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REPRINTS of various articles are still available. Reprints of the Empidonax Guide by Bordner will be mailed to anyone for the cost of postage. Contact the editor for further details.

PHOTO CONTEST

When we announced that the first of the four prize-winning photos would appear in this issue, we miscalculated a bit. Since the deadline for this issue (nicely kept by all) was December 15th, 1971, and the deadline for the photo contest was December 31, 1971, we couldn't very well publish a winning picture in the February 1972 issue.

The first of the four pictures planned for publication will therefore appear in the May 1972 issue.

Editor

NINE YEARS OF BIRD BANDING AT FOUR AREAS IN NEW JERSEY:

## IV. CORVIDAE AND PARIDAE

By Raymond E. Kerlin, William C. Carter, Oscar Sussman, and Martin Goldfield

Birds of the Families Corvidae and Paridae were captured during a nine year period at four areas in New Jersey (Sussman et al 1971). The areas are known as Great Swamp, Forked River, Oceanville, and Estell Manor.

Bands were placed on 1,369 birds of Family Corvidae and 1,713 birds of Family Paridae. The only member of Corvidae was Blue Jay. The most frequently banded bird of the Paridae was Carolina Chickadee. (Table I)

A record was maintained for each bird which repeated or returned. These records were used to prepare tables showing the number of individuals of each species captured each year. The tables were expanded to show the number of those individuals recaptured in subsequent years. For this purpose, any bird was counted only one time in any calendar year, although many birds were actually captured several times per year.

## BLUE JAY:

Blue Jays were captured at Great Swamp (1961-1968), Forked River (1961-1968), Oceanville (1961-1968), and Estell Manor (1960-1968). At Great Swamp, the fewest individuals captured in any calendar year were five in 1968 when very little netting was done at that area. During the years of more active netting, the number of individuals handled varied from 25 in 1967 through 162 in 1963. (Table II).



At Forked River, ten individuals were captured in 1968 when very little netting was done in that area. During the years of more active netting, the number of individuals handled at Forked River varied from 24 in 1961 through 119 in 1967 (Table III).

The number of individuals captured at Oceanville varied from 23 in 1961 through 64 in 1963 (Table IV).

At Estell Manor, the number of individuals captured per calendar year varied from three in 1960 and 1961 through 41 in 1964 (Table V).

The Longevity records established in these populations of Blue Jays were: Great Swamp two years, Forked River six years, Oceanville six years, and Estell Manor four years.

#### BLACK-CAPPED CHICKADEE:

Black-capped Chickadees were captured at Great Swamp (1961-1965). The number of individuals captured at Great Swamp per calendar year varied from eighteen in 1965 through 80 in 1962 (Table VI).

The longevity records established in this population of Black-capped Chickadees was two years.

#### CAROLINA CHICKADEE:

Carolina Chickadees were captured at Forked River (1961-1968), Oceanville (1961-1968), and Estell Manor (1960-1967). None were captured during netting at Great Swamp (1961-1968).

The number of individuals captured at Forked River per calendar year varied from twelve in 1968 through 48 in 1961 (Table VII)

At Oceanville, the number of individuals varied from seventeen in 1964 through 50 in 1961 (Table VIII).

The number of individuals captured at Estell Manor varied from fifteen in 1960 through 65 in 1963 (Table IX).

The longevity records established in these populations of Carolina Chickadees were: Forked River two years, Oceanville two years, and Estell Manor three years.

#### TUFTED TITMOUSE:

Tufted Titmice were captured at Great Swamp (1961-1968), Forked River (1961-1968), Oceanville (1961-1968), and Estell Manor (1960-1967).

At Great Swamp, only four individuals were captured in 1968 when very little netting was done at that area. During the years of more active netting, the number of individuals handled per calendar year varied from twelve in 1961 through 74 in 1963 (Table X).

At Forked River, three individuals were captured in 1968 when very little netting was done in that area. During the years of more active netting, the number of individuals handled at Forked River varied from nine in 1962 through 26 in 1966. (Table XI).

The number of individuals captured at Oceanville varied from 5 in 1964 through 22 in 1963 (Table XII).

At Estell Manor, the number of individuals varied from eighteen in 1965 through 79 in 1963 (Table XIII).

The longevity records established in these populations of Tufted Titmice were: Great Swamp three years, Forked River one year, Oceanville two years, and Estell Manor three years.

TETRAONIDAE, PHASIANIDAE, SCOLOPACIDAE, COLUMBIDAE, TROCHILLIDAE AND BOMBYCILLIDAE. Birds of the above named Families were captured during a nine-year period at four areas in New Jersey.

#### TETRAONIDAE:

The only species of this family captured during this study was Bonasa umbellus, Ruffed Grouse. Two individuals were banded. Neither repeated or returned. (Table XIV).

#### PHASIANIDAE:

The only species of this family captured during this study was Colinus virginianus, Bobwhite. Eighteen individuals were captured and banded. None repeated or returned (Table XIV)

#### SCOLOPACIDAE:

The only species of this family captured during this study was Philonela minor, American Woodcock. Twenty-five individuals were banded. None repeated or returned (Table XIV).

#### COLUMBIDAE:

The only species of this family captured during this study was Zenaidura macroura, Mourning Dove. Thirteen individuals were banded. None repeated or returned (Table XIV)

#### TROCHILLIDAE:

The only species of this family captured during this study was Archilochus colubris, Ruby-throated Hummingbird. Fourteen individuals were captured. None repeated or returned (Table XIV)

#### BOMBYCILLIDAE:

The only species of this family captured during this study was Bombycilla cedrorum, Cedar Waxwing. Sixty-one individuals were banded. None repeated or returned. (Table XIV)

#### Literature cited:

Sussman, Oscar; Kerlin, Raymond E.; Carter, William C.; Haws, George; Gusciora, Walter R.; and Goldfield, Martin. 1971. Nine Years of Bird Banding at Four Areas in New Jersey. I. Introduction. EBBA NEWS 34(2): 85-88.  
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Corvidae and Paridae Banded at Four Areas in New Jersey

<u>Corvidae</u>	1960	1961	1962	1963	1964	1965	1966	1967	1968	Total
Blue Jay	3	88	162	302	213	113	185	242	61	1369

<u>Paridae</u>	1960	1961	1962	1963	1964	1965	1966	1967	1968	Total
Black-capped Chickadee	0	21	108	58	19	19	23	15	13	276
Carolina Chickadee	15	151	88	132	83	60	78	87	38	732
Tufted Titmouse	23	93	110	162	94	63	89	57	14	705

TABLE I

Returning Characteristics of Blue Jays Captured at Great Swamp(1961-1968)

	Individuals Captured*	Recaptured in:						
		1962	1963	1964	1965	1966	1967	1968
1961	38	1	0	0	0	0	0	0
1962	75	-	0	0	0	0	0	0
1963	162	-	-	2	1	0	0	0
1964	78	-	-	-	3	0	0	0
1965	53	-	-	-	-	0	0	0
1966	39	-	-	-	-	-	1	0
1967	25	-	-	-	-	-	-	0
1968	5	-	-	-	-	-	-	-

\* Includes returns from previous years when applicable

TABLE II

	Individuals Captured*	Recaptured in.....								
		1961	1962	1963	1964	1965	1966	1967	1968	
1961	24		3	2	1	0	0	1	0	
1962	46		-	2	2	1	0	3	0	0 TABLE III.
1963	64		-	-	3	0	1	2	0	0 Returning Charac-
1964	71		-	-	-	2	4	4	0	0 teristics of Blue
1965	36		-	-	-	-	3	2	0	0 Jays Captured at
1966	93		-	-	-	-	-	11	0	0 Forked River.
1967	119		-	-	-	-	-	-	0	0 (1961-1968)
1968	10		-	-	-	-	-	-	-	-
1961	23		4	5	3	0	0	1	0	
1962	29		-	5	5	0	2	0	0	0 TABLE IV.
1963	64		-	-	12	4	2	0	0	0 Returning Charac-
1964	48		-	-	-	4	4	2	1	1 teristics of Blue
1965	28		-	-	-	-	2	2	2	2 Jays captured at
1966	40		-	-	-	-	-	4	1	1 Oceanville.
1967	43		-	-	-	-	-	-	4	4 (1961-1968)
1968	51		-	-	-	-	-	-	-	-
1960	3		0	0	0	0	0	0	0	
1961	3		-	0	0	0	0	0	0	0 TABLE V.
1962	20		-	-	4	2	0	0	0	0 Returning Charac-
1963	27		-	-	-	1	0	1	1	1 teristics of Blue
1964	41		-	-	-	-	1	0	0	0 Jays captured at
1965	14		-	-	-	-	-	0	0	0 Estell Manor.
1966	28		-	-	-	-	-	-	2	2 (1960-1967)
1967	17		-	-	-	-	-	-	-	-
1961	21		0	0	0	0	0	0	0	
1962	80		-	9	1	0	0	0	0	0 TABLE VI.
1963	67		-	-	6	2	2	2	2	2 Returning Characteristics of
1964	26		-	-	-	-	-	-	-	- Black-capped Chickadees cap-
1965	18		-	-	-	-	-	-	-	- tured at Great Swamp(1961-65).
1961	48		1	1	0	0	0	0	0	
1962	45		-	11	0	0	0	0	0	0 TABLE VII.
1963	40		-	-	3	1	0	0	0	0 Returning Charac-
1964	41		-	-	-	2	0	0	0	0 teristics of Caro-
1965	18		-	-	-	-	2	0	0	0 lina Chickadees
1966	33		-	-	-	-	-	-	1	1 captured at Forked
1967	24		-	-	-	-	-	-	-	- 2 River. (1961-1968)
1968	12		-	-	-	-	-	-	-	-
1961	50		3	1	0	0	0	0	0	
1962	31		-	6	0	0	0	0	0	0 TABLE VIII.
1963	49		-	-	1	0	0	0	0	0 Returning Charac-
1964	17		-	-	-	0	0	0	0	0 teristics of Caro-
1965	24		-	-	-	-	2	0	0	0 lina Chickadees
1966	28		-	-	-	-	-	-	4	4 1 captured at Ocean-
1967	29		-	-	-	-	-	-	-	- 3 ville. (1961-1968)
1968	31		-	-	-	-	-	-	-	-

\* Includes returns from previous years when applicable



	Individuals Captured*	Recaptured in.....							
		1961	1962	1963	1964	1965	1966	1967	
1960	15	4	0	0	0	0	0	0	
1961	57	-	3	1	0	0	0	0	TABLE IX.
1962	47	-	-	2	0	0	0	0	Returning Charac-
1963	65	-	-	-	3	1	0	0	teristics of Caro-
1964	31	-	-	-	-	2	1	1	lina Chickadees
1965	23	-	-	-	-	-	2	1	captured at Estell
1966	24	-	-	-	-	-	-	1	Manor(1960-1967)
1967	39	-	-	-	-	-	-	-	
1961	12		2	1	0	0	0	0	
1962	52		-	11	3	1	0	0	0 TABLE X.
1963	74		-	-	21	2	0	0	0 Returning Charac-
1964	57		-	-	-	4	0	0	teristics of Tuf-
1965	34		-	-	-	-	0	0	ted Titmice cap-
1966	26		-	-	-	-	-	1	tured at Great
1967	17		-	-	-	-	-	-	0 Swamp(1961-1968)
1968	4		-	-	-	-	-	-	
1961	18		1	0	0	0	0	0	
1962	9		-	1	0	0	0	0	0 TABLE XI.
1963	15		-	-	0	0	0	0	0 Returning Charac-
1964	13		-	-	-	1	0	0	teristics of Tuf-
1965	12		-	-	-	-	0	0	ted Titmice cap-
1966	26		-	-	-	-	-	0	tured at Forked
1967	14		-	-	-	-	-	-	1 River(1961-1968)
1968	3		-	-	-	-	-	-	
1961	12		2	1	0	0	0	0	
1962	7		-	1	0	0	0	0	0 TABLE XII.
1963	22		-	-	2	0	0	0	0 Returning Charac-
1964	5		-	-	-	0	0	0	teristics of Tuf-
1965	6		-	-	-	-	0	0	ted Titmice cap-
1966	9		-	-	-	-	-	1	tured at Ocean-
1967	7		-	-	-	-	-	-	0 ville(1961-1968)
1968	8		-	-	-	-	-	-	
1960	24	1	1	1	0	0	0	0	
1961	54	-	8	4	0	0	0	0	TABLE XIII.
1962	55	-	-	12	0	0	0	0	Returning Charac-
1963	79	-	-	-	2	0	0	0	teristics of Tuf-
1964	24	-	-	-	-	1	1	0	ted Titmice cap-
1965	18	-	-	-	-	-	1	0	tured at Estell
1966	30	-	-	-	-	-	-	3	Manor(1960-1967)
1967	24	-	-	-	-	-	-	-	

\* Includes returns from previous years when applicable

	1960	1961	1962	1963	1964	1965	1966	1967	1968	Total
<u>Tetraonidae</u>										
Ruffed Grouse	0	0	0	1	0	0	0	1	0	2
<u>Phasianidae</u>										
Bobwhite	0	0	1	10	4	0	0	0	3	18
<u>Scolopacidae</u>										
American Woodcock	0	0	2	6	6	3	4	3	1	25
<u>Columbidae</u>										
Mourning Dove	1	2	1	5	2	0	2	0	0	13
<u>Trochilidae</u>										
Ruby-throated Hummingbird	0	0	9	5	0	0	0	0	0	14
<u>Bombycillidae</u>										
Cedar Waxwing	0	16	3	2	1	3	7	22	7	61

TABLE XIV. Tetraonidae, Phasianidae, Scolopacidae, Columbidae, Trochilidae and Bombycillidae banded at four areas in New Jersey.

--New Jersey State Department of Health, Veterinary Public Health Program, P. O. Box 1540, Trenton, New Jersey 08625.

