NR. SAZYER

$\qquad$
MFi DUMONT $\qquad$
MISS BAUM $\qquad$

SBCITON OF OPERATIONS:
MR. BALL


MR. RDGAN
DR. MORLEY $\qquad$


SECTION OF LAND MANAGEMENI's
MR - ACKERKNBCHT $\qquad$

## STENOGRAPHERS:



NARATIVE REPQRT
riguger Calhoun and Batchtown

PISRIOD: $V_{G-P\rangle}-1 E_{E C .}$ 1950

CALHOUN AND BATCHTOWN REFUGES NARRATIVE REPORT SEPTEMBER, OCTOBER, NOVEMBER, DECEMBER, 1950

## I. GENERAL

A. Weather Conditions:

The maximum temperature during this period was higher in every month except December, 1949. The minimum temperature was lower in every month except October, 1949. Rainf'all was 4.63 less this period, compared with the same period last year.

Relative readings are shown below:

| Month | Year | Maximum | Minimum | Precipitation |
| :---: | :---: | :---: | :---: | :---: |
| September | 1949 | 89 | 39 | 3.51 |
|  | 1950 | 91 | 36 | 1.77 |
| Cotober | 1949 | 87 | 29 | 6.22 |
|  | 1950 | 90 | 35 | . 98 |
| November | 1949 | 80 | 22 | trace |
|  | 1950 | 88 | 6 | 2.69 |
| December | 1949 | 70 | 15 | 1.14 |
|  | 1950 | 68 | 2 | . 80 |

B. Water Conditions:

River stages were about the same as last year, with no big changes occurring during the period. Fluctuations this year happened during the first of the week instead of week-ends, as was the case last year. This was better for fishermen, but hunters complained as usual.

The comparison of pools with the same period in 1949 is shown below:

| Month | Year | High | Low | Difference |
| :--- | :---: | :---: | :---: | :---: |
| September | 1949 | 15.3 | 14.4 | .9 |
| October | 1950 | 15.4 | 14.0 | 1.4 |
|  | 1949 | 15.5 | 14.4 | 1.1 |
| November | 1950 | 15.4 | 14.6 | .8 |
|  | 1949 | 15.4 | 14.5 | .7 |
| December | 1950 | 15.2 | 14.5 | .6 |
|  | 1949 | 15.2 | 14.4 | .8 |

Maximum monthly variation in 1950 was l.4, compared with 1.1 in 1949.

## II. WILDLIFE

A. Migratory Birds:

1. Populations and Behavior:
(a) Waterfowl:

Ducks started to come into the area on September 11 in fair numbers. Blue-wing teal were here in good numbers by August 23, which was earlier than usual. Some pintail showed up on September 20, and the peak concentration occurred November 19, compared with December 13 last year. The peak concentration last year was 400,000 , compared with this year's peak concentration of 150,000 . This year we had two cold waves during the hunting season, and ducks were pushed out and did not pile up in refuge areas as in other years. The Batchtown area peak concentration was 79,400 , compared with last year's peak of 100,000 . Ducks did not feed in cornfields as much as last year, and those that did would not come out until after shooting hours. Hunters complained that ducks were harder to decoy this year.
(b) Geese:

Canada geese started to come into refuge areas on October 9, compared with September 6. Last year's peak was on September 20, with 500 , compared with this year's peak of 200 on November 12.

Blue and snow geese showed a decrease this year, with a peak concentration of 4,000 birds on November 12, compared with last year with 10,000 birds on December 13. By December 7 a.ll geese had left the area.
(c) Swans:

None were observed.
(d) Egrets:

Egrets were here in goodly numbers during the early fall. The peak concentration was August 23, with about 800 birds in the area. Soon after the hunting season opened up, most all birds pulled out. I would say that egrets are inereasing in this area.
(e) Shorebirds and Other Water Birds:

Wilson snipe seem to be down some this year, when not as many were observed as last year. Last year 100 were observed, compared with 50 this year. Killdeer showed some increase over last year, and about 400 were seen.
2. Food and Cover:

Food and cover was about the same as last year in both areas. There were ample amounts present for the season was short; that is, the concentration of ducks using the closed areas lasted a shorter period compared with other years due to the cold waves during the period. Ducks did not use cornfields as much as last year, indicating that they were getting feed on the refuges. There should be plenty for the spring flight.
B. Upland Game Birds:

No upland game birds are present on either the Calhoun or Batchtown areas.

There is ample food and cover present on both areas to sustain fair numbers of upland game, but for some reason none of these birds use the areas.
C. Big Game Animals:

No big game animals are present on either area.
D. Fur Animals:
(a) Muskrats:

Muskrats have increased some in the areas, but the limited habitat area is not conducive to much of an increase in muskrats.
(b) Mink:

Trappers that trap in open areas say mink are about the same as last year. Some have been caught, but most all lakes are frozen up, and trappers report that there will be plenty left after this season.
(c) Skunk:

No sign of this species is noted in refuge areas as the land is too low for dens.
(d) Beaver:

It is thought that beaver are increasing in this area. There are signs of them on most islands along the Mississippi and Illinois Rivers.
(e) Otter:

None here.
(f) Raccoon:

A good number of raccoon are being oaught along the Illinois and Mississippi Rivers. Trappers say they don't want them, but when they set traps for mink they get a raccoon. Raccoon appear to be holding strong compared with last year.
(g) Foxes:

Foxes are about the same as last year, and are plentiful in all areas.
(h) Others:

Nothing under this.

## E. Predaceous Birds:

Eagles were here in good numbers, and about the same numbers were observed as last year. It is estimated that 25 are present. Hawiks are about the same as last year. Redtailea are observed almost every day. I would say this species is holding its own. Owls in the timbered areas were more plentiful than last year.
F. Fish:

Fishing was a little better than last year and goodly number of crappie, bluegill, and bass were taken. Fishing pressure was greater this year than last year. All boat liveries had a good year.
IV. ECONOMIC USE OF REFUGE
E. Other Uses:

Eight permittees for sharecropping report results as follows:

| Permittee | Permit | Acres | Permittee share | Govt. share |
| :---: | :---: | :---: | :---: | :---: |
| John Sherman | 113 | 30 corn | 360 | 120 left-field |
| W.F.Duncan | 110 | 6 corn | 120 | 60 left-field |
| John Held | 159 | 8 beans | 23.49 | 7.83 sold |
| August Toppmeyer | 158 | 10 beans | 120 | 40 sold |
| Henry C. Weigel | 112 | 20 corn | 375 | 125 sold |
| Joe Navarre | 114 | 6 corn, | through |  |
| Robert La Marsh | 111 | 6 beans | $t$ through | yet |
| Harry G. Bimslager | 160 | 80 beans | corn, not | hrough yet |
| Total permittees share corn 855 |  |  |  | $1801 \mathrm{fft-field}$ |
|  |  |  |  | 172.83 sold |

The Government's share was sold for $\$ 210.95$ and money orders were sent to the Winona office.
VI. PUBLIC RELATIONS
A. Recreational Uses:

Lots of boating and pienicking was observed on the Mississippi and Illinois Rivers. A lot of fishing was also done on these rivers this fall, with fair results
B. Refuge Visitors:

Dr. W. E. Green was here during the first few days of the hunting season, checking on hunting pressure and making bag cheoks.
C. Refuge Participation:

On October 17 the Refuge Manager attended a conference with War Department and Fish and Wildlife Service personnel from the main office, Mr. Steele from the Winona office, and Regional Office personnel.
D. Hunting:

The hunting was not so good this year due to two cold waves that kept the lakes frozen up about two weeks. This kept a lot of hunters out of the field. The last two weeks of hunting was confined to the river channel. The total number of hunters in all the areas checked was 8059, compared with 8695 last year. The total number of ducks killed this year was 8999 , compared with last year's 12,905.

## Batchtown Area

Hunters in field ..... 1512
Hunters checked. ..... 1512
Ducks in bag checked ..... 2189
Av. ducks in bag ..... 1.4
Total ducks killed in area ..... 2189
Stump Lake Area
Hunters in field ..... 5992
Hunters checked. ..... 1419
No. ducks checked. ..... 1409
Av. bag per hunter ..... 0.99
Estimated total killed ..... 5931
Diamond Island
No. hunters in area ..... 184
No. hunters checked ..... 184
No. ducks checked ..... 257
Av. bag per hunter. ..... 1.3
Estimated total kill. ..... 257
Reds Landing Club-Blackwell
No. hunters in area ..... 106
No. hunters checked ..... 106
No. ducks checked ..... 202
Av. bag per hunter. ..... 1.9
Estimated total kill ..... 202
Gilead Club
No. hunters in area ..... 68
No. hunters checked ..... 68
No. ducks checked ..... 200
Av. bag per hunter. ..... 2.9
Estimated total kill. ..... 200

## Bachelor Club (south of Gilead Club)

$$
\begin{aligned}
& \text { No. hunters in area . . . . . . . . . . } 197 \\
& \text { No. hunters checked . . . . . . . . . . } 197 \\
& \text { No. ducks checked . . . . . . . . . . . } 220 \\
& \text { Av. bag per hunter. . . . . . . . . . . } 1.1 \\
& \text { Estimated total kill. . . . . . . . . . } 220
\end{aligned}
$$

E. Fishing:

Bass, crappies and bluegill were fair through the fall up to November 3. Most fishing stopped then.

Commercial fishing was just fair this fall, with no big catches reported. Most of them have quit for winter as there is too much ice.
F. Violations:

Two cases were turned over to State wardens and settled in State court. Total fines were $\$ 50.00$, with costs of $\$ 8.00$.


January 10, 1951





## WA TERFOWL

yoces (ami oen
Refuge $\qquad$ Batehtowm

Months of September $\qquad$ to $\qquad$ December. 1950


3-1751
Form NR-1A
(Nov. 1945)

## MIGRATORY BIRDS

(Other than waterfowl)
Months of......September.......

$$
-110-10-1=0 .
$$

Dearamar. ...195. Q.



## INSTRUCTIONS

(1) Species:
(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.
Interior-Duplioating Section, Washington, D. C.

$$
3-1752
$$

$\qquad$ Galhoun Months of Soptember to $\qquad$ , 19/450


## INSTRUCTIONS

Form NR-2 - UPLAND GANE 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.

Refuge $\qquad$ Year $19 / 50$


Form NR-3 - BIC GAME
(1) SPECIES: Use correct common name; i.e., Mule deer, black-tailed deer, white-tailed deer. It is unnecessary to indicate sub-species such as northern or Louisians white-tailed deer.
(2) DENSITY: Applies particularly to those species considered in removal programs (public hunts, etc.) exclusive of fenced herds. Detailed data may be omitted for species occuring 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 total number of young produced on refuge.
(4) REMOVALS:
(5) LOSSES:
(6) INTRODUCTIONS:
(7) TOTAL REFUGE POPULATION:

Indicate total number in each category removed during the year.
On the basis of known records or reliable estimates indicate total losses in each category during the year.
Indicate the number and refuge or agency from which stock was secured.

Give the estimated population of each species on the refuge as of December 31.
(8) SEX RATION: Indicate the percentage of males and females of each species as determined from field observations or through removals.



Refuge Calhoun
Year 19/50


TOTAL ACREAGE PLANTED:
Marsh and aquatic
Hedgerows, cover patches Food strips, food patches Forest plantings
$\qquad$
$\qquad$

## Form NR-8

(Revised)

## CULTIVATED CROPS



## DIRECTIONS FOR PREPARING FORM NR-8 CULTIVATED CROPS

Cultivated Crops Report Form NR-8 should be prepared on a calendar-year basis for all crops harvested or utilized during the calendar year and submitted with the December 31 refuge report.

Permittee - List each permittee separately. If lands of the refuge are farmed by refuge personnel or hired labor, this should be indicated in the Permittee column.

Permit No. - List the number of the Special Use Permit issued to the individual.

Use or Location - The Unit No. or name specified in the Economic Use Plan should be listed in this column.

Crops Grown - A separate line of the form should be used for each crop grown by each permittee or by refuge personnel. This is important, since if each crop grown by each operator is not specifically enumerated, the report will be of no value for statistical purposes.

Average Yield per Acre - It is important that the average yield per acre of each crop grown by each operator should be shown.

Permittee's Share - Only the number of acres harvested or utilized by the permittee for his own benefit should be shown under the Acres column, and only the number of bushels of farm crops harvested by the permittee for himself should be shown under the Bushels Harvested column. It is requested that all crops harvested be reduced to bushels wherever possible, or, as in the case with the harvesting of seed such as that of sweet clover, alfalfa, bromegrass, etc., the total harvested crop in pounds may be shown. Timothy, alfalfa, or other hay harvested by the permittee should be shown on Form NR-10 and should not be shown in the Permittee's Share column.

Government's Share or Return - Harvested - Show the number of bushels harvested for the Government and the acreage from which this share is harvested, both for grain raised by refuge personnel and by permittees. Unharvested - show the exact number of acres of crops allowed to remain unharvested as food and cover for wildife. An estimate of the number of bushels of grain that is available for the wildlife in such unharvested crops should be shown in the Bushels column.

Compensatory Services, or Cash Revenue - Show other services received by the Government in cooperative farming activities, the number of acres of food strips planted for wildlife, the amount of wildlife crops not otherwise reported that are planted by cooperators for the Service, or the cultivation of wildife plantations. If the permit is on a fee basis, the total cash revenue received by the Service.
(April 1946)
COLLECTI , AND RECEIPTS OF PLANTING STOC.
(Seeds, rootstocks, trees, shrubs)
Refuge....Calhoun
Year 19A. 50


## Refuge...calhoun

 $\cdots$ $\qquad$ Year 194.50.

Forin NR-11 TIMBER REMOQAL
Refuge
Galhoun $\qquad$ Year $19 \$ 50$


Total acreage cut over. $\qquad$

## Total income.

$\qquad$
No. of units removed B. F...
Method of slash disposal $\qquad$
Cords
Ties.

