FIELD DIARY

Mr. Vernal Bailey

Period, May 4 to June 10, 1929

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March 4. Reached Grand Canyon from Flagstaff 5 P.M., after pleasant introductory drive past
with the Indians at Flagstaff.

Found Mr. Patte, Asst. Supt. of Park in Charge during
Mr. Killhope's absence.

Arranged for conference in
morning. Left for El Tovar
Hotel. Found Mr. Kee and
Brooke at one of the old rapids.

Waded up the rapids from
Williams to Grand Canyon
more carefully than ever before,
and along auto road past Red Butte.

Hot and dusty outside, still
and cool in woods near
Canyon.

Early spring and little green.
May 7. Held long conference with acting Super. Pete and Head Rangers Brocks eul Puhl Naturalsit Wi. We're ready assigned for help down to bottom of canyon early in morning. Roped up outfit and sent baggage to packed for the early morning mail train.

Lots of birds and squirrels and a dozenplus ducks. The ducks are fine while they are proof of water and an escape and lane.
May 8. With 3 mules and one
stallion we started down the
Crisata Trail and reached
Phantom Ranch early in afternoon
passing pine cool upper with
no flowers and little green
bark oak branches at the top
to early summer in bottom
of canyon, but odd bit
algae pitch-occupy and Gila
breezes and mesquite in
hazartz and most of the
species of cacti and many
of the other flowers out
leaves full grown on The cottonwood
desert and mesquite in
full flowers, reached nearly
half grown.

Both means in spring.
The Myths well exemplified around.
May 2. Bore to mouth of Creek
Drove with black and thundr down
The river about a mile, no place
any can go.

Got a blanket and a

Sat in evening but
A high wind spoiled the night.
The fishes or Pack's came
in afternoon.

Slighted both but too warm.
Cool in morning, hot
in afternoon. Windy in evening.
May 10. Caught only a few Passaquaque and not in the brook but in the tent where Passaquaque breads were fresh. Bats plus till after noon. Hurray! I found not so anyone as yesterday morning. Too wonky.

May 11. Got more bread but all of the little Californian type but these had not only the fruits but also the Passaquaque. I must have another.

May 12. Got a Stopagale in a 28 foot nay cord while I was at it, also a big Mystery Passaquaque in the tent house that is putting tam I and not drinks well.
Indian camp a foot about some feet above the town at mouth of Bright Angel Creek, a little place with walls past my own and a lot of bunting.

looks down on both sides of bright angel creek, very green, may be a safe route or not but seems like the usual mountain trap after one is over the rim first striked in the morning.

May 13, got receive a letter from couple of Indians,Owens Valley, pretty cool.

Caught a wild turkey, shot it.

Photographed tracks of cermelophus and specks of grey fox and deer.

Now the first Cameron win.

Mosquitoes are blooming and very fragrant. Cascades and Eagles' gorges in Bloom. Dikosa very fragrant.
May 15. Left Phantom Ranch after noon and with Olwin White, Jim Brooks, and a single went up to Roaring Springs and bivouc'd all night at the trail rider's camp just west of Roaring Springs.

Upper Sycamore Grove really begins at Cottonwood Camp where the little live oak (Quercus virginiana) becomes a feature. Junipers of bent pines reach down only to 2000 feet but above the Cottonwood Cabins on cool slopes they come to the level of the pines. Plant a little above, while a trace of snow remains on the pine on hot slopes.

At Roaring Springs a band of Transantarctic Zone spiders, Fulviceps and Western birds, and an ascendant yellow finch follow the
South slope along the spring level apparently owing to seepage of cold water as the great springs passing out over partly level to the high wall south of the Creek that cuts off a lot of the drainage.

Proverbs have been heard of springs and falling up the creek with old cuttings. They are said to be further up Bright Angel. 

Our bear hounds and foxes all through the Gambel oak woods when browsing the oak sprouts.

Shot one night on a California.

Shat a Coatis somewhere suppose up at Cottonwood, close to the house where we set the bear hunters little fingers a few days ago. Did not hurt him much.
14th September 1857

Kamloops.

Lots of snowfeather - August 1st.

The burning sametown of on north slope at top of ridge where trail strikes west.

Columbia point in distance, no boats, no ladies, little vegetation.

Over top of Kamloops much snow, big drifts in open and with slopes solid snow 20 to 1 foot deep in woods.

Water holes full of water, streams running, Indians crossed in wide steps, cold.

Cattle not started, very little green - 1 loose, 1 bush with 1 little white daisy in blossom.
May 17. Soutwest of Kearan to Ryan and then south to Big Springs and camped at the ranger station. Then drove west from Big Springs and went onto Chad Cut mouth as far west as the road would go. Then turned over to head up Cottonwood Canyon and walked over a lot of dead leaves on the way. The west is much covered with cheat grass, and the field is mostly covered with weeds. The oak and sevce trees furnish nice much covered places. No deer very seen on the plains.
The Weather has been very good. The climate is just right for us. We are enjoying our time here. I hope to write more in the near future. Regards,

[Signature]
The may have been very dry or sick by last year. She has
表态, rough and rather thin out.
The rest of the 42 days were
in as good conditions as any
spring that first cow, much
better than they in the south
rim of the Canyon with plenty
of grain to eat all winter.
We rode over many miles of
The finest kind of winter land,
that was practically untouched
by dust. The one knows why
they do not need it.
Only about 200 cattle have
ranged on this part of the
foxcot during the past year.
By the 20th month of range,
but there is no going left
for them to eat.
We lived with two lads,
on Slide Canyon, the
this at lately Rock a little further north. The water was very weak at first, but manly clear rakes were seen out at the edge. A good growth of clod heads covered much of the deck winter共青团, but it had all dried up when last seen. For want of water the ship is very dry. Clarkia is in flower in the winter gardens, and one big lumpy garbe with red flowers is out. A few small flowers and two sedges seem new found in Prince. At Lake Rock Camp some 20 or 30 dead ducks had been caught—the richer part of the flock, but the 20 or 30 had, broken them to this extent.
Try to jump or get rough with any mule.

W. P. Harris says he has seen as many as thirty dozen head dies in a deep horseback riding over the winter range.
May 18. To Flat Reservoir of hunting camp then one to head of Spotted Canyons to headquarters No. 2. All vegetation gone of fire and all grass and very dry. Some very dry, scolding and blasey will play willy, Capronias madagascari, tassel; but a little milky juice, Pogonias tenuicollis, flowers, young grass and juicy plants so they can stay for a long time on dry ridges with no water or many streams.

Next to edge of ridge ending Spotted Canyon we looked down on it and jumped Canyon into Kanert Canyon. This road and ascend up Indian Canyon to Big saddle Camp did up to Big Camp on 3 little ridge to 8200 feet road from road.
Out all day & Covered 12 miles & saw a lot of the winter range & deer which is most intensely grazed along the breaks of Kendall Canyon & mule deer. The trails had down into the big flat valley above the wash bottom of Kendall Canyon pepper. Much to Covante for morning is killed out all closely bunched & the jumppers & antelopes are killed high rider. etc. & killed homes all over winter range but only 2 deer & two or yellow jays intermediate & where above they are now. These two deer may have been killed by line of coyotes or other in season.
These are no more than would be expected normally if food were at its best and the 70 or 80 deer seen in the yellow pine country are in a good condition as my data show saw in spring. There seemed very poor at all week. All cold along a gray winter coast but in many it is very rough and rugged. The stems of old butcher are often 8-10 in. long, wide and chested, or in the younger branches were spikes of a thinner log. None of the does showed signs of being heavy with young and the fawn search must be well beyond this.
found much sign of piles. Squint work not done a few times. They are dead one day judging by their color. Can't get this anything from here. Pile squints are formed at long distances from water, many miles where they can't get any except when it rains which does not often in that location. The term applies to...
Found skulls of bobcat, upper end coyote at old lion brush on ridge near Sevato Canyon and numerous coyote tracks and signs along trails and around water holes. Also droppings made up I wonder what kind but rabbit remains. Some holes were probably made by badger.

Jack Backly and his companion fenced hunts fixing old lion at boxing. They have a fine bunch of lion dogs and a litter of puppies at camp. Jack has killed 58 lions in the past year and a half, he has been hunting profitably in Sevato Canyon but not around Ryan.
Pinekines are fairly even all through the yellow form of Canadian parking at work on edges where they can never get any water unless it should sometime rain but in summer they eat green vegetation or winter snow. Saw one on dark hill not on point at edge& but ended to get it and saw plenty of deer & cottontails early in the hundreds & flocks of geese. Thoroughly frozen hills not covered by snow in transition here. Many small hills below Rank Springs east of Havre. Bobcats or gray fox are common in the canyons.
Coyote pellets Abundant on Sorets Point and all over Big Spring country
Could not find -
Deer hair - only a few shed
Nestings - hair/hide, etc.
Pothole - a few
Passages - abundant
Perdipes - on part of skill
Bird feathers - none, several

Saw a Campuspоясиси and lots of the smw birds.
Saw Chordistes — insects over edge of Canyon.
A Scott crake yesterday was down near the Canyon of
Flaxel's Creek.
Found Elaeagnus sardulifolia
along edge of Canyon.
Found reds of the shelter
due on ridge south of Sorets.
Shed hrons are numerous.
May 9, Stacked deer pens and took out gear. W.P. Mann got supplies at the Naioboth
Nail. First specifications for a small trap. Trap out in store or to be built. Trap 5' wide
long, 4'2" inches high and 1'6" inches wide, made over from
of 2x2 with rounded inside corners. Cover with one inch poultry wire and a heaving 3 high mesh wire over it, wire to 2" cardboard. Corn
inches board bottom, and two
tree to be cleared by long cross of heavy galvanized ironing grooves when the
den stake a thread in middle
of trap with least cross at center.
A canvas or burlap rigged on top
rolled up on both sides to
drop down when the doors drop.
By using bait a small thing can be used as the deer will go in one way early in the year and to keep the deer can be done to the trail next of the traps.

The same thing as bad on the farm, their guard can get on the next. The trap that don't weigh more than 50 pounds and can be used for a day and kept out so that next to arrive there, but the badger, the same thing as this. The present few method is used at all times not our effective and this is a small and many fur. They are preserved from our fate to our flesh and finally into cattle. There are limited large kind with good bear and bounteous.
May 28. Egan Knob Trail. To Brigh Angel Creek at Phantom Ranch. någles of saw-toothed oaks at top.

Peterson mixed to having springs found. Coppery Beaded was common in full budding color and was lovely.

One large male collected meso, 7 inches in total length, tail 4½ inches. Scales long and very strongly crenellate and almost split.

Color, dark coppery brown over all, particularly most brown over younger individuals. Loops of petiole gray with reddish green on blades green with reddish green margin. Spots brown and profusely by black. Another male was similarly colored above and they eyes are always yellow or white in a normal virea and large black pupil. Another had polychromatics.
Phenology across the canyon.

The sequence of flowering the top to bottom and bottom to top in choosing the Grand Canyon is a missing feature of sagebrush and willow.

Leaving Bright Angel Point 7:30 AM on May 20, we find the canyon just in passing catalpas and dominy gym leaves while below a few early peduncles are giving their long thimbles flowered among people leaves and that is all.

Just over the rim as the hill dips down. The geyser takes an elevator leaves the geyser's few of their typically cathwic enemies out but there is little delay until we get down a Thousand feet into the town where a layer of upper Zonan emerges in shifted slopes that get more than a fainter of something.

Here a few red beds show rogol purple colors and a little lower the ygg tree is in full glory to be haying flowering. In this bed cathwics also there are many Baptisia sight out of the trail of the third party goes mean dig up areas a red mitch of little yellow mustard and the golden globes of Oregon grapes flitting jist color leaves the ground.

Then as we come down below the tunnel on the trail there are fragrant cliff rose and yellowings among the gladiators and will blue out stone by overlooking exposing the cliff red flower of the bushy bead and the pink hues of the white gland little proudly bear.

A few blue flags on ledge from give a touch of color among the fragrant quinupos and wet places.
Down at Phantom Ranch the flowers are at their height, and the whole place is bathed in a delicate shade of pink and white. The sun is shining brightly, and the air is filled with the fragrance of the wild flowers that carpet the desert floor.

Arrived at Phantom Ranch at 5 P.M. began packing up to go to Pipe Creek tomorrow. Weather cold pleasant in the Canyon.
May 21, 1947

Packed up the flies and drove to the Springfield House for the night.

Woke up to find it raining very hard. The room was awfully cold.

Drove back to the Springfield House and had breakfast.

Continued on the road to the Cantonment and back to the Springfield House for the night.

Went to bed at 9:00 P.M.
May 23. Explored the Aaron valley.Very clear when it jingles over the headwall, when it is reflecting. In the abundant trees in the gulch, thistles up we can see dense stumps of Douglas fir and cedar in the two upper shelves of the river. Found an old bumper of the ancient ship and a few bones that are probably ship bones. Three or four lots of delirious pits and a good supply of centipede ants. Two thorn-grasshopper seen and a lot of poky squents.

Set 27 traps.

Raised bread for fowls only just at sundown and spilled most of my traps.

Cold in evening.
May 24, Caught 5 Rattlesnakes and two Black Rattlesnakes
and another large rattlesnake
of the continental group.
Saw a lot of Rattlesnakes and an added gopher snakes.
A still, beautiful morning,
rather warm day and it rained.
Rattlesnakes just a bit long,
not very large, but as large as they get.
1. This silver yellow; Rattle's lines of black, vertical with sides slightly raised, in morning just much wider and vertically ideal.
Stomach contained young and squirm about 6 inches long, tail and all, probably before eggs were open.
Small, plump and sound.

specimen.
May 25. Walked over to farmers' garden, 2 1/2 mls, and watched for birds and signed up for a poster collecting. The others then joined Chuck if at all possible did not get any thrushes. The antelope birds are still here but poor of painting and not enjoining life. There are 7 old and 10 young of this year. 3 does at four buckles, two young bucks and the old ones spend all his time chasing the others away. He also chased away any dogs and man ran a shoot down the trail about 1/2 mls to the edge of the Canyon. Both were shy but just that.

The mother antelopes have their young hidden until two or three hundred old, then bring them in.
Cactus — Canyon-Exhibition. Loretto

Opuntia englinamii

Opuntia multicantha [upper downtown]

Opuntia

Mammalaria

Opuntia. mammilari

Opuntia englinamii

digitate flowers with greenish centers, long white spines

Opuntia

dark red flowers, broad pads one long spine in a place

Opuntia

Pints flowers, pointed pads one or two long spines, not so large.

Opuntia


Opuntia

Small, long white spines, pink flowers [upper downtown]
Weepees
Food as shown by pellets i. spadepug
Citillus graemius - with few bones
Amoepomophilus - not so tall
Entelias - not spiky
Scapopaeus, four hours flat death

Bird feathers - in social

Small skin rolls - in one

Seeds of jackberry - in one

Insects, butterflies
May 27, Packed up and went up.

Half to top by way of Indian Gorges
with two pack mules and 3 mule
mules.

Caught another beautifulstag. Another
was another Indian, but caught me
last night when we camped.

Saw 3 mule deer at Indian
Gardens when we first came down from El Pinto
as they often do, stay a few
days or return. Saw some of
The other mule deer at the top.

The Antelope of Indian Gardener
are in better shape than last
year at the end of the fall, but
not very good. An old buck
wears rather out, glowing off
the young feelers also. keep out
in the hills a most of the time.
There are two does, each with
Two tours from May 14 to 19 are still out in the brush but one of the mothers brought her two down the trail today nearly to the station. The other fox has not. The black brush on the Forts mesa was where the trail goes down to the river—Garden Creek. She goes out to find their mea or twice a day. They come back. Krute Schlepper, the Keeper of Justin Gardens, had followed her and seen her and the young one. They have them hidden a little way apart. He expects them to be with her in a few days, when a week or two old. They are out of the nest. She spends a part of her time around the station watching after her. Her name is Palen.
Plante says they are 17 months since they went last west to the Indian Gardens and a few days along the trail occasionally.

Our guides (Howard) was for "pots" he thought on the march before the Rain started back, and 2:00 last day the Rain, Indian Garden Trail this morning. probably saves 20 or 30 head.

We passed an old wheat field and a deep ravine above this Camp, and on the side of the trail there was an old Indian chief sitting on the rock.

old salt is Rogers. 16 oz. of equal 7 oz. sugar while all the way to the Camp for knives it would.

The other doe is of last year and is not four a year this year. There are three other young does kept away by the oldrecommend. 11:18 11:18.

Newt says the old bush will bear any day and one day he came down the trail on a deer run after a little deer. The deer was doing its best to keep up speed of much of the chase.

The antelope eat mostly leaves of evergreen bush also all sorts of flowers and fruit and plants around the prairie. I could not see what they were eating actually.
May 28, 1878—I entered
working at Grafton Canyon
Bright Angel Ledge & Skies.
Writing notes, topography,
shipping specimens, but without
all the help.

June 5. With Mr. Killitzer and
by Cameron, the Canyon ends,
Horseshoe Valley to J. F. Peters
and M. T. Ranch. 230 miles.
Got in late and saw Major
Goldman, Roulette, Bullhead,
and Many of the Forest Service
and Huerfano about stake some
monuments. Bullhead, Mr. Holy,
Arizona. They have been
here 3 days, going over the
same ground I went over
10 days ago on the west
ends of the Rainbow.
Wapped life goes all the day around.
Country very dry this year
And few flowers or green plants.
No grass or fuel for stocks or game.
Saw the buffalos in Kansas Valley.
Cattle dying along way very poor.
Friday, about 75 or 80 hours
morning at large in Thunder
Valley. With thirteenth calves
about 90.

Hugh Anderson in charge of
them, address batch of spring

A good rally for anyone.
At South Canyon where in past years hunting camps were located we found abridged
conditions of different spring of other vegetation, and it is likely our supply will
along the idea of partially, their own the same seen. Some fresh marks of deer
seen but not dear. Came back to Pine
spring at eight in afternoon in
Two 400 yards north of
old Hwy house, apparently
Mulehairman.
July 7, Hinch, footballs, but found only a few
cabbage leaves. Wish I'd bought
some eggs for lunch, that damn ridge
to cost overlooking Cable
Spring-Sun-
In the distance, much smoke over the
next few hours. Times,
and cattle damaged at Hill.
All going according to
game of the bad attempt?
Current badly damaged.

Bush to V. T. Park by
an accident at night,
united 348 dollars as we
came in.

Saw 3 white tailed rabbits
and 2 black rabbits.

Rescue numerous in V. T.
28 39 39 54 min.
June 5. Evening got back in camp in order and enjoyed supper. Firing caps and glasses again. A heavy mist threw a dozen or more within our lines at times. Chickens and roosters made the most noise after the chimp, but not trying to sing.

June 6. Went down to Orient Point. Took hay and some hollow and down live oak and inside Creek Canyon to edge of Grand Canyon just east of Hubbell. Took back up Indio Canyon to Cutting Springs just south of Big Springs of Coconino County. Tackled up to abandoned cabin. Then across to the south west corner of Pleasant Park and back to El Tovar. Had supper and slept in Bright Angel Point for the night. Missed left time and climbed steep to Desolation and Karpan and intermediate ways which they gave away. Cost some damage to young trees.

Camped about 100 miles south of dead famous, probably elavated.
Counted 250 deer mostly in VT Park as we returned. Mostly--- and count of hundreds of old bucks half grown, a foot wide or more. I want to camp at calf Isolating Hollow at Coosh Springs at Lookout Lake and Lake Lake. Also want to stop at Big Springs in the Robert Park. 3rd of July has complete half grown and much better by evening. Garth's Indian room is empty. A few pigeons next Lookout Lake. Old burned one old small giving milk. Have aphid frost at Big Bald Point.
June 9. At Reight Angel Point
Examined close stands at Ranger Station of old station
remains. Found close up thick
and thifty young stands. Prices
and parts in muskeg.

Grounds much clearer.
A little wild mountain flowers in
remains being eaten. Old
willow and willow, Cassins alaska
to half of this people.
Gives talk with tenison
a mile or three in evening.