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INSTRUCTIONS.

Every officer or other employee of the Department of Agriculture conducting work while traveling will, so far as practicable, keep a diary in which will be recorded, under an appropriate date entry, a concise statement of all important matters pertaining to such work and also of any general matters that may be of interest to the Department.

This diary will be retained by the official preparing same, but will be subject to call by the administrative officers of the Department, including the Disbursing Officer, at any time.

When this book is filled another may be secured by application to the Chief of your Bureau or to the Disbursing Officer of the Department.

James Wilson
Secretary of Agriculture.

Oct. 15, 1913
via Chicago, Kansas City, etc.
in R. I. & S. Ry.'s. to aid
in getting coal range of
Hoodia and its cottonball
were in Arizona.

Oct. 16 Arrived in Chicago
2 P.M. & left on R. I. at 9 P.M.

Oct. 17 Reached Kansas City
at 10:30 A.M. & at 12th
were in Kansas west of Pratt.

Oct. 18 Passed Santa Rosa,
N. Mex. about 7 A.M
left El Paso at 4 P.M.
Reached El Paso at 8 A.M.
Oct. 19, Arrived Tucson at 1:30 A.M., went to Santa Rita Hotel & slept till noon.

Got breakfast & left 13 miles to Minden Crest in Baboquivari Canyon at 2,500 ft., left horse & followed up to bottom of canyon to reach peak at about 3,500 ft.

Then climbed up and found trail at 3,500 ft. & returned by way of horse.

Found no traces of Chirasha in canyon but found 3 shots from 3600 & 3800 ft. along trail on den sheep.

2 Rangos about Grand Canyon in upper dir. 1 hour surveying with binoculars. 7 accompanying sheep found which injures the lowest bunch at 3000 ft. Near in last shot. 2 May be upper range at a foot odds, pummers etc., were found near it in cold slopes. Returned after dark, 9 P.M.
Oct. 20. Went to the University & got Prof. Rehner to identify my plants & got data on their localities. Then went to Forest Supervisor's office & got information on trails & canyons & forests. Engaged saddle horse & got early for early start into Catalina Mts.

Oct. 21. Took saddle horse, hand gun, traps, camera & started up Sabino Canyon Trail. Reached lower end of Pine Creek Canyon (3900 ft) at 5 PM & camped about 20 miles. Reached lower edge of upper Sonoran zone in canyon & on cold slopes. Lower Sonoran reaches about an hour ahead probably 1000 ft.
Giant Cactus division from Sonoran Zone

Giant cactus keeps out of bottoms. 

Total length 2 miles. 8.67 49.47 miles. 

Ridge 50 feet above creek bottom, then 

after crossing Pullito Cr. at Reeds Ranch 

it begins on flat bench at 2,000 feet. 

in continuation of most slopes of the 

Santa Catalina Mts. 35 4,000 feet. 

Other plants that go with it are -

Pachycereus perrieri

Monocereus pullito

Pepo d'or, aloe vera

Cereus englemannii

Opuntia lindheimeri

Echinocereus ridgwayi

Echinocereus englemannii

Upper division from Sonoran Zone

Hot slopes from 5,000 to about 

3,000 feet are covered by cacti with 

either a mixture of lower upper 

plants or a subdivision of types. 

It comes down to 3,000 on cold slopes in 

canyons. Above it's plants are -

Baccharis raubitschkinii

Roggenbuckii

Vaucheria corymbosa

Nolina smithii

Agave cupreascens

Ariocarpus turbinatus

Thurberia stokesiana

Hawaiian endemism:

Artemisia flagipilis in part.
Upper Sonoran Zone

Begins at 5,000 ft. on S.W. or 4,000 on N.E. + in gulches. +
runs up to about 7,000 on S.W.
as 6,000 on N.E.

Characteristics:

Pinus empetrata
Juniperus pinus
Cupressus arizonica

Acerus pensylvanica

oblongfolia — impet
articulata —

Arctostaphylos pungens

weight

Transition Zone

Runs 7,000 — 8,200 ft. on S.W. + about
4,000 to 8,000 on N.E. slopes

Pinus ponderosa arizonica

Pinus chihuahua

Pinus albicaulis

Picea engelmannii

Picea virgata

Pseudotsuga

Abies religiosa

Acerus hyptaphyllum

Arctosporum

Pseudotsuga

Picea engelmannii

Pinus albicaulis

Cercidiphyllum

Rhus

Symphoricarpos

Canadian Zone

On N. slopes 8,000 to 9,000 ft.

Populus tremuloides

Alnus incana

A. arizonica, a few sap.


In Sabino Canyon, _Thunbergia_ has a restricted range in rich benches and over deep slopes from 4000 to 5000 feet on S.W. slopes, and runs down to 3500 feet on a N.W. slope. About 154 plants were seen in following the trail 10 miles through its zone. The plant was usually neglected by 107 weeks on each side of trail. It fills the upper divisions of lower Sonoran zone, Britain, and the Giant Cactus slopes of leading to the next species, _T. fibrocoelea_.

Its associate plants are:

- _Eucalyptus delegatensis_ (mass of little light)
- _Guernsey phyllosticta_ (in the north)
- _Vagiaehaeanocolina_ (in the west)
- _Acacia suffruticosa_ (in the west)
- _Solanum angustifolium_ (in the west)
- _Gesnera digigloia_ (in the west)
Oct. 22 — Started up Mt. Siskiyou Trail and followed it from 7 AM to 5 PM. To reach Ranger Cabin at 8:200 feet, then returned a mile to Bear Wallow Cr. Camped for the night at 1820 in Big Yellow pine forest. Made a bed of Yellow pine by big log & kept fire all night to keep warm. Plenty of geese for lozzi. Waters in pools along creek, not reaching much of the way.

Translation gave joy to sight of big trees & Yellow pine, weight of which gives to roughness of trees. Some oaks, a few aspens & Robins.
Oct. 23. Started down train at 7 A.M. & hustled all day
to 8 P.M. at Tuesday. It
must be near 30 miles &
with a load & small addition
I could not travel fast.
Got dark as I passed old
H. Lowell. Ch: in very
tired & lame & footless
and worn out. Had two
bad days.

Oct. 24 - Went out to University
& got Prof. Turner to identify
my plants & what notes I got
ready for trip to Santa
Ritas early in morning.
Sined with Swingle, McGray,
& Cannon.
Oct. 25 started at 7:30 AM in Ford automobile for Santa Rita Mts. Followed up ford along NW face to M.C. Olney's ranch in Stony Cabin Canyon and started up canyon on foot. The ranch is 4,000 ft. Went up to mouth of canyon at 4,400 ft. and leveled at 5,500 ft. Continued up slope to 6,000 ft. on ridge and into canyon at 6,500 ft. Returned to ranch after dark.

Eucherine mountains in summer along the march at M.C. Olney's, and all up above on stony slopes to 4,400 in upper slope and to 4,500 feet in canyon slopes above Robinson and in the mouth of canyon. It ranges with its blue alpine asters, Eucalyptus up to 6,000 feet, sunflowers and not above. Passed up slope and stony tracks and edges of washes.
In the washout it is often mixed with the cut of wash plants with which it grows together.

Oct. 24. Started early for the canyon with Bright & Freeman and I followed up yesterday's trail into canyon where we reached at 6,500 ft. then up to top of ridge at head of canyon at 8,000 ft. My side about 5,500.

Starting down at 4:30 & got down to canyon at dark. Then had to come slowly & reached the ranch at 9 P.M., very tired & lame. Saw 7 little white tail deer & considerable bear sign. Tipped a spotted owl & a Compass.

Got good plant lists & some flowers.

Found plenty of cottonwood wrigs in the bottoms. Prof. Thruston called out of town is in survey.
Oct 27 - Normal level & pump

Oct 28 - Left up corner of
Post Lady's
Trent

Oct 29 - Took some
Post Lady's
Trent

Oct 27

She was collecting

She was collecting

She was collecting

She was collecting

She was collecting

She was collecting

She was collecting

She was collecting

She was collecting
Oct. 32. Took horse & begun #down to Zanquill Verde #fished #to get into Secret River Uits. #but could not get high enough #for wild cotton. #explored through story of giant antus & too big wasquite. #returned to Tucson, packed to take C.P.R. train for #Tucson, arriving 9:45 pm. #Railroad #cloud.
Nov. 1 — Down past south edge of Kennedy Lake, 4 or 5 miles less quick run west of station but hard as hell of travelling. This is too high for it and not steep enough. Down upper slopes, very good with a good track, lower all across the pass to tributary valley. Country open and grassy with lots of yellow lichen, yellow and white, many boulders, Queen Anne's lace. Some solid but mostly liquid - lots of Agave palmeri but uncleat. Nothing edible. Marguerite is mainly present if glandular, a few little solution. A man in no need of the edge of the two sand that a slight spring of water leaves the vegetation to spring. Lower slopes. There have been so few as yet, toads and lizards, some a big red and green.
Dry farming is a great success on a small scale as shown by Mr. E.D. Bole, who has this year raised good crops of corn, beans, squashes, zucchinis, watermelons, tomatoes, peppers, etc. All his fine moving bean plants, except about 25 or 30, failed, however. Few, if any, dates or pomegranates grew vines. The soil is not saline except with a sandy surface, and the only water is rain water or such crops as can be caught in earthen vessels from slopes above.

There are no wells in town but one drinking water is located in family from a well at considerable distance. Riffles are abundant east moving grain crops entirely.

Leaving Dry Creek we go out into the great Salinas Valley filled with very little harvest, and almost barren. Spices all the way to Cordey. Will lose the road soon pass east to Pottle.

Pottle is in the bottom of the great San Simon Valley in lower Salinas. Just north of town we saw the first Corolla for today and it is abundant to Salamon. Also a full set of lower Salinas should, Mesquite, Acalica, Cataplex, flowerina, and lots of greenadias or Ophanta. Pemon Salamon is on the Pinn in a well irrigated valley at 2979 foot altitude.
Note 2. Got a saddle horse and rode west about 15 miles to face of Graham Mts. and up a canyon to 7,000 ft. where the sides of junipers begin. Found no trace of Chuscrnia although the soil and slope conditions were good for it, and I passed entirely through its zone. Part of its associates were present - fir, Sitka, Arisaema, etc.; but the blue oak, Pseudotsuga, and most of its associates were missing, and others have taken their place. The canyon runs east and east but has a steep set north slope up to the level that is well suited to Wild cotton plants.

The Gila Valley has a wide all bottom land area all irrigated or under cultivation, mostly in alfalfa with wildflowers and willows along the ditches and roads.
My dear friend,

I hope this letter finds you well. I am writing to express my gratitude for the hospitality you have shown me during my recent visit. Your kindness and warm welcome made my stay here truly enjoyable.

Please accept my sincere thanks for allowing me to stay in your home and for providing me with such a comfortable and pleasant environment. I truly felt like a member of the family.

I am also grateful for the opportunity to explore your beautiful city and its rich history. The experience has been invaluable for my research, and I promise to pay you a visit again soon.

Once again, thank you for your generosity and support. May you be blessed with good health and happiness always.

Yours sincerely,
[Your Name]
Upper seasonal fruit begins at 4,000 feet at an N.E. slope not at about 4,500 feet on slopes of the Graham Nut. But only about 450 of it.

It is characterized by

Quercus emoryi
Quercus wislizeni
Juglans major
Platanus wrightii
Celtis
Myrica microphylla
Fagus grandiflora
Juniperus communis
Picea engelmannii
Rhamnus crocea
Sophocles
Rhus typhina
a wallis
Asea fruifera
Nov. 3. Wrote notes until 8 P.M. T
Then started for Globe.
Out dark before reaching San Carlos, but unnoted
We felt chilly in dry atmosphere
except where designated in the note.
Return at 11 P.M. all had a
Both sides very hair.
From San Carlos to Globe
is my only words cold and
ofjades all the way and all
backs Scared. There are no
mountains until near Globe where
a small range lies to the west.
Arrived at 8 P.M. to
gate the Dominick Hotel
a fairly good place.
Dear [Name],

Thank you for your kind letter. I'm glad to hear from you.

I was very surprised to hear that you are planning to visit our village. I hope you have a pleasant journey and enjoy your stay.

Best regards,

[Your Name]
Amount of sunshine it is getting to the east, cut off 2 by 2 hours to afternoon, anytime, early day. To the east of place I expect to find the ground during a little higher, but no more of thunder, although cutting through its gone on good strong thunder, and very favorable for it. Soot is abundant and a little aniseed this was found, but many of the plants such different than the aniseed, sun nets for plants are very is very keen.

Emerson's I intended to catch the opposite edge of a clear cool day. This has not been much peast up her yet.

3289 heels in one gallon that would not been peast.

Nov. 5. Followed down the road a mile southeast of town 13.40 quartz of green granite, first turned up a good grade to the east. Deep mother have cut down through old corse corneal granite, which is left in great textures along the up grade. About 50' feet above the railroad I began to find aniseed on a mile and a half up the ridge found plenty of it. Cantile 95 bushes of it in going from 3000 to 5800 ft up the rough west edge. Could see it was abundant on the next ridge north of the deep gulch, by using the field glasses. It grows in large thick stuff that
Stock can not get at it and this seems to be generally the case. It is often found partly eaten off by insects. Many of the branches were 8-10 ft. high but over an inch at the base. I found a lot of insects and some wood. Could find no traces of weeds and I examined all the bulbs on a large number of plants — enough to feel sure there are no weeds here. There was plenty of calla lilies. Found part of the rough edges of some suitable places for the plant, but no other part of the country that I found seemed a lot of its old native plants. Also a few that are new to me.

And a great many of other sorts of weedy plants.

These were evidently associated with those here:

Podostemon, tueeia, Gymnocalysium

a. Auricula

Oer:selected

Minusa biinata

Barbarea

Chrysanthemum

Psilostrophe californica

Riccia

Rheum salicifolium

Bulbocodium nigricans

Ambrosia angustifolia

Ambrosia chamissonis

Ambrosia artemisiifolia

Ambrosia capillaris

Ambrosia paupercula

Field

Field weeds
A few Plant cactus growing on a steeply
sloping slope across the gulch.
Also on various other slopes are
Parabosicica linephylla,
Paracoccus selaginoids
Persea gragghi
Zygophytes
Tetrapus
Echinoceactus inderi
Echeveria angulata
Pachycereus chihuahuanus
Cylindropuntia ligtensis

Arroyo palmeria
Fromhehland Luisa

A low cold slope of thin cover doesn't
propagate many plants.
Barker: Started for Phoenix in a big old 6-cylinder, 40 horse. Painted gray car that had seen better days and a good driver. Got about 10 miles up on a narrow grade met a big truck at the point of a sharp curve while there was room for only one car. Were about 40 feet apart when the two cars came in view, so the driver didn't think it was safe to cross. We had the outside of after smashing the truck wheel & windshield we went halfway over its back but stopped with the hind wheels on the road. Jockeyed blocked up part of ear & broken up. Fixed front wheel but axle was totally bent & continued some damage. Older to start another day.
Starting for Phoenix again about 10 miles out a wheel ran off & tire blew up. This happened 3 times so we replaced both for another wheel which did not come till 3 PM. Then continued to Phoenix, arriving at 12 PM. Got dock at Fishhook but a good view threw some light on the country. The sun set as we passed through Roosevelt. Got some good notes for 202 ways.
Nov. 5 Remained at Phoenix

Get mail & went to fair to see

Gum & Edwin Rogers & his gang

exhibit.

Nov. 7 Got 20 for horse &

contracted it with agent

& took 1 + about 5 min

in order to wait 1/2 hour

at house at 9 a.m. + put in

40c & put in rust + left

at #1 

7 make, 20c, 25c +

other may.

Grand Total $427.18

+ 7c on 12 +

10c on 12 +

3c on 8 +

2c on 2 +

1c on 2 +

1c on 2 +

1c on 1, etc.

go to my name here

on

Handing over money.

Put receipts in file.
Nov. 11. Left Norrie $315. All.
for Winchells.
All fares to Zephyr & Mera
- Highley. Then all 33 days
& 33 days.
Close Draas of Sanfor
now & forever, not over 2000 yrs.
& all lower Earsman.
The Earsman beyond them are a little
higher but similar.
Some country to Webster there
as it gets single 0 degrees of
& of Sanfor. This is
abundance of Great Carriers &
Cylindrical stones & pesta, olives
& Brillwegorna, maquiés, satinus
& cacti.
Florence, on Gilg.
Narrow valley, rough canyons, very bare.
- Not covered with giant cacti +
- Fidgita + bisigules + Polvada + Alvar
- Bocar: Bqueues vinias + arzeludo +
- McDiaihe plains along canyons + rivers.
- Beg: monte + etseneus.

Soon enters canyon, very rough +
- Picturesque, towers + black tárado +
- Needle + peaks + cliffs + canyons.
- Ray Junction, high road.
- Narrow valley, few, lots of cacti.
- Orisation, in appears.
- To Ridelwerson the same
- Bears hot canyons, rough sides but no wits, near.

Took these cars 200 miles out
to San Carlos or anywhere or
- Nothing you do outfit up to Ray on the little express.

Arrived at Ray at 3 PM.
- Started up hill, on north side.
- Of town, climbed to 3500
- But did not reach top
- Which seems to be 1000 feet above.

Took no breakfast. Got back
- After dark.
Nov 12 - Started early up Hugh & W.I of town & climbed to 3000 ft near top & stopped. Then came down to 2000 & up another peak west of town & 4000 ft top & back to town. Was not all day without walking to only a few feet & a peanut candy to eat. Found no trace of Robinson the in its 3000 & with obscure & many of its closest associates. Ford seen not any old shop hints.
Nov. 13, Pained to write up
notes of Frank train for Je. at
1 P.M. & back to Wiser.

Stuck first Okra as we
passed between M & S. But it's
came out of carrigan as
planned.

Reachd Meta 5 P.M.
Dropped Hudson at Exp. Sta.
She is coming to get me in
the morning.

Nov. 14, Had a long talk with
Hudson & found there was no solid
in going to Eosemen as the risks are
too low for the - time & have been
staying without showing it.
Swingle has not been heard from.
So I'll stay at Pening & find
Goldman at 11 Muskato & come
On June 21, we start south from Bear Creek and in eight days reach the north end of Bear Creek Valley, where the high road begins. This is then into a track of lower Sonora until we reach Skull Valley, where it is clear again and one can see mountains of the Mesquite Valley Range and Chihuahua.

Then it mostly disappears till we get into Skull Valley where there are strong trade again. This is the last of lower Sonora.

From Skull Valley we go up the grade to good part of the summit where pines abound. Passes enough, camp in the saddle. 1st pass at 5000 ft. 2nd pass at 5500 ft. Little Sonora also seen and pass on warm clothes. See not too big for good. 1st pass good, 2nd pass good. 3rd pass good.

Climb up, prominent, first peak at 7200 ft, And 2nd peak Baja Ranch, things common. All after 24th, 25th and beyond.

Climb up, prominent, first peak at 7200 ft, And 2nd peak Baja Ranch, things common. All the way to Calle del Cielo.
All up, 9:30 A.M.

Ashfork, forests of Junipers & black pines & huckleberry.

Left Ashfork at 6 P.M. 

Drove 7 or 8 miles of the country near Ashfork & Flagstaff.

Stopped out at Flagstaff to get a morning train on to All the country east.

Stopped at Commercial Hotel.

Nov. 14

Took 5:45 A.M. train out of Flagstaff.

Raining all night so we didn't get daylight till 7:45 A.M.

We passed Campbel, Duck and Roosevelt.

Stopped for breakfast at Winslow at 7:15, still raining.

No trace of snow in the picture.

Along the Colorado valley and Winslow to Holbrook.

Rain, cloud covering the ground. Vegetation is bassia, brush cactus, pinyon and mesquite.

Chaparral covering the whole district, with tall clump cottonwoods, salt grass and sagebrush.
M.C. Cherry, Aug. 27

1250 Ground Squirrel
1
2
3 Spotted Owl 8
4 Beagl. Pluck 8
5 Spotted Owl 8
6 Phoebus 8
7 Cardinal 8
8 Bird of Prey 8
9

1240.
9547 Mena 70, 09 28, 305,135, 34, 20
- 9550 Mena 95 2, 13, 34, 50
- 9552 Mena 2, 20, 19, 50
- 1. Spiregale
  1. 410, 127 42
- 9552 Spiregale 189.145 21
- 9553 Spiregale 60, 25, 145, 0, 200, 110
- 1. Carrion Stoves 23 (Med.) Steeple
  Skirt grey deck & large.