MR. SALYER	SECTION OF HABITAT IMPROVEMENTS
MR. KRUMMES	A- A
MR. DUMONT	176
MISS BAUM	
CTION OF OPERATIONS:	COCHTAN OF TAND MANACINDAR
	SECTION OF LAND MANAGEMENTS
MR. BALL	MR . ACKERKNECHT
MR. REGAN	
DR. MORLEY	
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	NARATIVE REPORT
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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. Rainfall 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
October	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
			1949 To	otal 10.87
			1950 Te	otal 6.24

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
	1950	15.4	14.0	1.4
October	1949	15.5	14.4	1.1
November	1950 1949	15.4	14.6	.8
	1950	15.1	14.5	.6
December	1949	15.2	14.4	.8
	1950	15.1	14.3	.8

Maximum monthly variation in 1950 was 1.4, 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 all 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 increasing 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 caught 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. Hawks are about the same as last year. Redtailed 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	A	cres	Permittee	-	ovt. 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, no	ot through	yet	
Robert La Marsh	111	6	beans,	not through	yet	
Harry G.Bimslager	160	80	beans &	corn, not	through	gh yet
Total pe	ermittees	sha	are cor	1 855	180	left-field
Total pe	rmittees	5 5	hare bes	ns 143.49	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 picnicking 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 checks.

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.

Duck kill checks are shown below:

Batchtown Area

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
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)

No.	hunters in area						197
No.	hunters checked	1 .					197
	ducks checked .						
	bag per hunter.						
	imated total kil						

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.

Superintendent of Refuges

January 10, 1951

Approved January 12, 1951

(Date)

Acting Regional Director

Refuge Calhoun Months of September to December, , 1950

	(1) Species	First (2			entration	Last			(5) Produced	(6) Total
	Common Name	Mumber	Date	Number	Date	Number	Date	Broods Seen	Estimated Total	Estimated for period
ī.	Swans:	of the little	Dave	2 2 2 2 2 2	Dave	Number	Days	Deetr	10001	
	Whistling swan	Estimate sentativ	d number a breeddi	of young p	roduced bas Brood count	d on obser s should be	made on	d actual	counts on re	pre- egating
ı.	Geese: Canada goose Cackling goose	berred.	10/9	200	11/12	during the	12/1	ncerned to	the report	250
	Brant White-fronted goose	The Dream	0000 0 17000		Annua bro					
	Snow goose	10	10/9	2,000	11/12	2,000	12/1	erval of	the me.	2,500
	Blue goose	ben 10g	10/9	2,000	11/12	2,000	12/1	resident	species.	2,500
I.	Ducks:	The fire	t reinge	record for	ha apacta	during th	9 800 BOX 0	speamed :	to the repor	ting
	Mallard	25	9/13	136,000	11/19	99,000	12/1			187,600
	Black duck	100	10/6	1,000	11/12	200	12/1	PETET SEC	nous mone	2,000
	Cadwall	25	10/9	200	11/12	200	11/12	ting garage	rung esure	500
	Baldpate Pintail	500	9/20	2,000	11/6	2,000	11/29			3,000
	Green-winged teal	20 150	9/20	10,000	11/12	250 100	12/1			15,000
	Blue-winged teal	500	8/23	6,000	10/9	50	11/12			10,000
(Cinnamon teal Shoveller	300	0/20	0,000	10/3	Reported by	11/12	s. Payle		10,000
3	Wood duck Redhead	2,000	8/23	2,000	8/23	25	11/12			2,500
	Ring-necked duck		20/2	50	20/2	50	306		-	100
	Canvas-back Scaup	50 200	12/1	5,000	12/1	100	12/1	de senson		10,000
	Golden-eye	100	12/1	100	12/1	100	12/1			150
	Buffle-head	Prood cou	/-	100	/-	200	/-	1		200
	Ruddy duck	25	10/16	100	11/3	100	11/3	a since of	O STABBLE !	150
٧.	Coot;	2,000	10/9	7,000	10/16	150	11/19		367,250	9,000

3-1750 (over) (Sept.1950) Interior - Duplicating Section, Washington, D.C. 82449

Form NR-1

(Sept.1950) Interior - Duplicating Section, Washington, D.C. 52449

FORM NR-1

3-1750

Dates waterfowl counts made	le			Tot	al waterfowl u	sage during peri	iod 237,2	50
Percent of waterfowl area	covered _	10/3	7,000	Pes	k waterfowl nu	mbers	167,250	9,000
Dates brood counts made _		30'00	700	_ Are	as used by cor	ncentrations Swar	and Gilbert Le	kes
Percent of area covered in	brood co	unts		70/2				
Total production:	200	12/1	5,000	Pri	ncipal nesting	g areas this seas	son	10,000
Ducks	s'000	8/23	E'000	8/23	39	31/12		2,500
Coots	200	0/28	6,000		Reported by	Edward A. Day	vis	- 10°000
Pinteil Groun-singed tool	50	8/20	INS	TRUCTIONS	200	TEAT		1,000
(1) Species:	reporti	ng period	should be	added in		ecies occurring o aces. Special a ficance.		
(2) First seen:						season concerned apply to reside		ing
(3) Peak concentration:	The gre	atest numb	per of the	species p	resent in a li	mited interval o	of time.	2,000
(4) Last seen:	The las		record for	the speci	es during the	season concerned	l in the reporti	ng
(5) Young produced:	sentati	ve breedir	ng areas.	Brood cou	mts should be	vations and actual made on two or m basis in fact sh	nore areas aggre	gating
(6) Total:	may or	may not be		that use		efuge during the ncentrations, dep		

Note: Only columns applicable to the reporting period should be used. It is desirable that the Summaries receive careful attention since these a are necessarily based on an Alysis of the rest of the interest of the second statement of the second a are necessarily based on an lysis of the rest of the form. Refuge Batchtown Months of September to December 19 50

(1) Species		(2) First Seen			(3) Peak Concentration) Seen	Young P		(6) Total
	Common Name	Mumber	Date	Number	Date	Number	Date	Broods Seen	Estimated Total	for period
I.	Swans: Whistling swan	Entimate sentati	d number a breedi	of young pr	pduced bas rood count	ed on obser	rations ar	d actual c	ourte on restrain	egating
II.	Geese: Canada goose Cackling goose Brant	100	10/27	econg 100	10/27	qm. 100 pe	10/27	ncerned in	the repor	100
	White-fronted goose Snow goose Blue goose	The gree	and the property of the proper	er of the s	pectes pre	sent in a l	apply to	restdent	apeares.	
III.	Ducks:	Bia fire	te rafuge	record for	Me specie	during th	season o		The state of the s	
	Mallard Black duck	1,000	9/11	20,000	11/2	3,000	11/17			20,000
	Cadwall	20	10/9	100	11/2	100	11/17	ering on r	efuge durin atten shoul	1,000
	Baldpate	200	10/9	4,000	11/2	300	11/17		Marine Arrest	4,000
	Pintail Green-winged teal	100	10/9	50,000	11/2	3,000	11/17			50,000
	Blue-winged teal	300	11/2	500	11/17	500	11/17			500
	Cinnamon teal Shoveller	3,000	10/9	3,000	10/9	100 p	11/2	- Edamed	a, Bavle	3,000
	Wood duck Redhead	500	8/23	500	8/23	10	11/14			500
	Ring-necked duck				1					
	Scaup	200	11/2	200	11/14	50	11/17	ON DERISOR	The first transfer of	200
	Golden-eye Buffle-head	preed eou	rate				/			200
	Ruddy duck				Aresa	used by co	honesette	1 11	neto mest	g stay
IV.	Coot:	500	10/9	5,000	11/2	100	11/14	4.0	00 -001-00	5,000

3-1750 (over) (Sept.1950) Interior - Duplicating Section, Washington, D.C. 82449

Form NR-1

(neberrades)			DON'T TYPE OWNERS
	Washington.		CIRCLE DIEC
Summing			SUMMARIES

2 21100									Frank AFR 3
Dates waterfowl counts made	B	-	-	Tota	al waterfowl	usage duri	ng period	79,400	
Percent of waterfowl area	covered	30/9	8,000	Peal	waterfowl n	umbers	79,4	100	5,000
Dates brood counts made			had to be	Area	used by con	ncentration	ns Bate	chtown close	ed area
Percent of area covered in	brood co	ounts							
Total production:	\$00			Prir	cipal nesting	g areas th	is season		500
Geese	200					life de			
Ducks	900			6/22	30	22/24			500
Coots	2,000				Reported by	У	Edward A	. Davis	21000
Parisal Angel Seal	700	2000	INS	TRUCTIONS	900	*****			002000
(2) First seen:	given t	st refuge	record for	ocal and l	ppropriate spational sign: les during the	ificance.	oncerned in	n the repor	20,000
(3) Peak concentration:	The gre	eatest num	ber of the	species pr	resent in a 1:	imited int	erval of to	Lme.	
(4) Last seen:	The las		record for	the specie	es during the	season con	ncerned in	the report	ing 700
(5) Young produced:	sentati	ve breedi	ng areas.	Brood cour	ased on obser- nts should be ses having no	made on t	wo or more	areas aggr	egating
(6) Total:	may or	may not b		that used	using the relation of the real for peak con				

Note: Only columns applicable to the reporting period should be used. It is desirable that the Summaries receive careful attention since these a are necessarily based on an Alysis of the rest of the form.

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

MIGRATORY BIRDS (Other than waterfowl)

Refuge Calhoun

Months of September to December, 195.0

(1) Species	First	2) Seen	Peak Nu			4) Seen		(5) Productio	n	(6) Total
Common Name	Number	Date	Number	Date	Number	Date	Number Colonies	Total # Nests_	Total Young	Estimated Number
I. Water and Marsh Birds: Blue heron Egrets Cormorants	150 100 20	8/23 8/14 10/1	150 800 500	8/23 8/23 11/4	1 10 3	12/1 11/4 11/20				
I. Shorebirds, Gulls and Terns:	neitiba i neitiba i neitiba beineg s	list, 193 sto In reporting	Chack" "Less" uring the	amor o tree d o minge d o minge d		t comma de dereneg	period on bleath	r oau lebro lebro	:aetoe	a (a)
Gulls Killdeer Wilson snipe	25 50 10	9/11 9/11 9/11	1000 400 50	12/1 10/16 11/2	1000 10 12	12/1 12/1 11/20	Somos:	langua (
Page of Corner)	00000	prior soci	en edd re	setorga	est you	STORES OF	nter jand		ret Seen	
	in lawns	ni bellu	L a na 1	interior no	ongo eta	to tedan	: Photagra	ont is	reduck so	
	Lontson	NO MONAGE	our gate	nb awineq		Diagos a	What Ind	only	ict Seen:	4 (4)
	Inuton 5	is shorten	riendo no	beend be	aborg as	002 10 38	iona buju	Enta	nottanto	4 (6)
. herrome into	2. 2/12 AN	and since	n såt ma	(over)	a 1113 To	tedesc I	-01 b=/s	S. Estatos	Legal and	er (d)

	(1)	(2)	(3)		(5)	(6)
III.	Doves and Pigeons: Mourning dove White-winged dove	of, sa	NY HIRDS waterfowl) Months of Lingburg	MANDIM (MANDIM)	MALES	Orn NR-IA Nov. 1945)
	(6) (6)	Day of	(4) Lost See	en Peak Numb	(2)	(1) Species
IV.	Predaceous Birds: Golden eagle	ned nedavi	Date Humbur	nedmil eand	Today (Conston Ma
	Duck hawk Horned owl Magpie			ORE ST	n one :abril da	Land Drag retail
	Raven	here all year a	round	900 B)	04 July 1	September 2
				Reported	l 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 (Gavilformes to Ciconiiformes and Gruilformes)

II. Shorebirds, Gulls and Terns (Charadriiformes)

III. Doves and Pigeons (Columbiformes)

IV. <u>Predaceous Birds</u> (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.

Interior-Duplicating Section, Washington, D. C.

82362

Refuge_ Months of September to December Calhoun (3) (4) (1) (2) (5) (6) (7) Young Produced Sex Ratio Species Density Removals Total Remarks Number broods obs'v'd. Estimated Total For Restocking
For
Research Estimated Hunting Pertinent information not number Acres Cover types, total specifically requested. using per List introductions here. Common Name acreage of habitat Bird Percentage Refuge Nothing to report under this.

INSTRUCTIONS

Form NR-2 - UPLAND GAME BIRDS.*

-(1) SPECIES:	Use	correct	common	name.
1-) OT MOTING	000	0027000	- Common	

(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.

Year 194 50 Calhoun Refuge (3) (1) (2) (4) (5) (6) (7) (8) Young Species Density Removals Introductions Losses Estimated Sex Ratio Produced Total Refuge Predation Cover types, total For Research Hunting For Restocking Population Common Name Disease Acreage of Habitat Winter Number Number Source as of Dec. 31 Percentage Sold Nothing to report under this.

INSTRUCTIONS

Form NR-3 - BIG 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 Louisiana 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: Indicate total number in each category removed during the year.
- (5) LOSSES: On the basis of known records or reliable estimates indicate total losses in each category during the year.
- (6) INTRODUCTIONS: Indicate the number and refuge or agency from which stock was secured.
- (7) TOTAL REFUGE
 POPULATION: 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 194/50

Botulism	Lead Poisoning or other Disease
Period of outbreak	Kind of disease
Period of heaviest losses	Species affected
Losses: Actual Count Estimated (a) Waterfowl (b) Shorebirds (c) Other	Number Affected Species Actual Count Estimated
Number Hospitalized No. Recovered % Recovered (a) Waterfowl (b) Shorebirds	Number Recovered
Areas affected (location and approximate acreage)	Source of infection
Water conditions (average depth of water in sickness areas, reflooding of exposed flats, etc.	Food conditions
Condition of vegetation and invertebrate life	Remarks None observed as yet.
Remarks	

Refuge Calhoun Year 19/50

	STAR BULL	Sport F	ishing	Commercia	l Fishing	Rest	ocking	Number re-
Species	Relative Abundance	Man days Fishing	Number Taken	No. of Permits	Pounds Taken	Number Stocked	Area Stocked	moved for Restocking
Nothi	ng to report	under this.						

REMARKS:

· Form NR-7

PLANTINGS (Mash - Aquatic - Upland)

	Refuge_Ca	lhoun		Year 19/50						
Species	Location of Area Planted	Rate of Seeding or Planting	Amount Planted (Acres or Yards of Shoreline)	Amount & Nature of Propagules	Date of Plant- ing	Survival	Cause of	Remarks		
	Nothing	to report	under this.							

TOTAL ACREAGE PLANTED:

Marsh and aquatic	
Hedgerows, cover	patches
Food strips, food	patches
Forest plantings_	

180

...47.83

Permittee	9 10	Unit	0 00 00	Ave.		ttee's	1 8				e or Return
(If farmed by refuge personnel, so indicate)	Permit No.	or Loca- tion	Crops Grown	Yield per Acre	A	Bu.Har- vested	Harve Acres		Acres	Bu.	Compensatory Services, or Cash Revenue
John Sherman W. F. Duncan John Held August Toppmeyer Henry C. Weigel Joe Navarre Robert La Marsh Harry G. Bimslager	113 110 159 158 112 114 111 160	30 acres 6 acres 10 acres 20 acres 6 acres 6 acres 80 acres	corn corn beans beans corn corn beans beans corn	16 30 4 16 25 not the not the	ough ;	ret	of absorting on c	7.83 40 125	this spenig ps r	120 60	HOUSE FORM NE-8
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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.

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

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

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

<u>Crops Grown</u> - 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. <u>Unharvested</u> - show the exact number of acres of crops allowed to remain unharvested as food and cover for wildlife. An estimate of the number of bushels of grain that is available for the wildlife in such unharvested crops should be shown in the <u>Bushels</u> 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 wildlife plantations. If the permit is on a fee basis, the total cash revenue received by the Service.

3-1759 Form NR-9 (April 1946)

COLLECTIC AND RECEIPTS OF PLANTING STOC. (Seeds, rootstocks, trees, shrubs)

Refuge Calhoun Year 19450

		Coll	ections	Receipts				
Species	Amount	Date or Period or Collection	Method	Unit Cost	Amount	Source	Total Amounts on Hand	Amount Surplus
	Nothing to	report under thi	s.					
								Et

3-1	760
Form	NR-10
(April	1946)

HAYING AND GRAZING

		1
Refuge Calhoun	Vear	19450
Ver age Os Lucius	.1001	TOW. T. S.

Permittee	Permit No.	Unit or Location	Actual Acreage Utilized	Use	Tons of Hay Har- vested	Period of From -	Use To	Rate	Total Income	Remarks
	Nothing	to report								

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Acreage	grazed	Animal use months	Total income Grazing
Acreage	cut for hay	Tons of hay cut	Total income Haying

3-1	761	
Form	NR-1	1

TIMBER REMOVAL

Permittee	Permit No.	Unit or Location	Acreage	No. of Units Expressed in B. F., ties, etc.	Rate of Charge	Total Income	Reservations and/or Diameter Limits	Species Cu
	Nothing to re	port under	this.					
			×					

No. of units removed B. F. Method of slash disposal

Cords.....