

U. S. Department of Agriculture.

FIELD DIARY

OF

Mr.

Charles H. Bennett

Specialist in Forest

(Official title.)

1918

Lepidoptera

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J. F. Houston

Secretary of Agriculture.

8-833

N.Y.

Wm. O'Connor

231-233-E. 24-St.

Look up + comp. Eu. &
Am. species of Solonobia
of genitalia for Eger

Burck's paper on
Micro-Lep. Classification
(Presidential address.) to
Eger

Apr. 1st 1.65
 Station Porter .10 4.85
 Car fare & Station .05 3.10
 Supper - En Route 1.25 2.50
 3.05
 5.20
 1.25
 Pullman Porter 1.40 18.70

Apr. 2 Ithaca

Breakfast .75
 Dinner .75
 Supper 1.00

2.50

Car fare .25

Hotel Porter .10

2.85

Apr. 3rd Ithaca

Poc. 75

Dinner 1.00

Supper 1.00

Car fare .25

Hotel Porter .10

3.10

Room Room

2.50

431 East Seneca St.
 W. P. Alexander.

Apr. 4 N.Y.

Pullman Porter .25

Car fare - N.Y. .20

Bk. .75

Din. .75

Supp. 1.00

Hotel Porter .10

3.05

~~W.P.~~ Apr. 5

Bk - N.Y. .75

D. - (L.D.) .75

S. - N.Y. 1.00

Room 2.50

5.00

Hotel Porter .10

Station .10

5.20

Apr. 6

Pullman .25

Porter .10

Wash

Eucosma Sonomana

is the dark ^{red} sp. from
Cummings



Hopk. 13269a, 12370, 12370
12369.

E. cocana K. is near
above (from H.C. Fisher)
in markings
betw. Sonomana K.
& Lobana K.

E. lobana K. =

Hopk. 13276a in
my series but dark parts
being a trifle darker, in
Kearfoot's type (N.Y. Museum)

~~Eucosma~~

E. Jozana. Syn.

(Edmonoidana Dyar)

J. Dyar sp. Long. trans.

to Eucosma (?) =

~~Eucosma~~

Paradenana = same as

Sp. in U.S. Nat. Museum

Det. by Wm. a. E. duplana
of Europe

Wm O'Connor

wants U.S. Govt. Adventure

Enitua Jozana Bearf
in pattern
mid. way betw.
montana Busck X
edemoidana Ozar
but rather broad wings.

California Trip. 1918

Monday - June 3/18.

Leave Wash D.C. - 9:10 A.M.
BIO.

Tuesday - June 4/18.

Arr. Chicago - 8:40 A.M.
With Walter Roach - all day
to Evans to visit Roach X
Mr. Fenwick.

Leave Chicago - 7:35 P.M.

Wed. - June 5. En Route.

Thursday - June 6.

En Route
Change to Canyon car
this night

June 7. Friday
Ar. Grand Cañon
(Old Land)!

Gracilaria leaf nines in
desert rock along river of Cañon
A number for alcohol preserving
Make a narrow tortuous linear
river in earlier stages widening
out to a large balloon like blotch
later covering nearly entire
leaf. One larva to the river.

Conductor lost my
transportation. Am in a bit
of a fix.

Took Harriet River Drive
in the afternoon \$5.

Leave Grand Cañon
9 P.M. - Arrive Williams
12 P.M.

Sec. Geo. J. Byrne
Asst. Pass Traffic Mgr.
Ar. & Dep. Fr. Los Angeles

Hardgrove - Milwaukee & Co.

Fr. Harney - Mission House
Wash. D.C.

~~Leave Los Angeles 11:30 P.M.~~
~~Saturday~~

June 9 - Saturday
Ar. Merced 1:30 P.M.
Ar. St. Patrick 7:30 P.M.
Gracilaria

10 June - Monday

11 June - Tuesday

Yoruba man falls

nothing of any local importance
Some empty *Mimusca* mines in rock

12 June Wed & Thurs.

13

To Lake Tenaya - overnight
Lake

Recurvata milleri

^{Larvae} about half grown. Pupations
rapidly in 1917 needles. Snow
still on patches along trail but
rapidly disappearing. Patterson
says season is late & if
Recurvata issues this year
will be about Aug 1st. Can
see no reason as yet why it
should take more than a
year for a generation.

Pure water growth of larvae
& report on condition during
July. Larvae in alcohol.

Mosquitoes terrible at &
near the lake. Several males
taken from a swarm over
some small pine at edge
of lake. Bread in nestling
snow & water at edge of
lake.

See several of the lodgepole
pines along trail several
nodules of an *Ectria* sp.
(near or possibly = *albicapitata*)
Larvae young in ^{spring} nodules
at edge. Patterson will
follow up & send material
for rearing later in season.
On the short trail along
the ledge, a leaf tier on the

bay (California bay). Some
✓ for rearing. a couple in
alcohol.

A leaf miner in the bay.
Makes a mine like Mytilus
mine ^{often} widens out slightly
✓ into a tent like form toward
the end. Rather rare. Seen
only on a small tree
below Mirror Lake.

In higher altitudes
a Gracilaria leaf miner
(blotch mine) upper surface
✓ on the small leaved scrub
oak (Q. Sadderiana?)
Some for rearing & alcohol
Quite common above
7000 ft.

~~Trident (June 14)~~

Issued in trunk of lodgepole
pine common & evidently
quite destructive, a number
of trees 6 in. or more in diam.
~~often~~ completely girdled. Resin
flow very heavy. Larvae
when found ^{plentiful} quite small.
No pupae found. Many
pith masses empty. Patterson
will follow up, rear &
send material. 1 Larva
in alcohol

Friday (June 14)

Today opened the nodules of
the *Ectria* sp. collected yesterday
& to my surprise found in them
two live pupae. 1 contained
an empty pupa skin. The
rest were empty. Must
be emerging now. Shall
go after them tomorrow.
Got more of the leaf-tier
in Bay along the Yosemite
Falls trail. Went out this
am. with Jno. & Mrs. Patterson.

Expect to get something but
parasites from the leaf-miner
on *D. saddleiana* collected
yesterday. none of the mines found
contain anything else. Tanned
skins in alcohol.

am. Sat June 15/18

Ectria issued from one of
the nodules. Looks like *E.*
metallica Burck. Pringed.

Explored high around Yarnal Falls

Sunday June 16/18
Yosemite Camp. Rest
day - Rain.

H. E. Burke. - Los Gatos, Calif.

Send J. E. Patterson
Yosemite Calif.
Several boxes for insects
also want Alcohol. 95%.

See Miller about
having Patterson come to
Ashland while I am there.

^{Robt}
Mrs. Stone's - Studio
1002 - Kohler & Chase
Frisco. ~~Studio~~ ^{Bldg.}

Miss Katherine Fiske
(violinist)
Send postal to look at
"The Lady of my Dream".
don't know names of Cellist
Mr Cecil H. Stone
Market 6597.

Tell him Mrs Stone sends
regards & that children are
well

Mrs Bristol.
send postal

Miss Palston.

Monday - June 17/18
Leave Yosemite 7:15 a.m.
Change El Portal.

" Merced. (Dinner)
" Tracy
" Miles
Arr. " San Jose.
Hotel Los Gatos P.M.

With Alexander

" Miss Gray
" " Canby

Tues. June 18/18

Visited Burke

Collecting with R.D. Hartman
up 2009 Canyon in Auto.

Leaf ^{folded} ~~less~~ on Cascara.

(Common) for rearing
Mamestra mima in thick
grasses but no larvae

Phylloxera fulvella
common. Some for alcohol

Cameraria (?) upper
surface mines in
Alder (Creek Alder)
for rearing.

Wed - June 19/18

With Hartman in Auto. to
California Red Wood Park.
7 A.M. - Dinner at Park

Cameraria sp. in wax
Myrtle upper surface.
Common. ~~Admiring~~
partial defoliation. Quantity
for rearing. Alcohol. 1 adult
captured emerging.

Cameraria sp. (upper surface)
or Vaccinium (
Common. Quantity for rearing
+ alcohol. 1 more emerging
captured.

Cours of knot-Cone pines on
road to Park. Heavily infested
with Phycitid(?) larvae. A
quantity for rearing. 1 parasitized
larva & several healthy larvae
in alcohol.

Musmonia in oak.
Samples of work. No larvae
now. Have all gone

Hold in Frisco

Pamona.

June 20 - Thurs.

With Burk & Hartman at Station
Sent material to Wash. (Fallis)

Leave for Frisco 7⁴⁰ PM.

Said Miller & Burk
a list of values. Thearf
Eucrasia and Eretia
collected from West with
localities & dates collected
Arrive Frisco 9⁴⁵ PM

June 21/18
Whitman California Academy Science
E.P. An Dusee.
Golden Gate Park

Leave San Francisco
10⁴⁰ PM

June 22 - Sat.
arr. Ashland Oregon
4⁴⁰ - P.M. Hotel Austin.

June 23rd - Sunday
at Ashland. Spent day
with Miller.

June 24th - Monday
Went over miller's problem
with Miller. The association
of the middle miner &
Dendroctonus makes control
of miller an important problem.
Important to preserve the
large infected Lodgepole
area in Grouse
(Tuolumne meadows)

Work up with Hopkins the
project of control by parasites.
Go over parasite data with
Robert & suggest project of
Robert & ~~me~~ me taking
making a station at Grouse
& undertaking a control project.
Control of miller will mean
in large measure control
of *Dendroctonus* beetle as
two problems are interrelated.

Miller wants me to go
with him to Portland Oreg.
Shall try to arrange for trip
Wednesday

25 June - Tuesday
Went Miller + Spencer

Hotel Litha Springman
Portland

26 June - Wed
To Portland with Miller
to meet Jamieson + go over
Spencer trouble along Coast

U.S. Forest Service
Back Bldg
Portland Ore

See Charles G. Bates
U.S. Forest Service
Federal Bldg, Denver
about wetland infiltration
Halsey + Colo.

Get in touch with
G.A. Pearson
Fort Valley Exp. Sta.
Flagstaff Ariz.
(Forest Service)
on Boettcher

27 June - 1918 - Thursday
Arr. Portland 7:30 a.m.
Hotel Imperial
visit with Jamieson

28 June - 1918 - Friday
By boat with Miller to
Astoria (Giangiana) Arr. 7:45
am. Astoria 5:30 p.m.
Hotel ~~some~~ ^{delighted} ~~and~~ Spencer

along Washington side of river
Especially near ~~Brookfield~~
Brookfield. Trees have been
completely depoliated & are
again leafing out but tops
are dead & trees look very
sickly. Some dead.

Sat. 29-June 1918.

by train. (Blind Slough) did
not make it. Found several
spruce trees near Astoria (on light
shore town) which had been
depoliated. Some were dead
others leafing out again
but sickly. Also many alder
found young larvae of the
spruce bud moth (*Hametia*
fumiferana Wack.?)

Miller will follow up to
ascertain life history on
Oregon coast & get rearing
material. Larvae now very
small & have just commenced
feeding on the new needles
of spruce. Astoria by boat
Portland 2 P.M. (3 P.M.
actual time)

Arr. Portland 1:10 P.M. via Auto
Boat broke down at St. Helens.
Notes from hand of C. C. Linn

Sept 30 - Sunday

defestation of spruce bud moth
Especially severe at

Skamokawa (?) [Rain Point

noted on trip from Astoria to
Portland. above Brookfield]

Send A. J. Jarmiche & Miller
reference to fumiferana

Get brief case #9
like Miller

Leave Portland
Tuesday July 2/18 at
7:10 P.M. - 15

Arrive Spokane Wash.
6:45 A.M. - July 3 -
Wednesday.

Train out leave 7:15 A.M.
arr how late arriving morning

at Sand Point crossed a
wonderful lake surrounded by
high mountains.

Quies out of Spokane show
many dead & dying mammals &
birds. Looks like Phycitid work.
Entire coast region very dry &
forest fires everywhere. Especially
bad in neighborhood of Pullman.

Write Jim Davis

~~Shirley Davis~~ Wyo

Kirby Wright

W. W. Wheeler

Bern. Stern

Dist. Mains. Co.

2 Lumberman

July 5 - Friday

Put us off at Seneca Neb.
Dine there 5 am. - Arr. 7:30
Took local to Halsey 8 am.
Arr.

Went over nursery at Halsey
with Supervisor Higgins. Found
Bushnell flying by thousands.
All trees (mostly scots, yellow
jack pine) heavily infested. Most
of first generation now issuing.
Most of second 1917 gen. (overwintering
gen.) issued in late March.
Emergence dates earlier this
year than usual on account of
warmer & early spring & work of
sp. identical with that of
fr. hawa.

~~Train from Halsey~~

Planting stock ~~imported~~
imported into nursery 1903
from Minnesota (or Wisconsin)
also Michigan
~~perennials~~ (1 & 2 yr) & elms
sent to Ft. Bayard N.M.
from Halsey. 1908.

Leave Halsey, 5 P.M.

See Col. Bushnell in
Wash. D.C. - Medical Corps
about Ft. Bayard conditions

Arr. Omaha 7 A.M.
July 6th - Saturday

Resumed train 6¹⁴ P.M.
Leave Omaha
8 July. Monday

Rev. John Drille
2517 Logan Boulevard
Chicago.

Fr. Julius P. W. Vos
St. John Berchmans
Church
Chicago

Fr. J. P. McGuire
White Fathers.
Ordained Pro-monstrations
6427 Ridge Ave.
Chicago

Lice Notes.

du Doymmo - Med. Jn. Vol. 242.
203-212 - Feb 1915.

(From Lab. of Scientific Committee
in Military Sanitation) By A. F.
Lucina - Samuels & B. P. Ebert.

Recommend Crystol - Soap Solution
as most effective for clothes.

- Applied with brush & dipping

- 10% water solution of

Savonaptha Soap. 65% (Naptha "L")

Crude Crystol (100% Carbolic) 35%

10% S.F. = 3 lbs. to bucket of water.

do Vol 242 - Jan. 1915 pp. 74-80
by J. E. Rapchensky.

"Results of Experiments of Application
of various chemicals against clothes
lice".

Bed Bugs.

1 Pt. Wood Alcohol.

10% Corrosive Sublimite.

Sporey. Synt. Formulae to the Effect.
washed with Benz.

Have Louse Liquid tested.

A. D. Peacock.

"The Louse Problem at the Western Front"

Brit. Med. J. June 3, 1916 p. 784

Karaffa - Korbutt (K. B.)
& Mastitski B. S. "Sanitary
Organization of Halting Stations
(Étapes) at End of March"

vojenn. med. J. 1. 200 p.

1915, CCXIV - Med. Pt. 42v-43x

(6 cuts in text)

describes delousing
~~with machines~~ & experience with
Russian armies.
Halting station of "Praha"

Brink, W. A.

Vojenn. Med. J. Petrogo.

1915, CCXIV. Med. Spec. pt.

440-449.

"Traveling back of the 30th
Sanitary-Hygiene Detachment
of the 18th Army Corps"

Describes back - tent capacity
of washing 5000 men - 2 days.

1 shower down 3/4 to 1 hr.

Put up in 2 hrs.

"Killing External Parasites on
Army" Dr. Sherwinor

Chief. Ent. Lab of Dept of Forestry

"Novoye Vermia" Dec. 8 (21)
1914 p. 5

Describes "Malinin's" liquid

Persian powder

Russian Turps.

Kerosene

Carbolic acid

Essence of Cinnamon

+ Cinnamon oil

Does not injure human or fabric
good for all parts
destroy bacteria.

Voyenn. Med. Jn. Vol.

CCXV - Mech-Apr. 1915

pp. 323-327

Dr. H. A. Gurevitch.

Stain chambers for disinfection
+ Disinsection "

"The influence of Temperature
atmospheric aridity + saturation
of cloths with various
substances on the viability of
adult lice "

T. M. Engelhardt.

Bull. de la Société Entomologique
de Moscou. Vol. 1. 1915 p. 164-170

Humidity experiments +
use of Tar preparations.

Destruction of Lice of Clothes

By Cresol + Soap Solution
Emulsion of Cresol. By W. A.

Baert. + Lieut L. L. Loyt.

R. A. M. C. Bit. Med. Inf.

#2991 - p. 479 Apr 27, 1918

Dry heat or Water 60°C .
kill Eggs + Lar in 15 min.

20" steeping in 2% solution
Lysol or Cresol soap effective
if temperature is not below
 50°F .

F. H. B. Texas Trip

Leave Wash, D.C. 10⁴⁵ P.M.

So. R. Ry. - Aug 20/18

Aug 22/18

Arr. New Orleans La. 10⁴⁵ A.M.

Leave New Orleans 7 P.M.

Aug 23/18.

Arr. Houston 6³⁰ A.M.

Hotel Cotton.

F. H. B. 702 - Carter Bldg.

Aug 24/18.

Houston.

Aug 26/18

Leave for Galveston 10 A.M. in H. B. Ry.

Back to Houston 9 P.M.

at G. examined docks & landing place
for possible importation & introduction of
P. B. B.

Aug 26/18

Houston.

Aug 27/18

To Anahuac Tex. 1:30 P.M.

By auto with H.S. Hensley

Arr. 8:00 P.M. - Hotel Anahuac

Aug 28/18.

Anahuac & vicinity.

1. ~~Adm.~~ By boat with H.C. Hanson
to Delta - Trinity River - Top. Anahuac
Examined following plants.

Spartina cynosuroides
Iva frutescens
Acnida canibina (Swamp)
Kosteletzhya althaeifolia
Hibiscus incanus

2. Town of Anahuac

Malvariscus drummondii
Sida spinosa
S. rhombifolia
Malvastrum americanum
Hibiscus syriacus
H. incanus
H. esculentus (Obra)

- III. In afternoon with Hanson,
Joe Moore, E.L. Dixon visited
to W. shore of Turtle Bay.

Examined

Hibiscus incanus
all results negative. Don't
think last locality would be
possible place of infestation. About
12 mi. from nearest known seat of
former infestation with barrier of
small woods between. Don't think
any of Malvaceae would make
suitable food plant for gossypiphila
on account of oil content in food.

Collected some *Ecthris* (bud with
in tips of P. Tarda. The dead
terminals largely due to beetle
attack (bore). To Falls Ch.

Pyralid in Trumpet vine (*Tecoma
radicans*). In alcohol & to rearing.

Aug 29/18

On Prairie adjacent to O.R. Cockrill's
1917 Cotton field. - Acahuag ^{Tex}

Plants Examined.

Croton capitatus

Baptisia Bushii

B. sphaerocarpa.

Dactyloctenium longifolium

various Compositae.

Tortricid Larva in Seed pods of *Baptisia*
superficially similar to P.B.W.

Aug 30.

Locality - (Smith Point.)

Plants.

Swamp So. of W. Mitchell's house - *Hibiscus incanus*
- *Mouardia* sp.

on P. Nelson's Farm. - *Helianthus* sp.
Mahonia *drummondii*

near roads 1917

Cotton Field.

10-Volunteer Cotton
Glottidium
resicarium.

No P.B.W. in volunteer cotton.

Tort. stem borer & Gelechiid larva

& 2 spp. T. sp. pupae in *Helianthus*
flower heads.

Aug 31.

W. Mitchell's Farm (Smith
Point). - about in center of
highest 1917 P.B.W. infestation

Hibiscus incanus.
Olera.

Sept. 1.

Sunday.

Left Point with Dr. Hunter,
& Party. — Anahuac.

Sept. 2.

disrupted Plants for P. B. W. near
1917 fields in vicinity of South
Bayou.

Sept. 3.

Vicinity of Silra Frank's Store
2 mi. E. Wallersville.

Rain. P.M.

Sept. 4.

do. Sept. 3.

Amaranthus hybridus

Croton capitatus?

Malvaceae Drummondii

Kortteghya althaeifolia

- Voluntary Cotton
in vicinity of South Bayou.

Sept. 5.

Houston.

Sept. 6.

En route Home

Sept. 7.

Scouting & inspecting Malvaceae
from Anahuac to Highland
via White Ranch, Sea Breeze
Store, South Bayou.

Road D. B. to

White Ranch.

Road Highland to Store

Store - town

H. in canna

Kortteghya

H. in canna?

Kortteghya

Okra palata

Okra

Hibiscus syriacus

Road
Shiraz & Anahuaq — Okra
H. incarnus

Sept. 8.

25 large volunteer cotton
plants taken by Jones from
various 1917 infested fields
Examined, no P.B.W. or any
signs of same.

A small Getachid larva
in one Boll. (alcohol Hämisch II.)

Registration Card - just Recd. Mailed
R.C. Althouse.

Twelfth Bayou and More,
Marion & Dismal - high collecting
No Supper at 11 P.M.
Hotel.

Sept. 9

With Marion & Dismal. Examining
Okra in vicinity of Eagle.
4000 plants personally inspected
Badly infested with Chloridea ochracea
negative. Sept. 10.

Adm.

With Hansen on inspection
trip to head of Lake
Charlotte. Fine insect country
with very varied flora.

Cephalanthus occidentalis

Hibiscus incarnus

H. militaris Pers.

Mafraricus.

Okra

Kosteletzhya

Hibiscus (etc) within 200 ft. of
cotton fields. A highly infested
district in 1917.

P.M.

With Hanson & Hankamer
visited the ~~following~~ ^{several} places in
the locality.

One flower (2 large buds)
H. cypriacus (3)

Radius of 4 miles.

Sept 11-1918

To North Shore of Lake
Charlotte with Dixon &
Moore for a days work with
Hibiscus militaris & an
all night collecting trip

Traf mines in *Lepidanthus*
occidentalis.

Exam. all pods, buds &
flowers of *Hibiscus militaris*.
No trace of P.B.W.

Galichia sp (*Hibiscella*
Busck) rather common.
Not in hars. but green ~~larvae~~
occasionally in dry seed pods,
commonest in old flowers in
which it had fed & pupated.

2 specimens of a pinkish
tort. larva in green pods.
of H. militaris! in alcohol.

Gelochia litiscella not
in H. incanus.

light collecting very poor.

Sept 12

Arrived from Old River
to Cork. Water Boat.

H. militaris along shores
H. incanus of river & island
Kostelzha opposite Cork.

Malvianus
2 Voluntas Cotton
Lawrence island

Sept 13

Old Lab.

Sept 14.

So. Shore of Mullins' Lake
opp. Wallisville.

H. militaris
Malvianus
H. incanus

Following forest trees on drift
bank:-

[Faint, illegible handwriting in the bottom section of the page, possibly describing botanical specimens or locations.]

P.M. - Lord Hanson

So. of Anahuac to Mouth of
A. Bayou. Covered road along
Bayou + Bay Shore road.
Nothing except Okra

Sept. 15 / 1918
Sunday

Sept. 16 / 18
Shores of Miller's Lake in
Boat. East Shore
H. incanum (rare)
H. militaris
Malvaceae

Boat Hire = \$1.50

West Shore

H. incanum (rare)
H. militaris (abundant on
Promontory) = back for several
hundred yards. - *Gelsechia*
hibiscella also but rare
Kosteletzkya = rare
Gelsechia in sedge

Chick got one specimen
of fine *Kosteletzkya militaris*
same as larva taken on
Lake Charlotte (on Green
prod.) *H. militaris* - green
prods. fresh, mostly dry prod.
+ blossoms.

Kosteletzkya jungle (10-14 ft
high) with west coast at
Bayou to Lake Charlotte. Tropical in
its appearance & climate.

Sept. 17/18
With Dr. Hunter MacLachlan &
Sudworth & Smith Point.

See Sudworth about
Baccharis infestation on his
N.Y. Place.

Sept. 18/18
North Shore Miller's Lake (too
shallow for boat)
H. incanus scattered along
E. shore. 1 Larva of G. hibernica
found in Patten.

Waded around lake - N. - N.W.
& S.E. shores not before visited.
No militaris in the new localities
very little incanus here & there,
some plants (mostly on western
shore) & a few scattered
Kostelykya and Malvarius.

Sept. 19/18.
To Lake Charlotte with Dr. MacLachlan
& Moore (in Chiddix Car).
MacLachlan took North western &
Western shore by land & Chiddix
& I took boat & skirted So. Western,
Southern, & Eastern shore landing
frequently; also on island. No
militaris except that on ^{Paul Sherman's}
Place. A few scattered incanus
along N. & Western shore. Very few
scattered Kostelykya here & there
& some Malvarius. Examined.
Negative.
Moore found two larvae of G. hibernica
in H. incanus.

Sept. 23/18.

Houston.

To Galveston 2 P.M.

Conference with Mr. Hanson
on Malvaceous Plants in Galveston
Co. - Hotel Tremont.

Sept 24/18

To Houston 9. am. for
conference with Dr. Mueller.
Picked.

Transect superstation 1917
Lamarque.

{ Ed. Mills

{ Pigiotola. (Stone) near station

1 1/2 mi. East of Station.
near S. P. Ry.

About island - Galveston
#1 - Auto.

Sept. 25/18

Lamarque - fields of Ed. Mills
& Pigiotola. 4 fields latter
3 fields former. -

Okra. at Ed. Mills.

Pyrodactyla rufipes (few)

Hundreds of Plants volunteer
cotton. Pigiotola's many with
large bolls (green). 3 open
bolls.

Peter Goocha - Dickinson
near interurban.

Volunteer cotton abundant

- bolls open & cotton mature

Boll weevil abundant, also
P. rufipes & Cotton leaf caterpillars
latter for rearing (pupae) - 2 hours
in alcohol.

26 Sept. 1918.

Hitchcock.	Elmide
Alta Loma	Johnson
Arcadia	Phone 1285
Algoa	or 40
Adrin.	Auto.
	Golston.

~~Hibiscus ^(Staticeuliroseus) ~~monstrosus~~~~
Hollyhock (1 plant) H. C. Hanson
Crosby House
Brammont

Great Sunny with strong
heavy rain in A.M.

27 Sept 1918

Hitchcock.
Volunteer Okra - 1917 cotton field.
~~Long Mike~~
~~Liberty field.~~

3 fields - Volunteer Cotton (few)
Palm Beach

Alta Loma
Past place.
1917 field - Walter Carter field
do - Miller.

Algoa
1 mi. north.
Okra on 1917 fields.

Between Adrin + Algoa
along R.R. = Kostelitzkya

S.E. Arcadia
Okra in 1917 Cotton field.

28 Sept. 1918

J. W. Mac Gregor

Sunflower - $2\frac{1}{2}$ mi. from Dickinson
Bettis, D. & League City.

Producers to larger pinkish
caterpillars feeding in seeds.

About size of P. B. W. - ^{specimen} for alcohol
& rearing (larvae & pupae)

Large Corn field & waste land
 $2\frac{1}{2}$ mi. from League City (north)
just west of bridge. Field of
volunteer cotton. Chloridia &
Borl loeif (later larvae &
adults abundant). No P. B. W.
Hundreds of plants. Some old
boles on ground. - mostly
green Lolls.

Okra

Dickinson

Volunteer Cotton

29 Sept. 1918

To Houston 10 am
To Gal. 3 P.M. with
Dr. Hunter

30 Sept 1918

La Marque. (nigger settlement)

Ural Botton

(1917 Cotton)

Sida

3 plants of cotton
no bolls.

Okra

N. syriacus

Sd. Smith

Okra

Mary Anderson

working but Sida
1 Portulaca

Suggest to Hunter admitting
3 check cotton plant. Continuously
in Guanantim Area

H. N. Garner

du Corn &orghum few
Okra - no v. cotton

Pigitolta - fired by Store
La Marque - Dickinson Pike.

Volunteer Cotton (many)

Okra (many volunteers)

Sunflower (1)

Thecla holes in green cotton bolls
Eggs of weaver on green
bolls for rearing.

1-Oct-1918.

Went to Pigitolta field at
Store La Marque - A.M.

Det. J. A. Murphy field

on Hitchcock-Hulen Dirt Road
Outlaw cotton

Harvest 2000 Plants.

More 420 " "

2 to 3 bags loose cotton in house

Kochler for lunch

(Chicken dinner
reunion)

Chinese Hibiscus (double
pink) in bloom

2 Oct 1918
L.A. Murphy field.

Huinch - 8400 outlaw
More - 8400 "

3. Oct 1918
Tony Polansro. ^{Dickinson}

H = 8000 outlaw
M = do "

Scotch^x.

4. Oct 1918

Dickinson - field 700.
Church in Bayou
Vol. cotton (1/2 doz)
Okra

San Leon.
F. D. Holcomb.
Scattered Vol. Cotton, on exact
site of finding of P.B.W. 1917
May Large bolls.

J. C. Bloom. - 1917 Cotton
San Leon.

no. vol. cotton. - Come & Fongher

La Rue. - San Leon.
Pameto field. - 1917 Cotton.

3 vol. Okra - ^{vol.} cotton
Several hundred
large bolls (green)

Benson - field - Dickinson
San Leon Rd - Volunteer Cot.
few; but large mature bolls
(many)

5 Oct - 1918

3 fields of Geo. Scott.
1 mi. N. of Hitchcock.

Vol. Cotton in all stages
very abundant.

1 suspicious worm
found. prob. ~~Pyroderus~~

^(L.) Pyroderus, also for inspection
few Vol. Okra.

of Villard

Chinese Hibiscus

Chloridia in Pods.

~~E. of Hitchcock~~ 1/2 mi.

6 Oct 1918

Sunday = To Houston

7 Oct 1918.

1 field. 1 1/2 mi. E. Hitchcock

Vol. cotton + Okra

(few)
Villard

Geo. Davids - 2 mi. N. E.

Hitchcock. = 1917 infestation

3 field - Vol. cotton (small)
mostly with green bolls. some
mature + flowers.

W. Brown (Burlett's Place)

1 field (few Vol. Cotton)

3 mi. from Hitchcock N. E.

Edmons (opp. W. Brown)

few Vol. cotton

L. Brown.

Vol. Cotton (few)

Vol. Okra (2)

3 mi. from Hitchcock
N. E. by E.

8 Oct 1918
Houston
8 am. Ret. Gal. 7 P.M.

9 Oct 1918.

Dickinson.

Outlaw field

Frank Grizzaffi

Kinnick 4500 plants

Moss 4500 "

Yof. Okra, several

Boef. wren & P. producers Common

Corn had been picked

To Houston 8 P.M.

10 Oct 1918.

Leave Houston for Wash.

7th 9 A.M. S.P. - ticket thru Act
via Southern

Make Reservation for \$15

New Orleans - New York train.

Call up Dr. Hunter's
daughter Mrs S. L.

Buracker

11 - Oct. 1918

En Route.

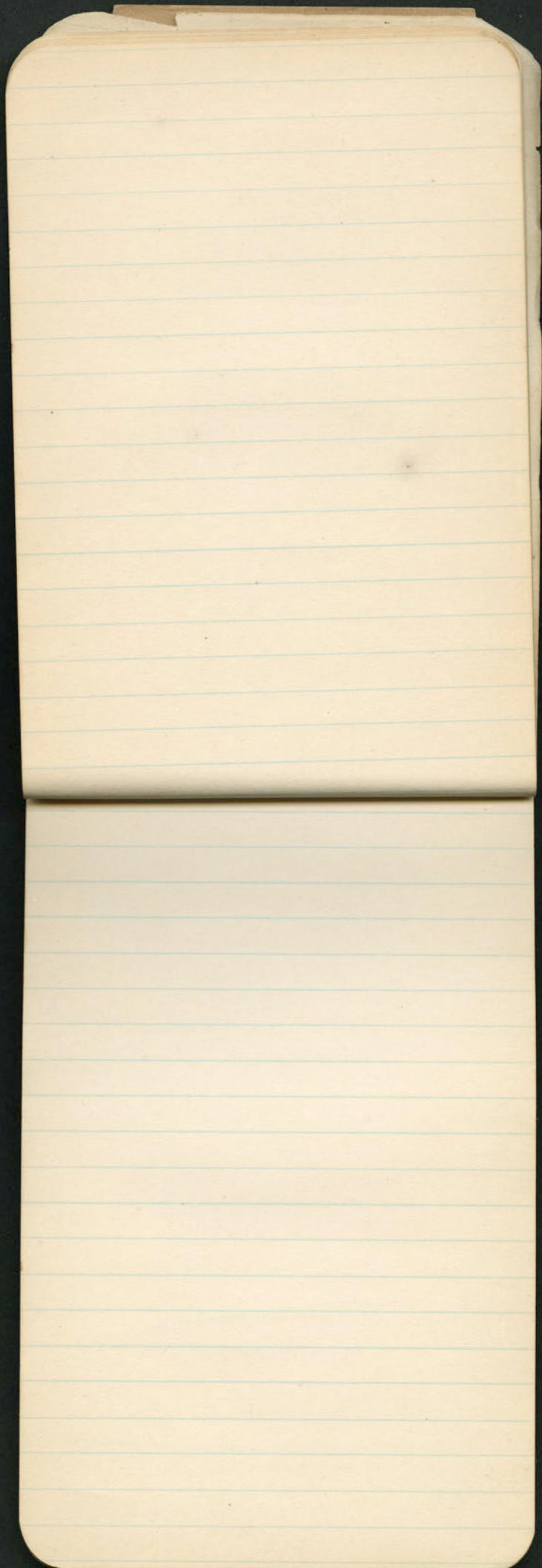
Wiggles thinking of wife's visit to 2 weeks
gone.

12 - Oct - 1918.

Arr. Wash. D.C.

Att.

Train wrecked betw. Fairfax
& Alex.



The glory & delight of living
around these.

Think the summit of desire
by doubtful journey, fighting wind
& frost & mountain thunders. The
thunder break, a mass of snow
& the world with our little darkness
under kind deep & gently stirred.
Upward we long ~~to go~~
wetting conquest. Beyond is
one with soaring heights
familiar, with the place, the dream
& ascending mountain in ~~one~~
single sudden vision.

mountains enjoying life

And life just passed on a
crag, like petals and ~~the~~
~~and~~ ~~and~~ ~~and~~ ~~and~~ ~~and~~
delicately curled ~~to~~ ~~to~~
leaf & stem upon the
dividing of a narrow track
round.

Things become of the
leaf.
a living gods with it
shaking death.

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U. S. Department of Agriculture,

WASHINGTON, D. C.

8-833

Face Expenses \$
Wt at wof June 30 198

77.
4.40
10.40
15.80
13.50
4.15
1.423
2.
10.21
1.71
1.80
1.51
1.90
1.51
146.54

$$\begin{array}{r} 148 \\ .03 \\ \hline 429 \end{array}$$

$$\begin{array}{r} 42 \\ 200 \\ \hline 8400 \end{array}$$

$$\begin{array}{r} .096 \\ .09 \\ \hline 1.60 \end{array}$$

$$\begin{array}{r} 4.30 \\ \hline 4 \end{array}$$

James

