

Journal

Philip A. DuMont.

checked

December 7, 1933 to April 1, 1934

December 7, 1933. Des Moines, Iowa, Polk County.

Mr. Charles Lepley of the Spirit Lake (Orleans) Fish Hatcheries, brought over the Ford Tudor Sedan Official No. 2946, which had been in use by Fish & Game Department at Spirit Lake, and we then started for Ames. Tires all appear to be in satisfactory shape; lights just replaced (34 watt), oil changed at Spencer (S.A.S. 40); batteries seem well charged, horn O.K.; water pump leaking a little; but in good shape otherwise.

Loaded in army locker, suit-case, laundry bag, duffle bag of blankets, cartridge bag, & gun.

Mileage at start 44932, gas tank about $\frac{3}{4}$ full. Stopped at Fish & Game Office and secured a copy of Crane's Report on 25 Year Plan. Also some clippings from Saunderson. Schuerke told of seeing a Black Hawk on either Dec 5 or 6. Can't remember locality.

At Ames stopped at Highway Commission and secured most recent maps of Clay, Palo Alto, Emmet, & Dickinson counties (\$.25 each), also smaller copies (gratis). They (a Mr. Jones) looked up the original tracings of the Iowa Lake Survey of 1916 and is having blue prints made, to

to mailed up. at ag. building, in soil's office secured soil maps; the U.S. Jones having large size maps, and the state survey being smaller. at Biology Bldg. saw Hendrickson, Evington, Knight, Guthrie. went over to Bennetts. for ans. barrell. He will be up Saturday. Evington offered accommodations in farm house (Gilbert Myers) where one of his assistants, Beal Spaw, is staying. Saw Col. & Mrs. Barker out riding. Lunch & cigarettes .58¢.

Saw a Rough Leg Hawk hanging on fence in Hamilton County. Saw one Marsh Hawk and one Short-eared Owl.

Gas at Belmond, 8 gal's: 1 qts. oil change. went to Garner, then west to Ruthven & on the gravel from there to Spirit Lake. arriving about 5:00. Gas tank read between $\frac{1}{2}$ & $\frac{3}{4}$ this.

Gas at Spirit Lake, 6 gals; 1 qt oil change.

Ate at Lakes Cafe, supper 40 - breakfast - 25.

Stayed at Antlers Hotel, \$1.25. Pub. .15

Mileage 45159 or 226 miles.

Went out to see Harry Tennant.

Left car out. Tested down to 0 in radiator.

December 8, 1933. Had to have car towed to start.

Oil too heavy. charged .75¢. storage would have been .35¢. Mileage 45.15¢. Drove west on #9
 Dickinson County, Spirit Lake township, section 31,
 and Center Grove township, section 6, both shown
 as marsh or lake areas, are all dry. would be
 good for wintering chickens. would need to be
 X reflooded for ducks. Look up ownership. Also
 former marshy pond at north end of West Okoboji.
 between Rock Island's West Okoboji station & lake.
 Now nearly dry. a small area mostly in Diamond
 Lake town., sections 35 & 36.

Not much along west edge of lake except a
 couple of tracts already posted as game preserves.
 such as at Lakeview station on Miller's Bay.

The marshy slough, now dry in Lakeville town.,
 sections 23 & 26, south of Miller's Bay & west of
 Gull Point, looks like it could be reflooded. Look
 X up ownership.

X The former Lake arm, south from Emerson's Bay,
 & west of Turner Park in Lakeville town, sections
 35 & 36, and Okoboji town, section 30, is now
 a splendid chicken roost. also a few (1♀) pheasants
 must use it. Put up a flock of 18 chickens
 on arm nearest Pockhontas Point. Could

easily be flooded by opening retainer wall (not over 4 feet above present water level) & allowing to fill in. Check entire ownership. Pastured all about at present & camping on north end.

Large flocks of water fowl were feeding off Pocahontas Point. Drove up in car & far-looked the mass. All except Coots flew out into middle between latter point & Eagle point.

Estimate of Mallards at between 5 and 6 thousand.

Coot estimated at 150 and later as they swam back in, counted exactly 175. Herring Gulls were estimated at 120. May have included some Ring-billed Gulls and Bonapartes. One only of the former seen. American Merganser, juv. or winter plumage (?)

25+; many of these diving & feeding off Pocahontas point. Coots also bringing up strips of eel-grass (?) Golden-eye, all in low plumage. 100+; Scarf, 15+; other very white ducks too far out to see may have been ♂ Golden-eyes or ♂ Am Mergansers.

Bronzed Grackle, 2; & Tree Sparrows, several seen. Also a Rough leg Hawk. About as many catbirds as Jack Rabbits killed along the road. Crows were feeding on them. as they were also on a dead cock pheasant.

In Spencer bought hooks .05; chum-cloth .05,

loose-leaf note-book & fillers .25¢, two journals .90. +
hard latin .10. Lunch .80¢.

Called on Mr. William Woodcock, member Conservation Board. but he was out on field trip.

Country along Little Sioux River from Spencer east & south, mostly wooded (scrub oak), and its principal importance is for the feeder streams from Okoboji, and lakes around Ruthven.

* The marshy area in ^{clay country} Greenman town, sections 1, 11, 12, 13, & 14, is the area known as the "Outlet" to Lost Island Lake, which in turn was, or could be connected with Mud Lake. Formerly it was flooded, but at present is dry enough for cutting of marsh hay. Bennett has estimated it at 1000 acres.

About 75 Blue-winged Teal nested there last year, but I believe hay cutting disturbed them in the middle of the setting period. Has been a Prairie Chicken wintering ground. Water level lowered because of dam across south end of Lost Island Lake.

But reported that within past few years that water backed up in the outlet almost to top of dam trying to run back into Lost Island Lake.

Dam could be built across north-west corner of the north-west quarter of section 14 in Greenman town, where stream (unnamed) flows occasionally.

(beginning there) south west & west to Little Sioux
River. Check ownership to land.

asked for mail at Ruthven Post Office and came
on out to Gilbert Myers farm home on Lost Island
Lake. Met Spear and we checked maps etc.
Went out about five to watch for pheasants.
Saw one fly out of the corn field into the marsh.
Heard a couple of others. drove into town
for mail & got a pint of alcohol in radiator. -10¢.
meals at Myers supper & breakfast.

Milage 45 220 - 71 miles.

December 9, 1933. Wrote up notes & started note book during first part of morning.

Look up the Outlet: ^{state owns 40 acres in north west side} Sluiceway; Pasture; Brown's Slough (Palo Alto Co; Highland town, section 4. Some owned by state already); Lake in north end of Medium Lake.

Met Mr. Bragg, local editor of Ruthven Free Press. Also Mr. Hadley, Veterinarian; Maps (blueprints) arrived from Highway Dept. Bennett arrived at noon with ^{Ronald} Wallace.

Drove into Ruthven and chatted with Bragg about some of the localities listed above.

Then drove out to Brown's Slough. Some water in it. Constitutes the inlet to Lost Island Lake. By acquiring the "Outlet" & putting a dam across the southwest corner of it, & removing the dam between that meadow and the "growing pond", the water from Lost Island Lake could help flood it. Also it might help back the water up into Brown's Slough. Bennett suggested the blasting of a channel between Lost Island Lake & Mud Lake, the latter to provide a breeding or spawning ground for fish. To keep

the water from Lost Island Lake from running back into Third Lake, in case a channel was made, a small dam would need to be put across the ditch on west side of Third Lake, near the Ot Lodge Shooting Club.

Later in the afternoon Bennett, Sparrow, Wallace, & I walked all around on the frozen surface of Third Lake looking for crippled ducks & Prairie Chickens. Saw about three of the latter. Picked up a few cripples: Mallard, Loach, Ballpate, Coot, & Bittern. Bennett shot 3 ♂ Red-wing, & I shot 1 ♀ + 2 ♂, from flocks aggregating 130+. A few Grackles were mixed in.

By the gate leading into the Ruthven Shooting Club shack, saw a flock of 30+ Grackles & 6 Starlings. Collected one ♂. (Clay County 4 miles N.W. of Ruthven). First Clay County record.

In the evening skinned out all except one Red-wing. Bennett, Sparrow & I doing the specimens. Went in town to talk to Bragg again & met a few other townspeople.

45 220 - 45 244 - 24 miles.

miles at Myers - 3

December 10, 1933. Up at 7:00 (at Myers) and
 drove in my car with Bennett, Brown, & Wallace,
 into Ruthven for coffee & on over to Spencer, Milford,
 & west to Pocahontas Point. Clear. Cool, bright
 sun. No ducks feeding off Pocahontas Point, but
 a big raft noted nearer Eagle Point. Drove around
 onto south side of Miller's Bay & a flock of
 about 8,000 Mallards were directly off shore.
 A few Am. Mergansers, Golden-eye, & Loons mixed
 in with the others. Also a few Herring Gulls on
 ice edge. Drove around (south) outer edge
 to Gull Point & tried to get some base shots
 at Am. Mergansers or Golden-eyes. A number
 (less than 100 & 25 respectively) were seen flying.
 Also gulls. Off Eagle Point were several
 thousand Mallards & the large raft of Coots.
 Probably the same number as on Dec 8th.
 Also saw Chickadee, 2; W-B. Nuthatch, 1; Tree
 Toad, 200; English Sparrow, +; Oriole, a few.
 The dry slough west of Gull Point, or south
 of Lake Side Laboratory would hardly prove suitable
 for anything except wintering Chickens & Pheasants
 over.
 Bennett thinks Garlock Slough, south of
 Emerson's Bay, would never prove of much

importance as a duck breeding area unless there would be some means of insuring a permanent water supply. The surrounding hillsides, if unpostured, would be satisfactory for nesting areas, as would the edge of the slough. But without water for growing ducks, none would be brought through. The adjoining West Okabji is without protective cover for young ducks. Possibly a channel might easily be blasted or dug through the few feet separating the slough & lake (maximum height of present dam only a few feet), but instead of allowing the water to run into Garlock's Slough, this channel might only allow the flood water from the surrounding water-shed to run off into West Okabji. Therefore a control gate would be necessary to hold the flood water, later allowing water from West Okabji to maintain this level.

drove back to Spencer & up to Round Lake, Clay County. Very windy, duller. Several flocks of ducks flying in and out of the preserve. The found one washed out on the frozen surface from the northwest. A few cripples were found either dead or dying. One ♂ Mallard died as we went to pick it up. Also secured a few ♀ Mallards, a ♂ Pintail, & a ♂ Green-winged Teal.

The flocks of Mallards ^{that} were resting on the ice near the middle of the lake started to get up in clouds.

Towards the center the water was open, supposedly kept open by the body heat (?) + milling around of the thousands of ducks. It was impossible to estimate the numbers. I thought somewhere between 15 and (25,000) Bennett estimated fifty thousand, and there may have been. The air was full of them looking like swarms of gnats. Saw one of Pintail, + a Golden-eye, also a couple of Loons.

Picked up on 7 Black Ducks near north end of Lost Island Lake (dead). Also saw a few Black Ducks in the flocks of Mallards on West Okabiji. My first Iowa record.

Met Ross Moses + his deputy warden, a Mr. Hoover, when we came out from the lake. Mr. Moses drove back to Myers with us and we discussed at great length the plans + possibilities of my work. He offered to help anyway he could, by either suggestions on good areas or by taking me around anytime I could come over to Emmetsburg.

He spoke especially of Union Slough, Kosciuszko County, and the island in north end of Medicine Lake, at Emmetsburg. Also he said that the woman owner who held the 160 acres surrounding

Round lake on the west & south, would be willing to sell for a low figure.

Bennett & Wallace returned to Ames about noon, & Spaur drove to South Dakota. I worked on notes, maps, etc. in afternoon.

45244 - 45326 - 82 miles

Bought gas at Milford. 5 gal. 1 qt oil change.
Meals at Myers. dinner & supper.

December 11, 1933. up at 7:00, and breakfast. Sorted blue-prints etc. Timely ready for field work. Had to have Mr. Myers push car to start it. Cold, below zero! Got mail and had lunch in town.

Drove south to Virgin Lake. Palo Alto County, making notations on blue-prints. highway map. Bennett told me this lake was very poor for ducks. No feed. no cover, and no nesting areas. Banks are slightly steep, pastured bare. No rushes except along north. Marshy areas amount to only a few acres. Some small section (1 or 2 acres) already posted.

Visited Elk Lake. Clay County. Very good duck grounds. Full of duck food (Bennett), rushes along northeast and west. Slough on south-east should be acquired. water-level held (controlled) by gates + removal of tiles, + hillside to ^{west} north acquired for nesting area. Prohibit pasturing. North end marshy but not extensively so.

Silver Lake, on south, is more of a recreational lake. Banks are bare, through pasturing or cultivation the only marshes are small ones on east + south-west. No rushes in lake. Good value of lake unknown.

Farther south is Rush Lake, another recreational lake. Pastured or cultivated to the edges. A new

gravel round has been built around south edge, providing also picnic & recreational areas.

There is no vegetation in lake. However if marsh on south-east, & small one on east, could be kept filled with water vegetation might be raised to protect growing ducks. The northeast edge is a large (somewhat) prairie pasture, heavily pastured, which would provide duck nesting cover if cattle were kept off. The problem is a growing area. Above back by way of Leesville.

Saw 5 or 6 Rough legged Hawks during the afternoon. About half dark half as to light & dark phases. White at base of tail is a good field mark; also black spot on wing, under-surface. One ♂ Marsh Hawk seen; several crows; a Hairy Woodpecker, Junco's, Tree Sparrows (several hundred), a Pheasant or two, Mallards, 4; Short-eared Owl, about eight; Sepulchral Longspur, several thousand. These flocks may have contained some Chestnut-collared (?)

45386 - 45395 - 69 miles

Breakfast & supper at Myers.

December 12, 1933. up at 7:15. Temp. 6° above.

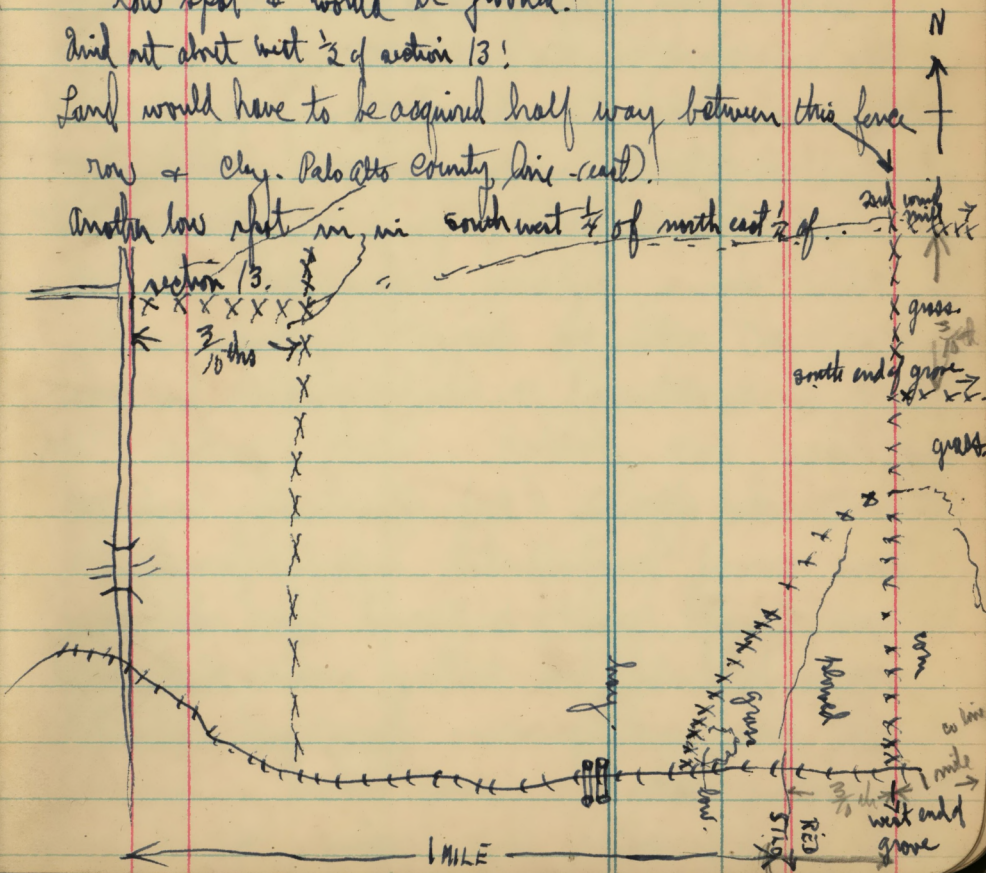
Look up ownership of large (~~100~~³⁰ acres?) dry slough south
side of pavement, probably Clay Co. Freeman town, sec 23,
east $\frac{1}{2}$ of the northwest $\frac{1}{4}$. Does it drain into the outlet?
at present rather closely pastured, but mostly overgrown
with short rushes.

the outlet. Does the slough mentioned above drain into (north) the outlet? To whom does the south-east corner of section 14, Meunier town, belong. It appears to be a low spot & would be flooded.

Drilled out about west $\frac{1}{2}$ of section 13.

Land would have to be acquired half way between this fence
row & clay. Palo Alto County line (cont).

Another low spot in, in south west $\frac{1}{4}$ of north east $\frac{1}{4}$ of $\frac{2nd}{1st}$ road $\frac{1st}{2nd}$ road



a larger sketch map will be made to show the exact lines.

From conversation it seems accurate to state that the high spot in about the middle of the east side is a water-shed & during high water that area & several others is exposed. Reckon must be taken of low spots if on proper not searched. Drove around in the Outlet & lined up the possible boundaries.

Flushed an adult duck hawk from one of the hay stacks in the outlet. It flew, with feet wing beats & small arc, out into the field, and alighted by a drake Mallard, which was half eaten, & badly frozen. Crop of Mallard ^{had been} ~~was~~ ripped open & contained corn. Most of the flesh in breast eaten off. Brought the duck in. Tried to drive up on the duck hawk, but no luck.

In the afternoon, took Hawn along and we drove around Trumbull Lake. Hardly any good cover, except next to Round Lake, where there might be developed a nesting area. About all of the other marshy areas have no adjacent nesting sites.

We found a huge resting raft of ducks

at the north end of the lake, & walking in from the west side we put up part of the flock at a time. A little less than half of the flock went up with a roar, and the noise of the thousands of wings and the unexpectedness of it was startling. Both Hawn and I agreed, independently, that the flock contained between 6, and 7,000 birds. Besides this many hundreds were flying from Round Lake northward. The rest of the flock got up in bunches and even more difficult to estimate than the first. Still it must have contained at least 8,000 birds. Most of this mass were Mallards but there were about 12 or 15 Black Ducks, and a few Am. Mergansers.

After leaving the lake we drove to Round Lake and there appeared to be thousands more still resting there. Certainly there must have been at least 20,000 to 25,000 ducks present in this lake area today.

We also saw a couple of Rough-legged Hawks (one light & one dark), a Short-eared Owl, Red-winged Blackbirds, Tree Sparrows, Downy Woodpeckers, Island Longspurs, & English Sparrows. A number of Pheasants were seen & west of the outlet. I saw 6 chickens

a big pile of mail arrived today, including some
 separates. Sanderson wrote that besides the travel
 expenses the Commission would consider allowing
 me subsistence as well.

45395 - 45439 - 44 miles.

Bought 6 gal gas, 1 qt oil in Ruthven. chgs.

Population of Ruthven 850

Altitude above sea level 1458 feet.

3 meals at Myers.

December 13, 1933. Drove in for mail & then contemplated surveying lakes in southwestern Emmet County. Brington wrote offering the assistance of Bennett after Jan 1st & recommended that at present I try & finish checking those areas already biologically investigated & found satisfactory, such as Round Lake, Mud Lake, Levy's Pasture, The Outlet, Green's Slough & Brown's Slough. Also Elk Lake.

Worked on maps to plot the present limits of Levy's Pasture & the Outlet.

Saw 9 Starlings in a flock containing about 30 Grackles & a few Redwings. At Myers place, 4 miles north-west of Rathbun, Clay County.

Saw Bragg and arranged for a meeting on Friday.

Milage 45439 - 45460 - 21.
& meals at Myers.

December 14, 1933. Spawen went with me in the morning to help check up the fence lines and land marked around the Outlet. Mist and a strong east wind was blowing before we were hardly around the plot. Visibility was too poor to carry on the work.

Saw Junco's, 2; Downy Woodpecker, 1 coll. (Clay Co. Between 3 miles north-west). Tree Sparrow, 200+. (coll. same place as above); White-breasted Nuthatch, 1; Pheasants, a few; Prairie Chickens, two flocks of about 120 each, flying from slough in Outlet up and over to a cornfield.

Sleeting so in the afternoon that windshield quickly covered & froze. Stayed in a real Crane report.

45460 - 45494 - 24 miles.

3 meals at Myers.

December 15, 1933. Sleet over evening. Cut a layer off the windshield of the car before starting.

About 116 Phalaropes got up from along roads in adjoining corn field. At northwest corner of Round Lake 30♂ 13♀. Headed back into marsh.

Walked around on the north edge of the open water in Round Lake, looking for cripples & dead birds. The area of open water was small, and apparently extending north-east & south-west. A fairly accurate check was made on the entire north half near the open water. Birds frozen in the ice or so near the water as to be impossible to reach were: Mallard ♂, 7; Mallard, ♀, 3; Coot, 1. Dead Mallards, not frozen in the ice were: ♂'s 5; ♀'s 2. These were brought back to the house. One ♂ died on way home. Live cripples that were caught were: Mallards, 3 ♂ including one male with green-head but adult plumage lacking except for a few feathers on breast. 1 ♀.

About two thousand Mallards got out of Round Lake & flew north-east to Trumhull Lake.

Others that remained were: Coot, 10; Lesser Scaup, 2; Canvas-back, 1 ♀;

after bringing the dead & cripples home and

trying to shoot some of the six Blue Jays seen around the house. Mr. Spaw and I drove back to the east side of Trumbull Lake. 11:15 a.m.

Partly clear, wind from north-west. visibility good. A tremendous raft of ducks was on the lake near the dam. Ducks started to get up as we watched, flying north-east, undoubtedly going out to feed. Probably the normal feeding had been delayed because of the sheet covering everything. Ducks were counted or estimated as follows: 450, 150, 150, 160, 200, 50, 60, 200, 200, 600, 1500, + 3000. Total 6720. Many of the estimates were checked by actual count, as the lines were well strung out, & flying directly over. Mr. Spaw & I agreed remarkably well in our estimates. It is safe to say that none of these 6700 returned to the lake while we were checking.

Driving to the south side little could be seen, but on around to the west and out through a farmers place we parked at the dam to the west of Trumbull Lake. Keeping in the cover of the line of trees extending out along the point Spaw and I crept out until we were within about 50 yds of the

nearest ducks. We watched for awhile from behind some trees. The water was open up to the point and birds filled the entire space. Additional hundreds covered the ice and literally blackened the water & ice. All appeared to be Mallards except one Black Duck and one Am. Merganser.

We then ran out onto the point shouting waving our arms and succeeded in putting up a good share of the flock. I have never seen such a multitude of ducks before. The air was absolutely full. As they swung in long lines to the north end of the lake we estimated as nearly as we could and agreed that there were at least 60,000 and probably 75,000. This estimate must be fairly near the real numbers as there certainly were three or four times more birds here than we found on Round Lake last Sunday. At that time Ross Moses and I each considered the flock to contain between 20,000 & 25,000. Bennett & Hoover called it 50,000.

When these birds alighted at the north end the raft extended nearly across the lake & seemingly several acres in extent.

The theory is advanced here that the ducks
serve to keep the ice open by paddling around.

This well may be true as the edge of ice is
quite thick & birds perch on it like a shelf.

There may have been birds left on West Abolaji
and Spirit Lakes, and others were reported on
Medium Lake at Emmetsburg. However, this
certainly must have represented the bulk of the
birds present in the lake region in Clay and
Palo Alto counties today.

Two Hoots Horned Larks were collected from a
flock of 8 west of Turnbull Lake. 1♂, 1♀.

Also shot a Screech Owl, that was perched
on a telephone wire, northwest of the outlet. Got
it about 5:30 P.M. a ♂, in suit of a gray-brown
plumage. May be alberti.

Worked on notes, letters, & skinned birds in the
evening. Talked to Mr. Bragg for awhile in
the afternoon.

45474 - 45515 - 39 miles

3 meals at Myers.

Saw 9 gpl. - charge.

December 16, 1933.

Find out exactly where the property line on Glen Green's Slough is. Land south-east not of any value as nesting area. Wet marsh south-west of County Road would make a good nesting area if unpastured. Has some high grassy parts as well as marshy growth.

Green's Slough has good food for growing ducks & good feed, but lacks nesting areas. These should be acquired:

Look up title to tract south-west of County Road. Places as mapped on Lake Survey.

Is area in south-west corner of J.M. Little's place state property?

Green Slough is excellent Pheasant cover with feed nearby. Pasturing should be prohibited. Perhaps the water level controlled.

In town for gas & mail. Finished checking off the fence rows, low and high spots in the Outlet, and determining which properties should be included in a game area.

The heavy frost started melting about 9:30, but before that the sleet & frost made quite a covering over everything. Drove along the west edge of the Outlet. Glushed

a flock of 130 Prairie chickens from the north-west corner. They flew with several quick wing-flaps and then a sail on stretched wings, the emarginated primaries showing plainly. Watched for sharp-tailed Grouse but saw none.

While sitting in the car, in about the exact middle of the huge field, saw two Coyotes up north, near the large haystack, near the dam to the growing pond. Recognized them as Coyotes and the glasses showed them up clearly. They would walk along a few steps, stop look around and then walk a little farther. They behaved a great deal like two dogs. When last seen they were headed slowly west towards some heavy sough grass.

Bennett forwarded a Golden-eye ♀ (or juv. ♂) that Mr. Knight had killed. Bennett thought that it might be a Barrow's but it has the broad bill (terminally) of the American.

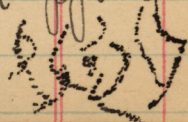
Drove to Green's Slough in the afternoon - Quite a few ducks on Round Lake, & a huge raft on Turnbull. Also saw a Rough-legged Hawk, Short-eared Owl, Red-winged Blackbird, 1; Brew Sparrows, 300+; S. P. Junco, 10 or 12; Crows, a few; Longspurs, 20 or 30; Horned Larks, 6;

Principal thing with Green's Slough is to duck up state-owned land, & stop pasturing it. A few more areas might be acquired for upland nesting ducks.

After driving north & then making the ~~right~~ turn down to the slough again, one comes out on some excellent pheasant cover. About 25 birds were perched (4:30 P.M.) in the tree at the corner, and I counted 56 that flew out of there, & the fields surrounding, flew into the slough. Easily 30 more flew out & into the slough. Here is the splendid combination of feed very near excellent cover. The numbers would attest to availability of nesting sites, where?

Drove on up to the north end where township road goes east. At present it is closed across north end of slough, but is open some times through the field. While here saw several more pheasants. About 4:50 great lines of ducks were flying south. The air was full of "vs", wavy lines, small bunches, large flocks & straight lines. After many of the lines had passed they swung & passed above & in the opposite direction to the lower lines.

It was a remarkable sight and



even more inspiring than the massed flocks on Trumbull Lake yesterday. One reason I suppose is because the sun had set and there was so much color in the sky for a background.

It was quite dark by the time I finally got to the house and Dawn and I drove into town for mail.

45515 - 45568 - 53 miles.

December 17, 1933. Isporn and I drove over to Round Lake to look for crippled ducks. Went in on the east and south sides. Only a small amount of open water.

About six thousand ducks got up and flew over towards Trumbull, while as many more moved over to another part of the lake, south and eastward.

We counted about eight Mallards frozen in the ice or floating in the open water.

Isporn picked up 3 dead Mallards and five live ones. Also he caught the female Canvas-back, which was crippled in both legs.

I caught eight live Mallards, 4 of each sex. One bird died before reaching home.

There were 13 Coots remaining on the open water, but the Bluebills were not seen.

The 13 live birds together with 3 that survived from Thursday were turned loose in Mr. Myers' chicken house. Some could run alright, but no strength in their wings. Others could flap along on their wings, but could not stand.

Com & water was provided & some started eating even while we were in the coop.

drove to Greene Slough late in the afternoon with Mr. & Mrs. Myers, & Mr. & Mrs. Spawny. We stopped at end of road on ^{west} ~~east~~ side of Trumbull to look at the ducks, but they were too far south to see well. Probably concentrated about the point near the dam.

Apparently we were too late to see the Phasant flight to the slough, as only 14 were seen. This is in rather marked contrast to the 100 or more seen yesterday afternoon. Did see a Short-eared Owl, Tree Sparrows, Longspurs, & Red-wings.

On the way back, when near Alway's pasture, with the sun down but the sky bright with color, the flight of ducks commenced, flying back to Trumbull from the east. There were really more than I had seen yesterday at Greene Slough. Line after line - great mixed or mottled flocks went over. Mr. Myers thought there certainly were more ducks there than he had ever seen before.

45568 - 45611 - 43 miles.
Gas .8 gal. 1 qt oil. chge.

December 18, 1933. Packed up my things and
 drove over to Spencer in the morning.

Paid Mrs. Myers \$12.50 for ten day room
 + meals. @ \$1.25

Stopped to see Mr. William Woodcock,
 member Board of Conservation, who lives
 at Spencer. He told me of the people to
 see at Court House. Mr. Merrill
 Moulton, County Recorder. Mr. Cliff McCowan,
 Asst County Engineer, + Mr. R. S. Barnard,
 Pres of local sporting organization, who works
 at Leach and Thompson Hardware.

worked on Plot Book. + Assessors book.
 Stayed at Langney Hotel. \$1.50.

Two meals at Refectory. \$1.50

45611 - 45630 - 19 miles.

December 19, 1933. Spencer. worked at clay County Court House.

Made tracings from Plat Book of all areas (sections) of Outlet, around Round Lake, Mud Lake, and several others. Talked to Mr. Ross Moses for about an hour in the evening.

One meal at Rexall, ~~two~~ at hotel.

December 20, 1933. Spencer. worked at Court House until noon. Paid bill at hotel. \$3.95, and had lunch at Rexall drug.

Had car greased at King Garage (Ford) in Ruthers. Also had oil changed (grade 20) at \$5.65. Had gone about a thousand miles since changing, & I have no idea when it was last greased. Water in bottom was low.

The four small upper leaves and long bottom leaf in front spring were broken. Cost of replacing with new spring was so little more more that decided in favor of that plan.

Also one shock absorber arm is broken.

and there is a leak in the radiator, both of which were not attended to. The rest of oil, greasing, new spring, spring clamps, + labor, totalled \$7.71, which was charged. Apparently the spring was broken some time ago as the ends were well rusted over. Only a single clamp held them together at one end.

Loaded dead ducks in car to take down to Ames. Also the fox carcass.

Had supper at Myers.

45.63² - 45.657

- 24 miles.

December 21, 1933. Left Myers at 8:00 a.m., stopped to see Mr. Briggs for a while, and then drove on to Emmetsburg, then south to Pomeroy, + east to Mt. Dodge, south to Balem + over to Ames + Des Moines. Was in Clay, Palo Alto, Pocahontas, Calhoun, Webster, Boone, Story + Polk counties.

Saw a Northern Shrike five miles northeast of Pocahontas. Also picked up a dead Rough-legged Hawk at the same place. It had been dead some time; in the light phase.

Saw a Rough-legged Hawk near Harcourt - 3 miles north.

delivered the 18 dead Mallards to Bennett at the College, also the Fox carcass. & hawk.

Talked to Prof Guthrie for quite awhile & looked at some recent specimens: Harlan's Hawk - Montane Horned Owl.

45.657 at start.

Paid for all gas & oil after filling tank at Ruthven.

December 23rd. 1935. Des Moines. Talked to Mr. Bode & Mr. Schenke at Fish & Game office. Apparently work is progressing along coast lines. Bode suggested a little deeper digging into certain cases where transfer of title might seem to be in doubt.

Asked in regard to repairs on car. Was advised to use my own judgement. Therefore I bought a .50¢ of "Liquid Baller" & two qt of alcohol. in Des Moines.

December 27th from Des Moines to Ruthven.
Paid for all gas, oil, & alcohol used.

December 28th. Ruthven.

Bought 5 gal. gas. 2 qt oil at Ruthven. charged. Also had new brush on generator, & a new fan belt, which puts power plant back into shape. Had registered discharge on ampere meter all day. charged this material to Fish & Game.

Came over at Lee's Cafe. at Myers overnight. Saw many Horned Larks along road. About 2 inches of snow. Temp. dropped to -30° below by midnight. Worked on records etc.

46580 - 46594 - 12 miles.

December 29th. 1933. Left Ruthven at about nine & drove to Spencer. Bought a pair of "wood choppers" mittens: - One pair wool inside a pair of leather. total cost of .74¢. Ordered a Royal portable at \$46.50 (\$6.50 down + \$10 a month). Had an Underwood loaned to me to use. Took looks out to be repaired. Put car in storage - 50¢.

Met Cole Van Gordon, his sister Martha, & father. all now living at Emmetsburg. Had lunch together & chatted for awhile into the afternoon.

Picked up two Prairie Chickens that were dead along the road & that were being eaten by crows. Will thaw them out & skin to determine whether shot or flew into wire.

46592 to 46612 = 20.

December 30, 1933 Spencer.

Wrote letters; got boots, 50¢; overshoes, 1.25;
Had breakfast at Hammis Caf. and lunch at Russell Lery.

Weather changed to above freezing. Streets rather slushy.

Drove back to Ruthven at 2:00 P.M. Asked for mail but there was none.

Mr. Spurre and I drove over to Round Lake to look for recent dead or crippled ducks. The entire flock that had been wintering had moved south just before last cold snap. Saw only

4 (perhaps 5) Mallards. We counted 13 Mallards frozen in the ice + 2 Coots.

Picked up and brought back to the house 22 dead Mallards. No live cripples were found.

A Scaup and (arkani) in the gray phase, with rather tawny legs, was shot by me at edge of Round Lake. It was a ♂, stomach

empty.

46638 - 46653 = 15 miles.

at Myers for supper & night.

December 31, 1933. Puthum.

Started in to town in the car, and due to the slipperiness of the road, slid off into the ditch, about a half mile from Myers house.

Then Mr. Spawen and I drove into town, in his car for a paper & mail. Mr. Myers hauled the car out with his team.

Late in the afternoon, with a rapidly dropping temperature, we drove out looking for birds. I shot a Downy Woodpecker in Bald City Country, north of Mud Lake about 2 miles.

Saw a Rough-legged Hawk over near the Outlet to Lost Island Lake. Also two sparrows & juncos. Spawen & I each shot a rabbit.

Mr. Spawen, Mr. & Mrs. Myers and I spent New Years Eve playing cards. Went to bed about 1:30 a.m.

This has been a rather uneventful year in regard to birds. About 194 species of birds were seen in Iowa, and only a few others were noted outside of the state.

46653 to 46663 = 10 miles

1934

January 1, 1934.

The beginning of a New Year is of particular interest because it may hold in store a number of things entirely unforeseen. In some ways 1934 will have to carry with it some very rich things to parallel the year just past.

Drove into town for 9 gal. gas + 1 pt of alcohol; charged.

Sporn and I drove to Round Lake and at eastern side found a flock of about 15 Thick-billed Red-wings, at least 3 Rusty Blackbirds (one collected); at least one pair of Combirds (Nooks?) (one ♂ coll.); one Hairy Woodpecker, Downy Woodpecker, 1; Goldfinch, 3; Tree Sparrows 150+ (1 coll.); Slate colored Junco, 25+; Earlier in the morning had seen Black-capped Chickadee heard, and 1 coll later: Blue Jay, heard; English Sparrow, Rock Dove, Pheasant, 3; Am. Crow, 3; Short-eared Owl, 1;

Looked for dead + crippled ducks on Round Lake. Counted, the two of us, 20 dead Mallards and one Coot frozen in. Picked up 14 dead Mallards that were frozen, also one Coot. Found one live crippled Mallard ♂. Saw 4 live Mallards. along the ditch

on north side of lake found 14 dead Mallards. These undoubtedly had gone out to feed in corn field & died without being able to return to lake. The characteristic posture of each bird when found was squatted with head back over back or buried under wing. All in all, 47 dead Mallards were picked up. 26 ♂, 21 hens, and 1 ♂ alive but crippled. Only 4 alive & able to fly. Thirteen frozen-in birds were counted last Saturday & 20 today.

Several flocks of Hapland Songspurs were seen. Typed a letter to Bennett in the afternoon. Attended the town play sponsored by the merchants of Ruthven.

Skinned out the specimens after getting back to Myers at 10:30. The birds were so frozen, from having been out on porch, that it was nearly an hour before they could be skinned. Got to bed at 2:15 a.m.

4665⁶3 to 46680 = 16 miles.

January 3, 1934. Packed things into the car.

A very frosty morning. temp. about 15° above.

Paid Mr. Myers \$50 + for hauling car out of ditch.
And Mrs. Myers \$3. for four nights lodging and nine meals.

Drove from Ruthton to Spencer. Saw 2
Prairie Chickens perched on top of hay stack,
near Fitzgerald's place. Also a Rough-legged
Hawk, in the dark phase, near Spencer.

Secured a room at Loney Hotel for \$6 a week.

Found out my Royal Portable had been ordered.
Bought a ream of typewriting paper, 15¢,
paper clips, crayons & a mailing tube.

Mail from Miss Sherman, Alon Roberts, Al.
Pellett, - Iowa City.

Had a call from Harry Sanderson, asking if
I could have one project reported in full in
hands of Mr. Darling tomorrow. As I had the
"Outlet" nearly finished I wrote up a historical
introduction, recommendations, listed the directory
of owners, and then listed the areas recommended
for purchase in three categories of preference.
These with a letter to Mr. Darling were sent
off on the 5:00 a.m. train. Also the maps
from the Plot Book, shaded to show areas

recommended for acquisition, were enclosed separately with a small map of Clay County for reference purposes.

The only point on which I think I may have fallen down so far, is the actual checking of transfers back to the patent from the Federal Government.

Also, it may prove advisable to check delinquent-tax lists or "scavenger sales".

Went to bed about 1:30 a.m.

$46680 - 46699 = 19 \text{ miles.}$

January 3, 1934. Spencer.

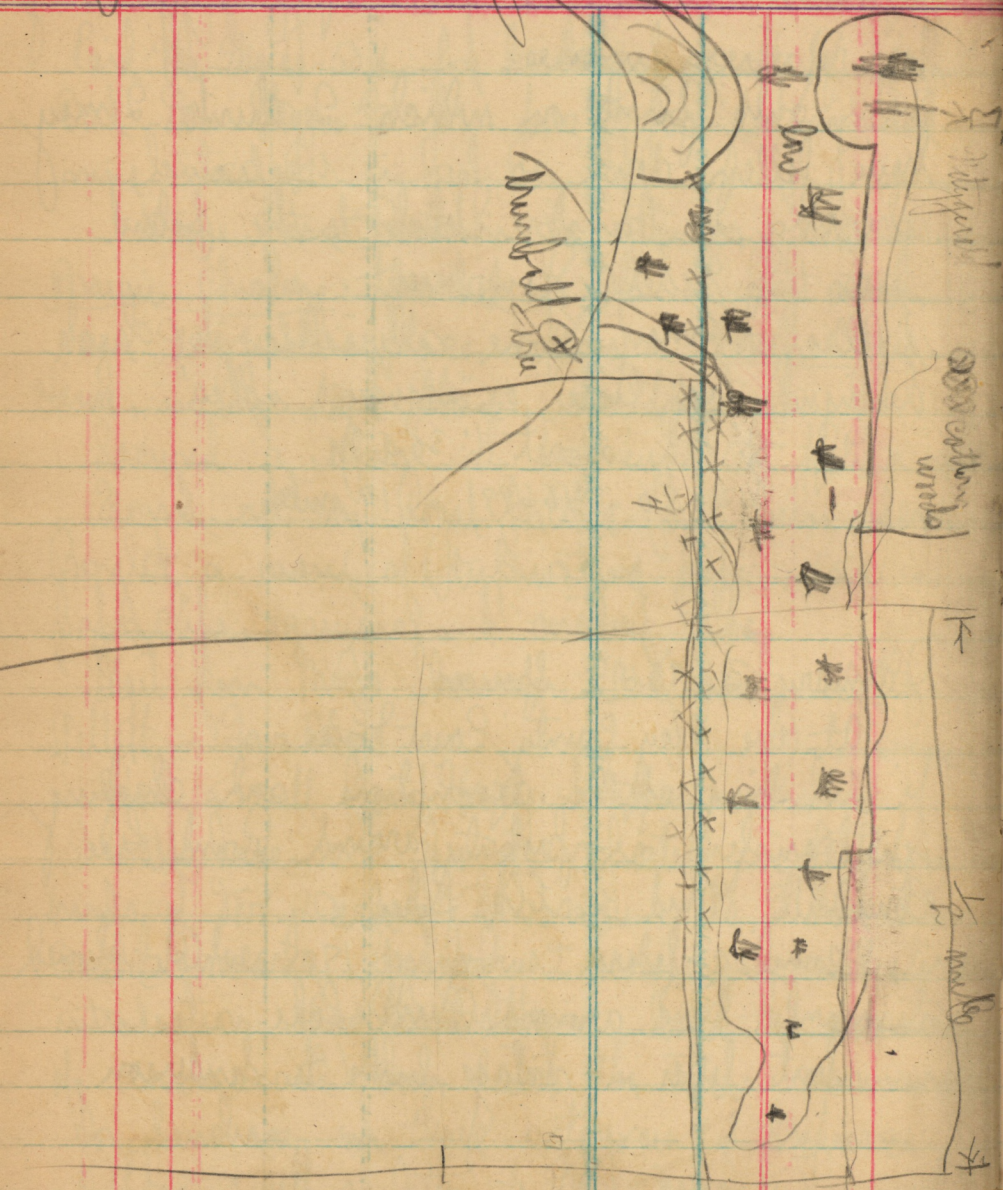
At the Clay County Court House.

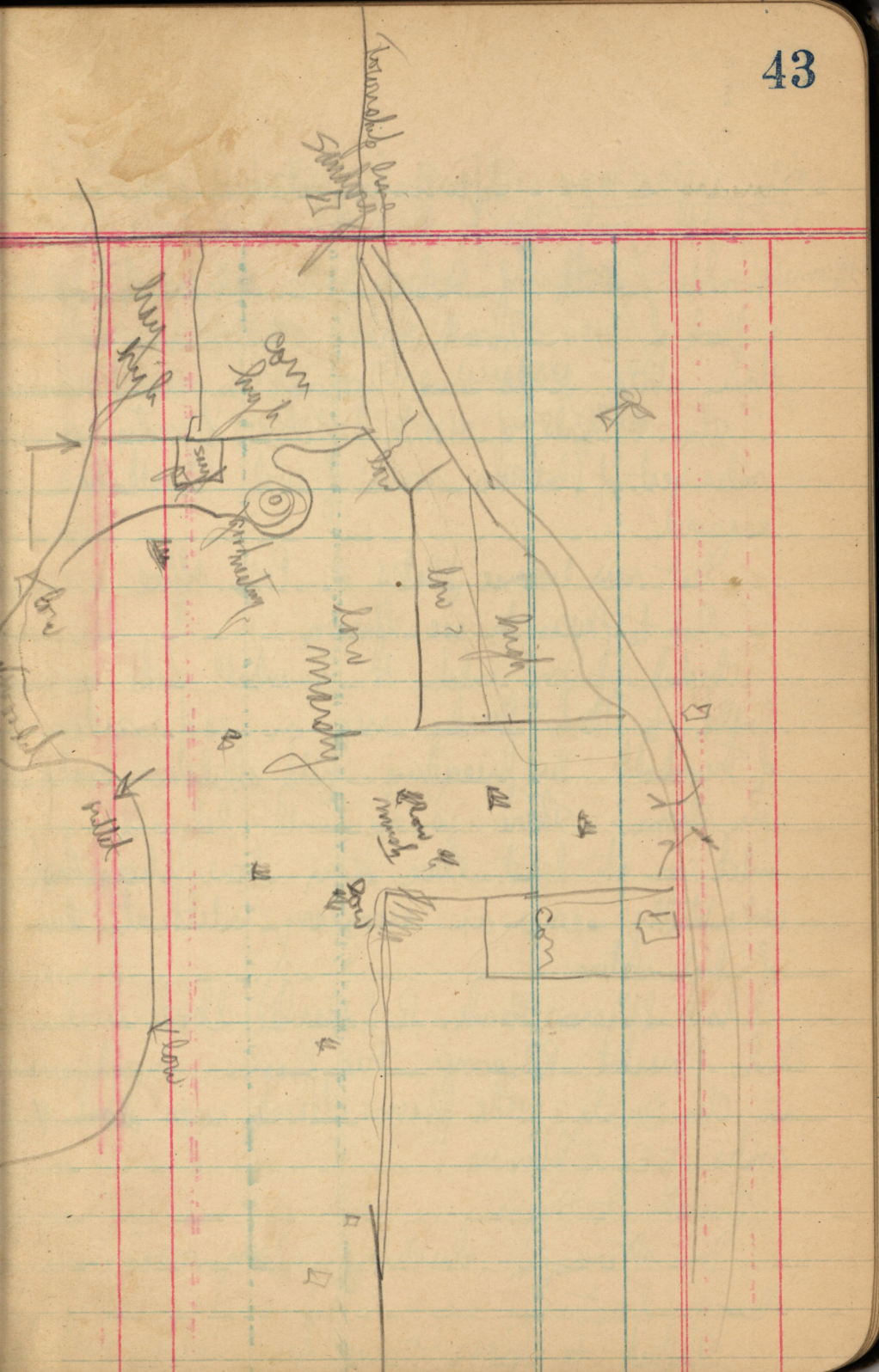
Finishing up the descriptions and checking the transfers on property around Round Lake, Grubbs, Mud, & Elk Lakes.

Found a federal survey of 1998 which showed a meander line around Mud Lake.

Sent letter & mileage books to Sanderson.

Jan 5th 1934. Clay County, Mo.





January 5, 1934 Left Spencer at 8:00 A.M. in light snow drove to Ruthven.

3 miles ^{west} ~~south~~ of Ruthven + $\frac{1}{2}$ mile south, found a flock of 40+ Horned Larks. Collected 6 on three shots. Birds were feeding on weed seeds.

The $\frac{2}{3}$ rds of NW $\frac{1}{4}$ of NW $\frac{1}{4}$ of section 3 miles west of Ruthven south of road should be acquired.

Got new license plates at Post office.

Out to Myers to see Spaw.

Checked up on inlet to Trumbull Lake or Outlet to Mud. Marshy area on east side of Trumbull. See preceding field sketches made in storm. There is one well-defined inlet + at least three other low places that undoubtedly serve as secondary inlets at time of high-waters.

Saw Sparrow Hawk. R. L. Hawk. Short-eared Owl. Pheasant. Red-wings, Tree Toad, Eng. Sparrow. in Clay County. The Sparrow Hawk was about # 3 miles S.E. of Spencer.

Lunch at Myers.

In afternoon checked along road by Lewis pasture.

Talked to Ross Moser for route awhile

at Davis. Reported the cripples collected. Also asked about his endorsement of collecting permit.

He planned to drop around Sunday to see Bennett. Back to Spencer at 5:15.

Worked on birds in the evening.

46699 - 46759 = 60 miles

January 6, 1934. Spawm & I had breakfast together & then to Court House. Got the copies that had been typed of the Court Minutes on the Green's Slough case.

Drove to Ruthven. Stopped in to see Mr. Bagg for awhile.

Watched the seining operation being carried on on Lost Island Lake by State Fish & Game. They completed their haul about 3:00 P.M. but got very little in the 3,000 foot basket net. Some Pike, Pickerel, a few Carp, a Blue Gill, mostly Bull-heads, + a few Perch.

Went out with Spawm looking for a flock of Hungarian Partridges. Found none. However, we flushed about 20 to 25 Pheasants from the cornfield, a flock of 16 Prairie Chickens; Later a count of chickens in tree tops along east side of Mud Lake, was 124. Certainly there were nearer 200. Also counted 25 Pheasants that got up from nearest part of slough. Some of these may have been counted in the earlier figure.

Drove over & checked some property lines around Round & Trumbull Lakes.

Bought 5 gal. gas & 2 qt. oil in Spencer.

Bennett arrived about 10:30 P.M. from Akron, Iowa.
He brought a Mr. Tate over with him from Hawarden.

His work has been on black-fly control and Bennett has about 115 men working under him, cleaning up gravel in stream bed. He talked until about one o'clock in the morning.

46759 to 46800 = 41 miles.

January 7, 1934. Into town for the newspaper, mail. Drove with Bennett & Hawn during the morning to have the former check on desirability of lands selected by me for acquiring. Bennett approved wholeheartedly of all recommendations and even urged greater inclusive measure.

Dinner at Myers and Bennett left about 3:00 P.M.

I drove back to Spencer about 5:00. Saw a covey of 13 Hungarian Partridges about half way between Dickens + Spencer.

46800 - 468~~55~~ = ~~55~~ miles
42 = 42 miles

Got gas. + 1½ qt alcohol.

January 8, 1934.

At Court House, Denver. Mail from Bode, approving of plan that I have been following in making comprehensive survey of larger areas with the view in mind of recommending lands for federal purchase as game preserves. This means that I will finish up several large projects to have them ready to shoot in when needed.

Had oil changed in car. ^{464 4B} 5 qt # 20 Polarine. + 2 qt flushing oil because oil was so thick + heavy from cold. Had tires + battery checked. Only drove a mile or two today.

January 9, 1934. Tuesday.

Spent all morning typing on Mud Lake, Denver Post, article from Mud Lake into Roundball, etc. A number of points in regard to the Palo Alto country part of Mud Lake came up so I drove over to Ruthven about 3:00 P.M.

Checked tax delinquent lands in Lake County enroute. Saw a couple of Rough-legged Hawks, + a covey of 6 Ring-necked Pheasants (west of Round Lake).

Spaun returned from Ames about 7:00 P.M. He had finished his Registration. Taking 10 hours of research for \$22. (ten is matriculation fee). He got my collecting permit signed by Hendrickson + Guthrie. He got some arsenic + shells + plaster. Both Guthrie + Brington approved of his collecting + glad of his chance to learn from me. Nice compliment.

In the evening we all attended the Lake Center Farm Bureau meeting, at the Lake Center School. About 100 people in attendance. I gave a 30 min talk on Madagascar. All were quite attentive. Spaun talked on grasshoppers. County agent, Paul Brinimback, immediately wanted to "sign me up" for about five more talks at similar meetings.

$$46842 = 46865 = 23 \text{ miles}$$

Supper at Myers

January 10, 1934

at Putnam overnight, last night. Then out with Spaun this morning to look over some of the lands about Mud Lake, especially the south end and the Palo alto County portion.

Into town + got separates from Norman A. Wood on Tinker's paper. Helped Spaun buy some supplies for bird skinning.

To Spencer where letter from Bode urged immediate haste in finishing up two or three projects to have ready if Darwin Mr. Darling wanted them. He urged me to get in touch with Bennett to help check the lands.

When I was about ready to send Bennett a wire, a phone call from Moses at Emmetsburg saying Bode had called him asking for an immediate survey of Union Slough Absents Co; and a report on it to be sent to Darling, Room 217, Administration Bldg. U.S. Dept. of Agri. Washington, D.C.

Also the Barringer Slough or Outlet to Lost Island Lake project to be finished + included one other large project around Ruthven. Moses came over then about 3:00 P.M. I wired Bennett to come at once. Read Moses my write-ups. Then ~~we~~ went over to check Mud Lake, in Palo Alto County.

Had ~~the~~ supper at Myers, returning to Spencer afterwards. Bennett arrived about 9:30 P.M. from Woron. He read my write-ups. To bed about 1:00 A.M.

46865 - 46918 = 53 miles

January 11, 1934 Thurs.

Bennett. I left Spencer at 8:00 A.M. & reached Emmetsburg about 9:00. Road slippery, ice formed on windshield, & it was generally misty.

Met Moses & we drove then in his car to Alona, where we had chains repaired. Had lunch. Talked to H. M. Smith, County Engineer, about the slough. Met Dennis H. Gleders, Secretary of State Fish & Game Commission. He drove with us to see the slough.

We crossed & recrossed it, checked slough areas & marginal land.

✓ Saw a falcon, almost too large for a duck hawk, & dull colored. Sitting on a post. I watched it through binoculars but could get no markings. It certainly was a large falcon, & possibly may have been a ~~hag~~ ^{prairie} falcon.

Back to Mr. Gleders home where he called Fish & Game and reported to Harry Anderson. Then we returned to Emmetsburg where Bennett & I stayed all night. Had supper at cafe. In evening Bennett made a tracing from Smith's map of Union Slough and I worked on write-up, using Mr. Moses' typewriter.

46948 to 46946 = 28 miles.

prairie falcon?
see page 82

January 12, 1934, Friday.

Breakfast at the hotel. "lunch & Putham" supper at Spencer. At Palo Alto Court House, at Emmetsburg. I copied out the ownership, assessed valuation & acreage of property holders in Mud Lake project. & Bennett made the tracing from the Plat book. Finished about 10:00. Over to Putham, saw Bragg and asked some about land values. Out to Myers and then return to Spencer after having checked much of Mud Lake.

Bennett left at about 4:00 P.M. & I worked on Union Slough report. Finally got ~~not~~ finished and in mail, special delivery at 1:50 A.M.

46946 to 46996 = 50 miles

January 13, 1934.

All mails ^{25, 46, 57} at Tangney.

Worked on Mud Lake etc project, checked a couple of properties at Court House.

Finished the whole thing up at 5:45 P.M.
Hunted all over town for mailing tubes & stamps. Post Office closed.

Sent Round Lake. Outlet from Mud Lake into Trumbull Lake. Henrys Pasture. - Mud Lake (with Brown's Slough) project, together with finding of the Court in Henry's Slough case. & Elk Lake report, all Special delivery to Darling. Mailed all maps & tracing separately.

Talked Madagascar with reports from Spencer.
Newspaper in the evening.

No living done.

January 14, 1934 Sunday.

At Hotel Tangney. Spencer all day. Worked on expenses accounts, letter to Bode. List of birds collected in 1923. & letter to Mr. Darling's secretary, Miss Merle Houts.

January 15, 1934. Monday.

No. mail. Drove over the back road to Ruthven. Clear, bright sun, about 20°. three inches of snow on level, drifted to 1½ feet in places.

Spawn had gone to Chester, S.D. Saturday. His attempts on bird skinning resulted in two finished, two thrown away.

Birds noted in Clay County:

N. Downy Woodpecker, 2; English Sparrow, 25+.
Prairie Chicken, 1; Chickadee, 1; Nuthatch, 1;
Tree Sparrow, 200+; Ht. colored Junco, 2; Crows, 15;
Pheasant, 1;

Palo Alto County

Tree Sparrow, 400+;

Garnett County

Pheasant, 1; Crow, 8; Rough-legged Hawk, 1;
Tree Sparrow, 2; Redpoll, 40+
Twelve Mile Lake:

Hay's Ground Suck. 30+, 2 coll (♂ & ♀) 1 mile west of Twelve Mile Lake.

On north side of Twelve Mile Lake 2 found what seemed like ideal resting cover for Pheasants. On the south side of the country road (seldom used) opposite a slight bank

on the north. was a row of willows and willow growth. Also about 12 feet wide with weeds.

Over 300+ Pheasants flew or ran out south towards the lake. Also a flock of 32 Prairie Chickens got up from the same place & flew to the lake about one quarter of a mile away. A flock of 40+ Red-wings were in the willows. Also a Downy Woodpecker, Chickadee, and a Screech Owl in the red phase. Crows 20.

On over to W. Swan Lake. checked land between Swan & Mud Lakes. Mud is grown considerably to reeds. There is some open water. Banks are steep on a large part of the lake & much woods border it. High is open water. with sloughs of reeds. Banks are steep & a fringe of trees. West Swan has but little reed growth and not a great deal of useful building areas. There are some excellent wooded strips on the east. Birds seen in one of these were as follows: Chickadee 5; S.C. Junco, 8; W.B. Nuthatch, 3; Hairy Woodpecker, 1; D. Downy Woodpecker, 1; Brown Creeper, 2 (coll.); Crows, 25. These birds were mobbing a horned owl. It first flushed when I entered

the woods and they spotted it. Had a good look at it, and it was light gray, the Montana Horned Owl, undoubtedly. Had none of the darkness of virginianus. Tried to get close enough to collect it but unsuccessfully. Apparently it was less afraid of the crows than of a gun. A flock of 6 Redwings was seen. Also 6 Pheasants. Shot at the Chickadees, but missed. Also followed the Hawk for awhile.

Returned to Ruthven and Spawen came on over to Spencer with me to help skin out the birds. I did the 2 larks, a red-wing he shot last week, and 2 of the red-bells. Spawen fixed two red-bells, with wings out, for Prof. Guthrie, & one for himself.

46996 - 47104 = 108 miles.

7 gal. Phillips gas charged at Wallingford.
breakfast Langney .25; Cafe Wallingford lunch.
35; supper. Sammers cafe. Spencer. .404.

January 16, 1934. Spawen and I returned to Ruthven and I drove on up to south side of High Lake, past Crane Lake (now dry), and north to Mud Lake, all in Emmet County. Following the sloughs on east end of Mud on and mapped there on State Highway blueprint. For some reason these were not shown on their 1916 survey.

Book around Mud Lake and returned to Wallingford for 7 gal. gas and 1 qt of oil. Had a late lunch at Myers residence.

Birds seen in Clay County were: Pheasant, 6; Crows, 10; Rough-legged Hawk, 1; Tree Sparrow, 100+; Screech Owl. I collected - in gray phase - Lost Island Lake; Blue Jay, 1;

Palo Alto County Tree Sparrow, 200+;
Pheasant, 3; Crow, 2; Bronzed Grackle, 1.

Emmet County
Rough-legged Hawk, dead on road; Pheasant, 7;
Blue Jay, 1; Chickadee, 2; Tree Sparrow, 150+;
Crows, 6; Juncos, 3.

47104 - 47200 = 96 miles.

Bright sun; Temp. +7° at 7:00 a.m.

January 17, 1934. Wednesday.

Worked at the hotel all day. Letters, typing etc. Had a check from Mr. Darling in the mail today.

Got some repairs on the car. Bumper cross-bar, wind shield wiper, + carburetor adjusted. Paid for it.

Bennett arrived about 9:00 p.m. and as he had a fup along suggested that we drive over to Ruthven for the night.

47200 - 47219 = 19 miles.

January 18, 1934.

Bennett and I drove with Spurn to look at a fox recently killed. Had been reported as weighing 25 lbs. Actually was about 13 lbs. There was the report, however, of a timber wolf actually being taken. It was described as being 2 ft 2 in. in length, weighing about 40 lbs & hide dark gray in color. (The east of Lost Island Lake.)

Saw a Hairy Woodpecker in Palo Alto co. Drove up along east side of Grand Lake, on up to Graettinger, Wallingford, and on

to Mud and High Lakes in Emmet County. Stopped in to see "Smoky" Palmer who lives on East end of High. "Smoky" was one of the best trap shooters in Iowa at one time and still cracks about 90. He told of the days when he was a market hunter. He had his ammunition furnished. Generally they were paid 25¢ a bird for chickens. These sold for \$1.50, \$1.75 a pair in Chicago or New York.

He remembers when there were both the Saw-billed Curlew and both of the Godwits although he can't recall any records after 1900. He doesn't remember the Eskimo Curlew. Although the Golden Plover was here in numbers. He told of cranes, but couldn't say for sure of seeing Whooping.

In some ways now Mr. Palmer is like Jack Miner & Hornaday. Having shot all his life, he now believes the state should clamp down on all shooting. He advocates closing all lakes to shooting leaving only the corn-field shooting.

We checked lands on East end of High and Mud Lakes & about Swan.

Shot a couple of Horned Larks on road north of Swan Lake, 2 miles southeast of

Graver, Emmet county.

we bought 9 gal. gas & 2 gals oil at the General Store in Graver. Paid cash \$1.99.

Had lunch in Estherville after driving around Ryan Lake, now dry. It seems to be producing a crop that is satisfactory. Recommend that nothing be done with it.

drove back by way of Twelve Mile Lake. Small patches of ground of breeding areas might be acquired.

Picked up a Hungarian Partridge, two miles east of Estherville, that had flown into the telephone wire so far that the head was snapped right off.

Returned to Panther & Spencer. Bennett left about 4:00 P.M. He gave me a bit of Beaver working from Big Horn River.

Saw basketball game in evening & skinned out the two hawks.

472189 - 47333 = 114 miles.

January 19, 1934 Friday.

Worked at Hotel until late afternoon. Then drove to Ruthven for spawn. Had ^(supper) dinner at Hugo's and returned to Spencer to give talk before Spencer Game Bureau meeting. Rather a dull affair.

Skinned birds before & after. Was interviewed by a Miss Knight as what sort of "wild life survey" I was on. Told her nothing.

Had some home-made candy of Sparrows.

49333 - 49364 = 31 miles.

Expense check from Dicks Game \$51.59.

January 20, 1934 Saturday.

Drove spawn back to Ruthven. Near Round Lake we flushed a couple of horned larks from along the road. When backing up for these flushed a flock of snow Buntings and Lapland Longspurs. After chasing them around for about an hour had several shots at them, and succeeded in getting 12 Buntings and 3 Longspurs. An estimate of the two species present was snow Buntings 300+. Lapland Longspur 100+. This is my first Iowa record of the former.

Had Mr. Bragg print me up some specimen labels. He will make me up a thousand.

My Royal Portable came this afternoon. It is a beauty. Will pay for it \$16.75 down and \$10 on next three months.

Harlow B. Mills stopped at Tangney over night. I showed him some of the birds that I had made up. Planned to come over to Ruthens together tomorrow.

$$47364 - 47406 = 42 \text{ miles.}$$

January 21, 1924. Sunday.

Had melted terribly all night. Ice on roads & streets terribly slippery. Up at 7:00 a.m. and checked out of Tangney. 5 nights lodging at .75¢. Mills and I had breakfast together. I got 7 gal. gas & 2 qt oil. Standard Oil. Spencer charged. Mills & I drove across back way from Spencer until road became too muddy & slippery. Then hit down to gravel. Over via Springfield, Trumbull, & Mud Lakes.

Saw a Western Meadowlark near Lake Center school. Clay County. Also several Pheasants.

In afternoon Spaw and I skinned out the birds killed yesterday. I did the Hungarian Partridge picked up Thursday in Emmet County. Also 8 Snow Buntings + a Screech Owl. Spaw made up a Tree Sparrow, two Snow Buntings + a Lapland Longspur. I prepared two Buntings, 2 Longspurs + a Redpoll to send to Bullock.

Stomach of Owl empty. That of partridge contained gravel + corn. Stomach of Bunting nearly twice the size of Longspur. For some strange reason all of the Snow Buntings were ♀s. I believe there were others that were much whiter (♂s).

Breakfast at Tongue. Dinner and supper at Myers.

47406 - 47428 = 22 miles

January 22, 1934. Monday.

Breakfast at Myers; then drove from Ruthven to Algona. Saw Mr. Greders almost as soon as I arrived in town.

Spent the afternoon at the court house talking with M. H. M. Smith, County Engineer, and in checking over the plat book. Smith drew up a map of the slough for me to note in the property owners.

Learned that an announcement had been run in the local paper to the effect that the land in Union Slough was to be acquired and that \$20 to \$30 an acre would be paid. A bad case of meddling.

Finished up the report on the consolidated Ruthven project. Sent copies to Darling & Bennett. Stayed at Algona Hotel, where I also had lunch & dinner.

47428 - 47420 - 42 miles.

Saw a flock of 75 Lapland Longspurs, a few miles west of Algona, Rosamuth County. collected one individual.

January 23, 1934 Tuesday

At the court house all morning. Finished up the listing of properties - noting up the roads.

Breakfast at the hotel, lunch & dinner at States Cafe. After lunch drove to Union Slough. So muddy that I had to put on the chains.

Section 16 is alright along the middle quarters north and south. Buffalo Creek runs with banks about 5 feet deep at the point where the ditch from the slough empties into it. Smith recommends a sheet piling dam ^{at least} 5 feet below mouth of ditch. Some of creek bottoms should be acquired to avoid payment of damages in case of flooding. Smith assures me the damming will not bring the creek out of its present banks.

Sections from north of 16 north to and including 34 show swamp or slough growth. From sections 34 + 35 north the land is in hay, pasture, or under cultivation.

Cross roads can serve as points of control. Especially the first one above the dam.

A single starling was seen at the point where the Union Slough drainage

ditch empties into Buffalo Creek. It was flying, and too far away for a shot. Pointed bill & wings, steady & rapid flight was noted. I believe this to be the first record for Rossuth County.

A Rough-legged Hawk was noted. And four ♂ Horned Larks were collected from a flock of 30, 2 miles south-east of Bancroft, Rossuth Co.
49470 - 49523 - 53 miles.

January 24, 1934, Wednesday
to Union Slough about nine o'clock. Left on the gravel because of the chains.
Saw the following birds: Pheasant; English sp.; Crow, Downy Woodpecker, 1; Hairy Woodpecker, 2, 1 ♂ (eastern race) collected - mouth of Plum Creek; Chickadee, 4; ^{mitochondria} Titmouse, 3; Creeper, 1; Tree Sparrow, 40+; Junco, 3; Lepland Song Sparrow, 3 or 4 hundred. Horned Lark 6 or 8 (1 ♂ coll. 2 miles east of Burt). Marsh Hawk, 1 ♂.

checked all parts of the slough. Roads very muddy, freezing later in the afternoon.

Went over to Mr. Sanders in the evening talked until after nine and then drove

out to a Mr. Lloyd Wellens. He has a private collection of 37 birds, mostly waterfowl. Included, however, is a juv. Bald Eagle, a Horned Grebe, nearly intermediate between virginianus & cedrorum taken one winter; a Horned Grebe in winter plumage; a surf scoter ♀, taken six years ago. a Prairie Sharp-tailed Grouse, taken from a flock of 400, ten years ago. Mr. Wellens told of seeing flocks of sharp-tails near La Verne 3 or 4 years ago. A ♂ Loon with purple head has a bill 1.00 in. width, & a width of 8.70 in. A loon in spring plum. has a bill 2.90 in. A ♂ Black Duck is large, but has unstreaked throat & mottled breast. He has a Mallard x Pintail hybrid.

Suggested that I see Sedke at Latch Creek, north west of Algona - bird collection.

49523 - 49590. = 67 miles.

Temp. dropped below zero so put car in garage.

January 25, 1934. Thursday

Worked at Kosuth County Court House on
Plat Book & tax records. Also worked on
map. Sent letter off to Mr. Darling
No driving done.

January 26, 1934 Friday.

Finished up report on Union Slough.
Recommended the purchase of 3,486 acres
of land to cost \$103,005.

Mailed report to Mr. Darling & maps of
Union Slough & Ruthven project. postage .53
No driving.

January 27, 1934 Saturday

Breakfast at Algona Hotel. Left about 8:00
and drove to Eagle Lake, Hancock County.
Land on west could be acquired (including
the State Park, which is already a failure).
Also along north side of lake, east one
mile & south to the lake. Water level
faulty. Vegetation good for growing ducks.

Crystal Lake is out of the question for duck-
breeding. Steep sides & no cover.

drove on over to Forest City & got
some maps at the Court House. There
are some good-looking low spots south-
west of Forest City, but all are drained
to heavily & not near enough to any
body of water.

Lunch at Garner. & map of Hancock
county at Court House.

South to Goodell & west to Twin Lakes.
5 gal. gas + 1 qt oil at Goodell. paid cash.

Good March area south-west & west of
East Twin. Also learned that dam was
being built along east side to hold water
out of a marshy area to east. Road so
muddy couldn't get over to see this.
without chains.

West Twin very poor. Similar to Round, but
road on three sides & farm on south.
Some reeds.

Returned to Puthren. One of longest
driving days up here, but covered a lot
of country.

47590 - 47668 = 178 miles.

January 28, 1934 Sunday
No driving

January 29, 1934. Monday
Picked up mail in Spencer: letters from
Pierce, Rozend, Bullock, Irish & same in expense
account. Miss Seydell, & home.

Saw Bugg for a little while.

Picked up a Rough-legged Hawk & a Harlan's
Hawk along the road. The latter had been
dead a long time.

$$47668 - 47713 = 45.$$

January 30, 1934, Tuesday
Letters written, & some mopping of Hawsos
checked.

Saw many Redpolls, about 8 dozen all
in Palo Alto County, near Schlosser's house on
Lost Island.

Worked on a Horned Lark & tail of Harlan's
hawk in the evening.

$$47713 - 47718 = 5$$

January 31, 1934 Wednesday.

to Spencer and registered at Hotel Tanager
weekly rate of \$6.

48252 - 48303 = 21 miles.

Had the car greased, oil changed, battery checked, - tires tested at Standard Oil Station at Spencer, at 48293 miles. 8 gals. of gas at Ruthven.

Letter from Mr. Darling.

Talked before Farm Bureau meeting in afternoon.

February 3rd, 1934. Saturday.

Worked on paper for Successful Farming.
Stayed at Tanager, meals there & at Wagners.
Gave two talks at High School and one at Lardner. Farm Bureau meeting.

Weather perfect. No snow; about freezing,
& clear.

No driving done during past two days.

Rip to the court to see Cliff McConan,
Dist. County Engineer, in the afternoon.

February 4, 1934 Sunday

Cliff Mcowan met me at hotel and we drove to Elsie, the Outlet from Lost Island, Brown Slough, Mud Lake, Outlet from Mud (or Smiths Slough), Turnbull, & Round Lakes, Green's Slough, checking up the dams, little flood-control gates etc. necessary on the Butcher project.

$$48303 - 48371 = 68 \text{ miles.}$$

February 5, 1934 Monday

Spencer. Checked over findings on construction costs. Couldnt find Mcowan in to look up bench-marks or water-levels.

Spencer stopped on way back from South Lakota. Finished expense account. Moulton notarized it.

Wd. on Chapter on Non-game birds in Am. Mus. & Neethers was returned & typed. Mailed it at 10:30 P.M. 17 pp. in all plus bibliography.
no driving

February 6, 1934 Tuesday

Talked to McCowan in the morning, and he looked up bench marks for lakes around Ruthven. Also gave me a blueprint of Barringer's Slough, showing elevation.

Drove to Ruthven and Jerry Bawn and I drove to Des Moines, leaving at 2:00 P.M. Stopped to see how Mr. Goodrich was getting along. He was reported as being improved, but no visitors allowed.

Collected a horned lark, west of Algona, in Rossmore County.

Stopped in Ames to see if Bennett had arrived. He had not. Went on down to Des Moines, where we stayed overnight.

Gas & oil paid for by Bawn & myself
48371 - 48389 = 18 miles

February 7, 1934, Wednesday

Des Moines. At Fish & Game office, then to Ames for a short course on Game Producing. Heard talks by Schenker, Bennett & Hamerstrom. Laughed with Compton, Bawn and the Hamerstroms. Talked to A. Drake about bird problems.

Returned to Ruthven in the evening.

February 8, 1934. Thursday.

Ruthven to Specimen + return. To see Mc Cowan, mail, etc.

Drove north around Mud Lake, Dewey's Pasture etc. collected three tree hoppers, & certainly are the western race

$48781 - 48821 = 40 \text{ miles}$

February 9, 1934. Friday.

Ruthven. Worked on specimens + mail.
no driving

February 10, 1934 Saturday

To Akron to see Bennett. see other journal for bird notes. Returned Sunday afternoon. Paid for all gas + oil.

February 12, Monday

Went to vicinity of Elk Lake, Clay County to check on land north and west. This area is a marshy tract watered by the outlet ditch from the old Elbow Lake. Much of it ~~is a~~ ^{is} suitable for a nesting area if dam (3 foot) was placed at road grade near north end. Ground hummocky & marshy; that to the east end & southeast is in good hay-land.

Checked on water lands in Mud, Turnbull, & Lost Island lakes. Also a recheck of distances on fill necessary at southwest end of the Outlet to Lost Island.

Saw several flocks of Lapland Longspurs, (300+), and collected 3 of them; Clay Co. 4 miles S.W. of Putnam. Also saw Horned Larks, a Marsh Hawk, & many Tree Sparrows.

Saw a blackbird sitting on top of a straw stack along highway, $2\frac{1}{2}$ miles west of Putnam, Clay County. Stopped the car to watch it and decided it was either a Brewer's or a Rusty. Noted that the eye was chocolate brown, but didn't look at

✓ up until later. Found it must be a ♀
 Brewer so spawn and I went back and
 it was feeding in the cow-lot. spawn killed
 it with 13's for the H/O. Upon skinning
 proved to be a ♀; fairly fat; a few albinistic
 feathers in plumage. I should call the
 chocolate iris a good field character of the ♀.
 I believe the only other preserved Iowa
 specimen is one in the U.S. National Museum.
 spawn shot at what he believed to have
 been a shrike. couldn't find it.

Marsh Hawks appear to have returned
 in slight numbers within the past 5 days.
 Juncos also appear to be more numerous.
 spawn says starting four days ago they
 became common, but still only $\frac{1}{2}$ or $\frac{1}{3}$
 as numerous as the tree sparrows. The latter
 have been here all winter seemingly in
 about constant numbers. Certainly this
 is the most numerous bird here this
 winter.

chickadees are here in fair numbers.
 about 4 of them to each Nuthatch. And
 twice as many downy woodpeckers as
 Nuthatches, the ~~former~~ latter twice as numerous

as the Hairy. Or in other words. Hairy wood-
peckers & Nuthatches in about equal numbers.
Creepers are rare. Red-wings appeared to
have been absent through the last of
~~the~~ January & this part of February. There
were a few grackles. The Rusty, Brewer's
Blackbird, cowbird, & Goldfinch must be
considered as stragglers. Chickens have
thinned out. Saw one flock of 23 recently.
49093 - 49149 = 56 miles.

February 13, 1934. Tuesday.

Airplane from Ruthven to Spencer. Registered
at Tangney, in same room at \$1 rate per
day.

Got the report on estimated costs of
restoration projects in Ruthven area, ready to
send to Mr. Darling. Sent it off special to
Washington.

Had lunch with Macowan. Checked
estimates on fills for outlet from Mud Lake.
49149 - 49175 = 26 miles.

February 14, 1934. Wednesday

Spencer. At court house checking land north and west of Elk Lake. Southwest of outlet to Lost Island Lake, connected by the drainage ditch from the former Elk Lake.

Expenses check from Dick & game arrived. Skinned out Sorex owl caught along the road. Monday. Also finished the Eagle paper for Pierce.

Tungsten hotel, lodging; breakfast; Hammer's cafe for lunch & supper. No driving done. Haircut.

February 15, 1934. Thursday

After getting mail, drove north to Spirit Lake & followed north along the lake, east side. Then east along state boundary, finally coming into Estherville from the north and west. Some land around Central Lake, near Spirit Lake, the Jefferson sloughs, & marshes on the north-east side of Spirit Lake might be desirable for breeding areas.

Saw a mated pair of Hargraves north of Spencer. Noted several mated pairs

of horned larks. Stopped at Union State Line Cemetery to look through the evergreens. No owls found but a few pellets noted. Saw a Northwestern Shrike 2 miles northwest of Estherville, Emmet County. Seemed very large. Thus certainly eliminating a migrant. Tried to follow it for a shot but it had moved out rather quickly. Saw a few Songspurs.

worked at the Emmet County Court House. Lodging at Hotel Gardston where I had lunch. Supper at Ralph's Cafe.

49175 - 49225 = 50 miles

February 16, 1934 Friday

at Estherville, working in Court House, on properties surrounding Mud Hill, & Swan Lake. Lodging at Gardston. Breakfast here, lunch at Nathansons. & supper at Ralph's.

no driving done today.

February 17, 1934, Saturday.

Estherville. Finished up the tracings and listing of properties around Mud High. & Swan Lakes, Emmet County. Miss Dorothy Bloff, County Auditor, has offered good help in checking up property lines.

Was able to summarize 17 things wrong about Holt Gardston.

Ahove back to Spencer, via Terrill & Langdon. Gravel all the way. Saw a number of Horned Larks & picked up one near Lake Center School. Clay County evidently hit by an auto.

$49225 - 49263 = 38 \text{ miles}$.

February 18, 1934, Sunday.

40 above zero at 8:00 A.M.; ground bare; strong northwest wind. Starter just buzzed; wouldn't turn over at all. Plenty of juice in battery, & motor turned over alright by hand. Had flow-car from Lowe Motor Co. to push me (.50¢).

To slough near Webb. Drainage ditch put through about 1913. Has made this area a good agriculture area; entirely

unfit for restoration as a wild-life area. South
 & east of Webb to the site of the former Mud
 Lake. The banks are well defined. Part of it
 is now under cultivation. drainage ditch across
 the north end, from west to east & north.
 This could be dammed to re flood. It is
 questionable whether slough vegetation would
 return for some time. Might be better used
 for a game area. No adjacent nesting area.

South to Pickeral Lake, which lies mostly in
 Buena Vista County. Similar in setting to
 Silver Lake to the northwest in Palo Alto co.
 Banks well defined, wooded, and more of a
 picnic area than a wild-fowl lake. There is
 no vegetation on the lake. Marshy areas on
 the northwest, & prairie pastures on the south-
 west might be well to secure.

Returned to Denver via gravel roads through
 Sillett Grove, Dickens, etc. All marshy areas
 so indicated on soil map, are now dry and
 under cultivation.

Saw Rough-legged Hawk, Pheasants, Chickadee,
 Horned Larks. Several large flocks of Songspurs,
 some of which seems very small.

~~49225~~ - 49263 = 49335 = 7 1/2 miles.

February 19, 1934. Monday.

Spencer. Bill Schenker, his brother, who is warden at Storm Lake. Stevens of Sioux, a Lynn country, Ross Moses, and a couple of others, met at the hotel today. I had a chance to talk with them after their meeting. Bill said the Irish & same had had a letter from Beck stating that the Iowa reports on the Redwood projects were the most complete and intelligent of any received. He felt certain that Iowa would have some part in the program.

Drove to Ruthven for mail, etc. Talked before the Junior Chamber of Commerce, Spencer, in the evening.

49335 - 49368 = 33 miles.

February 20, 1934. Tuesday.

Spencer. Worked on reports of area north & west of Elk Lake, and south & west of Lost Island Lake. No driving done.

February 21, 1934 Wednesday

Worked on reports of extra lands in Clay County, Iowa. In this was included, the dry lake southwest of Round Lake, the slough southwest of Webb, the drink-up Mud Lake east of Webb, & Pickers Lake. Also worked on report of lands near Elk Lake.

No driving done.

February 22, 1934 Thursday

Packed some things to leave at Ruthven, drove over to check on land south of Outlet from Lost Island Lake, Whitford Slough.

A fill of 45 feet is needed, two feet high, using stone and dirt there already, & a two foot plank dam built into it. 165 feet west from east fence, and 180 feet south of north fence.

Saw a Prairie Falcon, flying from the north, with the wind, south across the Whitford Slough. It was sandy-colored, the right size & shape, and was certainly moving along. Tried to see where it

was headed, but lost sight of it behind a hill. I am certain now that the bird seen in Kosuth County was also a prairie falcon (January 11th). My first Iowa records. Bennett reported seeing one in Plymouth County the next week. G. B. Hauer saw one he thought to have been this species, near the "growing pond", south end of Lost Island Lake, Clay County, on January 24th. Paul L. Ervington reported seeing one in Kosuth County, January 26th. At Myers for lunch & supper returning to Spencer.

49368 - 49418 = 50 miles.

February 23, 1934.

From Spencer to Ruthven for Jerry & on to Emmetsburg for work in the courthouse. -6° below. No snow. Checked up ownership to lands about Rush, Silver, & Virgin Lakes. Lunch at Trainers Cafe.

Above with Ross Mozes in the afternoon. Visited some country along the Des Moines River (West Fork) that was heavily infested with fox. Found feathers from two or three supposedly ^{mountain} victims, also one Hungarian.

New channel was put through in 1915 and now the high water is taken off so rapidly that no flooding of the broad valley results. It is the opinion of Moses that in early times the entire broad valley of the river bottoms was a marshy area, subject to regular flooding due to the winding course of the river. When the new channel was put through the river was shortened 17 miles in its distance across Palo Alto county alone.

A check-up was made of some of the areas indicated on the soil map of 1918 as "feet or much". These almost without exception have all been drained or tilled out.

We visited a muddy field of corn planted in 1932. unpicked that year, and allowed to lie idle throughout the next year, 1933. It is one of the most perfect game-bird covers that one could ask for. Some corn remains on the standing stalks, other ears are on the ground + in perfect condition, and other signs indicate its recent use as food. Weeds of many varieties have grown up and even with snow two or three feet deep, weed seed would be available for Pheasants and

chickens. This is the sort of thing Bennett and I have talked about: the sort of conditions that would be achieved with reversion of agricultural land. Provided there is a little grain to supplement the weeds until they get started it will certainly hold the birds. A couple of shocks of corn, willow scrub, or weeds along a fence will help provide the cover.

Above last what Moses described as a former "Buffalo wallow". It is a small depression with no apparent water supply.

We saw an area heavily strewn with stones & boulders. These keep working to the surface as the frost works on them.

Visited the north end of Medium Lake at Emmetburg. in fact we drove around it. Moses recommended that all land on the east side of the lake, west of the road, and from the middle of the lake northward be acquired. It looks like good grazing area. water-level would be maintained at present height. Some plan might need to be worked out for increasing the marsh vegetation for increasing the growing area.

haven't checked the west side carefully yet, nor the tittles to the land.

Returned to Myers at Ruthven for supper.
Went to bed at 9:30 P.M.

49415 - 49486 = 68 miles.

February 24, 1934 Saturday
-6°. (Snowing a little.) Spence went in for mail. I typed on material to go in report on additional areas at Ruthven.
To Silver Lake in Palo Alto County, checking on marsh area to west end.
Then to Spencer for mail & some information at Court House.

Saw flock of Box Prairie chickens near Round Lake; a number of Horned larks; a Sapland Longspur; a P.L. Hawk.

49486 - 49534 = 48 miles.

February 25, 1934 Sunday
Spencer. Cold. Staged in the hotel about all day. No driving done.

Monday 49440 - 49466
 49466 - 49486
 Tuesday 49486 - 49503

February 26, 1934. Monday

At Spencer. To Court House to check up on lots southwest of Round Lake.

Had to have car towed for starting. So stopped in at Louie's Garage to have battery examined. Front cell was dead, but other two charged to 1300, whereas a new one tests to only 1250. Decided it would be most satisfactory to buy a new battery Exide #13, which cost \$7.75. 50 cents was allowed on trade in on old battery. A new ground cable & belt was needed. Charged to Irish & Sam. Carrys a years guarantee. Battery taken out was a "Good" & appeared to have been in use for a number of months.

Wrote to Mrs. B. Burke explaining purchase and sent in estimate on two new Atlas tires through Ruthven station.

Phone to Virgin Lake. Palo Alto County. Practically no marsh area. Banks are steep and bare.

Protection given to water-fowl on this lake could well be transferred to

Elk Lake, where it really would amount to something. Bennett says there is no feed in it. Certainly there is no cover for growing ducks, and breeding areas are lacking.

to Myers for supper & to stay overnight. Brogg had struck off a sample label but decided it was too large.

Bennett had been up over the week-end with "Peto". They plan to be married within ten days and to live in a cottage by the lake.

$$49534 - 49562 = 28$$

February 27, 1934. Tuesday.

Pocahontas County, Marshall County,
Clear Lake. ~~Red covered lake~~, except for about
 20 acres near the middle. Many muskrat
 houses. Banks on southeast, east, northeast
 & north, very well defined & most of it grown
 with a fringe of willows.

Mosses grow in tile at southward end & also
 some of the water. A breeding area is badly
 needed. Also, probably, water controlled. pond
 growing on rearing area. Cattails on northeast
 end. A narrow strip of grass along that end.
 Then plowed fields beyond. Best nesting area
 on south, south-west & west. High ground to
 west.

Low ground in Section 6, Plover Township is
 found in SW $\frac{1}{4}$, SE $\frac{1}{4}$, & SE $\frac{1}{4}$, SW $\frac{1}{4}$. Also
 in Section 7, NE $\frac{1}{4}$, NW $\frac{1}{4}$; NW $\frac{1}{4}$, NE $\frac{1}{4}$.

Lizard Lake, Lake Township. A clear water lake
 (mostly) with quill reeds on west, & a narrow fringe
 nearly on all sides. A small marsh on west,
 connected to low bog land across road west by
 shallow ditch. Dam on north. recently lowered

13'. Formerly 5 feet of water. Marsh on east, extending east to pasture & cornland.

A good amount of marginal land could be picked up around this lake. Also sub-marginal land along outlet to north & Lizard Creek on north, which winds from northwest to southeast.

Cultivated a pasture on south. Banks from 4 to 8 feet. One small woodland on northeast. Damel hall on east - south of slough.

Drove from Ruthven to Emmetsburg. Met Ross Moses and then we drove south through Palo Alto County to Pocahontas. Visited Clear Lake; Burns Slough (Cedar Township, Section 9, SW $\frac{1}{4}$); Lunk Grove, (Cedar Township, Sections 5, 6, 7, 8) or Lunk Island Lake; and Lizard Lake, (Lake Township, Sections 22 & 27).

Ate at Checkerboard Cafe at Douda, & at Hotel Kenmore, Emmetsburg, where I staid all night. Worked on reports.

Only -6° below zero this morning. Warmd up greatly by afternoon.

Made Pocahontas trip in Moses car but I drove from Ruthven to Emmetsburg and around Melvin lake some.

Law many horned larks, including several
flocks (hedge?). Also many pairs along the
road. A few Rough-legged hawks.

$$49562 - 49594 = 32$$

A note on Link Island Lake given me by
Moses is as follows:

1 $\frac{1}{4}$ mile south of Varina; 285 acres;
Island contains 33 acres. In drainage district.
In danger of being drained. Duck shooting club
on it. 80 acres on west owned by Lake
View State Bank; 120 acres owned by county;
Herman Sauter owns the island.

February 28, 1934. Wednesday.

Immature. Breakfast & lunch at hotel.
Typed all morning. Worked at Court House
in afternoon & then drove up around Medium
Lake. No change in water level is
needed. In fact what little benefit(?) would
result would be offset by difficulties in
town end of lake. More growing cover for
ducks is needed. Good land adjoining
the lake & enough to make a fairly
large project.
Saw a covey of 18 Quail near north

end of Medium Lake on Game Management Area.
My first record for the northwest.

Picked up mail at Ruthven + Spencer. Ate
at Hammers.

Jerry had collected a chickadee, two tree
sparrows, & a ♀ Red-wing.

49594 - 49657 = 63 miles.

Tongue was full up; had to take a \$1.50 room.

March 1, 1934, Thursday

Breakfast at Hammer's Cafe. Stopped at Ruthven
to leave some of my extra clothes & maps.

Drove to Silver Lake. Palo Alto County. Marsh
at east end very good. water level could be
controlled. Marsh at west end poor.

Rush Lake has possibilities if Commission
& Board of Conservation could agree as to use.

One suggestion is to drain lake, thus
killing all carp; then reflooding to grow
vegetation, fish, & a place for water birds.

But if it is to be a picnic & boating
lake the plans for raising the dam will
not much matter.

Ate at Laurens (west side Cafe) & then

Looked over old Swan Lake north of town. It is problematical whether it could be reflooded to any advantage. Ditch in section 16 is very deep & would require at least a 7 foot dam to raise water for flooding. This would back up water so far damages would be sure to result. If some plan could be devised to take care of Cedar Creek above the old lake bed then it might be practical to flood the west part (section 16). According to the County Engineer it was drained in 1910 or 1911. Before that a reed-covered lake with water through-out the year.

Best & Much area (soil map) south-east of Laurens (Marshall Township, Sec. 10 & 20), entirely under cultivation; with deep (4 foot) ditch through it. Of no possible use.

Visited the office of the county engineer & county auditor.

Stayed at Hotel Pocahontas.

49657 - 49738 = 81 miles.

A flock of 33 Pintails were on the "Growing Pond", south end of Lost-Island Lake.

March 2, 1934 Friday.

Had oil changed in crankcase. 49647 + 5 gal. gas. Breakfast at Lindeman's Cafe, Pocahontas. Drove to Clear + Lunkhorne Lakes. To Lizard Lake in afternoon. To Ruthven in afternoon. Lunch at Laurens.

49738 - 49799 = 61 miles

March 3, 1934 Saturday

Ruthven. worked on reports + laked a bit with pawn. No driving

March 4, 1934 Sunday

To des Moines.

March 6, 1934 Tuesday

To Pocahontas. Lunch + supper at Lindeman's Cafe, Pocahontas. Drove to Lizard Lake after checking of titles at the court house.

Hotel full so had to go to Mrs Harting Boarding house. Saw bunch of 40 chickens at Lizard Lake. Picked up dead Pheasant ♂ along road, south of Humboldt.

50462 - 50496 = 34 miles

March 8, 1934 Thursday. Breakfast at Lindeman's
Café, Pocahontas. at Court House until 9:30 A.M.
checking land & drainage in connection with
the old Swan Lake near Laurens.

Drove to Clear Lake, west of Pocahontas. Saw
many Tree Sparrows, a Gray Woodpecker, 18 Mallets,
6 Pintails, many crows, several Pheasants,
4 Redwings, 1 ♀ collected, a few Lepland Longspurs,
a few Horned Larks (1 ♂ coll. *Wright?*).

On to Marina for lunch & then to Lunk Lake,
or Lunker Island Lake, south of Laurens. This
certainly is one of the best possible lake
restoration projects in the state. Saw several
(four) Rough-legged Hawks. Many Longspurs.
To Ruthven via Ayrshire.

Saw a flock of between 125 + 150 ducks flying
north to Lost Island Lake & then swing west
towards Turnbull.

50498 - 50577 = 79 miles.

March 9, 1934 Friday

worked on reports in the morning. In afternoon drove to residence of Clifford Bloom, 15 miles north of Lake Center school, on Clay-Dickinson County line (lives on Dickinson side). He has a collection of 40+ birds. some better mounting-jobs than others. No data. Learned at Northwestern School of Taxidermy. Has a Livianus Hawk, adult taken in Clay County. a Lanager taken in Dickinson county, summer of 1933; off 6 Red-tailed Hawks, 3 are Brideri & 3 are bovalis.

Rod tire repaired (nail), & generator fixed. Ervington arrived. Typed in the evening while he & Spawen went to Emmetsburg.

50577 - 50605 = 28 miles.

March 10, 1934. Saturday

In the house about all day typing. Learned that the Iowa House had passed the bill increasing the license fees. And that Chuck Stump had passed the Congressional House, only waiting the President's signature now.

Mr. & Mrs. Van. Tommy, Ross Moses, & Kelly all called! Ervington left at 1:00 P.M. Spawen shortly after.

Darling is speaking in Spencer Monday evening.

Drove to Spencer for typewriting paper and to get tickets for the dinner.

50605 - 50652 = 47 miles

March 11, 1934 Sunday.

Into town for mail for the paper. Learned that J. N. Darling had been appointed as chief of the U. S. Biological Survey, succeeding Redington.

Worked on the Pocahontas reports. Quiet in the afternoon so got a lot of work done.
No driving.

March 12, 1934 Monday

A flock of nearly a thousand Pintails on Lost Island Lake, near the middle. Also a bunch on the "graving pond".

After lunch Mr. Van Vleet & I drove to Spencer to attend the Irish dinner of the Will Vely League in the evening. Darling could not be present as he left for Washington by plane today.
Had room with bath at hotel. haven't shaven.

shoes shined.

Bennett was married today.

Bode, Raff, Gunders, Woodcock, Leland of Ames (B. & C);
Fitzsimmons, Landscaper for Board of Conservation, a Mr.
Shaw, Federal Warden for Southern Minnesota & northern Iowa.
Jack Stevens, warden from O'Brien Co; Ross Moses, Ray
Butter, warden from Dickinson Co; all attended the
dinner. Met a number of other men, O'Brien of
agriculture is interested in Silver Lake.

Bode says there are two programs at present.
Getting the reports finished up on land to be used
for game areas by taking marginal land out of
agriculture; and second the leasing of pasture
area for nesting sites.

Stayed at Hotel Tennyson, ⁴ 2⁵⁰.

50652 - 50673 = 21 miles.

March 13, 1934 Tuesday

Up at 6:00 after five hours sleep. Bode and I
drove to inspect several units in the Ruthven
project. Bode expressed his approval of the
area as game-producing cover. Returned to
Spencer about 8:00.

Drove to Arnold's Park at noon, and
met Ray Butter, Deputy warden. We then
drove past Jewell (or Jefferson) Slough.

Welch Lake, Diamond Lake, to Crow Lake (privately owned), Hottes Lake game refuge - into Spirit Lake. Met Mr. Fred Barlow, Pres. of Nat. Bank. also Don Stearns, in the same bank. Talked to Levi Grove, a farmer living at south end of Hottes Lake.

Drove to Swan Lake - west side a game refuge, east part deeper water. Saw Christopher's Slough. Looks awfully good. Plenty of cover, + water. Good areas for nesting. Returned to Arnold's Park + Spencer. Drove to Puthers later in the evening.

50673 - 50821 = 148 miles.

March 14, 1934 Wednesday.

Drove with Ross Moses in the late forenoon & afternoon. Went by Lemmy's Pasture, Green's Slough, & to Spencer. Had Morgan Cornwall, Attorney in Spencer. draw up a proposed lease for renting of pasture land for nesting areas. Sent this off to Bode in the evening.

Came back via Elk Lake

Mary ducks on Elk Lake.

Lunch at Sammers

no driving.

March 15, 1934 Thursday
No driving done.

worked on typing of reports to send to Mr. Darling.
Finished up a recapitulation of areas so far, or
to be recommended. Also a letter to Darling.
Saw Herring Gulls on Lost Island Lake.

The following figures are from Clay County Auditor's
record on boundaries.

1932.	crows	@ -10¢	\$214.55	2,145. crows.
	gophers	@ -10¢	\$339.20	3,392. gophers
	wolves	@ ^{\$4.} \$10	\$66.00	
1933	crows	@ -10¢	\$231.35	2,315. crows
	gophers	@ -05¢	\$113.50	2,270. gophers
	wolves	@ ^{\$2.} \$5	\$91.00	

By months the income on crows & gophers was as
follows:

1932	To May	\$36.50
"	July	\$288.90
"	August	\$69.30
"	Dec.	\$159.05
		<u>\$553.75</u>

1933	To May	\$85.00
"	July	\$187.05
"	Sept.	\$34.10
"	Dec.	\$38.70
		<u>\$344.85</u>

March 16, 1934. Friday

At Ruthven. Working on maps. Mailed off the reports on Poachontas, Palo Alto, & part of Clay Co. Windy, very. Bennett & I counted over 50 Herring Gulls on Lost Island Lake. Saw the Smoother Owl in the stump. Saw Pine Killdeer on the growing pond. Shot 6 Rusty Blackbirds (5♂ 1♀) out of a flock of Blackbirds fat the growing pond. - on two shots. heard Red-wings. Saw Meadowlarks in Clay County. Many Pintails on Round Lake.

Spencer shot two Bluebirds from two flocks of 10 to 15, in Palo Alto County.

50821 - 50847 = 26 miles.

March 17, 1934. Saturday

Worked on maps. In afternoon drove to Spencer, south to Storm Lake & south & west to Sioux City. Very windy & cold. Saw Meadowlarks in Palo Alto County. A Harrowhawk in Buena Vista County, a few Horned Larks.

At Storm Lake there were many birds on the ice in the game refuge along northwest side of the road. There must have been at least

a couple of thousand Pintails there and many Mallards. On the lake along the northwest side was one flock of 70 Redheads and another of at least 250. 16 Canvas-backs were seen.

About 30 Scaup Ducks, 1 or 2 Ringnecks, 8 Goldeneyes, 2 Gadwall, 5 Shovellers, 3 Green-winged Teal, Many Herring Gulls. One cove on the southwest corner had at least 5,000 Pintails closely massed.

Reached Sioux City at 7:00 P.M. Stayed with Bill Youngworth.

50847 - 50985 = 138 miles

March 18, 1934 Sunday

Up at 9:00. Finished the map of Silver Lake. Went over to see Mr. Stephens about noon. Had dinner at Walter Youngworth's. Then Bill and I drove south from Sioux City to see Brower's Lake, a 300+ acre dry lake, which is the best breeding possibility, if water comes back with spring rains. A plank dam, 2 feet, could be placed across in front of 2 foot concrete culvert under highway. Land around needed for nesting cover. North end for game cover.

then to "New Lake", one mile northwest of Brown's Lake. This area would make a fairly good public shooting ground. Privately owned. Land inside of agns ② would make fair game bird cover.

Brown's Lake, recently acquired by the state, 600 acres. Will serve as resting area. Refuge. Not much good for feeding or nesting. Good marsh cover in west end of south part.

Sand Hill Lake is dry, ditched & under cultivation. No point in restoration, except that it was once awfully good for hunting. Now under cultivation.

What about control of areas along the river or a part of the river bed? Sandbars, or lands isolated by changing channels?

Shank Lake in Monona County is dry. No chance of restoration.

Bodger Lake should be acquired. It has but little water in it now, but looks good. Some good cover along the banks. A feeding area to some extent, nesting some & good resting area; good for shore-birds.

Blue Lake is supposed to be state owned. It needs to be returned. Might be reflooded

by ditching or pumping water from the Missouri into south end of west farm. $\frac{1}{2}$ mile from former channel. South end of east arm has good reed cover & adjoining hay lands. North or middle portion is dry.

Guard Lake is nearly dry, but has some water, a lily (lotus) bed, & good cover for game birds. Some of lake bed is under cultivation.

The first geese were seen west of Whiting. a flock of 12 Canadas with 4 Blues with them. Then shortly after, near Badger Lake, a flock of about 1,500 flew high over, headed E. N. E. There were not over 150 Snows and the rest Blues or a ratio of 1 to 10. Other smaller flocks were seen near Omaha, and from there as far north as Sargent's Bluff. Probably not more than 3,000 geese were seen of which 10th were Snows; the remainder being Blues. All flew in well defined formation of lines, or combination of lines. Wing flapping much slower than in the ducks.

Saw several Sparrow Hawks, a Bluebird, two N. Flickers, several Meadowlarks, several hundred Tree Sparrows, and a good many ducks which

were mostly Mallards & Pintails.

Spent the evening at Mr. Stephens; returning to Youngworths about midnight.

50985 - 50994 = 9 miles

March 19, 1934. Monday.

Left Sioux City at about nine in the morning. Warm; bright sun. Birds seen in Woodbury County: Owls, English sp.; Robin, 1; W. Meadowlark, 2; Hairy Woodpecker, 1; Marsh Hawk, 1.

In Ida County, the following were seen: Marsh Hawk, 1; Meadowlark; Prairie Horned Lark;

In Cherokee County: Prairie Horned Lark; Marsh Hawk; Sparrow Hawk. After having crossed the Ida-Cherokee County line on Highway No. 21, a Starling was seen sitting on the eaves of a barn. It was $\frac{1}{2}$ mile north of the line in Cherokee County, and on the farm of Ingwer Christiansen. Tried to get a shot at it, but it flew away before I could get the gun set up. Looked at it through binoculars at 60 feet. Yellow bill & other characteristic marks noted. This,

I believe. is the first observation for Cherokee County.
 In Buena Vista County; E Red-tailed Hawk.

On Storm Lake, there were at least 80,000
 ducks & an additional 3,000+ on the game
 preserve. $\frac{4}{5}$ ths of the ducks were Pintails.
 & the other $\frac{1}{5}$ were Mallards. 20 Redheads
 were seen. 6 Baldpate. and on the preserve
 were 12 Snow Geese, & 8 Blues.

A 2nd year Harlan's Hawk was carefully identified
 one mile south of Rembrandt, Buena Vista Co.
 It had dark body, dark under-lining to wing,
 and a grayish-dark tail. It did not have
 feathering on the tail; & in every way checked
 for a Harlan's; the first migrant of the season.

In Clay County: Saw 4 Starlings
 flying near the Little Sioux River, 3 miles
 east of Spencer, near Highway No. 18.

Reached Ruthven about 3:00 P.M. and then
 Ross Moses and Bennett & I drove to Round,
 Elk, Silver, & Rush Lakes. Saw many Pintails &
 Mallards on all of these places & also Silver.
 Saw Meadowlarks, Sparrow Hawk, many Pintail &
 a few Red-winged Blackbirds.

North of Rush Lake saw a flock of about 100
 Blue Geese with 10 or 12 Snows feeding in

the cornfield. Saw a Rough legged Hawk. Palo Alto.
 $50994 - 51132 = 138 \text{ miles}$

March 20, 1934, Tuesday

Into town and had generator repaired.
 Brass arm had to be smoothed down + new
 brushes put on. King Garage. \$1.86 Paid.
 Drove to Elk Lake, and found it nearly
 frozen over except for one spot, near northwest
 side. Saw thousands of Pintails, a good many
 Mallards, + single Ringnecked duck, a couple
 of Blue Geese. 11 Canada Geese, + a flock
 ✓ of 5 White-fronted Geese came sailing over
 so that the black smitting on the bellies was
 easily seen. Didn't get to check on the
 color of feet as a field character.
 Saw a pair of Bluebirds near Bennett's
 cottage.

After lunch Bennett + I returned to Elk
 Lake. Biker for black on the way that with
 a new felt coat \$2.49. changed its department.
 went via Round Lake; saw Pintails - Mallards,
 one Snow Goose, + perhaps a hundred Blue
 Geese. On way to Elk saw a migrant

Shrike I shot at it twice and Barnett dropped it on a beautiful shot. Bird from ear, with bird on the right flying past to the rear. He actually fired at right angles to the way he was setting. Rump dark gray.

On Elk Lake were the following: Pintail $\frac{3}{4}$ ths of them. Mallards, nearly $\frac{1}{4}$ th. Canada geese 11, flew from there. Redheads, 204 (by count). Ring-necks, 24 + 1; Green-winged Teal 4; Coot, 1; Golden-eye, 1 pair; American Merganser, 9; Lesser Scaup Duck, 12. Canvas-back, 1; Herring Gull 8.

Another shrike was seen, shot at three times, but not secured. Birds seen today were as follows:

Herring Gull	Snow Goose	Sparrow Hawk	James
Am. Merganser	Blue Goose	L. E. Owl (2)	Merganser Shrike
Mallard	W. G. Goose	Hairy Woodpecker	Bluebird
L. W. Teal	Canada Goose	Horned Lark	Heard Lark
Pintail	Coot	Crow	Owl.
Redhead	Killdeer	Redwing	
Canvas-back	Pheasant	Pasty BB	
L. Scaup Duck	Hemgansin	Meadowlark	
Ring-necked Duck	Marsh Hawk	Big Sparrow	
Golden-eye	E. Red-tail	Tree Sparrow	

went to Spencer and back. opened a Postal Savings.
 $51138 - 51345 = 113 \text{ miles}$

March 21, 1934, Wednesday.

Drove with Bennett to Twelve Mile Lake, Four Mile Lake, Cheever Lake, & in to Estherville for lunch. After lunch visited the Swan Lakes in Dickinson County, Christophersons Slough, Eagle Lake in Emmet County (now entirely dry), then to Swan Lake in Emmet County, Ind. & High Lakes.

Cheever Lake looks like one of the best possibilities in that County. Lots of Pintails on West Swan (Dickinson Co.).

Saw flocks of Red-wings near Mud Lake. Palo Alto Co: Cowbird. 1; Bronzed Grackle. 3 or 4; Killdeer at Mowing Pond; Bluebirds, six seen near High Lake (Emmet Co.).

Lunch at Nathansons in Estherville.

$51345 - 51410 = 165 \text{ miles}$

East end of West Swan Lake (Emmet Co) at the dam. water $1\frac{1}{2}$ feet below top of dam. Top of dam $5\frac{1}{2}$ feet above water in drainage ditch.

March 22, 1934, Thursday
At Ruthven.

Into town & back ~~542~~ 51410 - 51420 = 10 miles
 all meals at Myers.

March 23, 1934, Friday

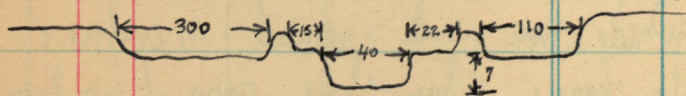
A number of ducks were swimming in Lost Island Lake in front of the cottages. These included 65 Lesser Scaup, 14 Canvas-back, 1 ♂ Golden-eye, and 100+ Pintails were sitting out on the ice. After returning late in the afternoon, the number of Bluebills was diminished, but there was one ♂ Ring-neck. 20 ♂, 1 ♀ Hoveller, 2 Green-winged Teal, & a number of Herring Gulls (26).

A Robin was singing even though snow was on the ground. Many Tree Sparrows were about, also Juncos, a Downy Woodpecker on the suet, after getting the mail including proof on the "Pecking Birds of Iowa". Bennett & I drove to Estherville - where we met several members of the Will Kily League. Then three cars of us drove to West Swan Lake to determine whether there was any duck food in the lake. By using waders and a duck boat Bennett was able to

make the bottom, and secure samples of sago pond weed, in quantities. He determined that the entire bottom, near shore at least, was covered with this splendid duck food. Therefore it is out of the question for them to try and plant food. What is needed especially is restriction of pasturing around the lake. I learned that water had not flown from Mud Lake into Swan Lake in 20 years; that it was the best duck-lake of the three; and was dry only when water was pumped out for the paving job.

Several thousand Pintails were sitting on the ice in the lake. Saw Horned larks. Meadow larks on the way out.

Drove east to look at a recommended re-flooding project on East Swan. In the middle of Section 21 the banks narrow down, so that a dam might be thrown across and the mile of reclaimed lake-bed be reflooded. A cross section of the dam site would look like this.



To raise the water onto the level fields would require at least a 7 foot dam, 40 feet long. Because these fields extend parallel along

the ditch for at least a half mile beyond where the dam would be placed. Retaining walls would not be built on either side of the ditch; 300 feet on the north, 110 feet on the south, 3 feet high. The amount of state-owned land in the area proposed to be reflooded is about 145 acres. The amount of private land to be acquired to avoid damage claims would exceed 100 acres.

Chased out over a hundred Pheasants from the short grass in Section 21, Swan Lake Township.

Also saw, and chased for some time, a fine example of Kidder's Hawk. Had white underparts, some white on back, & almost a white tail.

At a distance thought it might be a Bald Eagle.

There were thousands of Red-wings, Rusty Black-birds, & Grackles feeding on the grafed part of W. Swan Lake, $\frac{1}{2}$ mile. Shot into one flock of Red-wings & got 13 ♂'s & 1 Rusty. 11 of the ♂'s were fully plumaged, while two were 1 year old. Measured them all in the flesh & only one appeared to be ovotestes. Ten were unmistakably fortis, & two need more study. I left 6 (including the 1 year ♂'s) for Bennett to work on and I skinned out the 7. Mine included 4 fortis.

1 anotolagus, & the two as yet undetermined.

Saw 2 Eastern Red-tails. dark band on belly & red tail. Both in Emmet Co. One was feeding on the remains of a hen Pheasant. Saw a Bluejay at Lost Island Lake.

Went to Cheever Lake in afternoon after lunch at Reelfoot in Estherville. Also accompanied by several Willing League members from Estherville. Learned that tile runs into the lake from south; that it drains out from the northward, and into the Des Moines River.

Formerly a dam was placed across the outlet at edge of state property. Only 2 feet high. of stones & dirt. Could be replaced with 35 feet of plank, & some stones, already present. The group at Estherville are willing to build it if there is some assurance it won't be torn out by farmers.

To Spencer in the evening, after supper at Myers.

51420 - 51542 = 122 miles.

March 24, 1934. Saturday

At Hotel Targney. { Checked proof on "Breeding Birds of Iowa". Skinned the Red wings, & wrote letters. No driving.

Had car washed, greased, oil changed, radiator flushed.
Battery & tires checked yesterday, at Standard oil station. 113
51543.

March 25, 1934, Sunday

Drove to Round, & Elk Lakes. Windy so hardly
any on the latter. Although there were numbers on
Round. Mostly Pintails, some Mallards, about 20
Redheads, a few Loons, a Green-winged Teal, &
two Baldpate. No geese seen. Two Harrow Hawks
noted, & one Marsh Hawk.

The revised manuscript on my chapter "Non-Game
Birds" to be used in Mun. Ding & Gathers, was
brought over & left for me at the hotel. Checked
it through several times. Wrote several letters &
worked on notes.

51542 = 51590 = 48 miles.

March 26, 1934, Monday

At Hotel Langney all day; lunch there; other
two meals at Gathers. Cof. No driving done.
Worked on Emmet County project.

March 27, 1934, Tuesday.

Left Spencer about 8:00 a.m. after four nights at the Langney. Drove to Pothum where I met Jerry Spurn on his way over to bring my mail. A letter from Darling, Lebert Weir, & Ned Price. Saw Robins in Clay & Emmet Co. An E. Red-tailed Hawk in Clay; Meadowlarks in Clay, Pals Alto, & Emmet. A Northern Flicker in Pals Alto, a Migrant Shrike in Pals Alto, a Blue Jay in Emmet & horned larks in all three counties.

Bounties in Emmet Co. paid in 1933.

Wolves - \$60

Sophers \$39.20 @ .05¢

1932

Wolves. \$64

Sophers \$117.62 @ .10¢

Worked at the Court house all day. Left at 5, driving back by way of Cheever Lake. Several hundred Pintail & some Mallards feeding in the cornfield to north of lake.

Helped Spurn attempt to catch some Phalaropes by shunning them. Collected kind any birds; full moon, light to dull. Did find a

couple of Hungarians. Later went down to the Outlet. I bought a couple of chickens & the same number of pheasants.

51590 - 51652 = 62 miles

March 28, 1934 Wednesday

Two new tires & tubes had arrived at Ruthven post-office for me. Had front ones reversed & put on rear tires, and new ones on front. Picked the best of the three remaining for a spare. Paid Jondahl a dollar for changing them.

Drove to Emmetburg to see Ross Moses. We checked over latest developments on the leasing of lands for breeding areas.

We drove up around Medium Lake. Watched them pull in the seine with about 1,200 lbs of carp in it. And then around on the north-west side to watch the thousands of ducks coming & going.

Ross says water level rather constant for lake. First dam put in years ago. Second & recent one 8 years ago. Lowered the water 4.7 inches.

Drove to Union Slough. Neckly dry. Some water in drainage ditch. Not a single duck. Looks rather hopeless, except as a restoration.

project to have some effect in years to come.
 Supper in Algona, then south through Jt.
 Dodge, Ogden, to Perry. Stayed overnight at Hotel
 Pottier & Co.

Birds seen today were as follows:

Herring Gull, 3 - Palo Alto.	House Lark, 20 e. P.A. N.
Mallard, 500+ " "	Red-wing, 300 N.
G. W. Teal, 1. " "	W. Meadowlark 35. C. P.A. N.
Shoveler, 10 ¹ / ₂ 14 " "	Pinty B.D. 25 P.A. N.
Pintail 10 to 12 thousand " "	Bronzed Grackle 1, P.A.
Least Duck, 65 clay.	Eng Sparrow. +
Snow Goose, 2 Palo Alto.	Longspurs 200+ N.
Blue Goose, 30 " "	Tree Sparrow. + C.P.A. N.
Prairie Chicken, 1 " "	Robin C P.A. N.
Pheasant, 25+ C. P.A. N.	Bluebird 4 P.A.
Kingman 6 P.A. N.	
Kingbird Hawk, 1 2 miles S. of Pott. N.	
Short-eared Owl, 1. P.A.	
Savannah Owl, 1 e.	

$$51652 - 51839 = 187$$

March 29, 1934. Thursday

Perry, Breakfast at Hotel Patee. Had a flat on one of the new front tires. Found it to be a hole in the tube, but no nail was found in the tire.

Drove to Long Pond, south of Jamaica. It is entirely dry, although the marsh vegetation remains in good condition.

Birds seen in Dallas Co. were as follows:

Robin, 15; Bluebird, 6; Red wing, 10+1000+; Crow, 20; Pintail, 4; Western Meadowlark, many; Pheasant, 3; Quail (heard); Bronze Grackle, 4+100; L.C. Junco, 2; Tree Sparrow, +; Killdeer, 1; Horned Lark, 6; Sparrow Hawk, 1; Marsh Wren, 3; Rusty Blackbird, 200; Cowbird, 50; Harlan's Hawk, one, 2 miles southwest of Perry, 2nd year plumage, one 2 miles south of Brough, and one bird very dark, seen one mile east of Adel, was either Harlan's or the Western Redtail in the dark phase.

Starlings were seen, two at a place two miles south of Brough, Dallas Co. with the large flocks of Redwing, Grackles, Cowbirds, & Rusty. Also two more two miles east of Panther.

Two Arizonian Rough-legs were seen 2 miles southwest of Perry. The ♀ was considerably

larger than the ♂. Both had prominent white tails, basally, darkening somewhat terminally. The backs were slightly rusty. Underparts light, no indication of band on belly. Wing on under-surface had diagnostic black spot. First bird seen showed rusty feathering on the tarsus. Two other birds, identical in every way, were seen at Long Pond, about five or six miles to the west. As these birds were scarcely following the ones before it is out of the question that they might be same. An attempt was made to collect these birds. Two shots was fired at the first ♀. Several Red-tailed Hawk were seen. Most of these were pale but not typical of hickori. At the best these would have to be classed as intermediates, neither the Eastern nor Hickory. Several Mourning Shrikes were seen & shots taken at two of them without success.

Reached Des Moines at a little before 12.00

51839 - 51913 = 74 miles.

Drove down to the Water Works Park in the afternoon. Saw the following birds: Robin, Bluebird, Red-shouldered Hawk, Sparrow Hawk, E. Red-tailed Hawk, Blue Jay, Chickadee, Nuthatch,

Titmouse, Red-bellied woodpecker, Red-headed woodpecker,
 Junco, Tree Sparrow, Song Sparrow (heard), Cardinal.
 Downy woodpecker, Crow, 2. Meadowlark, Harris
 Sparrow, 1; Ring-billed Gull, 15; Lesser Scaup, 6;
 Pintail 30 or 40. Mallard, a few. Ring-neck Duck,
 2 + 4?, Redhead, 1 pair, Green-winged Teal 4. Baldpate
 2.

April 1, 1934 Sunday.

to Brentons Slough, Park Co.

Windy; somewhat muddy; sun out occasionally. Area
 encompassing the slough now included in a game
 management area.

The slough proper, extending west along Beaver Creek
 and east to include the former Towner Lake, should
 be reported on & recommended as a Federal Game
 area.

Birds seen were as follows:

Mallard, 7,000+ large flocks resting in all of the
 pools & cut-off portions of Beaver Creek.

Black Duck, 2 my first Park Co. record. stood out
 conspicuously among the Mallards.

Redwell, 18. name "Gray Duck" describes them
 well. a gray duck with a black tail.

Baldpate 130. A wonderful comparison possible between this bird, Redpolls, & other similar species. Mellow note a good field character.

Note. A ♂, which seemingly showed a creamy head, was thought to resemble the European widgeon in that respect. However, the color of the head was not very pronounced & the bird was probably an odd-colored Baldpate. No note was made of the color of the back.

Green-winged Teal 75. One flock of 25 or 30 was seen.

Blue-winged Teal 4. The first ones noted this season.

Shoveller 14.

Pintail 2,500. Next to Mallards, most common.

Canvasback 13. seen on small pond west of the slough. This is my first Polk Co record.

Lesser Duck 65 with the Ringnecks, Canvasbacks & Baldpates.

Ring-necked Duck 125.

Ruddy Duck 1. My first record of the season.

L. Snow Goose 8. My first Polk Co. record.

Blue Goose 120+. Resting in the slough, then moving back & forth between a wheat-field & the hillsides.

Canada Goose 6.

Great Blue Heron 2. My first observation of the season.

Am. Coot 25+

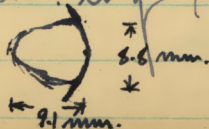
Wilson's Snipe 1. First observation of the season.
Killdeer 2; Marsh Hawk 2; Red tailed Hawk
 5; Sparrow Hawk 2; Y. Nicker 2; Horned Lark,
 2; Blue Jay 2; Crow 15; Red wings 30; C.
Meadowlark 50+; Western Meadowlark (heard);
Bronzed Grackle 7; House Sparrow +; Tree Sparrow
 +; Plate-colored Junco 6; Nuthatch 2; Titmouse 2;
Chickadee 4; Robin +; Bluebird 4.

Met Mr. George B. Coon, Deputy Game Warden
 for Polk & Dallas Co. along with Taylor Huston.
 He went around over much of Brenton Blough
 with me.

51983 - 52022 = 39 miles.

Wm. Schunke picked up a ♂ Greater Scaup, that
 evidently had killed itself by flying into the telephone
 wires, at Clear Lake, Colusa County, March
 29, 1934. Head entirely greenish; no purplish
 reflections at all. Wing, when stretched straight
 along the ruler, measured 8.75 inches, the
 chord of the wing was 9.50 in. Culmen
 1.07 1. $\frac{1}{16}$ this in width at widest part. Culmen
 1 $\frac{2}{3}$ this inches long (from ~~tip~~).

nail $\frac{6}{16}$ this



April 3, 1934. Tuesday.

Wes. Morris. Warm, clear, damp outside. Heard or saw the following birds around home: Cardinal, Chickadee, Titmouse, Nuthatch, Robin, Flicker, E. Meadowlark, Blue Jay, Mourning Dove (1st record this season), Golden-crowned Kinglet² (1st record this season).

Saw a nest of the Great Horned Owl along road to Ames (No. 65). My first Polk Co. record. Located $\frac{1}{2}$ th mile north of where No. 87 turns east. (Shell station on corner). Nest about 40 feet up. Three downy young in nest. Adult standing on the nest.

Stopped at Ames & got a set of Federal live traps. And picked up a couple of boxes for Hammetronics. Left data on owl's nest.

Low spot north of Ames would be good nesting & feeding place for water birds if creek were dammed. Field planted on shore bars. Possibly best as a private venture.

At Little Wall Lake, vegetation badly burned all around. Covered with ducks. Pintails most numerous, then Mallards. Lots of coots. Scaup, Ring-necked, some Blue-winged Teal, a few Gadwall, & Baldpate. a pair of Hooded Mergansers seen. first record of this season. Two E. Yellowlegs & two Lesser Yellowlegs flew by together. Three more

lesser decoyed back where whistled too. Then three more Lewis. A Killdeer was seen. Also one Blue Goose. A few Shovelers. Heard the Western Meadowlark.

About 12,000 ducks on Little Wall Lake.

Goose Lake. east of Jewell.

Mallard a few. Pintail a few. More Coots than anything else. About 20 Red-heads. 40 Canvas-back. several hundred Loons at least a hundred Ring-necked. at least 6 Green-winged Teal. a few B. W. Teal. a few Baldpate & a few Gadwall.

3 Great Blue Heron. 4-5 Pectoral Lampfish. Wilson's Snipe. 2 Killdeer. 6. L. Yellowlegs. about 50 Shovelers. 3 Red-billed Grebe. 3 W. Yellowlegs.

On all about 500 ducks & Coots.

A pronounced flight of Juncos, Mockers, Robins, & Grackles in Wright Co. Meadowlarks appear to be resident now. all being well scattered around.

A small flight of Red-tails.

At Wall Lake in Wright Co. water-level is one of the most important problems. The Centaker suggested ditching water from wells 2 miles north. He also suggested dredging a channel in lake which seems unnecessary. Vegetation on lake is good. Bank on east a little steep. Burned badly on west. Shore line

needs to be defined. If some more water was available the nesting area would be sufficient in the reedy growth. If it were flooded more than 3 feet additional lands would be needed.

Ducks present were shoveller, Pintail, Mallard, Green-winged Teal, Bl-winged Teal, Loon, & Baldpate. More Coos than anything else.

Saw a Sharp-shinned Hawk. Also Bluebirds, Red wings.

Drove in to see Elm Lake, north east of Clarion, Wright Co. A fine lake for water-fowl; plenty of vegetation & water. Private? land, around needed for breeding. At least a thousand ducks on it. Only shoveller, B. & G.W. Teal, Loon & Ring-necked identified. A Kingfisher seen, at north end. Also many juncos, a Hermit Thrush, & a few Song Sparrows (juddi).

Drove north to Elm Cornelia Lake. a few ducks on it. More of an open water lake. Cottages on east & west.

Saw a flock of 6 Starlings along east side of lake, at Cornelia. I believe this is the first Wright County record.

Saw several Red Sticks on way to Belmont. All except one appeared to be typical borderis.

One 5 miles southwest of Belmont appeared to be a Harlan's Hawk in the light phase. Back dark, underparts light; tail almost whitish gray - with no indication of reddish. Could not make out any mottling on tail.

(A flock of 35 Cedar Wax wings were seen at Roosevelt High, Lees Plains).

Two vesper sparrows seen north of Goose Lake in Hamilton Co. None more seen in Wright Co.

16 Killdeer along Iowa River north of Belmont.

& 1 Great Blue Heron.

About 20 Red-tails seen between L.M. & here. Hancock Co.

Several Red-tails including one Harlan, 3 miles east of Twin Lakes & two 1 mile east.

About 1000 ducks on E. Twin, mostly Bluntbills, & 2 Golden-eyes. Very windy & ducks are all at north-west side. Only a single duck on small pond across the road west. Water in it still 15 feet from road.

West Twin Lake, Hancock Co. Very windy.

Water-level has not flooded any of the vegetation as yet.

About five thousand "diving" ducks on the lake, and an absence of "tipping" ducks suggests that the depths of this lake is several feet at the most

numerous species was the Jaup. then Ring necks, Canvas back - Redheads. Some Mallards & Pintails. a few Gadwall. About 50 Shovellers were along the edges as were some Coot & Pied billed Grebes. No Teal were noted. Saw 1 ♀ Hooded Merganser, & 4 Red-breasted Merganser. About 50 Herring Gulls, ^{one, at least, long-billed} most of which were = Herring Gulls. Saw Robins, Red-wings, Song Sparrows, Juncos, Tree toads, Grackles. & Red-bellied Hawk. Saw an adult Red shouldered Hawk fly from the willows along the north side of West Twin Lake & fly to some further west along the lake. Bird partially identified at short distance. Tail, underparts, & shoulders seen plainly. Rather far north.

Many Juncos, Song Sparrows. 2 Golden-crowned Kinglet. Phoebe Great Blue Heron 2.

Near Klemme. 1 mile west. at intersection of Highways No. 15 & 179. ^{live} ~~see~~ Starlings. Attempted a shot but missed. Believe this to be the first observation in Hancock Co. Also, at the same place. many Grackles & Red-wings. Many Juncos. Song Sparrows. S.C. Kinglet. & 4 Fox Sparrows. (first observation of these this season).

The 12 inch snow at Gomer of Friday or Saturday is entirely gone. caused principally by last night's rain.

saw an adult Western Red-tailed Hawk just outside
of Garrow. Entirely dark below with rufous tail
at Eagle Lake Hancock Co. Terrific movement
of juncos. Robin. Blackbirds.

A tremendous number of diving ducks on the
lake. Scaup. Ringneck. Redhead. Canvasback. Also
many Coot. some Shovelers. Pintails. Mallards. a
few Baldpate. A flock of 15 Blue Geese. several
Great Blue Heron. Many Gulls (Herring?). One Kingfisher.
A flock of about 30 Blue Geese came in with two
snos in the flock.

Saw a large white bird across the lake feeding by
the edge of the vegetation. Had a long neck. Thought
at first it might be an Egret. Then considered the
White Pelican or Whooping Crane. Once wings were
stretched & it appeared to have no black tips.
Tried to approach it from the east side but
failed to find it. ~~whatling swan~~ never know what it was.

Total birds seen today, 6th species. These were
as follows:

		first observation of the season = X	
X	Pied-billed Grebe	2 Hamilton Co. 10 Hancock Co.	Mallard about 7,000
	Herring Gull	100+ } Hancock	Redwell about 75
	Ring-billed Gull	25+ }	Baldpate about 110
X	Red-breasted Merganser	4 ♂ Hancock	Green-winged Teal about 100
X	Hooded Merganser	1 ♂ 2 ♀ Hamilton Hancock	Blue-winged Teal about 125

- Shoveler about 175
 Pintail about 7,000
 Redhead about 650
 Canvasback about 275
 Leaf Duck at least 20,000.
 Ring necked Duck about 5,000
 Golden-eye 25 Hancock
 Snow Goose 2 Hancock
 Blue Goose 2 Wright, 1 Hamilton
 45 Hancock.
 Hamilton, Hancock.
 Great Blue Heron 1 Per
 Coot about 10,000
 Virginia Sinker 1 Hamilton Co.
 X Rusty Sandpiper 7 Hamilton.
 X Greater Yellowlegs Hamilton
 2-3
 X Lesser Yellowlegs Hamilton, Wright, Hancock
 2-3-3-6-10
 Killdeer 35 or 40
 Pheasant 10
 X W. Mourning Dove (heard) 2 Polk Story
 Marsh Hawk 10
 X Sharp-shinned Hawk 1 Wright
 G. Red-tail 30+
 Barren's Hawk 1 Wright
 3 Hancock
 X Western Red-tail 1 ad. Hancock
 Red shouldered Hawk 1 ad. Hancock
 Sparrow Hawk 2
- X Great Horned Owl 1 ad 3 nestings. Polk Co.
 X Belted Kingfisher 1 Hancock
 G. Flicker two or three hundred
 saw one in 12 M yesterday
 Polk + Hancock
 X Phoebe 3.
 P. Horned Lark 40+
 Blue Jay a few
 Crow less than 100
 Starling 6 cornelia, Wright Co
 5 1 mi. W. of Glenview, Hancock
 Cowbird 1 Polk
 25 Hancock
 Red wing several thousand
 E. Meadowlark Polk many
 W. Meadowlark well settled
 Rusty Blackbird several hundred
 Bronze Grackle "
 House Sparrow common.
 X Tree Sparrow 2 Hamilton
 4 Wright
 Tree Sparrow several hundred
 H. C. Junco thousands
 Song Sparrow 10 Wright
 Hancock
 X Fox Sparrow 4 Hancock
 Cardinal 2 Polk
 X Cedar Waxwing 35 Polk
 Mourning Shrike 30.
 W. B. Gnatcatcher a few
 White Titmouse 4

Chickadee 10. Robin several hundred.
 x G. C. Wright 2 Polk 4 Hancock Bluebird 50

x Hermit Thrush 1 Wright.

One Shrike was collected. 3 mi. west of Goodell, Hancock Co.

52052 - 52282 = 230 miles.

Kenny Nelson's address is Presbyterian Hospital.
 1758 West Congress. Chicago.

April 4, 1934. Wednesday.

at Ruthven.

Drove with Bennett in the afternoon to Round, Turnbull Green's Slough, back past Mud.

Ducks feeding in the flooded cornfields. a few Blue Geese. Saw one flock of 8 Blues + 2 Snows. Many Bluebills, Kinglets, Redhead (a few), Canvasback (a few), Baldpate (a few), Gadwall (a few), fair numbers of Shovelers. Saw 8 Gallinules on Port Island Lake + one ♂ Hooded Merganser. A pair of Am. Mergansers on Round Lake. Saw a flock of 20 Bluebirds.

52242 - 52325 = 43 miles.

April 5, 1934 Thursday

Pathman. A fog during the night, changing to a drizzle. Ground damp; muddy in places. Water under bridge at Round Lake inlet outlet, just washing over top of stone on south side. At Round Lake outlet 3 inches below top of plank at post nearest south bank on east side.

Harry Tennant call.

Three Magpies, killed at Brown's Lake, Woodbury County, fall of 1917. Hundreds present.

Old-squaw, ad ♂, killed or rather caught in a coal bin, Dickinson County, about March 1, 1934.

Very pale Horned Owl, nearly if not quite arcticus. Killed during the late fall of 1933 in Dickinson Co.

Tennant has a number of Horned Owls, Eagles, Loons, & Red-tailed Hawks. a ♂ & ♀ Surf Scoter,

Water running into Lost Island Lake from the "growing pond".

Bennett reported that no water was running as yet from the southwest corner of the "outlet".

Pleasant Lake, Dickinson Co.

dry; good vegetation; banks high, with low spot on west Salary road and outlet at southeast corner where it formerly ran into Lilly Lake.

There is a wet meadow, with some water, across the road & southwest from Pleasant Lake. N.E. $\frac{1}{4}$ of Section 13, Center Grove town.

Lilly Lake. burned, some water, not much vegetation; sloping banks on all except east. How is it drained? Would water control on it help Pleasant Lake. Is it privately owned?

Prairie Lake, Dickinson Co.

Some water in it, but not much. Banks sloping; private land all around it. Outlet from north-east corner, draining southward. Might be controlled. Land around needed for nesting & public access. Also more water. No water running in outlet, on road to the south.

Water-level in the Whitford Slough, (3 miles west of Butternut) raised in good shape. A number of ducks resting there.

April 5th (cont.)

Drove out into Henry's Pasture. Many ducks (about 5,000) on Mud Lake.

52325 - 52350 = 25 miles.

April 6, 1934. Friday

Bennett drove with me to the Fish Hatcheries at Orleans north of Spirit Lake. We met Ness Bauer, also saw Mr. Specker again. Talked over Christopherson Slough as well as several other areas useful both as for fish & water fowl.

Bauer outlined the plan for additional water in Lost Island Lake by diverting the flow from Mud by a channel. His plan has been slowed up because Mud Lake is owned by the Ft. Dodge Gun Club. However, if Mud & the slough to the west was acquired then the retaining dam should be placed by Turnbull Lake. & flood both areas.

ate at Lakes Cafe. Spirit Lake.

Drove around west side of West Okoboji. As compared with the Potholes Lakes there were hardly any ducks on West Okoboji. Mostly Coot & Blue Billed. 2 Am. Mergansers, a dozen Golden Eggs, a few Baldpates, some Pintails & Mallards, and

Raincocks. In Jemerson's Slough there was a fair amount of water, & many ducks on it including Mallard, Pintail, Gadwall, Baldpate, Shoveller, Trump, Ruddy Duck, & G-W Teal.

Stopped to see Harry Tennant. His best Iowa records are the Prairie Falcons, 2; Surf Scoter, 2; Glossy Ibis; Old-squaw 1 (+ 2?); Magpies, 2; two or three Montana Horned Owl (one of which looks like the Arctic), Duck Hawk, three Ospreys, Vindictive Hawk, & Eagles & Loons.

Visited the Court House at Spirit Lake, and listed the property on the Kottis-Mulle Lake pass.

On the way home drove by Pleasant, Lilly, & Prairie lakes (see notes on p. 131.)

Saw a Harlan's Hawk in Dickinson Co.

Watched a couple of Prairie Chickens north of Lake Center, on a burned-over field. Looked like a mated pair, but certainly a funny place for them to be.

Saw Mares and learned the latest gossip. Met Lewis & Mr. Gringle, wardens from southern & eastern Iowa.

Saw a flock of 64 chickens & another of 12 flying northwest across Turnbull Lake.

52350 - 52456 = 106 miles

April 7, 1934. Saturday

at Ruthven. In for mail. Collecting permit arrived. Worked on letters to Mr. Darling & reports to the Commission.

Saw two Greater Yellow-legs at Graving Pond. Also a Kingfisher.

Walked down on Mud Lake point in the afternoon with Andy. Shot 3 ♂ Song Sparrows. Probably birds or some race from farther west. Saw a Great Blue Heron. at least 5 ♂ Blue-winged Teal. at least 20 B.W. Teal. Gadwall. Baldpate. Canvas-back. Ringneck. Loon. Mallard. Pintail. Shoveller, one fully plumaged Ruddy duck. many Coots. a few Pied-billed Grebes.

Ervington was up in the evening.

52456 - 52476 = 20 miles.

April 8, 1934. Sunday

A wonderfully clear day, and quite warm. Worked in the morning & drove with Bennett & Pete for a while in the afternoon.

Saw a Mourning Dove in Ruthven. 2 Greater Yellowlegs on the Graving Pond. Saw a Leconte's Sparrow north of Elk Lake. Song Sparrows & Brew Sparrow at Elk Lake. Saw a Yellow-headed Black-

bird with a flock of Redwings north of Elk Lake. Visited Round the Outlet, Elk & Virgin lakes. There has been no water running out the outlet ditch from Barringer's Slough. Although much water has accumulated in the bowl-like slough, there has not been enough to flow out. This should indicate the ease of controlling water by a dam at outlet. Many Pintails & Mallards in the slough.

✓ Saw a flock of 5 ♀ + 1 ♂ Bullheads on the south end of Lost Island Lake, Clay Co. This is my first Iowa record.

Finished up a long letter to the Commissioner.

52476 - 52484 = 8 miles.

April 9, 1934. Monday.

To Spencer. Lunch with Cliff McCowan. Saw Wm. Woodcock. Learned a great deal concerning their program on lake development. Est. damage figures on Jew Lake \$19,100 on 18 acres. Also \$31,000 on 100 acres in Carroll County.

Drove to Milford. Saw 12 Lesser Yellowlegs, & 1 Wilson's Snipe north of Spencer. Saw 6 migrant Shrikes in a few miles on way to Milford.

at a point one mile north & one mile east of Milford, saw several Savannah Sparrows. 3 were

collected. also saw Long Sparrows, Tree Sparrows, Marsh
Hawks, a light ^{greenish} ~~rough~~ legged Hawk, Sparrow Hawks,
a Greater Yellowlegs, W. Meadowlarks, Horned Larks, Chickens,
Robin, Bluebird, Grackle, Redwing, Ring-necked Pheasant, Killdeer.
At a pond one mile east of Griford were Mallard,
Pintail, Baldpate, Gadwall, Ring neck, Scaup, Shoveller,
Red head, Canvasback, Coot, & Pied-billed Grebes.

Drove to Cheever Lake in Emmet Co. collected a
♀ migrant Shrike south of the lake. Saw a Sparrow
Hawk & several Marsh Hawks. Collected a vesper sparrow
at Cheever Lake. Saw another, & also several Long Sparrows
Mallard, Pintail, Shoveller, Baldpate, Scaup, Ring neck, &
Coat all noted on the lake. Also a Yellow-headed
Blackbird.

Hungarian Partridges were noted in all four counties today.
Drove back via Sheffield Slough. Some parts of it is
fairly good for water-fowl but much of it would
be marginal land.

Am a small pond north of Mud Lake, comprising
less than 3 acres, were at least 500 Bluebirds
& Ring-necks.

Bennett & I skinned the birds; he having collected
3 Long Sparrows (one very large) & only got birds &
Leconte's Sparrow.

April 10, 1934. Tuesday. Phyllis's birthday.

There were 26 Green Yellowlegs, 2 Greater, & four Killdeer on the Growing Pond.

Drove to slough three miles west of Ruthven. Much water in it, but hardly any running out the outlet. Location of dam as recommended will be the best spot. Saw a Serotus flavus. Many Pintail, Mallards, Shovelers, Blue-winged Teal. 1 Blue Goose in the slough.

South to outlet from Elbow Lake. At least 3 feet of water had come down ditch (outlet) from the slough.

At this outlet, (northwest corner of Section 27 Treman Township), along a willow row, saw a black-headed, brown-backed junco. Shot it immediately and I believe this to be the first, or at any rate the only existing specimen of *Junco oreganus schufeldtii* Coale (the "Schufeldt's Junco"). It was with a few tree & song sparrows, but not other juncos were seen. There have been numerous reports of the "Montana Junco", but this subspecies of *Junco oreganus* is not now generally accepted as valid. Sunde considers *schufeldtii* as a regular migrant at Lincoln.

At Elk Lake, or rather north of it, saw a first or second year Golden Eagle. The light tail

basally, and light spot on under side of wing was diagnostic. It was seen with crows, Marsh Hawks for comparison, and it was large. Head extended beyond wing in true eagle fashion — and emargination of primaries gave the semblance of fingers on the ends of the wings.

At least a foot of water running from slough south of Elk Lake into the lake. Many ducks on the slough, as well as 1 quail & 4 lesser Yellowlegs.

Tipped in the afternoon. 84 Lesser Yellowlegs on Browning Pond late in the afternoon. 1 ♂ Ruddy on Elk Lake.

Bennett & I drove to Coltonville in the evening to speak before the Will Wiley League.

58571 - 58657 = 86 miles

April 11, 1934 Wednesday

Very windy. At Browning Pond 85 Lesser Yellowlegs, 4 Greater. Many Robins, a Flicker, Red-wings, Buckles, Pintails. Woodcock & Bluebirds. A Herring Gull on East Shond Lake. A Tree Swallow flying over the Browning Pond. First observation of the season.

The following species of ducks seen on Round Lake: Green-winged Teal, 30; Blue-winged Teal, 15; Mallard, a few; Pintail, a few; Lesser, 20; Ring-necked, 12; Shoveler, 1; Redhead, 2; Canvasback 30. Others more numerous.

One Yellow-headed Blackbird flying at Round.

About 2 inches of water flowing over the top of the rock on the east south side of the bridge at the inlet-outlet from Round Lake. Strong wind has backed water up on south end of trail causing the increased flow into Round.

At the court house in Spencer. Made a tracing of section 25. Lake Town. also looked up the mortgage on Myron Dewey's property. Ate at Hammer's Caf.

Today we have had a dust storm, bright sunshine, rain, snow, and these various elements continued in that mixed order all day.

Shot a Migrant Shrike, near Round Lake, Clay Co. also got one of 4 Brewster Blackbirds (♂). A fully plumaged bird with violet head. Gave it to Bennett for the collection at Ames.

Saw a Downy Woodpecker at about the same place: brown back, tail very light, with only a suggestion of a band or dark tip to the tail. Didn't see legs, but underparts were light. Had diagnostic spots of black on underside of wing. Probably a male.

A great many Flickers are around today as well as thousands of 'blackbirds'.

Typed report on Dewey's Pasture, urging the

Commission to purchase that land immediately if possible.

Drove to Swan Lake in Emmet County, leaving Ruthven at about 3:45. Went via Dallas to see the sections recommended by Bode & Schenker for a waterfowl & game area. Saw Mallards, Pintails, Baldpate, Gadwall, Scaup, Shovelers, G.W. Teal, on one of the pools in Palo Alto County. Also a couple of Red-tailed Hawks.

Collected a Shrike ♀, 3 nm. East of Wallingford, Emmet Co.

At the southwest corner of West Swan Lake there were thousands of Redwings, Grackles, Rusty, & Cowbirds. Also on the slough which formerly connected with Mud, there were Mallard, Pintail, Gadwall, Baldpate, Scaup, G.W. Teal, B.W. Teal, & Coot, Shovelers.

✓ An imm. Herring Gull flew over with 3 Franklin's Gulls with it. My first observation of the season.

At East end of Swan Lake, saw Canvas-back³⁰, Red-heads, 2; Ring-necks, many Scaup, Coot, Pied-billed Grebe, & other ducks.

Water still lacks a foot of flowing over the dam.

walked out on the pond on south side. wooded point consists of at least 20 acres.

Burn oak mostly a few hellebore. Many crows nests. Since James the point extending out into water. Located across point 880 paces from road. Lowest part across neck is still 4 feet above the lake level. Point has been used for pasturing pigs. All grass cover gone except around edge. A growth of sweet clover(?) has replaced it. Slope on north a little more gradual.

Found a Great Horned Owl nest near the point. In burn oak 30 feet above ground. Adult shielding yg from strong wind. appeared to be only 1 downy white yg.

Many Pheasants (♂) seen along the road. fighting with other cocks. Also saw a pair of Hungarians in Summit Co.

Reached Myers at 9:30 P.M.

$$52 \frac{657}{574} - 52,774 = 117 \text{ miles}$$

Dimensions of an acre:

208.7 ft. sq. (area - 43,560 sq. ft.)

160 sq. rod in an acre. (10 x 16 rods)

76. ✓ Song Sparrow (coll). C. D. E. P.A.
 77. Western Tanager Dove P.A. C. E.
 78. Yellow-headed Blackbird C. E.
 79. Buffle-head C.
 80. Lesser Yellow-legs C. E. D. P.A.
 81. Blue-winged Teal P.A. C. E. D.
 82. ✓ Eastern Gopher Sperm C. E. P.A.
 83. ✓ Savannah Sparrow (sp.?) E. C. D. P.A.
 84. ✓ Junco oreganus (sp.?) C.
 85. ✓ Leconte's Sparrow C. E.
 86. Tree Swallow C. D.
 87. Golden Eagle C.
 88. Herring Gull E. C. D.
 89. Wilson's Snipe C. E.
 90. Great Horned Owl E.
 91. Thompson's Rough-leg D. C. E.
 92. Double-crested Cormorant E.
 93. Swamp Sparrow E.
 94. Cooper's Hawk E.
 95. Purple Martin E.
 96. Pectoral Sandpiper C. J.
 97. ✓ Hudsonian Gull C. P.A.
 98. Ruddy Duck C.

51. Blue Goose C. P.A.
 52. Lesser Snow Goose P.A. C
 53. Redhead C. D. P.A. E
 54. Ring-necked Duck C. E. D. P.A.
 55. Canada Goose C.
 56. White-fronted Goose C. E
 57. r Migrant Shrike C. P.A. E. D.
 58. r Bluebird C. E. P.A. D.
 59. ? Red-tailed Hawk C. E. D. P.A.
 60. Shoveller C. P.A. D. E.
 61. Kiler's Hawk E. K.
 62. Baldpate C. D. P.A. E.
 63. Northern Flicker P.A. C. D. P.A. E.
 64. E. Robin C. P.A. E. D.
 65. v Least Red-wing. E. D. P.A. C.
 66. Pied-billed Grebe C. D. E. P.A.
 67. Lesser Loon C.
 68. Red-breasted Merganser C.
 69. Hooded Merganser C.
 70. Phoebe C. E.
 71. Gadwall C. D. E. P.A.
 72. Greater Yellowlegs C. D E.
 73. Harlan's Hawk D E.
 74. Belted Kingfisher C. D. E.
 75. Great Blue Heron P.A. C. E

26. ✓ Cowbird ^{meruloides} (subsp.?) C. P.A. E. D.
27. ✓ Starling C. E. H.
28. Duck Hawk C. P.A.
29. Canvas-back C. D. E
30. ✓ Screech Owl C. E. P.A.
31. ✓ Hays Horned Lark C. E. H.
32. ✓ Blue Jay C. P.A. E
33. ✓ Rusty Blackbird C. P.A. E. D.
34. ✓ E. Hairy Woodpecker C. E. P.A. D. H.
35. American Goldfinch C
36. E. Sparrow Hawk C. D. E. P.A.
37. ✓ European Partridge C. E. D. P.A.
38. ✓ Long-eared Owl C
39. Montana Horned Owl E
40. ✓ Brown Creeper E C H.
41. ✓ Snow Bunting C
42. ✓ Western Meadowlark C. P.A. D. E.
43. ✓ Redpoll C. E. P.A.
44. ✓ Prairie Horned Lark D.E. C. P.A.
45. ✓ Western Tree Sparrow C. P.A.
46. ✓ Brewer's Blackbird C. E. P.A.
47. Northwestern Shrike E.
48. Prairie Falcon H. C.
49. Bobwhite P.A.
50. Killdeer C. D. E. P.A.

V = specimens or dead birds seen.

150

Birds seen in Clay^{=C.}
& Emmet Counties, Dec 2th

and Rosam^{=H.}
Dickinson^{=P.} Palo Alto^{=PA.}

1. ✓ Mallard D. C. P.A. E.
2. Lesser Scaup D. C. P.A. E.
3. Am. Golden-eye D. C.
4. Am. Merganser D. C.
5. ✓ Coot D. C. E. P.A.
6. Herring Gull D. P.A. C. E.
7. Ring-billed Gull D. C. P.A. E.
8. Rough-legged Hawk D. C. P.A. E. K.
9. Am. Crow D. C. P.A. E. K.
10. ✓ Bronzed Grackle D. C. P.A. E.
11. ✓ Pheasant D. C. P.A. E. K.
12. ✓ Prairie Chicken D. C. P.A. E.
13. ✓ English Sparrow D. C. P.A. E. K.
14. ✓ W.C. James D. C. P.A. E. K.
15. ✓ ^{E.} Tree Toad D. C. P.A. E. K.
16. ✓ ^{Long-tailed} ~~Black-capped~~ (?) Chickadee D. C. P.A. E. K.
17. White-breasted Nuthatch D. C. P.A. E. K.
18. ✓ Y. Downy Woodpecker P.A. C. E. K.
19. Marsh Hawk C. P.A. D. E. K.
20. Short-eared Owl C. P.A.
21. Black Duck D. C. P.A.
22. Green-winged Teal C. P.A. D. E.
23. Pintail C. D. P.A. E.
24. ✓ Labrador Duck C. P.A. E. K.
25. ✓ ^{Thick-billed} Red-winged Blackbird C. E. D. P.A.

