

U. S. Department of Agriculture.

FIELD DIARY

OF

Mr. E. A. Goldman

Jan. 22 - Feb 8, 1927

(Official title.)

Utah-

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D. F. Houston
Secretary of Agriculture.

8-2587

(Sat.)
Jan. 22, 1927
Fift Washington, D.C. for
Salt Lake City, Utah, 10.20 PM

Jan. 23-24,
En route to Salt Lake City, Utah.

Jan. 25.
Arrived Salt Lake City, Utah,
2.35 P.M. Was met at Newhouse
Hotel by Mr. D. H. Madson, State Game
Warden, Mr. L. M. Windsor, Bureau of
Public Roads Engr. and Mr. Pitzer,
Chief Deputy Warden, and arrangements
were made for starting work
tomorrow. Went to Hotel Utah later
where I found a number of Forest
Service officers and others whom I
knew who had been attending a
stockmen's meeting. An invitation I
attended stockmen's banquet in
evening.

Ogden, Jan. 26
Lucin cut off - width of
gap 580 feet

W. H. Lundy, Chief Engineer
Ogden.

Still having trouble on Lucin
cut off. Material is added
from twice to three, Long Pipe
about 110 ft. long used.

Mr. Lundy says sanding at
heads on Lucin cut off has
shown depths of 20 - 26 ft.

Wind direction mainly from the
North.

A. W. Grix, Asst. Engr.

S. O. S. P. R. R. Ogden.

Left Salt Lake City about

8:30 A.M. with L. M. Wilson,
by auto driven by game warden Perry.

~~U.S. Fish Comm.~~

Bureau of Fisheries

See Map. of Arizona and report
later pub. about 1912.

V. F. Davis, Supt. Bear River Club
Brigham R. A. P. 2.

Reached Ogden about 1 P.M.

Spent part of afternoon with
So. Pac. engineers who furnished
much valuable information.

Later saw Mr. Fitch of the
Bureau of Public Roads, and saw
Mr. J. B. Locke of the Forest
Service. In evening Locke look-
ed to meet Mr. Bigelow.

See. Treas. of the Bear River
Club and Mr. Day the President
of the same club. All furnished
considerable information.

Jan. 27 (Thurs),
Left Ogden about 9 AM.
and met Mr. J. S. Hull near
Hot Springs and we proceeded
to explore the Lake off the
long point projecting out
below Willard. We went out
to what appeared to be the
deepest water about $\frac{1}{2}$ way
way across to the point along
Bear River. We found depths
of water of about 3 feet and
soft ooze the bottom of which
was not reached by pushing
an ordinary shovel down.
We decided that to build a
dike so far south would
be impracticable. We then
upland and work soundings
along the east side further

Jan. 27 con.
north end found the deep
water extends at least a
mile farther north. Shallow
water was found in Marsh
Lake, a portion of the Lake
nearly separated by a bar
extending in a general way
along a power line, other
observations were made near
Willard where there are
large quantities of gravel
available.

Mr. Hull says:

Common teal most abundant
breeds. Leave between Sept. 1st
and Oct 1st - very few left after
latter date. One killed at
Dec. 27, very unusual, last year.
Mallards remain in some

numbers throughout the year.

Redheads formerly nested abundantly, but reduced about 50% due to losing holes through sack water that killed holes.

Pintails appear to be increasing on nesting grounds. Some stay all winter and remain in large numbers until December. One of the earliest to ~~return~~ return in numbers in spring.

Blue bills now nesting here. Two years ago he saw first nests. Usually leave with hard freezing in January.

Goldeneye comes in in Dec. in fair numbers and stay until hard freezes.

Godwall. now nesting here. and numbers come in Nov.

Frost noticed 3 years ago when
picking up sick ducks.

Pintail. about 90% of ducks
that are poisoned are pintails.

Curlwings. Nest on high ground,
such as public shooting ground
are increasing in numbers.

Avocet. Nest in abundance.

Glossy Ibis. Scarce 20 years
ago, but thousands now nest
in tall flags or tules.

Shore birds nest in great in
great abundance and are
increasing.

Cavala gull. Nest in
abundance. Some remain all
winter.

White geese. Come about
18 to 25 of Oct. early and all
leave first hard freeze.

M. Hull says: con.

Leakling geese. Leave about same time as white geese and leave with bad freezing weather.

Great Salt Lake. Does not freeze any winter at north end as this year.

Mustering geese. He estimates 200 square miles. Grazing cattle destroy many eggs.

Poison. He estimates not over 1500 lost this year, owing to measures taken to scare them out by shooting and taking them to fresh water. Also reduced number of sick ducks owing to lack of feed in places where they usually get poisoned.

Shrimp fed on by ducks favors brackish water. Fed on largely

by dubs.

Wetland grounds, Great swamp
areas make wetland grounds north
of side of Bear River adjoining
Bay.

Jan. 28 ^(Fri), Brigham City, Utah

Data from maps:

Highest level of lake	4215.9	in 1868
Lowest " " "	4199.15	Dec. 15, 1905
Present " " "	4205.6	Dec. 15, 1926
Meander line " " "	4204.4	of 1856

Fluctuation between 1905 and 1926
from 4199.15 to 4208.3 the
highest point being in May 1924
Maximum variation 9.2

Made a trip with Winter,
Terry, Hull and his son Ray and
to Provo Club in Bear River

Jan. 28

Agelaius vocifer. One seen searching for food along the edge of partly open water bordered by half frozen mud banks along ~~a~~ an overflow from Bear River.

delta by auto, a distance of about 23 miles, and then on foot over the ice and through the frozen marsh to the mouth of Bear River. Off the mouth of the River we made soundings and found water perhaps 2 ft. in depth. Then we made an examination of the dike built by the Bear River chert. This structure was built of mud with inch boards driven down and fastened to form a retaining wall on the upper side, and for a part of the distance on the lower side also.

Weather. When we were nearly back to the cars a blizzard weather broke suddenly. The wind blew and it snowed.

Jan. 28 con.

for more than an hour steadily, but slacked up later in the evening.

Mallard ducks, a few seen in open water along Bear River today, but very few ducks of any kind seen.

Musk Rats, a number of holes were seen in the levee of the Bear River Abut., and it is evident that they weaken the fill in places and cause breaks. A new small break that we found was probably caused by them.

Microtus, Meadow mice fairly swarmed in the Bear River delta. Runways and holes are everywhere and owing to the height of the water

Jan. 28 am,
caused by the backing up
over the delta of River ~~water~~
due apparently to the freezing
of the lake many of the
mice are forced to seek
higher ground. A number of the
mice were seen and in one
place where we turned over
a boat we found a blackish
shrew, that ran into a microtus
runway where I caught it in
my hands.

Jan. 29 (Sat.). Brigham City,
Utah.

Trip with Windom, Terry and J.S.
Hull to Pelican Point and out on
the ice in the direction of the Bear
River delta, a distance of probably
at least 4 miles. For about 2 miles we

Jan. 29 con.

walked most of the way through
mud of shallow depth at first, but
deepening we sank in it to our
ankles, ~~then came~~ and then came,
an inch or two of water over the
mud, succeeded by a belt of rotten
ice over water about 2 inches deep,
then came about 2 miles of
ice that would support our
weight, but varied in thickness.
At one place we came to an open
lead about 15 ft. across with
water about 15 inches deep. This we
crossed wearing rubber boots and
continued on over the ice for
at least another mile when we
came to a broad space, partly
open water and partly thin ice
which in places would probably
support a man. Perhaps 600 ^{feet} across

Jan. 29 con.

this was a line of ice hummocks ~~which~~
beyond which few hummocks were
visible. When we reached the second
open water the air was thickening
rapidly and we decided that it
would be prudent to return. In a
few minutes it began to snow and
for a while the mountains and
landmarks in every direction were
obliterated except that shoreward
we could dimly see our cars
and two small neighboring ~~clad~~
houses. On reaching the cars we
began our return and the
weather again cleared somewhat
as we reached Brigham City about
5 P.M. at 6.15 Wilson and I took
the stage to Tozan. Perry returned
to Salt Lake City. Arrived Tozan
about 8 P.M.

Jan. 30 (Sun) Logan, Utah,
Made a trip with Mr. Smith,
vice-president of the Cache
Valley Game and Fish Assoc.,
to the site of a proposed
bird refuge in Cache Valley.

The Utah Light & Power Co. is
financing the construction of
a dam on Bear River at the
lower end of the valley which
is expected to impound water
when full backing up into
the valley where it is broad
and likely to attract many
ducks. A portion of the basin
embracing a section about
 $1\frac{1}{2}$ miles wide and 2 or 3
miles it is suggested should
be set off as a refuge. This
seems an excellent plan pro-

Jan. 30 con.
vided there is sufficient
water for this purpose.
There seems some question of
this however, as the water
would be at its height
probably for a short time
about the 1st of June. A
visit was made to the dam
and electric power plant
which is said to have cost
about \$5,000,000.

Jan. 31 (Mon.) Prosham City
Ruled early in morning
from Logan to Prosham City
left Logan 7 a.m. arrived Prosham 8:30 a.m.
Mr. J.S. Bell says
in public shooting grounds
17000 a. in spring day Oct.
1, 798 men registered to hunt,
killed about 3500 and used
an estimated 55000 shells,
open twice a week. Amused
between 50 and 100 hunters,
~~number~~ number varied all
the way from 25 to 300.

Made a trip into country to
near north edge of Willard Bay
a few miles east of the mouth
of Bear River, but we got stuck
in the rotten ice where water
had spread over saline soil

Jan. 31 con.
and were obliged to return
to town and we then went out
to the Public Shooting Grounds.
There we found diked areas,
the dikes extending to ridges
or islands of high ground
commanding excellent views
over what were bare tracts, now
partly flooded and in which
duck food, especially the so-
called potato ^{mats} ~~wheat~~ is gaining
a foothold.

Feb. 1 (Tue) Brigham City, Utah.
Made trip to Bear River blind and
then down over Klondike point part
of wagon and then out to middle
of lake on foot. Wagon got nearly
stuck in mud at considerable distances
from edge of water and we were obliged
to wade through mud which deepened
as we neared ice, for about 4 miles,
then came about 2 miles of ice ~~at~~
In the middle we found open stretch
of water about 200 yds. wide, ^{and about 18 in. deep} and
ice piled about 25 ft. but in water
only about a foot deep. Bottom
soft and we conclude this route
must be given up.

Feb. 2 (Wed) Brigham City to
Salt Lake City, Utah.
Made trip with Windsor Hull, Roy
Hull, Mr. Evans & Pres of State Game
Association to ^{Provo, Relief and} country in delta of
Bear River and over on foot over
ice to west where we were able
to get an idea of extent of territory
that would be flooded by extending
dike in that direction. Left with
Madsen in evening and returned to
Salt Lake City. Madsen says:
Bear River blind claims 9000±
12000 a.
Dixieville - 160 a and
perhaps quietan is.
Provo blind - 40 a
Cedar Valley - Presumably
none.

(Thurs)
Feb. 3. Salt Lake City,

Morning devoted mainly to conferences
with Ray R. Woodley who furnished
data needed. He is familiar with
R.R. cut off, and worked on it, but
is now with Geol. Surv. I believe.
Also conferred with Holman and
in afternoon with D.H. Madson.
and had interview with Governor Dern
who was friendly and expressed hope
that project would go through.

7th. 4 (Fri) Salt Lake City Utah.
During June Windsor:
Ruin discharge in recent years ~~1965 580~~ 1 acre ft.
Ruin flow ranging from
750,000 to 2,600,000 with
av. about 1,750,000 acre ft.

1 sec. ft. equal 1 acre inch
per hour.

About an hour with Windsor in
morning discussing final plans. Then
conferred with Madson and in
afternoon with Holman and Finch,
Pres. of Duckville Club. Finch offered
to be of any possible assistance.

Left Salt Lake for Cheyenne
9 P.M.

Feb. 5, Cheyenne Wyo.
Arrived Cheyenne 12:40 P.M.
Conferred with State Game
Warden Bruce Nowlin with
Gov. Emerson and with Chas.
J. Buyer.

Feb. 6 Cheyenne en
route Wash. Dc.

Left Cheyenne 11:50 AM

Feb. 7. En route
Wash. Dc. Arrived Chri. 4 P.M.;
Left Chri. 5:30 P.M.

Feb. 8.
Arrived Wash., Dc. about
5:30 AM (train due 4:30).