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#### *About the Institute*

The Hunt Institute for Botanical Documentation, a research division of Carnegie Mellon University, specializes in the history of botany and all aspects of plant science and serves the international scientific community through research and documentation. To this end, the Institute acquires and maintains authoritative collections of books, plant images, manuscripts, portraits and data files, and provides publications and other modes of information service. The Institute meets the reference needs of botanists, biologists, historians, conservationists, librarians, bibliographers and the public at large, especially those concerned with any aspect of the North American flora.

Hunt Institute was dedicated in 1961 as the Rachel McMasters Miller Hunt Botanical Library, an international center for bibliographical research and service in the interests of botany and horticulture, as well as a center for the study of all aspects of the history of the plant sciences. By 1971 the Library's activities had so diversified that the name was changed to Hunt Institute for Botanical Documentation. Growth in collections and research projects led to the establishment of four programmatic departments: Archives, Art, Bibliography and the Library.

SOUTHERN MAID



Spiral Bound  
Stenographer's Note Book



URNS EASILY — STANDS ALONE

STENOGRAPHER

From \_\_\_\_\_ 194\_\_\_\_\_

To \_\_\_\_\_ 194\_\_\_\_\_

NO. H. G. 606

SOUTHERN INDUSTRIES COMPANY, JACKSONVILLE, FLORIDA

*W. A. Rogers*

*Collection Book*

1-7 = *Stellaria sylvestris* <sup>ssp. *stylotica*</sup> ~~Gardner~~  
underneath of *integrovaria*.

- #1 - Fla 19 - 1/2 between Aster Park +  
Eustis. High pine, Apr. 2, 1950
- 2 - Rock Springs, 6 mi N. Apopka, Orange  
Co. Fla. Dry higher pine land, Norfolk  
fine sand, Apr. 3, 1950
- 3 - 2 mi S. Conway Highway 15 Fla.  
5 mi SE Orlando. habit as in 2.  
4/3/50
- 4 - 5 mi S <sup>Osceola Co.</sup> Kussner on Hw. 17. 4/3/50
- 5 - Just outside of Highland Hammock St. Park,  
Sebring, Highlands Co. 4/3/50  
w/ pines + palmetts.
- 6 - 1/2 mi E. of city limits of Sebring,  
Highlands Co., Fla. 4/4/50.  
In sandy flats, cleared field,  
palmettos, *Selaginella*, stems  
very red, some decumbent, others  
erect. Much more open country  
than usual habit.
- 7 - 2-3 mi S. Sebring, US 27 - plants  
growing near (200 yds) flat woods  
pond. 4/4/50

8 - Hwy 29 (Fla) on edge of cypress swamp  
plants to 5 ft. tall. Hendry Co, between  
La Belle + Immokalee. 16 mi. no. of Immokalee

9. Hwy #8 - 8 mi. S. of #8. 4/5/50  
7/15/50  
10. 3 mi. SE of Naples, Collier Co. Cypress  
US 41 swamps. Infl. + upper leaves dark

red on some plants, yellow on others.

11. US 41, 5 mi. W. Collier Co. line.

Infl. yellow. ditto local. 10.

12. Fla 27, 10 mi. n. of Homestead, growing  
on rock (line) outcrop, plants to 15" tall.

4/1/50

13. US 1, near Homestead, ditto local #12.

flc yellow + red.

14. 15 mi. SW Lake Worth - plants w/ aquatic  
roots in edge of Cypress swamp; plants  
w/ sylvatica roots 100 yds from edge  
of cypress swamp, assoc w/ palmetto  
& pines.

15. 1 mi. S. Stuart, Fla., along sand  
ridge, and sloping into small  
pond 1-200 yds distant -

16. Aristolochia tomentosa Sims.

Franklin Co., Missouri, Meramec River,  
4 mi. SW of Pacific, in + over thick  
vegetation <sup>of river</sup> Fls. yellow w/ fine brown  
spots. Vine 30-40 ft. tall.

June 16, 1951

17. Crawford Co.  
Crawford Co., Pa. Bousson, ~~Pa.~~

7 mi. SE of Meadville, deep woods

Fls. blue.

8/4/51

18. Ditto local 17

8/4/51

19. Spiranthes

Ditto loc. 17. Fls. lavender. 8/4/51

20.

Locs 17. 8/4/51

21.

" " " Fls. white

8/4/51

22. Ditto loc 17 8/4/51

23. Edge of open fields, usually in  
clones,  
clones, near shade, 3-5 ft tall,  
fls white. 8/4/51

Ditto  
loc  
17

24. Ditto loc. 17 - open fields,  
from 6 - 24 - 32 inches tall. fls.  
light purple. 8/4/51

25. *Valerianaceae*

Alden St. Ext.

5 mi. E. of Meadville, Crawford Co., Pa.  
Open meadow, fls. purple Aug. 9, 1951  
Plants to 4' tall.

26 *Ranunculus*

Ditto loc. 25

Plants semi erect, fls. yellow. 8/9/51

27. *Impatiens*

Ditto loc. 25

Impatiens' head, waxy, hemlock.

Changes fls. bright yellow, w/ red spots  
in heart. Petals of red on margins.  
Stems quite succulent. Leaves bright green.

28

Ditto loc. 25.

Forest openings, moist ground - fls. crimson  
Plants to 5' tall.

29.

with #28.

fls. blue

30.

with 28

fls. white,

31.

fls. yellow.

with 28

32.

fls. light yellow

with 28

33

*Rudbeckia laciniata* L.?  
rays yellow, fls. to 6' tall.

with 28.

34. *Mimulus ringens* L.

in wet meadow, fls. lavender

ditto loc. 25

35

*Viola grandiflora*?

deep woods.

ditto loc. 25

36 *Epilobium angustifolium* L.4 mi. N. Meadville, Hwy 198  
between Saegertown & Johnston  
House, roadside, under pines,  
open, dry. Fls. lavender, Aug. 11, 1951

37

*Tsuga canadensis* (L.) Carr.

Woodcock Creek, Crawford County,

5 mi N. of Meadville, Pa. Moist

stream banks.

Aug. 16, 1951

38. Legume

Like 37 - stands light purple

39.

*Rosa*? or *Saxifraga*?

40. Sagittaria?  
 fl. white 9 lid 37
- 41 Grass  
 9 lid 37
- 42 - Sedge  
 9 lid 37
- 43 Sedge  
 9 lid 37
- 44 Linum?  
 fl. yellow 9 lid 37
- 45 Polygonum?  
 fl. white 9 lid 37
- 46 Nyctaginia  
 fl. yellow 9 lid 37.
- 47 Compositae  
 fl. yellow 9 lid 37
- 48 Salvia?  
 9 lid 17 - fl. scarlet.
- 49 - Compositae  
 9 lid 37 - fl. yellow
- 30 Eperganium  
 9 lid 37

7 mi SE of Meadville  
Crawford Co., Pa.

51 *Polygala sanguinea* L? Bousson. Open  
field, fls. rose purple, bracts whitish as  
the base - Sept. 3, 1951

52 *Epifagus virginiana* (L) Bart. Bousson loc.  
9 bid 51 - Deep woods, 9 infl. + fls. brown-  
red on leaf mold. 9/3/51

53 loc. i bid 51.

Edge of open fields, shaded by overgrowth  
of small shrubs + trees, Rays of 1+2 red,  
of 3, yellow. 9/9/51

54 *Amelanchier* sp?

Forest land - Oak-Hickory - Catostem Shell  
St. Res. Area, 15 mi E of Hagerstown,  
Md. Apr. 5, 1952 - Stamens + sepals red-  
tree about 20' tall.

55. *Primulaceae*?

Bousson Prop., 7 mi SE Meadville, Pa,  
Crawford Co., in deciduous forest  
of Beech, Maple, Hemlock, in  
moist swampy area. Sepals  
pale pink, stamens orange.

May 23, 1957

56. Composit. *Elephantopus scaber*  
North Carolina, Cape Hatteras, in woods  
just back of front dunes.

Aug. 20, 1959

57. Polypod. *Asplenium platyneuron*  
Ditto # 56.

RECORD

Mar. 16, '70 - Salt R. Canyon, Arizona  
Rim side - Steep side Agave, Fourcroya, etc.  
#1 - Geranium - fls. magenta, from a  
basal rosette. Loose gravelly sand

#2 - Lupine - fls. br. blue. infl. ca 6" long.  
Loose gravelly sand

#3 - Tubiflorae? - fls. bl. - single pl.

#4 - Legume - Sprawling pl. fls. yellow,  
base of st. reddish.

#5 - Allium - fls. blue

#6 - Rumex - near river - S. R. Canyon  
fls. reddish - plants 2-3' tall.

Hwy <sup>US 60</sup> - rocky chffs w. of Globe -

#7 - Scrophulariac - fls. Bright red,  
plants 2-3' tall ± sprawling.  
Perennial base? Lvs. somewhat  
succulent -

Mar. 17. Soldiers Canyon - Molina Basin  
El. v. ca. 4300 to 3300.  
cont. next page

#8 - Borag? Fls. white, Lt. sandy soil  
No pickled spec.

#9 - *Oenothera*, fls. white, <sup>became purple</sup> large, deep  
succulent, fully globular in habit -  
Basal leaf stalk red -  
No pickled spec.

#10 - Malvaceae - fls. bright orange,  
frequent weed - erect -  
pickled spec.

#11 - Legume, fls. purple, bracts  
greyish - low shrub  
pickled spec.

#12 - Valerian. fls. magenta  
pickled spec.

#13 - *Hydrocotyle*? - fls. white,  
low herb, moist stream banks  
pickled spec.

#14 - Scroph. *Pentstemon*? fls.  
pink - moist stream beds,  
sandy - No dried spec.

#15 - *Fraxinus*? Small tree,  
in stream bed. No dried spec.

#16 - *Phacelia*? - fls. purple -  
No dried spec.

#17 - *Anemone* -  
No dried spec.

#18. \_\_\_\_\_? fls. white, low,  
straggling shrub  
No dried spec.

Eriogo.  
19. *Madroño* - shrubby sp. fls. pink  
No dried spec.

20 - Rubiac - Bodstraw - moist stream  
banks - No dried spec.

21 - Rosac - *Asocion* - very low,  
sprawling shrub - fls. pink.  
No dried spec.

22. *Arabi* sp. ? *Arabi* della ?  
fl. white -  
No dried spec.

23 - fl. white - no dried spec.

May 3-1970, BOULDER, Colo.  
NEAR, Bear Creek Canyon

24 - *Mehonia* - Fls. yellow-  
ground-level, procumbent.

25 - *Caryophyll* - fls. white.

26 - *Mertensia* - fls. blue-

27 - *Prunus americana* - fls. white

28 - *Claytonia* - fls. pink

29. *Dalphinium*? fls. deep purple

30. *Umbellifer* -  
fls. yellow

May 6 - Boulder  
vacant lot behind Parking lot for Armory, Campus

31. *Fragaria*

May 2. Boulder  
Hwy 36, N. of Banker -

Road side banks - open gravelly soil

32 - *Crucifer* - Fls. yellow

33 - *Legum.* - *Astragal.*? or *Oxytropis*  
Fls. white - rd-side

May 11 - Boulder - Pkwy. behind armory

34. *Malus*

35 - *Lonicera* - CU campus

May 25 - Boulder - Campus

36 - *Asclepias* sp? fls. white to  
cream, with red on "staminal"

May 29 - Boulder - off east Arapahoe,

37. just east of power plant, on E. side of hill.

roadside - pl. about 1' tall, from  
<sup>7000 ft</sup> *Asclepias* sp? fls. yellow white, fade  
to red when older. Svs. glaucous green

38. *Astragalus* sp - in fruit

S. of Boulder - Plainview, off  
Cool Creek Canyon rd.

39. *Ribes* - Shrub

40 - *Caryophyll* - fls. wh.

41 - *Pentstemon* - fls. Deep Bl - Purple

42 - *Potentilla* - " yellow

43

Clematis - fls. deep blue

4.7  
6.4

44 Iris missouriensis - fls. purple

June 1st - Blvd Co. Rt # 80

2.3 mi off of main rt from Lyons to Estes Park  
west facing steep slope above river.

45 Penstemon? fls. purple

46 Sedge

47 - Junco fls. yellow

48 - Sedge

49 - Boraginaceae, fls. white.

50 - Liliaceae - Red Squill? - fls. wh., Anthogone

51 - Juncus

52 - Mentzelia aff. fls. blue

53 - Tradescantia - fls. "

54 - Geranium - fls. pink

55 - Oenothera - fls. white, fading pink

56 - Boraginaceae - fls. white

57 - Rosaceae - shrub 1-3', fls. white.

June 5 - 1 mi W. of Rollinsville,  
Col. -

58 - Salix - shrubby, 6-8' tall

59 - Fragaria

60 - Rosa Hips

Digitized by the Hunt Institute

June 6

Franktown #1.87

Franktown

#61 Polygonum fronds pinkish  
silver side veins

#62 Silene - flowers white

#63 <sup>Indian</sup> Paint Brush - orange red

Culo. #186 ? Franktown

64 Quercus - shrub

June 7

Rd. to me. alt. above Saline  
Boulder Co.#65 Pasque fl. stamens  
bracts yellow, sepals purple  
outside - lighter inside

66 - fls. white

67 Arctostaphylos - fl. pink

June 8 - Field on Chambers Dr., Boulder.

68 - Oenothera - low shrub, fls. white.  
photo69 - Penstemon - fls. magenta to  
purple - inflorescence one-sided.  
photo

70 - Echinocactus viridens. fls. yellow

Botanical Documentation

71. Gramineae - plants 8-10" tall,  
growing in tufts or bunches - photo

June 9, 1970 - Boulder, Vacant lot  
behind driveway, campus -

72. \_\_\_\_\_ - fls intense magenta -  
shy-blue - herbs 2-3' tall.  
Lvs. simple, alt., sessile, hairy,  
entire -

June 12, 1970 - Jackson Lake Reservoir,  
near Goodrich, Colo., off Hwy  
Colo. St. 114, about 15 mi. NW of  
Ft. Morgan,  
Soils sandy, open field -

73. *Cleome*? - fls. lt. purple  
to magenta, herb, 1-1.5' ft.

74. \_\_\_\_\_ fls. white, low,  
spreading herb -

75. *Yucca* - fls. white - dry hills  
above S. Platt R., S. of  
Goodrich, Colo. Hwy 39.

76. *Penstemon* - fls. white.  
Local = 75.

77. \_\_\_\_\_ fls. purple-white -  
Vine-herb. Ditto local = 75.

78. *Amorpha*-legum - Shrub 2-4'  
tall, in clumps, river bottom,  
S. Platt - fls. dark purple,  
stamens bright orange -  
Frequent.

79. *Delphinium*? - fls. white.  
Dry hillside above S. Platt.

80. \_\_\_\_\_ fls. yellow  
low perennial herb  
Dry sandy hillside above S. Platt.

June 18, 1970 - Vacant lot, S. Boulder  
B'way at Chambers St.

81. *Circium-arsense* -  
fls. lt. purple.

82. *Argemone mexicana* - Papaveraceae  
fls. wh., st. yellow - yellow juice

83. *Gai Herbig* - Comp  
Ray yellow, disc orange-red

84. *Ascyrum androsaemifolium*  
Fls. pinkish - milky sap

June 19, 1970 - Campus, CO.

85. *Catalpa bignonioides* - Bignoniac.  
Fls. wh. tree 40'

June 21, 1970 - Goulder, Colo.  
Brenero

mileage: 21188

308 Turned: 8:15 am 3:30

188 arrived: 10:05

740 Visitor Center 21253

21328

June 23, 1970 - White R. Natl Forest  
15-20 mi N of Rifle, Colo

86. Orchid - parasite,  
Fls. yellow.

July 3

Jeep trail, N. of Rollins Pass - Road,  
w. of Rollinsville -

87. *Dodecatheon* - fls purple, base of  
white base of stamens yellow.  
Open mt. meadow moist  
elev 8500-9000, spruce-fir  
forest. Picked spec.

88. Low shrub, fls. white, decumbent.  
9500 ft  
No picked spec.

89. *Phacelia*? - fls blue.  
near stream.

7/10/70 - Boulder - E Campus.

90. *Tilia* spp - cult.

7/11/70 - Boulder - 1554 Chambers

91 - *Asclepias* - waste field, fls  
fragrant.

7/15/70 - Mesa s. of Boulder -

92 - *Polygala*? - fls. magenta

93 - *Hypericum* - fls. yellow

94 - *Typha* -

July 16/70

Field experiences  
near 10.98 Junction

ca. 2 mi W. of E/for a  
27 mi. W of Boulder RT 54 miles  
9,000 ft.

- 95 - Saxifrage? - fls. cream
- 96 - Liliaceae - flowers to anthers  
fls. white
- 97 - Calochortus - fls. white with  
intense purple ring.
- 98 - Sedum - fls. yellow rocky ground
- 99 - Galium - fls. white, moist stream  
banks.

July 18/70

Boulder Canyon - 5 mi from  
Boulder -  
100 Morayda - flower  
magenta herbaceous perennial  
101 Specimen lost.

102 - Barker Dam  
photo taken

103 - Gentian - fls. dull purple  
or light greenish white.  
Brainard Lake.

July 24, 1970 - Caribou, 10,000' to  
11,000' elevation.

- 104 - Delphinium - fls. deep blue -  
open area, near tree line.
- 105 - Polygones - fls.  
white - boggy meadow - 10,000'
- 106 - "Red elephant" - fls.  
reddish purple - stream banks,  
moist area 10,500 - 11,000'

Aug. 2, 1970 - Coal Creek Camp  
Rd (Highway 92) ca 2 mi W. of  
junction Hwy/Colo. 93, above  
stream banks

107. \_\_\_\_\_, vine, fls. white.

Sept. 6 - 155A Cheaters. Vascular  
lit -

108 - Lithospermum? - Perennial  
herb - in fruit - 2 ft tall in  
pasture. Fruits white.

RECORD

David J Rogers

If found, please return  
to the nearest of the following  
addresses, to receive a reward.

1. Director of Agriculture  
Hope Gardens <sup>Hogony</sup>  
Kingston, Jamaica
2. Allegheny College  
Meadville, Pa.
3. Inter-American Institute of  
Agricultural Sciences  
Turrialba, Costa Rica.

Carr Robbin Demercado

67431 - Dept. of Ag  
5 - 54%

Heizer

Calle 5 + Avenida 7  
or Pension Canada

Tobby Abbot  
IDC - Folkes - Mggs

San Miller Pastors know Off  
Beverly Place

R.C. Bridges - Market Admin<sup>str.</sup>  
Kingston

① Record of activities on trip  
to Jamaica + Costa Rica, June -  
September, 1953

Vol 13621

Maps

Sr. Agr. in Ch. Agron. Div.  
J.H. Haughton

June 15 Departed Miami International Airport  
7:05 A.M. via "Avanca".  
Arrived Kingston, Jamaica 10:00 A.M.  
Passed customs, went to Tourist  
Bureau for hotel. Directed  
to <sup>the</sup> Marlwell, 60 Hope Road.  
Settled in expensive bungalow  
by noon.

Called Dept. Ag. in Hope Garden,  
Stewart contacted Mr. Stewart, Dir. of Res.  
+ made provisions for conference  
with the chief agronomist  
tomorrow A.M. - seems cooperative,  
but not sure of success of project  
here due to importation difficulties.  
Cornie + children well, but not  
happy w/ situation. Deep feelings  
about color line which disturbs.  
Can't use public transportation - no  
other means which isn't too expensive.

Had nice chat with Marjorie  
+ John Cobban, Eng. representative  
of drug firm - spent whole  
evening with them.

June 16 Met Mr. Stewart, then intro.  
to S.A.O. Agron. Div. J.H. Haughton  
Disc. plans for agronomy  
decision on plot following

a year for growth. Extension agents will send in local varieties to plot for us. Will have a plot at either Bodles or Grove Place in one of the parishes west of Kingston. That is to be decided after an inspection trip Wednesday, with Houghton. Travel will be one of the major difficulties to overcome. It seems slow in starting but do not wish to rush in this climate.

Spent a little time in Hope Gardens - a very good garden.

Had bad headache afternoon, so slept 2 hrs. Evening quiet, reading. Made trip to Bodles Expt. Sta, directed by Mr. Clark, examined about 5 varieties left there, inspected a plot for growth of plants. Land not most suitable for Manihot since a very plastic, red, marine clay, pH about 7.2.

Thence to Grove Place, near Mandeville, the Expt. Sta. Director is Mr. Powell. Found a more suitable location for plants, but note is rather far

June 17

from Kingston. May have to  
move headquarters to Mandeville  
in order to be in the heart of  
the cassava growing districts.

Altogether a pleasant trip  
returning to Kingston about  
9:00 P.M.

June 18

- Rented a car - \$40.00 for a week.  
Joe summed expenses, this place.  
Made nice trip (about 40 miles RT)  
to Newcastle in the hills behind  
Kingston. The scenery toward  
Kingston was outstanding - the  
hillsides, most of which are at  
45° angle, are all populated,  
+ cultivation occurs at unbelievably  
steep sides. Most raise bananas,  
but the chief source of income  
seems to be cattle. All along  
the road were people carrying  
bundles of grass for cattle  
food. The attitude of the  
country people seems easier  
and healthier than their  
city cousins. The area  
is characterized by second-  
growth shrubs + small  
trees.

is used -  
for  
mudring  
also.

4

June 19 - Made trip to Orange River  
Expt Sta - S.A.O. - Ward, Mr.  
Benjamin (Adel.) several  
corking, pleasant. Collected  
5 varieties they have there.  
Aside from its inaccessibility,  
would rather work there than  
either 2 stations.

Then to Port Moresby on  
North Coast. Children enjoyed  
swimming in pool of Castle Gordon  
Hotel. Beautiful country, the  
road following a river gorge  
thru coconut & banana  
plantings on steep hillside.

June 20 Spent day at Bodels, working  
with the varieties there - only  
differences which hold are the  
persistent stipules of the vars.  
which had bluish or purplish  
young foliage - evening spent  
with Cobbeaus -

June 21 Drove to North Shore - Ocho Rios,  
via Spanish Town & Moneague.  
Picked up bitter cassava  
at roadside near Moneague.  
The road passes over Mt.  
Diablo, several higher ridges

found that  
this is -  
source of  
"mother a  
very beautiful  
wood for  
furniture."

in the region, and thru  
Fern Gully - remarkable  
depression. Diced with  
"tree" ferns - no collecting  
allowed. Took a big orange-yellow  
red flowered *Melastomaceae*  
~~the~~ specimen - tree about 20' tall,  
and orchid with deep magenta  
flowers. Swam in Caribbean  
on sandy shore beach of  
private property - the Shore Park  
Hotel - fortunately the hotel closed  
for season. Back in Kingston  
by 6:30.

June 23 Drove east along <sup>sea coast</sup> road to  
Mont Bay - many beautiful  
sea-scapes, but the region  
rather dry - much *Acacia*  
scrub, with little agriculture.  
Some banana + coconut groves.  
One point showed effects of  
hurricane - a mile-wide belt of  
coconut plantings sheared off.  
Made a few general collections.

Back in time to play tennis  
with two Englishmen + John  
Cobban at Officer's Club. Got  
a two-antennate *glimpe* of the

reasons for the down fall of British colonial system. The treatment given the blacks is brutal - evidence in every single dealing of the two races with each. Went to see picture

"A Queen is Crowned" - another evidence of an out-moded system. The Britisher as a fighting man is fine, but as a peaceful citizen seems to lack something - too much generalizations here, but this applies where I have seen it.

June 23 - Met Selch Hamilton, who has been assigned to help with the project. We went to Bodles for tubers of the varieties already studied. Found the development in the soil - there very poor although the plants had been in the ground for 13 months. Thence to Grove Place, but got no work done because of rain which came down in torrents.

Mistake there and so on to.

June 24 Spent part of morning at Hope taking colored shots. Left at noon for Bodles to meet

Hamilton, who took me to  
 Sargood's farm about 6 mi. N.  
 of Old Harbor. Met Mr. Hill, the  
 former owner of place, who now  
 is in charge of cultivation of  
 the place for Sargood (Henry)  
 who bought the place from him.  
 Was shown around the place  
 which has largest acreage of  
 cassava in the country. Cassava  
 is grown on hillside in very  
 loose, friable red soil, whereas  
 the flat fields are retained for  
 peanuts. The cassava plants  
 are uniformly the best that  
 I have seen due to actual  
 cultivation procedures. Growth  
 is mostly the bitter varieties,  
 since interested in starch  
 production. Some sweet varieties  
 are grown, but not so numerous.

Mr. Hill made trials of foliage as  
 fodder, using bitter varieties -  
 the leaves ground into meal &  
 dried at about 120°F. This  
 was a notable failure - when fed  
 to calf (1/4<sup>th</sup> to 2 qts. milk) the  
 calf died.

Expts. made with different NPK  
fert. conc., but no observations  
yet on production.

6/25/53 - Spent day w/ cars at Hope -  
About 20 names recorded, for  
a plot of standly plants kept  
only for possible propagations.  
Late in aft. took family for  
swim on unguarded beach E. of  
Kingston - a mistake because  
of bad relations with squatters  
there.

6/26/53 Talk with S.A.O.s + Dir. of  
Ag. to settle finally who +  
what of activities to come -  
Whole problem depends on agents  
charged with collection of varieties.  
I believe that Hamilton, of the  
agronomy dir. will be pretty  
conscientious about over-seeing  
problem. Fertilizer (at least  
sulphate of ammonia) should  
be added -

About seven parishes (particularly those in south central section of the island) will be covered by the parish officers, sending sticks to

Manderhill (Grove Place) and to  
Old Harbor (Bodley). Changed  
plot at Bodley from setting  
in main clay up to a section  
of lighter soils on the side  
of the hills.

Returned in time to get a swim  
at Courtleigh Manor Hotel pool in  
Kingston. Met game aloofness,  
snobishness from Englishman  
there.

Having tea + supper scheduled  
of the English habit is very pleasant  
for those who can afford the time.  
However, you don't have much time  
between to do much work,  
and the whole afternoon is  
spoiled. Supper at eight sounds  
fine, but by the time it's over  
it is half-past nine, too  
late to begin anything.

6/27/53

Not much activity cassava-wise  
today, but nice time with Connie  
+ children. Children played in  
pool at Cobban's Hotel A.M. -  
went for drive to airport (Palisades)  
aft. Evening to a night club  
with couple from hotel - enjoyed

Incidentally, the male - Dave Lyke,  
who was in a witty + pleasant fellow  
was one of the guys who gave us the snack  
at the pool this afternoon before.

6/28/53 dancing and calypso music.  
 Sent Connie and children off on  
 plane for Miami. Had a little  
 flury before take off, but everything  
 went off well enough. The tourist  
 tickets had to be altered for 1<sup>st</sup> class  
 flight. Hated to see the family  
 go, and moped about most of  
 aft during a torrential downpour  
 of rain, but actually best for  
 them, since they will have  
 more freedom and activity in  
 Miami than here (I hope).

6/29/ The rain was naturally unprece-  
 dented - 14 yrs. since I last  
 saw rain of this amount.  
 Met Mr. Hill, who introd. me  
 to a friend of his in furniture  
 business - Mr. Horace Andrade,  
 who makes his own furniture -  
 beautiful woods, i.e. Mahoe,  
 mahogany, golden-wood, etc.  
 Promised some pieces of mahoe  
 (Malvaceae). Went out to  
 Sargood's farm by lunch time  
 & saw few more cassanas -  
 have root specimens - must  
 spend some more time here.

6/30

Messed around most of day,  
but talked with Herwith, the  
ag. chemist who made some  
analyses of vocs. of cassava  
leaves - found to 3.5% crude  
protein in one (Black Stick).  
Got plants into drier - called  
Powell to make arrangements  
for trips around Manchester  
& St. Elizabeth parishes.

7/1

Went by "Sand Rover" with  
Gely Hamilton to Bodles & I hope  
finally settled on plot there  
for growing Cassava. The hillside  
formerly chosen too subject  
to the wind. Thence to Newleigh  
Hotel, in Wendenulle, - a rambling  
old shack whose expenses are  
same as at Mayfield. Had  
lunch with Mr. Powell, who  
arranged for week's activities.  
Went with Gardner (Parish office)  
for trip through southern  
part of Manchester Parish.  
Have struck upon a way  
which may differentiate  
bitter & sweet - by color of  
pith - white for bitter,

yellow for sweat. The area is quite striking elev at Mandeville 2500 - a ridge runs S. for about 12 miles + drops off suddenly toward the sea - to the west a large valley, along which runs RR for Kaiser Aluminum. Deeply eroded hillsides have left 'plugs' of harder limestone sticking up 20-40 ft about general level. In southern pt. of Manchester is region of most cassava - those farmers who heavily mulch their plants get big for the best results, but cassava can stand the drought very well. Returned about 6 PM.

the  
Lititz  
Savannah

July 2  
53

Left at 8 w/ Mr. Gardner to meet district officer of St. Elizabeth's parish - Leo Scott at Gutter, a "town" on parish border. Collected specimens of cassava all morning, had lunch with Mrs. Trevor ~~at~~ in Santa Cruz. Valley region

of low elevation is center of  
cassava growing districts in the  
coland - very hot + humid in  
places, hot + dry in others.

Met the Parish officer - Philips  
who is going to Cornell this  
fall - gave him Lawrence's addr.

Met Mr. Powell at 2:30, +  
returned to Mandeville after  
southern tour. Supper at  
7:00. Prepare plants til  
10:00, write report til 10:30  
and hit the sack!

7/3/53

Made another tour of Manchester  
with O. E. Gardner, and picked up  
a few more "varieties" - not one of  
which was in fl. or fruit - apparently  
some sort of peculiarity in this.  
Can't see any light on it yet.

The names of the so-called  
varieties are quite local for  
some, but others i. e. Bobby  
Hanson, Catch Thief, Blue Band  
are rather wide-spread. There  
has been some selection of  
varieties, apparently by  
rather dubious means, by  
the farmers. The persistent story

of some bitter varieties & turning  
sweet in different soils has  
no basis in actual exper. work.  
Always it is "I heard of it happening".

Because of the suspicions of  
the farmers, I doubt if I could get  
very far with this <sup>work</sup> unless one  
of the local agents, who speaks  
their accent more along. Maybe  
I'd be less hampered, but it  
would be difficult to get into  
the fields for samples w/o  
assistance.

7/4/53

July 4<sup>th</sup> is no different from any  
other Saturday in this country.  
Saturday is market day, and  
a chance to see the local produce.  
Aside from a relatively few  
different foods, i.e. yams, sour  
sof, ginger, coffee beans (V. low  
grade), you could see the same  
vegetables in any market.  
Cassava starch sells for  
7 shillings (284) a quart.  
"Bami" is the name of another  
product of cassava which is  
sold. The butcher shops  
sell only pork or beef - and the

"ginger"  
or  
"ginger"  
pina

keef is cut into such pieces as to make it difficult to tell what part of the cow the thing originally occupied.

Spent aft. looping on hotel veranda talking to two young Canadians working for Jamaica Aluminium. In town here. Went to busy movie in evening.

7/5/53 - Spent morning talking w/ Elaine Henricus at her home in Mandeville. She's a remarkable person in character - father dark, but she as light as any with blond hair - fiddled around in afternoon til 5, then drove Elaine back to Kingston.

Reflection on cassava. A difference exists, supposedly, between bitter + sweet in action on cooking. The sweet, upon boiling turns soft + mushy, the bitter upon boiling stays hard. Will have to try this out.

7/6/53 Make hurried trip to Hope, changed plants in drier - got some in fairly good condition. Went by to hotel to wait for Mr. Hill, to go out to Sargood's farm near Old Harbor. Put in a good day's work, trying to analyze some of the varieties there. Probed a few "mass collections" but will need much more in order to really get good definitions. Finally hit the sack about 12:00.

7/7/53 More work at Sargood's place. Fear for Mr. Hill, whose heart is about to give out on him. A remarkable man - looks old, but indicated other day that he isn't over sixty. He had to take it easy today because of over-doing. Riding about in his "Sand-Rough" not too easy on him. Back to Mayfield about 7, and chit chat with Richard Baker, Peter Smith, the Birds. Went out with the Cobblers to little bar up towards Newcastle.

Got my first dose of darts -  
for which I can see too little  
reason.

7/8/53 Made final arrangements at  
1 Hope for the exp'tl. work. Hope  
that my plants will get safely  
back to the States - only time  
will tell. Tried to get visa  
fixed up for Costa Rica, only to  
find C.R. consularly operates  
9-12 am. That had to be done  
tomorrow.

7/9/53 Got visa okayed by 11 and  
went around to see Sargood.  
More biggotry + lack of real  
sympathy for Jamaicans.  
Then went with Mr. Hill to  
the Yallahs pally, St. Thomas  
parish for last loop at  
cassava. Got two more  
varieties, and one "white stick"  
sweet cassava which I hadn't  
seen before - Mr. Hill has  
sample of it. Home at 6,  
dinner, pack + sleep.

7/11/53 - Up early to get off on time.  
Halch Hamilton saw me off  
on a jeep - same weather

7/8/53

Hamilton  
the ag.  
channel  
is to  
run at  
constant and  
HCN  
constant on  
Hillsides.

as the day came left. Delayed  
the flight to Baranquilla, so  
missed connections for Panama.  
Spending night at Hotel Astoria.  
Bed as hard as a rock - this  
at expense of Anisaca.

Wandered around town for  
a while, but not very unusual  
city - bigger, and hotter,  
however, than Kingston. Just  
hotter. An immediate difference  
is notable, however, in the  
lack of racial tensions. All  
shades occur here, but as  
sullenness or down-beated  
look on faces of even the lowest  
type of characters. Tremendous  
no. of people selling lottery  
tickets. Several stores air-conditioned.  
They mostly drive on the right  
side of the street & there are  
more American cars than any other.

9/11/53

After messing around Baranquilla,  
seeing outside of Sears-Roebuck  
store, climbing stairs of partially  
finished modern post office,  
returned to airport. Had to get  
a landing permit for Panama.

This business of landing permission had never been mentioned by PAA officials anywhere. Must remember on future trips to get such for any country where plane stops, just in case of miserie.

Off by PAA at 1:30 for Panama. Landed at Tocumen airport near Panama City at 3, thru customs by 4 and to fancy hotel 'El Panama'. Took a taxi out to see Miraflores locks on the canal. A very fascinating piece of work, passing ocean-going ships <sup>there</sup>. Back to hotel for supper, hit sack about 10:00.

7/12/53 Up at 4 to get plane for Costa Rica. All arrangements made and easy passage assured. Flight was very interesting, starting off over Pacific, crossing 9th time in N. Panama, and flying up C.R. parallel to coast. Vast stretches of unbroken forest. Then inland over 1000's acres of mostly

large coffee fincas, broken by  
wind-breakers of trees in very  
interesting pattern. Whole  
country beautifully green.  
Arr. San Jose about 7 AM  
(Central at time) after 2 hr  
flight from Panama. Met  
a chap who lives in San Jose  
who took me from apt to  
R.R. station for Turrialba.  
Had funny notion that " " was  
close by San Jose - actually  
about 40 miles away, a  
2 1/2 hr. train trip. Normally  
leaving 8:30 - arrive 11:50.  
Not on train - got stuck behind  
a tipped-over box car. They  
shoved the box-car over,  
shoved over the rails +  
then 2 hrs later we left.  
Arrived at Turrialba at 1:30,  
and fortunately bumped  
into Dr. Robertson, who took  
me to station about 2 miles  
from town. Met many  
of the families at a Sunday  
afternoon party at Robertson's  
house. Met Dr. + Mrs. H.C.

Thompson, who knew of my coming, and who asked me to stay in their house - a very nice place furnished by the 4 institute. People start work here at 7:00, coffee at 10:00, lunch til 12:00, 1 hr. for lunch, coffee at 3, and quit at 4:30. This is better system than in Jamaica. So, early to bed - ready for it since being awake since 4:00 AM.

7/13/53 - Met Gorge Leon, just back from St. Louis + Ph.D. - talked over plans for study + went to see plot of cassava which Gorge has maintained. Spent afternoon looking at references in library on cassava. Not too much there, as expected.

Had nice dinner with Gorge + wife, talked of Wash. U. + Gorge, etc.  
7/14/53 - Wrote letter to Edmund + Monroe - still have introduction problems. Need an intermediate station in quarantine to see whether plants are free of disease. No restrictions by law in C. R. for establishment or introduction, but

don't want to be personally responsible for bringing diseased organisms in. Talked to Dr. Wallman, plant pathologist whose interest in cassava (must call it yuca here) will be of some help in this program. Called Harold Murray in San Jose, now working as advisor to ministry of agriculture of C. R. in order to get transportation + assistance in getting around to see local plantings of yuca. Will see Mr. Murray after lunch Thursday. Got stuck for a seminar by Dr. ~~Wood~~ (?) on 17<sup>th</sup> of August. Sozeung

7/15/53 Spent day collecting + observing the yuca of the plot established at Instituto Early to leaf

7/16/53 Went with Dr. Allen and LaPrade Bus. Mgr. to San Jose. Nice trip by car - 1 1/2 hrs by car. Pass to S. of volcanoes Turrialba and Irazu. Pass over continental divide at about 5000', near Cartago.

San Jose is nice, clean city, very much like most other Latin American cities, but cleaner than most. The central market, near Avenida Central is the same as can be found anywhere. The cheaper clothing, shoes, and other dry goods sold here. Food is sold in separate little stalls. Most fresh vegetables are found here.

~~Met~~ Had lunch with Dr. Albee in the Spanish Restaurant - a very nice place - had heart of palm salad, but can do well without it.

Met Dr. Mowsey, and head of Dept. of Agronomy, Ministry of Agric. of C.R., Sr. Carlos A. Gonzalez. Both interested in project and willing to help with Maribol work. Am to go Monday to "Old Jim", which is region formerly used by United Fruit Co., now mostly in small plantings of yuca. Then, after local elections, am to go on (marcado) central,

the plateau in the central part of C.R., with agents of the Minister of Ag.

Returned to Sanjalba by 4:30, had supper + talked with Charley Heiser til bed-time.

7/17/53 - Spent half-day in field, photographing + sampling specimens. Rains in the afternoon prevent any field work. Went to Spanish mouse in Sanjalba - understood nothing of it.

7/18/53 Went to Rubber Expt. Sta. which adjoins the Institute grounds. Met Director, Dr. Imle (I'ml) whose main int. is Hevea, but also some interest in yuca. He turned me over to Dr. Hittel (?) a geneticist, who showed me through their work. Biggest worry is effort to get resistant plants to the Brazilian Leaf Blight (not so serious here) and to a species of *Phytophthora* which is very virulent. Process is something as follows:

start with a seedling from seeds in Brazil, graft (at base) a high yielding far-eastern variety (the female) and then graft at top of this same hybrid, or locally selected variety with resistance to the leaf blight and the Phytophthora. Many other aspects are being studied, but these are main ones. Rubber plants start producing in about 5 yrs + should be good for from 10-20 yrs.

Spent afternoon sleeping, then went to buffet supper at the home of Dr. Hittel (?) of the rubber station. Has very nice house furnished by the govt. The houses are all new and built with living quarters on 2nd floor. To bed at 2 AM.

7/19/53

Spent the day doing nothing. Had nice lunch with the Thomasons.

7/20/53

Messed around in morning. Took train "Rapido" on the "Pacheco" to Socorro. Met

John Bowden, our interpreter and guide from "STICA" who came down from San Jose. Charley Heiser along. Got off in Siquirres to arrange for our motor car. By good chance John knows most people in this area, got us nice place to stay the night at the guest house of the Northern E. P. RR. Night cool - needed blanket. This region much lower than Turrialba in Atlantic Coastal Plain. Trip down, by the Reventazon River - a very rapid & destructive river, was striking panorama. To bed early.

7/21/53 - Our motor-car, arranged to arrive at 7:00 made it by 10:30. Pretty good time, on the whole. Motor car moves on dispatcher's orders, and waits til track is clear ahead before moving from one little siding to the next. This gives time to stop and see the area, and sometimes close enough to <sup>is a</sup> patch to make specimens

and enquiries about varieties. Seems a remarkable uniformity and small no. of varieties all composed with Jamaica. All varieties here are sweet. Have yet to find a bitter one.

Lunched in Guácimo at Ag. Dept. of E. P. house. Monday the road + reached Los Diamantes, the USDA + C.R. rubber expt. sta. met Mr. A. McMillan, whose running the show while the head man - Gene Morris - is in San Jose. The "ghost house" is the most surprising thing about this place, 26 miles up the "old line" and at the end of the R.R. This very nice home - all electric with deep freeze, radios of all sorts, books, and a beautiful garden looms up in the bush out of nowhere. Even has a swimming pool - when there's enough H<sub>2</sub>O in the nearby creek. Went out to see the rubber expts., and with exception that we saw plants of rubber trees brought back from Peruvian var.

by Russ Seibert, the place is the same as at the rubber store. =Huleram Uleta, the adjoining property of the Institute at San Isidro. Had a nice supper - the three of us - Bowden, Heiser & I, with all the service of the best hotel. This at the rate, of course, of about \$5 a day.

7/22/53 Left Los Diamantes by motor car to go down to the areas where more Jamaicans live, to see whether any var. had come over with them. Met a few older Jamaicans who knew some of the names of vars. in Jamaica, but none who remembered bringing any with them. One slight possibility of introduction is a var. grown near Guapiles called "Negra", but which has a white product in the tubers. This var. was grown by a Costa Rican, not a Jamaican. In late afternoon returned to Los Diamantes, then walked about a mile into Guapiles, the town at the very end of

The P. R. to see Ernesto Campbell, a 1<sup>st</sup> generation Jamaican in C.R. who makes his living by digging pottery out of old Indian graves + sells it to the tradesmen in San Jose + others. Some pieces are very nice, but his price is usury.

7/23 Returned to find John Carpenter, a rabid pathologist at guest house - interesting character from La Hulee who talks a stream of lightning. So had early so as to catch the morning train at 5 A.M. Returned to Turisbella, and again got help to get to Instituto from Dr. Robinson, the man who met me the first day here. Think I wasted quite a bit of my time ~~that~~ the rest of day.

7/24 Got haircut - really looked shaggy. Went with Jorge to see Richard Shultes, just in from Columbia + the Amazon, on his way back to the States. Says I should talk to Mangelsdorf at Harvard about support from

Rockefeller assistance with this work.

Spent the afternoon working on plants, w/o too much success. Keep getting false starts, + making errors in measurements. Next trip, should have steel tape w/ metric scale on a roller.

7/25 Saturday night quiet, reading + to bed early.

7/26 Sunday spent with Ernest Inb + family after morning of yucca study. Decided to go to Nicragua with Dr. Wellman. R.T. fare \$36. Met Am. family living in C.R. for 30 yrs - the Woods - sort of peculiar chap who raises coffee.

Inb is amateur orchid fancier - got a large no. around his house.

Had nice little supper with the Thomasons. Again, bed early.

7/27 Had a blow - found my camera was stolen - no possible way to find it, I fear. May turn up, but 1000:1 against. Filled around looking, but to no avail. Just can't keep up with everything all the time. Fortunately,

had the school camera with me, not in  
~~my~~ Leon's office.

Went home in evening to find a  
party going on so had to stay up  
til they all left. Party for departing  
American students.

7/28

Tues. left early for San Jose, but  
not before receiving a negative ans.  
from the Pl. Introd. people in Baltimore  
as acting quarantine agents. Don't  
know what plan to follow now.  
Had lunch with the Heisers, & found  
them upset about poor lodgings,  
and somewhat sick w/ dysentery.  
Hope I don't get it. They're moving  
up to new & better apt. in the  
morning.

Heiser & I to go w/ Min. of Ag.  
aft. train now to Socie to see  
starch mill & yuca. Talked to  
man who knew about closed  
starch factory in "San Angeles"  
on the Old Bus. Found that poor  
studies had been done & put the  
cart before horse.

Supper with Heiser & family.  
Nice to have meal fixed a la American

Actually a factory to make a meal of  
stems & husks for cattle food. Plants  
close together & harvested at 3 mos for this  
process.

This part  
furnished all  
the money  
for this year  
plant.

Go man in the states to contact  
for information on what happened  
in P. S. Wilson  
La Cade Hotel Bldg.  
Mobile 2, Ala.

- 7/29 - ~~Difficult to make trip tomorrow to~~  
~~went~~. The trip to "El Cacao";  
 a village + farm near Alajuela  
 very satisfactory - found some  
 Brazilian imports, as well as  
 one from Cuba - both used in  
 commercial plantings.  
 The agent who took us out from  
 the Ministry of Agriculture is  
 Rodolfo A. Castañ. - don't forget the  
 finery = "G". - Returned by noon - spent  
 part of aft. talking to Sr.  
 Sas Holdridge - a forester with  
 tremendous experience in tropical  
 timber - knows his work very  
 well. Supposed to make trip  
 to w. coast Friday w/ Acosta.
- 7/30 - Visited Natl Museum of Costa Rica -  
 their displays of pre-Spanish Indian  
 pottery, idols, jewelry financed  
 by an American - other part  
 of museum closed for repairs.  
 Took Dorothy Heiser to buy  
 food at the market.
- 7/31 - Trip to w. coast failed to  
 materialize, so returned to  
 Turrialba with wife + one of  
 the photo docs on Cacao at the

Rodrigo Orellana

## Instituto.

- Aug. 1 + 2 - Weekend at Turrialba, without much activity - except that finally decided on making imports to C.R. since Dr. Claud Houm gave Dr. Frederick Wellman, Regional Consultant in plant pathology (famous for his trip around world examining coffee typhoid diseases) the green light in the study of diseases of guava. Now I have a green light to go ahead since Dr. Wellman will be able to keep a close eye on the disease problems of introductions.
- Aug. 3 - Wrote up project for formal acceptance at Turrialba, submitted to Dr. Thompson. Wrote letters to several places for specimens. Left Turrialba w/ Dr. Wellman at 2:30 for S. Jose - spent night in Hotel Costa Rica - went to see "Lili" a very good movie.
- Aug. 4 - After 3 hr. delay, left S. Jose for Managua, Nicaragua - interesting flight over Volcano country, Lago Nicaragua to airport S. of town. Met there by Dr. V. Wail Peterson - a very good Joe - went to his house for lunch - wife Connie

Personnel of Serv. Tecn. Agricultura  
de Nicaragua (STAN)  
Virgil C. Peterson

W. P. Durus - Horticulturist  
Sam Litzenberger - Agr. + Pl. Pathol.  
Jeff. Flanagan - Ag. Eng.  
Carter - Vet.

34

- one boy 19 mos. old. Went into town  
after lunch + met IIAA (Pt. 4) Baden  
Pimney (Phinney?) - Bs. Mgr. Goss +  
(Wendt) - one other. Went to Embassy - met  
1<sup>st</sup> Secy Welch + Ambassador Whelan  
both of whom seem to have  
good notion of needs of country +  
sympathy for Ag. program.
- 8/5 - Day spent w/ Litzenberger examining  
plants of various kinds for  
diseases. Found an interesting  
type of yuca w/ leaves all along  
stem at maturity.  
Interesting cotton oil crop -  
day w/ Durus in horticulture  
s. of Managua at San Marcos.  
Saw interesting area blighted  
by fumes of volcano.
- 8/7 Went to Masaya + vicinity  
for yuca with Peterson.  
Not much new there.  
The Nicaraguan soils seem  
very interesting + productive.  
Large amts of cotton, rice +  
sugar cane. Don't is it  
too conducive to progress  
(dictator Somoza) - but stable.

In Nicaragua at STAN,  
finally found character of  
yucca maintaining leaves  
until maturity of plant.

- 8/8 - With Sitzerbarger to Monte Simón  
on the Pacific coast - big sugar  
plantation owned by Somoza -  
poor handling. Lunched at  
a run-down resort on sandwiches  
made by Sity - wife. Found some  
yuccas, but nothing spectacular.
- 8/9 - Again <sup>with</sup> Sitzerbarger to Pivas and  
to Lago Nicaragua - Volcano  
"La Concepcion" gave regular puffs  
of smoke + noise on island in lake.  
Found a dwarf hot pepper for  
Heiser.
- 8/10 - Returned to Costa Rica, in San  
Jose by 11:30 - didn't get to Turrialba  
until 7:30 PM - supper furnished  
by the Thompsons.
- 8/11 - 8/14 - Worked up seminar,  
worked on yucca - nothing spectacular.
- 8/14 - Big celebration in Turrialba to  
commemorate 50<sup>th</sup> year. Institute held  
big dance - President of C. R. Ulate  
there - nice guy - wanders around  
without escort - wives in all groups.  
Dancing something to watch - the  
generations require extra joints.
- 8/15 - Left Turrialba 8 AM in force  
León + wife Maruja for visit

to same farm visited before at El Cacao, near Alajuela. Bought hats at "Segundo Lago" in Alajuela. Visited big Spring "Ojo de Agua"; well fixed up for swimming then to farm. Came back to San Jose by bus from Alajuela for Gt. Stayed at Pension Canada, had supper with Heisers and thence to bed.

- 8/16 - Up early again for trip to Cerro de la Neve, on Pan American H'way. The H'way going S. turns off at Cartago, and then starts climbing for about 5000' to an elevation between 12-13,000 ft. Although some clear weather, mostly covered with thick heavy fog or clouds + very cool. The highest points were Paramo - above tree line, with several endemic shrubs + herbs - outstanding was a bamboo (*Chosia?*), an *Hypericum*, an *Andean Rosaceae* plant, *Jamesonia*, and an enormous *Rumex*. Found beautiful *Symblocanthus* (*Benthianae* in flower).

On the way back, ran low on gas, and were lucky to see into 2 cars, one of which was owned by the brother of the incumbent President, Figueres. Got 2 gallons, returned to Cartago, picked up Maria + returned to Turrialba late in afternoon.

8/17 - Gave seminar on yuca which seems to have been well received by the students + staff at the Institute.

June 7,  
1954

Off on the same routine - left Woodville with Bill Parsons at 8:00. Stopped on way to Pittsburgh airport at McConnell's Mill - deep gorge off Rt. 19. Looked around for so long that we had to go at breakneck speed to get to airport on time - just made plane for Miami. Sailed at 2:30, left by Avianca at 4:30. Very rough flight late at Kingston. Settled in same room at Mayfield Hotel as occupied last summer.

June 10 - Public holiday - Queen's Official

Birthday - everything closed -  
I slept - needed it badly.

- June 11 - Rented car - same car - as last  
year - same price. Checked  
prices of table linen - too high.  
Went to Hope - everybody but  
Dr. Off. in Agronomy Dir.  
Mr. Higgins out Bangalore,  
from Acting Director Gregory  
thru Dir. of Res. Stuart on  
down. Talked to <sup>Harnett</sup> Higgins.  
In afternoon made arrangements  
for photographing board - paid  
for material. Evening talking  
to Mr. Cisy - he works as  
ag. agent for Shell Oil Co. Michigan.  
Obliged - in afternoon went to  
University of W. G. looking for  
Prof. Cechy - didn't find him,  
but met a young pl. physio.  
just out from Engl. - Palmer -  
who showed me around - nice  
lab set-up and plenty  
room to work - pleasant det.
- June 12 - Made tentative arrangements for  
HCN, carbohydrate + protein leaf  
analyses with Richardson - ag.  
chemist. Drove out to Bodles

Sat. aft. to see experimental plots. Was very agreeably surprised at large nos. of plants + good condition of them. Evening spent reading + early to bed.

June 13 Drove to Castleton Gardens about 20 miles N. of Kingston. Nice collection of introduced plants - good look at common holly tree, Pachira, tree ferns, etc. Drove on to N. coast + lunched at Villa Hotel near Port Maria. Picked up a Jamaican who claimed to be a general of the Maroons. Gave me history of the group - claimed descent from Nehemiah or some such. Mixt. of Araucaria + Negro.

Swam all alone at Shear Park hotel beach. Home for supper and again to bed early.

June 14 Finally contacted Stuart + talked to Deputy (Acting) Director Gregory. May have a chance to provide transport, but I'll believe it when I see it. Out to Bodles and then to Isime Place. Again agreeably surprised at Guss Place at the good

Plantings of cassava. They have recorded 108 names of plants received. The effect of the different soils is at once noticeable. The branching is much greater, the plants aren't as tall, and many are in fruit, which is not the case at Bodles.

Met the off. in charge in Mr. Powell's absence - Eustice trained at McMill.

Home, chat with Craig, + to bed to read a while.

6/15/34 Tues - Thurs: Bodles, working.  
16 Reading at night.

17 Thursday night contacted Grady Webster (NSF fellow ship at Harvard) + K L Wilson - grad. student of ferns at U. of Mich. Made arrangements for Sunday trip.

6/18 Friday - Saturday: Saw Mr. Hill, Sargood. Sargood had a Mr. Kelly of the Marketing Div. out to talk about cassava. Not much accomplished, as far as I could talk.  
Saturday - same old routine.

Rained out in afternoon.  
Talked w/ Webster + Wilson in evening.

W/ Webster + Wilson

6/19 - Made a killing trip around E. end of island. Lunched at palm-fringed beach at E. tip of island: Point Morant. Then up along E. coast to Manchivual, looking for plants of same name. May be some there, but we didn't find it. Thence to Port Antonio (Tidfield Hotel, owned by Ernest Shore), Amato Bay + cross island to K'ata.

Santa

Lay somewhere

Mon. 6/21 - Good break: car assigned by Pub. Who Dept. Free, exact gas. A Vanguard by name. Much better car than Vaux Hall, financially and otherwise.

Also had an assistant, Dr. Ashton Taylor, PhD from U. of Ill. - a coin man, assigned as co-worker on project. Hope he works out well. Also have board set up for photography at Bodden

1955- on N.S.F. grant

- 6/4 - Left home, from airport in Eric-  
John cited - Cleveland - St. Louis.  
Fred Meyer met me, gave me supper.  
staying w/ Henry McQuade.  
M<sup>c</sup>BG in state of upset: old guard  
having trouble transferring to  
Andersonian direction. Garden  
looks very ready.
- 6/5 - Talked w/ Anderson all aft.
- 6/6 - Left in aft. for ~~St. Louis~~  
New Orleans - stayed at St. Charles <sup>Hot.</sup>
- 6/7 - Left 7 AM for Merida. Arr. 9:30.  
Went out to Chichen - 4 hrs for  
2 day stay: very nice stay at  
Mayaland Hotel - quite very good.
- 6/9 - Left for San Salvador after  
terrific rush to get visa for there.
- 6/10 - San Salvador to Honduras after  
getting Honduranian visa.
- 6/11 - Arrived San Jose 12:30 - met  
by Jorge Leon. Went directly  
to Simichler + settled in  
dormitory - the "Edificio".
- 6/12 Met Dutch Forester in  
Food + Agr. Organ. (U.N.) -  
Dr. E. Jan (John) Schreuder -  
nice fellow w/ 20 yrs. trop. experience  
in Java, 5 yrs. in Pap. Prison Camp.

Plants seen in Colombia ~~for~~  
have larger inflorescence  
than those seen in C.R. of Jamaica

6/13/55 - 6/20/55 -

- Working on yuca collections -  
35 varieties only - much disappointed  
with conditions + no. - did usual  
sampling + photographing.
- 6/20 - Played tennis with Schreder.
- 6/21 - Conf. w/ Dr. Albee to get  
Rockefeller support for project.  
Asked for \$12,000 to get project  
on good foundation - We went to  
Columbia to talk to Directors  
of Rock. Found. + will report on  
progress on return.
- 6/22 - 6/24 - Trip to Los Diamantes  
on the Old Line with Jorge Leon.
- 7/3 - Left San Jose for Colombia  
via Panama - need personal visit  
to Colombian consul to get visa.
- 7/4 - Arrived Cali, Colombia 9:30 -  
to Facultad de Agronomia in  
Palmeria for talk with Ramos-Núñez.  
Has 8-10 var. in collection. Visited  
farm w/ 80 (ca) acres of yuca  
using now 4 var. - Good  
production high - say seeds  
fertile, and superstition that  
plants w/o seeds n.g.

Physiologist - degree from Iowa State  
Wants Biblio. + reports on  
Physiol. + cult. of yuca.  
Address. Univ. of Caldas  
Facultad de Agronomia  
Manizales, Caldas, Colombia.

address Apt. Aereo 193  
Baranquilla.

mentioned in  
first trip

7/5 - To Manizales: met by  
Navarrete (Facultad de Agronomia)  
who drove me to Chinchina  
Expt Sta. where met Dr. Alberto  
Machado - no time to see plants,  
but talked to director who can  
get things done -

7/6 - Medellin, no results at all.  
Met U.G. Grant (Rockefeller Fund)  
at Facultad de Agronomia - not  
interested in Manihot.

7/7 - Medellin direct to  
Kingston via Baranquilla.

- Met Edward S. Nelson - lumber-  
man, in stop at Baranquilla -  
interesting to see the commercial  
type mind - hires an agronomist  
and wants immediate results.

Thinks the same in Hope + Maryfield.  
- Hamilton, who left department  
before my second trip - died  
in Canada.