

February - 1938

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF BIOLOGICAL SURVEY

Waubay Reports

Waubay Migratory Waterfowl Refuge
Waubay, South Dakota
March 11, 1938

Chief, Bureau of Biological Survey
Washington, D. C.

Dear Sir:

Monthly Biological Report and report of other activities from February 1, 1938 to February 28, 1938 on the Waubay Migratory Waterfowl Refuge.

Weather:

Precipitation for February was below normal. Only .47 inches were recorded. Four inches of snow fell during the month and on the 12th. and 13th. there was much sleet.

Temperatures were normal, there being twelve days on which sub-zero temperatures were recorded. The mean temperature for February was 12.4° F. The maximum temperature of 37° F. was recorded on the 11th. and the minimum, -25° F. occurred February 18.

Eight days were clear, fourteen days were partly cloudy and only six days were cloudy.

Waterfowl:

The thirty-five Canada geese on this refuge got along very well during February and the seventy mallards continued to remain at the spring at Spring Lake. These ducks ate much corn at a self feeder placed at the waters edge. These birds became quite tame and an observer could approach within a few feet of them. Ring-necked pheasants and European partridge also fed at the self feeder placed for the ducks.

direct proportion to the reduction in numbers of rabbits and meadow mice.

Upland Game Birds:

The ring-necked pheasant population of this refuge is very good and all birds are doing well. No pheasants have been found dead this winter and it seems quite evident that the heavy losses of last winter on this refuge were due to food shortage.

Prairie chickens and sharp-tailed grouse are common but the numbers of grouse are much less than last year. Since no grouse are raised on this refuge but migrate in during the winter it seems evident that the shortage of birds here is not due to fewer birds but to better food conditions elsewhere which resulted in lighter migration.

European partridge are common and by the last of February were mated and were observed only in pairs.

Mammals:

Jackrabbits, cottontails and meadow mice are rare. A few coyotes are still seen on this refuge but the numbers are much smaller than those of last year. Weasel are common but skunk, mink, badger and raccoon are very rare.

Several feral house cats were killed during February but their numbers show a decided decrease over last year, probably due to our trapping and to the fact that the public is now killing their excess cats rather than leaving them to shift for themselves.

Grey squirrels are quite common in the wooded areas on this refuge and show a decided increase over last year. There are a few fox squirrels.

Waterlevels:

Waterlevels of all lakes on this refuge in spite of low precipitation, have continued slowly to raise due to spring flow. With normal spring precipitation, there will be ample water in all lakes and potholes in this country to carry the nesting population of ducks.

Refuge Improvement:

Thirty six hundred oak fence posts were cut on this

refuge during February. Only dead trees are cut. All brush has been piled to serve as bird shelters and to reduce fire hazard. All posts have been hauled and piled and twelve hundred have been barked and branded.

Several hundred logs and posts were gathered in woods for special purposes for other refuges.

Twenty-five cubic yards of rip-rap was removed from Dike No. 2 at the place of the leak. Six cubic yards of sand was hauled to be used in concrete work to repair the lead and extend the walls of the headgate. Twenty-five cords of wood and stumps hauled and burned to thaw the dam at the point of leakage. Fifteen cubic yards of clay was removed to get at the leak.

Work on the picnic shelter progressed quite rapidly this month. The frame plates, rafters, braces and stringers are about seventy percent complete.

The floor and walls of the basement of the cabin were painted this month.

Two 16AE and five "Slow" signs were set up in this refuge. Completed construction of eight signs and started three more. Also constructed two picnic tables. One chair and one bench were constructed from native oak for use at the refuge office.

The two Government trucks hauled the WPA men to and from work each work day. In addition, the trucks were used for hauling logs, posts, rock, etc. for use at the various projects. One trip was made to Brookings, S. Dak. for corn. Fifty bushels corn was shelled for feed.

Eight logs and three hundred seventy five posts were hauled by Sand Lake trucks for use on the Sand Lake Refuge.

Very truly yours,


Watson E. Beed
Refuge Manager.

WEB:lh



Winter Scene At Headquarters Entrance

SD-WBY-021



Shelter at Recreational Area
SD. WBY-022

OFFICE FURNITURE
Constructed of native oak



SD-WBY-023

SIGNS



SD-WBY-024

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU

COOPERATIVE OBSERVERS' METEOROLOGICAL RECORD:

Month of February, 1938; Station, Wichita; County, Osage
State, Kan.; Latitude, _____; Longitude, _____; Time used on this form, 0.8

DATE	TEMPERATURE				PRECIPITATION				DEPTH OF SNOW ON GROUND AT TIME OF OBSERVATION	PREVAIL- ING WIND DIRECTION	CHARACTER OF DAY, SUNRISE TO SUNSET	† MISCELLANEOUS PHENOMENA
	MAXI- MUM	MINI- MUM	RANGE	* SET MAX.	TIME OF BEGINNING	TIME OF ENDING	† AMOUNT	SNOWFALL, IN INCHES				
	1	2	3	4	5	6	7	8			11	
1.	12	-9		10				7.00	7.00	SE	⊕	
2.	18	-2		2	9 PM					NW	⊖	
3.	20	-8		15			Tr	Tr		SE	⊖	
4.	24	13		20						SW	⊖	
5.	25	5		25						NE	⊖	Aurora 11:15 PM
6.	29	7		19						SE	⊖	
7.	25	13		20						SE	⊖	
8.	20	5		5	10 PM					NE	⊕	
9.	5	-4		2			Tr	Tr		NW	⊖	
10.	29	2		26	On		Tr	Tr		NE	⊖	
11.	37	19		29						SE	⊖	Lunar Halo
12.	31	24		30	am		.10			NE	⊕	Sleet all day
13.	30	-2		-2	On		.25	2.00		NW	⊖	Stormy. Sleet & R.
14.	0	-16		-5						NE	⊖	
15.	8	-8		-0	On			6.00	6.00	NE	⊕	
16.	11	-7		-5		PM	.12	2.00		NE	⊕	
17.	5	-9		-5						NW	⊖	
18.	6	-25		-5						Calim	⊖	
19.	14	-24		1						SW	⊖	
20.	23	-10		3						SE	⊖	
21.	16	-8		6						SE	⊖	
22.	23	3		15	PM	PM	Tr	Tr		S	⊖	
23.	19	3		15	am	PM	Tr	Tr		SW	⊕	
24.	22	14		20						SW	⊖	
25.	35	17		34						SW	⊖	
26.	36	30		34						SW	⊖	
27.	24	25		28						NW	⊖	
28.	31	22		28					3.00	SW	⊖	Fog PM & Ev.
29.												
30.												
31.												
SUM.												

MONTHLY SUMMARY

TEMPERATURE

Mean maximum, 22.4
Mean minimum, 2.4
Mean, 12.4
Maximum, 37; date, 11
Minimum, -25; date, 18
Greatest daily range, 4

PRECIPITATION

Total, .47 inches
Greatest in 24 hours, .25; date, 14

SNOW

Total snowfall, 14.00 inches
On ground 15th, 6.00 inches
At end of month, 3.00 inches

NUMBER OF DAYS—

With .01 inch or more precipitation, 3
Clear, 8; partly cloudy, 14; cloudy, 6

DATES OF—

Fog { Light, _____
Dense, 28th
Killing frost, _____
Thunderstorms, _____
Hail { Light, _____
Moderate, _____
Heavy, _____
Sleet, 12-13
Auroras, 5

REMARKS:

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF BIOLOGICAL SURVEY
Division of Migratory Waterfowl

WEEKLY ITINERARY AND REPORT OF ACTIVITIES

Watson E. Reed Waubay, S. Dak.
(Name) (Address)

Period from 2/1/38 to 2/5/38 Waubay Migratory Waterfowl Refuge
(Day, Month, & Year) (Name of Refuge)

DATE	Outline of Work Performed
Sun.	
Date	
Mon.	
Date	
Tues.	Cold-bright-little wind. Office work, correspondence, reports. Supervised all WPA works and NYA works. To Waubay for materials needed. Large flocks of snow flakes, many redpolls.
<u>2/1/38</u>	
Date	
Wed.	Warmer-bright-some wind. Much office work and correspondence, monthly reports, etc. Supervised and instructed WPA men.
<u>2/2/38</u>	
Date	
Thurs.	Colder-bright-windy. Office work, correspondence. Distributed feed for upland game birds and ducks. Patrolled refuge hunting coyotes, saw one but snow too deep to get close enough to shoot it. Few sharp-tailed grouse as compared to last year.
<u>2/3/38</u>	
Date	
Fri.	Cold-cloudy-some wind. Office work, correspondence, reports. Supervision of WPA works, especially getting out posts and timber to transfer to Sand Lake Refuge. Sent men to Sand Lake for stake body truck.
<u>2/4/38</u>	
Date	
Sat.	Warmer-bright-little wind. Patrolled entire refuge. Fed refuge geese. To Waubay on refuge business. Delivered WPA checks.
<u>2/5/38</u>	
Date	
REMARKS:	
	(Field Official in Charge)

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TIME DISTRIBUTION

-- Activities --														
Day of Week	Day, Mo., & Yr.	Adminis- tration & Supervi- sion	Law Enforce- ment and Patrol	General Mainten- ance and Repair	Prepara- tion of Refuge Plans	Re- search & Investi- gation	Public Contacts & Rela- tions	Land Acquisi- tion & Trespass	General Office Work & Public Works (ECW, etc.)	Preda- tory Animal Con- trol	Miscel- laneous	Off Duty		
		1	2	3	4	5	6	7	8	9	10	11	12	13
Sun.														
Mon.														
Tues.	9-1-38			3						4	2			
Wed.	2-2-38									4	2		2	
Thurs.	2-3-38		3	3						2	2		4	
Fri.	2-4-38		2	3						2				
Sat.	2-5-38		2	2									3	
Total	5 days		5	8						12	6		9	

(Form to be completely filled in each week using ink or typewriter and approved by immediate superior in space provided).

Col. 1 - Fill in date each day.

- " 2 - Show hours spent in general administration and supervision, both field and office; instructions to field personnel.
- " 3 - Show hours spent on enforcement, patrol, and court attendance.
- " 4 - Show hours spent in general refuge maintenance and repair, including buildings and equipment; fire suppression.
- " 5 - Show hours spent on project plans; management plans; development plans.
- " 6 - Show hours spent on research work and investigation; bird counts, nesting, etc.
- " 7 - Show hours spent in public contact; lectures, talks, demonstrations, conferences, school, press, etc.
- " 8 - Show hours spent on lands, including permits, trespass, sale of products, etc.
- " 9 - Show hours spent in office routine, reports, correspondence, etc.
- " 10 - Show hours spent on CCC and other public works supervision.
- " 11 - Show hours spent in predatory animal control.
- " 12 - Show hours spent on activities not otherwise listed. Outline in detail on reverse side of form.
- " 13 - Show hours off duty, including holidays, sick leave, and annual leave.

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF BIOLOGICAL SURVEY
Division of Migratory Waterfowl

WEEKLY ITINERARY AND REPORT OF ACTIVITIES

Watson E. Beed		Waubay, South Dakota	
(Name)		(Address)	
Period from	2/6/38 to 2/12/38	Waubay Migratory Waterfowl Refuge	
	(Day, Month, & Year)	(Name of Refuge)	
DATE	:	Outline of Work Performed	
Sun.	:	Foggy-dark-little wind-some snow. Patrolled portion of refuge. Cared for refuge geese. Reports.	
2/6/38	:		
Date	:		
Mon.	:	Cold-dark-disagreeable. Supervised all WPA works and loading out of lumber, picnic tables and posts on trucks from Sand Lake Refuge. Office work, correspondence, reports.	
2/7/38	:		
Date	:		
Tues.	:	Cold-some snow-little wind. Careful supervision and instructions to WPA workers. Office work, correspondence. Loaded out posts for Sand Lake. Conference in evening with Chandler Young, Manager of the LaCreek Refuge.	
2/8/38	:		
Date	:		
Wed.	:	Very cold-bright-high wind. With Chandler Young on complete inspection of this refuge and WPA works. Office work, correspondence, monthly reports.	
2/9/38	:		
Date	:		
Thurs.	:	Cold-some snow-windy. Supervised entire WPA works. To Webster on refuge and WPA business. To Waubay to inquire about trains and train service to Baltimore, Md. Office work, correspondence, reports.	
2/10/38	:		
Date	:		
Fri.	:	Warm-bright-little wind. Office work, correspondence. Worked on paper to be given at North American Wildlife Conference. Supervised repairs of Spring Lake Dike No. 2. Instructions to WPA workers relative to work during absence.	
2/11/38	:		
Date	:		
Sat.	:	Warm-bright-little wind. Office work, correspondence. Preparations for trip to Baltimore and Washington, D. C. Boarded train at Waubay, S. Dak. at 5:00 PM.	
2/12/38	:		
Date	:		
REMARKS:	:		
	:		
	:	(Field Official in Charge)	
	:		

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TIME DISTRIBUTION

-- Activities --														
Day of Week	Day, Mo., & Yr.	: Adminis- tration : : and : : Supervi- sion :	: Law Enforce- ment and Patrol :	: General Mainten- ance : : Refuge Plans : : Repair :	: Prepara- tion of Refuge Plans :	: Re- search and : : Investi- gation :	: Public Contacts and : : Public Rela- tions :	: Land Acquisi- tion and : : Trespass :	: General Office Work : : Public Works :(ECW, etc.) :	: Preda- tory : : Animal Control :	: Miscel- laneous Duty :	: Off		
		1	2	3	4	5	6	7	8	9	10	11	12	13
Sun.	2-6-38			2	2					3				
Mon.	2-7-38						1			2	4		2	
Tues.	2-8-38			1	2					2	2		2	
Wed.	2-9-38			3			1			3	2			
Thurs.	2-10-38				3	1				1	1		3	
Fri.	2-11-38				1	2				1	2		4	
Sat.	2-12-38							2		1			4	
Total	7 days			6	8	3		4		13	11		15	

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- " 4 - Show hours spent in general refuge maintenance and repair, including buildings and equipment; fire suppression.
- " 5 - Show hours spent on project plans; management plans; development plans.
- " 6 - Show hours spent on research work and investigation; bird counts, nesting, etc.
- " 7 - Show hours spent in public contact; lectures, talks, demonstrations, conferences, school, press, etc.
- " 8 - Show hours spent on lands, including permits, trespass, sale of products, etc.
- " 9 - Show hours spent in office routine, reports, correspondence, etc.
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UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF BIOLOGICAL SURVEY
Division of Migratory Waterfowl

WEEKLY ITINERARY AND REPORT OF ACTIVITIES

Watson E. Beed (Name)		Waubay, South Dakota (Address)	
Period from 2/13/38 to 2/19/38 (Day, Month, & Year)		Waubay Migratory Waterfowl Refuge (Name of Refuge)	
DATE	:	Outline of Work Performed	
Sun.	:	Enroute to Baltimore, Maryland.	
2/13/38	:		
Date	:		
Mon.	:	Arrived Baltimore, Md. at 8:00 AM. Attended Wildlife Conference sessions.	
2/14/38	:		
Date	:		
Tues.	:	Attended sessions of Wildlife Conference. Gave paper on fur bearers in relation to upland game birds in winter.	
2/15/38	:		
Date	:		
Wed.	:	Attended sessions of Wildlife Conference.	
2/16/38	:		
Date	:		
Thurs.	:	Attended sessions of Wildlife Conference in morning. In afternoon to Washington, D. C. Conference with Bureau Officials.	
2/17/38	:		
Date	:		
Fri.	:	Conference with Bureau Officials relative to work on Waubay Refuge.	
2/18/38	:		
Date	:		
Sat.	:	Conference with Bureau Officials. Boarded train to return to officail station, 5:00 PM.	
2/19/38	:		
Date	:		
REMARKS:	:		
	:		
	:	(Field Official in Charge)	

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TIME DISTRIBUTION

-- Activities --														
Day of Week	Day, Mo., & Yr.	Adminis- tration and Supervi- sion	Law Enforce- ment Patrol	General Mainten- ance and Repair	Prepara- tion of Refuge Plans	Re- search and Investi- gation	Public Contacts and Public Rela- tions	Land Acquisi- tion and Trespass	General Office Work Public Works (ECW, etc.)	Preda- tory Animal Con- trol	Miscel- aneous Duty	Off		
		1	2	3	4	5	6	7	8	9	10	11	12	13
Sun.	2-13-38												8	
Mon.	2-14-38												8	
Tues.	2-15-38												8	
Wed.	2-16-38												8	
Thurs.	2-17-38				9								6	
Fri.	2-18-38				6								2	
Sat.	2-19-38				4								4	
Total	7 days				12								44	

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 - " 4 - Show hours spent in general refuge maintenance and repair, including buildings and equipment; fire suppression.
 - " 5 - Show hours spent on project plans; management plans; development plans.
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UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF BIOLOGICAL SURVEY
Division of Migratory Waterfowl

WEEKLY ITINERARY AND REPORT OF ACTIVITIES

<u>Watson E. Reed</u>		<u>Naubay, South Dakota</u>
(Name)		(Address)
Period from <u>2/20/38</u> to <u>2/26/38</u>	<u>Naubay Migratory Waterfowl Refuge</u>	
(Day, Month, & Year)	(Name of Refuge)	

DATE	Outline of Work Performed
Sun.	
<u>2/20/38</u>	Enroute
Date	
Mon.	Arrived in Naubay at 4:40 AM. Arrive at Official Station 9:00 AM. Checked correspondence and progress of work on refuge during absence.
<u>2/21/38</u>	
Date	
Tues.	Fed refuge geese. Patrolled portion of refuge.
<u>2/22/38</u>	
Date	
Wed.	Cold-bright-little wind. Office work, correspondence, reports. Delivered WPA checks.
<u>2/23/38</u>	
Date	
Thurs.	Cold-bright-little wind. Office work, correspondence, reports. Delivered WPA checks.
<u>2/24/38</u>	
Date	
Fri.	Cold-bright-no wind. Office work, correspondence, WPA reports.
<u>2/25/38</u>	
Date	
Sat.	Warm-bright-some wind. Office work, correspondence. Patrolled refuge. To Naubay on refuge business.
<u>2/26/38</u>	
Date	
REMARKS:	
	(Field Official in Charge)

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TIME DISTRIBUTION

-- Activities --														
Day of Week	Day, Mo., & Yr.	Adminis- tration and Supervi- sion	Law Enforce- ment Patrol	General Mainten- ance and Repair	Prepara- tion of Refuge Plans	Re- search and Investi- gation	Public Contacts and Public Rela- tions	Land Acquisi- tion and Trespass	General Office Work Public Works (ECW, etc.)	Preda- tory Animal Con- trol	Miscel- aneous Duty	Off		
		1	2	3	4	5	6	7	8	9	10	11	12	13
Sun.	2-20-38												8	
Mon.	2-21-38				2					3	3			
Tues.	2-22-38		2		2									
Wed.	2-23-38									4			5	
Thurs.	2-24-38					2				3			3	
Fri.	2-25-38		4		1	1				3				
Sat.	2-26-38		2			1				3			3	
Total	7 days		8		5	4				16	3		19	

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UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF BIOLOGICAL SURVEY
Division of Migratory Waterfowl

WEEKLY ITINERARY AND REPORT OF ACTIVITIES

Natson E. Reed Waubay, South Dakota
(Name) (Address)
Period from 2/27/38 to 2/28/38 Waubay Migratory Waterfowl Refuge
(Day, Month, & Year) (Name of Refuge)

DATE	Outline of Work Performed
Sun.	Warm-bright-some wind. Fed refuge geese and patrolled entire refuge.
2/27/38	
Date	
Mon.	Warm-bright-windy. Patrolled refuge and inspected all WFA works. Made out instructions to be carried out while I was attending the South Dakota State Game Warden's Conference and Meeting.
2/28/38	
Date	
Tues.	
Date	
Wed.	
Date	
Thurs.	
Date	
Fri.	
Date	
Sat.	
Date	
REMARKS:	

(Field Official in Charge)

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TIME DISTRIBUTION

-- Activities --														
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		1	2	3	4	5	6	7	8	9	10	11	12	13
Sun.	2-27-38			3	2									
Mon.	2-28-38			3	1	3				2				
Tues.														
Wed.														
Thurs.														
Fri.														
Sat.		1												
Total	2 days			6	3	3				2				

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