#### 1970 PRE\_SEASON MOURNING DOVE BANDING

## CLARENCE CANNON NATIONAL WILDLIFE REFUGE ANNADA, MISSOURI

 $\mathtt{BY}$ 

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SEPTEMBER \_ 1970

#### BANDING PERIOD

June 10 - August 6	300
August 17 - August 24	54
TOTAL	354

#### AGE AND SEX OF BANDED DOVES

	M_YHA	$\underline{\text{AHY}}\underline{\text{F}}$	HYU	HY_F	TOTAL
Mourning Doves	57	33	262	2	354

Adults Banded - 25 per cent Immatures Banded - 75 per cent

#### TRAPS

Twenty-six (26) 1 x 2 inch weld-wire walk-in traps were utilized. Bottoms were installed in fourteen (14) of these traps.

#### BAIT

Millet was used in all traps. Rains caused the millet to germinate, so frequent cleaning was necessary.

#### RETURNS

The following doves were re-trapped on the refuge during the banding period:

AGE_SEX WHEN BANDED	DATE BANDED
AHY M	7_66
M YHA	7_66
AHY M	6_67
AHY M	6_68

#### COST

The cost of banding the first 300 mourning doves was \$1.64 per bird.

#### OTHER BIRDS AND MAMMALS TRAPPED

#### OTHER BIRDS

Sparrow Hawk
Eastern Meadowlark
Bobwhite Quail
Common Grackle
Red\_wing Blackbird
Brown\_headed Cowbird
Horned Lark
Blue Jay
Brown Thrasher
Cardinal
Starling
Dickcissel
House Sparrow

#### MAMMALS

Opossum Striped Skunk

#### LOCATION OF TRAPS

Traps were placed along the roads and edges of fields. Frequently, the traps were moved to follow the birds.

#### CHECKING THE TRAPS

Traps were checked between 8:00 am and 9:30 am and again between 7:00 pm and 8:00 pm.

#### EFFECTS OF MID\_SUMMER WHEAT HARVEST

The mourning dove population decreased in July. Whether this was due to the neighboring wheat harvests cannot be ascertained. Weather appeared to be a more important factor.

#### DISEASE

None reported.

#### PREDATION

Predation was low compared to 1969. Only five or six known birds were lost, mainly due to traps not checked. Red fox, stripped skunk, and the domestic cat were the most common culprits.

#### RETRAPS

In general, a steady population turn-over occurred from June through mid-August. No birds banded in June were re-trapped in August.

#### EFFECTS OF WEATHER

The effects of weather on dove banding were depicted on the overlays. In general, dove banding increased after a rain. This effect seldom lasted more than two days. Dove banding increased with lower temperatures and decreased with higher daily temperatures.

#### POPULATION

Peak summer population occurred August 7, with an estimated 600 to 650 doves present.

It is estimated that 200 to 250 doves were produced on the refuge. Banding success directly correlated with the dove population throughout the summer.

#### DATA

The following tables list all data used in this report.

#### MOURNING DOVE REPEATS

#### CLARENCE CANNON NATIONAL WILDLIFE REFUGE

#### JUNE - SEPTEMBER, 1970

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REPEAT			
DATE	BAND NUMBER	AGE AND SEX	BANDED DATE
6_15_70	1183 - 40504	AHY M	6_12_70
6_15_70	1183 - 40507	AHY M	6_14_70
6_15_70	1183 - 40504	AHY M	6_12_70
6_16_70	1183 - 40504	AHY M	6_12_70
6_17_70	1183 - 40526	HY U	6_16_70
6_18_70	1183 - 40518	HY U	6_16_70
6-19-70	1183 40535	HY U	6_18_70
6_20_70	1183 – 40535	HY U	6_18_70
6_20_70	1183 - 40531	HY U	6_17_70
6_20_70	1183 - 40537	HY U	6_18_70
6_20_70	1183 - 40550	HY U	6_20_70
6_20_70	1183 - 40518	HY U	6_16_70
6_21_70	1183 - 40549	HY U	6_20_70
6_22_70	1183 - 40547	HY U	6_20_70
6_22_70	1183 - 40541	HY U	6_19_70
6_22_70	1183 - 40518	HY U	6_16_70
6-23-70	1183 - 40528	U YH M YHA	6_16_70
6_25_70	1183 - 40558 1183 - 40567	AHY M HY U	, 6_21_70 6_22_70
6-25-70 6-26-70	1183 - 40583	HY U	6_24_70
6_29_70	1183 - 40586	M YHA	6_25_70
6-29-70	1183 - 40542	HY U	6_19_70
6_29_70	1183 - 40609	HY U	6-28-70
6_30_70	1183 - 40549	HY U	6_20_70
6_30_70	1183 - 40557	AHY M	6_21_70
6_30_70	1183 - 40610	AHY M	6_28_70
7-1-70	1183 - 40564	HY U	6_22_70
7-1-70	1183 – 40588	HY U	6_25_70
7-1-70	1183 - 40609	HY U	6_28_70
7-1-70	1183 - 40584	HY U	6_24_70
7-4-70	1183 - 40579	AHY M	6_24_70
7_8_70	1183 - 40641	AHY F	7-7-70
7_10_70	1183 - 40610	AHY M	6_28_70 6_16_70
7-11-70	1183 - 40517	HY U AHY M	6_24_70
7_16_70	1183 - 40579	M YHA M	6_24_70
7-17-70	1183 - 40579 1183 - 40579	AHY M	6_24_70
7-19-70 7-19-70	1183 - 40634	HY U	7-3-70
7_28_70	1183 - 40716	HY U	7_27_70
8-3-70	1183 - 40702	HY U	7-23-70
8_3_70	1183 - 40644	M YHA	7-7-70
8-4-70	1183 - 40773	HY U	8_4_70
8_4_70	1183 - 40781	HY U	8_4_70
8_5_70	1183 - 40691	HY U	7-21-70
.8_5_70	1183 - 40736	HY U	8_1_70

#### MOURNING DOVE REPEATS

#### CLARENCE CANNON NATIONAL WILDLIFE REFUGE

#### JUNE - SEPTEMBER, 1970

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13. (9) 1 39	M 1	111	1 I M

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DATE	BAND NUMBER	AGE AND SEX	BANDED DATE
8_5_70	1183 - 40629	AHY M	7_2_70
8_5_70	1183 - 40749	HY U	8_2_70
8-5-70	1183 - 40734	HY U	8_1_70

TABLE I.

SUMMARY OF DAILY MOURNING DOVES BANDED

CLARENCE CANNON NATIONAL WILDLIFE REFUGE

JUNE 10, 1970 - AUGUST 6, 1970

DATE	DOVES BANDED	DOVE REPEATS	DATE	DOVES BANDED	DOVE REPEATS
6-10 6-11 6-12 6-13 6-14 6-15 6-16 6-17 6-18 6-19 6-21 6-21 6-21 6-25 6-24 6-25 6-27 6-28 6-29 6-30	121255356640176165564	000003111151310210033	7-10 7-11 7-12 7-13 7-14 7-15 7-16 7-17 7-18 7-19 7-20 7-21 7-22 7-23 7-24 7-25 7-26 7-27 <b>2</b> -28 7-29 7-30 7-31	7022084103245010253125	1 1 0 0 0 0 0 1 0 2 0 0 0 0 0 0 0 0 0 0
7-1 7-2 7-3 7-4 7-5 7-6 7-7 7-8 7-9	4 6 3 2 1 3 4 3 4	4 0 0 1 0 0 0 0		9 12 22 22 5 1 * ta reached. ds banded tl	0 0 3 2 5 No more

TABLE II.

# MOURNING DOVES COUNTED ON WEEKLY WILDLIFE CENSUS CLARENCE CANNON NATIONAL WILDLIFE REFUGE JUNE 11, 1970 - AUGUST 7, 1970

DATE OF CENSUS	DOVES COUNTED
June 11	50
June 17	80
June 24	49
July 1	57
July 8	28
July 16	45
July 21	43
July 29	37
August 7	138
August 16	66

#### TABLE III.

### TEMPERATURES AND RAINFALL AMOUNTS CLARENCE CANNON NATIONAL WILDLIFE REFUGE

#### DURING JUNE - 1970

	TEMPER	LATURE	
DATE	MINIMUM	MUMIXAM	INCHES_RAINFAIL
6-1 6-2 6-3 6-4 6-5 6-6 6-7 6-8 6-9 6-10 6-11 6-12 6-13 6-14 6-15 6-16 6-17 6-18 6-19 6-20 6-21 6-22 6-23 6-21 6-25 6-26 6-27 6-28 6-29 6-30	63 60 548 55 55 56 66 67 72 74 72 	72 67 60 67 76 87 89 88 -91 89 88 -91 89 88 88 88 98 89 89 89 89 89 89 89 89	0 2.50 0.18 0.04 0.47 0 0 0 0 Trace 0.89 0 0.96 0.06 0.08 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Low\_51 High\_96

Precipitation\_5.42 inches

TABLE IV.

#### TEMPERATURES AND RAINFALL AMOUNTS

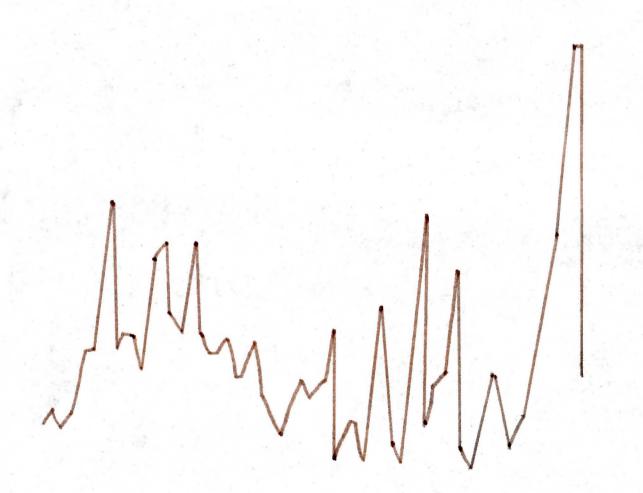
#### CLARENCE CANNON NATIONAL WILDLIFE REFUGE

DURING JULY - 1970

DATE	TEMPER MINIMUM	RATURE MAXIMUM	INCHES_RAINFAIL
7-1- 7-2 7-3 7-4 7-5 7-6 7-7 7-10 7-11 7-12 7-13 7-14 7-17 7-18 7-19 7-21 7-21 7-22 7-23 7-24 7-27 7-28 7-29 7-29 7-20 7-20 7-20 7-20 7-20 7-20 7-20 7-20	72   50 65 77 62 60 63 -62 80 68 56 59 -68 62 55 57 66 68 70 71 78	98 100 86 89 91 86 87 92 94 99 85 87 90 93 92 72 80 81 80 90 94 93 94 100 96	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
7-31	76	103	- <i>t</i>

Low\_50 High\_103

Precipitation - 1.03 inches



Refuge Dove Population





Daily Maximum Temperatures.

Daily Minimum Temperatures .



