BRANCH OF WILDLIFE REFUGES

NARRATIVE REPORT

ROUTING SLIP

DATE May 15. 1952

Mr. Salyer ME Boundary Lit

Mr_DuMont- PAD Miss Baum

SECTION OF OPERATIONS: Martin 9. h.B. Mr. Roger

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SECTION OF HABITAT IMPROVEMENTS

Hr. Griffith Bannes WSR

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REFUGE Mo	osehorn			
PERIOD Ja	nuary-April.	1952	 	

Moosehorn National Wildlife Refuge January - April, 1952

> Washington County, Maine Hq.- Calais Sub. Hq. Dennysville, Maine

Personnel

Manager Clerk Maintenance-Man (Equip't) Maintenance-Man Refuge Aid Tower Man Merton Radway Stanley McConvey Harold Stanhope Leslie Bagley Arnold Davis Dale Smith

WAE Labor

Laborer Unclass. Laborer Unclass.

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Horace Greenlaw William Howard

Moosehorn National Wildlife Refuge

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Moosehorn National Wildlife Refuge

January- April, 1952

I General

A Weather Conditions as summarized at the Eastport Weather 'Station were as follows:

Month	Snow	Rain	Total <u>Precip.</u>	Maxt.	Min. T.
January	44.9"	4.73	7.24	49	-8
February	41.8"	1.79	5.47	45	7
March	7.3"	.94	1.49	51	12
April	*****	2.41	2.41	66	27
Total	94.0"	9.87	16.61	66	-8

Precipitation was above normal during January and February and below normal in March and April. Very little snow accumulated until Feb. when over 3 ft. came and remained. This blocked many roads and stopped all woods operations for the balance of the winter. Floods were anticipated but temperatures have remained close to the freezing point during the period allowing a gradual runoff. In fact, at the end of April there were still small snowbanks scattered around. This condition has been very satisfactory for our water controls during the spring runoff.

B- Water Conditions have been very satisfactory thru most of the period. Barn Meadow marsh rose during the first part of April about a foot and a half above planned level for a few days in spite of removal of the stoplogs. Magurrewock Marsh rose to about a foot above level in spite of stoplogs being removed and had dropped to about 6 inches above pool by the end of April. However, nesting sites are not threatened so seriously with flooding as in Barn Meadow marsh.

C- Fires- Due to no extremely high temperatures and slow runoff ground conditions have remained generally moist. There has been very little fire hazard except in old fields on the Refuge. No fires have occurred except controlled burning.

II WILDLIFE

A- Migratory Birds

1- Waterfowl- First migrants arrived March 6 when 25 black ducks were seen in Moosehorn Stream and lower Magurrewock marsh. Ice did not break out of the marshes and streams until the first part of April and by the middle 500 blacks were estimated on all marshes, streams and flowages. Many of these birds paired up immediately altho migration movements continued thru the end of April. Food and cover appears to be satisfactory for the usage. At least 25 ducks were seen on the newly created Nat Smith marsh and 3 pairs of blacks seem to be lined up for nesting there. First ringneck ducks arrived about April 3 with at least 6 pairs. Peak population was reached April 23 with an estimated 100 birds. Pairs were immediately in evidence in both Magurrewock and Barn Meadow marshes. This is possibly the greatest number of ringnecks ever present in the spring migration.

Six bufflehead arrived March 21 and 25 were present by April 14. The butterball occurs only in small numbers but this is more than usual. Four mallards stopped with the migration and it is possible that they may nest here. Several blue wing and green wing teal were seen. The wood duck were conspicuous by their absence but they should come in during May. Goldeneyes and Mergansers were present during the entire period.

2- Woodcock and Wilson Snipe The peak of the woodcock migration appeared to be about April 12. While no definite census method has yet been developed it is believed that the numbers in the migration was down by at least 10%. During the last 3 weeks of April personnel have covered many parts of the Refuge in making evening counts of singing males on the interior and often isolated sections. To date a total of 34 have been recorded. Howard Mendall of the Maine Coop. Wildlife Research Unit regularly checks those along the roads and some of the trails to continue his records for the past 10 years. At the end of the singing count the entire total for the Refuge will be combined. A number of openings made during the winter were used this spring. A number of Wilson Snipe at widely scattered points on the area were heard during the woodcock counts. No mourning doves were seen or reported during the period.

B- Upland Game Birds- Ruffed grouse are seen regularly in scattered sections over the bulk of the Refuge and their frequency indicates a general increase. The birds are seen budding from time to time in young birch and popple. No definite predation has been seen altho remnants of two dead birds has been found. Spruce grouse are seen on rare occasions and their population is very small. One pair of ring neck pheasants was released in the vicinity of headquarters and the birds are occasionally seen. Several are on the Edmunds Unit.

C- Big Game Animals- Winter feeding conditions were very desirable for white tailed deer except for a period of about six weeks in February and March when about four feet of snow piled up in the woods. During the snow deer were yarded to a large extent in and around the cedar and other coniferous growth. Young hardwood and shrub species are sufficiently interspersed to provide sufficient food. On January 6 with about a foot of snow on the ground the Manager flow for about an hour over the greater part of the Moosehorn Unit and counted 94 deer. On February 29 with about 3 feet of snow only 5 deer were seen but tracks around coniferous growth indicated plenty of activity. Three deer were found that had been killed by bobcat and fragments of 6 other deer were found. Condition of the general herd seems to be very good and no evidence of disease has been seen. It can be seen that an aerial census would be unsuccessful because of the density of the cover. It is believed that the only solution is a census by the "cruising method" which would be very time consuming and probably wouldn't be justified. No moose or signs were seen or reported on the refuge.

D- Fur Animals, Predators, Mammals.

Muskrats

On March 15 a census was taken of muskrat houses in Magurrewock and Barn Meadow marshes. A summary of the counts over a period of several years is as follows:

Season -	Upper Magurrewock	Upper Barn Meadow
1945-46	32	11
1946-47	140	24
1947-48	287	52
1948-49	237	5
1949-50	120	40
1950-51	15	23
1951-52	39	73

The above does not represent a true succession since high flooding interfered at regular intervals. This occurred in the season of 1950-51, while it did not take place in the present season. A trapping program has not been conducted as yet altho a removal may be necessary from Barn Meadow next season. Shooting muskrats along the R.R. Tracks at the lower side of both marshes was heavy this spring and the practice probably pulled a small amount of our stock. Rats observed seem to be in good shape and there is plenty of food in the form of sedges, pickerel weed and burreed.

Beaver

Most flowages are in locations where waterfowl habitat is provided and used and where little damage is done. However, the Moosehorn flowage at the Mile Bridge and the Burce Brook flowages at both the highway and adjacent to Meddybemps Lake have become a nuisance by periodically flooding the R.R., highway or roads to private camps. For this reason several beaver were removed alive last period and in January 7 small and 1 large beaver were removed by steel traps from the lower Burce Brook flowage. Additional removals by State Wardens will be necessary. Based on the number of houses and activity our population is increasing. The flowage at Two-Mile Meadow is now well developed with dams above and below the trail.

Bobcat

Two "cats" were hunted and killed by dog and gun on the Refuge by State Warden Clark and a total of 18 were shot thruout Washington County by several wardens. Three deer were found killed on the area by bobcats. On most trips thru the Refuge after a fresh snow from one to three tracks are seen. However, they roam large territories and a population would be only several at a time.

Otter

Otter are common on the refuge, tracks and individuals being seen from time to time especially along beaver flowages. One was taken in a beaver trap during the winter by State Wardens. The frequency of fish is of course their primary attraction.

Porcupine

There has not been an opportunity to census this animal but there is no doubt that it is increasing. Damage to trees, however, seems to be limited mainly to local stands that include hemlock, tamarack and fir. It is believed that control measures are not yet necessary.

Skunk

Skunk are common around the olf fields where grubs and mice are found but it is not believed that their numbers are large. Destruction of eggs of ground nesting birds no doubt takes place but their good probably outweighs their bad points.

Squirrels

Reds are in great abundance while greys, flying and chipmunks are far in the minority. With a scarcity of nut trees coniferous tree seeds probably form a part of their staple diet.

Woodchucks

Woodchucks are only occasionally seen and we don't miss them at all. Their damage to dikes can be very disconcerting.

Fox

While reds are occasionally seen it is doubtful that we have many greys if any. Predation on young woodcock has been seen in the past but we believe that the present population does not justify an overall program. However, individuals in the act of such destruction or in local areas should be killed.

Raccoon

Raccoon are fairly common but none have been seen during the period. Predation no doubt occurs but control would be necessary only locally where bothersome at bird banding traps and similar situations.

E- Predaceous Birds, Crows, Raven, etc.- Five bald eagles harassed the ducks in Magurrewock marsh about a week during April after which only one remained. Crows and ravens occur in numbers of several hundreds but there is little or no damage at this time of the year. Several sparrow hawks are seen regularly along Charlotte Road and a single Cooper's Hawk was seen along the tower road.

F-Fish is not a very important subject this period. Due to poor ice and then heavy snows the ice fishing amounted to practically nothing. Swollen streams delayed trout fishing until the last two weeks of April, when several catches reached 6 - 8 good trout. About a dozen messes of clams were taken from Burnt Cove on the Edmunds Unit. Trout fishing was principally on Moosehorn and Hobart Streams.

III REFUGE MAINTENANCE & DEVELOPMENT

A- Physical work consisted to a large extent of equipment and building maintenance, partly because of the necessity and partly because ground conditions allowed little else during most of the period. Summary of activities is as follows:

-AC HD-10, Clutch overhaul, tracks rebushed and pinned, entire machine dismantled and parts ordered for bearings and gears in transmission and final drive.

-IH T-9 Tractor, tracks pinned and bushed, several new rollers, frame repaired, transmission gears.

-Cat. 22, carburetor, fuel pump and general maintenance.

•GMC Truck Tractor-timing gear and bearing inserts.

-Various maintenance of 10 motor vehicles.

-Constructed trailer hitch, tire carrier, tool box on 5 pickup trucks. -Constructed radio box and reinstalled mobile unit.

-Checked and maintained all fire equipment.

-Set up new tractor plow and mower.

-Cut and had sawed about 10 MBM of lumber, including 1000 cedar for Blackwater and 3000 pine and spruce for Monteguma.

-Constructed 2 garage doors and other maintenance at Edmunds Unit.

-Picked up transferred equipment at Parker River.

-Cleared 500 yards shoreline brush along Magurrewock marsh.

-Provided a number of new clearings for woodcock.

-Control burned about 100 acres for woodcock habitat improvement. -Completed fire lane around Headquarters.

B- Plantings- No **activity** in this category except that plans are underway for breaking up about 50 acres of old fields for sowing grains this spring and summer. In fact the field of about 4 acres at the head of Broad Cove was cleared on April 30 of young fir and spruce up to about 6" in diameter.

C-Collections- None made.

D- Receipts of Seed- From Swan Lake N.W. Refuge 100 lb. of select smartweed seed was received in March. In April 100 lb. of wildmillet seed was purchased. Seed will be used in sowing along the edges of Magurrewock marsh and the newly developed Nat Smith Marsh.

IV ECONOMIC USE OF REFUGE

A- Grazing- None this period.

B- Haying- None this period.

C- Fur Harvest-Only those nuisance and accidental animals taken and reported on NR-4, consisting of 13 beaver, 1 otter and 2 bobcat. The otter was an accidental catch in a beaver set. The bobcats were animals hunted off the Refuge but which ended up on the Refuge and were shot by State Warden Clark. Removal of the beaver by State Wardens was at our request, five of them being taken in live traps last fall and seven taken in steel traps during the period. Hides were taken by the State since certain factions have not yet agreed to our participation in the furs.

D- Timber Removal- A total of 28 permits were issued for timber products during the period covering approximately 175 cords of firewood. 10 MBM of sawlogs, 20 cords of pulpwood and about 10,000 weir brush. Firewood sold for \$1.25, sawlogs \$13. for spruce and \$15. for pine, pulpwood for \$4.50 and weir brush for \$15. per thousand. Purpose of all cuttings is to provide openings for woodcock and other wildlife and help the gradual coversion in certain areas back to hardwood for better woodcock habitat. Public relations are also helped in supplying their needs. An estimated 25 acres was cleared by these cuttings.

- E- Other Uses- One permit was issued for the removal of 10 yards of topsoil at \$.25 per yard for personal use on a lawn.

V FIELD INVESTIGATION OR RESEARCH

A- Nothing in this category.

VI PUBLIC RELATIONS

A- Recreational use during this period consisted of only occasional people on general observations, study of waterfowl, woodcock and other birds.

B- Refuge Visitors of note were as follows:

1-14, Arthur Miller, Reg. Refuge Supervisor.
1-21, Richard Parks, Maine Inland and Fisheries & Game.
1-21, Harold Blanchard, Maine Inland and Fisheries & Game.
1-31, Fred Holt, Maine Forest Service.
1-31, Willard Wight, Maine Forest Service.
2-4, Elmon Radway, Reg. Lands Supervisor.
3-18, Lee Brackett, U.S. Game Management Agent.
4-1, John Dudley, Town Judge.
4-1, Robert E. Peary, Jr., State Engineer.
4-5, Arthur Miller, Reg. Refuge Supervisor.
4-9, O.H. Johnson,
4-9, D.R. Gascoyne, Regional Director
4-24, Howard Mendall, Me. Coop. Wildlife Research Unit.

Maine Forest Service officials above visited the refuge in connection with cooperative fire protection plans. U.S. Game Managment Agent Brackett conducted a day of discussion on law enforcement policies and procedures at our request. The State Engineer stopped to go over plans for the Hobart Bog spillway and fishway.

C- Refuge Participation- Service movies were shown at meetings of the Rotary Club and the Lions Club in Calais. Discussions with various groups from time to time tended toward explaining purposes and policies of organized conservation.

D- Hunting- None on the Refuge.

E- Fishing- success and activity were low during the period. Ice was formed late and soon after was covered by heavy snow so that fishing thru the ice was practically impossible. Stream fishing was held up until the last 2 weeks of pril because of high water. A few strings of brook trout were taken from Moosehorn Stream.

F- Violations- None during the period but one loaded gun case was taken into State Court with the assistance of State Warden Hitchings. This man was found walking in a refuge field at midnight with a loaded gun behind in his car. In State court he was fined \$10. and costs, given 30 days in jug and placed on probation for a year. However, fine and sentence were suspended. Only punishment will be loss of his hunting license for a year, which State law requires.

VII OTHER ITEMS

A- Items of Interest- On the eveing of March 7 the entire Refuge staff attended a meeting of the Border Firemans Association at East Machias where Fred Holt of the Maine Forest Service outlined the New England Fire Protection Pact.

On March 31 thru April 2 Clerk McConvey attended the fire School at Ellsworth, Me.conducted by Maine Forest Service officials.

On January, 1952 a small flock of Hungarian partridge were seen on a small island near Eastport. Presumably they have moved across from island to island from Canada where they have been stocked. This is the first flock in the State. Also in January a lynx was shot and taken near Lubec. While they are occasionally taken in the northern part of the State they are rare in this section.

During the period the Fur Management Plan and a revised Economic Use Flan were completed and submitted. Also US GS sheets were completed for fire control maps and distributed to cooperating ag agencies. Many minor maintenance jobs were performed, improvements in systems were effected, training of personnel was carried out from time to time.

During the period the following new equipement was received:

- GMC Rack Dump Truck.
- Farmall M Tradtor.
- 2 Chev. pickup trucks.
- Farmall tractor mower.
- IH Tractor 3 bottom plow.

B- Photographs typical of the period are shown on the following pages.

C- Signature.

May 5, 1952

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Merton Radway, Refuge Mgr.

Date May 7: 1952

Regional Office

	A. A. or other A. M. Su				A TERFOWL ***			sate		
	Refuge	Moosehor		Mont	hs of Jan	uary	to April	19	52 of ot p	he form.
	(1) Species				ntration	(4) Last Se	en	(! Young Pr	5) roduced	(6) Total
	Common Name	Number	Date	Number	Date	Number	Date	Broods Seen	Estimated Total	Estimated for Period
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	Golden-eye Bufflo-head Ruddy duck	6	3-21	100 25	4-25 4-14		oprentrati	5100 Barl	areved In	500 100
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3-175 (July	50 7 1946)				(over)					Form NR-1

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Total Production:	SUMMARIES
Geese Ducks	Total waterfowl usage during period 1800 Peak waterfowl numbers 700
Coots	Areas used by concentrations Egurrewock Marsh
Bedhead Ring-necked duck Cenvae-back Scaup	Principal nesting areas this season
Bide staged cont Cinnamon teal Showeller Wood duck	Reported by
(1) Species:	INSTRUCTIONS In addition to the birds listed on form, other species occurring on refuge during the reporting period should be added in appropriate spaces. Special attention should be given to those species of local and National significance.
(2) First Seen:	The first refuge record for the species during the season concerned in the reporting period, and the number seen. This column does not apply to resident species.
(3) Peak Concentra- tion:(4) Last Seen:	The greatest number of the species present in a limited interval of time. The last refuge pectrd for the species during the season concerned in the reporting
(5) Young Produced:	Estimated number of young produced based on observations and actual counts on repre- sentative breeding areas. Brood counts should be made on two or more areas aggregating 10% of the breeding habitat. Estimates having no basis in fact should be omitted.
(6) Total:	Estimated total number of the species using the refuge <u>during the period</u> . This figure may or may not be more than that used for peak concentrations, depending upon the nature of the migrational movement.

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Note: Only columns applicable to the reporting period should be used. It is desirable that the <u>Summaries</u> receive careful attention since these data are necessarily based on an analysis of the rest of the form.

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III. <u>Doves and Pigeons</u> : Mourning dove	iry to April	TORY BIRDS han waterfowll Months of	i rother	je osebom.	Form NR-1A (Nov. 1945) Refu
White-winged dove	N DEPENDENCE OF THE OWNER		the second second		
5) (6) notion Total	een Produ	(4) ers Last S	en Peak Num	Pirst S	(1) Species
IV. <u>Predaceous Birds</u> : Golden eagle	Number Tota Date Colonies Men	Date Vumber	Date . Vumber	Tedmul	Comnon Name
Duck hawk Horned owl Magpie				:abris	I. Water and Marsh
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				es, Strigiformes an	nd predaceous
					eriformes)
(2) First Seen:	The first refuge reco	ord for the specie	s for the season c	oncerned.	
(3) Peak Numbers: 7	The greatest number o	of the species pre	sent in a limited	interval of time.	
(4) Last Seen:	The last refuge recor	rd for the species	during the season	concerned.	
(5) Production: H	Estimated number of y	young produced bas	ed on observations	and actual counts	
(6) Total:	Estimated total number	er of the species	using the refuge <u>d</u>	uring the period co	oncerned.

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3-1752 Form NR-2 (April 1946)	Refuge	m		UPLA	AND GAME BIRD		Jamar	7 to	1613 . 194 52
(1) Species	(2) Density		(3 You Produ	ng	(4) Sex Ratio	(5) Removals		(6) Total	(7) Remarks
Common Name	Cover types, total acreage of habitat	Acres per Bird	Number broods obs'v'd.	Estimated Total	Percentage	Hunting	For Re- stocking Fur	Estimated number using Refuge	Pertinent information not specifically requested. List introductions here.
Ruffed grouse	9000 acres upland wood and reverted agricultural land	International	rin Fin eLi Ali soriefi mos e tan Ma	odragi odianu VE odža odža	i galdiavet - equi brabu alcheot au gloschev pa frucci asses	osta Statistica orte	uh nardb Ves sto. M be use u súd do	500	and the second sec
Spruce grouse	500 acres conifer growth.	14	toqu 🛔	state 6	, beouborg gi destices an	you	umber of thative b	30	(3) YOSNO PRODUCED:
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INSTRUCTIONS

Form NR-2 - UPLAND GAME BIRDS.*

(1) SPECIES:

List introductions here.

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.

man Last man

- (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.

1825

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Form NR-4			SMAL	L MAN		POUST	IMI			14 And					
Refuge Noosehorn April 30, 194															
musirate, beaver, coon; mink, coyote. Date on small rodents may be outthed except for															
(1)	(2)				(3)					(4)					(5)
Species	Density	the real	SUL	Remo	vals	.eme.	umon 1	DO JOS DI	sposi	tion	of Fur	ES:	LOSI	S	Total
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North	is Jordan. "Hat al	use bive	and E yel	Taed.	sta P	a all	nie o	Northea	-		Refuge		Donated	Destroyed	Popula-
Win at a	Cover Types & Total	Acres	Bul	Fur Harvest	Predator Control	For Re- stocking	For Research	an Recen	Bert	0	L Re Shi	0 0			tion
Common Name	Acreage of Habitat	Per Animal	Hunting	ur	Predato: Control	pr] toc]	or ese:	Permit Number	Trappe Share	Refuge Share	Total Furs	Refuge Income	Furs	Furs	
Official a	more Carriers of the	AIIIIIIAI	H	區田	A O	Ri O	E E	MUIDAI.	N H	N H	н́ц	R H	Ē	E4	(a)
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Porcupine	9000 acres	18	terte	a orf	is ne	e de a	t ty ta	s. Dans	maber inform		A. C.				500
Skunk Otter	5000 acres 9000 acres	50 36 0	ed.f.	TON	0.40	o ai	ACTOS	lo redm	m ada						100 25
Mink	9000 acres	120	a 1964	seger nd n	6 09 1 0000	LOG DI	on ne	ijsanoin po lo se	t atria ta adà	- 1					75
Grey Squirrel Red Squirrel	9000 acres 9000 acres	120	long	08 34	ia dui	nois	arro'i	ri beris	b edt						75 1500
Chip munk	5000 acres	25	bontor	ind he	ialqa ic sai	CITUST		rge rae. spoorbre	omaza 6 here.						200
Bob cat	5000 acres 5000 acres	25 714	loor	7 8	2	Sort	drieme	re Manag	MILDI P						200
Weasel	5000 äcres	50	messo 8 Bau	o Lsi baar	coe i - borli	IO DE!	be bay	bEuoda :	ieđilu Lemas						100
Red For Snowshbe Hare	5000 acres 5000 acres	25 17	12	1 10		. mine	r. Rem	has bod	othni	in a star					40 300
Flying Squirrel	5000 acres	25	us rés	ae 11	betr -	edmin		t edd od	io thal			LES	TENT		200
Woodchuck	5000 aores	50	e.Cay	olus-r	VOIA 1	oda i	ALB	us year.	utvørse						100
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INSTRUCTIONS

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.)

> 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. "List of North American Recent Mammals" by G. S. Miller, Jr., a very good reference, is now out of print, although a revision is scheduled for publication in the near future.)

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, 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)

Popula-

190

100

775

200

0.8

COL

3625

(1)

(2)

SPECIES:

DENSITY:

Shr bbed

Indicate the total number under each category removed since April 30 of the previous year. Also show any removals not falling under heading listed.

(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 and the botal income to the refuge by species, including share-trapped furs and furs taken by Service personnel. Total number of pelts of each species destroyed because of unprimness or damaged condition, and furs donated to institutions or other agencies should be shown in the column provided.

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

REMARKSI

Indicate i antory method(s) used, size of ple area(s), introductions, and any other timent information not specifi by requested.

FORM NR-L

Form No. 3-1570

	Moes chort Refuge	QUARTERLY	GRAIN RI	EPORT Jan	April,	1952	
Station			Period				14.4.2

This report should cover all grain received, or disposed of, during the quarterly periods ending January 31, April 30, July 31, and October 30. Reports in duplicate, clipped to, but not bound as a part of, the quarterly narrative report, should reach the Regional Office by the 10th of the month following the close of the period covered by the report. The Regional Director, after approval, will forward the original to Washington.

Report all grain in bushels. For the purpose of this report the following approximate weights of grain shall be considered equivalent to a bushel: Corn (shelled)--55 lbs., Corn (ear)--70 lbs., Wheat--60 lbs., Barley--50 lbs., Rye--55 lbs., Oats--30 lbs., and Mixed--50 lbs. In computing volume of granaries, multiply the cubic contents (cu. ft.) by 0.8 bushels. Report all grain received during period from all sources, such as transfer, share cropping, or harvest from feed patches.

						On Hand Proposed		d Use		
Variety	Beginning of Period	Period	Trans- ferred	Seeded	Fed	Total		Seed	Feed	Surplus
Corn	110	10					160		700	
Wheat		AL S				6				
Barley										
Rye										
Oats		2.02* 2*00								
Mixed	1	ateria Neo 168,	latige.	peral q						
Soy Bea				18.99933						
BUOMMO	-	20 DECLODIN	7				C. C. C.	10		
Doup	V Noole OC	C Gonald To	8-1' 9	anne, b	7348	5.9×				

1. Indicate shipping or collection points

HOOL MOTOR BOOM

2. Grain is stored at

3. Remarks

Approved by:

Submitted by:

Regional Director

Signature and Title

Octo (Date, 1940.

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NOTICE

The Fish and Wildlife Service has surplus to its needs the following equipment and/or property, which is located at Bombay Hook CCC Camp, FWS-1, Smyrna, Delaware.

to an en

Amte	Description	Condition
16	Batteries, 6 volt, 3 cell	Worn out
67	Batteries, large, heavy duty Tires, 32 x 6	
2 28	Tires, 7.00 x 20 Tubes, inner, misc. sizes	H H H H

all grain received during poried from all sources, show as transfer, share the., Sycamp5 lbs., Ontra-30 lbs., and Mixedar 50 lbs. In composing volume of granneres, multiply the cubic contants (cus ft.) by 0.8 bushels. Nepert Corn (shellrd) -- 55 thes, Corn (our) -- 70 lbst, Sheat--60 lbst, Barley--53 Septre all grain in bushale. For the purpose of this report the following appreximent weight of grain and a considered equivalent to a bushali

quarterly periods anding January 51, April 30, July 31, and October 30. Separts in deplicate, ellipsed to, but not bound as a perior, the puert

bandod soverud by the report, the Regional Total Price for All Items

and the second

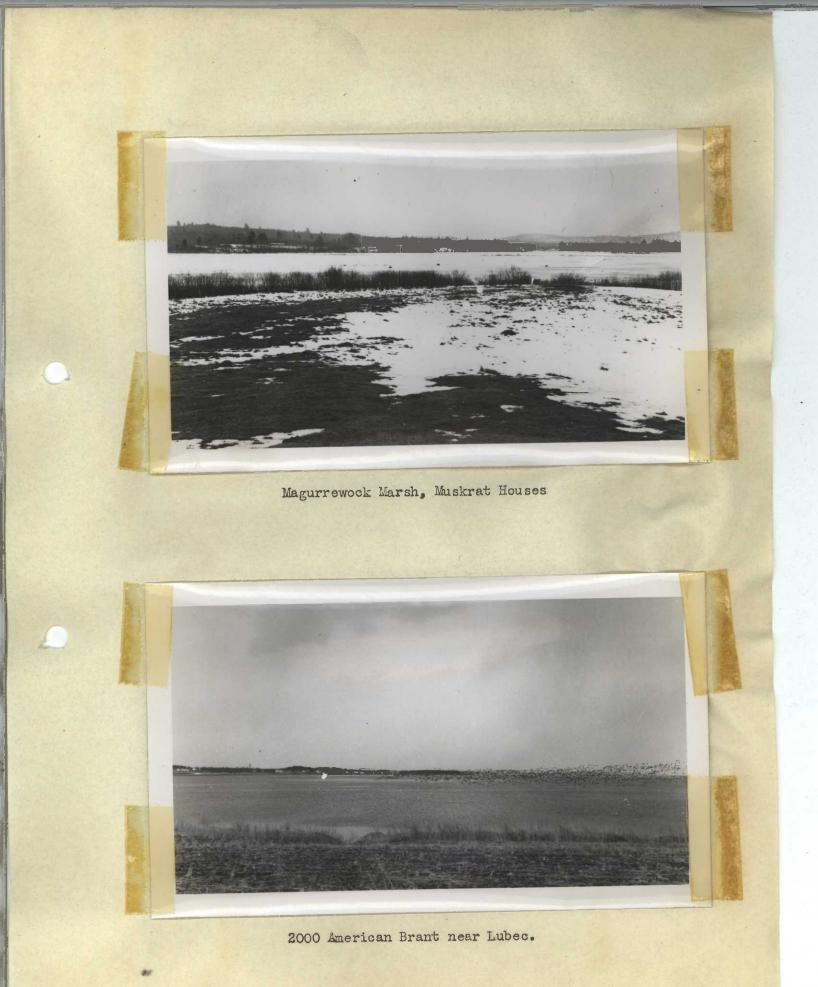
S. Orein is stored at

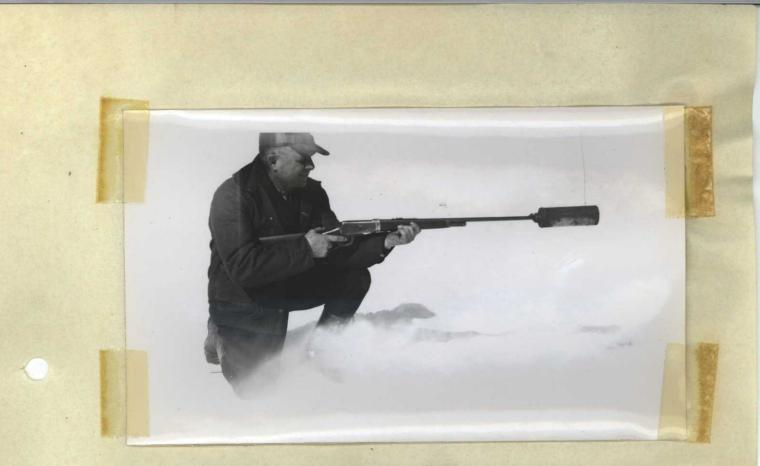


Service Building, Radio Tower in Rear.



South Trail prior to Big Snow.





Silencer for 30-30 Rifle, Lost by Poacher.



18 Bobcat Killed by State Wardens in County.



Upstream side of Nat Smith Spillway and Tital Floodgate



Fuelwood and Pulpwood Sales.

1



Lone Beaver House in Hobart Bog.



Artificial Clearing Regularly Used by Woodcock.