### BRANCH OF WILDLIFE REFUGES

NALHATIVE REPORT

HOUTING SLIP

DATE 9/30, 1954

Mr. Salyer

Mr. Krummes

Mr. Duttont PAD

Miss Baum

Section of Operations:

Dr. Morley

Hogen XAR 10-6

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D3Smiller Br-Bourn 453 10-4

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tir - Davis

Section of Land Management:

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Stenographers:

HERE BURFORD LAKE PERIOD JANUARY - APRIL, 1954 TABLE OF CONTENTS

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#### Burford Lake Wildlife Management Area Dulce, New Mexico

#### NARRATIVE REPORT

#### January, February, March, and April, 1954

#### I. GENERAL

A. <u>Weather Conditions</u>. Data in the following table were collected at the Jicarilla Agency at Dulce, which is about twenty miles airline northwest of this headquarters.

	Snowfall	Precipitati	on Max. Temp.	Min. Temp.
January	13 inches	1.35 inc	hes 58	-18
February	2 "	.25 "	68	4
March	20 "	2.29 "	70	-2 .
April	T	.28 "	76	<u>11</u>
Totals	35 inches	4.17 inc	hes Axtr. 76	· -18

During April .02 inches of precipitation were recorded at headquarters.

It was again a very mild winter.

B. Water Conditions. Runoff during the main part of the winter was extremely light and until the middle of March Burford Lake was only about three or four inches higher than at its lowest last fall. On March 17 several inches of snow fell and served to moisten the soil which by then was dry and dusty. Beginning on the night of March 21-22 and continuing until the 25th about two and a half inches of precipation fell in the forms of snow and rain, mostly snow. Snow, melting as it fell, combined with rain continued most of the 22nd and the following night, which for that time of the year was extremely warm with temperatures above freezing all night. By 5:00 AM of the 23rd the roar of water down the three gulleys of Cisneros Canyon could be heard. At 10:00 AM the flow down this canyon, which normally carries no water at all, was estimated, from rough measurements, at 100 CFS, and by 3:00 PM the flow had increased to 150CFS. More snow fell the following night but temperatures dropped to well below freezing and the runoff on the 24th was less than half that of the 23rd. The night of March 24-25 was again cold, and in spite of additional snowfall the runoff on the 25th was down to 15% of the maximum of the 23rd and it did not increase thereafter.

This was a very interesting example of the way in which temperatures can effect runoff here in the spring.

By 11:00 AM of March 23 Burford Lake was up to the late August, 1953, level: it had caught several times as much water during the past twentyfour hours as it had during all the preceeding part of the winter combined. By the time runoff from this storm had stopped, the lake had risen about a foot which still left it about a foot lower than the maximum level of 1953.

On April 22 the elevation above sea level of Stone Lake was 7230.0 feet as determined by Mr. Rennie of the agency's goil-moisture staff from a Geological Survey bench mark. Stone Lake's spillway elevation is 7236.5 feet.

On the same day the elevation of Burford Lake was 7102.7, and it was about thirteen feet below its spillway elevation which is 7115.6.

The variation in water levels on Stone and Burford Lakes has been even greater than we previously believed.

Until the storm of late March Enbom was still about one and a half feet below its spillway but by the time runoff from this storm stopped it had overflowed.

By the end of the March runoff La Jara had about six or eight acres of water in its upper body but this was separated from the main lake by dry land. The main body of this lake was about a foot above its lowest of last year as were Horse and Dulce Lakes.

Hidden Lake was almost completely dry before the March storm but caught a few inches of water before the end of that month. It was dry again at the end of April.

The Upper Thompson Lake remained dry but the lower caught approximately a foot of water and retained some of it through the end of the period.

Most of the lakes were thawing around the edges in the middle of the day during the last ten days or so of February. As late as the fifteenth of March these areas were freezing again at night. By the twenty-first of March an area ten to forty yards wide was thawed during the day on the west side of Stone Lake. On April 1 about three-quarters of the surface of Stone Lake was thawed and the ice that remained was concentrated on the east side due to wind action. On April 10 this lake was completely thawed.

Enbom Lake was noticeably slower to thaw than any of the other lakes observed. On April 1 this lake was still almost completely frozen (the recent runoff into it had simply lifted the ice). This is probably because it is fairly well shaded but its slightly higher elevation (about 7,600 feet) would also tend to retard thawing.

Burford Lake did not freeze again after receiving the March runoff.

C. <u>Fires</u>. Fire suppresion activities are handled by the agency's Forester. No fires of any consequence occurred.

#### II. WILDLIFE

#### A. Migratory Birds.

1. <u>Population and Behavior</u>. The first few ducks were seen during the last week of February at which time a narrow band was thawing around the edges of most of the lakes during the day. As these thawed areas increased the duck and coot population increased more or less in proportion until about the middle of April a peak population of 5,000 to 5,500 ducks and 2,000 to 2,500 coots were present. This population remained fairly steady during the last part of April (see forms) and into the first part of May.

Distribution on the various lakes during the peak period was approximately as follows: Stone Lake 5,000 to 5,500; Horse Lake 1200; La Jara Lake 400; Enbom Lake 150 to 400; Dulce Lake 30; Burford Lake 150 to 250; Hidden Lake none to 225. Ducks were often seen on many of the small stock watering reservoirs of which there are several scores over the reservation (the exact number is hot known to anyone).

The only wading type birds seen by the writer were five white-faced glossy ibises. However, a few individuals of other species probably came through. Extension Agent Chappell described a bird he saw which was almost certainly a great blue heron.

A few Franklin's gulls and ring-billed gulls were seen.

Few shore birds of any kind were seen.

A large migration of about 500 eared grebes was observed on Stone Lake on April 17.

The first mourning dove was seen on April 11 as compared to April 8 of last year. By the twentieth they were common.

2. <u>Food and Cover</u>. Tubers of sago pondweed and other remains of this and other aquatic plants, all leftovers from last year, undoubtedly constituted the great bulk of the duck menu this spring. Very little new aquatic plant growth was visible by the end of the period.

In a few places new growths of hardstem bulrush had started by the end of April. This was considered unusual but the spring seemed, in many ways, to be advanced: trees budded ahead of time and in Colorado some operators of mountain resorts opened for business a month early.

3. Botulism. None.

4. Lead Poisoning and other Diseases, None.

B. Upland Game Birds.

1. Population and Behavior. No turkeys, dusky grouse, sage grouse,

nor scaled quail were seen by the writer during the period. Tracks of three turkeys were seen about one mile northeast of Well's Lookout on February 2.

2. <u>Food and Cover</u>. Considering that the populations of each species is light and that the winter was very mild, the food supply for each was almost undoubtedly adequate.

3. Disease. None.

C. <u>Big Game Animals</u>. Twenty-four deer were seen on the reservation during the period by the writer. All of these were seen after our return to Burford Lake. These observations were as follows:

Date	Number	Locality	Remarks
April 2	8'	Along shore of Burford Lake on tip of Redhead Ridge	No sign of antlers seen although at least one was apparently a buck. 5:50 PM.
April 18	3	One mile south of windmil on Mud Springs Road	1 7:25 PM
April 20	7	Same	Possibly more in this group. 6:25 PM.
April 25	2	One mile SW Hdq.	Possibly more with these.
April 27	4	300 yards north of wind- mill on Mud Springs road.	9:05 AM.

No bear nor bear sign were seen during the period by the writer.

2. <u>Food and Cover</u>. The deer food supply still seems to be adequate for the population. Over much of the reservation the herd is still far below the carrying capacity of the range.

The deer seen during early spring are noticeably thinner and shaggier in appearance than they are during the fall, but this would be the case regardless of the population density.

The deer seen on April 2 were apparently feeding on foxtail grass (<u>Hordeum jubatum</u>), the first green shoots of which were then about an inch long.

3. Disease. None known.

D. Fur Animals, Predators, Rodents, and other Mammals. The following areas were trapped:

Area	Bobcats Caught	Coyotes Caught
Along an oil company road from Vaqueros Ranger Station to Caracas Mesa	10	6
Burns Canyon above La Jara Lake - Dulce Road	6	l
Button Thomas Spring west to Wirt Canyon		2
Fuerto Chiquito	1	1
Stock Driveway Canyon to a point about two miles southwest of headquarters		2
Ridge two miles south of Dulce (on north side of Soldiers Canyon)	2	2
Totals	19	12 .

An increase in coyotes is evident. During three previous years only fifteen coyotes had been caught.

E. <u>Predaceous Birds, including Crows, Ravens, and Magpies</u>. These birds were present in about their usual numbers, except for bald eagles, more of which were seen than ever before (probably because more time was spent where there would likely be seen).

F. Fish. Because of the low level of La Jara Lake, few, if any, fish survived the winter.

No evidence of fish were seen in Enbom Lake, which was stocked with bluegills and bass last September.

#### III. REFUGE DEVELOPMENT MAINTENANCE

A. <u>Physical Development</u>. Practically all of the field time during this period was devoted to predator control work. Maintenance work consisted mostly of details around headquarters and on the jeep pickup and having the horse trailer repaired.

B. <u>Plantings</u>. None.

C. Collections. None

D. Receipts of Seed and Nursery Stock. None.

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#### IV. ECONOMIC USE OF REFUGE

Economic uses of the area are under the supervision of the Bureau of Indian Affairs.

V. FIELD INVESTIGATION OR APPLIED RESEARCH

None.

#### VI. PUBLIC RELATIONS

A. <u>Recreational Uses</u>. There was a little fishing through the ice on La Jara Lake, perhaps 25 fisherman-days. Otherwise recreational use was confined mostly to uranium hunting, which probably has more value as a sport than as a business, at least on this area.

B. Refuge Visitors. None.

C. <u>Refuge Participation</u>. The films "Hunting the Puma" and "Behind the Flyways" were shown to a group of about twenty-five people in Dulce on March 16.

D. Hunting. None.

E. Fishing. The fishing through the ice on "a Jara Lake was only moderately successful.

F. Violations. None.

#### VII. OTHER ITEMS

A. <u>Items of Interest</u>. A large "wolf", actually a domestic dog turned loose and gone wild, was caught on Mr. Leo Vicente's winter range south of the Otero Ranch on March 10. This animal had killed or helped kill nineteen head of Mr. Vicentes sheep. He still wore the wire around his neck which the Indians customarily attach to dogs before disowning them.

September 3, 1954

Approved by:

W Kekartehun

Acting Regional Director.

Respectfully submitted,

Elyar M. Gomes

Edgar R. Gomer Refuge <sup>M</sup>anager

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3-7150a Cont. NR-1 (Rév. March 1953)

Interior Duplicating Section, Machington, D. C.

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# WATERFOWL (Continuation Sheet)

(7) Potal Productions	Week	s of	(2 repor		peri	Lod		(3) Estimated	: (4) : Production
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HONTHS OF JERMINT & TO DETLY 30 - 1954

Interior Duplicating Section, Washington, D. C. 37944 1953

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3-1751 Form NR-1A (Nov. 1945) Refuge. Burfo	ord Lake V	Vildlife )	(other	RATORY E than wat Months		7	to April		94. <b>54</b> .	III. Doven
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(1)	Species:	Use the correct names order. Avoid general form, other species of priate spaces. Speci significance. Groups	l terms as "seagu occurring on refu ial attention sho s: I. <u>Water and l</u> II. <u>Shorebirds</u> III. <u>Doves and l</u>	ll", "tern", et ge during the r uld be given to <u>Marsh Birds</u> (Ga <u>Gulls and Ter</u> <u>Pigeons</u> (Columb	c. In addition reporting period those species wiiformes to Ci <u>ms</u> (Charadriifo piformes)	to the birds lis should be added of local and Nati coniiformes and ( ormes)	sted on in appro- lonal Gruiiformes
(2)	First Seen:	The first refuge reco	ord for the speci	es for the seas	on concerned.	Passeriformes)	
(3)	Peak Numbers:	The greatest number of	of the species pro	esent in a limi	ted interval of	time.	/
- (4)	Last Seen:	The last refuge record	rd for the species	during the se	ason concerned.		h
(5)	Production:	Estimated number of 3	young produced bas	ed on observat	ions and actual	counts.	
(6)	Total:	Estimated total number	er of the species	using the refu	ge <u>during the p</u>	eriod concerned.	•

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3-1754 Form NR-4 (June 1945)	Refuge Durford Lak	ni eona	A.	LL M	2003	120UB1	IIs :	ending A	Incindi	) arread	san uu	- SILA	4-RU 1	Form
(1) Species	Density Removals				00800	i, midk, ation of	1000	(4) 0	tant ed	189		(5) (1)Total		
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Tassel-eard Squi Ground Squirrels, Beaver Muskrats Porcupine Blacktail jackrab Cottontail, proba Snowshoe hare, pk • List removals by REMARKS:	700,000, common, four bit 500,000, meadow and bly two species, 700,00 200,000, pine forests, 	common pland kny sts, seld rocky of akes, u non local ad in alu ad upland 00, all i very ray no gain in gain sed for of bata r	alls ben ti lan ly aost ka ype eno all ben ben ben	seen mber dorid all all all all all all all all all al	ion i d i d ar iges un bo i ype un c i d ype i d ar i d ar i d ar i ges i d ar i d ar i ges i d ar i d ar i d ar	d by not con not on by frag frag to to to to to to to to to to to to to	in a real real real abor base hore nclus nclus nclus in ri base fur in ti coadi in ti coadi coadi in ti coad	to be p of sores formation formation is of cov dwoods, is sprus whenaged is sprus the to star, i the to shown damaged d total forvanto	ton ta maber maber he are he des he des and he tample titted militif maple tittet miter. reviour miter. reviour miter. reviour dicate mould tates tit	ta ta ta ta ta ta ta ta ta ta ta ta ta t		ITTO 10404	PEMOV. DI SPOI	
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#### INSTRUCTIONS or first April 30.

SHALL MAMMALS

Form NR-4

Spectes

Gray Fox

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Form NR-4 - SMALL MAMMALS (Include data on all species of importance in the management program; i. e., muskrats, beaver, coon, mink, coyote. Data on small rodents may be omitted except for estimated total population of each species considered in control operations.)

Discoultion of

mail

SPECIES:

DENSITY:

Use correct common name. Example: Striped skunk, spotted skunk, shorttailed weasel, gray squirrel, fox squirrel, white-tailed jackrabbit, etc. (Accepted common names in current use are found in the "Field Book of North American Mammals" by H. E. Anthony and the "Manual of the Vertebrate Animals of the Northeastern United States" by David Starr Jordan.)

Gomada Mamo Applies particularly to those species considered in removal programs. Detailed data may be omitted for species occurring in limited numbers. Density to be expressed in acres per animal by cover types. This information is to be prefaced by a statement from the refuge manager as to the number of acres in each cover type found on the refuge; once submitted, this information need not be repeated except as significant changes occur in the area of cover types. Cover types should be detailed enough to furnish the desired information but not so much as to obscure the general picture. Examples: spruce swamp, upland hardwoods, reverting agriculture land, bottom land hardwoods, short grass prairie, etc. Standard type symbols listed in Wildlife Management Series No. 7 should be used where possible. Figures submitted should be based on actual observations and counts on representative sample areas. Survey method used and size of sample area or areas should be indicated under Remarks.

(3) REMOVALS:

(5)

-ALUODA

tion

(2)

(1)

Indicate the total number under each category removed since April 30 of the previous year, including any taken on the refuge by Service Predatory Animal Hunter. Also show any removals not falling under headingslisted.

(4) DISPOSITION OF FUR: On share-trapped furs list the permit number, trapper's share, and refuge share. Indicate the number of pelts shipped to market, including furs taken by Service personnel. Total number of pelts of each species destroyed because of unprimeness or damaged condition, and furs donated to institutions or other agencies should be shown in the column provided. Ist removals by Predator Animal Hunter

(5) TOTAL POPULATION: Estimated total population of each species reported on as of April 30.

nd betrogell

REMARKS:

Indicate inventory method(s) used, size of sample area(s), introductions, and any other pertinent information not specifically requested. 116007

3-1752 Form NR-2 (April 1946)	Refuge <sup>B</sup> urford Lake Will		AND GAME BIRI		Hary	to 🛓	1613 1613 1613 1613
(1) Species	(2) Density	(3) Young Produced	(4) Sex Ratio	(5) Remov		(6) Total	(7) Remarks
Common Name	Cover types, total per acreage of habitat Bir	tal tal	Percentage	Hunting For Re-	For Research	Estimated number using Refuge	Pertinent information not specifically requested. List introductions here.
usky Grouse un drode belre Laudos Sage Grouse de	40,000 acres pine 200 and fur coverad slopes 20,000 acres open at sagebrush 800	indun setupli ts elques evi	everting agri and type sym possible.	C so al social so tanta textures to so to so to so to so	es ed l	200 solar sign ghan throas 7 . of moltarmede ma25 only	Not based on census
Scaled quail	ay 300,000 acfes pine	o , yashaa	*	Oresdi O aming a lablav	atique a lique	nuulos ain toequ releat	Not based on consus. Seen only in South Largo Canyon
	oak, juniper covered anareas areas na sini bolraq dagar aladaso gainab egaler a	e during the		bau nedan tiq abih	n Lade	100 bedamldad ber skalan	(5) REMOVALST ausano no besad joli (6) TOTALT
liso .	ea covered in survey. ly requested.						

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\* Only columns applicable to the period covered should be used.

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#### INSTRUCTIONS

#### Form NR-2 - UPLAND GAME BIRDS.\*

(1) SPECIES:

#### Use correct common name.

(2) DENSITY:

Applies particularly to those species considered in removal programs (public hunts, etc.). Detailed data may be omitted for species occurring in limited numbers. Density to be expressed in acres per animal by cover types. This information is to be prefaced by a statement from the refuge manager as to the number of acres in each cover type found on the refuge; once submitted, this information need not be repeated except as significant changes occur in the area of cover types. Cover types should be detailed enough to furnish the desired information but not so much as to obscure the general picture. Examples: spruce swamp, upland hardwoods, reverting agriculture land, bottomland hardwoods, short grass prairie, etc. Standard type symbols listed in Wildlife Management Series No. 7 should be used where possible. Figures submitted should be based on actual observations and counts on representative sample areas. Survey method used and size of sample area or areas should be indicated under Remarks.

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- (3) YOUNG PRODUCED: Estimated number of young produced, based upon observations and actual counts in representative breeding habitat.
- (4) SEX RATIO: This column applies primarily to wild turkey, pheasants, etc. Include data on other species if available.
- (5) REMOVALS: Indicate total number in each category removed during the report period.
- (6) TOTAL: Estimated total number using the refuge during the report period. This may include resident birds plus those migrating into the refuge during certain seasons.
- (7) REMARKS: Indicate method used to determine population and area covered in survey. Also include other pertinent information not specifically requested.
- \* Only columns applicable to the period covered should be used.

## TABULATION OF PUBLIC USE

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Refuge Burford Lake Wildlife Management Area

		Visitor Days This Period	Visitor Days To Date C.Y.
1.	Hunting Use (Where permitted)	0	0
2.	Fishing Use	25	25
0	Miscellaneous (All other uses)	50	50
	Estimated total use all types	75	75

