

BRANCH OF WILDLIFE REFUGES NARRATIVE REPORTS

MR. SALYER _____

MISS LAUR _____

MR. GRIFFITH _____

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MR. DUMONT _____

Land Management

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MR. HOLBY _____

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MR. STILES _____

MR. KULICH _____

Stenographers

Jim 6/20

REFUGE LACREEK

PERIOD JANUARY-APRIL 1957

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LACREEK NATIONAL WILDLIFE REFUGE

NARRATIVE REPORT

JANUARY, FEBRUARY, MARCH AND APRIL, 1957

I. GENERAL

A. Weather Conditions

The weather exhibited the usual extremes of the winter-spring season on the southwestern Dakota high prairies. Temperatures ranged from a ten-year low of -25 in January to a high of 70 in April. The January weather may be described as extremely cold and dry. The period February 1, to March 14, was unusually warm and dry, with temperatures ranging up to the sixties occasionally, and drouth conditions threatening. Then from mid-March to mid-April, a continuous series of snowstorms or near blizzards turned the countryside into a quagmire, resulting in the latest, coldest, and wettest, spring season in a decade.

Spring grain seeding is just getting under way the last two days of April, the latest we recall seeing farmers enter the fields here.

Following is a summary of weather conditions for the reporting period.

<u>Month</u>	<u>Precipitation</u>		<u>Snow</u>	<u>Max. Temp.</u>	<u>Min. Temp.</u>	
	(rain or melted snow)					
January	.....	.18	.....	est. 7"	..... 54	-25
February	.....	.15	.....	" 3"	..... 61	-10
March	.....	1.05	.....	" 18"	..... 60	- 3
April	.....	2.35	.....	" 24"	..... 70	10
Total		<u>3.73</u>		<u>est. 52"</u>	<u>70</u>	Extremes <u>-25</u>

B. Water Conditions

All four of the main pools, 7-8-9-and-10, were filled and overflowing spillways by the first of the year. Smaller units were raised to the desired levels by mid-April. Despite the heavy precipitation of March and April, runoff was not extremely heavy as much of the moisture soaked into the soil. Some surplus water was released through the 4 main spillways during April, and sections of the dikes took some minor cutting due to lashing by high winds. Ice went out of the main pools on March 10th, only to reform and persist until April.

Following is a summary of water level readings at the four main pools as of the close of the reporting period for the past two seasons;

<u>Pool No.</u>	<u>Level, April 30, 1956</u>	<u>Level, April 30, 1957</u>
7	7;14	7;20
8	10;37	10;50
9	10;38	10;58
10	13;10	13;30

The Little White River pool has been raised to a level approximately one foot below spillway elevation following extensive dike repairs last fall. It is proposed to initiate some experimental stocking of this unit in cooperation with the State and F.W.S. Fisheries divisions to attempt reestablishment of a sports fisheries area for local residents.

C. Fires

No fires occurred during the reporting period.

II. WILDLIFE

A. Migratory Birds

1. Populations and Behavior

a. Waterfowl

The Waterfowl flight was definitely influenced by the curious weather pattern, with mild summerlike temperatures prevalent in February, followed by the storms of late March and April. The flocks were driven to and fro in confusion as the birds alternately advanced and retreated with the late snowstorms and mild periods.

The flight commenced as early as January 28, when 100 drake Pintails were observed near the dam of Pool No. 7 at the wintering pen for our captive geese.

General notes on the spring migration are as follows.

First migration noted - Pintails (100) January 28.

Canada Geese, Mallards noted migrating as early as February 13th, when 250 "honkers" appeared at the refuge and some early movement noted among Mallards.

Flight normal or near normal for Canada Geese, Mallards and Pintails. Light or scattered for other species. Overall flight smaller than in 1956 due to late arrival of teal and scattering of other species out in the snow water pools or potholes filled by the heavy spring precipitation.

Canada Goose flight was spectacular again, with many local residents apparently thinking the flight to be the largest ever. Smaller numbers were concentrated at the refuge, since the early mild period in February and early March caused the birds to scatter out more extensively over the countryside. It is possible that the overall numbers were as large, considering flocks on or in the vicinity of the refuge.

Following is a summary of the goose migration;

First Migration	February 13, 1957	250 birds
Buildup	February 17, 1957	5,000 birds
Peak Concentration	March 3-4, 1957	30,000 birds possibly larger concentration if all scattered flocks in vicinity counted.
Main flight departed	March 8, 1957	10,000 birds remaining

Last observed as Migrants - week of April 14-20, 1957 100 birds.

Following is a summary of the buildup of the Lacreek Canada Goose spring concentration since 1948:

<u>Year</u>	<u>Peak Numbers</u>
1948 - - - - -	5,000
1949 - - - - -	10,000
1950 - - - - -	10,000
1951 - - - - -	12,000
1952 - - - - -	20,000
1953 - - - - -	35,000
1954 - - - - -	40,000 (plus)
1955 - - - - -	40,000 (plus)
1956 - - - - -	40,000 (plus)
1957 - - - - -	* 35,000 (plus)

* As indicated previously, this year's concentration at the refuge appeared somewhat smaller due to scattering of the flocks during the mild weather in February and early March, with early arriving flocks pushing on to loiter on the prairie to the north. The total numbers of birds moving through may have equaled that of earlier years, some local residents asserting they had observed more birds than in previous seasons.

Following is a summary of the overall waterfowl flight for the 1956 and 1957 seasons;

Species	Arrival Date (1956) (1957)		Peak Concentration (1956) and Dates (1957)		Remarks
Canada Goose	2/22 (200)	2/13 (250)	3/7-17 (40,000 plus)	3/3-4 (35,000 plus)	Concentration somewhat more scattered than in 1956 flight.
Mallard	----	2/13	3/11-17 (20,000)	2/24-3/9 (20,000)	Migration similar to 1956 in overall numbers.
Gadwall	3/22	3/21	4/7-21 (5,000)	3/24-4/15 (5,000)	Migration more retarded, scattered than in 1956.
Pintail	2/21	2/28	3/18-24 (8,000)	3/31-4/6 (12,000)	Flight more scattered with advance and retarded to form several peaks.
Baldpate	week of 3/18	week of 3/10-16	4/1-20 (500)	3/24-30 (500)	Small, scattered flight.
G.W. Teal	3/6	week of 3/3-9	3/25-4/7 (2,000)	3/31-4/6 (3,000)	Scattered flight small numbers.
B.W. Teal	4/4	4/22	4/17-23 (5,000)	4/25-30 (5,000)	Flight unusually late
Shoveller	3/20	----	4/15-23 (5,000)	4/14-20 (5,000)	Small scattered flight as in 1956.
Redhead	3/2	2/17	3/18-4/7 (6,000)	3/31-4/13 (2,000)	Considerably smaller flight this year.
Canvasback	3/6	week of 3/3-9	3/18-31 (5,000)	3/31-4/13 (500)	Very small scattered flight.
Lesser Seaup	3/6	3/21	4/1-7 (10,000)	4/7-15 (8,000)	Flight smaller than in 1956 season.
Goldeneye	wintered	wintered	3/4-24 (100)	1/13-26 (350)	Winters in small numbers at refuge.
Bufflehead	3/7	week of 3/3-9	4/1-7 (1,000)	2/31-4/13 (500)	Only observed in small numbers.
Ruddy Duck					No data.

B. Other Water Birds

The extremely late, cold spring season had appreciably retarded the spring migration of ~~other~~ marsh birds to April 30, the date this report was written.

No Grebes had been observed to date, an unusual migrational phenomena for these birds, which invariably appear in April during an average season

White Pelicans were later than usual, appearing from April 11, on.

Double-crested Cormorants returned during early April and appear to be more numerous this season.

Great Blue Herons returned on April 11, nearly two weeks later than usual.

Black-crowned Night Herons returned on April 23, a similarly late appearance.

The American Bittern returned on April 28.

The Sandhill Crane migration started on April 9 and was at its height on April 11, when some 5,000 birds stopped at the refuge. The Sandhill Cranes appear to concentrate on the Platte River in February and March and invariably move through the Lacreek Refuge area about April 10 regularly, regardless of weather conditions.

C. Shore Birds

The shore bird migration was almost nil up to April 30th except for the Killdeer, Long-billed Curlew, and a few Willets. We heard the call of a solitary Greater Yellowlegs on the evening of April 26 over the audio frequency amplifier system installed by the Air Force G.O.C. for plane detection.

The Long-billed Curlew arrival date was April 1; Willets returned April 23rd.

D. Other Birds

Other migrational notes are as follows; all are first migration dates:

<u>Species</u>	<u>Date of Arrival</u>
Ring-billed Gull	March 20,
Forsters Tern	April 26,
Barn Swallow	April 28,
Myrtle Warbler	April 25,
Western Robin	wintered
Eastern Meadowlark	March 15,

<u>Species</u>	<u>Date of Arrival</u>
Redwing	February 26,
Song Sparrow	April 10,
Junco, Oregon	April 10,

The late cold spring has retarded migration considerably, and it is probable that many birds are lingering in the southern plains area pending permanent clearing of the weather in this upper plains region.

2. Food and Cover

Conditions were good for both wintering game and non-game species. No appreciable amounts of snow fell until late March and early April, and temperatures accompanying these spring storms were not unduly severe.

B. Upland Game Birds

1. Populations and Behavior

Ring-necked Pheasants survived the winter in excellent condition, with no noticeable losses.

Sharp-tailed Grouse are at the low point of a cycle, and very few are noted in the area. Our main nesting flock, located in the rattle-snake hill upland section of the refuge, had their booming ground (located just outside our boundary fence) disrupted by agricultural operations. Large tracts of virgin prairie adjoining the refuge on the west have been acquired by private interests and put under the plow the past year. The booming birds have moved to a new grounds on the refuge, but the flock appears reduced to a small remnant at present.

2. Food and Cover

Selected areas of wintering cover are maintained for upland game birds adjacent to grain or corn. Our 1956 farming operations were disrupted by hail and drouth, but late weed growth forming on our farming units provided a good source of winter food.

C. Big Game Animals

1. Populations and Behavior

Small herds of Mule Deer and a few White-tails continue to frequent the refuge area. The terrain and cover of this prairie refuge are not primarily adapted to use as deer range, but some numbers of the animals do utilize the area.

2. Food and Cover

Two wilderness areas totalling about 800 acres are maintained on the refuge for wintering pheasants and deer.

D. Fur Animals, Predators, Rodents, and other Mammals.

Muskrat populations have increased from last year's low. Nearly 1,300 of the animals were secured by trappers this winter.

Mink have been more numerous, with the most sizeable number in years secured by trapping permittees.

Skunk are present in the lowest number in some time, according to Predator Agent Bill Pullins, who is initiating a survey of predators and control project to extent required. We have conducted a selective control project the past two seasons on skunk with beneficial results.

Raccoon population considered at 80% lower level than prior to 1955 initiated control project.

Beaver becoming more numerous annually despite control. Considerable damage caused to tree growth in recent years.

Weasel scattered individuals present at area. Both *Mistela longicanda* and *rixosa* present.

E. Predacious Birds

Golden Eagle wintered in usual small numbers 5 to 6 birds loitering on the area throughout the season. The first returning specimen was observed October 10th; the last observation was that of a single bird April 29th.

One to two Bald Eagles were observed throughout the winter. usually these birds occur as stragglers only, but the bird was observed weekly through the past winter season.

The Prairie Falcon is an occasionally observed permanent resident in the territory. Nesting occurs mainly in the rough badlands territory to the north, but solitary stray birds are observed almost daily.

Horned Owls are present in scattered pairs in the bottomland thickets.

Magpies are common, permanent residents in the territory.

Scattered Red-tailed and Swainsown's Hawks have been observed through the latter part of April.

Short-eared Owl-solitary individual noted through the spring season.

Burrowing Owls present as stragglers or small colonies in deserted prairie dog towns.

Sparrow Hawks were numerous during the last few days of April, usual migration peak for this species.

F. Fish

No winter losses were noted among our fish populations.

Principal species are Yellow Perch, Large-mouth Bass, Suckers and Green Sunfish.

The pools still appear to be free of carp.

III. REFUGE DEVELOPMENT & MAINTENANCE

A. Physical Development.

1. Excavated, hauled and placed an estimated 600 yards fill on dikes 3, 7, and 9.
2. Serviced and repaired equipment as required, including complete overhaul of Dodge Pickup motor, Replacement of motor in Jeep Pickup.
3. Complete renovation of refuge office, including removal of heating cubical, tiling of floor, two coat paint job.
4. Planted 30 ten-twelve foot trees as part of cover development program.
5. Constructed new basement room in quarters No. 3
6. Repaired fencing at Bear Butte Refuge.
7. Repaired phone line as required.
8. Gravelled courtyard of headquarters area with fresh gravel application of 90 tons
9. Removed snow from refuge road to limit deterioration of grade.
10. Made grain transfers from Sand Lake and Union Slough Refuges for feeding captive geese.

B. Plantings

1. Upland Herbaceous plants - Two clump plantings of Chinese Elm and honeysuckle were made near the headquarters gateway as a combined cover development and landscaping project.
2. Cultivated Crops - approximately 500 acres of Barley and Corn will be planted on a cooperative farming bases this season. Due to the unusually late season, no planting had been undertaken up to May first.

A. Grazing

Grazing activities under the fall-winter permit system were terminated as of March 1st. An experimental grazing project on the margin of Units 2 and 3 will be continued following the annual breeding pair census to obtain further data on grazing-nesting relationships.

B. Fur Harvest

The annual fur harvest resulted in the following take. Muskrat were definitely up in numbers, resulting in a considerable higher catch than for some years past.

<u>Species</u>	<u>Trappers Share</u>	<u>Proceeds</u>	<u>Refuge Share</u>	<u>Proceeds</u>
Muskrat (1291)	636	\$ 378.40	655	
Mink (35)	18	sales data incomplete	17	
Skunk (40)	40	destroyed		
Weasel (2)	2	1 sold for \$1.00 1 destroyed		
Raccoon (16)	16	6 unsold 3 sold for \$ 6.00 5 sold for \$10.50		
Beaver (13)	7	1 sold for \$ 1.75 6 sold for \$17.00	6	
Badger (5)	5	\$ 20.10		

Sales records of the fur auction Co. have not been received up to close of the reporting period for Refuge furs.

Six coyotes were taken by P.R.C. Trapper, Wm. Pullins, by getters during the winter season.

V. FIELD INVESTIGATION

Straggling returns continue to come in on the experimental Redhead ducks transferred here in the summer of 1954. The last two reports come from Salt Lake, Utah, and Sonora Mexico. A total of 54 returns have now been received from these 305 birds transferred from the Delta Station.

All banding records for the station were summarized in table form by species and locations. A total of 674 birds had been recovered representing 14 species, taken in 40 localities, including Mexico, British Honduras, and the West Indies. A copy of the banding summary is inserted.

The official bird list for the Lacreek Refuge was completed and published during the reporting period. 207 regularly listed species and 6 rareties are included in this list. The twenty years of refuge records probably comprise one of the most complete records of local avifauna for the Pine Ridge Reservation region of South Dakota. A copy of the officially published list is inserted.

The Skunk-Raccoon control program will be covered under a separate report in the near future, as the 1957 work is incomplete as yet.

VI. PUBLIC RELATIONS

A. Recreational Uses

The winter ice fishing season and some early spring use of the Dike 10 zone constituted chief recreational use during the reporting period.

Ice fishing success was very poor this season, with very few fish taken. However, the bass are now hitting in the small dike 10 fishing zone above the main outlet dam, with numerous 2-5 lb. specimens taken.

B. Refuge Visitors

A list of official visitors follows;

<u>Name</u>	<u>Organization</u>	<u>Purpose of Visit</u>
H. Haecker	F.W.S.- PRC	Courtesy calls
Wm. Pullins	F.W.S. -PRC	Predator control
Geo. W. Wiseman	F.W.S. -Val. Refuge	Seed Harvest
Richard Rodgers	F.W.S. -Crescent Lake	Courtesy call
Mr. Rodgers, Sr.	F.W.S.- Turnbull	Courtesy call
S/Sgt Dean Schultz	USAF - G.O.C.	Inspect G.O.C. Post
S/Sgt Hearnberger	USAF - G.O.C.	Inspect G.O.C. Post
James A. Dawd	S.D. Game Commissioner	Courtesy call
Tony Engelbert	S.D. Game Warden	accompanying commissioner
Maurice Anderson	State Game Technician	Courtesy call

Occasional unrecorded parties of civilian visitors also called to look at the captive goose flocks, waterfowl concentrations, etc. Adverse road and weather conditions in March and April limited visiting considerably. Dr. and Mrs Whitney of Rapid City Bird Club, visited the area in February to view the waterfowl and eagles and help plan the program for the annual SDOU program.

C. Refuge Participation

Our principal public relations activity this period has been the organizing of the annual meeting of the State Ornithologists Union scheduled at the refuge on May 18 and 19, 1957; copies of the program and general schedule are attached. This meeting will bring a number of the leading bird students and conservationists of South Dakota to this area and familiarize the visitors with refuge operations.

Refuge personnel have also participated in the G.O.C. program, maintaining an aircraft spotting post at the station and telephoning in all passing aircraft to the Filter Center at Sioux Falls, South Dakota.

The monthly meeting of the local Rod and Gun Club have been attended by refuge personnel and films shown at the meetings. Talks were given on items of interest concerning the refuge at these gatherings.

Families of personnel have been active in local extension club work and recently organized a drivers safety meeting at the LaCreek Valley 4H Clubhouse, in cooperation with local representatives of the State Highway Department. Several films on safe tractor and auto operation were exhibited to an audience of local farm and ranch people. This meeting was held on April 26 and was enthusiastically endorsed by all who attended.

A cooperative arrangement was effected with the Rapid City Bird Club whereby our refuge banding returns will be plotted on maps for use in public exhibition and talks before schools, bird clubs, sportsmens groups etc.

D. Hunting (Inactive this period)

E. Fishing

The winter ice fishing was unsuccessful this season, with very few fish taken. The bass and perch were present, but refused to cooperate with the fishermen.

As the spring fishing season opened in April, bass and a few perch have started hitting at the Dike 10 public fishing zone, with limited catches by many fishermen.

F. Violations

Some patrol work was necessary to check rabbit hunters during the winter months. A party of hunters was picked up near our boundary by the state highway patrol and warden and fined in local court. This effectively stopped the illegal night hunting nuisance in the territory.

MBTA patrol work was done to the extent permitted by road conditions to watch the spring goose flight. A rumor originated among residents that the flocks were being watched by Federal Wardens in planes after a low flying plane traversed the countryside. This acted as a deterrent to scattered sniping, and little illegal activity was heard of this spring.

VII. OTHER ITEMS

Refuge personnel were awarded certificates and pins for 250 hours duty in plane spotting service for the G.O.C. at a meeting of Bennett County Observation Posts held at the refuge in February. The Air Force representatives conducted a training meet and awards ceremony at this time for all local posts in the county. The Service building

garage compartment was utilized as an "auditorium" for the event.

The Refuge office, which was limited for space by an obsolete heating cubicle, was remodelled and renovated. Separate office space was arranged, and the room now affords an attractive businesslike arrangement, with adequate space for small public meetings. This improvement was recommended by the Service during the last station inspection.

The Little White River Unit has been filled to capacity and is already receiving some use by local boating enthusiasts. Plans are under way for stocking of this pool during the coming season to attempt reestablishment of sports fisheries facilities for local residents. This unit originally served as a recreational area, but fisheries facilities were lost by siltation and carp infestation. An eradication project was undertaken last fall to remove rough fish, and the area is now ready for renovation. It is hoped that the area can be successfully renovated and recreational use shifted to this zone by next season.

Respectfully submitted:

Kenneth Krumm
(name)

Refuge Manager
(title)

May 6, 1957
(date)

Approved:

B. B. B. B.
(Signature)

5/10/57

VIII. SPECIAL INFORMATION SECTION

A. Status of Captive Goose Flock

A second flock of 41 immature Canadas was brought to the Refuge from Swan Lake late in 1956.

The birds were wintered in a holding pen below dam No. 8. Two specimens were lost during the winter due to unknown causes, leaving 38 birds. These are scheduled for release in early 1959.

The old flock of mixed adult - immature birds held here two seasons was released on the lake this spring and totals 65 birds at last count. Some of the birds have scattered out in the marshes, and part of the flock maintains a closely associated raft or formation. Evidence of nesting will be sought by boat inspection of the marshes in the near future after the flock has settled down a little more.

B. Browse Preference

Our migrant goose flock exhibit preference for winter wheat during spring migration. Very little alfalfa feeding was noted in spring, as the flight moves through in advance of the greening up of the plant to stage preferred for browse.

Birds of Prey

This section covered under a section in main body of report.

SUMMARY OF BAND RECOVERIES
ALL SPECIES 1936 - 1956

Territory	White Pelican	D-c Cormorant	Mallard	Gadwall	Pintail	G-w Teal	B-w Teal	Baldpate	Shoveller	Redhead	Canvas back	Lesser Scaup	Buffle head	Coot	Total Returns
United States															
Arkansas			25												25
California			1		1							1			3
Colorado			48		1					1					50
Florida			1		1					1					3
Georgia										1					1
Illinois			2												2
Indiana										1					1
Iowa			6		1			1							8
Kansas	1		20		1		2			7					31
Kentucky					1										1
Louisiana			26	1	4	1	1			1		2			36
Maryland										2					2
Michigan			1												1
Minnesota			6		4		1			3					14
Mississippi			2												2
Missouri			5												5
Montana			6							1					7
Nebraska	1		144	1	1					10		2			159
New Jersey										1					1
New Mexico			3	1				1		1					6
No. Dakota			12		1					5		1			19
Ohio			1												1
Oklahoma	1		26		1		1			5			1		35
So. Dakota			35	1	4		2	1	1	6		2			52
Tennessee			4			1									5
Texas	2	2	59		9	1		2		36	1	1		1	114
Utah			1		1					1					3
Virginia										1					1
Washington			1												1
Wisconsin			2		1										3
Wyoming			8							2					10
Canadian Provinces															
Alberta			26		1					2					29
B. Columbia					1										1
Mackenzie			1												1
Manitoba			7		2		1			1					11

Continued: *CONTINUED*

CONTINUATION OF
SUMMARY OF BAND RECOVERIES
ALL SPECIES 1936 - 1956

Territory	White Pelican	D-c Cormorant	Mallard	Gadwall	Pintail	G-w Teal	B-w Teal	Baldpate	Shoveller	Redhead	Canvas back	Lesser Scaup	Buffle head	Coot	Total Returns
Canadian Provinces	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Ontario	-----	-----	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1
Saskatchewan	-:-----	-:-----	16	1	-----	-----	-----	-----	-----	1	-----	-----	-----	-----	18
MEXICO	-----	3	-----	-----	5	-----	-----	-----	-----	1	-----	-----	-----	-----	9
B. HONDURAS	-----	-----	-----	-----	-----	-----	1	-----	-----	-----	-----	-----	-----	-----	1
JAMAICA, BWI	-----	-----	-----	-----	-----	-----	1	-----	-----	-----	-----	-----	-----	-----	1
40 TOTALS	-- 8	2	496	5	41	3	10	5	1	91	1	9	1	1	674

TOTAL of Band Recoveries 674

Recoveries from Species 14

Recoveries from Territorys 40

SUMMARY OF BAND RECOVERIES 1936 - 1956

UNITED STATES

Totals

			(37-8)	(38-6)	(39-2)	(40-2)	(41-2)	(42-1)	Total
Arkansas	(25)	Mallard	(37-8)	(38-6)	(39-2)	(40-2)	(41-2)	(42-1)	25
			(44-1)	(52-3)	- - - - -	- - - - -	- - - - -	- - - - -	
California	(3)	Mallard	(54-1)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	1
		Pintail	(55-1)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	1
		Lesser Scaup	(56-1)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	-1
Colorado	(50)	Mallard	(37-3)	(38-7)	(39-7)	(40-9)	(41-3)	(42-5)	
			(43-6)	(44-4)	(51-1)	(52-3)	- - - - -	- - - - -	48
		Redhead	(54-1)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	1
		Pintail	(42-1)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	-1
Florida	(3)	Mallard	(39-1)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	-1
		Redhead	(54-1)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	1
		Pintail	(52-1)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	1
Georgia	(1)	Redhead	(54-1)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	1
Illinois	(2)	Mallard	(39-1)	(54-1)	- - - - -	- - - - -	- - - - -	- - - - -	2
Indiana	(1)	Redhead	(52-1)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	1
Iowa	(8)	Mallard	(37-2)	(38-1)	(39-2)	(41-1)	- - - - -	- - - - -	6
		Baldpate	(38-1)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	-1
		Pintail	(54-1)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	1
Kansas	(31)	Mallard	(37-2)	(38-5)	(39-1)	(40-3)	(41-1)	(42-3)	
			(44-1)	(51-1)	(53-1)	(54-1)	(55-1)	- - - - -	-20
		Redhead	(39-1)	(40-1)	(43-1)	(51-1)	(52-1)	(54-2)	7
		Pintail	(41-1)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	-1
		B.W/Teal	(38-1)	(41-1)	- - - - -	- - - - -	- - - - -	- - - - -	2
		W. Pelican	(53-1)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	1
Kentucky	(1)	Pintail	(47-1)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	1
Louisiana	(36)	Mallard	(37-5)	(38-5)	(39-5)	(40-4)	(41-1)	(44-1)(45-1)	
			(50-1)	(52-1)	(53-1)	(55-1)	- - - - -	- - - - -	
		Redhead	(55-1)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	1
		G.W/Teal	(56-1)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	1
		Pintail	(38-3)	(40-1)	- - - - -	- - - - -	- - - - -	- - - - -	4
		B.W/Teal	(38-1)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	-1
		Gadwall	(38-1)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	1
		Lesser Scaup	(52-1)	(53-1)	- - - - -	- - - - -	- - - - -	- - - - -	-2
Maryland	(2)	Redhead	(51-1)	(55-1)	- - - - -	- - - - -	- - - - -	- - - - -	2
Michigan	(1)	Mallard	(39-1)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	1
Minnesota	(14)	Mallard	(38-2)	(39-1)	(40-1)	(51-1)	(53-1)	- - - - -	6
		Redhead	(39-1)	(55-1)	(56-1)	- - - - -	- - - - -	- - - - -	3
		Pintail	(38-3)	(39-1)	- - - - -	- - - - -	- - - - -	- - - - -	4
		B. W/Teal	(38-1)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	1
Mississippi	(2)	Mallard	(38-1)	(53-1)	- - - - -	- - - - -	- - - - -	- - - - -	2
Missouri	(5)	Mallard	(36-1)	(37-1)	(38-1)	(40-1)	(41-1)	- - - - -	5
Montana	(7)	Mallard	(38-3)	(41-1)	(43-1)	(50-1)	- - - - -	- - - - -	6
		Redhead	(40-1)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	1

Nebraska	(159)	Mallard	(36-1)(37-20)(38-36)(39-15)(40-30)(41-6)		
			(42-6)(43-4)(44-11)(46-1)(52-4)(53-5)		
			(54-2)(55-3)		144
		Redhead	(51-2)(54-7)(55-1)		10
		Pintail	(38-1)		1
		Gadwall	(38-1)		1
		Lesser Scaup	(55-2)		2
		W. Pelican	(56-1)		1
New Jersey	(1)	Redhead	(55-1)		1
New Mexico	(6)	Mallard	(39-1)(41-1)(45-1)		3
		Redhead	(51-1)		1
		Baldpate	(55-1)		1
		Gadwall	(38-1)		1
North Dakota	(19)	Mallard	(39-2)(40-2)(41-2)(42-1)(43-1)(48-1)(54-2)		
			(56-1)		12
		Redhead	(52-1)(54-1)(55-1)(56-2)		5
		Pintail	(39-1)		1
		Lesser Scaup	(40-1)		1
Ohio	(1)	Mallard	(41-1)		1
Oklahoma	(35)	Mallard	(37-3)(38-6)(39-3)(40-8)(41-3)(43-1)(52-2)		26
		Redhead	(40-1)(54-2)(55-1)(56-1)		5
		Pintail	(40-1)		1
		B. W/Teal	(38-1)		1
		Bufflehead	(42-1)		1
		W. Pelican	(56-1)		1
South Dakota	(52)	Mallard	(37-1)(38-12)(39-2)(40-2)(41-4)(42-6)(43-1)		
			(46-1)(49-1)(53-2)(54-1)(55-1)(56-1)		35
		Redhead	(51-2)(54-3)(55-1)		6
		Baldpate	(38-1)		1
		Pintail	(38-3)(40-1)		4
		B.W/Teal	(37-2)		2
		Gadwall	(38-1)		1
		Lesser Scaup		(40-1)(55-1)	2
		Shoveller	(47-1)		
Tennessee	(5)	Mallard	(39-2)(52-1)(53-1)		4
		G. W/Teal	(44-1)		1
Texas	(114)	Mallard	(37-11)(38-13)(39-7)(40-14)(41-5)(42-4)		
			(43-2)(52-3)		59
		Redhead	(40-1)(42-2)(52-2)(53-3)(54-24)(55-2)(56-2)		36
		Pintail	(37-2)(38-2)(39-1)(40-3)(43-1)		9
		G.W/Teal	(44-1)		1
		Canvas-Back	(37-1)		1
		Baldpate	(38-1)(55-1)		2
		Lesser Scaup	(55-1)		1
		Coot	(42-1)		1
		W. Pelican	(56-2)		2
		D-e Cormorant	(53-2)		2
Utah	(3)	Mallard	(38-1)		1
		Redhead	(56-1)		1
		Pintail	(36-1)		1
Virginia	(1)	Redhead	(56-1)		1
Washington	(1)	Mallard	(40-1)		1
Wisconsin	(3)	Mallard	(38-1)(43-1)		2
		Pintail	(39-1)		1
Wyoming	(10)	Mallard	(37-1)(38-1)(40-2)(41-1)(43-2)(52-1)		8
		Redhead	(40-1)(41-1)		2

CANADIAN PROVINCES

Alberta	(29)	Mallard	(36-1)(37-2)(38-4)(39-3)(40-2)(41-1)	
			(42-3)(43-4)(44-2)(46-1)(47-1)(51-1)(55-1)	- -26
		Redhead	(50-1)(55-1)	- - - - - - - - - - -2
		Pintail	(41-1)	- - - - - - - - - - -1
B. Columbia	(1)	Pintail	(39-1)	- - - - - - - - - - -1
MacKenzie	(1)	Mallard	(40-1)	- - - - - - - - - - -1
Manitoba	(11)	Mallard	(38-2)(41-1)(42-1)(43-1)(45-1)(43-1)	- - - - 7
		Redhead	(54-1)	- - - - - - - - - - -1
		Pintail	(39-1)(50*1)	- - - - - - - - - - -2
		B.W/Teal	(39-1)	- - - - - - - - - - -1
Ontario	(1)	Mallard	(40-1)	- - - - - - - - - - -1
Saskatchewan	(18)	Mallard	(38-1)(39-2)(40-2)(41-1)(43-1)(45-1)(46-3)	
			(51-2)(53-2)(54-1)	- - - - - - - - - - 16
		Redhead	(40-1)	- - - - - - - - - - -1
		Gadwall	(39-1)	- - - - - - - - - - -1
MEXICO	(9)	Redhead	(55-1)	- - - - - - - - - - -
		Pintail	(39-1)(40-2)(49-1)(55-1)	- - - - - - - - - - -
		W. Pelican	(54-2)(55-1)	- - - - - - - - - - 3
B. HONDURAS	(1)	B. W/Teal	(38-1)	- - - - - - - - - - -1
JAMAICA, BWI	(1)	B. W/Teal	(38-1)	- - - - - - - - - - -1

SUMMARY OF BAND RECOVERIES
1936 - 1956

WHITE PELICAN

UNITED STATES	YEAR																					Totals
	:1936:	1937:	1938:	1939:	1940:	1941:	1942:	1943:	1944:	1945:	1946:	1947:	1948:	1949:	1950:	1951:	1952:	1953:	1954:	1955:	1956:	
Kansas	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1
Nebraska	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	1
Oklahoma	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	1
Texas	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	---	2
MEXICO	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	1	---	---	3
Totals	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	2	1	4	8

DOUBLE-CRESTED CORMORANT

[illegible]

SUMMARY OF BAND RECOVERIES
1936 - 1956

MALLARDS

UNITED STATES	YEAR																					Totals
	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	
Arkansas	8	6	2	2	2	1	1									3						25
California																		1				1
Colorado	3	7	7	9	3	5	6	4							1	3						48
Florida	***		1																			1
Illinois			1															1				2
Iowa	2	1	2		1																	6
Kansas	2	5	1	3	1	3		1							1		1	1	1			20
Louisiana	5	5	5	4	1			1	1					1		1	1		1			26
Michigan			1																			1
Minnesota		2	1	1											1		1					6
Mississippi			1														1					2
Missouri	1	1	1		1	1																5
Montana			3			1		1							1							6
Nebraska	1	20	36	15	30	6	6	4	11		1						4	5	2	3		144
New Mexico				1		1				1												3
No. Dakota				2	2	2	1	1					1						2		1	12
Ohio						1																1
Oklahoma		3	6	3	8	3		1									2					26
So. Dakota		1	12	2	2	4	6	1			1			1				2	1	1	1	35
Tennessee				2													1	1				4
Texas		11	13	7	14	5	4	2									3					59
Utah			1																			1
Washington				1																		1
Wisconsin			1					1														2
Wyoming		1	1		2	1		2									1					8
CANADIAN PROVINCES																						
Alberta		1	2	4	3	2	1	3	4	2		1	1			1				1		26
Mackenzie					1																	1
Manitoba			2			1	1	1		1							1					7
Ontario					1																	1
Saskatchewan			1	2	2	1		1		1	3					2		2	1			16
30 Totals	3	59	108	58	85	36	30	25	20	4	6	1	1	1	2	6	18	15	9	7	2	496

GADWALL

[illegible]

SUMMARY OF BAND RECOVERIES
1936 - 1956

PIN TAILS

UNITED STATES	YEAR																				Totals	
	:1936:	1937:	1938:	1939:	1940:	1941:	1942:	1943:	1944:	1945:	1946:	1947:	1948:	1949:	1950:	1951:	1952:	1953:	1954:	1955:		1956:
California	---	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	1
Colorado	---	:	:	:	:	:	:	1	:	:	:	:	:	:	:	:	:	:	:	:	:	1
Florida	---	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	1	:	:	:	:	1
Iowa	---	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	1	:	:	1
Kansas	---	:	:	:	:	:	:	1	:	:	:	:	:	:	:	:	:	:	:	:	:	1
Kentucky	---	:	:	:	:	:	:	:	:	:	:	1	:	:	:	:	:	:	:	:	:	1
Louisiana	---	:	:	:	3	:	1	:	:	:	:	:	:	:	:	:	:	:	:	:	:	4
Minnesota	---	:	:	:	3	:	1	:	:	:	:	:	:	:	:	:	:	:	:	:	:	4
Nebraska	---	:	:	:	1	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	1
No. Dakota	---	:	:	:	:	1	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	1
Oklahoma	---	:	:	:	:	:	1	:	:	:	:	:	:	:	:	:	:	:	:	:	:	1
So. Dakota	---	:	:	:	:	3	:	1	:	:	:	:	:	:	:	:	:	:	:	:	:	4
Texas	---	:	:	:	2	:	2	:	1	:	3	:	:	:	1	:	:	:	:	:	:	9
Utah	---	:	1	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	1
Wisconsin	---	:	:	:	:	:	1	:	:	:	:	:	:	:	:	:	:	:	:	:	:	1
CANADIAN PROVINCES	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Alberta	---	:	:	:	:	:	:	:	1	:	:	:	:	:	:	:	:	:	:	:	:	1
B. Columbia	---	:	:	:	:	:	1	:	:	:	:	:	:	:	:	:	:	:	:	:	:	1
Manitoba	---	:	:	:	:	:	1	:	:	:	:	:	:	:	:	1	:	:	:	:	:	2
MEXICO	---	:	:	:	:	:	1	:	2	:	:	:	:	:	:	:	1	:	:	:	1	5
19 Totals	---	:	1	:	2	:	12	:	7	:	8	:	2	:	1	:	1	:	1	:	1	41

SUMMARY OF BAND RECOVERIES
1936 - 1956

GREEN-WINGED TEAL

UNITED STATES	YEAR																					Totals	
	:1936:	1937:	1938:	1939:	1940:	1941:	1942:	1943:	1944:	1945:	1946:	1947:	1948:	1949:	1950:	1951:	1952:	1953:	1954:	1955:	1956:		
Louisiana	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1	-----	1
Tennessee	-----	-----	-----	-----	-----	-----	-----	-----	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1
Texas	-----	-----	-----	-----	-----	-----	-----	-----	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1
3 Totals	-----	-----	-----	-----	-----	-----	-----	-----	2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1	-----	3

BLUE-WINGED TEAL

[illegible]

SUMMARY OF BAND RECOVERIES
1936 - 1956

BALDPATE

UNITED STATES	YEAR																					Total
	:1936:	1937:	1938:	1939:	1940:	1941:	1942:	1943:	1944:	1945:	1946:	1947:	1948:	1949:	1950:	1951:	1952:	1953:	1954:	1955:	1956:	
Iowa	:	:	:	1	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	1
New Mexico	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	1	0	1
So. Dakota	:	:	:	1	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	1
Texas	:	:	:	1	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	1	:	2
	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
4 Totals	:	:	:	3	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	2	:	5

SHOVELLER

[illegible]

SUMMARY OF BAND RECOVERIES
1936 - 1956

REDHEADS

UNITED STATES	YEAR																					Totals
	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	
Colorado																			1			1
Florida																			1			1
Georgia																			1			1
Indiana																	1					1
Kansas				1	1			1								1	1		2			7
Louisiana																			1			1
Maryland																1			1			2
Minnesota				1															1	1		3
Montana					1																	1
Nebraska																2			7	1		10
New Jersey																			1			1
New Mexico																1						1
No. Dakota																	1		1	1	2	5
Oklahoma					1														2	1	1	5
South Dakota																2			3	1		6
Texas					1		2										2	3	24	2	2	36
Utah																				1		1
Virginia																				1		1
Wyoming					1	1																2
CANADIAN PROVINCES																						
Alberta															1					1		2
Manitoba																			1			1
Saskatchewan					1																	1
MEXICO																				1		1
23 Totals				2	6	1	2	1							1	7	5	3	43	12	8	91

CANVAS-BACK

[illegible]

SUMMARY OF BAND RECOVERIES
1936 - 1956

LESSER SCAUP

UNITED STATES	YEAR																				Totals		
	:1936:	1937:	1938:	1939:	1940:	1941:	1942:	1943:	1944:	1945:	1946:	1947:	1948:	1949:	1950:	1951:	1952:	1953:	1954:	1955:		1956:	
California	1	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	1	1
Louisiana	1	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	1	1	:	:	:	:	2
Nebraska	1	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	2	:	:	2
No. Dakota	1	:	:	:	:	1	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	1
So. Dakota	1	:	:	:	:	1	:	:	:	:	:	:	:	:	:	:	:	:	:	1	:	:	2
Texas	1	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	1	:	:	1
6 Totals	1	:	:	:	:	2	:	:	:	:	:	:	:	:	:	:	1	1	:	:	4	1	9

BUFFLEHEAD

[illegible]

COOT

[illegible]

3-1750
Form NR-1
(Rev. March 1953)

W A T E R F O W L

REFUGE LaCreek National Wildlife Refuge

MONTHS OF January TO March, 19 57

(1) Species	(2) Weeks of reporting period									
	1	2	3	4	5	6	7	8	9	10
<u>Swans:</u>										
Whistling										
Trumpeter										
<u>Geese:</u>										
Canada	106	106	106	106	106	106	*250	5,000	15,000	30,000
Cackling							first noted			to 40,0
Brant							40-50 A.M.			00, first
White-fronted							250 by night		stragglers	half of
Snow										week
Blue										
Other										
<u>Ducks:</u>										
Mallard	9,000	9,000	9,000	9,000	9,000	12,000	10,000	15,000	20,000	29,000
Black										
Gadwall										
Baldpate										
Pintail										
Green-winged teal					* 100	200	300	500	1,000	5,000
Blue-winged teal					first noted					500
Cinnamon teal					2-28-57					
Shoveler										
Wood										
Redhead							3	100	100	100
Ring-necked										
Canvasback										50
Scaup										
Goldeneye	200	200	350	350	250	250	250	250	250	250
Bufflehead										100
Ruddy										
Other Am. Mergansers			150	150	250	250	250	300	2,000	2,000
<u>Coot:</u>										

3 -1750a

Cont. NR-1

(Rev. March 1953)

WATERFOWL
(Continuation Sheet)REFUGE Lacreek National Wildlife RefugeMONTHS OF March TO April, 1957

(1) Species	(2) Weeks of reporting period								(3) Estimated waterfowl days use	(4) Production Broods: Estimated seen : total
	11	12	13	14	15	16	17	18		
Swans:										
Whistling										
Trumpeter										
Geese:										
Canada	10,000	5,000	5,000	5,000	5,000	104	104		577,685	
Cackling										
Brant										
White-fronted										
Snow	stragglers								stragglers	
Blue										
Other										
Ducks:										
Mallard	10,000	10,000	10,000	8,000	8,000	3,000	2,000		1,221,100	
Black										
Gadwall		500	5,000	5,000	5,000	5,000	2,000		157,500	
Baldpate	100	200	500	1,000	500	500	500		23,000	
Pintail	8,000	10,000	10,000	12,000	10,000	5,000	500			
Green-winged teal	1,000	2,000	1,000	3,000	1,000	500	100		63,700	
Blue-winged teal							5,000		35,000	
Cinnamon teal										
Shoveler	500	500	500	1,000	2,000	5,000	2,000		80,500	
Wood										
Redhead	500	1,000	1,000	2,000	2,000	1,000	500		58,100	
Ring-necked										
Canvasback	100	100	100	500	500	50	50		10,150	
Scaup		1,000	1,000	3,000	8,000	6,000	1,000		140,000	
Goldeneye	250	250	250	100	50				22,500	
Bufflehead	250	250	250	500	500	100	100		14,350	
Ruddy										
Other Am. Mergansers	500	500	250	100					46,900	
Coot:						1,000				

(over)

	(5) Total Days Use	(6) Peak Number	(7) Total Production
Swans	- - - -	- - - -	- - - -
Geese	577,685	30,000 plus	
Ducks	1,872,800	37,500	
Coots	1,000	1,000	

SUMMARY

Principal feeding areas Pools 5-6-9-and 10

Principal nesting areas _____

Reported by Kenneth Kraus

INSTRUCTIONS (See Secs. 7531 through 7534, Wildlife Refuges Field Manual)

- (1) Species: 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) Weeks of Reporting Period: Estimated average refuge populations.
- (3) Estimated Waterfowl Days Use: Average weekly populations x number of days present for each species.
- (4) Production: Estimated number of young produced based on observations and actual counts on representative 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.
- (5) Total Days Use: A summary of data recorded under (3).
- (6) Peak Number: Maximum number of waterfowl present on refuge during any census of reporting period.
- (7) Total Production: A summary of data recorded under (4).

3-1751

Form NR-1A

(Nov. 1945)

MIGRATORY BIRDS
(other than waterfowl)Refuge Lacreek National Wildlife Refuge Months of January to April 1957

(1) Species	(2) First Seen		(3) Peak Numbers		(4) Last Seen		(5) Production			(6) Total
Common Name	Number	Date	Number	Date	Number	Date	Number Colonies	Total # Nests	Total Young	Estimated Number
I. <u>Water and Marsh Birds:</u>										
White Pelican	6	4/11	1,000	4/20	300	4/30				1,000
D.C. Cormorant			500	4/28-29	300	4/30				
Great Blue Heron	1	4/11	100	4/15-30						
B.C. Night Heron	1	4/23	200	4/29	summer resident					
Am. Bittern	1	4/28	only observation to date							
Sandhill Crane	5,000	4/9	5,800	4/11	200	4/13				
II. <u>Shorebirds, Gulls and Terns:</u>										
Killdeer	1	3/15	500	4/15	summer resident					
Willet	1	4/23	100	4/30	nesting birds					
L.B. Curlew	1	4/1	scattered birds present on area							
Greater Yellowlegs	1	4/26								
Avocet	1	4/30	only observation to date							
Ring-billed Gull	50	3/10								
Forster's Tern	1	4/26	500	4/30						

(over)

(1)	(2)	(3)	(4)	(5)	(6)
III. <u>Doves and Pigeons:</u> Mourning dove White-winged dove	1	4/23	50	4/30	flight retarded by weather conditions
IV. <u>Predaceous Birds:</u> Golden eagle Duck Hawk Prairie Falcon Horned owl Magpie Raven Crow Red-tailed Hawk) Swainson's Hawk) Sparrow Hawk)	1	10/10/56	6	Jan. 57	1 4/29
					Solitary birds observed occasionally Scattered pairs present over refuge Small flocks on strays noted weekly A common local migrant and nests in small numbers, a few birds wintered at area Noted occasionally during latter part of April.
					Reported by.....

INSTRUCTIONS

- (1) Species: Use the correct names as found in the A.O.U. Checklist, 1931 Edition, and list group in A.O.U. order. Avoid general terms as "seagull", "tern", etc. 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. Groups: I. Water and Marsh Birds (Gaviiformes to Ciconiiformes and Gruiformes)
II. Shorebirds, Gulls and Terns (Charadriiformes)
III. Doves and Pigeons (Columbiformes)
IV. Predaceous Birds (Falconiformes, Strigiformes and predaceous Passeriformes)
- (2) First Seen: The first refuge record for the species for the season concerned.
- (3) Peak Numbers: The greatest number of the species present in a limited interval of time.
- (4) Last Seen: The last refuge record for the species during the season concerned.
- (5) Production: Estimated number of young produced based on observations and actual counts.
- (6) Total: Estimated total number of the species using the refuge during the period concerned.

3-1752
Form NR-2
(April 1946)

UPLAND GAME BIRDS

1613

Refuge LaCreek National Wildlife Refuge Months of January to April, 1957

(1) Species	(2) Density		(3) Young Produced		(4) Sex Ratio	(5) Removals			(6) Total	(7) Remarks
Common Name	Cover types, total acreage of habitat	Acres per Bird	Number broods obs'd.	Estimated Total	Percentage	Hunting	For Re- stocking	For Research	Estimated number using Refuge	Pertinent information not specifically requested. List introductions here.
Ring-necked Pheasant	4,600 acres up- land area intersp. w/winter cover areas								1,500	Hailstorms of 1956 reduced population
Sharp-tailed Grouse	4,600 acres								25	Birds are at a cyclic low and most of wintering flock moves out to pplands during nesting season
Hungarian Partridge	Straggling coveys present in territory									

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

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.
- (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.

3-1754
Form NR-4
(June 1945)

SMALL MAMMALS

Refuge Lacreek National Wildlife Refuge Year ending April 30, 57

(1) Species	(2) Density	(3) Removals						(4) Disposition of Furs					(5) Total Popula- tion	
Common Name	Cover Types & Total Acreage of Habitat	Acres Per Animal	Hunting	Fur Harvest	Predator Control	For Re- stocking	For Re- search	Permit Number	Trappers Share	Refuge share	Total Refuge Furs Shipped	Furs Donated	Furs Destroyed	(S)
Muskrat				1291				T-7512	636	655				
Mink				36				"	18	17				
Skunk				40				"	40				40	
Weasel				2				"	1				1	
Raccoon				16				"	16					
Beaver				13				"	7				6	
Badger				5				"	5					
* List removals by Predator Animal Hunter														

REMARKS: Fur take and sales data incomplete due to lack of sales data from Auction Co. and loss of one shipment by chief trapper in the mails. Complete report to be submitted after data received.

Kenneth Krumm

Reported by

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.)

- (1) SPECIES: Use correct common name. Example: Striped skunk, spotted skunk, short-tailed 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.)
- (2) DENSITY: 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: 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 headings 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, including furs taken by Service personnel. Total number of pelts of each species destroyed because of unprime-ness 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.
- REMARKS: Indicate inventory method(s) used, size of sample area(s), introductions, and any other pertinent information not specifically requested.

REFUGE GRAIN REPORT

Refuge LaCreek National Wildlife RefugeMonths of January through April, 1957

(1) VARIETY*	(2) ON HAND BEGINNING OF PERIOD	(3) RECEIVED DURING PERIOD	(4) TOTAL	(5) GRAIN DISPOSED OF				(6) ON HAND END OF PERIOD	(7) PROPOSED OR SUITABLE USE*		
				Transferred	Seeded	Fed	Total		Seed	Feed	Surplus
Wheat-Millet Mix	0	150	150	-	-	150	150	0	-	-	0
Barley-Corn Mix	0	150	150	-	1	150	150	0	-	-	0
Shelled Corn	0	168	168	-	-	10	10	158	-	158	0

(8) Indicate shipping or collection points Martin, South Dakota(9) Grain is stored at Refuge grainerys at headquarters site.(10) Remarks All grains are fed to captive goose flocks at this station.

*See instructions on back.

(10) Remarks

NR-8a

(a) Grain is stored at

(8) Indicate shipping or collection points

REFUGE GRAIN REPORT

This report should cover all grain on hand, received, or disposed of, during the period covered by this narrative report.

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 lb., corn (ear)—70 lb., wheat—60 lb., barley—50 lb., rye—55 lb., oats—30 lb., soy beans—60 lb., millet—50 lb., cowpeas—60 lb., and mixed—50 lb. In computing volume of granaries, multiply the cubic contents (cu. ft.) by 0.8 bushels.

- (1) List each type of grain separately and specifically, as flint corn, yellow dent corn, square deal hybrid corn, garnet wheat, red May wheat, durum wheat, spring wheat, proso millet, combine milo, new era cowpeas, mikado soy beans, etc. Mere listing as corn, wheat, and soybeans will not suffice, as specific details are necessary in considering transfer of seed supplies to other refuges. Include only domestic grains; aquatic and other seeds will be listed on NR-9.
- (3) Report all grain received during period from all sources, such as transfer, share cropping, or harvest from food patches.
- (4) A total of columns 2 and 3.
- (6) Column 4 less column 5.
- (7) This is a proposed break-down by varieties of grain listed in column 6. Indicate if grain is suitable for seeding new crops.
- (8) Nearest railroad station for shipping and receiving.
- (9) Where stored on refuge: "Headquarters granary," etc.
- (10) Indicate here the source of grain shipped in, destination of grain transferred, data on condition of grain, unusual uses proposed.

16-61482-1 U. S. GOVERNMENT PRINTING OFFICE

DATE	OR PERIOD BEGINNING ON HAND	PERIOD DURING RECEIVED	TOTAL	GRAIN DISPOSED OF				PERIOD END OR ON HAND	DISPOSED ON RAILROADS ETC.		
				Disposed	Seeded	Fed	Other		Seed	Feed	Other
(1)	(2)	(3)	(4)	(5)				(6)	(7)		

Refuge location and name

Month of

through

192

REFUGE GRAIN REPORT

Sunday, May 19

Early Breakfasts at Martin Cafes

6:00 a.m. to 12:00 a.m. - - - - - Field Trips
Lacreek National Wildlife Refuge

12:00 a.m. to 1:30 p.m. - - - - - Picnic Lunch
At Refuge Picnic Area

1:30 p.m. to 2:30 p.m. - - Compilation of Notes

More Field Trips if Desired

Adjournment

Hosts, Cooperators and Sponsors of Annual Meeting

Program

SDOU Membership, Fish & Wildlife Service and National Park Service
personnel, SDOU Annual Program Committee

Hosts

of American Legion and Auxiliary
Lacreek Nat'l Wildlife Refuge, Martin, S. Dak.; Bennett County Post

Annual Banquet

American Legion Auxiliary, Bennett County Post

Program Cover Illustration

Sioux Falls Bird Club

Publicity and Printing

Bennett County Booster II



South Dakota Ornithologists Union

Annual Meeting

May 18-19, 1957

Lacreek National Wildlife Refuge

Martin, South Dakota

Program

Friday Evening, May 17

7:30 p.m. to 9:00 p.m. - - - Social Gathering
Parlors of Presbyterian Church adjacent to West Hotel

Welcome - - - T. M. McKee
President, Martin Commercial Club

Saturday Morning, May 18

Early Breakfasts at Martin Cafes

5:00 a.m. to 9:00 a.m. - - - Field Trips
Lacreek National Wildlife Refuge

9:00 a.m. to 10:00 a.m. - - - Registration
At Refuge Office Building

10:00 a.m. to 10:15 a.m. - - - Welcome
Charles P. Crutchett, President SDOU, Armour, S. Dak.

10:15 a.m. to 10:30 a.m. - - History of SDOU
Herbert Krause, Augustana College, Sioux Falls, S. Dak.

10:30 a.m. to 11:00 a.m. - - -
- - - Lacreek Refuge Bird Life and Migrations
Kenneth Krumm, Manager, Lacreek Refuge, Martin, S. Dak.

11:00 a.m. to 12:00 a.m. - - -
- - - Management of Region 3 Wildlife Refuges
(Film and Accompanying Narrative) Clair T. Rollings, Assistant Supervisor, Wildlife Refuges, U. S. Fish and Wildlife Service, Minneapolis, Minnesota

12:00 a.m. to 1:30 p.m. - - - Picnic Lunch
At Refuge Headquarters

Saturday Afternoon and Evening, May 18

1:30 p.m. to 2:00 p.m. -
- Natural History of the Badlands Nat'l Monument
John A. Rutter, Supt., Badlands National Monument, National Park Service, Interior, S. Dak.

2:00 p.m. to 2:30 p.m. - - -
- - - West River Nat'l Park Service Area Bird Life
Wayne Bryant, Park Naturalist, National Park Service
Hot Springs, S. Dak.

2:30 p.m. to 3:00 p.m. - -
- - Observations of Bird Life in S. Dak. and Mex.
Dr. L. J. Moriarty, Watertown, S. Dak.

3:00 p.m. to 3:15 p.m. - - - Intermission

3:15 p.m. to 4:15 p.m. - - -
- - - Volunteer Bird Notes From Audience

4:15 p.m. to 5:30 p.m. - - -
- - - Annual Business and Directors Meeting

7:00 p.m. to 8:00 p.m. - - - Annual Banquet
Dining Room of American Legion Memorial Building, Martin, S. Dak.

8:00 p.m. to 9:00 p.m. - Sioux Songs and Dances
Delegation of Oglala Sioux Indians led by Chief Black Elk

20 Flandreau Creamery Day.....Flandreau
20-22 S.D. Pharmaceutical Assn. (71) &
S.D. Allied Drug Travelers Assn.....Rapid City
20-22 S.D. State Horticultural Society (73) and
S.D. Federation of Garden Clubs (15).....Pierre

June 20
thru 9/1 Meller Drammer Theatre
(every nite except Thurs.).....Rockerville
23-24 75th Anniversary Celebration.....Carthage
23-25 S.D. Retail Liquor Dealers (12).....Sioux Falls
24-25 Czech Days.....Tabor
24-27 S.D. Dist. Assembly of the Church of
The Nazarene.....Mitchell
24-27 Outdoor Education Workshop (University)....Vermillion
25 Catholic Daughters of America State Institute..Mitchell

26 1957 Watertown Soap Box Derby.....Watertown
26 S.D. Municipal Liquor Control Assn. (7).....Watertown
26-28 S.D. League of Municipalities (24).....Watertown
26-28 Municipal Electric Association of S.D. (8).....Watertown
26-30 North American Baptist Convention.....Rapid City
28-30 Pari Mutuel Horse Racing.....Sioux Falls
29-30 Legion Annual Rodeo.....Canova
30 Central Association of Baptist Youth Meeting Mitchell

JULY

July Gavins Point Dam Dedication.....Yankton
3- 4 Pari Mutuel Horse Racing.....Sioux Falls
3- 5 Black Hills Roundup (38).....Belle Fourche
4 75th Celebration.....Estelline
4 Woonsocket Celebration.....Woonsocket
7 Crop Improvement Assn. Field Day.....Webster
9-10 50th Anniversary Celebration.....Wall
13-14 Sturgis Rodeo & Stock Show.....Sturgis
14 Florists Telegraph Delivery Assn. of S.D.....Pierre
15-19 Regional Nat'l Assn. of School Boards.....Rapid City
19-21 Class of '37 Reunion.....Watertown
20- 50th Anniversary Celebration at
Newell Experiment Farm.....Newell
20-21 Spearfish Rodeo.....Spearfish
20-22 11th Miss S.D. Talent & Beauty Pageant.....Hot Springs
21 7th Trophy Boat Races (Angostura Lake)....Hot Springs
21-27 Dakotas Laboratory School for
Christian Education Leaders.....Aberdeen
25-27 Great Plains Agricultural Council Meeting
(Sylvan Lake).....Custer
26-28 "Gold Discovery Days", Rodeo and Pageant.....Custer
28 Matched Bronc Riding Event (10 World Champion
Cowboys) Harley Roth's Ox-Yoke Ranch.....Nemo

July 29
thru 8/2 S.D. 4-H Members Assn. (43) (SDSC).....Brookings

AUGUST

2- 4 Days of '76.....Deadwood
3 Associated General Contractors Convention...Watertown
3- 4 Class of 1932 Reunion.....Lead
3- 4 S.D. Wildlife Federation Conference.....Pierre
3- 7 Holiday on Ice (Huron Arena).....Huron
4 Casey Tibbs 4-H Benefit Roundup.....Ft. Pierre
4 Jaycee Sportsman Show.....Aberdeen
4 S.D. Chapter Military Order of Cooties.....
8-9 Jack Pine Gypsy Tour
(A M A Sanctioned Nat'l Event).....Sturgis
10-11 Black Hills Motor Classic, Inc.,
Motorcycle Races.....Sturgis
11-13 Minnesota-Dakotas Dist.: Kiwanis Intern'l.....Huron
14-15 4-H Achievement Days.....Mitchell
14-15 4-H Achievement Days.....Flandreau
14-27 Conservation Workshop (Black Hills
Teachers College).....Spearfish

15-18 Range Days (Rodeo & Fair).....Rapid City
16-17 Days of 1910.....Timber Lake
16-21 Sioux Empire Fair (18).....Sioux Falls
18-19 4-H Achievement Days.....Miller
18-20 Grand Commandery of
Knights Templars of S.D. (74).....Mitchell
19-22 Annual Coaching Clinic.....Rapid City
19-22 4-H Achievement Days.....Gregory
20-22 Clark County Fair, 4-H Achievement Days.....Clark
21-23 4-H Achievement Days.....Vermillion
21-24 Butte County Fair.....Nisland
22-23 Days of '59.....Vermillion
25 S.D. Court Reporters Assn.....Watertown
25 Clay County Old Settlers Picnic.....Vermillion
25-29 Brown County Fair & 4-H Show.....Aberdeen
26 S.D. Judges Assn.....Watertown
26-27 S.D. Assn. of Insurance Agents.....Huron
26-28 S.D. States Attorneys Assn.....Watertown
26-28 S.D. Bar Assn. (25).....Watertown
26-28 S.D. Junior Bar Assn.....Watertown
26-31 Western S.D. Horseback Trail Ride.....Rapid City
28-30 Day County Fair & 4-H Achievement Days.....Webster

Aug. 29
thru 9/2 25th Anniversary, S.D.
Amateur Baseball Tournament.....Watertown
Aug. 30
thru 9/1 S.D. Assn. of the Deaf.....Yankton
31 Cosmopolitan Kiddies Parade.....Rapid City

SEPTEMBER

Sept. S.D. Mutual Ins. Companies Assn. (5).....Sioux Falls
1 S.D. Assn. of County Officials.....Belle Fourche
1 Horseless Carriage Club's Tour.....Rapid City
1 Kiwanis Annual Horse Show.....Sisseton
2 Annual Horse Show.....Colton
2 Labor Day Celebration.....Newell
2 Labor Day Celebration.....Wagner
2 Labor Day Celebration.....Lead
2 Labor Day Celebration & Free Barbecue.....Kadoka
2 Labor Day Celebration.....Parkston
2- 7 S.D. State Fair (73)Huron
8 Chicago-Black Hills Hwy. Assn. (12).....Vermillion
8 Rim Rock Hwy. Assn (10)
Annual Picnic at Big Bend Community Hall...Rapid City
10-11 Area 4-H Show and Sale.....Mitchell
11-13 S.D. Water & Sewage Works Conference (23) Sioux Falls
14 National Guard Assn. of S.D. (4).....Sioux Falls
(7)14 Woodmen's Field Day.....Deadwood
14-15 S.D. Assn. of Chiropractors.....
15-17 S.D. Realtors Assn. (14).....Watertown
15-17 Passion Play.....Aberdeen
15-19 S.D. 4-H Leaders Assn. (Rural Elder).....Nemo
18-20 Great Plains Habitat Conference.....Rapid City
19 S.D. Credit Bureaus Assn. (19).....Sioux Falls
19-20 S.D. Veterinarians Association.....Sioux Falls
20-21 S.D. Hotel Assn.....Pierre
20-21 Western S.D. Annual Stud Ram Show & Sale.....Newell
21-22 S.D. State Amateur Radio Convention.....Huron
22-24 National Delegates Conv. of Catholic Aid....Aberdeen
22-28 Corn Palace Festival.....Mitchell

Sept. 23
thru 10/4 Natural Resources Conference.....Sioux Falls
24 S.D. Market Hog Show.....Mitchell
24-26 S.D. Baptist Convention.....Aberdeen
25-27 S.D. Public Health Assn. & S.D. Soc.
Welfare Conference (33) Joint meeting.....Yankton
27-28 S.D. Chapter: American Cancer Society (37).....Huron
27-28 Intern. Assn. of Personnel in Employment
(16) (I.A.P.E.S.).....Aberdeen
(T)27-28 S.D. Society for Crippled Children.....Pierre

27-29 S.D. Hairdressers & Cosmetologists Assn...Sioux Falls
27-29 Zonta International Dist. Meeting.....Rapid City
30 County Teachers Institute.....Sioux Falls
Sept. 30
thru 10/1 State Assn. S.C.D.
Annual Meeting (Soil Conservation Dist.).....Pierre

OCTOBER

Oct. Tri State Peace Officers Assn.....Sioux Falls
1- 2 S.D. Fed. of Home Demonstration Clubs (29)..Watertown
2- 4 S.D. Library Assn. (51).....Aberdeen
3 Mitchell Area Land Judging Contest.....Mitchell
3- 4 Federal Land Bank Meeting.....Huron
3- 5 S.D. Assn. of Future Homemakers of Am. (12)....Mitchell
5 Commercial Club Annual Pancake Day.....Canova
5 Blue & White Day (Dakota Wesleyan).....Mitchell
5 Pioneer Day.....Yankton
5 S.D. Soc. of Certified Public Accountants..Rapid City
6- 8 S.D. Motel Assn. (10).....Rapid City
7- 8 Upper Midwest Polled Hereford Assn. (11).....Huron
7-10 S.D. Nurses Assn. (39).....Mitchell
7-11 Broadcasting & Film Commission's Radio-TV
Workshop for Church Leaders.....Sioux F
8 Central South Dakota Calf Show.....M
8-10 S.D. Grand Chapter of Eastern Star.....Rapid City
8-10 S.D. Presbyterian Synod.....Huron
10-11 National Cornhusking Contest.....Sioux Falls
11-12 S.D. Farmers Union Convention (42).....Huron
11 Annual Charity Ball.....Mitchell
12 Swarm Day.....Spearfish
12 Gypsy Day.....Aberdeen
12 Dakota Day.....Vermillion
13-14 S.D. Catholic Hospital Assn.....Sioux Falls
14-17 19 State Congregational Church Conference.Sioux Falls
15-16 S.D. Hospital Assn. Fall Conference (31)..Sioux Falls
16-17 S.D. Independent Oil Men's Assn. (39).....Aberdeen
17 U.S. Air Force Band/Singing Sergeants.....Lemmon
18-19 S.D. Mental Health Assn.....Aberdeen
19 Hobo Day.....Brookings
21 Grand Council R. & S.M. of South Dakota (41)
(Royal & Select Masons).....Rapid City
22 Grand Chap. Royal Arch Masons Of S.D. (68) Rapid City
25 Tanagers Day.....Vermillion

NOVEMBER

6- 8 S.D. Education Assn. (72) Eastern Regional...Mitchell
Western Regional..Rapid City
6- 8 S.D. Episcopal Youth Convention.....Mitchell
8- 9 S.D. Music Teachers Assn. (3).....Aberdeen
9 National 4-H Achievement Day.....Webster
13-15 S.D. Rural Electric Assn. (16).....Huron
16 S.D. Assn. of Educational Secretaries.....Pierre
17 Farmer-Rancher-Businessmen's Banquet.....Lemmon
19-21 S.D. Retail Implement Dealers Assn. (61).....Huron
22-23 S.D. Ironsmiths & Welders Assn., Inc. (41).....Huron
25-26 S.D. Sec.: Am. Soc. of Range Management...Rapid City

DECEMBER

Dec. Black Hills Beet Growers Coop. Assn.....
2- 3 Farmers Elevator Assn. of S.D. (50).....Huron
26-28 United Christian Youth Midwinter An. Mtg.....Huron
(T)29 S.D. Rodeo Assn.....Ft. Pierre

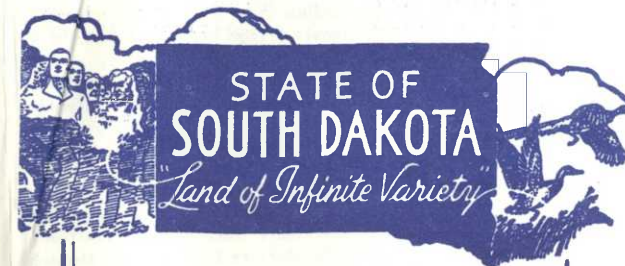
1958

JANUARY

13-18 Snow Queen Festival Week.....Aberdeen
19-20 S.D. Agricultural Show.....Watertown
21-22 4th Annual Assembly of S.D. Council of Churches..Huron

FEBRUARY

5- 6 S.D. Lumbermen's Assn. (39).....Sioux Falls
5- 6 Tri-State Assn. Of
Building Material and Coal Salesmen.....Sioux Falls



1957 CALENDAR OF EVENTS

BOATING RODEOS
DRAMA CONVENTIONS
FAIRS ENTERTAINMENT
MEETINGS FESTIVALS
SKIING DOG RACING
SPORTS HORSE RACING
CELEBRATIONS

"SEE SOUTH DAKOTA"

Compiled and Distributed
by the

Organized March 6, 1936

Greater
SOUTH DAKOTA
Association

P.O. Box 1217
HURON, SOUTH DAKOTA

MARCH

1-2 National Forensic League State Meet.....Mitchell
 1-2 Sioux Empire Sectionals Bridge Tourney....Sioux Falls
 2-10 National 4-H Club Week
 2 S. D. Dairy Queen Association (6).....Sioux Falls
 2 Region "B" Basketball Tournament.....Mitchell
 3-4 S.D. Optometric Association Educational Meeting..Huron
 3-5 N. & S.D. (6) Well Drillers Association.....Aberdeen
 4-5 S.D. (Checker) Crossboard Tournament.....Winner
 4-5 State Protestant Basketball Tournament.....Mitchell
 5-6 District Basketball "A" Tournament.....Lemmon
 6-7 Sectional (A) VI Basketball Tournament.....Mitchell
 7-8 S.D. Wheat Growers Agriculture Clinic.....Aberdeen
 7-8 Concrete Products Mfrs. Assn. of S.D. (11)....Mitchell
 7-9 S.D. State Class "B" Basketball Tournament.....Huron
 8 World Day of Prayer - United Church Women...Worldwide
 11-13 S.D. Assn. of Assessing Officers (7).....Huron
 11-16 Shrine Circus.....Sioux Falls
 12 Soil Conservation Service Area Meeting.....Newell
 12 School Administrators and School Board
 Members Conference (19).....Brookings
 13 School of Mines & Technology
 "Singing Engineers".....Mobridge
 13 School of Mines & Technology
 "Singing Engineers".....Aberdeen
 13-14 Merchandise Show.....Clark
 14 School of Mines & Technology
 "Singing Engineers".....Watertown
 14 School of Mines & Technology
 "Singing Engineers".....Milbank
 14-16 S.D. State Class "A" Basketball Tournament...Aberdeen
 15 School of Mines & Technology
 "Singing Engineers".....Madison
 15 School of Mines & Technology
 "Singing Engineers".....Sioux Falls
 15-16 Strollers Vaudeville.....Vermillion
 16 S.D. Potato Growers Association.....Watertown
 16 Annual Firemen's St. Patrick's Ball.....Mitchell
 18-19 Farmers Mutual Ins. Assn. of S.D.....Huron
 19-20 State Weed & Pest Control Conference (10)....Madison
 19-21 S.D. Hardware Association (52).....Sioux Falls
 20-22 S.D. Daughters of the Am. Rev. Conv. (43)....Rapid City
 21-23 Annual Butte County Hobby Show.....Belle Fourche
 22-23 Little International (SDSC).....Brookings
 23 Youth Conference.....Vermillion
 24-26 S.D. Assembly United Church Women.....Aberdeen
 26 Home Show.....Yankton
 29-30 S.D. All State Bandmasters Assn.....P
 29-30 State Farmer-Worker Conference (S.D.F.U.)....ron
 29-30 State Park & Recreation Meeting.....Sioux Falls
 30 Journalism Exhibit and Clinic.....Vermillion
 March 30
 thru 4/1 Home Builders Show.....Aberdeen

APRIL

Apr. S.D. Frozen Food Lockers Association (20)
 1-2 School Administrators Workshop.....Vermillion
 2-3 Junior Chamber of Commerce Builders Show... Mitchell
 2-3 S.D. League for Nurses.....Yankton
 4-5 S.D. Press Association (75).....Huron
 5 Region V High School Music Contest.....Mitchell
 5-7 Jaycee Builders Show.....Watertown
 6 Region 3 Music Contest (SDSC).....Brookings
 6-7 S.D. State Women's Bowling Tournament.....Aberdeen
 6-7 Council #41 Int'l Toastmistress Club...Bismarck, N.D.
 7-9 S.D. Professional Photographers Assn.....Sioux Falls
 7-9 Annual Conference: Dist. 175 Rotary Int'l...Brookings
 8-9 S.D. Hospital Association Spring Meeting.....Huron
 9-10 State Pharmacy Institute (SDSC).....Brookings

10 "Miss University" Contest.....Vermillion
 10 Tri-State Rifle League.....Brookings
 10-11 S.D. Bankers Agricultural Short CoursePierre
 10-12 S.D. REA Foremen's Conference.....Huron
 12-13 S.D. Social Science Assn.....Mitchell
 12-14 S.D. Beer Wholesalers Assn. (12).....Sioux Falls
 13 Invitational Track Meet.....Vermillion
 13 Science Fair.....Vermillion
 13 S.D. Department of Classroom Teachers.....Huron
 13 Southeastern S.D. Real Estate Conference..Sioux Falls
 13 Tri-City Music Festival.....Brookings
 13-14 National Rifle Assn. Junior Championship...Watertown
 13-14 S.D. State Women's Bowling Tourney.....Aberdeen
 14-15 S.D. Bottlers Association (47).....Rapid City
 14-16 S.D. Better Restaurant Assn. (27).....Mitchell
 14-20 National Forensic Contest.....
 14-21 National Conv. Pi Kappa Delta (SDSC).....Brookings
 15-16 S.D. Assn. of Medical Record Librarians.....Huron
 18 S.D. Truckers Assn. (8).....Yankton
 20-21 S.D. State Women's Bowling Tourney.....Aberdeen
 22 S.D. Collegiate Physical Education Assn....Brookings
 22-23 S.D. Assn. of Plumbing Contractors.....Sioux Falls
 23 S.D. Dist. Evangelical Lutheran Church Conv.(37)Huron
 23-24 S.D. Congress of Parents & Teachers (37)....Aberdeen
 23-30 F.F.A. State Convention.....Brookings
 25-26 S.D. Liquid Gas Assn.....Huron
 24-25 S.D. Aberdeen Angus Show and Sale.....Aberdeen
 25-26 S.D. Conf. of Women's Soc. of Christian Serv..Mitchell
 25-27 S.D. Academy of Science (42).....Sioux Falls
 25-28 Spring Reunion Oriental Consistory.....Yankton
 26 Military Ball.....Vermillion
 26-27 S.D. Society of X-Ray Technicians (9).....Mitchell
 26-28 S.D. Credit Union League (20).....Deadwood
 27 United Nation's Day at University.....Vermillion
 27 Patriarchs.....Sioux Falls
 27 S.D. Assn. of Nurse Anesthetists (9).....Sioux Falls
 27-28 S.D. State Women's Bowling Tourney.....Aberdeen
 27-28 S.D. Conference Wesleyan Service Guild.....Mitchell
 27-29 S.D. Knights of Columbus (53).....Huron
 27-29 S.D. United Nations Association.....Sioux Falls
 28-29 S.D. Photography Operators Spring Mtg. (53)....Salem
 28-30 Y.C.L. Convention (27).....Pierre
 29 School Executive Conf. (Higher Education)..Vermillion
 April 29
 thru 5/1 S.D. Sportsmen's Show.....Sioux Falls
 30 Little Hickory Stick Conference Track Meet...Mitchell
 April 30
 thru 5/1 Pastoral Counseling Institute.....Vermillion
 pril 30
 thru 5/1 S.D. Bakers Association (32).....Sioux Falls
 April 30
 thru 5/2 S.D. Conference of Am. Guild of Organists....Yankton

MAY

May Sioux Valley Dist. Norwegian Singers (20).Sioux Falls
 May S.D. Automobile Dealers Assn. (39).....Huron
 May 1 Corn Belt Conference Track Meet.....Mitchell
 2-4 S.D. Federation of Women's Clubs (58).....Huron
 2-5 Congregational Conference of South Dakota(87)Aberdeen
 3 Custer Battlefield
 Highway Conference Track Meet.....Mitchell
 3 S.D. Elem. Principals & Supervisors Assn.....Pierre
 3-4 S.D. Mental Health Association (12).....Mitchell
 3-4 Cosmopolitan Federation.....Sioux Falls
 3-5 73rd Convocation Missionary District
 of Episcopalian Church.....Rapid City
 3-5 S.D. Bridge Tourney (23).....Huron
 3-5 S.D. Assn. for Retarded Children, Inc., Conv.Mitchell
 4 Junior College Track Meet.....Mitchell
 4 Dakota Shorthorn Show & Sale.....Mitchell

(T) 4 S.D. Collegiate Press Assn. (49).....Sioux Falls
 4-5 Flying Farmers-Ranchers Regional Conv.....Aberdeen
 4-5 S.D. State Women's Bowling Tourney.....Aberdeen
 5-6 S.D. Optometric Assn. (48).....Mitchell
 6 Davison-Hanson Track Meet.....Mitchell
 6-7 S.D. Funeral Directors Assn. (58).....Deadwood
 8 S.D. Bankers Junior Employees Conference.....Huron
 8-10 S.D. State Chapter: P E O (41).....Lead
 8-12 Dakotas Evangelical United Brethren Conf.....Milbank
 9-11 Grand Council of S.D. United Commercial Travelers
 of America (46) and Auxiliary (30).....Watertown
 10 Regional Track Meet.....Mitchell
 12-13 Woodmen Circle.....Deadwood
 12-15 S.D. Dental Assn.(74) & Dental Assts. (27)..Watertown
 12-15 S.D. Dental Hygienists Association.....Watertown
 14-16 Women's League of Voters (2).....Sioux Falls
 15 Women's Day (SDSC).....Brookings
 16-18 S.D. Branch: Nat'l League of Postmasters (34).Yankton
 17-18 S.D. State "A" & "B" Track Meet.....Mitchell
 17-18 National College Rodeo.....Rapid City
 17-18 S.D. Assn. of Life Underwriters.....Mitchell
 17-19 S.D. Jaycees (19) & Jaycettes Convention.....Lemmon
 18 North Central Conference Track Meet.....Vermillion
 18-19 S.D. Tulip Festival (Fish Lake).....Plankinton
 18-19 S.D. Ornithologists Union (LaCreek
 Wildlife Refuge).....Martin
 18-21 S.D. Medical Association (76).....Sioux Falls
 19-20 S.D. Finance Conference (16).....Huron
 20-24 S.D. Lutheran (Mo. Synod) Convention.....Rapid City
 21 S.D. Society of Obstetrics & Gynecology...Sioux Falls
 22-24 Upper Midwest Hospital Conference (10)... Minneapolis
 24 S.D. Shorthorn Breeders Association
 and State Sale.....Brookings
 24-26 S.D. Assn. of Epsilon Sigma Alpha Society (7)...Huron
 24-27 Soroptimists.....Sioux Falls
 25-26 Junior Rodeo.....Hot Springs
 26-27 S.D. Retailers Association (59).....Custer
 May 26
 thru 6/1 Boys State (15).....Aberdeen
 May 26
 thru 6/2 Soil Stewardship Week.....Statewide
 27 American Scotch Highland Breeders Assn..Belle Fourche
 30 Horse Show.....Vermillion
 May 30
 thru 6/1 V.F.W. Carnival Days.....Brookings
 May 31
 thru 6/2 75th Anniversary Pageant (Yankton College)...Yankton
 May 31
 thru 6/2 S.D. Chiropractor Assn. (44) (Sylvan Lake)....Custer

JUNE

June 1
 thru 9/1 Broken Boot Gold Mine Underground Tour
 Daily (7:00 a.m.-8:00 p.m.).....Deadwood
 June S.D. States Attorneys Assn. with Sheriffs.....Pierre
 June S.D. Clinic Managers Assn.....Madison
 June S.D. Children's Home Society.....Sioux Falls
 1-2 S.D. Quarter Horse Show (6).....Aberdeen
 1-2 S.D. Society of Osteopathic Physicians
 and Surgeons (53).....Huron
 2-4 S.D. Veterans of Foreign Wars (28).....Deadwood
 2 Old Settlers Picnic.....Bristol
 2-3 S.D. Dist. Lutheran Brotherhood.....Brookings
 2-4 Bristol's Diamond Jubilee.....Bristol
 2-3 Desciples of Christ State Convention.....Winner
 2-9 S.D. Firemen's Assn. (73) & Fire School (28) Mitchell
 3 Friends of South Dakota.....Chamberlain
 3 Opening & Dedication of Highway 34 Wessington Springs
 3-4 Trail Days.....Ipswich
 3-4 S.D. Barber's Assn. (4).....Belle Fourche

3-5 Diamond Jubilee.....Wessington Springs
 3-5 Women's Relief Corps.....Aberdeen
 3-5 Last Roundup Club (10).....Pierre
 3-5 S.D. Stock Growers Assn. (66).....Pierre
 4-6 S.D. Nat'l Chap. Assn. of Postmasters (19) Rapid City
 4-6 Evangelical Lutheran S.D. Dist. Conv.....Brookings
 4-9 Fine Arts Conference of American Guild of
 Organists (Yankton College).....Yankton
 5-6 Faulkton Diamond Jubilee.....Faulkton
 5-7 Assn. of S.D. County Superintendents (56)....Deadwood
 6-8 S.D. Federation of Labor AFL & CIO (38)....Watertown
 6-8 S.D. State Grange (48).....Huron
 6-10 S.D. Methodist Church Conference.....Sioux Falls
 7-8 Highmore Diamond Jubilee.....Highmore
 7-8 S.D. Bankers Assn. (65).....Rapid City
 7-8 S.D. Assn. of Letter Carriers (33).....Sioux Falls
 7-8 S.D. Federation of Post Office Clerks (45)Sioux Falls
 7-8 S.D. Coin & Stamp Club (7).....Mobridge
 7-8 Delta Kappa Gamma (Sylvan Lake).....Custer
 7-8 S.D. Fed. of Trade Union Auxiliaries.....Watertown
 7-8 S.D. Assn. for the Blind.....Mitchell
 7-9 Dakota Moose Association.....Mobridge
 7-9 Disabled Am. Veterans of S.D. (18).....Rapid City
 7-9 S.D. Business & Professional Women (37)....Aberdeen
 7-9 S.D. Elks Convention (48).....Brookings
 7-9 9th Annual S.D. High School
 Championship Rodeo.....New Underwood
 7-9 Pari Mutuel Horse Racing.....Hot Springs
 7-9 Shrine Circus.....Rapid City
 9-11 Bristol Diamond Jubilee.....Bristol
 9-15 Girls State (11).....Mitchell
 10 Old Settlers Day.....De Smet
 10-14 Lions International (District V).....Sioux Falls
 10-14 S.D. Assn. of Sanitarians (8).....Mitchell
 11-12 S.D. Grand Lodge AF & AM.....Rapid City
 14 Flag Day Services.....Mt. Rushmore
 14-15 Flying Farmers & Ranchers convention.....Lemmon
 14-15 Old Sioux Sun Dance.....Pierre
 14-15 S.D. Rural Letter Carriers Assn. (53)....Aberdeen
 14-16 S.D. Tuberculosis & Health Assn. (44).....Huron
 14-16 Hub Area Sectional Bridge Tournament.....Aberdeen
 15 Progress Day Celebration.....Sturgis
 15-16 Grand Voiture, 40 & 8 S. Dakota.....Rapid City
 15-16 Shrine Circus.....Deadwood
 June 15
 thru 9/2 Trial of Jack McCall (5 nites weekly:
 Mon., Tues., Wed., Fri., & Sat.).....Deadwood
 16-17 2nd Annual Oahe PowWow.....Pierre
 16-18 Upper Midwest Agriculture Council.....Sioux Falls
 16-18 United Spanish War Veterans (37) & Aux.... Brookings
 June 16
 thru 9/1 Black Hills Passion Play
 (Tues., Thurs., Sun. only).....Spearfish
 16-19 American Legion of S.D. Conv. (39).....Rapid City
 16-19 50th Anniversary Celebration.....Lemmon
 16-22 N.W. United Christian Youth Training
 Conference (Placerville Camp) Route 1.....Rapid City
 17-18 Thoroughbred Racing.....Lemmon
 17-21 S.D. IOOF Grand Lodge (81) and
 Rebekah (66) Assembly..... Belle Fourche
 June 17
 thru 8/31 Old Spearfish Opera
 (Mon., Wed., Fri., & Sat.).....Spearfish
 June 18
 thru 9/9 Greyhound Racing (Black Hills Kennel Club)
 (Every nite except Sunday).....Rapid City
 19 Farmers Day.....Colton
 June 19
 thru 9/2 Black Hills Playhouse
 (Every nite except Tues.) State Park.....Custer

BIRDS OF THE LACREEK NATIONAL WILDLIFE REFUGE

Lacreek National Wildlife Refuge is located in southwestern South Dakota's historic Pine Ridge Sioux Reservation region near the Nebraska border. The area, which contains 9,442 acres, was established in 1935 as a unit in that part of the Federal refuge system extending over the Great Plains States to protect bird life of the western prairies.

The refuge is situated in a valley bordering the extreme northern margin of the Nebraska sandhills which fringe the interstate boundary in this locality. It includes the 5,000-acre Lacreek Lake and marsh, fed by spring creeks emerging from the adjacent sandhills, a bordering expanse of short grass upland prairie on the north and east, with the sandhills rising abruptly along the southern boundary.

Portions of the original lake bed consisting of damp lowland meadow and dense cattail, bulrush, and slough grass growth intersected by winding creek channel were deepened by construction of dikes to form an impoundment system of ten pool and marsh units. Water control gates permit maintenance of all types of aquatic habitat from open water areas to shallow flooded marshland. A number of nesting islands were formed by partial inundation of hummocks and knolls.

The area is relatively treeless except for a few willow groves or fringes on the lowlands and small upland shelterbelts. Important types of habitat include the lake and marsh, lowland meadows, deciduous tree fringes, remnants of original short grass prairie, and sandhills. This diversity and the location along the geographical dividing line between the ranges of eastern and western bird life results in a varied avifauna, with some hybridization apparent among such forms as the flickers, orioles, and juncos. Arboreal species are not abundant in this high plains region, occurring chiefly as migrants in the scanty tree growth during the seasonal migrations.

Principal bird attractions at this refuge include the western grebe, a pelican-cormorant colony, herons, bitterns, occasional egrets, the large seasonal waterfowl migrations, birds of prey, including both eagles and the prairie falcon, grouse, pheasants, various migrant and summer resident shorebirds, including the long-billed curlews, willets and avocets. Lark buntings and sparrows are numerous on the uplands.

The spring and autumn migrations, and the late summer concentrations of shorebirds and swallows are perhaps of most interest to visitors, though concentrations of bird life may be observed at all seasons. Sizable numbers of waterfowl, chiefly mallards, goldeneyes and mergansers remain through the winter in open channels below the spillways; and birds of prey, notably the eagles, are prominent at this season. Other seasonal attractions include the nesting cliff and barn swallows about the headquarters buildings and the colony of eastern meadowlarks frequenting the lowland meadows whose subdued calls contrast distinctly with the loud ringing carols of the western birds on the adjacent uplands.

The refuge may be reached over U. S. 18 through southern South Dakota, or via U. S. 20 through northern Nebraska, turning off on State 73 between Martin, South Dakota, and Merriman, Nebraska. Proceed to a refuge directional sign midway between the two towns, then drive six miles east to refuge headquarters. Eating and lodging accommodations are available at the town of Martin, 13 miles northwest of the refuge. Public picnic grounds are maintained at the station, and camping grounds are available at the public recreational zone five miles north of refuge headquarters.

The following list contains 207 species compiled by refuge personnel through field observations from 1936 to 1956. Six other species considered rare or accidental are added at the end of the list. Birds which have nested on the refuge are indicated by an *. Species names are in accordance with the Fifth A.O.U. Check-List. Seasonal abundance symbols are as follows:

Status

Abundance

Column 1 - S - March - May
 2 - S - June - August
 3 - F - September - November
 4 - W - December - January

a - abundant
 c - common
 u - uncommon
 o - occasional
 r - rare

	<u>S</u>	<u>S</u>	<u>F</u>	<u>W</u>		<u>S</u>	<u>S</u>	<u>F</u>	<u>W</u>
Common Loon	u	u			*Shoveler	a	o	a	r
Red-necked Grebe (Holboell's)	u	u			Wood Duck	r	r		
Horned Grebe	o	o			*Redhead	a	o	a	r
Eared Grebe	c	o	o		Ring-necked Duck	u	r	u	
*Western Grebe	c	o	c		*Canvasback	c	o	c	r
*Pied-billed Grebe	c	c	c		Greater Scaup			r	
*White Pelican	c	c	c		Lesser Scaup	a	r	a	r
*Double-crested Cormorant	c	c	c		Common Goldeneye (American)	c		c	c
Great Blue Heron	c	o	c		Bufflehead	c		c	
Green Heron	r	r			*Ruddy Duck	c	o	c	
Common Egret (American)		r			Hooded Merganser	u		u	
Snowy Egret	o	o			Common Merganser	c		c	o
*Black-crowned Night Heron	a	a	a		Red-breasted Merganser	u		u	
Least Bittern		r			Turkey Vulture	o	o	o	
*American Bittern	c	c	o	r	Sharp-shinned Hawk	r	r	r	
Whistling Swan	o	o			Cooper's Hawk	r	r	r	
Canada Goose	a	r	c	o	Red-tailed Hawk	o		o	
White-fronted Goose	u		c		Broad-winged Hawk	r		r	
Snow Goose	u		u		Swainson's Hawk	c	o	c	
Blue Goose	r		r		Rough-legged Hawk	o		c	c
*Mallard	a	c	a	a	Ferruginous Hawk	o	o	o	r
Black Duck	r		r		Golden Eagle	u		o	o
*Gadwall	c	c	c		Bald Eagle	u		o	o
*Pintail	a	o	c	o	*Marsh Hawk	c	c	c	o
*Green-winged Teal	c	r	c		Osprey	r	r	r	
*Blue-winged Teal	a	c	a		Prairie Falcon	o	o	o	o
Cinnamon Teal	r		r		Peregrine Falcon (Duck Hawk)	r	r	r	
*American Widgeon (Baldpate)	c	o	c		Pigeon Hawk	u	u	u	

	<u>S</u> <u>S</u> <u>F</u> <u>W</u>		<u>S</u> <u>S</u> <u>F</u> <u>W</u>
Sparrow Hawk	c o o	*Short-eared Owl	o o o o
Greater Prairie Chicken	r r r r	Nighthawk	c o c
*Sharp-tailed Grouse	c o c c	Chimney Swift	r
*Ring-necked Pheasant	a a a a	Belted Kingfisher	c c o
Partridge (European)	r r r r	Yellow-shafted Flicker	c o c
Sandhill Crane	a a	Red-shafted Flicker	c o c o
King Rail	r r	Red-headed Woodpecker	o o o
Virginia Rail	o o	Hairy Woodpecker	u u u u
*Sora	c c	*Downy Woodpecker	o o o o
*American Coot	a c a	*Eastern Kingbird	c c
Gallinule	r	*Western Kingbird (Arkansas)	c c
Semipalmated Plover	u	Great Crested Flycatcher	u u
*Killdeer	c c c	Eastern Phoebe	r r
American Golden Plover	u	Say's Phoebe	u u
Black-bellied Plover	u	Traill's Flycatcher	c o
Reddy Turnstone	o	Least Flycatcher	o o
Common Snipe (Wilson's)	u u	Olive-sided Flycatcher	r r
*Long-billed Curlew	o o	*Horned Lark	a a a a
*Upland Sandpiper	o o	Tree Swallow	a a
*Spotted Sandpiper	c c	Bank Swallow	a a
Solitary Sandpiper	u	*Barn Swallow	c c o
*Willet	c c	*Cliff Swallow	c c
Greater Yellowlegs	a a o	Blue Jay	o o
Lesser Yellowlegs	a a o	*Black-billed Magpie	c o c o
Pectoral Sandpiper	c	*Crow	c o c o
White-rumped Sandpiper	o	Black-capped Chickadee	o o o c
Least Sandpiper	a a	Brown Creeper	u
Dowitcher	a a o	House Wren	c o
Stilt Sandpiper	u u	*Marsh Wren (Prairie)	a a
Semipalmated Sandpiper	c c	Sedge Wren (Short-billed Marsh)	o o
Marbled Godwit	c c	Rock Wren	o o
Sanderling	o	Mockingbird	r r
Bobcat	c c o	*Catbird	c c o
Wilson's Phalarope	c o c	*Brown Thrasher	c c o
Northern Phalarope	r	Robin	c o c r
Herring Gull	o o r	Swainson's Thrush (Olive-backed)	c o
Ring-billed Gull	a o c	Gray-cheeked Thrush	o o
Franklin's Gull	a o a	Eastern Bluebird	o o
Bonaparte's Gull	o	Mountain Bluebird	o o
*Forster's Tern	c c	Townsend's Solitaire	r
Common Tern	o o	Golden-crowned Kinglet	o o
*Black Tern	a a	Water Pipit (American)	c c
*Mourning Dove	c c o	Bohemian Waxwing	r
Yellow-billed Cuckoo	o o	Cedar Waxwing	c o
Black-billed Cuckoo	o o	Great Shrike (Northern)	o
Barn Owl	r	Loggerhead Shrike (White-rumped)	c o o
Screech Owl	r r r r	Starling	o o o o
*Horned Owl	o o o o	Bell's Vireo	u u
Snowy Owl	o o	Red-eyed Vireo	u u
*Burrowing Owl	o o o	*Warbling Vireo	o o

	<u>S</u> <u>S</u> <u>F</u> <u>W</u>		<u>S</u> <u>S</u> <u>F</u> <u>W</u>
Black and White Warbler	u	Lazuli Bunting	o o
Tennessee Warbler	u	*Dickcissel	o o
Orange-crowned Warbler	c o	Evening Grosbeak	r
*Yellow Warbler	c c c	Common Redpoll	c
Magnolia Warbler	o	Pine Siskin	u
Myrtle Warbler	a c	*American Goldfinch	c c c u
Black-poll'd Warbler	o	Rufous-sided Towhee	c c
*Yellowthroat	c c	*Lark Bunting	a a u
*Yellow-breasted Chat	u u	Savannah Sparrow	c o c
American Redstart	o o	Grasshopper Sparrow	o o o
*House Sparrow (English)	c c c c	Vesper Sparrow	c c c
*Bobolink	c c	Lark Sparrow	c o
*Eastern Meadowlark	a a	Slate-colored Junco	a a
*Western Meadowlark	a a a u	Oregon Junco	c c
*Yellow-headed Blackbird	a a c	Tree Sparrow	c a
*Redwing	a a a r	Chipping Sparrow	o o
*Orchard Oriole	o o	Clay-colored Sparrow	a
Baltimore Oriole	o	Harris's Sparrow	o o
Bullock's Oriole	o	White-crowned Sparrow	a a
Rusty Blackbird	o o	White-throated Sparrow	u u
Brewer's Blackbird	c o c	*Swamp Sparrow	c c
Grackle	c c	*Song Sparrow	c o
Brown-headed Cowbird	c c	McCown's Longspur	o o
Rose-breasted Grosbeak	r	Lapland Longspur	a c a
Black-headed Grosbeak	r	Chestnut-collared Longspur	c c
Indigo Bunting	r r		

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The following 6 species may be considered rare, accidental, or outside the usual range or preferred habitat, and are included on the basis of only one or two records:

Brown Pelican	Raven
Red-shouldered Hawk	Scarlet Tanager
Whimbrel (Hudsonian Curlew)	Cardinal

- - - - -

NOTES

PRELIMINARY ANNOUNCEMENT OF ANNUAL MEETING

SOUTH DAKOTA ORNITHOLOGISTS UNION

As announced in the last issue of "South Dakota Bird Notes", the next annual meeting of SDOU will be held at LACREEK NATIONAL WILDLIFE REFUGE, MARTIN, S. DAKOTA, MAY 18-19, 1957. A program committee including President Charles Crutchett, Armour; Dr. N. R. Whitney, Rapid City; Mr. J. O. Johnson, Watertown; and the Refuge Manager at LaCreek, has been working out details of the program.

Formal program, the annual business meeting, and field trips will be held at the refuge 13 miles southeast of Martin. The annual banquet is scheduled for Saturday evening, May 18 in the American Legion Auditorium in the town of Martin. Local hotel and motel facilities and the new auditorium assure us of satisfactory accommodations for our SDOU meeting. Arrangements have been made with local cafes for early morning breakfasts, and picnic lunches are planned at the refuge to limit noon hour travel. You will be provided a little later on with copies of the program, local accommodations, travel routes, etc.

This year's meeting will emphasize bird life of the state's southwestern shortgrass prairie and sandhills border region and opportunities for bird study in our National Wildlife Refuges and Parks. A varied program of speakers, films, and slides is being arranged through our SDOU membership, the Fish & Wildlife Service and National Parks. A period of volunteer bird notes from members of the audience is also planned.

Field trips will be organized for observation of the varied bird life of this national wildlife refuge, situated at 3200 feet altitude in a local transitional zone between sandhills marsh and arid upland prairie. You will be able to observe all types of bird life from marsh and water birds and arboreal forms frequenting the tree fringes to typical species of the short grass prairie. There will be Curlews, Avocets, Willets and the isolated colony of Eastern Meadowlarks, whose subdued calls contrast distinctly with the loud ringing carols of the Western bird on the adjacent uplands.

The main entertainment feature at the Saturday evening annual banquet will be songs and dances of the Sioux by a delegation of Oglalla Sioux Indians lead by Chief Black Elk who will interpret for us and give a brief talk on Indian lore and names of some of the prairie birds.

You will want to see the bird life of this national wildlife refuge on southwestern South Dakota's sandhills border. You will want to attend the program and partake of the field trips. You will want to see the Sioux Indians perform their tribal dances. So why not plan your itinerary now to include the ANNUAL MEETING OF SOUTH DAKOTA ORNITHOLOGISTS UNION AT LACREEK NATIONAL WILDLIFE REFUGE ON MAY 18-19, 1957.

PROGRAM COMMITTEE
1957 ANNUAL MEETING
SOUTH DAKOTA ORNITHOLOGISTS UNION