to tip.

39111 *Perid.*

Ep. Vine; spathe gr.; spadix wh.

39112 *Amphidasya*

Sup. l., $\pm$ 50 cm; calyx green, lobes lighter gr. to wh.

39113 *Cephaelis*

Sh.; calyx longest, striped, light & dark green; ^{cor. yellow} fr. purple

39114 *Siparuna*

S. $\frac{1}{2}$ 3-4 m; fr. reddish brown; fls. y. g.

39115 *Picramnia*

Low erect herb.

39116 *Rub.*

~~herb.~~ Sh.; cor. wh.

39117 *Gesn.*

Ep. vine; fr. wh., pink-tinted; cor. tube pi, lobes wh

Bambo of blue. Fogoronia, dense tidal forest 6/13/44

non-mund. per.

Dense tidal forest

39118 Afoc.

Vine; fls. bright y; fr. green

39119 Piper

S 3-4 m;

39120 Epid. noct.

Ep.; i seq. y; lth o col. wh.

39121 Melast.

Ep. S. ^{calyp} light gr.; pet. o st. wh.

39122 Bignon.

W. V.; cor. wh.; fr. ^{+ 35 cm} l.

39123 Aphelandra

S 1 m; bracts o cor. r.

39124 Piper

Vine; spikes purplish purple

39125 Carludovica

Ep. ♂ wh; fr. ^{dark} green

39126 ~~P.~~ Zygia

~~Tree~~, tall tree; stem, fr., becoming reddish

39127 Leg. Swartzia

Tree

39128 Hep.

On base of palm

39129 ~~Cere~~ Cerozamia

Tree.

Banks of thub. Fogoroma

6/13/44
Semi tidal forest

39130 *Hirtella*

Tr.; pet. wh.; st. pi.

39131 *Pavonia*

Sr. sm. t.; pet. wh. or pinkish wh. or greenish wh.

39132 *Orech.*

Ep.; per. wh.

39133 *Heliconia*

Pl. 3 m. high; bracts dull red; per. greenish y

39134 *Enallagma*

Fr. sm. t.; cor. tube wh.; lobes light green; fr. apherical, 6 cm. diam. (separate)

39135 *Aechmea*

Ep.; bracts pinkish red; young bractlets light gr.

39136 *Melast.*

Sm. t.; young fr. gr.

39137 *Melast. Couratgia*

Sm. t. fls. wh.

39138 *Kiproc.*

W.V; very young inf. greenish wh.

39139 *Chasia*

Tree pet. & pi.

39140 *Peperomia*

Repent on tree

39141 *Cassipourea*

Tr.; & calyx & fr. green

Baules of shrub. *Togomora*

6/14/44
sens. triles for

39142 *Melast. quadrangulatus*

Tr.; calyx greenish brown; pet. bright pi, fleshy

39143 *Tuberostylis*

Subsc. Sh.; lvs. coriaceous; bracts grass green

39144 *Borreria*

Shrub, often in water, much branched 1-2 m; cor. tube greenish wh., lobes white

39145 *Thib.*

Ep. S; calyx pinkish wh, shining; cor. deeper pink, with white hairs.

39146 *Souroubea*

Serp. vine; fls. greenish wh., also younger pedicels; pedicels becoming orange-brown as does the rachis

39147 *Melast.*

S; inf. erect; fr. or., 4 mm. diam.

lvs 30 x 18 cm.

39148 *Schefflera*

S; fr. pinkish red, 5 mm. diam.

39149 *Pachira aquatica* "sapotolongo"

Large tree; stamens white below, red above; fr. 25 cm. diam.

39150 *Rub.*

Sm. tree or Sh; cor. purple. Very common close to stream

39151 *Cephaelis*

lm - 11

Small tree; cor. wh.

39152 *Euph. ?*

Tr. ± 10 m; fr. green

39153 *Ardisia*

Small tree, 2-3 m high; pet. wh, pinkish striped

Banks of Queb. Jogomora; demetidal forest 6/14/44

39154 Cordia

Small tree?

39155 Sapot.

Tr. 10m; fr. obovate, greenish y, 3 cm. diam., 2-seeded

39156 Piper

S; lvs. dark green & lustrous above, paler beneath

39157 Tovonita

Tr.

39158 Mikania

W.V.; young infl. green

39159 Margarita

W.V., dependent, the infl. erect; "sac" greenish wh, purplish toward base; underneath red

39160 Avicennia

Tr.; cor. wh.

39161 ~~Calceolaria~~ Peperomia

Small tree, ~~erect~~ ^{erect} along city streets; lvs. white beneath

39162 Melast.

Erect. sh.

39163 Moss

Orn t

39164 Piper

S ± 1.5m

39165 Clusia

Tall tree

Banks of thub. Jogomora; dense tidal forest 6/13/44

6/6/44
~~Calceolaria~~ Agave Clara, ± 100m; dense for. 6/13/44

" " 6/13/44
" " 6/13/44

El Forge, clearing 6/8/44

Km. 8; dense for. 6/10/44

- 39166 *Anthurium*
Ep; fr. ^{bright} red.
- 39167 *Anthurium*
Ep.
- 39168 *Anthurium*
Rep. outt
- 39169 Hep.
On leaves of 39110
- 39170 Orchid
Ep.; per. rich deep pi.
- 39171 *Calangium odoratissimum* (*Cananga odorata*)
Small tree, grown along city streets
- 39172 *Plebeum caliense* Hieron. Det. E. P. Killip
Suff. herb 1-1.5m; fls. bright y
- 39173 Fungus
On trunk of *Cerogon*
- 39174 Lichen
" " "
- 39175 *Crotylon*
Shrub, ± 40 cm. at base; pet ± 1.5 m; fruit 3 m.
- 39176 *Pavonia*
S herb, ± 1 m; pet. bright y
- 39177 *Astrephia chaerophyllodes* (Jesum.) DC.
Lax herb, with elong. br.; cor. wh.

Km. 8, Putura Highway; dense for. 6/10/44

"

"

Banks of Queb. Jagoroua; dense tidal forest 6/13/44

Cineros (purchased at train ^{but} common in the forest) 6/15/44

Cali, 1000m.

Carr. at Mar, Km. ¹² ~~14~~ 1400m. Roadside banks 6/22/44

" " " 15, 1760m

Cleaning

" " Mares, 1890m. Thuduts

39178 *Ladenbergia*
Tree 8 m.; 10 cm. diam.

39179 *Piper*

Tree, $\pm$ 4-5 m;

39180 *Phenax*

Sup. herb $\pm$ 60-80 cm.

39181 *Phyllanthus ruscifolius*

W.V.; fls. greenish

39182 *Struthanthus*

Par. shrub; fls. greenish; fr. pi.

39183 *Hep.*

On lvs. of 39182

39184 *Marchantia*

On bank.

39185 *Fraxinus*

On bank (with *Marchantia*)

39186 *Cuphea*

Herb; petals lilac

39187 *Solanum*

St 2 m, elong. ls; cor. wh.; anthers cream

39188 *Solanum*

St 2 m " " " " " "

39189 *Palicourea*

Tr. 3-4 m; cor. wh.

1880 Forest
Carr. al Mar, Manos, 1880 m; ~~thick~~

6/22/

Edge of forest

Forest

39190 *Palicourea*

S 2-3 m. branches infl. deep bristly; cor blue at base shading

39191 *Eutropogon*

S ± 1.5 m; fl. cor. bright red.

39192 *Liatris hastatifolia* P. & E. Det. E. F. Miller

Sub. h. ± 1 m; fl. y.

39193 *Lantana Bonariensis*

H V sep. red out, slightly y. in; pet. with y claw, & base of

39194 *Miconia theaezans*

S or m. t., ± 3 m high; pet. wh.

39195 *Cordia acuta*

Tree ± 4 m; cor. greenish wh; lvs. mostly serrate

39196 *Moulinia*

Tr. 4-5 m; rays wh; florets greenish

39197 *Eupatorium*

E. h. ± 80 cm; florets bright pi

39198 *Cordia*

S 50-80 cm.; cor. wh.

39199 *Cuphea*

H., pet. lilac; calyx green, with purple tips

39200 *Stylosanthes*

H; pet y

39201 *Apeim annu*

Slender herb; pet. wh

Can. al. h. 1880 m.; forest 6/22/48
to green & pink

blades y, apex red; relatively few purple spots in, but not
Edge of form ~~1850~~ 1800 m. ^{at apex}

" " 1710 m.

Clearing

Las Neves 1700 m.; clearing

In grassland

39202 Wedelia

~~Spl.~~ Herb; rays bright y; florets deeper y.

39203 Lantana Solanum

V; cor. wh; anthers y

39204 Lantana

H; cor. light p; fruit deep pink

39205 Piper

S ~~2-3~~ 1.5-2.5 m.

39206 Liabum nigropilosum Hieron. Det. R. P. Killip

Subsc. shrub; rays y; florets dark y

39207 Verbena

up to 1 m.
H; cor. fimbria blue

39208 Moussina

S 1-2 m; sepals purple; pet. y

39209 Parnassia

Pl. 2 m. high

39210 Rynchospora

Pl. 2 m. high

39211 Saurauja

Tr. 4-5 m; fruit wh.

39212 Galeandra beyrichii

S ~~seq.~~ light green; lvs wh; purple-lined in at apex. Terrestrial

39213 Heiacium

= 38582a

Las Nieves, 1700 m.; clearing

6/22/44

~~Forest~~
↓

Clearing

Edge of forest

Clearing

~~For.~~

± 1.80 m.

~~Spl. marsh~~, Par. de Puracé, 3500 m.
Spl. marsh,

5/26

Wrote Cusco about there

39214 Orch.

Ep. = 38667a, Estero de Bodegas 6/2/44

39215 Philodendron

= 38669a " " "

39216 Asclep.

Herb. vine 38763a Colorada (forest) 6/3/44

39217 Moss

on 38758 Sabaleta (dense forest) 6/4/44

39218 Gesn.

= 38785a Ep. " " "

39219 Eleocharis

"El Forge," near Highway bridge 6/8/44

= 38936a

39220 Hep.

Quib. Foguera, 6/10/44

or 39082 (Sphynopseum)

39221 Hep.

" " "

On 39010 (Thibaudia)

39222 Arag.

" "

Ep. = 39111a

39223 Hep.

" " "

Gu. Chusia = 39139a

39224 Dichromena

Highway Bridge at Km 20 6/10/44

with 39036

39225

TABLA DE MULTIPLICAR

1 X 1 = 1	2 X 1 = 2	3 X 1 = 3	4 X 1 = 4	5 X 1 = 5
1 X 2 = 2	2 X 2 = 4	3 X 2 = 6	4 X 2 = 8	5 X 2 = 10
1 X 3 = 3	2 X 3 = 6	3 X 3 = 9	4 X 3 = 12	5 X 3 = 15
1 X 4 = 4	2 X 4 = 8	3 X 4 = 12	4 X 4 = 16	5 X 4 = 20
1 X 5 = 5	2 X 5 = 10	3 X 5 = 15	4 X 5 = 20	5 X 5 = 25
1 X 6 = 6	2 X 6 = 12	3 X 6 = 18	4 X 6 = 24	5 X 6 = 30
1 X 7 = 7	2 X 7 = 14	3 X 7 = 21	4 X 7 = 28	5 X 7 = 35
1 X 8 = 8	2 X 8 = 16	3 X 8 = 24	4 X 8 = 32	5 X 8 = 40
1 X 9 = 9	2 X 9 = 18	3 X 9 = 27	4 X 9 = 36	5 X 9 = 45

6 X 1 = 6	7 X 1 = 7	8 X 1 = 8	9 X 1 = 9	10 X 1 = 10
6 X 2 = 12	7 X 2 = 14	8 X 2 = 16	9 X 2 = 18	10 X 2 = 20
6 X 3 = 18	7 X 3 = 21	8 X 3 = 24	9 X 3 = 27	10 X 3 = 30
6 X 4 = 24	7 X 4 = 28	8 X 4 = 32	9 X 4 = 36	10 X 4 = 40
6 X 5 = 30	7 X 5 = 35	8 X 5 = 40	9 X 5 = 45	10 X 5 = 50
6 X 6 = 36	7 X 6 = 42	8 X 6 = 48	9 X 6 = 54	10 X 6 = 60
6 X 7 = 42	7 X 7 = 49	8 X 7 = 56	9 X 7 = 63	10 X 7 = 70
6 X 8 = 48	7 X 8 = 56	8 X 8 = 64	9 X 8 = 72	10 X 8 = 80
6 X 9 = 54	7 X 9 = 63	8 X 9 = 72	9 X 9 = 81	10 X 9 = 90

EQUIVALENCIA DE PESOS Y MEDIDAS

LONGITUD

CM.	-	0.3935982	PULGADAS	PULGADA	-	2.54	CM.
METRO	-	39.36082	PULGADAS	PIE	-	30.48	CM.
METRO	-	3.28081	PIES	YARDA	-	91.44	CM.
KM.	-	0.62137	MILLAS	MILLA	-	1.60934	M.

SUPERFICIE

CM2	-	0.1550	PULG. CUADS	PULG. CUADR.	-	6.452	CM2
M2	-	10.764	PIES CUADRADOS	PIE CUADRADO	-	0.0929	M2
M2	-	1.196	YARDAS CUADS	YARDA CUADR.	-	0.8361	M2
HECTAREA	-	2.47	ACRES	ACRE	-	0.4047	HECTAREA
KM2	-	0.386	MILLAS CUADS	MILLA CUADR.	-	2.59	KM2

VOLUMEN

CM3	-	0.06102	PULGADAS CUBICAS	PULGADA CUBICA	-	16.39	CM3
M3	-	35.31	PIES CUBICOS	PIE CUBICO	-	0.0253	M3
M3	-	1.35	YARDAS CUBICAS	YARDA CUBICA	-	0.765	M3

CAPACIDAD

LITRO	-	61.023	PULG. CUBICAS	PIE CUBICO	-	28.317	LITROS
LITRO	-	0.3531	PIE CUBICO	PULG. CUBICA	-	16.387	CM3
METRO CUB.	-	264.17	GALONES AMER.	GALON AMER.	-	3.78539	LITROS
METRO CUB.	-	35.3165	PIES CUBICOS				
GALON AMERICANO	-	231	PULG. CUB.	-	0.8333	GALON IMPER. ING	
GALON IMPERIAL INGLES	-	277.247	PULGADAS CUBICAS				
GALON IMPERIAL INGLES	-	1.20082	GALON AMERICANO				

PESO

GRAMO	-	15.432	GRANOS	ONZA	-	28.35	GRMS.
GRAMO	-	0.03527	ONZ.	LIBRA	-	453.6	GRMS.
KILOGRAMO	-	2.2046	LBS.	TONELADA 2.000 LBS.	-	907.18	KS.
TONELADA METRIC.	-	2204.6	LBS.	TONELADA 2.240 LBS.	-	1.0161	Kg.

GRAMO	-	0.0648	GRAMOS				
ONZA TROY	-	480	GRAMOS				
ONZA AVOIRDUPOIS	-	437.5	GRAMOS				
ONZA FLUIDA	-	29.6	CENTILITRO				