



Hunt Institute for Botanical Documentation
5th Floor, Hunt Library
Carnegie Mellon University
4909 Frew Street
Pittsburgh, PA 15213-3890
Contact: Archives
Telephone: 412-268-2434
Email: huntinst@andrew.cmu.edu
Web site: www.huntbotanical.org

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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.

9

"At Lisbon the thermometer rises occasionally to 100°F and in 1798 even 104° over the river."

Mean temp of July 90.6°F
 27.5°F and 102°F are the extremes.

Mango, only recently introduced, here found a congenial climate.

Reclus: The Earth and Its Inhabitants Vol 1, Europe, p. 487 New York

De Carlos de la Torre says:

36 Prado
Camey - good mangos
also at other places near
Santiago de Cuba

Cotayon was good.

Mango de Señora

Toledo, Dos Bocas (the poor
Selling)

At San Francisco de Paula
Quinta de Guiterres
Very colln of mangos

#15 Large
10 a foot

Fernando Simon

Rafael Gonzales

Quinta Arley
Cuenfuegos

has been here 25 yrs, when
he came the mangoes were
already large

Send colln of *Dahlia*
next fall

Mr Cullen has seed from Taft
Taft fruit weighing 21 eggs
Champion " " 21 "

These are the largest spec-
imens of these seeds. we have
come to my notice.

Wilson Popeuse
U. S. Dept. of Agriculture
Washington, D.C.

Spanish line sails from
Porto Rico 28 of each mo. for
Halifax, time 3 days.

3 other lines from P.R. to Cuba
stopping at Domingo & Hatteras,
landing at Santiago in about
10 days. One ship leaving
P.R. about 5 & one about 15 of
each month.

Porto Rico

Shamel wants information
re oranges & pomelos, espec-
ially wild oranges. Is there
any variation in wild orange
trees?

What stocks are used?
What is the individual production?
Season of ripening?

How is the tobacco industry
coming on, particularly that
grown under shade?

Mary Leitch
Garrochales, P.R.

X H. J. Sewall
324 Indiana Av. Naguabo
Caring on mangoes & guavas.

T. E. Martin
Rio Piedras
need considerable material. Inter-
ested tropical fruits & spices.

L. G. M.
San
12 yrs
fruits.

Dr. Hee
Villa
Has trees
things

Mr. J.
Fur

phone
Mr. J. S. Heros.

THE DUMONT

WASHINGTON, D.C.

Mr. THOMAS PERCY LITTLE

Dear Mr. Little
I have been interested
in tropical plants
of the
Cuba
aw

Cuba

Prof. F. S. Earle
Herradura Pinar del Rio.

American Photo. Co.
Obispo to Altos
Habana

X Dr. E. F. Cabada mangosteen
Cienfuegos.
Has small botanical garden

Cuba & U.S. Fruit Co.
Arthur Brant Mgr.
Planting trop. fr. Gibanajay

C. A. Ward
La Gloria

Ed. Ferrer
La Magdalena
Cagamas
thru Baker, interested in plants

Richard Smith Howland
Los Palacios, Pinar del Rio
Interested in fruits.

L. G. McGowan
San Juan

12 yrs experience caring for trop.
fruits. Rich grow fruit plants

Don Heinrich G. Leonhardt

"Villa de Leon" Bayamon
Has trial plot for sweet & rose
things. Rich much material

Mr. T. P. Lippitt

Finca Sanjux
Rio Piedras
phone his brother in law
Mr. T. S. Heriot.

Cuba

Prof. F. S. Earle

Hernandura Pinar del Rio

American Photo Co.

Obispo 70 Altos
Habana

X Dr. E. F. Cabada mangosteen
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La Magdalena

Cagamas
then Bata. Interested in plants

Richard Smith Howland
Los Palacios, Pinar del Rio

Interested in fruits.

Francisco A. Waterio
X 13 Luis Estavez St
Santa Clara
Interested in mangosteens

Brother Leon
Tedado, Habana
Colegio de la Salle,
botanist

H. U. Kies
Victoria de las Tunas
Interested in experimenting with fruits

X Mr. Foster

X Van Hermann

C. E. Beatty
German Keli Worker
Espejanals 30, Habana

Florida

W. S. Taylor
1919 Walnut St
Jacksonville

Dr. Franklin Miles
Fort Myers.
His son-in-law, Dr. J. B. Porter,
will be there

X Krome
Homestead

J. G. Porter
Key West Realty Co.
Location of Biological
Laboratory.

Mr Hodgdon
Duval St. Key West
Has grape vine

Sapodilla on No
Name Key. Nicolas
Mateovitch.

Go to R.R. office, Key West
see if Mr. Brown is
there. Do not ask for
Mr. Cas.

Go to Zona near Miami
in Everglades.

See Tappie Green in

Look into irrigation in
Miami.

Kirk Monroe
Mathewson

Isla de Pinos.

Lester S. Brown
Columbia

Setting out to a. to avocados &
lettuce mangos. 1912.

Spalding Mc Intosh
Mc Kinley
Rich Little Lansonum plants '08

Geo. A. McMullen
Mc Kinley
grows mangos. by. ~~Letter~~

Bert L. Hill
Nueva Gerona
Large colony of Citrus. Trop fruits.

H. S. Jones
Santa Fe
Rec'd much material by. > X

X Mrs. E. A. Haines
Santa Fe Mrs. Pack
fine garden

Rev. B. B. Hiatt Trop fruits.
West McKinley

~~X Mrs. Pack~~

X Dr. Hallis

What sort of place is
the island of Avalos?
Good place for tropical
quarantine station.

Dr. Ramsdell.

Let him know when I am
coming & he will meet me, at
Guacaro, his landing point
across from Columbia. If he
is not there go out with
Lester Brown, postmaster.

J. Young, McKinley
Malayba orchard

N. Y. Botanical garden.

Britton

Small

Nash

Harper

Taylor's Litchi Trees, Tampa.

Take Nebraska ave. car
on Franklin St. get off
at Mableys Corner, 1/2 or
2 stations before end of line
Go East (right) for 1/2 mi.
to 3rd cross street, then turn
to left & hit place 1st house
on right. Two cottages close
together, trees in rear of
houses. Darby family - Lee.

Malagala tree

George H. Gale.

No. K. M. Bowman
King Bridge 56,
242nd St. Express to 28th St

St. L. Burleson
Take car to 23rd St transfer
cross town

Annonaceae

Isle of Pines. A sweet
sour soap of excellent quality
is reported. Possibly it is only
A. muricata distinguished from
wild sour soap (*A. molle*).
Insect-gate.

North Cuba

Bull horn acacia said to
be indigenous at Abasco
and Santiago de las Vegas.
Is it really indigenous or a
cultivated hedge plant?

Annonaceous plant guacima-
baie or malagueta grows
in Uuelta Abajo. used as
spice. Is it cultivated.
Want specimens.

Cladonia sp. known as
yega or lancewood, grows
in wet places.

Porto Rico. Rollinia
muscosa, sp. first

described from a cist.
plants on Sw. extremity
of Haiti. Fruits of P.A.
Hollyha unknown and
flowers apparently quite
different from those of
mucosa, and smaller. Desire
fruits or description +
photos of same. get
vernacular names. It
is called Amora babosa

Mr. Safford. Have you seen
specimens of fruits in alcohol
of Ar. Chelymbia in Museum
N.Y. Bot. Gdn. One with very
prominent protuberances on
below summit. Both from
Mex. City, by H. H. Rusby 1896

Sapote Blanco named
Lobelia ramosa, appears
to be our Casimira edulis

Sp. of Bromelia from Jamaica
Mexico, looks like Bromelia
glavata from Bolivia

Family Myrtaceae - Myrtle Family

Avocado - Persea Persea L.

S.S. Carolina, July 1 1914

Cold Storage of Bushwood.

Engineers say the compartments in the cold storage plant are kept at 48° and the strawbale ice box, where fruit for use on trip is kept, is the same temperature.

Judge Lundt and Co
Ponce

Santiago de Las Vegas
Van Hermann
Agdon
Gawley

Hotel Plaza
" " Estancia

Gonzales, Tues. July 7 1914

Ask Mr Bisset if he can send Mrs Leitch best grafted avocados & also scions.

Send Mrs Leitch mango publications & photos of Colombo kidney as well as those taken at the plantation.
Woodrow

Santiago de Las Vegas, July 22 1954

Pandejera

Wild spec of *Solanum*
used as stock for egg
plant. name ~~me...~~
floridus ~~lutes.~~ Plant
Common herb. ~~grass~~
ht. about 10 ft.

Egg plant grows 4 ft
high in our roots.

or Pandejera grows
8 ft & ~~lutes~~ in
summer. Important
for summer cultivation
Quality same as in
roots. *S. cordifolia*

Herzadura, July 17, 1914

Mango Types

Two principal types, or main divisions, of Cuban mangoes are:
Mango type. This is always an elongated fruit, or longer than broad, and generally slightly beak. The tree is upright, high, and not flat topped.

Manga type

This plant is nearly always shorter than long, oblique, and full of firm pith. The beak is usually lacking entirely. Some specimens resemble the Apple type. The tree is spreading in growth & usually flat topped. Fruit very sweet in flavor.

In Oriente the mango type is called manga & manga type called mango.

Vates Caribbaea

Occurs in this province vigorous one, distinct in leaf from northern varieties. The fruit is small but about equal in size + quality to U.S. wild species. Prof. Enck thinks this sp. should be hybridized with northern mango to produce a variety for culture in tropical regions. Thinks it will give rise to an industry.

Hennaduro, July 17 1914

Filipino mango

Prof. East considers
this the most promising
Cuban race. Says, how-
ever, that all Cuban
mangoes he knows are
polyembryonic.

Navel Orange

on soil before seems dust
no good. On sour orange
or trifoliate O.K.

Guarabana

needs fertilizer, as does
the Guadalupe. Fertilizer
about the same as for
oranges. See 1/2 above.

Juwellanos, Matanzas pro-
between Matanzas +
Cardenas.

In garden of Casa Siren-
da at Central Nuevobois
Toward back side of
garden. Go down near
walk from N. end of house
about 20 yds. stands by
itself but not far from
other mango trees. About
25 ft high. Only Fili-
pino var. in garden.
Fruit not over medium
size, dull color, but
excellent flavor + good
keeper.

Filipino distinct in
form of tree, color young
foliage, venation shape
of fruit + their husk.

Fertilizing Citrus groves
2 1/2 lb 40 lbs per tree
(bearing grove)

3% Nitrogen
10% Potash
10% Phosphate

3-10-6 has been used but is
not enough

Avocadoes take more
fertilizer than oranges,
with good results. It
easily starved here.

Water requires about
same as Citrus.

Avocadoes should have
about 5-10-10 ratio.

Mango can be thrown
out of condition of die-
back by over fertilizing.

Avocadoes is a hog.

Thanks Cuban avocates
but in the world

How to Use Hawaiian
Fruits

Jesse C. Turner
Agnes B. Alexander

Hawaiian Gazette Co

Honolulu 1910

Malpighia glabra

Cherry or Barbados
Cherry. Plant about
8-10 ft high, bushy in form,
leaves smooth, deep green in
color, elliptical, entire
about 1 1/2 - 2 ins in length.
Flowers pinkish, about 1/2 in
in diam. Look like those
of the crepe myrtle. Fruits
spherical but sometimes

slightly jointed toward
apical end, about $\frac{3}{4}$ in.
in diameter, bright
red in color, glossy + smooth
on surface. Some stems
quite tender, juicy, mildly
acid in flavor resembling
that of a cherry somewhat
ably. Seeds flat,
not very large.

Some plants bear at
different times + all
produce several crops
a yr. Good for birds
& alligator lilies has
cherry taste.

Grapefruit
resembling very desirable

Santiago de las Vegas July 15 1914

Sida caribaea

Two types of this sp; one from
low moist lands has larger
loose bunches + slightly less
foliage, one from high lands has
smaller, + closely packed
bunches, + more abundant
foliage.

Albizzia kelbeck

Pithecolobium saman

Euterobotrium cyclocarpum

Ficus nitida

Tournefortia cattapa

Ficus religiosa

Mangifera indica

Borreria regia

Colpotherinus wrightii
Raystonia regia
~~*Palma real*~~
Palma barrigera

Mr Ladd's orchard
Fertilized citrus trees
with 30 lbs per year of
4% N
10% Phos Acid
10% Potash

Navel oranges produce
4 boxes per tree. Sold
for 2.75 a box. Ripen
from October on. Physic
grape fruit or sour
orange as stock. Think
one subject as good as
other. Prof East leaves
to grape fruit.

Utilising Cuban Fruits

Champola

This is guarabana pulp, evidently passed thru a sieve to make it smooth, and mixed with milk. Sugar is added, and the drink served ice cold. It is very rich. Large glass costs 25¢ plus a good cake.

Refresco

Piña fruit Pineapple is put in the glass & crushed with a wooden pestle. Sugar then added, water & cracked ice fine

Guarabana
Guarabana pulp, strained mixed with water & sugar. Good.

Nelados or Sherberts

Mamey

Locuma mammosa very
good sherbert, seems
to be almost pure
mamey juice, strained.
Only way I have eaten
mamey that I thought
it really good.

Guacabana

an excellent sherbert.
May have a little
milk mixed with it.

Sapote

Rather too sweet for
me. Brownish white in
color.

Mango

Made of almost pure
mango juice with little water
or sugar. Red + fine.

Havana, Tuesday July 21, 1914

A Visit to Tacón market.

guavas large
Many sapotes plentiful
Fine large aguacates
Sajodillas
Mamey St. Domingo
Mangos
Anos Tacos
Guaratará
Papayas
Pineapples
oranges
Bananas
Coconuts

Havana, Tues. July 21 1914

Called on by Roberto Luaces
Director de Agricultura

He says man is only
arranged that eats the
guavas and knows of 2
wild trees in Cuba.

Seedling grape fruit have
done remarkably well on
side of Puerto, he thinks
it possible that the seed-
ling may supplant the
wild tree.

Thinks there are 25 to 28
vars. of mango in Cuba.
Thinks Fulford came
by way of Europe, not
Mexico. Spanish army
officers went to eat &
puth in the early
days.

Some all vars. are
called mango in Puerto

name mango only used
here in Puerto.

Would like to arrange
for me to spend 3 or 6
months studying Cuban
fruits, Cuban Govt appoint-
ing a man to accompany
& assist me & benefit
by my work, Cuban Govt
to pay all expenses of
us both. Secy of Agr.
agrees to scheme.

Subpina type has
weak root system

2 Pairs mangoes from
Mr. ~~Gampon~~
Van Hermann

Mr. Van Hermann
wants Pauri & other
mango fruits from Fla.

2 Pauri trees
Litchi seeds
Laboticabas
Dambu

Dr. Vittle Papain
Mr. Dahlberg
Jobo tree

Columbia, Thursday July 23, 1914.

Isaiah Roberts' grove.
Has about 80 Pandanus
many trees 45 yrs old + 40 mul-
gobos. None of the latter bear-
ing, but some of the San-
dwich trees must have 150
fruits, others only a few. The
fruits are clean and attract-
ive in appearance, with
very few fungus spots. Says
they fall much less here than
in some other parts of the
island, normally 50-60 no but
sometimes not more than 40.
Thinks this is one of the
best mango locations on
the island.

He uses a new scheme for
ripening. Places the fruits
when mature in green color
is practically faded out of
shedded sides under a
cheesecloth frame suspended
about a foot above the
ground. Leaves the fully

exposed to the sun. Ripen
had perfectly in a few days.

Says Sanders has never
seen mango here until
September - 4 or 5 months.

The trees look very healthy
& show practically no fungus.
Altogether a very clean
lot.

Trees are frequently broken
by hurricanes. Has had
to replant some 3 times.

Avocado

Has about 2 acres of
very old Tropp trees.
If young for age I have
seen little fruit this yr
as it was blown off
by a hurricane. Thinks
the trees will need no
fertilizer in this soil. Some
of the trees seem back,
he thinks because they

are on a wet spot
says it takes 18 days
from time of picking to
disposing fruit for consum-
ers table in N.Y. Fresh
won't hold up that long.
Well market & in Adams
fresh grapes here late in
Oct. - few hang on until
February. Last yr packed
17 crates to a tomato
crate while in Fla they
pack a minimum of 27.
So he says

Nature mango here of
fresh mango mango 10 lbs.
says mango this yr
has all been ripened
with paper, which mangoes
are superior to.

Santa Fe, Friday July 23, 1944
H. S. Jones, place
Teyon - fl. buds, bloomed
but never fruit

Cacao fruit tree fruit
Dectre of trees about 6 ft
high 8 yrs old, look pretty
well

Sapote, Quets, trees about
10 ft high 8 ft spread,
bearing few fruits

Garcinas of several sp,
all doing finely
Guinea grass

San Pedro, July 23, 1914.

San Pedro Development Co,
1200 acres in grapefruit,
150 in lemons this yr.
200 acres lemons most
of them set out. New
packing house will handle
this yr 600 boxes fruit.

Mr. Rodgers, stud youg dis-
eases. Anthracnose one
of commonal fungi here.
Cannot attack fruit unless
there is an abrasion in
the skin. Not serious in
connection with the fruit.

Most serious pest on trees
is Fla. red scale, wh just
now is causing them a
good deal of trouble.
Also have scab

K. Dahlberg.

Fuca 88 many
necia gersona
Cambodian tree 4 yrs
old 10 ft high bore 200.
fruit this yr. This is its
1st yr of fruiting. Last yr
bore 3 cups of fruit this yr
only one.

Bennett Alfonso

Mr. Dahlberg wants fruits
& economies. Jaracinas.

Mr. Geo. Durham

Columba
fertile grape fruit trees
with 3-12-28 pounds
for early fruit and lots
of it. On very gravelly
land. Early April
triumph. Begins shipping
early in September.

Has Pineapple orange tree
with navel bud sports
on one limb in green
state they are much
sweeter than normal

fruits, but have seeds.

Triumph & Walters 2
principal vars. of Grapefruit.

Has about 5000 young
grape fruit trees of the
#5-40 for them. 1/2 in
old 4-5 ft high trees
about 1 in. in diameter.

Trees sometimes produce
10 boxes grape fruit

in Greg. Palmyra
Santa Rosa

Wants budwood of Guate-
malan avocado from
Miami.

Has nursery of avocados
Buds mostly of a few
Palmyra. Uses only
buds near ends of
young branches. We have

started into growth.

Trap tree at / on old
about 3 ft high and
very compact & bushy
in growth

at Los Indios 84" diam fr
around Cabyagua 20-40.

Thrucaia no good
to shade mangosteen.

Key West Grape
Carambola Jack Fruit
Amini Bitholletia
Economic

Geo. F. Young

Mr. Kinley, Isla Pinos
photo of grafting mangoes

J. C. McPherson
Los Angeles I. of C.

Walter Dahlberg
possessor of S.P.

H. L. Walter,

Miss'l Div. Bureau of Chem.

Gen. B. Schneider
Chemist, Patent office.

R. K. Brattin

Bur of Plant Industry.

Bitygia (Atta insularis)

Best Cheno
nest Mamey
Bucobichelo

L. H. Toussant
Rio. Fla.
has bearing date palms &
slope just north

Crop in Jan
anthers in Sept
occasionally more in Dec.

2 Vines 12 yrs old

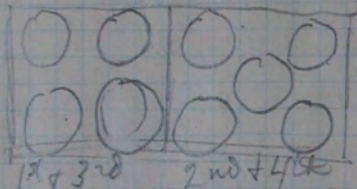
"Key West Grape"

June, 2 buds bunches
fairly compact, 6-8 long ones
not very juicy, meaty.
one bunch 7 lbs.
Stem firm.

F. C. B. Hodgdon
317 Duval St
Key West

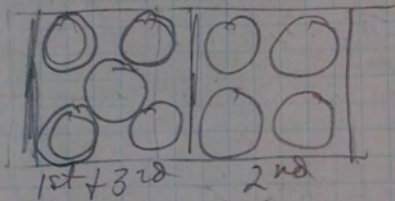
28-40

usually 36 on average
1 bag to Tomato crates



36 pack

Pack space between the
fruit & little air blown
Use no wraps.



28 pack

Samuel Filer
Miami

Different ways for
localities.

Should Fertilize ^{early summer} July Aug
Spray
Budd

Take all leaves from
under tree in fall &
bury them

Budding

July - August - September

Select straight, round bud
stems, second growth, from tree
not in flush of 1st growth &
well mature. Place on water
over night.

Put buds with very sharp
knife. Cut bud with little
wood on it. Cut bud
straight, not with rounding
cut.

Paheri
Cambodiana
Gummi
Sanderche

In waxed paper in tropical
in summer

1 lb Beeswax

1/4 lb Rosin

Mulgoba 8-12 yrs
coming into commercial
bearing.

old gale tree has
been cut back twice by
fire & would not get

Budding
Middle Nov - December
July - Aug. mangoes

Mamk, Aug 3 1914
Cellon's grove

Now shipping Mulgoba
Bays from local growers
at \$1.00 dozen, gets 50¢
each FOB. Large large
quantities in tomato
crates holding 6 baskets,
6 fruits to the basket.
For smaller boxes make
to hold 6, 12, 18 or 24
fruits.

Thanks Mulgoba trees
will not come into
commercial bearing until
8-12 yrs old, after care
given them.

Says old gale tree
stopped bearing be-
cause it was pruned
back 2 times and did
not get time to get
its new wood up to
bearing age again.

Shaved one tree
or w/ one branch was
bearing well. thing was
old, wood. other half
of tree had been broken
off by hurricane &
came out again and
though as big as
the other was not as
old & not in bearing.

Says Red banded
thrips are very bad
in fall. mangoes that
are defoliated will not
fruit. Almost kills tree
to defoliate it.

Thinks that are 2
strains of Bennett

Planting mango seeds.

Removing husk saves 3
weeks time. Can find 1 m to
6 wks for planting

5 lbs gold dust
50 gals water
1 1/2 pts. Kerosene to barrel
for white fly

Cellars Tues morning

Shipped Hadens
To New. U.S., it
was eaten 18 days
after it was shipped

10 days without rain
+ mango will come into
bloom. If rains come
flowers will drop, & after
10 days more dry weather
will bloom again

Plant out or something
around base of tree
keep out water in wet
seasons

Wet yrs

Cultural. Good
keep ground dry
spray from pipe thru
winter to keep off

When mangoes are packed
"free" but not get
sweeter they often
better than when allowed
to ripen on the tree, &
fruit does not soften
around seed

Reap plder Aug 8
Filipino mangoes 6 trees about
9-15 yrs old ^{from on tree}
picked 50 lbs put this up &
more on tree. Cuban seed
more resistant to fungus than
Malagosa

Malagosa bloomed in Jan
& again in early April.
fruit got weedy all
dropped by blights when
size of marble or size
of walnuts. Filipinos
fruit stayed on

1000 lbs. Peruvian Guano
 700 " Cotton seed meal
 250 " Low grade sulfate Potash
 100 " nitrate of soda

Litchi fruit
 Fleshy matter 70.19%
 Skin etc 11.69%
 Seeds 18.12%

Chemical
 Sugar (principally levulose
 or fruit sugar) Dextrin
 also present 16.061%

Acid estimated Tartaric
 Malic also present .961

Albuminous substances,
 Gectine gum, fat 3.478

Ash .320
 Fleshy matter soluble
 in water 20.760

Water 76.070

Insoluble substances
 (not estimated) & loss 3.170

Bul. Mus. Informations, Trinidad
 Jan. 1907. No 53

Aug 10-1914 Mexi. Homestead

Afonso type susceptible
to Anthracnose

Mr. Krom thinks Bennett
excellent in quality

Thinks Sandwiche & Cambod-
iana two best commercial
varieties at present

Fertility

5-6-8 in summer

5-5-5 " winter

6-8 lbs to the tree

grapefruit

Mr. Krom lemon-fruit
not bad

grapefruit - better
but not so bad

on some orange never have it

rough lemon stick out
above grapefruit top.

BAY BISCAYNE CANNING CO.
 MANUFACTURERS OF
 GUAVA JELLY, MARMALADES
 AND TROPICAL FRUIT PRESERVES
 MIAMI, FLORIDA
 C. T. MCCRIMMON
 PRESIDENT

... smells very
 ... slit back
 ... these are
 ... I left
 ... to the
 ... has
 ... really true
 ... increased
 ... limbs with
 ... in line

... grapefruit
 ...

... every grape
 ... is best thing

Aug 10 1914 Mon. Homestead

Afonso type susceptible
to Anthracnose

Mr. Krom thinks Bennett
excellent in quality

Thinks Sanderson's & Cambod-
iana two best commercial
varieties at present

Ferlitya

5-6-8 in summer

5-5-5 .. winter

6-8 lbs to the tree

Grapefruit

One rough lemon - found
not bad

One pomelo - better
but not so bad

on some orange never have it

rough lemon stick out
above grapefruit top.

It is much sap & smells very
strong like. It is
killed at one & there was
be no fruit now. It left
the soft seeds & also the
cambium layer. Has
argenticated healthy tree
with sap from diseased
tree. Fruit limbs with
flowers of superior line
has anthracnose

Whole or scap & orange in

major soil. sugar

Black Leaf to

Finely crop tobacco dust
is best thing

Graft from Dec to Feb



Stock 3" in diam

4 1/2 lbs Magnesia Sol
Sulfur
100 gals water
for grapefruit

Shrub mangoes will
grow well by Key as
climate is dry

Haden

5" long
3 3/4" broad
3 1/2" thick

Wt about 16 to
20 oz.

Color bright orange yellow
nearly overripe with
crimson scarlet

Pulp not quite so smooth
& melting in texture as
mullaga, & flavor is not
quite so fragrant &
aromatic as mullaga.
Has a snap that mul-
gaba lacks (Beebe)

Flavor more finely
blended in mullaga

Haden has a strong
rank dry flavor that is
attractive to a mango
peel.

Skin very thick



1003

Nadey will outtell Mulgoba
in the market.

We must learn requirements
of mango.

Should ventilate interior of
heads & allow access of air.

1 st Mulgoba	Baheri subject
2 nd Nadey	to trip &
3 rd Bennett Alfonso	qualified, if not
	for this it is
	best male
	mango

Cambodiana
1st & 2nd are only ones with
planting.

Amrai is clingstone
Haden as early as Cambodiana

3 1/2 am

11 Phos

8-9 Potash

20 lbs for tree

12 1/2 " " a modern
any cases 3 times per yr

In Nov Feb & May

Chas T Simpson
Little River Fla

X

In 1904. Temp. about
24° outer limbs hurt
but

Very old seedling *Mulgola*
Began blooming Jan 2
killed in May
Began to reappear in May &
was still on
killed back in 1904

~~Julia~~

~~Kestapel~~
~~Salinar~~

~~Candadiano~~ ~~San Diego~~

~~Parosela~~

~~Candadiano~~ ~~typ~~

~~Peto~~

White Alfaca

~~Parosela~~

Mulgola

~~Mulgola~~

~~Kochrohu~~

~~Julia~~

~~Parosela~~

~~Talpa~~

Rajpuri

Gordon

Calypino

Madras

~~Parosela~~

Mulgoba 12305
 Naden 29333
 Paheri 8730
 Amiri 7104
 Cambodian seedling 1645

grafting
 began apple will not
 on pond apple

Thurs	Aug 6	at garden + lab
Fri	7	Callon's kitchen
Sat	8	Roop
Mon	10	Homestead
Tues	11	Callon's Room Suite
Wed	12	Elliot's Key
Thurs	13	Coconut Grove
Fri	14	garden
Sat	15	Key West

Aug 16 1914 - Tampa - Sunday

Aug 17 1914 - St. Petersburg.

Aug 19 1914 - Oneco - Wednesday

Philippine, long
very fibrous fruit,
flavor inferior to manda
of Cuba.

Yogal, Rhog.
Flesh bright orange,
little more fibrous than
Mulgola, flavor slightly
sugary, resembles
Alfonso but ranker.

Langua
Flesh orange yellow,
flavor good, almost with-
out fiber. Free stone.
External color yell with
green. Good.

Langua Berani
Flesh deep orange. Flavor
superior to Alfonso seed
large, slightly bitter
near skin. Not much good.

Rajpuri
yellow, flavor rather
weak, not very choice

Hamaraca
flesh light orange,
flavor not extra good

Johannes Johnston
Table XVI

Imperial Gazetteer of
India Vol XXI, 1908
p. 378 Saharanpur
Rainfall 38 ins.

27000 Carlisle
Washington Navels
in 1913-14.

Roselle recipe

See Philippine Agricult Review

May 1914

See date revised in same no.

2 cups sugar

1 cup water

1/2 " mango juice

for mango see, as Mrs.
Simmonds makes it.

Look up Inventory cards
of *Luzoa mango* & correct

Contributions from the
U. S. Natl Herbarium
Vol 18, part 2.

New or Noteworthy Plants
from Colombia & Central
America.

Mango seedling Variation
Bulletin of Misc Information
Trinidad no 156
Oct 1907.

Re memorial to
Dr. Franceschi

Krome
 Simpson
 Gifford
 Gately
 Mosler
 Dr J. C. Brannon

2	Mangos Chinos @ 25	.50
3	" Filipinas @ 10	.30
6	" " " "	.60
1	guanabana	.30
1	Ahuacate	.10
2	Anona @ 15	.25
2	Pitayas @ 10	.20
2	mango mangana @ 5	.10
3	mangos anguilla	.05
1	Mamey Colorado	.10
4	Sapotes chicos	.15
2	Mangos @ .05	.10
1	bunch Mameyillos	.05
1	Mamey Sta Domingo	.15
		<hr/> 2.89

4 Aguacate

2 Mango

1 Aguacate

9 Marañon

5 Anon

14 Granadilla

3 Guayaba

3 Kiwies

8 Maracá St. Domingo

7 " Colorado

10 Mamorillo

11 Fruta de Bomba

6 Nespere

12 Caramita

13 Tamarindo

Platano
Coconut
Fog
Guapefruit
Kiwi
Orange
Pine

Get small alarm
clock before next trip.

also glue
tagging machine

A Ryerson
428 College Ave
Burlington Cal

12 Aguacate

27 Mango

1 Aguacate

9 Marañon

5 Amor

14 Parabilla

3 Guayaba

Skibos

8 Mamey Sto Domingo

7 Colorado

10 Mameyillo

11 Fruta de Bomba

6 Nispero

12 Caimito

13 Tamarindo

Platan
Cocomi
Frag
Guajaf
Chis
Q
Pa

Get small alarm
clock before next trip.

Also glue
Stapling machine

K A Ryerson
2428 College Ave
Berkeley Cal

Experiments in Shipping
Budwood

Santiago to Cuba July 12 1914
at 7 a.m. I filled the
glass jar in the container
with ice water and small
lumps of ice. No budwood
was put in, but a sheet
of corrugated board was
put around the glass jar.

At 10.30 temperature in
container was 62°. Ice all
melted but water cold.

at 1 p.m temp 67°.

H. C. Kenrickson
U. S. Rubber Bldg
Broadway 158
New York

~~ook Book
white cloth
in plates
in films
w/loop do.~~

ans
exp forks

Experiments in Shipping
Budwood

Santiago de Cuba July 12 19
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H. C. Henriksen
U. S. Rubber Bldg
Broadway 158
New York

~~Cook Books
white cloth
small plates
Cray films
Bulldog Co.~~

trans
map forks

For Herradura
Fizocartil del Oesto
Thurs. 6.55 a.m.

Jan Mrs Baxter
Care PBO

? Shand
Mrs Fairchild
Camt Det

Send home for scrap book
Docuero Nacional

Dr Leages
Dr de Agila.

Willis E. Hurd
U. S. Weather Bureau
Washington D.C.

Rev. Robert E. Wood
American Church, Mission
Schang, China

The Most Popular
Home Song

Hinks Noble & Co

31-35 West 15th St
New York

For Cam + Dorothy

~~Tape Line
Tomology Boxes
Scales
Budding Knife
Pocket Tool Haft~~

13th + N.Y. Turner Shop

Send experimental shipment
of mango budwood to Hartless.

Brooks

gone

with Bush

at
Tool Haft 1.29
Pliers 75

~~Tape Line~~

~~Scales~~

~~Dead match paper~~

~~Budding Knife~~

~~Budwood Shipping Case~~

~~Diseases of Tropical Plants
Melville Thurston Cook
Macmillan & Co.~~

~~Guide to the West Indies
F. A. Ober~~

~~Spanish Dictionary~~

July 5 1914

Have on hand ABA

checks nos. D2148885-

to D2148887 and

D2148890 to

D2148899

- 1 traje
- 1 pijamas
- 4 camisa
- 9 collars
- 3 pañuelos
- 1 drawere
- 1 su cap

Drunkent
 Best knife
 Macpherson
 over the Binet

2.70

- 1 traje
- 1 pijamas
- 8 camisas
- 9 collars
- 1 media
- 3 pañuelos
- 1 calcancillo

