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 BIRD RECORDS FOR THE SILETZ/LOGSDEN AREA OF LINCOLN COUNTY THAT ARE NOT GIVEN ELSEWHERE  
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Llewellyn, B. and R. D. Bayer. 1994. Bird records for the Siletz/Logsdan area of Lincoln County that are not given elsewhere. Journal of Oregon Ornithology 2:163-207.

ABSTRACT.--This article includes 609 observations, 531 of which were by Llewellyn. This article is an amalgamation of incidental records for various specific and general areas.

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INTRODUCTION AND AUTHORS' DIVISION OF LABOR

This article includes observations not published elsewhere that were independently made by several observers. Drafts of the results have undergone extensive revision and reorganization during the past 10 years, with the present format emerging in August 1993.

Bob Llewellyn made many or most observations for Chaps. 2 and 4-7. He also commented on various drafts (April 1985, October 1989, February 1990, and August 1993) of material in these

Chapters that had been merged with Floyd Schrock's observations (Schrock and Bayer 1994) prior to July 1993.

Bayer made most of the observations for Chap. 3. He also compiled everyone's field notes into the present format and prepared drafts of several chapters for Llewellyn's comments and for publication.

Bird records for this general area are also included elsewhere in this issue of Journal of Oregon Ornithology.

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Chap. 1. BIRDS ABOVE 2,000 FT ON EUCHRE MOUNTAIN

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1-A. INTRODUCTION AND SHORTCOMINGS

Euchre Mountain (elevation of 2,446 ft [745 m]) is north of the town of Siletz (Fig. 1.1).

There were only three observations and 31 records, all by Floyd Schrock. Nevertheless, they are of interest because few observations have been made above 1,000 ft (305 m) in Lincoln County and because two of the observations give an idea

of some of the probable nesting birds.

Many more high elevation observations with specified habitats and good observation effort are needed in Lincoln County because these few observations suggest that there are fewer species nesting high on Euchre Mountain (Table 1.1) than at lower elevations (e.g., Faxon and Bayer 1991). This is not surprising because the number of breeding species declines in Life Zones at higher elevations in Oregon (Bayer 1993:6).

Chap. 1. Euchre Mountain

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1-B. STUDY AREA AND METHODS

Location: Township 8S, Range 10W, Sections 35 & 36  
 Area Studied: ?  
 Habitat(s) Studied: Unknown  
 Elevation: above 2000 ft (above 610 m)  
 Distance to Coastline: about 8.7 mi (about 14 km).

At unknown sites on the Mountain, Schrock made observations of unknown duration and with unknown effort on the dates given in Table 1.1. These records are best treated as presence data only, not presence/absence data (Bayer 1993:14-15).

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1-C. TABLE AND FIGURE

**Table 1.1.** Birds records above 2,000 ft (610 m) on Euchre Mountain by Floyd Schrock. The three observations were on 4 October 1981, 19 June 1982, and 1 July 1982.

Codes:

- A.=presence on observation day during 1-15th of month.
- .Z=presence on observation day during 16th-end of month.
- ?=species not recorded but there were either no observations or too few observations to tell if the species was absent.

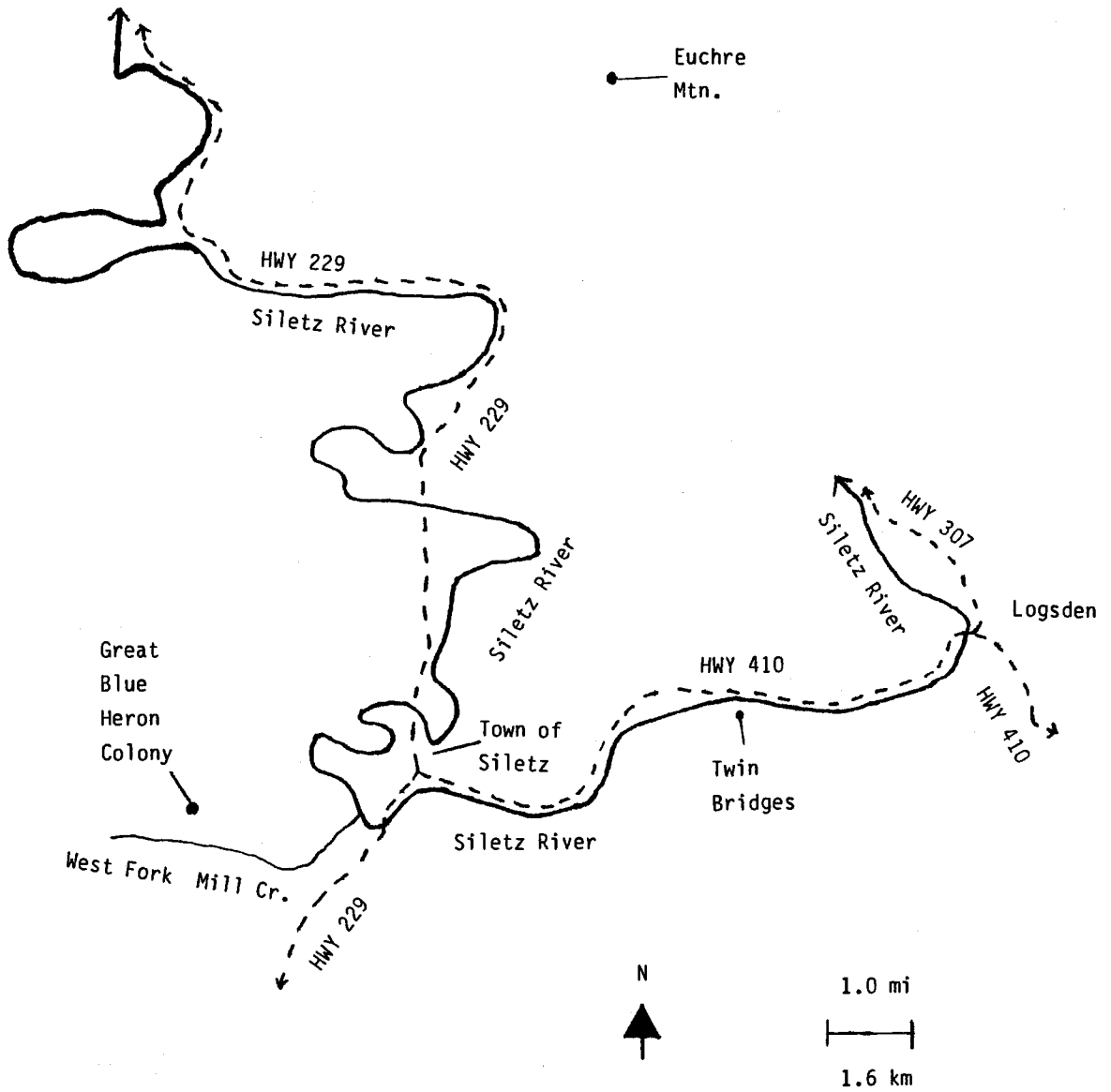
	Months.....											
	Ja	Fb	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
Mountain Quail	?	?	?	?	?	?	A.	?	?	?	?	?
Band-tailed Pigeon	?	?	?	?	?	?	A.	?	?	?	?	?
Rufous Hummingbird	?	?	?	?	?	.Z	A.	?	?	?	?	?
Northern Flicker	?	?	?	?	?	?	A.	?	?	?	?	?
Olive-sided Flycatcher	?	?	?	?	?	.Z	A.	?	?	?	?	?
Tree Swallow	?	?	?	?	?	.Z	A.	?	?	?	?	?
Steller's Jay	?	?	?	?	?	?	A.	?	?	?	?	?
Common Raven	?	?	?	?	?	?	?	?	?	A.	?	?
Bewick's Wren	?	?	?	?	?	.Z	?	?	?	A.	?	?
Winter Wren	?	?	?	?	?	.Z	A.	?	?	?	?	?
Swainson's Thrush	?	?	?	?	?	.Z	A.	?	?	?	?	?
Cedar Waxwing	?	?	?	?	?	?	A.	?	?	?	?	?
Orange-crowned Warbler	?	?	?	?	?	.Z	A.	?	?	?	?	?
Hermit Warbler	?	?	?	?	?	?	A.	?	?	?	?	?
Wilson's Warbler	?	?	?	?	?	.Z	A.	?	?	?	?	?
Rufous-sided Towhee	?	?	?	?	?	.Z	A.	?	?	?	?	?
Song Sparrow	?	?	?	?	?	.Z	A.	?	?	?	?	?
White-crowned Sparrow	?	?	?	?	?	.Z	?	?	?	?	?	?
Dark-eyed Junco	?	?	?	?	?	.Z	A.	?	?	?	?	?
Purple Finch	?	?	?	?	?	?	A.	?	?	?	?	?
No. of Recorded Species	0	0	0	0	0	12	17	0	0	2	0	0

Based on June or July Presence, Possibly Nesting Species=19

Total Observations=3

Total Records=31

Fig. 1.1. Euchre Mountain and other sites near the town of Siletz.



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**Chap. 2. BIRDS NEAR THE TOWN OF SILETZ**  
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**2-A. INTRODUCTION**

This is an amalgamation of records incidentally and independently made by various observers near the town of Siletz (Fig. 1.1).  
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**2-B. STUDY AREA, METHODS, & SHORTCOMINGS**

Location: Township 9S/10S, Range 10W  
 Area Studied: ?  
 Habitat(s) Studied: Unknown  
 Elevation: ? (probably <1000 ft [<305 m])  
 Distance to Coastline: ?.

It is unfortunate that the location of many of these observations is not known precisely. All  
 \*\*\*\*\*

**2-D. TABLES**

**Table 2.1.** Number of Observations and number of Taxa/Observation near the town of Siletz. There was one Observation per day.

were probably within 3 mi (5 km) of the town of Siletz (Fig. 1.1) in the Siletz River Valley. All observations were incidentally made. Further, there were few observations, so there are many shortcomings to these data.  
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**2-C. GENERAL DISCUSSION**

There were a total of 61 observations and 103 records (Tables 2.1 and 2.2). Few taxa were recorded each observation or month (Tables 2.1 and 2.2). Most of the observations were by Floyd Schrock, Darrel Faxon, and Bob Llewellyn (Table 2.3).

Information about individual species is given in the Species Accounts (section 2-E).  
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Codes:  
 N=number of Observations/Month  
 SD=Standard Deviation  
 -=not applicable  
 Yrs=number of years with at least one observation  
 MAX=maximum (maximum of Means given only if N is two or more).

Yr	Taxa/Observation.....														
	January.....			February.....			March.....			April.....			May.....		
	N	Mean	SD Range	N	Mean	SD Range	N	Mean	SD Range	N	Mean	SD Range	N	Mean	SD Range
80	0	-	--	0	-	--	0	-	--	0	-	--	0	-	--
81	0	-	--	0	-	--	0	-	--	0	-	--	0	-	--
82	4	1.3	0.5 1-2	0	-	--	0	-	--	0	-	--	0	-	--
83	0	-	--	0	-	--	0	-	--	0	-	--	0	-	--
84	0	-	--	0	-	--	0	-	--	0	-	--	0	-	--
85	0	-	--	0	-	--	0	-	--	1	1	- 1	0	-	--
86	0	-	--	0	-	--	0	-	--	0	-	--	0	-	--
87	0	-	--	0	-	--	0	-	--	0	-	--	0	-	--
88	0	-	--	1	4	- 4	0	-	--	3	3.7	3.1 1-7	1	8	- 8
89	0	-	--	0	-	--	0	-	--	0	-	--	0	-	--
90	1	2	- 2	0	-	--	0	-	--	0	-	--	2	1.0	0 1
91	1	1	- 1	0	-	--	0	-	--	1	1	- 1	0	-	--
Yrs	3	-	--	1	-	--	0	-	--	3	-	--	2	-	--
SUM	6	-	--	1	-	--	0	-	--	5	-	--	3	-	--
MAX	4	1.3	- 2	1	-	- 4	0	-	--	3	3.7	- 7	2	1.0	- 8

(Table 2.1 continued on next page)

(Table 2.1 continued)

Yr	Taxa/Observation.....														
	June.....			July.....			August.....			September.....			October.....		
	N	Mean	SD Range	N	Mean	SD Range	N	Mean	SD Range	N	Mean	SD Range	N	Mean	SD Range
80	0	-	--	0	-	--	1	1	- 1	0	-	--	0	-	--
81	2	1.0	0 1	1	1	- 1	3	1.0	0 1	0	-	--	1	1	- 1
82	0	-	--	2	1.5	0.7 1-2	1	1	- 1	3	1.0	0 1	2	1.0	0 1
83	0	-	--	0	-	--	0	-	--	0	-	--	0	-	--
84	0	-	--	2	1.0	0 1	0	-	--	0	-	--	1	1	- 1
85	0	-	--	0	-	--	0	-	--	0	-	--	0	-	--
86	0	-	--	0	-	--	0	-	--	0	-	--	0	-	--
87	0	-	--	2	7.0	1.4 6-8	1	7	- 7	2	2.0	1.4 1-3	0	-	--
88	0	-	--	0	-	--	0	-	--	0	-	--	1	1	- 1
89	0	-	--	0	-	--	1	1	- 1	0	-	--	0	-	--
90	0	-	--	0	-	--	0	-	--	1	1	- 1	0	-	--
91	0	-	--	1	1	- 1	1	1	- 1	0	-	--	0	-	--
Yrs	1	-	--	5	-	--	6	-	--	3	-	--	4	-	--
SUM	2	-	--	8	-	--	8	-	--	6	-	--	5	-	--
MAX	2	1.0	- 1	2	7.0	- 8	3	1.0	- 7	3	2.0	- 3	2	1.0	- 1

Yr	Taxa/Observation.....						Total Observations/ Year
	November.....			December.....			
	N	Mean	SD Range	N	Mean	SD Range	
80	0	-	--	0	-	--	1
81	5	1.2	0.4 1-2	2	1.0	0 1	14
82	0	-	--	4	1.0	0 1	16
83	0	-	--	2	1.0	0 1	2
84	0	-	--	0	-	--	3
85	0	-	--	1	1	- 1	2
86	0	-	--	2	1.0	0 1	2
87	0	-	--	1	1	- 1	6
88	0	-	--	0	-	--	6
89	0	-	--	0	-	--	1
90	0	-	--	0	-	--	4
91	0	-	--	0	-	--	4
Yrs	1	-	--	6	-	--	12
SUM	5	-	--	12	-	--	61
MAX	5	1.2	- 2	4	1.0	- 1	16

**Table 2.2.** Total bird species recorded each month and year near the town of Siletz. These data are calculated from Table 2.1 and section 2-E.

Codes:  
 Record=one bird taxon seen or heard during one Observation  
 Monthly Records (calculated from Table 2.1)=  
 (number of Observations) X (Mean Taxa/Obs.),  
 rounded to the nearest whole number  
 Total Records=sum of Monthly Records

Total Taxa=total number of taxa recorded each year  
 Records/Taxon=Total Records for year divided by  
 the total number of taxa noted that year  
 Records/Obs.=Total Records for year divided by the  
 number of Observations from Table 2.1  
 .=zero (".") is used to enhance readability)  
 MAX=maximum  
 #Taxa=total number of taxa seen during all of  
 1980-1991.

	Taxa/Month.....												Total Records@	Total Taxa	Records per...	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			Taxon	Obs.
1980	.	.	.	.	.	.	.	1	.	.	.	.	1	1	1.0	1.0
1981	.	.	.	.	.	1	1	3	.	1	5	2	15	10	1.5	1.1
1982	4	.	.	.	.	.	2	1	1	2	.	2	18	8	2.3	1.1
1983	.	.	.	.	.	.	.	.	.	.	.	1	2	1	2.0	1.0
1984	.	.	.	.	.	.	2	.	.	1	.	.	3	3	1.0	1.0
1985	.	.	.	1	.	.	.	.	.	.	.	1	2	2	1.0	1.0
1986	.	.	.	.	.	.	.	.	.	.	.	1	2	1	2.0	1.0
1987	.	.	.	.	.	.	8	7	4	.	.	1	26	13	2.0	4.3
1988	.	4	.	9	8	.	.	.	.	1	.	.	24	12	2.0	4.0
1989	.	.	.	.	.	.	.	1	.	.	.	.	1	1	1.0	1.0
1990	2	.	.	.	2	.	.	.	1	.	.	.	5	5	1.0	1.3
1991	1	.	.	1	.	.	1	1	.	.	.	.	4	4	1.0	1.0
MAX	4	4	.	9	8	1	8	7	4	2	5	2	26	13	2.3	4.3
#Taxa	7	4	.	11	10	1	13	14	6	5	5	6	-	44	-	-
MAX/#Taxa	0.6	1.0	.	0.8	0.8	1.0	0.6	0.5	0.7	0.4	1.0	0.3	-	0.3	-	-

@ There were a grand total of 103 Records.

**Table 2.3.** Number of observations and records per observer near the town of Siletz. .=zero.

Observer	Observations.....			Records.....		
	1980-	1990-	Total	1980-	1990-	Total
	1989	1991		1989	1991	
Mike Bauman	7	.	7	7	.	7
Darrel Faxon	10	.	10	48	.	48
Anthony Floyd	.	1	1	.	1	1
Herb Jennings	1	.	1	1	.	1
Bob Llewellyn	3	7	10	3	7	10
Roy Lowe	1	.	1	1	.	1
George Miller	2	.	2	2	.	2
Floyd Schrock	27	.	27	31	.	31
Craig Stoltzfus	2	.	2	2	.	2
TOTAL	53	8	61	95	8	103

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2-E. SPECIES ACCOUNTS

Years of occurrence of species near the town of Siletz. These data are calculated from the individual observations, which are not given elsewhere.

Codes:  
 (number)=year in which a taxon was recorded  
 (e.g., 90=1990)  
 ?=species not recorded, so the species may have been absent or it may have been present but overlooked.

Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Great Blue Heron	91	?	?	?	?	?	?	?	?	?	?	?
On 8 January 1991, Llewellyn saw one Great Blue Heron flying near Twin Bridges.												
Cattle Egret	?	?	?	?	?	?	?	?	?	?	81	83
On 25 November 1981, Schrock saw one immature Cattle Egret in the Siletz football field. On 9 & 16 December 1983, Stoltzfus saw five in a barnyard.												
Green-backed Heron	82	?	?	88	?	?	?	?	?	?	?	?
White-fronted Goose	?	?	?	?	?	?	?	?	?	84	?	?
On 8 October 1984, Schrock saw 60-70 White-fronted's fly over.												
Canada Goose	?	?	?	?	?	?	?	?	?	81	?	?
On 6 October 1981, Schrock saw an unspecified number of Canada's fly over in an unspecified direction.												
Turkey Vulture	?	?	?	?	?	?	87	87	?	?	?	?
Black-shouldered Kite	?	?	?	?	?	?	84	82	82	82	?	82
On 26 August 1982, Schrock saw one kite at Milepost 20 along Highway 229. On 26 and 29 December 1982, Schrock saw one kite at Twin Bridges. For the rest of these sightings, only one was reported, but the location was not specified.												
Cooper's Hawk	?	?	?	?	?	?	?	81	?	?	?	?
In mid-August 1981, Schrock saw an adult Cooper's Hawk with two young, but he did not record whether the young were in a nest or fledged.												
No. Bobwhite	?	?	?	?	?	?	?	?	?	?	?	81
In late December 1981, Jennings noted a probable bobwhite; no other details are available.												
California Quail	82	?	?	?	?	?	?	?	?	?	?	?
Greater Yellowlegs	?	?	?	85	?	?	?	?	?	?	?	?
Common Snipe	?	?	?	?	?	?	?	?	87	?	?	?
Caspian Tern	?	?	?	?	?	?	84	81	?	?	?	?
On 7 August 1981, Mike Bauman heard an adult Caspian Tern and its young calling and flying overhead in a thick fog just north of the town of Siletz about 7.5 mi (12.2 km) from the shoreline. On 24 July 1984, Schrock reported that an adult and immature flew over.												
Marbled Murrelet	?	?	?	?	?	?	?	?	87	?	?	?
On 21 September 1987, a recent fledgling murrelet was found alive in the parking lot of a store in Siletz; it was brought to Roy Lowe, USFWS biologist, who identified and released it.												
Mourning Dove	?	?	?	91	?	?	?	?	?	?	?	?
Barn Owl	?	?	?	?	?	81	81,82	81	?	?	?	81,82,85
Western Screech-Owl	?	?	?	?	?	?	82	?	?	?	?	?
Common Nighthawk	?	?	?	?	?	?	91	?	?	?	?	?
Hairy Woodpecker	90	?	?	?	?	?	?	?	?	?	?	?
Pileated Woodpecker	?	?	?	?	?	?	?	89	90	?	?	?
Willow Flycatcher	?	?	?	?	?	?	87	?	?	?	?	?
Tree Swallow	?	?	?	88	88	?	?	87	?	?	?	?
Violet-green Swallow	?	?	?	88	88	?	87	?	?	?	?	?
Cliff Swallow	?	?	?	88	88	?	87	87	?	?	?	?
Barn Swallow	?	?	?	88	88	?	87	87	87	?	?	?

(section 2-E continued on next page)

(Section 2-E continued)

Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Marsh Wren	?	88	?	?	?	?	?	?	?	?	?	?
American Robin	?	88	?	88	88	?	?	87	?	?	?	?
No. Mockingbird	?	?	?	?	?	?	?	?	?	?	?	86
During 15-18 December 1986, Miller saw one mockingbird tapping on the window of his house at Crawford Road, about 5 mi (8 km) north of the town of Siletz and about the same distance east of Depoe Bay; on the 18th, the bird was allowed to fly into his house, where it was captured.												
American Pipit	?	?	?	?	?	?	?	?	?	?	81	?
Cedar Waxwing	?	?	?	?	?	?	?	?	?	82	?	?
On 16 October 1982, Schrock saw about 250 waxwings; this may have been a migration.												
No. Shrike	?	?	?	?	?	?	?	?	?	?	81	?
On 1 November 1981, Schrock saw one Northern Shrike.												
Black-thr. Gray Warbler	?	?	?	?	90	?	?	?	?	?	?	?
Common Yellowthroat	?	?	?	?	88	?	?	?	?	?	?	?
Black-headed Grosbeak	?	?	?	?	90	?	?	?	?	?	?	?
Vesper Sparrow	?	?	?	?	?	?	?	91	?	?	?	?
On 9 August 1991, Anthony Floyd saw one Vesper Sparrow near a cemetery at the town of Siletz in an open field; he noted that it wasn't a juvenile junco (which could be confused with a Vesper Sparrow).												
Lark Sparrow	?	?	?	?	?	?	?	80	?	?	?	?
On 31 August 1980, Schrock saw one Lark Sparrow that landed on a bare, sandy patch of ground in the backyard of a house in the town of Siletz. He watched it for about 15 seconds from a distance of about 12 ft (3.7 m). It had the distinct head markings characteristic of this species, and the white tail markings showed plainly when it flew away.												
Savannah Sparrow	?	?	?	88	?	?	?	87	?	?	?	?
Golden-crowned Sparrow	?	88	?	?	?	?	?	?	?	?	?	?
Western Meadowlark	82	?	?	?	?	?	?	?	?	?	?	?
Brewer's Blackbird	?	88	?	88	88	?	87	87	87	88	81	87
All 1987-1988 records of Brewer's Blackbirds were within the town of Siletz.												
Purple Finch	90	?	?	?	?	?	?	?	?	?	?	?
House Finch	?	?	?	88	88	?	87	?	?	?	?	?
American Goldfinch	?	?	?	?	?	?	87	?	?	?	?	?



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**Chap. 3. GREAT BLUE HERON COLONY AT WEST FORK OF MILL CREEK, WEST OF THE TOWN OF SILETZ**  
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**3-A. INTRODUCTION**

Bayer studied Great Blue Heron colonies for several years (e.g., Bayer and McMahon 1981, Bayer 1982). Because not all of his data for this colony are given in his other publications, they are given here.

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**3-B. STUDY AREA**

Location: T10S, R10W, Section 7, SE 1/4 of SW 1/4 (Nehls 1972:6); however, Bayer's impression was that this heronry was actually in the next section to the west (T10S, R11W, Section 12, SE 1/4).

Area Studied: ?

Habitat(s): Forest

Elevation: 300-500 ft (91-152 m)

Distance to Coastline: about 4.5 mi (7.3 km).

There are several Mill Creeks in this area; this Mill Creek is west of the town of Siletz (Fig. 1.1).

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**3-C. RESULTS**

**3-C-1. GREAT BLUE HERONS**

A summary of the number of inactive and active nests, active nests/tree, and species of

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**3-D. TABLE**

**Table 3.1.** Number of inactive and active Great Blue Heron nests and species of trees with active nests at the West Fork of Mill Creek heronry. McMahon (1974:9-10) and Bayer defined an active

nest as one from which eggshells had been dropped,

a nest with adults or young, or a nest with droppings ("whitewashing"). -=no data available, N=number, +=at least the number indicated.

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**3-C-2. VARIED THRUSHES**

On 8 June 1976, Bayer heard a Varied Thrush singing here, which suggests that they may have nested here. Thus, they can nest at low elevations in large coniferous timber.

Year	1972	1974	1975	1976	1979
Reference	A	B	C	C	C
Inactive Nests (N)	-	-	-	13	-
Active Nests (N)	5-10	18	14	6	2+
Trees with 1 Nest (N)	-	-	4	4	-
" " 2 Nests (N)	-	-	5	1	-
" " 3 Nests (N)	-	-	0	0	-
Total Trees	-	8	9	5	-
Active Nests/Tree	-	2.3	1.6	1.2	-
Active Nest Trees: red alder (N)	-	0	0	0	-
red cedar (N)	-	0	0	0	-
Douglas-fir (N)	-	0	0	0	-
western hemlock (N)	-	0	0	0	-
Sitka spruce (N)	-	8	9	5	2+

A Nehls (1972:6).

B McMahon (1974:73-74) and Werschkul et al. (1976, 1977).

C Bayer's data for 28 June 1975, 22 June 1976, and 22 May 1979 visits.

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**Chap. 4. BIRDS AT OR NEAR LLEWELLYN'S HOME NEAR LOGSDEN**  
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**4-A. INTRODUCTION**

Bob Llewellyn, his wife Martha Doldt, and their daughter Chelsea live in the Logsdan area (Fig. 4.1). All three made some observations, although Bob made the most and recorded all of them.

He did not try to make systematic observations, so more birds may have been present than were recorded. He did not note the time of day or duration of his observations. His hikes took 30-60 minutes, and he recorded his bird notes when he came home.

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**4-B. STUDY AREA**

Location: Township 9S, Range 9W, SE 1/4 of Section 29  
 Area Studied: ?  
 Habitat(s) Studied: Mixed (Residential, Farmland, Riparian, Shrub/Forest)  
 Elevation: about 200-280 ft (61-85 m)  
 Distance to Coastline: 12.2-12.6 mi (19.8-20.4 km).

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**4-D. TOLERABLE OBSERVATION EFFORT (TOE)**

The term Tolerable Observation Effort (TOE) is used to emphasize that if certain criteria are attained, effort is judged Tolerable (i.e., moderately good or passable), so that observations can be considered as presence/absence data, not just as presence data (Bayer 1993:14-15).

Observations were within the dotted Study Area in Fig. 4.1. The approximate boundaries to the north was Highway 307, to the west was the Siletz River, to the east was the Beaver Pond, and to the south was River Mile 50 (Fig. 4.1).

Because Llewellyn considered his observations to be incidentally made and he rarely recorded at least eight species/observation (Table 4.1), none of his months are classed as TOE.

Many observations were at the Llewellyn's home (Fig. 4.1). They had cracked corn and hummingbird feeders and also supplied peanut butter at their feeders. They had 1-2 dogs and three cats; their neighbors also had cats.

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**4-E. SHORTCOMINGS OF OBSERVATIONS**

**4-E-1. INTRODUCTION**

In any ornithological undertaking there are shortcomings, and this is no exception. Many possible shortcomings are examined in Bayer (1993:28-31); here, only the most relevant ones are examined.

Around their house, they had a maple tree that was about 30 ft (9 m) high, two Douglas firs that were about 50 ft (15 m) tall, three lodgepole pines about 25 ft (8 m) high, a black locust tree about 25 ft (8 m) tall, and some apple trees. On adjoining property there was himalaya blackberries, some western hawthorns, and a row of 8-10 red cedars that were about 40 ft (12 m) high.

**4-E-2. SHORTCOMING: OVERLOOKING SPECIES**

Because Llewellyn did not attempt to systematically record all species, many may have been missed, particularly shy or inconspicuous species. Further, he may also have consistently recorded species with which he was familiar and overlooked unfamiliar species.

Bob also made many observations while walking to and from the Siletz River and the Beaver Pond (Fig. 4.1). This area was a mixture of fields, brush, and riparian forest.

**4-E-3. SHORTCOMING: LOW OBSERVATION EFFORT**

Llewellyn made few or no observations during many months, particularly during June-November (Table 4.1). Thus, the seasonality of many bird species is not as clear as it would have been if there had consistently been three or more observations/month. Because of the usually low observation effort, these records are best

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**4-C. METHODS**

Llewellyn's observations were made incidentally with or without binoculars at his home or during walks from 1986 through June 1993; earlier observations were not clearly separable for this Study Area and are included in Chap. 7.

considered as presence data, not presence/absence data (section 4-D).

#### 4-E-4. SHORTCOMING: ERRORS IN DETERMINING FIRST AND LAST DATES

Dates when Llewellyn first or last saw a species are given, if available. However, species may have been present before his First date or after his Last date because his observation effort was not daily and often may not have been long enough to detect all passing migrants. The accuracy of First and Last dates is examined in detail in Faxon and Bayer (1991:29-31).

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#### 4-F. GENERAL RESULTS AND DISCUSSION

##### 4-F-1. NUMBER OF TAXA

Few taxa were usually recorded each observation, and the most ever reported was 16 in June 1988 (Table 4.1). The average number of taxa/observation was usually less than 5.0 (Table 4.1).

The range in the maximum number of taxa noted each month was 7-22, and the range in total taxa/month for all years was 16-36 (Table 4.2). Because of low observation effort during June-November (Table 4.1), it is unclear if there were any seasonal trends in the number of taxa/month.

There was a total of 77 taxa, with a range of 24-51 taxa/year (Table 4.2). The greatest number of species was recorded in 1990--the year with the greatest number of observation days and total records (Tables 4.1 and 4.2).

Only seven taxa were waterbirds, and 71% of these were observed in only 1-2 years of the years with many observations (Table 4.3). In contrast, 37% of terrestrial bird taxa were recorded in only 1-2 years (Table 4.3); the species recorded in each of these years included American Crow, Black-capped Chickadee, Winter Wren, Ruby-crowned Kinglet, American Robin, Rufous-sided Towhee, Fox, Song, and White-crowned sparrows; and Red-winged Blackbird (section 4-G).

##### 4-G. TAXA ACCOUNTS

Times are in Pacific Standard Time (PST) by the 24 hour clock (i.e., 1300 are added to times after 1200; 1 PM=1300, 2 PM=1400).

#### 4-F-2. NESTING SPECIES

Species with adults at a nest, with nestlings, or with fledged or nonfledged young still receiving parental care include Barn Swallow, Bushtit, Bewick's Wren, Black-headed Grosbeak, and House Sparrow (section 4-G). But searches for nests may have revealed that other species may have also nested, since they were often present during the nesting season (section 4-G).

#### 4-F-3. EFFECTS OF SNOWFALL AND ICY WEATHER

Snow is rare in the Logsdan Valley, but there was snow on the ground on 1-8 February 1989, 12-16 February 1990, and late December 1990 at Llewellyn's home. When snow covered the ground, birds were more common at feeders.

For example, on 2 February 1989, birds were abundant at his feeder; they included Varied Thrushes, Eurasian Starlings, Steller's Jays, Dark-eyed Juncos, Song Sparrows, and Rufous-sided Towhees. On February 3, they were joined by Red-winged Blackbirds, Fox Sparrows, and crows.

During the February 1990 cold spell and snowfall, many birds also used his feeders. When his feeder was filled with bird feed on the morning of February 13, the following birds arrived within about five minutes: 40-50 Dark-eyed Juncos, 12 Pine Siskins, two Varied Thrushes, one Northern Flicker, one Purple Finch, several House Sparrows, two Song Sparrows, three Red-winged Blackbirds, up to 25 crows, two Rufous-sided Towhees, and four Steller's Jays. On February 16, the following birds were sometimes at his feeder: 30 crows, 50 Pine Siskins, 30 Dark-eyed Juncos, three male Red-winged Blackbirds, six Varied Thrushes, two Purple Finches, two Rufous-sided Towhees, three Song, two Fox, and one White-throated sparrows; one Northern Flicker, six American Robins, and six Steller's Jays.

In late December 1990, a White-throated Sparrow first appeared at Llewellyn's feeder after the cold and snow on December 20. Also at his feeders (some of which included peanut butter) on December 20-23 during the cold snap were crows, Steller's Jays, Song and Fox sparrows, Varied Thrushes, Dark-eyed Juncos, Rufous-sided Towhees, Black-capped Chickadees, and Northern Flickers.

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##### 4-G-1. YEARS WITHOUT RECORDS

A year may be listed for a taxon even though the taxon was not recorded that year. This is done to make it clearer that a taxon was not found every year. Years of absence are given particularly for taxa that are present nearly every year.

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**4-G-2. FIRST AND LAST DATES**

These are the first and last dates, respectively, that a taxon was recorded. Note that a taxon may have been present before a First or after a Last date (Faxon and Bayer 1991:29-31). A First or Last date is only listed if there appears to be enough observations to somewhat accurately determine the date.

--not possible to assign a First or Last date because the bird taxon was present continually or erratically throughout the year, because observation effort may have been inadequate to determine the First or Last date reasonably accurately, or because the date was not recorded.

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**4-G-3. SEMIMONTHLY FREQUENCY**

A.=taxon recorded in the first part (1-15th) of a month; it wasn't noted later that month.  
.Z=taxon recorded from the 16th to the end of a month; it wasn't noted earlier that month.  
AZ=taxon recorded during both portions (1-15th and 16th-end) of a month.  
?=taxon not recorded during a month. It is not possible to determine if the absence is a result of low observation effort or from the absence of the taxon.

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**4-G-4. AVERAGE MONTHLY FREQUENCY**

AV MONTH. FREQ=average monthly frequency of occurrence of a taxon (e.g., Bayer 1993:20).  
+=taxon recorded during one month.  
X=taxon recorded during two or more months.  
?=the taxon was not recorded but there were no observations or observation effort may have been inadequate to detect it.

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**4-G-5. GREAT BLUE HERON**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
87	-	-	?	?	?	?	?	?	?	A.	?	?	?	?
88	-	-	?	?	?	?	?	?	?	?	?	?	?	A.
89	-	-	?	?	?	?	?	?	?	?	?	?	?	?
90	-	-	?	?	?	?	?	?	?	.Z	A.	.Z	?	?
91	-	-	A.	?	?	?	?	?	?	?	?	?	?	?
92	-	-	?	?	?	?	?	?	?	?	?	?	?	?
93	-	-	?	?	?	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ + ? ? ? ? ? X + + ? + ?

-----  
**4-G-6. GREEN-BACKED HERON**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
87	-	-	?	?	?	?	?	?	?	?	?	?	?	?
88	-	-	?	?	?	?	?	?	?	?	?	?	?	?
89	-	-	?	?	?	?	.Z	?	?	?	?	?	?	?
90	-	-	?	?	?	?	?	?	?	?	?	?	?	?
91	-	-	?	?	?	?	?	A.	?	?	?	?	?	?
92	05/09	-	?	?	?	?	A.	?	?	?	?	?	?	?

AV MONTH. FREQ ? ? ? ? X + ? ? ? ? ? ?  
On 22 May 1989, three flew from the Beaver Pond over Llewellyn's house. On 9 May 1992, two flew over.

-----  
**4-G-7. UNKNOWN GEESE**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
87	04/26	04/26	?	?	?	.Z	?	?	?	?	?	?	?	?
88	-	-	?	?	?	?	?	?	?	?	?	?	?	?
89	04/30	04/30												
89	09/10	09/10	?	?	?	.Z	?	?	?	?	A.	?	?	?
90	02/22	02/22	?	.Z	?	?	?	?	?	?	?	?	?	?
91	04/29	04/29												
91	10/16	10/16	?	?	?	.Z	?	?	?	?	?	.Z	?	?
92	-	-	?	?	?	?	?	?	?	?	?	?	?	?
93	-	-	?	?	?	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ ? + ? X ? ? ? ? + + ? ?  
On 26 April 1987, 250 flew over towards the northwest.  
On 10 September 1989, a flock flew towards the south.  
On 22 February 1990, a flock of about 50 geese flew over towards the northwest at 0705 PST.  
On 16 October 1991, about 200 flew over towards the northeast at 0930 PST.

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**4-G-8. MALLARD**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
90	-	-	?	A.	?	?	?	?	?	?	?	?	?	?
91	-	-	?	?	?	?	?	?	?	?	?	?	?	?
92	-	-	?	?	?	?	?	?	?	?	?	?	?	?
93	-	-	?	?	?	?	?	A.	?	?	?	?	?	?

AV MONTH. FREQ ? + ? ? ? ? + ? ? ? ? ? ?

-----  
**4-G-9. TURKEY VULTURE**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
87	03/30	-	?	?	.Z	?	?	?	?	?	?	?	?	?
88	-	-	?	?	?	?	?	A.	?	?	?	?	?	?
89	-	09/03	?	?	?	?	A.	?	?	?	A.	?	?	?
90	-	-	?	?	?	?	?	?	?	?	?	?	?	?
91	-	-	?	?	?	?	?	?	?	?	?	?	?	?
92	-	-	?	?	?	?	?	?	?	?	?	?	?	?
93	03/26	-	?	?	.Z	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ ? ? X ? + + ? ? + ? ? ?  
The lack of summer records may be a result of low observation effort, not this species' absence.

4-G-10. BLACK-SHOULDERED KITE

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
87	-	-	?	A.	?	?	?	?	?	?	?	?	?	?
88	-	-	A.	?	.Z	?	?	?	?	?	?	.Z	?	?

AV MONTH. FREQ + + + ? ? ? ? ? ? + ? ?

In Betty Coates' field across Highway 307 from Llewellyn's house, one was seen on 15 February 1987 and 9 January 1988.

During Llewellyn's walk to his Beaver Pond, he noted one on 20 March and two on 16 October 1988. The one on March 20 was harassing a male Northern Harrier.

4-G-11. NORTHERN HARRIER

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
88	-	-	?	?	.Z	?	?	?	?	?	?	?	?	?
89	-	-	?	?	?	.Z	?	?	?	?	?	A.	?	?

AV MONTH. FREQ ? ? + + ? ? ? ? ? + ? ?

Only an adult male (gray) harrier was recorded once during each of these three semimonthly periods. These results are similar to other observations near Logsdan (section 7-G-18), but are in marked contrast to the South Beach Peninsula, where only four of 26 birds had adult male plumage (Bayer 1991:15).

The one in March 1988 was being harassed by a Black-shouldered Kite.

4-G-12. SHARP-SHINNED HAWK

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
87	-	-	?	?	?	?	?	?	?	?	?	?	?	?
88	-	-	?	?	?	?	?	?	?	?	?	?	?	.Z
89	-	-	?	?	?	?	?	?	?	?	?	?	?	?
90	-	-	?	?	?	?	?	?	?	?	.Z	?	?	?
91	-	-	?	?	?	?	?	?	?	?	?	?	?	?
92	-	-	?	?	A.	?	?	?	?	?	.Z	?	.Z	?

AV MONTH. FREQ ? ? + ? ? ? ? ? + + ? ? X

Only one was seen at a time.

4-G-13. COOPER'S HAWK

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
87	-	-	?	?	?	?	?	?	?	?	?	?	?	?
88	-	-	?	?	?	?	?	?	?	?	?	?	?	.Z
89	-	-	?	?	?	?	?	?	?	?	?	?	?	.Z
90	-	-	?	?	?	?	?	?	?	.Z	?	?	?	.Z
91	-	-	?	A.	?	?	?	?	?	?	?	?	?	?
92	-	-	?	?	?	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ ? + ? ? ? ? ? + ? ? ? X

Only one was seen at a time.

4-G-14. RED-TAILED HAWK

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
87	-	-	?	?	?	?	?	?	?	?	?	?	?	?
88	-	-	?	?	?	?	?	?	?	?	?	?	?	?
89	-	-	?	?	?	?	?	?	?	?	A.	?	?	?
90	-	-	?	?	?	?	?	?	?	?	.Z	A.	?	.Z
91	-	-	?	?	?	?	?	?	?	?	?	?	?	?
92	-	-	?	?	?	?	?	?	?	?	?	?	?	A.

AV MONTH. FREQ ? ? ? ? ? ? ? ? X + ? X

4-G-15. AMERICAN KESTREL

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
86	-	-	?	?	?	?	?	?	?	?	?	?	?	A.
92	-	-	?	?	?	?	?	?	?	?	?	?	?	A.

AV MONTH. FREQ ? ? ? ? ? ? ? ? ? ? X

4-G-16. MERLIN

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
90	04/08	04/08	?	?	?	A.	?	?	?	?	?	?	?	?

AV MONTH. FREQ ? ? ? + ? ? ? ? ? ? ? ?

Only one was seen near the Beaver Pond.

4-G-17. UNKNOWN GROUSE

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
92	-	-	?	?	?	?	?	?	?	?	?	.Z	?	.Z

AV MONTH. FREQ ? ? ? ? ? ? ? ? ? + ? +

These were probably Ruffed Grouse.

4-G-18. RUFFED GROUSE

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
87	-	-	?	?	?	?	?	?	?	?	?	?	?	?
88	-	-	?	?	?	?	?	?	?	?	?	?	?	?
89	-	-	?	?	?	?	?	?	?	?	?	?	?	A.
90	-	-	?	A.	?	?	?	?	?	?	?	?	?	?
91	-	-	?	?	?	?	?	?	?	?	?	?	?	?
92	-	-	?	?	?	?	?	?	?	?	?	?	?	?
93	-	-	?	?	A.	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ ? + + ? ? ? ? ? ? ? ? + ?

Also see unknown grouse.

4-G-19. UNKNOWN QUAIL

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
87	-	-	?	?	?	?	?	?	?	?	?	?	?	?
88	-	-	?	?	?	?	?	?	?	?	?	?	?	.Z
89	-	-	?	A.	?	?	?	?	?	?	?	?	A.	?
90	-	-	?	A.	?	?	?	?	?	?	?	?	?	.Z
91	-	-	?	?	?	?	?	?	?	?	?	?	?	?
92	-	-	?	?	?	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ ? X ? ? ? ? ? ? ? ? + X

These were probably Mountain Quail.

4-G-20. KILLDEER

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
88	-	-	?	?	?	?	?	?	?	?	?	A.	?	?

AV MONTH. FREQ ? ? ? ? ? ? ? ? ? ? + ? ?

On 1 October 1988, three flocks with 3, 12, and 100 birds flew overhead; temperatures were above freezing at Newport then, so this apparent migratory movement seems unrelated to freezing weather.

4-G-21. GREATER YELLOWLEGS

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
90	08/26	08/26	?	?	?	?	?	?	?	.Z	?	?	?	?

AV MONTH. FREQ ? ? ? ? ? ? ? ? + ? ? ? ? ?

On 26 August 1990, four flew over Llewellyn's house.

4-G-22. SPOTTED SANDPIPER

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
90	08/02	08/02	?	?	?	?	?	?	?	A.	?	?	?	?

AV MONTH. FREQ ? ? ? ? ? ? ? ? + ? ? ? ? ?

On 2 August 1990, one landed in Llewellyn's driveway, then flew down the road and landed again.

4-G-23. BAND-TAILED PIGEON

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
87	-	-	?	?	?	?	.Z	?	?	?	?	?	?	?
88	04/30	-	?	?	?	.Z	A.	?	?	?	?	?	?	?
89	-	-	?	?	?	?	?	?	?	?	?	?	?	?
90	04/24	-	?	?	?	.Z	A.	?	?	?	?	?	?	?
91	-	-	?	?	?	?	?	?	?	?	?	?	?	?
92	-	-	?	?	?	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ ? ? ? X X + ? ? ? ? ? ? ? ?

The lack of summer records may be a result of low observation effort, not this species' absence. Several were on Llewellyn's feeder in May 1988 and April and May 1990.

4-G-24. BARN OWL

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
87	03/03	03/03	?	?	A.	?	?	?	?	?	?	?	?	?
88	07/22	07/22	?	?	?	?	?	?	?	.Z	?	?	?	?

AV MONTH. FREQ ? ? + ? ? ? ? + ? ? ? ? ? ?

In Betty Coates' field across Highway 307 from Llewellyn's house, two were seen in 1987. In 1988, one was discovered near the Beaver Pond.

4-G-25. COMMON NIGHTHAWK

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
87	-	-	?	?	?	?	?	?	?	?	?	?	?	?
88	-	-	?	?	?	?	?	?	.Z	?	?	?	?	?
89	-	-	?	?	?	?	?	?	?	?	?	?	?	?
90	-	-	?	?	?	?	?	?	?	?	?	?	?	?
91	-	-	?	?	?	?	?	?	A.	?	?	?	?	?
92	-	-	?	?	?	?	?	?	?	?	?	?	?	?
93	06/08	-	?	?	?	?	?	?	A.	?	?	?	?	?

AV MONTH. FREQ ? ? ? ? ? X + ? ? ? ? ? ?  
The lack of summer records may be a result of low observation effort, not this species' absence.

4-G-26. VAUX'S SWIFT

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
91	05/12	05/12	?	?	?	?	A.	?	?	?	?	?	?	?

AV MONTH. FREQ ? ? ? ? ? + ? ? ? ? ? ? ? ?

On 12 May 1991, 16 flew over Llewellyn's house.

4-G-27. RUFIOUS HUMMINGBIRD

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
86	03/01	-	?	?	A.	?	?	?	A.	?	?	?	?	?
87	-	-	?	?	?	?	.Z	?	?	?	?	?	?	?
88	-	-	?	?	?	?	?	?	?	?	?	?	?	?
89	03/16	08/04	?	?	.Z	A.	?	?	.Z	A.	?	?	?	?
90	-	08/18	?	?	?	?	?	?	?	.Z	?	?	?	?
91	03/10	-	?	?	A.	?	?	?	?	?	?	?	?	?
92	-	-	?	?	?	?	?	?	?	?	?	?	?	?
93	03/05	-	?	?	A.	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ ? ? X + + ? X X ? ? ? ? ?

The lack of summer records may be a result of low observation effort, not this species' absence. On 5 April 1989, 12 were at Llewellyn's feeder at once.

From about 25 July through 4 August 1989, 4-6 hummers at once were drinking a bottle a day at Llewellyn's feeder after being rarely present for four or so weeks; by August 6, their numbers had dropped.

4-G-28. RED-BREASTED SAPSUCKER

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
86	-	-	?	?	A.	?	?	.Z	?	?	?	?	?	?
87	-	-	?	?	A.	?	?	?	?	?	?	?	?	?
88	-	-	?	?	?	?	?	?	?	?	?	?	A.	?
89	-	-	?	A.	?	?	?	?	?	?	?	?	?	.Z
90	-	-	?	.Z	?	?	?	?	?	?	?	?	?	?
91	-	-	?	?	?	?	?	?	?	?	?	?	?	?
92	-	-	?	?	?	?	?	?	?	?	?	?	?	?
93	-	-	A.	A.	?	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ + X X ? ? + ? ? ? ? ? + +

The lack of summer and fall records may be a result of low observation effort, not this species' absence.

In March 1987, one bored holes in a maple tree near Llewellyn's house.

4-G-29. DOWNY WOODPECKER

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
87	-	-	A.	?	?	?	?	?	?	?	?	?	?	?
88	-	-	?	?	?	?	?	?	?	?	?	?	?	?
89	-	-	?	?	?	?	?	?	?	?	?	?	?	?
90	-	-	A.	?	?	A.	A.	?	?	?	?	?	?	?
91	-	-	?	.Z	?	?	A.	?	?	?	?	?	?	?
92	-	-	?	?	?	?	?	?	?	?	?	?	?	?
93	-	-	?	?	?	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ X + ? + X ? ? ? ? ? ? ?

The lack of summer and fall records may be a result of low observation effort, not this species' absence.

4-G-30. HAIRY WOODPECKER

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
87	-	-	?	?	?	?	?	?	?	?	?	?	?	?
88	-	-	?	?	?	?	?	?	?	?	?	?	?	?
89	-	-	?	?	?	?	?	?	?	?	?	?	?	?
90	-	-	A.	?	?	?	?	?	?	?	?	?	?	?
91	-	-	?	?	?	?	?	?	?	?	?	?	?	?
92	-	-	?	?	?	?	?	?	?	?	?	?	?	.Z
93	-	-	A.	?	?	A.	?	?	?	?	?	?	?	?

AV MONTH. FREQ X ? ? + ? ? ? ? ? ? ? +

The lack of summer and fall records may be a result of low observation effort, not this species' absence.

4-G-31. NORTHERN FLICKER

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
86	-	-	?	?	?	?	?	?	?	?	?	?	?	A.
87	-	-	?	?	?	?	.Z	?	?	?	?	?	?	?
88	-	-	?	?	?	?	?	?	?	?	?	?	?	?
89	-	-	?	A.	?	?	?	?	?	?	AZ	?	?	.Z
90	-	-	AZ	AZ	?	?	?	?	?	.Z	?	.Z	A.	.Z
91	-	-	.Z	?	?	?	A.	?	?	?	?	?	?	?
92	-	-	?	.Z	?	?	?	?	?	?	?	.Z	?	?
93	-	-	A.	?	?	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ X X ? ? X ? ? + + X + X

The lack of summer records may be a result of low observation effort, not this species' absence.

During snowy or icy weather, these birds were sometimes at Llewellyn's feeder (section 4-F-3).

Llewellyn never saw any flickers with yellow-shafts here.

4-G-32. PILEATED WOODPECKER

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
87	-	-	?	?	?	?	?	?	?	?	?	?	?	?
88	-	-	?	?	?	?	.Z	?	?	?	?	?	?	?
89	-	-	?	?	?	?	?	?	?	?	?	?	A.	?
90	-	-	?	?	?	?	?	?	?	?	?	?	?	?
91	-	-	A.	?	?	?	?	?	?	?	?	?	?	?
92	-	-	?	?	?	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ + ? ? ? + ? ? ? ? ? + ?

The lack of summer and fall records may be a result of low observation effort, not this species' absence.

4-G-33. WESTERN WOOD-PEWEE

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
90	05/12	-	?	?	?	?	AZ	?	?	?	?	?	?	?

AV MONTH. FREQ ? ? ? ? + ? ? ? ? ? ? ?

4-G-34. WILLOW FLYCATCHER

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
86	05/01	-	?	?	?	?	A.	?	A.	?	?	?	?	?
87	05/27	-	?	?	?	?	.Z	?	?	?	?	?	?	?
88	-	08/14	?	?	?	?	?	A.	?	A.	?	?	?	?
89	05/30	-	?	?	?	?	.Z	?	?	?	?	?	?	?
90	-	-	?	?	?	?	?	?	?	?	?	?	?	?
91	-	-	?	?	?	?	?	?	A.	?	?	?	?	?
92	-	-	?	?	?	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ ? ? ? ? X + X + ? ? ? ?

4-G-35. TREE SWALLOW

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
87	03/21	-	?	?	.Z	?	.Z	?	?	?	?	?	?	?
88	-	-	?	?	?	?	?	A.	?	?	?	?	?	?
89	-	-	?	?	?	.Z	A.	?	?	?	?	?	?	?
90	03/24	-	?	?	.Z	?	?	?	?	?	?	?	?	?
91	03/16	-	?	?	.Z	?	?	?	?	?	?	?	?	?
92	-	-	?	?	?	?	?	?	?	?	?	?	?	?
93	-	-	?	?	?	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ ? ? X + X + ? ? ? ? ? ?

Some were inspecting nestboxes on 21 March 1987, 24 March 1990, and 16 March 1991.

4-G-36. VIOLET-GREEN SWALLOW

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
86	03/02	-	?	?	A.	?	A.	?	A.	?	?	?	?	?
87	03/21	-	?	?	.Z	?	.Z	?	?	?	?	?	?	?
88	02/21	-	?	.Z	A.	?	?	A.	?	?	?	?	?	?
89	03/01	-	?	?	A.	.Z	A.	?	?	A.	?	?	?	?
90	-	-	?	?	?	?	?	?	?	?	?	?	?	?
91	03/31	09/03	?	?	.Z	?	?	?	?	?	A.	?	?	?
92	-	-	?	?	?	?	?	?	?	?	?	?	?	?
93	-	-	?	?	?	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ ? + X + X + + + ? ? ?

Some were inspecting nestboxes on 21 March 1986 and 13 March 1988.

On 3 September 1991, at least 100 mostly Violet-green and some Barn swallows were perched on overhead wires at 1800 PST.

4-G-37. NORTHERN ROUGH-WINGED SWALLOW

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
87	05/04	05/13	?	?	?	?	A.	?	?	?	?	?	?	?

AV MONTH. FREQ ? ? ? ? + ? ? ? ? ? ? ?

4-G-38. CLIFF SWALLOW

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
86	-	-	?	?	?	?	?	?	A.	?	?	?	?	?
87	-	-	?	?	?	?	?	?	?	?	?	?	?	?
88	-	-	?	?	?	?	?	A.	?	?	?	?	?	?
89	-	-	?	?	?	?	?	?	?	?	?	?	?	?
90	-	-	?	?	?	?	?	?	?	?	?	?	?	?
91	-	-	?	?	?	?	?	A.	?	?	?	?	?	?
92	-	-	?	?	?	?	?	?	?	?	?	?	?	?
93	-	-	?	?	?	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ ? ? ? ? ? X + ? ? ? ? ?

4-G-39. BARN SWALLOW

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
86	-	-	?	?	?	?	A.	.Z	A.	?	?	?	?	?
87	-	-	?	?	?	?	.Z	?	?	?	?	?	?	?
88	04/10	-	?	?	?	A.	?	A.	?	?	?	?	?	?
89	-	-	?	?	?	?	A.	?	?	A.	?	?	?	?
90	-	-	?	?	?	?	A.	?	?	A.	?	?	?	?
91	04/28	09/11	?	?	?	.Z	A.	?	?	?	A.	?	?	?
92	-	-	?	?	?	?	?	?	?	?	?	?	?	?
93	-	-	?	?	?	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ ? ? ? X X X + X + ? ? ?

On 27 June 1986, a brood of young left their nest but returned that night to roost at the nest.

On 1 September 1991, two adult and three young were on overhead wires, although other young remained in nests.

On 3 September 1991, at least 100 mostly Violet-green and some Barn swallows perched on overhead wires at 1800 PST.

4-G-40. STELLER'S JAY

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
86	-	-	?	A.	?	?	?	?	?	?	?	?	?	A.
87	-	-	?	?	?	?	?	?	?	?	?	?	?	?
88	-	-	?	?	?	?	?	A.	?	?	?	A.	?	.Z
89	-	-	?	A.	A.	?	?	?	?	?	?	?	?	.Z
90	-	-	AZ	AZ	?	A.	?	?	?	?	?	?	?	.Z
91	-	-	.Z	?	?	?	A.	?	?	?	?	?	?	?
92	-	-	?	?	?	?	?	?	?	?	?	?	?	.Z
93	-	-	A.	A.	?	.Z	?	?	?	?	?	?	?	?

AV MONTH. FREQ X X + X + + ? ? ? + ? X

The lack of summer and fall records may be a result of low observation effort, not this species' absence.

During snowy or icy weather, these birds were sometimes at Llewellyn's feeder (section 4-F-3).

4-G-41. AMERICAN CROW

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
86	-	-	?	A.	?	?	?	?	?	?	?	?	?	?
87	-	-	?	?	.Z	?	.Z	?	?	?	?	?	?	?
88	-	-	?	?	?	?	?	A.	?	?	?	?	?	.Z
89	-	-	?	A.	?	.Z	?	?	?	?	AZ	?	A.	.Z
90	-	-	.Z	AZ	?	?	.Z	?	?	.Z	?	.Z	A.	.Z
91	-	-	.Z	?	?	?	A.	?	A.	?	A.	?	A.	?
92	-	-	A.	.Z	?	?	?	?	?	?	?	?	?	?
93	-	-	A.	?	?	.Z	?	?	?	?	?	?	?	?

AV MONTH. FREQ X X + X X + + + X + X X

On 7 February 1990, at least 30 were counted at Llewellyn's feeder during a period of snowy weather. During snowy or icy weather, these birds were sometimes at Llewellyn's feeder (section 4-F-3).

On 5 November 1991, Llewellyn saw about 300 crows flying while he was walking.

On 1 January 1992, 200-400 crows flew around acrobatically. Some were diving down in a long slant, wings partially folded; some flew with their feet out. Some were flying very high. Many were calling.

4-G-42. COMMON RAVEN

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
87	-	-	?	?	?	.Z	?	?	?	?	?	?	?	?
88	-	-	?	?	?	?	?	?	?	?	?	?	?	?
89	-	-	?	?	?	?	?	?	?	?	AZ	?	?	?
90	-	-	?	?	?	?	?	?	?	?	?	?	?	?
91	-	-	.Z	?	?	?	A.	?	?	?	?	?	?	?
92	-	-	?	?	?	?	?	?	?	?	?	?	?	.Z
93	-	-	?	?	?	.Z	?	?	?	?	?	?	?	?

AV MONTH. FREQ + ? ? X + ? ? ? + ? ? +

The lack of summer and fall records may be a result of low observation effort, not this species' absence.

Llewellyn only saw 1-2 at a time.

4-G-43. BLACK-CAPPED CHICKADEE

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
86	-	-	?	?	?	?	?	.Z	A.	?	?	?	?	?
87	-	-	A.	?	.Z	?	?	?	?	?	?	?	?	?
88	-	-	A.	?	?	?	?	A.	?	?	?	?	A.	?
89	-	-	?	?	?	.Z	?	?	?	?	A.	?	?	.Z
90	-	-	?	?	?	A.	.Z	?	?	.Z	?	?	A.	.Z
91	-	-	.Z	.Z	?	?	?	?	A.	?	A.	?	A.	?
92	-	-	?	.Z	?	?	?	?	?	?	?	?	?	.Z
93	-	-	A.	A.	A.	AZ	?	?	?	?	?	?	?	?

AV MONTH. FREQ X X X X + X X + X ? X X

During snowy or icy weather, these birds were sometimes at Llewellyn's feeder (section 4-F-3).



**4-G-44. CHESTNUT-BACKED CHICKADEE**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
86	-	-	?	?	?	?	?	?	?	?	?	?	?	?
87	-	-	A.	?	.Z	?	?	?	?	?	?	?	?	?
88	-	-	?	?	?	?	?	?	?	?	?	?	?	?
89	-	-	?	?	?	?	?	?	?	?	?	?	?	?
90	-	-	?	?	?	A.	?	?	?	?	?	?	?	?
91	-	-	?	.Z	?	?	?	?	?	?	?	?	?	?
92	-	-	?	?	?	?	?	?	?	?	?	?	?	AZ
93	-	-	A.	?	A.	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ X + X + ? ? ? ? ? ? ? +  
 The lack of summer and fall records may be a result of low observation effort, not this species' absence.

**4-G-45. BUSHTIT**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
87	-	-	?	?	?	?	?	?	?	?	?	?	?	?
88	-	-	?	?	?	?	?	A.	?	?	?	?	?	.Z
89	-	-	?	?	?	.Z	?	?	?	?	?	?	?	?
90	-	-	?	?	?	?	?	?	?	?	?	?	?	?
91	-	-	?	?	?	?	A.	?	?	?	?	?	?	?
92	-	-	?	?	A.	?	?	?	?	?	?	?	?	?
93	-	-	?	?	A.	A.	?	?	?	?	?	?	?	?

AV MONTH. FREQ ? ? X X ? X ? ? ? ? ? +  
 On 5 June 1988, Llewellyn saw a pair at a nest near the Beaver Pond.

**4-G-46. RED-BREASTED NUTHATCH**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
88	-	-	AZ	?	.Z	?	?	?	?	?	?	?	?	?
89	-	-	?	?	?	?	?	?	?	?	?	?	?	?
90	-	-	A.	?	?	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ X ? + ? ? ? ? ? ? ? ?

**4-G-47. BEWICK'S WREN**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
87	-	-	A.	?	?	.Z	?	?	?	?	?	?	?	?
88	-	-	?	?	?	?	?	?	?	?	?	?	?	?
89	-	-	?	?	?	?	?	?	?	?	?	?	?	?
90	-	-	?	?	?	?	?	?	?	?	?	?	?	?
91	-	-	?	?	?	?	?	?	?	?	?	?	?	?
92	-	-	?	?	?	?	?	?	?	?	?	?	?	.Z
93	-	-	?	?	?	.Z	?	A.	?	?	?	?	?	?

AV MONTH. FREQ + ? ? X ? + ? ? ? ? ? ? +  
 On 8 June 1993, adults were flying to and from a nest on posts that were leaned against Llewellyn's garage.

**4-G-48. WINTER WREN**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
87	-	-	A.	?	?	?	?	?	?	?	?	?	?	?
88	-	-	?	?	?	?	?	?	?	?	?	?	?	.Z
89	-	-	?	?	?	.Z	?	?	?	?	A.	?	A.	?
90	-	-	?	?	?	?	?	?	?	?	?	?	?	.Z
91	-	-	?	?	?	?	?	?	A.	?	?	?	?	?
92	-	-	?	?	?	?	?	?	?	?	?	.Z	?	.Z
93	-	-	A.	?	A.	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ X ? + + ? ? + ? + + + X  
 The lack of summer records may be a result of low observation effort, not this species' absence. One was singing on 3 September 1989. On 9 January 1993, two were inside a swallow nest box, perhaps roosting.

**4-G-49. GOLDEN-CROWNED KINGLET**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
87	-	-	A.	?	?	?	?	?	?	?	?	?	?	?
88	-	-	A.	?	?	?	?	?	?	?	?	?	?	?
89	-	-	?	?	?	?	?	?	?	?	?	?	?	?
90	-	-	?	?	?	?	?	?	?	?	?	?	?	?
91	-	-	?	?	?	?	?	?	?	?	?	?	?	?
92	-	-	A.	?	?	?	?	?	?	?	?	?	?	.Z
93	-	-	A.	?	?	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ X ? ? ? ? ? ? ? ? ? ? +  
 The lack of summer and fall records may be a result of low observation effort, not this species' absence.

**4-G-50. RUBY-CROWNED KINGLET**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
87	-	-	A.	?	?	?	?	?	?	?	?	?	?	?
88	-	-	?	?	?	?	?	?	?	?	?	?	A.	.Z
89	-	-	?	A.	?	?	?	?	?	?	?	?	?	.Z
90	10/27	04/01	?	A.	?	A.	?	?	?	?	?	?	A.	.Z
91	-	-	.Z	.Z	?	?	?	?	?	?	?	?	?	?
92	-	-	?	?	?	?	?	?	?	?	?	?	?	.Z
93	-	-	?	A.	?	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ X X ? + ? ? ? ? ? ? + X X

**4-G-51. SWAINSON'S THRUSH**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
86	-	-	?	?	?	?	?	?	A.	?	?	?	?	?
87	05/27	-	?	?	?	?	.Z	?	?	?	?	?	?	?
88	-	-	?	?	?	?	?	A.	?	?	?	?	?	?
89	05/30	-	?	?	?	?	.Z	?	?	?	?	?	?	?
90	-	-	?	?	?	?	?	?	?	?	?	?	?	?
91	-	-	?	?	?	?	?	?	?	?	?	?	?	?
92	-	-	?	?	?	?	?	?	?	?	?	?	?	?
93	-	-	?	?	?	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ ? ? ? ? X + + ? ? ? ? ? ?

**4-G-52. HERMIT THRUSH**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
88	-	-	?	?	?	?	?	?	?	?	?	?	?	.Z

AV MONTH. FREQ ? ? ? ? ? ? ? ? ? ? ? +

4-G-53. AMERICAN ROBIN

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
86	-	-	?	?	?	?	?	.Z	A.	?	?	?	?	?
87	-	-	?	?	.Z	?	.Z	?	?	?	?	?	?	?
88	-	-	?	?	?	?	?	A.	?	?	?	?	?	?
89	-	-	?	?	A.	?	A.	?	?	?	?	?	A.	.Z
90	-	-	.Z	.Z	?	?	?	?	?	?	?	?	A.	?
91	-	-	.Z	A.	?	?	A.	?	?	?	?	?	A.	?
92	-	-	?	.Z	A.	?	?	?	?	?	?	?	.Z	?
93	-	-	A.	A.	A.	AZ	?	?	?	?	?	?	?	?

AV MONTH. FREQ X X X + X X + ? ? + X X

The lack of summer records may be a result of low observation effort, not this species' absence.

On 19 June 1986, a fledgling was seen away from the nest by itself.

On 1 March 1992, 20 were present.

During snowy or icy weather, these birds were sometimes at Llewellyn's feeder (section 4-F-3).

4-G-54. VARIED THRUSH

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
87	-	-	?	?	?	?	?	?	?	?	?	?	?	?
88	-	03/22	A.	?	.Z	?	?	?	?	?	?	?	A.	.Z
89	-	03/15	A.	A.	?	?	?	?	?	?	?	?	?	.Z
90	-	04/01	AZ	AZ	?	A.	?	?	?	?	?	?	A.	.Z
91	-	-	.Z	?	?	?	?	?	?	?	?	?	?	?
92	-	-	?	.Z	?	?	?	?	?	?	?	?	?	AZ
93	-	03/06	A.	A.	A.	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ X X X + ? ? ? ? ? ? ? X X

During snowy or icy weather, these birds were sometimes at Llewellyn's feeder (section 4-F-3).

But this species was not here during the summer.

4-G-55. WRENTIT

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
90	-	-	?	?	?	A.	?	?	?	?	?	?	?	?

AV MONTH. FREQ ? ? ? + ? ? ? ? ? ? ? ? ?

4-G-56. AMERICAN PIPIT

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
93	02/22	02/22	?	.Z	?	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ ? + ? ? ? ? ? ? ? ? ? ? ?

Two were near the Siletz River.

4-G-57. CEDAR WAXWING

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
86	-	-	?	?	?	?	?	.Z	A.	?	?	?	?	?
87	05/27	-	?	?	?	?	.Z	?	?	?	?	?	?	?
88	-	-	?	?	?	?	?	?	?	?	?	?	?	?
89	-	-	?	?	?	?	?	?	?	?	A.	?	?	?
90	-	-	?	?	?	?	?	?	.Z	A.	?	?	?	?
91	-	11/05	?	?	?	?	?	?	?	A.	A.	?	A.	?
92	-	-	?	?	?	?	?	?	?	?	?	?	?	?
93	-	-	?	?	?	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ ? ? ? ? + + X X X ? + ?

4-G-58. EUROPEAN STARLING

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
89	-	-	?	A.	?	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ \* + \* \* \* \* \* \* \* \* \* \*

\* Llewellyn noted that starlings were very common here, although he rarely recorded them.

During snowy or icy weather, these birds were sometimes at Llewellyn's feeder (section 4-F-3).

4-G-59. YELLOW-RUMPED WARBLER

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
86	-	-	?	?	?	?	?	?	?	?	?	?	?	?
87	-	-	?	?	?	?	?	?	?	?	?	?	?	?
88	05/05	05/05	?	?	?	?	A.	?	?	?	?	?	?	?
89	04/16	04/16	?	?	?	.Z	?	?	?	?	?	?	?	?
90	04/08	04/08	?	?	?	A.	?	?	?	?	?	?	?	?
91	-	-	?	?	?	?	?	?	?	?	?	?	?	?
92	-	-	?	?	?	?	?	?	?	?	?	?	?	?
93	04/16	04/16	?	?	?	.Z	?	?	?	?	?	?	?	?

AV MONTH. FREQ ? ? ? X + ? ? ? ? ? ? ? ? ?

4-G-60. BLACK-THROATED GRAY WARBLER

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
93	04/26	04/26	?	?	?	.Z	?	?	?	?	?	?	?	?

AV MONTH. FREQ ? ? ? + ? ? ? ? ? ? ? ? ?

4-G-61. TOWNSEND'S WARBLER

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
89	-	-	?	?	?	?	?	?	?	?	?	?	?	?
90	08/24	08/24	?	?	?	?	?	?	?	.Z	?	?	?	?
91	-	-	?	?	?	?	?	?	?	?	?	?	?	?
92	-	-	?	?	?	?	?	?	?	?	?	?	?	?
93	06/10	06/10	?	?	?	?	?	A.	?	?	?	?	?	?

AV MONTH. FREQ ? ? ? ? ? + ? + ? ? ? ? ?

Llewellyn had a fleeting glimpse of the June 1993 bird that had a face that looked like a male Townsend's. There are only two previous records of this species in June in Lincoln County.

4-G-62. COMMON YELLOWTHROAT

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
86	-	-	?	?	?	?	?	?	?	A.	?	?	?	?
87	-	-	?	?	?	?	?	?	?	?	?	?	?	?
88	05/08	-	?	?	?	?	A.	?	?	?	?	?	?	?
89	04/28	-	?	?	?	.Z	?	?	?	?	?	?	?	?
90	-	08/22	?	?	?	?	?	?	?	.Z	?	?	?	?
91	-	-	?	?	?	?	?	?	.Z	?	?	?	?	?
92	-	-	?	?	?	?	?	?	?	?	?	?	?	?
93	-	-	?	?	?	?	?	A.	?	?	?	?	?	?

AV MONTH. FREQ ? ? ? + + X + + ? ? ? ? ?

**4-G-63. WILSON'S WARBLER**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
87	-	-	?	?	?	?	?	?	?	?	?	?	?	?
88	-	-	?	?	?	?	?	?	A.	?	?	?	?	?
89	-	-	?	?	?	?	?	?	?	?	?	?	?	?
90	-	08/24	?	?	?	?	?	?	?	.Z	?	?	?	?
91	-	-	?	?	?	?	?	?	?	?	?	?	?	?
92	-	-	?	?	?	?	?	?	?	?	?	?	?	?
AV MONTH. FREQ	?	?	?	?	?	?	?	?	+	+	?	?	?	?

**4-G-64. WESTERN Tanager**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
87	-	-	?	?	?	?	?	?	A.	?	?	?	?	?
AV MONTH. FREQ	?	?	?	?	?	?	?	?	+	?	?	?	?	?

**4-G-65. BLACK-HEADED GROSBEAK**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
88	-	-	?	?	?	?	?	?	A.	?	?	?	?	?
AV MONTH. FREQ	?	?	?	?	?	?	?	?	+	?	?	?	?	?

On 5 June 1988, an adult and a fledgling were seen together away from the nest near the Beaver Pond.

**4-G-66. RUFIOUS-SIDED TOWHEE**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
86	-	-	?	?	?	?	?	?	?	?	?	?	?	A.
87	-	-	A.	?	?	?	?	?	?	?	?	?	?	?
88	-	-	A.	?	?	?	?	?	?	?	?	?	?	?
89	-	-	?	A.	A.	.Z	A.	?	?	?	?	?	A.	.Z
90	-	-	AZ	AZ	?	A.	.Z	?	?	?	?	.Z	A.	.Z
91	-	-	.Z	?	?	?	?	?	?	?	?	?	?	?
92	-	-	A.	.Z	?	?	?	?	?	?	?	?	?	AZ
93	-	-	A.	A.	?	?	?	?	?	?	?	?	?	?
AV MONTH. FREQ	X	X	+	X	X	?	?	?	?	?	?	?	X	X

Llewellyn thinks that the lack of towhee records here in summer is a result of its absence.

On 12 February 1993, eight were seen at once; usually only 1-2 were observed at a time.

During snowy or icy weather, these birds were sometimes at Llewellyn's feeder (section 4-F-3).

**4-G-67. FOX SPARROW**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
86	-	-	?	?	?	?	?	?	?	?	?	?	?	?
87	-	-	A.	?	?	?	?	?	?	?	?	?	?	?
88	-	-	A.	?	?	?	?	?	?	?	?	?	?	.Z
89	-	-	?	A.	?	?	?	?	?	?	?	?	?	?
90	-	-	?	AZ	?	?	?	?	?	?	?	?	?	.Z
91	-	-	.Z	A.	?	?	?	?	?	?	?	?	?	?
92	-	-	A.	.Z	?	?	?	?	?	?	?	.Z	?	AZ
93	-	-	A.	A.	A.	?	?	?	?	?	?	?	?	?
AV MONTH. FREQ	X	X	+	?	?	?	?	?	?	?	?	?	?	X

During snowy or icy weather, these birds were sometimes at Llewellyn's feeder (section 4-F-3).

The Fox Sparrow seen on 10 February 1990 was the first in several months, so sometimes they were absent in winter and not just overlooked.

**4-G-68. SONG SPARROW**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
86	-	-	?	A.	?	?	?	?	?	?	?	?	?	A.
87	-	-	A.	?	.Z	?	.Z	?	?	?	?	?	?	?
88	-	-	A.	?	?	?	?	A.	?	?	?	?	?	.Z
89	-	-	?	A.	A.	.Z	A.	?	?	?	?	A.	?	A.
90	-	-	AZ	AZ	?	A.	.Z	?	?	AZ	?	.Z	A.	.Z
91	-	-	.Z	A.	?	.Z	A.	?	A.	?	?	?	?	?
92	-	-	A.	.Z	?	?	?	?	?	?	?	?	?	AZ
93	-	-	A.	A.	A.	AZ	?	?	?	?	?	?	?	?
AV MONTH. FREQ	X	X	X	X	X	X	+	+	+	+	+	+	X	X

During snowy or icy weather, these birds were sometimes at Llewellyn's feeder (section 4-F-3).

**4-G-69. LINCOLN'S SPARROW**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
90	-	-	?	?	?	?	?	?	?	?	?	?	?	.Z
AV MONTH. FREQ	?	?	?	?	?	?	?	?	?	?	?	?	?	+

**4-G-70. WHITE-THROATED SPARROW**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
86	-	-	?	?	?	?	?	?	?	?	?	?	?	?
87	-	-	?	?	?	?	?	?	?	?	?	?	?	?
88	01/17	01/17	.Z	?	?	?	?	?	?	?	?	?	?	?
89	03/25	04/22	?	?	.Z	.Z	?	?	?	?	?	?	?	?
90	01/15	04/30												
90	12/20	-	A.	.Z	AZ	AZ	?	?	?	?	?	?	?	.Z
91	-	04/30	.Z	.Z	AZ	AZ	?	?	?	?	?	?	?	?
92	12/15	02/29	?	AZ	?	?	?	?	?	?	?	?	?	A.
93	-	04/16	A.	?	?	.Z	?	?	?	?	?	?	?	?
AV MONTH. FREQ	X	X	X	X	?	?	?	?	?	?	?	?	?	X

During snowy or icy weather, these birds were sometimes at Llewellyn's feeder (section 4-F-3).

Except for 10 March 1991, when Llewellyn saw two, only one was seen at a time near Llewellyn's house, often at his feeder. All were adults.

**4-G-71. GOLDEN-CROWNED SPARROW**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
86	-	-	?	?	?	?	?	?	?	?	?	?	?	?
87	04/19	04/26	?	?	?	.Z	?	?	?	?	?	?	?	?
88	05/04	05/04	?	?	?	?	A.	?	?	?	?	?	?	?
89	04/22	05/04	?	?	?	.Z	A.	?	?	?	?	?	?	?
90	04/08	05/11	?	?	?	AZ	A.	?	?	?	?	?	?	?
91	02/04	02/04												
91	04/14	05/03	?	A.	?	AZ	A.	?	?	?	?	?	?	?
92	-	-	?	?	?	?	?	?	?	?	?	?	?	?
93	-	-	?	?	?	?	?	?	?	?	?	?	?	?
AV MONTH. FREQ	?	+	?	X	X	?	?	?	?	?	?	?	?	?

This species was only present here in spring, although Llewellyn saw them elsewhere in fall and winter.

4-G-72. WHITE-CROWNED SPARROW

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
86	12/09	12/09	?	?	?	?	?	?	?	?	?	?	?	A.
87	-	-	?	?	?	.Z	.Z	?	?	?	?	?	?	?
88	03/22	-	?	?	.Z	?	?	?	?	?	?	?	?	?
89	03/25	-	?	?	.Z	.Z	A.	?	?	?	?	?	?	?
90	02/10	02/10												
90	03/31	-	?	A.	.Z	AZ	A.	?	?	.Z	.Z	?	?	?
91	02/04	02/04												
91	02/04	04/14	?	A.	?	AZ	A.	?	A.	A.	?	?	?	?
92	-	-	?	?	?	?	?	?	?	?	?	?	?	?
93	-	-	?	?	?	.Z	?	?	?	?	?	?	?	?

AV MONTH. FREQ ? X X X X ? + X + ? ? +

There are only two February records, so most seem to arrive in late March or early April.

The lack of summer records may be a result of low observation effort, not this species' absence.

Wintering birds may have been mostly immatures, but the age class of the December 1986 and February 1991 birds was not specified. The February 1990 bird was an immature.

4-G-73. DARK-EYED JUNCO

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
86	-	-	?	A.	?	?	?	?	?	?	?	?	?	A.
87	-	-	?	?	?	?	?	?	?	?	?	?	?	?
88	-	-	A.	?	.Z	?	?	?	?	?	?	?	?	.Z
89	-	04/09	?	A.	A.	A.	?	?	?	?	?	?	?	.Z
90	10/27	04/08	AZ	AZ	?	A.	?	?	?	?	?	.Z	A.	.Z
91	-	04/14	?	?	AZ	A.	?	?	?	?	?	?	?	?
92	10/16	-	?	?	?	?	?	?	?	?	?	.Z	?	.Z
93	-	-	A.	A.	A.	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ X X X X ? ? ? ? ? X + X

The lack of summer records may be a result of low observation effort, not this species' absence.

During snowy or icy weather, these birds were sometimes at Llewellyn's feeder (section 4-F-3).

Llewellyn sometimes saw Slate-colored Juncos here but did not record their presence.

4-G-74. RED-WINGED BLACKBIRD

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
86	02/04	-	?	A.	?	?	?	?	?	?	?	?	?	?
87	-	05/04	?	?	?	?	A.	?	?	?	?	?	?	?
88	-	-	?	?	A.	?	?	?	?	?	?	?	?	?
89	01/15	-	AZ	A.	AZ	.Z	?	?	?	?	?	?	?	?
90	01/14	-	AZ	AZ	?	A.	?	?	?	?	?	?	?	?
91	01/19	-	.Z	?	.Z	A.	?	?	?	?	?	?	?	?
92	-	-	?	?	?	?	?	?	?	?	?	?	?	?
93	02/09	-	?	A.	?	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ X X X X + ? ? ? ? ? ? ?

When distinguished, Redwings present in January were only males at Llewellyn's feeder or yard. The first females in 1989 and 1990, were seen on March 31 and February 20, respectively.

Red-wings were singing on 13 March 1988, 19 January 1989, and 13 February 1993.

During snowy or icy weather, these birds were sometimes at Llewellyn's feeder (section 4-F-3).

4-G-75. BREWER'S BLACKBIRD

Llewellyn never saw Brewer's at his home or during his walks to or from the Beaver Pond.

4-G-76. BROWN-HEADED COWBIRD

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
87	-	-	?	?	?	?	?	?	?	?	?	?	?	?
88	-	-	?	?	?	?	?	?	?	?	?	?	?	?
89	05/05	-	?	?	?	?	A.	?	?	?	?	?	?	?
90	04/12	08/18	?	?	?	A.	A.	?	?	.Z	?	?	?	?
91	05/02	-	?	?	?	?	A.	?	?	?	?	?	?	?
92	-	-	?	?	?	?	?	?	?	?	?	?	?	?
93	-	-	?	?	?	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ ? ? ? + X ? ? + ? ? ? ?

The lack of summer records may be a result of low observation effort, not this species' absence.

During spring migration at Llewellyn's feeder, there were eight males and six females on 5 May 1989 and four males and 12 females on 9 May 1990. During the summer, they were less abundant.

4-G-77. PURPLE FINCH

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
86	-	-	?	?	?	?	?	.Z	?	?	?	?	?	?
87	-	-	?	?	.Z	?	.Z	?	?	?	?	?	?	?
88	-	-	.Z	?	.Z	?	?	?	?	?	?	?	?	?
89	-	-	?	A.	?	?	?	?	?	?	?	?	?	.Z
90	-	-	?	AZ	?	AZ	?	?	?	?	?	?	?	.Z
91	-	-	?	.Z	?	?	?	?	?	?	?	?	?	?
92	-	-	?	?	?	?	?	?	?	?	?	?	?	?
93	-	-	?	?	?	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ + X X + + + ? ? ? ? ? X

The lack of summer records may be a result of low observation effort, not this species' absence.

During snowy or icy weather, these birds were sometimes at Llewellyn's feeder (section 4-F-3).

4-G-78. HOUSE FINCH

Llewellyn never saw this species at his house or during his walks to or from the Beaver Pond.

4-G-79. RED CROSSBILL

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
90	-	-	?	.Z	?	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ ? + ? ? ? ? ? ? ? ? ?

-----

**4-G-80. PINE SISKIN**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
87	-	-	?	?	?	?	?	?	?	?	?	?	?	?
88	-	-	AZ	?	?	?	?	?	?	?	?	?	?	?
89	-	-	?	?	?	.Z	?	?	?	?	?	?	?	?
90	-	-	?	AZ	?	?	?	?	?	.Z	?	?	?	?
91	-	-	?	?	?	?	?	?	?	?	?	?	?	?
92	-	-	?	?	?	?	?	?	?	?	?	?	?	.Z
93	-	-	?	?	?	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ + + ? + ? ? ? + ? ? ? +  
 On 7 February 1990 during snowy weather, about 30 were at Llewellyn's feeder. During snowy or icy weather, these birds were sometimes at Llewellyn's feeder (section 4-F-3).

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**4-G-81. AMERICAN GOLDFINCH**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
86	-	-	?	?	?	?	?	?	A.	?	?	?	?	?
87	-	-	?	?	?	?	.Z	?	?	?	?	?	?	?
88	-	10/02	?	?	?	?	?	A.	?	?	?	A.	?	?
89	05/04	-	?	?	?	?	A.	?	?	?	?	?	?	?
90	05/01	-	?	?	?	?	A.	?	?	.Z	?	?	?	?
91	05/03	09/08	?	?	?	?	A.	?	?	?	A.	?	?	?
92	-	-	?	?	?	?	?	?	?	?	?	?	?	?
93	-	-	?	?	?	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ ? ? ? ? X + + + + + ? ?  
 On 2 October 1988, 35 were counted. Usually far fewer were noted.

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**4-G-82. EVENING GROSBEAK**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
89	04/29	-	?	?	?	.Z	?	?	?	?	?	?	?	?
90	-	-	?	?	?	?	?	?	.Z	?	?	?	?	?

AV MONTH. FREQ ? ? ? + ? ? + ? ? ? ? ?

-----

**4-G-83. HOUSE SPARROW**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
86	-	-	?	A.	?	?	?	?	A.	?	?	?	?	?
87	-	-	?	?	?	?	?	?	?	?	?	?	?	?
88	-	-	?	?	?	?	?	?	?	?	?	?	?	?
89	-	-	?	?	?	?	?	?	?	?	?	?	?	?
90	-	-	.Z	A.	?	?	?	?	?	?	?	?	?	?
91	-	-	?	?	?	?	?	?	?	?	?	?	?	?
92	-	-	?	?	?	?	?	?	?	?	?	?	?	?
93	-	-	?	A.	?	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ +\* X\* \* \* \* \* +\* \* \* \* \*  
 \* Llewellyn noted that House Sparrows were very common here, although he didn't record them often.

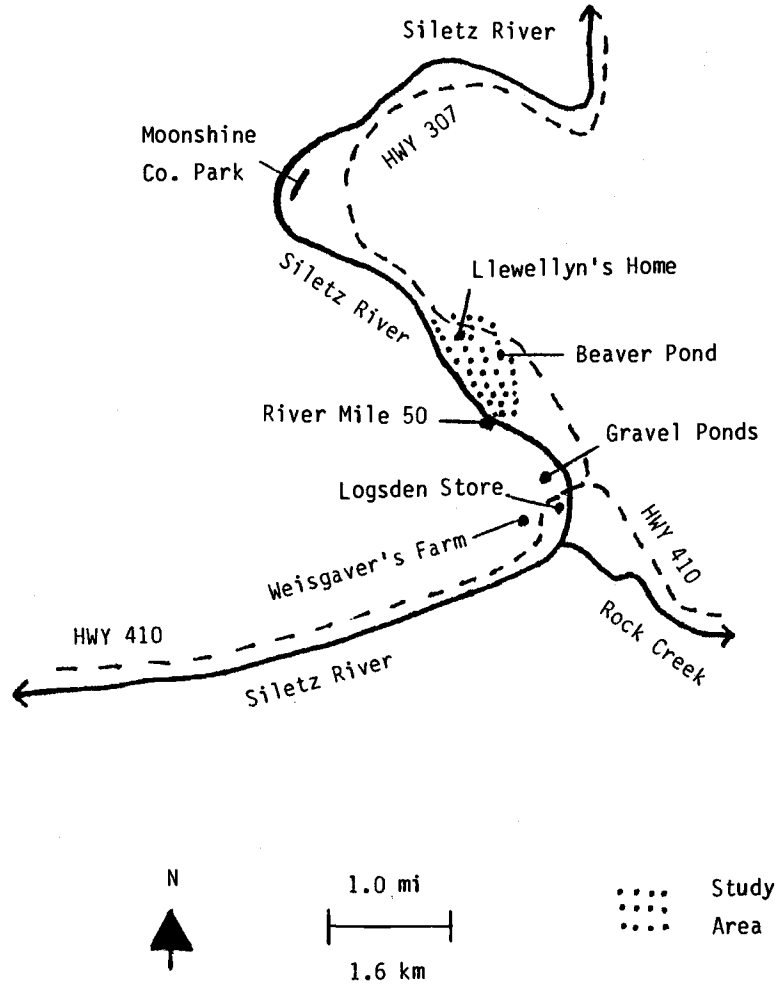
This species sometimes nested here.  
 In 1993, Llewellyn found a House Sparrow nest in one of his nestboxes on top of a dead adult Tree or Violet-green swallow. In two other nestboxes in 1993, House Sparrows are presumed to have hurt swallow nesting: a dead Tree or Violet-green swallow with its head and neck feathers pecked off was found in one nestbox, and another nestbox had four dead Tree or Violet-green swallow nestlings covered with bird droppings.  
 During snowy or icy weather, these birds were sometimes at Llewellyn's feeder (section 4-F-3).

\*\*\*\*\*

4-H. FIGURE AND TABLES

Fig. 4.1. Study Area (dotted) near Bob Llewellyn's home observed for birds. His home is one of those near the western edge of the "Upper

Farm," and the Beaver Pond is noted by a "Per" in the 1984 Euchre Mtn. 7.5' Quadrangle map.



**Table 4.1.** Number of Observation Days and number of Taxa/Observation Day at or near Llewellyn's home. Unknown geese, unknown grouse, and unknown quail were each counted as one taxon.

Codes:  
 N=number of Observations/Month  
 SD=Standard Deviation  
 -=not applicable  
 MAX=maximum (maximum of Means given only if N is two or more).

Yr	Taxa/Observation.....			Taxa/Observation.....			Taxa/Observation.....			Taxa/Observation.....			Taxa/Observation.....					
	January.....	February.....	March.....	April.....	May.....	N	Mean	SD	Range	N	Mean	SD	Range	N	Mean	SD	Range	
86	0	-	-	1	6	-	6	2	2.5	-	2-3	0	-	-	1	3	-	3
87	1	10	-	2	1.0	-	1	6	2.2	2.4	1-7	2	3.0	-	2	8.5	-	2-15
88	7	2.1	2.3	1	1	-	1	3	3.0	1.7	2-5	2	1.0	-	5	1.0	0	1
89	2	1.0	-	4	4.8	4.8	1-11	5	2.2	2.2	1-6	6	3.5	2.6	5	3.2	2.4	1-7
90	6	4.2	3.5	9	4.4	4.4	1-13	4	1.0	0	1	8	4.8	3.1	7	2.1	1.5	1-5
91	6	3.3	4.8	3	4.3	1.5	3-6	5	1.8	0.8	1-3	6	2.3	2.1	3	4.7	4.0	1-9
92	1	5	-	2	5.0	5.7	1-9	1	3	-	3	0	-	-	1	1	-	1
93	2	13.0	2.8	4	3.8	4.3	1-10	4	4.0	3.5	1-7	3	5.3	4.5	0	-	-	-
Yrs	7	-	-	8	-	-	-	8	-	-	-	6	-	-	7	-	-	-
Sum	25	-	-	26	-	-	-	30	-	-	-	27	-	-	24	-	-	-
MAX	7	13.0	-	9	5.0	-	13	6	4.0	-	7	8	5.3	-	7	8.5	-	15

Yr	Taxa/Observation.....			Taxa/Observation.....			Taxa/Observation.....			Taxa/Observation.....			Taxa/Observation.....					
	June.....	July.....	August.....	September.....	October.....	N	Mean	SD	Range	N	Mean	SD	Range	N	Mean	SD	Range	
86	3	2.3	1.2	2	7.0	-	1-13	0	-	-	-	0	-	-	0	-	-	-
87	0	-	-	1	2	-	2	0	-	-	-	0	-	-	0	-	-	-
88	2	8.5	-	2	1.0	-	1	1	1	-	1	0	-	-	3	1.3	0.6	1-2
89	0	-	-	2	1.0	-	1	2	1.5	-	1-2	3	5.0	1.7	1	1	-	1
90	0	-	-	2	1.5	-	1-2	8	2.6	1.8	1-5	3	1.7	0.6	3	2.7	2.1	1-5
91	3	1.3	0.6	2	3.5	-	1-6	1	2	-	2	5	2.2	1.3	1	1	-	1
92	0	-	-	0	-	-	-	0	-	-	-	0	-	-	2	3.5	2.1	2-5
93	2	2.5	0.7	0	-	-	-	0	-	-	-	0	-	-	0	-	-	-
Yrs	4	-	-	6	-	-	-	4	-	-	-	3	-	-	5	-	-	-
Sum	10	-	-	11	-	-	-	12	-	-	-	11	-	-	10	-	-	-
MAX	3	8.5	-	2	7.0	-	13	8	2.6	-	5	5	5.0	-	3	3.5	-	5

Yr	Taxa/Observation.....				Total Observations/Year			
	November.....	December.....	N	Mean				
86	0	-	-	2	3.5	-	1-6	11
87	0	-	-	0	-	-	-	14
88	1	5	-	5	3.2	2.2	1-6	32
89	1	8	-	3	6.0	4.4	1-9	34
90	1	9	-	5	6.8	4.5	2-13	56
91	1	4	-	0	-	-	-	36
92	0	-	-	4	7.5	5.3	1-14	11
93	0	-	-	0	-	-	-	15
Yrs	4	-	-	5	-	-	-	8
Sum	4	-	-	19	-	-	-	209
MAX	1	-	-	5	7.5	-	14	56

**Table 4.2.** Total bird taxa recorded each month and year at or near Llewellyn's home. These data are calculated from Table 4.1 and section 4-G. Unknown geese, unknown grouse, and unknown quail were each counted as one taxon. There were no TOE months (section 4-D).

Codes:  
 Record=one bird taxon seen or heard during one Observation  
 Monthly Records (calculated from Table 4.1)=  
 (number of Observations) X (Mean Taxa/Obs.),  
 rounded to the nearest whole number

Total Records=sum of Monthly Records  
 Total Taxa=total number of taxa recorded each year  
 Records/Taxon=Total Records for year divided by  
 the total number of taxa noted that year  
 Records/Obs.=Total Records for year divided by the  
 number of Observations from Table 4.1  
 .=zero (". " is used to enhance readability)  
 MAX=maximum  
 #Taxa=total number of taxa seen during all of  
 1986-June 1992.

	Taxa/Month.....												Total Records@	Total Taxa	Records per... Taxon	Obs.
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
1986	.	6	4	.	3	6	12	.	.	.	.	7	42	24	1.8	3.8
1987	10	1	11	5	17	.	2	.	.	.	.	.	50	35	1.4	3.6
1988	12	1	9	2	5	17	2	1	.	4	5	14	77	45	1.7	2.4
1989	1	14	11	20	14	.	1	3	10	1	8	13	116	43	2.7	3.4
1990	14	22	2	19	12	.	3	18	4	7	9	17	202	51	4.0	3.6
1991	15	12	6	8	13	4	7	2	6	1	4	.	99	38	2.6	2.8
1992	5	9	3	.	1	.	.	.	.	7	.	21	56	25	2.2	5.1
1993	16	13	12	13	.	5	.	.	.	.	.	.	78	33	2.4	5.2
MAX	16	22	12	20	17	17	12	18	10	7	9	21	202	51	4.0	5.2
60% of MAX	9.6	13.2	7.2	12.0	10.2	10.2	7.2	10.8	6.0	4.2	5.4	12.6	121.2	30.6	-	-
yrs of 60%	5	2	4	3	4	1	1	1	2	2	2	4	1	6	-	-
yrs of TOE	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-	-
#Taxa	28	31	28	36	31	25	22	20	16	18	16	30	-	77	-	-
MAX/#Taxa	0.6	0.7	0.4	0.6	0.5	0.7	0.5	0.9	0.6	0.4	0.6	0.7	-	0.7	-	-

@ There were a grand total of 720 Records.

**Table 4.3.** Number and regularity of bird taxa at or near Llewellyn's home for selected years. These data are calculated from section 4-G only for the six years that had 60% or more of the maximum number of taxa recorded in a year (MAX=51 taxa) in Table 4.2; these years included 1987-1991 and 1993.

Waterbirds=aquatic taxa (e.g., members of heron family, waterfowl, rails, shorebirds, gulls, Belted Kingfisher, and American Dipper). Unknown geese, unknown grouse, and unknown quail were each counted as one taxon.  
 Other Years=number of taxa only found in years with less than 60% of the yearly maximum number of taxa (i.e., 1986 and 1992).

No. of Years with 60% or More of MAX	Waterbirds.....		Terrestrial Birds:	
	No. of Taxa	% of Total	No. of Taxa	% of Total
1	3	42.9	13	19.1
2	2	28.6	12	17.6
3	0	0	11	16.2
4	2	28.6	9	13.2
5	0	0	13	19.1
6	0	0	10	14.7
Sum	7	100.1	68	99.9
Other Years	0	-	2	-



\*\*\*\*\*  
**Chap. 5. LANDBIRDS NEAR MOONSHINE COUNTY PARK**  
 \*\*\*\*\*

**5-A. INTRODUCTION**

This is an amalgamation of 23 observations and 28 records that were mostly made by Bob Llewellyn (Table 5.1). Waterbird records for the Siletz River in this area are given elsewhere (Llewellyn and Bayer 1994: Table 2.3).

Information about individual species is in section 5-D.

\*\*\*\*\*  
**5-B. STUDY AREA, METHODS, & SHORTCOMINGS**

Location: Township 9S, Range 9W, Sections 19, 20, & 29  
 Area Studied: ?  
 Habitat(s) Studied: Unknown  
 Elevation: <1000 ft (<305 m)  
 Distance to Coastline: >11.3 mi (>18.3 km).

All observations are within 1.5 mi (2.4 km) of the Park, in the Siletz River Valley, east of the Siletz River, north of Llewellyn's home study area (Chap. 4), and probably south of the north end of the Park (Fig. 4.1). There was only one observation within the Park itself.

Shortcomings are that there are few observations, observation effort is unknown, and the site of observations is usually not precisely known.

\*\*\*\*\*  
**5-C. TABLE**

**Table 5.1.** Number of landbird observations and records per observer near Moonshine County Park during 1983-1991. .=zero.

Observer	Observations.....			Records.....		
	1980-1989	1990-1991	Total	1980-1989	1990-1991	Total
Bob Llewellyn	15	5	20	18	7	25
Floyd Schrock	2	.	2	2	.	2
Dale Snow	1	.	1	1	.	1
<b>TOTAL</b>	<b>18</b>	<b>5</b>	<b>23</b>	<b>21</b>	<b>7</b>	<b>28</b>

\*\*\*\*\*

5-D. SPECIES ACCOUNTS

Codes:  
 (number)=year in which a taxon was recorded  
 (e.g., 90=1990)  
 ?=species not recorded, so the species may have  
 been absent or it may have been present but  
 overlooked.

Years of occurrence of landbird species near  
 Moonshine County Park. These data are calculated  
 from the individual observations, which are not  
 given elsewhere.

Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Turkey Vulture	?	?	88	?	?	?	?	89,90	?	?	?	?
On 16 August 1990, Llewellyn saw four Turkey Vultures, a Red-tailed Hawk, and a Sharp-shinned Hawk flying in the same thermal; it is unknown if they were migrating.												
Black-shouldered Kite	83	?	?	?	?	?	?	?	?	?	?	?
On 23 January 1983, Schrock saw two kites.												
Sharp-shinned Hawk	?	?	?	?	?	?	?	90	?	?	?	?
On 16 August 1990, Llewellyn saw four Turkey Vultures, a Red-tailed Hawk, and a Sharp-shinned Hawk flying in the same thermal; it is unknown if they were migrating.												
Red-tailed Hawk	?	?	88	?	?	?	?	90	?	89	?	?
On 16 August 1990, Llewellyn saw four Turkey Vultures, a Red-tailed Hawk, and a Sharp-shinned Hawk flying in the same thermal; it is unknown if they were migrating.												
American Kestrel	?	91	86,87,89	?	?	87	?	?	?	89	86	?
On 5 June 1987, a kestrel was flying with a snake, perhaps to a nest, across from Socia's about a mile northwest of Llewellyn's home (Fig. 4.1); also in 1987, Llewellyn saw one kestrel in this area on June 6 and 16. So it is possible that they may have been nesting in this area in 1987.												
Gyr Falcon	?	?	?	?	?	?	?	?	?	?	?	87
On 26 December 1987, Snow reported one gray-phase Gyr Falcon that is unconfirmed; no other details are available.												
Western Kingbird	?	?	?	?	87	?	?	?	?	?	?	?
On 13 and 16 May 1987, Llewellyn saw one Western Kingbird.												
Western Bluebird	?	?	85,87	?	?	?	?	?	?	?	?	?
On 2 March 1985, Schrock saw three Western Bluebirds; on 22 March 1987, Llewellyn saw a pair.												
American Robin	90	?	?	?	?	?	?	?	?	?	?	?
On 24 January 1990, Llewellyn saw about 100 robins in a field.												
American Pipit	?	?	?	?	?	?	?	?	?	89	?	?
On 4 October 1989, Llewellyn saw 20 pipits, which is many more than is usually seen in Lincoln County.												
Savannah Sparrow	?	?	?	87	88	?	86	?	?	?	?	?
White-throated Sparrow	?	?	?	91	?	?	?	?	?	?	?	?
On 8 April 1991, Llewellyn saw one White-throated Sparrow.												
Western Meadowlark	?	?	?	87	?	?	?	?	?	?	?	?
American Goldfinch	?	?	?	?	?	91	?	?	?	?	?	?
On 16 June 1991, Llewellyn saw about 50 American Goldfinches, a large concentration.												

\*\*\*\*\*  
**Chap. 6. LANDBIRDS AT OR NEAR THE LOGSDEN STORE, GRAVEL PONDS, AND WEISGAVER'S FARM**  
 \*\*\*\*\*

**6-A. INTRODUCTION**

This is an amalgamation of 36 observations and 67 records made by Bob Llewellyn (Table 6.1). Waterbird records for the Logsdan Gravel Ponds are given elsewhere (Llewellyn et al. 1994: Chap. 3). Information about individual species is in section 6-D.

\*\*\*\*\*  
**6-B. STUDY AREA, METHODS, & SHORTCOMINGS**

Location: Township 9S, Range 9W, Section 33  
 Area Studied: ?  
 Habitat(s) Studied: Unknown  
 Elevation: 180-240 ft (55-73 m)  
 Distance to Coastline: 12.7-13.0 mi (20.6-21.1 km).

All observations are within 0.5 mi (0.8 km) of the Logsdan Store, Gravel Ponds, and Weisgaver's farm (Fig. 4.1). The shortcomings are that there are few observations and observation effort is unknown and usually low.

\*\*\*\*\*  
**6-C. TABLE**

**Table 6.1.** Number of landbird observations and records per observer at or near the Logsdan Store, Gravel Ponds, and Weisgaver's farm during 1986-1991. .=zero.

Observer	Observations.....			Records.....		
	1980-1989	1990-1991	Total	1980-1989	1990-1991	Total
Bob Llewellyn	17	19	36	20	47	67

\*\*\*\*\*  
**6-D. TAXA ACCOUNTS**

Years of occurrence of landbird taxa at or near the Logsdan Store, Gravel Ponds, and Weisgaver's farm (Fig. 4.1). These data are calculated from the individual observations, which are not given elsewhere.

Codes:  
 (number)=year in which a taxon was recorded (e.g., 90=1990)  
 ?=species not recorded, so the species may have been absent or it may have been present but overlooked  
 PST=Pacific Standard Time by the 24 hour clock (add 1300 to times after 1200; 1 PM=1300).

Taxon	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Turkey Vulture	?	?	?	?	91	?	?	?	?	?	?	?
Black-shouldered Kite	?	87	?	?	?	?	?	?	?	?	?	?
On 10 February 1987, one kite was seen at Weisgaver's farm.												
Northern Harrier	?	?	?	?	90	?	?	?	?	?	?	?
On 27 May 1990, one adult male harrier was at the Gravel Ponds.												
Red-tailed Hawk	?	87	?	?	91	?	?	?	?	?	?	?
American Kestrel	?	87	?	91	?	?	?	?	?	?	?	?
unknown quail	91	?	?	?	?	?	?	?	?	?	?	?
On 24 January 1991, 25 quail were at the Gravel Ponds.												
Northern Flicker	?	?	?	?	?	?	?	90	?	?	?	?
Willow Flycatcher	?	?	?	?	90	?	?	?	?	?	?	?

(section 6-D continued on next page)

(section 6-D continued)

Taxon	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
unknown swallows	?	?	90,91	?	?	?	88,90	91	89,90,91	?	?	?
FALL.--On 2 July 1988, adult and fledgling swallows were flocking on wires; on 5 & 10 September 1989, several hundred were present; on 25 July 1990, many were perched on wires. In September 1990, hundreds were present on the 4th at 0700 PST, but none were present at 0700 PST on the 6th and 7th. In 1991, none were present in the morning or afternoon on September 11, but there were over a hundred on the wires on September 12 at 1700 PST.												
SPRING.--On 17 March 1990, 200-300 were at the Store; on 22 March 1991, about 30 were counted.												
Tree Swallow	?	?	87	87,90	91	?	?	?	?	?	?	?
Also see unknown swallows. On 16 April 1987, 40 were at the Gravel Ponds.												
Violet-green Swallow	?	88	89	87,90	90,91	?	?	?	?	?	?	?
Also see unknown swallows. On 21 February 1988, they were already at Weisgaver's farm; on 16 March 1989, at least 25 were at the Store.												
No. Rough-winged Swallow	?	?	?	?	90,91	?	?	?	?	?	?	?
Also see unknown swallows. On 25 May 1991, some were nesting under the Logsdens Bridge over the Siletz River along Highway 410.												
Cliff Swallow	?	?	?	90	89,90,91	?	?	?	?	?	?	?
Also see unknown swallows. On 11 May 1989, six pairs were building nests on the west side of the Store.												
Barn Swallow	?	?	?	90	90	?	?	89,90	?	?	?	?
Also see unknown swallows.												
American Crow	?	?	?	?	90	?	?	?	?	?	?	?
Common Raven	?	?	?	?	?	?	?	?	91	?	?	?
Black-capped Chickadee	?	?	?	?	?	?	?	90	?	?	?	?
Western Bluebird	?	?	?	?	86	?	?	?	?	?	?	?
On 1 May 1986, one Western Bluebird was at Weisgaver's farm.												
Swainson's Thrush	?	?	?	?	?	?	?	90	?	?	?	?
Cedar Waxwing	?	?	?	?	?	?	86	90	?	?	?	?
On 12 August 1990, about 100 waxwings were at the Gravel Ponds; they may have been migrating.												
European Starling	?	?	?	?	90	?	?	90	?	?	?	?
On 12 August 1990, about 200-300 starlings came to the Gravel Ponds to roost at night.												
Yellow-rumped Warbler	91	?	?	?	?	?	?	?	?	?	?	?
On 24 January 1991, three Yellow-rumps were at the Gravel Ponds.												
Common Yellowthroat	?	?	?	90	91	?	?	90	?	?	?	?
On 4 April 1990, yellowthroats had already arrived at the Gravel Ponds.												
Wilson's Warbler	?	?	?	?	?	?	?	90	?	?	?	?
Savannah Sparrow	?	?	?	87	88,91	?	86	90	?	?	?	?
Song Sparrow	?	?	?	?	?	?	?	90	?	?	?	?
Lincoln's Sparrow	?	?	?	89	?	?	?	?	?	?	?	?
White-crowned Sparrow	?	?	?	87	?	?	?	?	?	?	?	?
Red-winged Blackbird	?	?	?	90	90,91	?	?	?	?	?	?	?
On 27 May 1990, one Red-wing was at a nest at the Gravel Ponds.												
Purple Finch	?	?	?	?	90	?	?	?	?	?	?	?
American Goldfinch	?	?	?	?	90	?	?	?	?	?	?	?
On 27 May 1990, a female American Goldfinch was carrying nesting material.												

\*\*\*\*\*  
**Chap. 7. BIRDS RECORDS FOR THE LOGSDEN AREA NOT GIVEN ELSEWHERE**  
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**7-A. INTRODUCTION**

Bob Llewellyn lives near Logsdan (Fig. 4.1), made 256 of the 273 observations, and recorded 1598 of the 1621 records in this Chapter (Table 7.4).

**7-B. STUDY AREA**

Location: Township 9S, Range 9W  
 Area Studied: ?  
 Habitat(s) Studied: Unknown (probably mixed)  
 Elevation: 160?-1000? ft (49?-305? m)  
 Distance to Coastline: >10 mi ? (>16 km ?)

It is unfortunate that the location of these observations is not better known. All were probably within a 3 mi (5 km) radius of the Logsdan Store, and many of them may have been near Llewellyn's home (Fig. 4.1) but were not noted as such in his field notes.

**7-C. METHODS**

Llewellyn's observations were made incidentally with or without binoculars. He did not try to make systematic observations, so more birds may have been present than were recorded. He did not record the time of day or duration of his observations.

There were several other observers (Table 7.4), and their observations were also incidentally made. Floyd Schrock had some observations not included in Schrock and Bayer (1994) for the Logsdan area that are not given here because they may have been farther than a 3 mi (5 km) radius from the Logsdan Store.

**7-D. TOLERABLE OBSERVATION EFFORT (TOE)**

The term Tolerable Observation Effort (TOE) is used to emphasize that if certain criteria are attained, effort is judged Tolerable (i.e., moderately good or passable), so that observations can be considered as presence/absence data, not just as presence data (Bayer 1993:14-15).

Because these observations were incidentally made and observation effort was variable (Table 7.1), none of these months are classed as TOE.

\*\*\*\*\*  
**7-E. SHORTCOMINGS OF OBSERVATIONS**

**7-E-1. INTRODUCTION**

In any ornithological undertaking there are shortcomings, and this is no exception. Many possible shortcomings are examined in Bayer (1993:28-31); here, only the most relevant ones are examined.

**7-E-2. SHORTCOMING: IMPRECISE STUDY AREA**

It would have been much more informative if the exact location of these observations was known, so that these records could be attributed to a much smaller, more defined area.

**7-E-3. SHORTCOMING: OVERLOOKING SPECIES**

Because observers did not attempt to systematically record all species, many may have been missed, particularly shy or inconspicuous species. Further, observers may also have consistently recorded species with which they were familiar and overlooked unfamiliar species.

**7-E-4. SHORTCOMING: LOW OBSERVATION EFFORT**

Observers made few or no observations during many months, particularly during August-November (Table 7.1). Thus, the seasonality of many bird species is not as clear as it would have been if there had consistently been three or more observations/month. Because of the usually low observation effort, these records are best considered as presence data, not presence/absence data (Bayer 1993:14-15).

**7-E-5. SHORTCOMING: ERRORS IN DETERMINING FIRST AND LAST DATES**

Dates when an observer first or last reported a species are given, if available. However, species may have been present before the First date or after the Last date because observation

effort was not daily and often may not have been long enough to detect all passing migrants. The accuracy of First and Last dates is examined in detail in Faxon and Bayer (1991:29-31).

\*\*\*\*\*

7-F. GENERAL RESULTS AND DISCUSSION

7-F-1. NUMBER OF TAXA

Few taxa were usually recorded each observation, and the most ever reported was 26 in April 1985 (Table 7.1). The average number of taxa/observation was usually less than 10 (Table 7.1).

The range in the maximum number of taxa noted each month was 11-36, and the range in total taxa/month for all years was 20-59 (Table 7.2). Because of low observation effort during August-November (Table 7.1), it is unclear if there were any seasonal trends in the number of taxa/month, although there appears to be at least one peak in April/May.

There was a total of 108 taxa, with a range of 8-65 taxa/year (Table 7.2). The greatest number of species was recorded in 1984--the year with the greatest number of observation days and total records (Tables 7.1 and 7.2).

17 taxa were waterbirds, and 53% of these were noted in only one or two of the years with many observations (Table 7.3). In contrast, 39% of the 88 terrestrial bird taxa were recorded in only 1-2 years (Table 7.3).

The species recorded in each year with many observations included Turkey Vulture, American Kestrel, Rufous Hummingbird, Northern Flicker, Steller's Jay, American Crow, American Robin, Rufous-sided Towhee, Song and White-crowned sparrows, Dark-eyed Junco, and Purple Finch (section 7-G).

7-F-2. NESTING SPECIES

Species with adults at a nest, with nestlings, or with fledged or nonfledged young still receiving parental care include Hooded Merganser, Barn Swallow, American Crow, Black-capped Chickadee, Bushtit, American Robin, Hermit Warbler, and House Finch (section 7-G). But searches for nests may have revealed that other species may have also nested, since they were often present during the nesting season (section 7-G).

7-F-3. FALL PASSERINE MIGRATION WAVES

In August, there was sometimes a major movement of migrating passerines near Logsden, similar to what was reported at Thornton Creek (Faxon and Bayer 1991:31-32, 1993:78-80).

Floyd Schrock reported that on 13, 20, and 21 August 1983, there were many Hermit, Townsend's,

Black-throated Gray and Wilson's Warblers, as well as intermittent Brown Creepers, Western Tanagers, Nashville Warblers (8/21), and Solitary Vireos.

Bob Llewellyn noted large concentrations of swallows on 15 and 16 August 1989 and 12 September 1990 (sections 7-G-54 and 7-G-57) that may be related to migration.

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7-G. TAXA ACCOUNTS

7-G-1. YEARS WITHOUT RECORDS

A year may be listed for a taxon even though the taxon was not recorded that year. This is done to make it clearer that a taxon was not found every year. Years of absence are given particularly for taxa that are present nearly every year.

7-G-2. FIRST AND LAST DATES

These are the first and last dates, respectively, that a taxon was recorded. Note that a taxon may have been present before a First or after a Last date (Faxon and Bayer 1991:29-31). A First or Last date is only listed if there appears to be enough observations to somewhat accurately determine the date.

--not possible to assign a First or Last date because the bird taxon was present continually or erratically throughout the year, because observation effort may have been inadequate to determine the First or Last date reasonably accurately, or because the date was not recorded.

7-G-3. SEMIMONTHLY FREQUENCY

A.=taxon recorded in the first part (1-15th) of a month; it wasn't noted later that month.  
.Z=taxon recorded from the 16th to the end of a month; it wasn't noted earlier that month.  
AZ=taxon recorded during both portions (1-15th and 16th-end) of a month.  
PP=taxon recorded sometime during the month.  
?=taxon not recorded during a month. It is not possible to determine if the absence is from low observation effort or the absence of the taxon.

7-G-4. AVERAGE MONTHLY FREQUENCY

AV MONTH. FREQ=average monthly frequency of occurrence of a taxon (e.g., Bayer 1993:20).  
+=taxon recorded during one month.  
X=taxon recorded during two or more months.  
?=the taxon was not recorded but there were no observations or observation effort may have been inadequate to detect it.

7-G-5. GREAT BLUE HERON

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
81	-	-	?	?	?	?	?	?	?	?	?	?	A.	?
82	-	-	?	?	?	?	?	?	?	?	?	?	?	?
83	-	-	?	?	?	.Z	?	?	?	?	?	?	?	?
84	-	-	?	?	?	?	?	?	AZ	.Z	?	?	?	?
85	-	-	?	?	AZ	?	?	?	?	?	?	?	?	?
86	-	-	?	?	?	?	?	?	?	?	?	?	?	?
87	-	-	?	?	?	?	?	?	?	?	?	?	?	?
88	-	-	?	?	?	?	?	?	.Z	?	?	?	?	?

AV MONTH. FREQ ? ? + + ? ? X + ? ? + ?

7-G-6. CATTLE EGRET

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
84	12/08	12/08	?	?	?	?	?	?	?	?	?	?	?	A.

AV MONTH. FREQ ? ? ? ? ? ? ? ? ? ? ? +

Llewellyn saw 38; Schrock saw the same birds on the same day (Schrock and Bayer 1994: section H-8).

7-G-7. GREEN-BACKED HERON

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
84	05/13	08/30	?	?	?	?	AZ	A.	.Z	.Z	?	?	?	?
85	04/08	-	?	?	?	A.	?	?	?	?	?	?	?	?
86	05/A	-	?	?	?	?	A.	?	?	?	?	?	?	?
87	04/24	-	?	?	?	.Z	?	?	?	?	?	?	?	?
88	-	-	?	?	?	?	.Z	?	A.	?	?	?	?	?

AV MONTH. FREQ ? ? ? X X + X + ? ? ? ?

7-G-8. TUNDRA SWAN

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
84	02/04	02/04	?	A.	?	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ ? + ? ? ? ? ? ? ? ? ? ?

Peter Schrock once saw seven fly over.

7-G-9. GR. WHITE-FRONTED GOOSE

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
84	05/05	05/05	?	?	?	?	A.	?	?	?	?	?	?	?

AV MONTH. FREQ ? ? ? ? + ? ? ? ? ? ? ? ?

Llewellyn saw about 50 fly over his home.

Also see Canada Goose.

7-G-10. CANADA GOOSE

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
85	04/08	04/08	?	?	?	A.	?	?	?	?	?	?	?	?
86	10/17	10/18	?	?	?	?	?	?	?	?	?	.Z	?	?

AV MONTH. FREQ ? ? ? + ? ? ? ? ? + ? ?

Llewellyn saw an unspecified number fly over in 1985.

In 1986, Llewellyn saw 25 and 40 flying on October 17 and 18, respectively.

While these were probably all Canada Geese, it is possible that some White-fronteds may have been overlooked.

7-G-11. WOOD DUCK

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
84	-	-	?	?	?	?	AZ	?	?	?	?	?	?	?

AV MONTH. FREQ ? ? ? ? + ? ? ? ? ? ? ? ?

7-G-12. MALLARD

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
83	-	-	?	?	?	AZ	?	?	?	?	?	?	?	?
84	-	-	?	?	?	.Z	?	AZ	?	?	?	?	?	?
85	-	-	?	.Z	A.	?	A.	?	?	?	?	?	?	?

AV MONTH. FREQ ? + + X + + ? ? ? ? ? ?

7-G-13. HOODED MERGANSER

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
84	-	-	?	?	?	?	A.	A.	?	?	?	?	?	?
85	-	-	?	?	?	?	?	?	?	?	.Z	?	?	?
86	-	-	?	?	?	?	A.	?	?	?	?	?	?	?

AV MONTH. FREQ ? ? ? ? X + ? ? + ? ? ?

In 1986, Peter Schrock saw a female with a brood of ten on May 14.

7-G-14. COMMON MERGANSER

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
87	-	-	?	?	?	?	?	?	?	?	?	?	?	.Z

AV MONTH. FREQ ? ? ? ? ? ? ? ? ? ? ? +

7-G-15. TURKEY VULTURE

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
82	03/20	-	?	?	.Z	?	?	?	?	?	?	?	?	?
83	03/31	-	?	?	.Z	AZ	A.	?	?	?	?	?	?	?
84	03/22	-	?	?	.Z	AZ	AZ	AZ	.Z	.Z	?	?	?	?
85	04/08	09/28	?	?	?	AZ	A.	A.	?	.Z	.Z	?	?	?
86	-	-	?	?	?	?	A.	.Z	?	?	?	?	?	?
87	03/22	-	?	?	.Z	?	.Z	?	?	?	?	?	?	?
88	03/14	10/01	?	?	A.	.Z	AZ	?	.Z	?	?	A.	?	?
89	03/13	-	?	?	A.	AZ	A.	?	?	?	?	?	?	?
90	02/28	-	?	.Z	.Z	A.	?	?	?	A.	?	?	?	?
91	-	-	?	?	?	?	?	.Z	?	?	?	?	?	?

AV MONTH. FREQ ? + X X X X X X + + ? ?

7-G-16. BLACK-SHOULDERED KITE

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
82	-	-	?	?	?	?	?	?	?	?	?	?	?	A.
83	-	-	?	?	?	?	?	?	?	?	?	?	?	?
84	-	-	?	?	?	?	?	?	.Z	?	?	?	?	?
85	-	-	?	?	?	?	?	?	?	?	?	?	?	?
86	-	-	?	?	?	?	?	?	?	?	?	?	?	?
87	-	-	AZ	A.	A.	?	.Z	?	?	?	?	?	?	.Z
88	-	-	A.	?	?	?	?	?	?	?	.Z	?	?	.Z
89	-	-	?	?	?	A.	?	?	?	?	?	?	?	?
90	-	-	?	?	?	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ X + + + + ? + ? + ? ? X

Usually only one was seen at a time, but Llewellyn found two on 5 December 1982.

**7-G-17. BALD EAGLE**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
84	05/18	05/18	?	?	?	?	.Z	?	?	?	?	?	?	?

AV MONTH. FREQ ? ? ? ? + ? ? ? ? ? ? ?  
 Llewellyn saw one of an unknown age class.

**7-G-18. NORTHERN HARRIER**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
82	-	-	?	?	.Z	?	?	?	?	?	?	?	?	?
83	-	-	?	?	?	?	?	?	?	?	?	?	?	?
84	-	-	?	?	?	.Z	?	?	?	?	?	?	?	?
85	-	-	?	?	A.	.Z	?	?	?	?	?	?	?	?
86	-	-	?	?	?	?	?	?	?	?	?	.Z	?	?
87	-	-	?	?	?	A.	?	A.	?	?	?	?	?	?
88	-	-	?	?	?	?	?	?	?	?	?	?	?	?
89	-	-	A.	?	.Z	?	?	?	?	?	?	?	?	?
90	-	-	?	?	?	?	A.	?	?	?	?	?	?	?
91	-	-	?	?	?	?	AZ	?	?	?	?	?	A.	?

AV MONTH. FREQ + ? X X X ? + ? ? + + ?  
 Only one was seen at a time.

Because the sex ratio of harriers found here appears to be skewed, the plumage for each record is given (if known) in the following tabulation (M=adult male [gray], F=female or immature male [brown], UNK=unknown):

Number & Plumage Type.....			
Date	M	F	UNK
3-25-82	.	.	1
4-25-84	.	1	.
3-15-85	.	.	1
4-21-85	.	.	1
10-16-86	.	.	1
4-2-87	.	.	1
7-14-87	.	1	.

Sum M=6, F=2, UNK=6

Note that even if all unknown birds were brown (which is unlikely) that the ratio would only slightly favor the brownish birds. All of these were seen by Bob Llewellyn, who reported a similar ratio favoring adult males at his home (section 4-G-11). These results are in marked contrast to South Beach Peninsula, where only four of 26 harriers were adult males (Bayer 1991:15).

**7-G-19. SHARP-SHINNED HAWK**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
83	-	-	?	?	?	A.	?	?	?	?	?	?	?	?
84	-	-	?	?	?	?	?	?	?	?	?	?	?	?
85	-	-	?	?	?	?	?	?	?	?	?	.Z	?	?
86	-	-	?	?	?	?	?	?	?	?	?	A.	?	?
87	-	-	?	?	?	?	?	?	?	?	?	?	?	?
88	-	-	?	?	?	?	?	?	?	?	?	?	?	?
89	-	-	?	?	?	?	?	?	?	?	?	?	?	?
90	-	-	?	?	?	?	?	?	?	A.	?	?	?	?

AV MONTH. FREQ ? ? ? + ? ? ? + ? X ? ?

**7-G-20. COOPER'S HAWK**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
85	-	-	?	.Z	A.	?	?	?	?	?	?	?	?	AZ
88	-	-	?	?	?	?	?	?	?	?	?	?	?	.Z
91	-	-	?	?	?	A.	?	?	?	?	?	?	?	?

AV MONTH. FREQ ? + + + ? ? ? ? ? ? ? X

**7-G-21. NORTHERN GOSHAWK**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
82	03/24	03/24	?	?	.Z	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ ? ? + ? ? ? ? ? ? ? ? ?  
 One was once seen by Dave Nafziger.

**7-G-22. RED-TAILED HAWK**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
84	-	-	?	?	.Z	.Z	?	AZ	.Z	.Z	?	?	?	?
85	-	-	AZ	?	A.	?	?	?	?	?	.Z	.Z	?	?
86	-	-	?	?	?	?	?	?	?	?	?	?	?	A.
87	-	-	A.	?	?	?	?	?	?	?	?	?	?	?
88	-	-	?	?	?	.Z	?	A.	?	?	?	?	?	?
89	-	-	.Z	A.	?	A.	?	?	?	AZ	?	?	?	?
90	-	-	A.	.Z	?	?	?	?	?	A.	?	?	?	?

AV MONTH. FREQ X X X X ? + X X + + ? +  
 Usually only one was seen at a time, but two were sometimes noted.

**7-G-23. AMERICAN KESTREL**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
81	-	-	?	?	?	?	?	?	?	?	?	?	A.	?
82	-	-	?	?	?	?	?	?	?	?	?	?	?	?
83	-	-	?	?	?	A.	?	?	?	?	?	?	?	?
84	-	-	?	?	.Z	A.	?	?	?	?	?	?	?	A.
85	-	-	?	?	?	A.	A.	?	?	?	?	?	?	?
86	-	-	?	?	?	?	?	?	?	?	?	?	?	.Z
87	-	-	A.	?	A.	?	?	?	?	?	?	?	?	?
88	-	-	?	?	?	?	A.	?	?	?	?	?	?	.Z
89	-	-	AZ	?	?	A.	?	?	?	?	?	?	?	?
90	-	-	.Z	?	?	?	?	?	?	?	?	?	?	?
91	-	-	?	A.	?	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ X + X X X ? ? ? ? ? + X  
 Only 1-2 were found at a time.

**7-G-24. MERLIN**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
82	04/11	04/11	?	?	?	A.	?	?	?	?	?	?	?	?
87	03/22	04/11	?	?	.Z	A.	?	?	?	?	?	?	?	?

AV MONTH. FREQ ? ? + X ? ? ? ? ? ? ? ?  
 Only one at a time was seen.



**7-G-25. RUFFED GROUSE**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
83	-	-	?	?	.Z	AZ	A.	?	?	?	?	?	?	?
84	-	-	?	?	?	?	A.	?	?	?	?	?	?	?
87	-	-	?	?	?	A.	?	?	?	?	?	?	?	?
88	-	-	?	?	?	?	?	?	?	?	?	?	?	?
89	-	-	?	?	?	?	?	?	?	?	?	?	?	?
90	-	-	?	?	?	?	?	?	?	?	?	?	?	A.

AV MONTH. FREQ ? ? + X X ? ? ? ? ? ? +  
One was drumming on 10 April 1987.

**7-G-26. UNKNOWN QUAIL**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
85	-	-	?	?	?	?	?	?	?	?	.Z	?	?	?
90	-	-	?	?	?	?	?	?	?	?	?	?	?	.Z

AV MONTH. FREQ ? ? ? ? ? ? ? ? + ? ? ? +  
These were probably Mountain Quail.

**7-G-27. MOUNTAIN QUAIL**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
87	-	-	?	?	?	?	?	?	?	?	?	?	?	.Z

AV MONTH. FREQ ? ? ? ? ? ? ? ? ? ? ? ? +  
Also see unknown quail.

**7-G-28. VIRGINIA RAIL**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
84	-	-	?	?	?	.Z	?	?	?	?	?	?	?	?
85	-	-	?	?	?	?	?	?	?	?	?	A.	?	?
89	-	-	?	?	?	.Z	?	?	?	?	?	?	?	?

AV MONTH. FREQ ? ? ? X ? ? ? ? ? ? + ? ?

**7-G-29. KILLDEER**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
84	-	-	?	?	?	?	?	?	.Z	.Z	?	?	?	?
85	-	-	?	?	A.	?	?	?	?	?	?	?	?	AZ
86	-	-	?	.Z	?	?	?	?	?	?	?	?	?	?
87	-	-	?	?	?	?	?	?	?	?	?	?	?	?
88	-	-	?	?	?	?	A.	?	?	?	?	?	?	?

AV MONTH. FREQ ? + + ? + ? + + ? ? ? +

**7-G-30. SPOTTED SANDPIPER**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
88	-	-	?	?	?	?	?	?	A.	?	?	?	?	?

AV MONTH. FREQ ? ? ? ? ? ? + ? ? ? ? ?

**7-G-31. COMMON SNUIPE**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
83	05/04	05/04	?	?	?	?	A.	?	?	?	?	?	?	?
84	04/30	05/04												
84	10/10	10/10	?	?	?	.Z	A.	?	?	?	?	?	A.	?
85	10/20	04/20	.Z	?	A.	.Z	?	?	?	?	?	?	.Z	.Z
86	-	-	?	?	?	?	?	?	?	?	?	?	?	.Z
87	-	-	?	?	?	?	?	?	?	?	?	?	?	?
88	-	-	?	?	?	?	?	?	?	?	?	?	?	?
89	-	-	?	?	?	?	?	?	?	?	?	?	?	?
90	04/01	04/01	?	?	?	A.	?	?	?	?	?	?	?	?

AV MONTH. FREQ + ? + X X ? ? ? ? X X ?

**7-G-32. UNKNOWN GULLS**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
83	04/12	04/19	?	?	?	AZ	?	?	?	?	?	?	?	?

AV MONTH. FREQ ? ? ? + ? ? ? ? ? ? ? ? ?  
Llewellyn saw at least one on both dates; no other information is available.

**7-G-33. ROCK DOVE**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
92	-	-	A.	?	?	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ + ? ? ? ? ? ? ? ? ? ? ?  
On 1 January 1992, Dawson and Bobby Mohler saw 14 on a barn roof just west of Logsdan. In February 1993, Llewellyn commented that the farmers there feed them. Accordingly, Rock Doves are much more common here than this single record would indicate and have been overlooked.

**7-G-34. BAND-TAILED PIGEON**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
83	04/25	-	?	?	?	.Z	A.	?	?	?	?	?	?	?
84	04/22	-	?	?	?	.Z	AZ	AZ	.Z	?	?	?	?	?
85	04/21	-	?	?	?	.Z	A.	?	?	?	?	?	?	?
86	-	-	?	?	?	?	?	?	?	?	?	?	?	?
87	-	-	?	?	?	?	.Z	?	?	?	?	?	?	?
88	-	-	?	?	?	?	AZ	?	.Z	?	?	?	?	?
89	-	-	?	?	?	?	.Z	?	?	?	?	?	?	?
90	-	-	?	?	?	?	?	?	?	?	?	?	?	?
91	-	-	?	?	?	?	?	A.	?	?	?	?	?	?

AV MONTH. FREQ ? ? ? X X X + + ? ? ? ?  
In 1989, Llewellyn saw 10 on May 21, and, in 1991, he counted 15-20 on June 1. Llewellyn usually saw only 4-5 at a time.

**7-G-35. MOURNING DOVE**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
86	-	-	?	?	?	?	?	?	?	?	?	?	?	?
87	05/17	05/17	?	?	?	?	.Z	?	?	?	?	?	?	?
88	-	-	?	?	?	?	?	?	?	?	?	?	?	?
89	05/21	05/21	?	?	?	?	.Z	?	?	?	?	?	?	?
90	-	-	?	?	?	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ ? ? ? ? X ? ? ? ? ? ? ? ?  
Only 1-2 were found at a time.

7-G-36. BARN OWL

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
83	-	-	?	?	?	?	?	?	.Z	?	?	?	?	?
84	-	-	?	?	?	?	A.	.Z	?	.Z	?	?	?	?
85	-	-	?	?	?	?	?	?	?	?	?	?	?	?
86	-	-	?	A.	?	?	?	?	?	?	?	A.	?	?
87	-	-	?	?	?	.Z	?	.Z	?	?	?	?	?	?
88	-	-	A.	?	?	?	?	?	.Z	?	?	?	?	?
89	-	-	.Z	?	?	?	?	?	?	?	?	?	?	?
90	-	-	?	?	?	?	A.	?	?	?	?	?	?	?
91	-	-	?	?	?	?	?	?	?	?	A.	?	?	?

AV MONTH. FREQ X + ? + X X + X + + ? ?  
 Except for 17 April 1987, when Llewellyn recorded two, only one at a time was noted.

7-G-37. WESTERN SCREECH-OWL

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
83	-	-	?	?	?	AZ	?	?	?	?	?	?	?	?
84	-	-	?	?	?	?	?	?	?	?	?	?	?	?
85	-	-	?	?	?	?	?	?	?	?	?	?	?	.Z
86	-	-	?	?	?	?	A.	?	?	?	A.	?	?	?
87	-	-	?	?	?	?	?	?	?	?	?	?	?	?
88	-	-	?	?	?	?	?	?	?	?	?	?	?	?
89	-	-	?	?	?	?	?	?	?	?	?	?	?	?
90	-	-	?	?	?	?	?	?	?	A.	?	?	?	?

AV MONTH. FREQ ? ? ? + ? + ? ? + + ? +

7-G-38. SHORT-EARED OWL

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
84	11/22	-	?	?	?	?	?	?	?	?	?	?	.Z	.Z
85	-	01/07	A.	?	?	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ + ? ? ? ? ? ? ? ? ? ? + +  
 Only one was seen at a time.

7-G-39. COMMON NIGHTHAWK

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
84	06/16	-	?	?	?	?	?	.Z	A.	.Z	?	?	?	?
85	06/10	-	?	?	?	?	?	A.	?	?	?	?	?	?
86	-	-	?	?	?	?	?	?	?	?	?	?	?	?
87	06/05	-	?	?	?	?	?	AZ	?	?	?	?	?	?
88	06/30	-	?	?	?	?	?	.Z	A.	?	?	?	?	?

AV MONTH. FREQ ? ? ? ? ? X X + ? ? ? ?

7-G-40. VAUX'S SWIFT

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
82	05/09	05/14	?	?	?	?	A.	?	?	?	?	?	?	?
83	-	-	?	?	?	?	?	?	?	?	?	?	?	?
84	04/21	05/13	?	?	?	?	?	?	?	?	?	?	?	?
84	08/30	08/30	?	?	?	.Z	A.	?	?	.Z	?	?	?	?
85	-	-	?	?	?	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ ? ? ? + X ? ? + ? ? ? ?

7-G-41. RUFIOUS HUMMINGBIRD

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
83	-	-	?	?	?	AZ	A.	?	?	?	?	?	?	?
84	-	08/30	?	?	.Z	AZ	A.	AZ	?	.Z	?	?	?	?
85	03/07	-	?	?	AZ	AZ	A.	A.	?	?	?	?	?	?
86	-	-	?	?	?	?	A.	?	?	?	?	?	?	?
87	03/07	-	?	?	A.	?	?	.Z	?	?	?	?	?	?
88	03/14	-	?	?	A.	?	?	?	?	?	?	?	?	?
89	-	-	?	?	?	A.	?	?	?	?	?	?	?	?
90	03/15	-	?	?	AZ	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ ? ? X X X X ? + ? ? ? ?  
 On 4 April 1989, Llewellyn once noted 12 at a time; usually fewer were present.

7-G-42. BELTED KINGFISHER

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
84	-	-	?	?	?	?	.Z	AZ	?	.Z	?	?	?	?
85	-	-	?	?	?	?	?	?	?	?	.Z	?	?	?
86	-	-	?	?	?	?	?	?	?	?	?	?	?	.Z

AV MONTH. FREQ ? ? ? ? + + ? + + ? ? +

7-G-43. RED-BREASTED SAPSUCKER

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
85	-	-	AZ	?	A.	?	?	?	?	?	?	?	?	A.
86	-	-	?	?	?	?	?	?	?	?	?	?	?	?
87	-	-	A.	?	?	?	?	?	?	?	?	?	?	?
88	-	-	?	?	?	?	?	?	?	?	?	?	?	?
89	-	-	?	?	A.	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ X ? X ? ? ? ? ? ? ? ? +

7-G-44. DOWNY WOODPECKER

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
83	-	-	?	?	.Z	?	A.	?	?	?	?	?	?	?
86	-	-	?	?	?	?	?	?	?	?	?	?	?	A.
88	-	-	?	?	?	?	A.	?	?	?	?	?	?	?

AV MONTH. FREQ ? ? + ? X ? ? ? ? ? ? +

7-G-45. HAIRY WOODPECKER

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
87	-	-	AZ	?	?	?	?	.Z	?	?	?	?	?	.Z

AV MONTH. FREQ + ? ? ? ? + ? ? ? ? ? +

7-G-46. NORTHERN FLICKER

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
81	-	-	?	?	?	?	?	?	?	?	?	?	A.	?
82	-	-	?	?	?	?	?	?	?	?	?	?	?	?
83	-	-	?	?	.Z	AZ	A.	?	?	?	?	?	?	?
84	-	-	?	?	.Z	AZ	AZ	AZ	?	.Z	?	?	?	.Z
85	-	-	.Z	AZ	AZ	AZ	A.	A.	A.	?	.Z	AZ	.Z	AZ
86	-	-	A.	?	?	?	?	.Z	?	?	?	?	?	A.
87	-	-	AZ	?	A.	?	?	.Z	?	?	?	?	?	?
88	-	-	?	?	?	?	?	?	?	?	.Z	?	?	?
89	-	-	?	?	.Z	A.	A.	?	?	?	?	?	?	?
90	-	-	?	?	A.	A.	?	?	?	?	?	?	.Z	?

AV MONTH. FREQ X + X X X X + + X + X X

-----  
**7-G-47. PILEATED WOODPECKER**  
 YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De  
 84 - - ? ? ? ? ? ? ? .Z ? ? ? ?  
 89 - - ? ? ? ? ? ? ? ? ? .Z A. ?  
 AV MONTH. FREQ ? ? ? ? ? ? ? + ? + + ?  
 -----

**7-G-48. OLIVE-SIDED FLYCATCHER**  
 YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De  
 88 - - ? ? ? ? ? A. A. ? ? ? ? ?  
 AV MONTH. FREQ ? ? ? ? ? + + ? ? ? ? ?  
 -----

**7-G-49. WILLOW FLYCATCHER**  
 YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De  
 84 - - ? ? ? ? ? A. ? ? ? ? ? ?  
 85 - 08/29 ? ? ? ? ? A. A. .Z ? ? ? ?  
 86 05/25 - ? ? ? ? .Z .Z ? ? ? ? ? ?  
 87 05/24 - ? ? ? ? .Z .Z ? ? ? ? ? ?  
 88 05/15 - ? ? ? ? A. ? .Z ? ? ? ? ? ?  
 89 - - ? ? ? ? ? ? ? ? ? ? ? ?  
 90 05/21 - ? ? ? ? .Z ? ? ? ? ? ? ?  
 AV MONTH. FREQ ? ? ? ? X X X + ? ? ? ? ?  
 -----

**7-G-50. PACIFIC-SLOPE FLYCATCHER**  
 YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De  
 86 - - ? ? ? ? ? .Z ? ? ? ? ? ?  
 AV MONTH. FREQ ? ? ? ? ? + ? ? ? ? ? ?  
 -----

**7-G-51. WESTERN KINGBIRD**  
 YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De  
 84 05/07 05/13 ? ? ? ? A. ? ? ? ? ? ? ?  
 88 05/29 05/29 ? ? ? ? .Z ? ? ? ? ? ? ?  
 89 04/25 04/25 ? ? ? .Z ? ? ? ? ? ? ? ?  
 AV MONTH. FREQ ? ? ? + X ? ? ? ? ? ? ? ?  
 -----

**7-G-52. TREE/VIOLET-GREEN SWALLOW**  
 YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De  
 91 02/24 - ? .Z ? ? ? ? ? ? ? ? ? ? ?  
 AV MONTH. FREQ ? + ? ? ? ? ? ? ? ? ? ? ?  
 -----

**7-G-53. TREE SWALLOW**  
 YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De  
 84 03/27 07/14 ? ? .Z AZ A. AZ A. ? ? ? ? ?  
 85 03/15 07/10 ? ? AZ AZ A. A. A. ? ? ? ? ?  
 86 - - ? ? ? ? ? .Z ? ? ? ? ? ? ?  
 87 - - ? ? ? ? ? ? ? ? ? ? ? ? ?  
 88 - - ? ? ? ? ? ? ? ? ? ? ? ? ?  
 89 - - ? ? ? A. ? ? ? ? ? ? ? ? ?  
 90 - - ? ? ? ? ? ? ? ? ? ? ? ? ?  
 91 - - ? ? ? A. ? ? ? ? ? ? ? ? ?  
 AV MONTH. FREQ ? ? X X X X X ? ? ? ? ? ?  
 Also see preceding Tree/Violet-green Swallow.

-----  
**7-G-54. VIOLET-GREEN SWALLOW**  
 YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De  
 83 - - ? ? ? AZ A. ? ? ? ? ? ? ? ?  
 84 03/20 08/30 ? ? .Z AZ AZ AZ A. .Z ? ? ? ?  
 85 03/15 09/28 ? ? AZ AZ A. A. A. .Z .Z ? ? ? ?  
 86 02/26 - ? .Z ? ? ? ? .Z ? ? ? ? ? ?  
 87 - - ? ? ? ? ? ? ? ? ? ? ? ? ?  
 88 - - ? ? ? ? ? ? ? ? ? ? ? ? ?  
 89 - - ? ? ? A. ? ? ? ? ? ? ? ? ?  
 90 02/28 09/11 ? .Z ? ? ? ? ? A. A. ? ? ? ?  
 91 - - ? ? ? A. ? ? ? ? ? ? ? ? ? ?  
 AV MONTH. FREQ ? X X X X X X X X ? ? ?  
 -----

Also see preceding Tree/Violet-green Swallow.  
 On 15 and 16 August 1989 and 12 September 1990, Llewellyn noted large concentrations of 50-100 or more swallows that were probably all Violet-green and Barn swallows.

-----  
**7-G-55. NORTHERN ROUGH-WINGED SWALLOW**  
 YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De  
 87 05/13 05/13 ? ? ? ? A. ? ? ? ? ? ? ? ?  
 AV MONTH. FREQ ? ? ? ? + ? ? ? ? ? ? ? ?  
 -----

**7-G-56. CLIFF SWALLOW**  
 YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De  
 84 04/19 08/30 ? ? ? .Z .Z AZ ? .Z ? ? ? ?  
 85 - 09/28 ? ? ? ? ? A. A. .Z .Z ? ? ? ?  
 86 - - ? ? ? ? ? AZ ? ? ? ? ? ? ? ?  
 87 05/13 - ? ? ? ? ? A. ? ? ? ? ? ? ? ?  
 88 05/29 - ? ? ? ? ? .Z ? ? ? ? ? ? ? ?  
 89 05/07 - ? ? ? ? ? A. ? ? ? ? ? ? ? ?  
 90 - 08/12 ? ? ? ? ? ? ? ? A. ? ? ? ? ?  
 AV MONTH. FREQ ? ? ? + X X + X + ? ? ? ?  
 -----

**7-G-57. BARN SWALLOW**  
 YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De  
 83 - - ? ? ? ? A. ? ? ? ? ? ? ? ?  
 84 04/15 - ? ? ? AZ AZ AZ A. .Z ? ? ? ?  
 85 04/21 09/28 ? ? ? .Z A. A. A. .Z .Z ? ? ? ?  
 86 - - ? ? ? ? ? .Z ? ? ? ? ? ? ? ?  
 87 04/09 - ? ? ? A. ? ? ? ? ? ? ? ? ?  
 88 - - ? ? ? ? ? ? ? ? ? ? ? ? ?  
 89 04/07 - ? ? ? A. ? ? ? A. ? ? ? ? ?  
 90 - 09/11 ? ? ? ? ? ? ? ? A. A. ? ? ? ?  
 AV MONTH. FREQ ? ? ? X X X X X X ? ? ?  
 -----

On 21 August 1984, 79 were bunched together on overhead wires.  
 On 15 and 16 August 1989 and 12 September 1990, Llewellyn noted large concentrations of 50-100 or more swallows that were probably all Violet-green and Barn swallows.  
 On 12 August 1989, Llewellyn noted that four young in a nest still had not fledged.

7-G-58. STELLER'S JAY

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
83	-	-	?	?	.Z	AZ	?	?	?	?	?	?	?	?
84	-	-	?	?	.Z	AZ	A.	AZ	?	.Z	?	A.	?	AZ
85	-	-	AZ	AZ	AZ	AZ	A.	?	A.	?	?	A.	?	?
86	-	-	?	?	?	?	A.	?	?	?	?	?	?	AZ
87	-	-	AZ	?	A.	?	?	?	?	?	?	?	?	?
88	-	-	?	?	?	?	A.	?	?	?	.Z	?	?	?
89	-	-	?	A.	A.	?	?	?	?	?	?	A.	?	?
90	-	-	?	?	A.	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ X X X X X + + + + X ? X

7-G-59. AMERICAN CROW

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
81	-	-	?	?	?	?	?	?	?	?	?	?	A.	?
82	-	-	?	?	?	?	?	?	?	?	?	?	?	?
83	-	-	?	?	.Z	AZ	A.	?	?	?	?	?	?	?
84	-	-	?	?	.Z	AZ	AZ	AZ	AZ	.Z	?	A.	?	AZ
85	-	-	AZ	AZ	AZ	AZ	A.	A.	A.	?	.Z	AZ	?	AZ
86	-	-	A.	?	?	?	A.	.Z	?	?	?	?	?	.Z
87	-	-	A.	?	A.	?	A.	AZ	?	?	?	?	?	?
88	-	-	?	?	?	?	AZ	?	AZ	?	.Z	?	?	.Z
89	-	-	?	A.	A.	A.	?	?	?	?	?	A.	?	?
90	-	-	?	?	?	A.	?	?	?	A.	?	?	.Z	?
91	-	-	?	?	?	?	.Z	.Z	?	?	?	?	?	?

AV MONTH. FREQ X X X X X X X X X X X X X

On 12 August 1990, Llewellyn noted a fledgling with an adult away from the nest.

7-G-60. COMMON RAVEN

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
83	-	-	?	?	.Z	A.	A.	?	?	?	?	?	?	?
84	-	-	?	?	?	A.	?	?	AZ	.Z	?	?	?	?
85	-	-	?	?	?	?	A.	?	?	?	?	.Z	?	?
86	-	-	?	?	?	?	A.	?	?	?	?	?	?	?
87	-	-	?	?	?	?	A.	.Z	A.	?	?	?	?	?
88	-	-	?	?	?	?	?	?	?	.Z	?	?	?	?
89	-	-	.Z	?	?	?	?	?	?	?	?	A.	?	?
90	-	-	?	?	?	?	?	?	?	?	?	?	?	?
91	-	-	?	?	?	?	.Z	?	?	?	?	?	?	?

AV MONTH. FREQ + ? + X X + X + + X ? ?

7-G-61. BLACK-CAPPED CHICKADEE

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
83	-	-	?	?	?	AZ	A.	?	?	?	?	?	?	?
84	-	-	?	?	.Z	AZ	A.	AZ	.Z	?	?	A.	A.	.Z
85	-	-	.Z	A.	AZ	.Z	A.	?	A.	.Z	.Z	.Z	?	A.
86	-	-	A.	?	?	?	?	AZ	?	?	?	?	A.	.Z
87	-	-	AZ	?	?	A.	A.	?	?	?	?	?	?	.Z
88	-	-	?	?	?	?	?	?	.Z	?	.Z	?	?	?
89	-	-	?	?	AZ	A.	A.	?	?	?	?	A.	?	?
90	-	-	?	?	?	?	?	?	?	?	?	?	?	?
91	-	-	?	?	?	?	?	.Z	?	?	?	?	?	?

AV MONTH. FREQ X + X X X X X + X X X X

On 21 June 1986, Llewellyn saw one carrying food in its bill, presumably to a nest.

On 15 April 1989, Llewellyn saw one in a nesting hole in an old apple tree.

7-G-62. CHESTNUT-BACKED CHICKADEE

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
84	-	-	?	?	?	.Z	?	A.	?	?	?	?	?	?
85	-	-	?	A.	?	?	?	?	?	?	?	?	?	?
86	-	-	?	?	?	?	?	?	?	?	?	?	?	?
87	-	-	?	?	?	A.	?	.Z	?	?	?	?	?	.Z
88	-	-	?	?	?	?	?	?	?	?	?	?	?	?
89	-	-	?	?	?	?	?	?	?	?	?	?	?	?
90	-	-	?	?	?	?	?	?	?	?	?	?	?	A.

AV MONTH. FREQ ? + ? X ? X ? ? ? ? ? X

7-G-63. BUSHTIT

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
83	-	-	?	?	?	A.	?	?	?	?	?	?	?	?
84	-	-	?	?	?	A.	?	AZ	?	?	?	?	.Z	?
85	-	-	AZ	?	?	?	?	?	?	?	?	?	?	?
86	-	-	?	?	?	?	?	?	?	?	?	?	?	?
87	-	-	?	?	?	A.	?	?	?	?	?	?	?	?
88	-	-	?	?	?	?	A.	?	?	?	?	?	?	?
89	-	-	?	?	?	?	?	?	?	?	?	?	?	?
90	-	-	?	?	?	?	?	?	?	?	?	?	?	?
91	-	-	?	?	?	?	?	.Z	?	?	?	?	?	?

AV MONTH. FREQ + ? ? X + X ? ? ? ? + ?

On 3 April 1983, Floyd Schrock saw a pair building a nest.

7-G-64. RED-BREASTED NUTHATCH

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
87	-	-	?	?	?	?	?	?	?	?	?	?	?	.Z
88	-	-	.Z	?	?	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ + ? ? ? ? ? ? ? ? ? ? +

7-G-65. BROWN CREEPER

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
83	08/21	08/21	?	?	?	?	?	?	?	.Z	?	?	?	?

AV MONTH. FREQ ? ? ? ? ? ? ? + ? ? ? ?

They were sometimes present in fall migration waves (section 7-F-3).

7-G-66. BEWICK'S WREN

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
86	-	-	?	?	?	?	?	?	?	?	?	?	?	.Z
87	-	-	A.	?	A.	?	?	?	?	?	?	?	?	?
88	-	-	?	?	?	?	?	?	A.	?	?	?	?	?
89	-	-	?	?	?	?	A.	?	?	?	?	?	?	?

AV MONTH. FREQ + ? + ? + ? + ? ? ? ? +

On 10 March 1987, Llewellyn heard them singing.

**7-G-67. WINTER WREN**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
81	-	-	?	?	?	?	?	?	?	?	?	?	A.	?
82	-	-	?	?	?	?	?	?	?	?	?	?	?	?
83	-	-	?	?	?	AZ	A.	?	?	?	?	?	?	?
84	-	-	?	?	?	?	?	?	?	?	?	?	?	.Z
85	-	-	.Z	.Z	A.	.Z	?	A.	?	?	?	?	?	AZ
86	-	-	A.	?	?	?	?	.Z	?	?	?	?	?	A.
87	-	-	AZ	?	A.	?	?	?	?	?	?	?	?	?
88	-	-	?	?	?	?	?	?	?	?	?	?	?	?
89	-	-	?	?	A.	?	A.	?	?	?	?	?	?	?
90	-	-	?	?	.Z	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ X + X X X X ? ? ? ? + X

**7-G-68. MARSH WREN**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
87	-	-	A.	?	?	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ + ? ? ? ? ? ? ? ? ? ?

**7-G-69. AMERICAN DIPPER**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
87	-	-	?	?	?	?	?	?	?	?	?	?	?	.Z

AV MONTH. FREQ ? ? ? ? ? ? ? ? ? ? +

**7-G-70. GOLDEN-CROWNED KINGLET**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
87	-	-	?	?	A.	?	?	?	?	?	?	?	?	?
88	-	-	?	?	?	?	?	?	?	?	?	?	?	.Z
89	-	-	?	?	?	?	?	?	?	?	?	?	?	?
90	-	-	?	?	?	?	?	?	?	?	?	?	.Z	?

AV MONTH. FREQ ? ? + ? ? ? ? ? ? ? + +

**7-G-71. RUBY-CROWNED KINGLET**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
84	10/10	04/09	?	.Z	A.	?	?	?	?	?	?	?	?	?
85	-	-	AZ	A.	A.	?	?	?	?	?	?	?	?	?
86	-	-	?	?	?	?	?	?	?	?	?	?	?	?
87	-	-	?	?	.Z	?	?	?	?	?	?	?	?	?
88	-	-	?	?	.Z	?	?	?	?	?	?	?	?	?
89	-	-	?	A.	.Z	?	?	?	?	?	?	?	?	?
90	-	-	?	?	?	?	?	?	?	?	?	?	.Z	A.

AV MONTH. FREQ + X X + ? ? ? ? ? ? + + +

**7-G-72. WESTERN BLUEBIRD**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
83	-	-	?	?	?	?	?	?	?	?	?	?	?	?
84	-	-	?	?	?	?	?	?	?	?	?	?	?	?
85	09/28	10/12	?	?	?	?	?	?	?	?	.Z	A.	?	?
86	09/30	09/30	?	?	?	?	?	?	?	?	.Z	?	?	?
87	-	-	?	?	?	?	?	?	?	?	?	?	?	?
88	05/11	05/11	?	?	?	?	A.	?	?	?	?	?	?	?
89	-	-	?	?	?	?	?	?	?	?	?	?	?	?
90	05/02	05/02	?	?	?	?	A.	?	?	?	?	?	?	?

AV MONTH. FREQ ? ? ? ? X ? ? ? X + ? ?

**7-G-73. SWAINSON'S THRUSH**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
84	05/20	-	?	?	?	?	.Z	AZ	?	?	?	?	?	?
85	-	-	?	?	?	?	?	A.	?	.Z	?	?	?	?
86	05/25	-	?	?	?	?	.Z	AZ	?	?	?	?	?	?
87	05/20	-	?	?	?	?	.Z	?	?	?	?	?	?	?
88	05/15	-	?	?	?	?	AZ	?	.Z	?	?	?	?	?
89	-	-	?	?	?	?	?	?	?	?	?	?	?	?
90	05/25	-	?	?	?	?	.Z	?	?	?	?	?	?	?
91	-	-	?	?	?	?	?	.Z	?	?	?	?	?	?

AV MONTH. FREQ ? ? ? ? ? X X + X ? ? ? ?

**7-G-74. HERMIT THRUSH**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
85	-	-	.Z	?	?	?	?	?	?	?	?	?	?	?
86	-	-	?	?	?	?	?	?	?	?	?	?	?	?
87	-	-	?	?	?	?	?	?	?	?	?	?	?	.Z

AV MONTH. FREQ + ? ? ? ? ? ? ? ? ? ? +

**7-G-75. AMERICAN ROBIN**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
81	-	-	?	?	?	?	?	?	?	?	?	?	A.	?
82	-	-	?	?	?	?	?	?	?	?	?	?	?	?
83	-	-	?	?	.Z	AZ	A.	?	?	?	?	?	?	?
84	-	-	?	?	.Z	AZ	AZ	AZ	AZ	?	?	?	?	.Z
85	-	-	.Z	AZ	AZ	AZ	A.	A.	A.	.Z	.Z	AZ	.Z	AZ
86	-	-	A.	.Z	?	?	A.	.Z	?	?	?	?	?	.Z
87	-	-	AZ	?	A.	?	AZ	?	?	?	?	?	?	?
88	-	-	.Z	?	?	?	AZ	?	.Z	?	?	?	?	?
89	03/12	-	?	?	A.	A.	A.	?	?	?	?	?	?	?
90	-	-	?	?	AZ	A.	?	?	?	A.	?	?	?	?
91	-	-	?	?	?	?	?	.Z	?	?	?	?	?	?

AV MONTH. FREQ X X X X X X X X X + + X X

In 1986, Llewellyn saw a fledgling by itself away from the nest on June 21.  
 In 1987, Llewellyn saw a cat kill a fledgling away from the nest on May 20.  
 In 1989, Llewellyn noted that they had been absent for some time before being seen again on March 12.

**7-G-76. VARIED THRUSH**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
81	-	-	?	?	?	?	?	?	?	?	?	?	?	A.
82	-	-	?	?	?	?	?	?	?	?	?	?	?	?
83	-	-	?	?	?	?	?	?	?	?	?	?	?	?
84	-	-	?	?	.Z	A.	.Z	?	?	?	?	?	?	.Z
85	-	-	AZ	AZ	AZ	AZ	?	A.	A.	?	.Z	?	.Z	A.
86	-	-	?	?	?	?	?	?	?	?	?	?	?	AZ
87	-	-	AZ	?	A.	?	?	?	?	?	?	?	?	.Z
88	-	-	?	?	A.	?	?	?	?	?	?	?	?	?
89	-	-	?	A.	.Z	A.	?	?	?	?	?	?	?	?
90	-	-	?	?	AZ	?	?	?	?	?	?	?	.Z	A.

AV MONTH. FREQ X X X X + + + ? + ? X X

**7-G-77. WRENTIT**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
85	-	-	?	?	?	?	?	?	?	?	?	?	?	.Z
86	-	-	A.	?	?	?	?	?	?	?	?	?	?	?
87	-	-	?	?	?	?	?	?	?	?	?	?	?	?
88	-	-	?	?	?	?	?	?	?	?	?	.Z	?	?

AV MONTH. FREQ + ? ? ? ? ? ? ? ? + ? ? +

**7-G-78. AMERICAN PIPIT**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
85	10/12	10/12	?	?	?	?	?	?	?	?	?	?	A.	?

AV MONTH. FREQ ? ? ? ? ? ? ? ? + ? ?

**7-G-79. CEDAR WAXWING**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
82	12/04	12/04	?	?	?	?	?	?	?	?	?	?	?	A.
83	-	-	?	?	?	?	?	?	?	?	?	?	?	?
84	05/24	-	?	?	?	?	.Z	AZ	AZ	.Z	?	?	?	?
85	06/10	09/28	?	?	?	?	?	A.	A.	.Z	.Z	?	?	?
86	06/11	-	?	?	?	?	?	AZ	?	?	?	?	?	?
87	05/23	-	?	?	?	?	.Z	AZ	?	?	?	?	?	?
88	05/29	-	?	?	?	?	.Z	.Z	A.	?	?	?	?	?
89	-	-	?	?	?	?	?	?	?	?	?	?	?	?
90	-	-	?	?	?	?	?	?	.Z	A.	?	?	?	?
91	-	-	?	?	?	?	.Z	?	?	?	?	?	?	?

AV MONTH. FREQ ? ? ? ? X X X X + ? ? +

Someone told Llewellyn that one was seen carrying nesting material in its bill on 23 May 1987.

**7-G-80. EUROPEAN STARLING**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
83	-	-	?	?	.Z	AZ	A.	?	?	?	?	?	?	?
84	-	-	?	?	?	.Z	A.	?	?	?	?	?	?	?
85	-	-	?	?	?	?	?	?	?	?	?	?	?	?
86	-	-	?	?	?	?	?	?	?	?	?	?	?	.Z
87	-	-	?	?	A.	?	?	?	?	?	?	?	?	?
88	-	-	?	?	?	?	?	?	?	?	?	?	?	?
89	-	-	?	?	?	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ ? ? X X X ? ? ? ? ? ? +

In February 1993, Llewellyn noted that starlings are very common in this area, although they were rarely reported.

**7-G-81. SOLITARY VIREO**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
83	-	-	?	?	?	?	?	?	?	PP	?	?	?	?

AV MONTH. FREQ ? ? ? ? ? ? ? ? + ? ? ? ?

They were sometimes present in fall migration waves (section 7-F-3).

**7-G-82. HUTTON'S VIREO**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
87	-	-	?	?	.Z	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ ? ? + ? ? ? ? ? ? ? ? ?

**7-G-83. ORANGE-CROWNED WARBLER**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
91	-	-	?	?	?	?	?	.Z	?	?	?	?	?	?

AV MONTH. FREQ ? ? ? ? ? ? + ? ? ? ? ?

**7-G-84. NASHVILLE WARBLER**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
83	08/21	08/21	?	?	?	?	?	?	?	.Z	?	?	?	?

AV MONTH. FREQ ? ? ? ? ? ? ? ? + ? ? ? ?

Floyd Schrock once observed at least one during a fall migration wave (section 7-F-3); no other details are available.

**7-G-85. YELLOW-RUMPED WARBLER**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
83	04/07	05/05	?	?	?	AZ	A.	?	?	?	?	?	?	?
84	03/18	04/29	?	?	.Z	.Z	?	?	?	?	?	?	?	?
85	03/07	-	?	?	A.	?	?	?	?	?	?	?	?	?
86	-	05/A	?	?	?	?	A.	?	?	?	?	?	?	?
87	-	-	?	?	?	?	?	?	?	?	?	?	?	?
88	-	05/07	?	?	?	?	A.	?	?	?	?	?	?	?
89	04/07	-	?	?	?	A.	?	?	?	?	?	?	?	?

AV MONTH. FREQ ? ? X X X ? ? ? ? ? ? ?

Llewellyn noted that both Audubon and Myrtle forms were present in March-May.

**7-G-86. BLACK-THROATED GRAY WARBLER**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
83	-	-	?	?	?	?	?	?	?	PP	?	?	?	?
91	-	-	?	?	?	?	?	.Z	?	?	?	?	?	?

AV MONTH. FREQ ? ? ? ? ? ? + ? + ? ? ? ?

They were sometimes present in fall migration waves (section 7-F-3).

**7-G-87. TOWNSEND'S WARBLER**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
83	-	-	?	?	?	?	?	?	?	PP	?	?	?	?

AV MONTH. FREQ ? ? ? ? ? ? ? ? + ? ? ? ?

They were sometimes present in fall migration waves (section 7-F-3).

**7-G-88. HERMIT WARBLER**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
83	-	-	?	?	?	?	?	?	A.	PP	?	?	?	?
91	-	-	?	?	?	?	?	.Z	?	?	?	?	?	?

AV MONTH. FREQ ? ? ? ? ? ? + + + ? ? ? ?

In 1983, Rob Lawrence saw an adult with four fledglings away from the nest on July 13.

They were sometimes present in fall migration waves (section 7-F-3).

**7-G-89. WILSON'S WARBLER**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
83	-	-	?	?	?	?	?	?	?	PP	?	?	?	?
84	-	-	?	?	?	?	?	A.	?	?	?	?	?	?
85	-	-	?	?	?	?	?	?	?	.Z	?	?	?	?
86	-	-	?	?	?	?	?	?	?	?	?	?	?	?
87	04/11	-	?	?	?	A.	?	?	?	?	?	?	?	?
88	-	-	?	?	?	?	A.	?	?	?	?	?	?	?
89	-	-	?	?	?	?	A.	?	?	A.	?	?	?	?
90	-	-	?	?	?	?	?	?	?	?	?	?	?	?
91	-	-	?	?	?	?	?	.Z	?	?	?	?	?	?

AV MONTH. FREQ ? ? ? + X X ? X ? ? ? ?  
 They were sometimes present in fall migration waves (section 7-F-3).

**7-G-90. COMMON YELLOWTHROAT**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
84	04/27	-	?	?	?	.Z	?	A.	?	?	?	?	?	?
87	-	-	?	?	?	?	?	?	A.	?	?	?	?	?
91	-	-	?	?	?	?	?	.Z	?	?	?	?	?	?

AV MONTH. FREQ ? ? ? + ? X + ? ? ? ? ?

**7-G-91. WESTERN Tanager**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
83	-	-	?	?	?	?	?	?	?	PP	?	?	?	?
84	05/15	-	?	?	?	?	?	A.	?	?	?	?	?	?
85	-	-	?	?	?	?	?	?	?	?	?	?	?	?
86	-	-	?	?	?	?	?	A.	?	?	?	?	?	?
87	05/11	-	?	?	?	?	A.	?	?	?	?	?	?	?

AV MONTH. FREQ ? ? ? ? X + ? + ? ? ? ? ?  
 They were sometimes present in fall migration waves (section 7-F-3).

**7-G-92. RUFOUS-SIDED TOWHEE**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
81	-	-	?	?	?	?	?	?	?	?	?	?	A.	?
82	-	-	?	?	?	?	?	?	?	?	?	?	?	?
83	-	-	?	?	.Z	.Z	?	?	?	?	?	?	?	?
84	-	-	?	?	?	?	?	.Z	?	?	?	?	?	AZ
85	-	-	.Z	AZ	AZ	AZ	?	A.	?	?	?	?	.Z	AZ
86	-	-	?	?	?	?	?	?	?	?	?	?	A.	AZ
87	-	-	AZ	?	A.	?	A.	?	?	?	?	?	?	?
88	-	-	?	?	?	?	?	?	?	?	?	?	?	.Z
89	-	-	.Z	A.	A.	.Z	?	?	?	?	?	?	?	?
90	-	-	?	?	A.	?	?	?	?	?	?	?	?	A.

AV MONTH. FREQ X X X X + X + ? ? ? X X

**7-G-93. CHIPPING SPARROW**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
85	04/25	04/25	?	?	?	.Z	?	?	?	?	?	?	?	?

AV MONTH. FREQ ? ? ? + ? ? ? ? ? ? ? ? ?  
 Peter Schrock saw one once; no other details are available.

**7-G-94. SAVANNAH SPARROW**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
84	-	-	?	?	?	?	?	.Z	.Z	?	?	?	?	?
85	-	-	?	?	?	?	?	?	?	?	?	?	?	?
86	-	-	?	?	?	?	A.	?	?	?	?	?	?	?
87	-	-	?	?	?	?	?	A.	?	?	?	?	?	?
88	-	-	?	?	?	?	?	A.	?	?	?	?	?	?
89	04/29	-	?	?	?	.Z	?	?	?	?	?	?	?	?

AV MONTH. FREQ ? ? ? + + X + ? ? ? ? ?

**7-G-95. FOX SPARROW**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
81	-	-	?	?	?	?	?	?	?	?	?	?	A.	?
82	-	-	?	?	?	?	?	?	?	?	?	?	?	?
83	-	-	?	?	?	?	?	?	?	?	?	?	?	?
84	10/10	04/09	?	?	.Z	A.	?	?	?	?	?	A.	?	A.
85	-	04/08	.Z	AZ	AZ	A.	?	?	?	?	?	?	?	A.
86	-	-	A.	?	?	?	?	?	?	?	?	?	?	A.
87	-	04/11	A.	?	?	A.	?	?	?	?	?	?	?	?
88	-	-	?	?	.Z	?	?	?	?	?	?	?	?	?
89	-	04/01	.Z	A.	AZ	A.	?	?	?	?	?	?	?	?
90	-	-	?	?	AZ	?	?	?	?	?	?	?	?	A.

AV MONTH. FREQ X X X X ? ? ? ? ? + + X

**7-G-96. SONG SPARROW**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
81	-	-	?	?	?	?	?	?	?	?	?	?	A.	?
82	-	-	?	?	?	?	?	?	?	?	?	?	?	?
83	-	-	?	?	.Z	AZ	A.	?	?	?	?	?	?	?
84	-	-	?	?	.Z	AZ	AZ	AZ	AZ	.Z	?	A.	?	AZ
85	-	-	AZ	AZ	AZ	AZ	A.	A.	A.	.Z	.Z	AZ	.Z	AZ
86	-	-	A.	.Z	?	?	A.	.Z	?	?	?	?	?	AZ
87	-	-	AZ	?	A.	?	A.	AZ	?	?	?	?	?	?
88	-	-	?	?	?	?	.Z	?	?	?	.Z	?	?	.Z
89	-	-	?	A.	AZ	A.	?	?	?	?	?	A.	?	?
90	-	-	?	A.	A.	?	?	?	A.	?	?	?	?	A.
91	-	-	?	?	?	?	?	.Z	?	?	?	?	?	?

AV MONTH. FREQ X X X X X X X X X X X X

**7-G-97. LINCOLN'S SPARROW**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
89	05/07	05/07	?	?	?	?	A.	?	?	?	?	?	?	?

AV MONTH. FREQ ? ? ? ? + ? ? ? ? ? ? ? ?  
 Llewellyn saw at least one once; no other details are available.

**7-G-98. WHITE-THROATED SPARROW**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
88	-	-	A.	?	?	?	?	?	?	?	?	?	?	?
89	-	-	?	?	?	?	?	?	?	?	?	?	?	?
90	-	03/16	?	?	.Z	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ + ? + ? ? ? ? ? ? ? ? ?  
 Llewellyn saw one in January 1988 and two on 16 March 1990; it is unclear if both sightings were at his house.

7-G-99. GOLDEN-CROWNED SPARROW

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
84	04/25	05/02	?	?	?	.Z	A.	?	?	?	?	?	?	?
85	04/21	05/03												
85	10/12	10/20	?	?	?	.Z	A.	?	?	?	?	AZ	?	?
86	-	-	?	?	?	?	?	?	?	?	?	?	?	?
87	05/02	05/02	?	?	?	?	A.	?	?	?	?	?	?	?
88	01/24	01/24												
88	09/18	09/18	.Z	?	?	?	?	?	?	?	.Z	?	?	?
89	04/29	04/29	?	?	?	.Z	?	?	?	?	?	?	?	?

AV MONTH. FREQ + ? ? X X ? ? ? + + ? ?

7-G-100. WHITE-CROWNED SPARROW

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
83	04/08	-	?	?	?	AZ	A.	?	?	?	?	?	?	?
84	03/28	-	?	?	.Z	AZ	AZ	AZ	.Z	?	?	?	?	?
85	03/31	-	?	?	.Z	.Z	A.	?	?	?	?	?	?	?
86	-	-	?	?	?	?	A.	.Z	?	?	?	?	?	?
87	04/02	-	?	?	?	A.	A.	AZ	?	?	?	?	?	?
88	-	-	?	?	?	.Z	AZ	A.	A.	?	?	?	?	?
89	02/06	02/06												
90	04/01	-	?	A.	?	A.	A.	?	?	?	?	?	?	?
90	03/31	-	?	?	.Z	?	?	?	?	?	?	?	?	?
91	-	-	?	?	?	?	.Z	?	?	?	?	?	?	?

AV MONTH. FREQ ? + X X X X X + ? ? ? ?

In 1984, Llewellyn counted 24 on April 7; this is a high number for here.

In 1987, Llewellyn saw one carrying nesting material in its bill on May 2.

In 1989, Llewellyn found two immatures on February 6; adults arrived much later that year.

7-G-101. DARK-EYED JUNCO

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
83	-	-	?	?	.Z	AZ	?	?	?	?	?	?	?	?
84	-	-	?	?	.Z	A.	A.	?	?	?	?	?	?	?
85	-	-	AZ	AZ	AZ	A.	?	?	?	?	?	?	AZ	?
86	-	-	A.	.Z	?	?	?	?	?	?	?	?	AZ	?
87	-	-	A.	?	A.	?	?	?	?	?	?	?	?	?
88	-	-	?	?	A.	?	?	?	?	?	?	?	?	.Z
89	-	-	?	?	.Z	?	?	?	?	?	?	?	?	?
90	-	-	?	?	A.	?	?	?	?	?	?	?	?	A.
91	-	-	?	?	?	?	.Z	?	?	?	?	?	?	?

AV MONTH. FREQ X X X X X + ? ? ? ? X X

7-G-102. RED-WINGED BLACKBIRD

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
84	-	-	?	?	?	.Z	?	?	?	?	?	?	?	?
85	02/13	-	?	AZ	AZ	AZ	A.	?	?	?	?	?	?	?
86	02/06	-												
86	12/03	12/03	?	AZ	?	?	?	?	?	?	?	?	?	A.
87	-	06/21	?	?	?	?	?	.Z	?	?	?	?	?	?
88	-	-	?	?	?	?	?	?	?	?	?	?	?	?
89	-	-	?	?	.Z	A.	?	?	?	?	?	?	?	?

AV MONTH. FREQ ? X X X + + ? ? ? ? ? +

In 1986, Llewellyn discovered three females on December 3, so females can sometimes be present here in winter.

7-G-103. WESTERN MEADOWLARK

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
84	12/08	12/08	?	?	?	?	?	?	?	?	?	?	?	A.

AV MONTH. FREQ ? ? ? ? ? ? ? ? ? ? ? ? +  
Llewellyn noted at least one once; no other details are available.

7-G-104. BREWER'S BLACKBIRD

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
81	-	-	?	?	?	?	?	?	?	?	?	?	?	A.
85	-	-	?	?	A.	?	?	?	?	?	?	?	?	?
90	-	-	?	?	.Z	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ ? ? X ? ? ? ? ? ? ? ? + ?  
In 1981, Llewellyn counted 14 on November 5, and, in 1990, he found six on March 16. Otherwise, they were rare here.

7-G-105. BROWN-HEADED COWBIRD

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
83	05/05	-	?	?	?	?	A.	?	?	?	?	?	?	?
84	04/07	-	?	?	?	AZ	AZ	A.	?	?	?	?	?	?
85	04/21	-	?	?	?	.Z	A.	?	?	?	?	?	?	?
86	-	-	?	?	?	?	?	?	?	?	?	?	?	?
87	-	-	?	?	?	?	?	?	?	?	?	?	?	?
88	-	-	?	?	?	?	?	?	?	?	?	?	?	?
89	04/29	-	?	?	?	.Z	A.	?	?	?	?	?	?	?
90	-	08/07	?	?	?	?	?	?	?	A.	?	?	?	?

AV MONTH. FREQ ? ? ? X X + ? + ? ? ? ?

7-G-106. PURPLE FINCH

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
83	-	-	?	?	?	?	A.	?	?	?	?	?	?	?
84	-	-	?	?	?	?	.Z	AZ	?	?	?	?	?	?
85	-	-	?	A.	AZ	AZ	A.	?	?	.Z	?	?	?	AZ
86	-	-	A.	.Z	?	?	A.	.Z	?	?	?	?	?	?
87	-	-	?	?	?	?	.Z	AZ	?	?	?	?	?	?
88	-	-	.Z	?	?	?	?	.Z	AZ	?	?	?	?	?
89	-	-	?	?	?	A.	?	?	?	?	?	?	?	?
90	-	-	?	?	.Z	?	?	?	?	A.	?	?	?	?

AV MONTH. FREQ X X X X X X + X ? ? ? ? +  
This species was much more common here than the House Finch.

In 1987, Llewellyn found 12 on June 21, and, in 1989, he heard one singing on April 5.



-----

**7-G-107. HOUSE FINCH**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
85	03/31	-	?	?	.Z	.Z	A.	AZ	?	?	?	?	?	?
86	-	-	?	?	?	.Z	?	?	?	?	?	?	?	?

AV MONTH. FREQ ? ? + X + + ? ? ? ? ? ?

This species was rare here.

In 1985, Floyd Schrock observed a nest in a shrub growing next to the Logsdan Mennonite (now Neighborhood) Church (which is along HWY 410, about a mile west of the Logsdan Store) with five eggs on June 9, and he noted that young were being fed at the nest on June 23. In 1986, he noted that eggs hatched at a nest in the same bush as in 1985 on April 27.

-----

**7-G-108. RED CROSSBILL**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
85	-	-	.Z	?	?	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ + ? ? ? ? ? ? ? ? ? ? ? ?

-----

**7-G-109. PINE SISKIN**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
84	-	-	?	?	?	?	?	A.	?	?	?	?	?	?
85	-	-	.Z	?	?	.Z	A.	?	?	.Z	?	?	?	?
86	-	-	?	?	?	?	?	?	?	?	?	?	?	A.
87	-	-	.Z	?	?	?	?	?	?	?	?	?	?	?
88	-	-	?	?	?	?	?	?	?	?	?	?	?	?
89	-	-	?	?	?	?	?	?	?	?	?	?	A.	?

AV MONTH. FREQ X ? ? + + + ? + ? + ? +

In 1986, Llewellyn estimated about 500 were in red alder trees on December 13, and he saw another 50 on 24 January 1987. Thus, the 1986/1987 winter was one in which they were abundant.

-----

**7-G-110. AMERICAN GOLDFINCH**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
83	04/12	-	?	?	?	A.	A.	?	?	?	?	?	?	?
84	05/03	-	?	?	?	?	?	AZ	AZ	?	.Z	?	?	.Z
85	04/21	10/12	?	?	?	.Z	A.	A.	A.	.Z	.Z	A.	?	?
86	05/A	-	?	?	?	?	A.	AZ	?	?	?	?	?	?
87	05/11	-	?	?	?	?	A.	AZ	?	?	?	?	?	?
88	05/07	-	?	?	?	?	A.	.Z	A.	?	?	?	?	?
89	-	-	?	?	?	?	?	?	?	?	?	?	?	?
90	-	-	?	?	?	?	?	?	?	.Z	A.	?	?	?
91	-	-	?	?	?	?	?	?	?	.Z	?	?	?	?

AV MONTH. FREQ ? ? ? X X X X X + + ? +

In 1988, Llewellyn recorded 30 on July 10, which is a high concentration; there were usually a dozen or less.

-----

**7-G-111. EVENING GROSBEAK**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
82	-	-	.Z	?	A.	?	?	?	?	?	?	?	?	?
83	-	-	?	?	?	?	?	?	?	?	?	?	?	?
84	-	-	?	?	?	?	?	A.	?	?	?	?	?	?
85	-	-	?	?	?	?	?	?	?	?	?	?	?	?
86	-	-	?	?	?	?	A.	?	?	?	?	?	?	A.

AV MONTH. FREQ + ? + ? + + ? ? ? ? ? +

In 1982, Llewellyn estimated about 100 were present on January 29 and 30; however, they were usually absent in winter.

-----

**7-G-112. HOUSE SPARROW**

YR	First	Last	Ja	Fe	Mr	Ap	My	Jn	Jl	Ag	Sp	Oc	Nv	De
83	-	-	?	?	.Z	AZ	A.	?	?	?	?	?	?	?
84	-	-	?	?	.Z	AZ	A.	AZ	?	?	?	?	?	?
85	-	-	?	?	?	?	?	?	?	?	?	?	?	?
86	-	-	?	.Z	?	?	?	?	?	?	?	?	?	.Z
87	-	-	?	?	?	?	?	?	?	?	?	?	?	?
88	-	-	?	?	?	?	?	?	?	?	?	?	?	?
89	-	-	?	?	?	?	?	?	?	?	?	?	?	?
90	-	-	?	?	A.	?	?	?	?	?	?	?	?	?

AV MONTH. FREQ ? + X X X + ? ? ? ? ? +

In February 1993, Llewellyn noted that House Sparrows are very common in this area, although they were rarely reported.

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7-H. TABLES

Codes:

**Table 7.1.** Number of Observations and number of Taxa/Observation near Logsdan. There was one Observation per day. Unknown quail, unknown gulls, and Tree/Violet-green Swallows were each counted as one taxon.

N=number of Observations/Month  
 SD=Standard Deviation  
 -=not applicable  
 Yrs=number of years with at least one observation  
 MAX=maximum (maximum of Means given only if N is two or more).

Yr	Taxa/Observation.....														
	January.....			February.....			March.....			April.....			May.....		
	N	Mean	SD Range	N	Mean	SD Range	N	Mean	SD Range	N	Mean	SD Range	N	Mean	SD Range
81	0	-	- -	0	-	- -	0	-	- -	0	-	- -	0	-	- -
82	2	1.0	0 1	0	-	- -	4	1.0	0 1	1	1	- 1	2	1.0	0 1
83	0	-	- -	0	-	- -	1	13	- 13	15	8.7	4.8 1-15	2	16.0	5.7 12-20
84	0	-	- -	1	1	- 1	8	6.6	3.7 1-11	15	12.0	3.0 6-16	15	5.9	4.8 1-16
85	3	12.0	2.0 10-14	2	13.5	0.7 13-14	3	18.7	3.1 16-22	3	15.0	12.8 1-26	1	24	- 24
86	1	10	- 10	4	2.5	3.0 1-7	0	-	- -	1	1	- 1	3	5.7	7.2 1-14
87	9	4.4	3.4 1-10	1	1	- 1	8	4.0	2.9 1-9	6	2.0	2.0 1-6	9	2.3	1.7 1-6
88	3	2.3	1.5 1-4	0	-	- -	2	3.0	1.4 2-4	1	3	- 3	4	6.8	6.1 1-13
89	4	2.5	1.7 1-5	2	4.5	4.9 1-8	5	4.4	4.2 1-9	10	3.6	3.2 1-9	2	6.5	6.4 2-11
90	2	1.0	0 1	1	3	- 3	4	5.0	3.6 2-10	1	7	- 7	5	1.0	0 1
91	0	-	- -	2	1.0	0 1	0	-	- -	1	3	- 3	3	1.7	1.2 1-3
Yrs	7	-	- -	7	-	- -	8	-	- -	10	-	- -	10	-	- -
SUM	24	-	- -	13	-	- -	35	-	- -	54	-	- -	46	-	- -
MAX	9	12.0	- 14	4	13.5	- 14	8	18.7	- 22	15	15.0	- 26	15	16.0	- 24

Yr	Taxa/Observation.....														
	June.....			July.....			August.....			September.....			October.....		
	N	Mean	SD Range	N	Mean	SD Range	N	Mean	SD Range	N	Mean	SD Range	N	Mean	SD Range
81	0	-	- -	0	-	- -	0	-	- -	0	-	- -	0	-	- -
82	0	-	- -	0	-	- -	0	-	- -	0	-	- -	0	-	- -
83	0	-	- -	2	1.0	0 1	2	4.0	2.8 2-6	0	-	- -	0	-	- -
84	11	13.8	7.1 2-24	2	12.5	2.1 11-14	1	23	- 23	0	-	- -	1	7	- 7
85	3	6.7	9.8 1-18	1	14	- 14	1	14	- 14	1	17	- 17	2	10.0	0 10
86	5	5.4	5.6 1-15	0	-	- -	0	-	- -	1	1	- 1	4	1.5	1.0 1-3
87	3	9.0	7.5 2-17	2	1.5	0.7 1-2	0	-	- -	0	-	- -	0	-	- -
88	3	2.7	0.6 2-3	8	3.3	2.4 1-8	1	1	- 1	1	9	- 9	1	1	- 1
89	0	-	- -	0	-	- -	3	1.3	0.6 1-2	0	-	- -	2	3.5	3.5 1-6
90	0	-	- -	1	2	- 2	2	7.0	1.4 6-8	2	1.5	0.7 1-2	0	-	- -
91	3	6.3	6.8 1-14	0	-	- -	0	-	- -	1	1	- 1	0	-	- -
Yrs	6	-	- -	6	-	- -	6	-	- -	5	-	- -	5	-	- -
SUM	28	-	- -	16	-	- -	10	-	- -	6	-	- -	10	-	- -
MAX	11	13.8	- 24	8	12.5	- 14	3	7.0	- 23	2	1.5	- 17	4	10.0	- 10

(Table 7.1 continued on next page)

(Table 7.1 continued)

Yr	Taxa/Observation.....						Total Observations/ Year	
	November.....			December.....				
	N	Mean	SD	Range	N	Mean	SD	Range
81	3	4.3	2.5	2-7	0	-	-	-
82	0	-	-	-	2	1.0	0	1
83	0	-	-	-	0	-	-	-
84	2	1.5	0.7	1-2	2	10.0	1.4	9-11
85	1	6	-	6	2	13.0	1.4	12-14
86	3	1.7	0.6	1-2	5	5.4	4.6	1-12
87	0	-	-	-	2	5.0	1.4	4-6
88	0	-	-	-	4	2.8	2.2	1-6
89	1	1	-	1	0	-	-	-
90	1	5	-	5	1	9	-	9
91	1	1	-	1	0	-	-	-
Yrs	7	-	-	-	7	-	-	-
SUM	12	-	-	-	18	-	-	-
MAX	3	4.3	-	7	5	13.0	-	14

**Table 7.2.** Total bird taxa recorded each month and year near Logsdan. These data are calculated from Table 7.1 and section 7-G. Unknown quail, unknown gulls, and Tree/Violet-green Swallows were each counted as one taxon. There were no TOE months (section 7-D).

Codes:  
 Record=one bird taxon seen or heard during one Observation  
 Monthly Records (calculated from Table 7.1)=  
 (number of Observations) X (Mean Taxa/Obs.),  
 rounded to the nearest whole number

Total Records=sum of Monthly Records  
 Total Taxa=total number of taxa recorded each year  
 Records/Taxon=Total Records for year divided by the total number of taxa noted that year  
 Records/Obs.=Total Records for year divided by the number of Observations from Table 7.1  
 .=zero (". " is used to enhance readability)  
 MAX=maximum  
 #Taxa=total number of taxa seen during all of 1981-1991 and January 1992.

	Taxa/Month.....												Total Records@	Total Taxa	Records per... Taxon	Obs.
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
1981	.	.	.	.	.	.	.	.	.	.	11	.	13	11	1.2	4.3
1982	1	.	4	1	1	.	.	.	.	.	.	2	11	8	1.4	1.0
1983	.	.	13	27	22	.	2	8	.	.	.	.	186	41	4.5	8.5
1984	.	1	19	35	36	36	18	23	.	7	3	15	553	65	8.5	9.5
1985	20	17	29	31	24	19	14	14	17	15	6	16	305	61	5.0	13.3
1986	10	9	.	1	16	20	.	.	1	5	4	21	104	49	2.1	3.9
1987	19	1	19	12	19	19	3	.	.	.	.	10	147	56	2.6	3.6
1988	7	.	6	3	21	7	20	1	9	1	.	8	98	46	2.1	3.6
1989	7	9	16	25	13	.	.	3	.	7	1	.	102	41	2.5	3.5
1990	2	3	16	7	5	.	2	13	3	.	5	9	70	39	1.8	3.5
1991	.	2	.	3	3	17	.	.	1	.	1	.	31	25	1.2	2.8
MAX	20	17	29	35	36	36	20	23	17	15	11	21	553	65	8.5	13.3
60% of MAX	12.0	10.2	17.4	21.0	21.6	21.6	12.0	13.8	10.2	9.0	6.6	12.6	331.8	39.0	-	-
Yrs of 60%	2	1	3	4	3	1	3	2	1	1	1	3	1	8	-	-
Yrs of TOE	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-	-
#Taxa	34\$	28	44	56	59	50	35	39	24	24	20	44	-	108\$	-	-
MAX/#Taxa	0.6	0.6	0.7	0.6	0.6	0.7	0.6	0.6	0.7	0.6	0.6	0.5	-	0.6	-	-

@ There were a grand total of 1620 Records in 1981-1991; there was one record in 1992.  
 \$ Includes January 1992 record of Rock Dove.

**Table 7.3.** Number and regularity of bird taxa near Logsdan for selected years. These data are calculated from section 7-G only for the eight years that had 60% or more of the yearly maximum number of taxa in Table 7.2; these years include 1983-1990. Unknown quail and Tree/Violet-green Swallows were each counted as one terrestrial taxon, and unknown gulls was counted as one

waterbird taxon.

Waterbirds=aquatic taxa (e.g., members of heron family, waterfowl, rails, shorebirds, gulls, Belted Kingfisher, and American Dipper).

Other Years=number of taxa only found in years with less than 60% of the yearly maximum number of taxa (i.e., 1981-1982, 1991-1992).

	Waterbirds.....		Terrestrial Birds:	
	No. of Taxa	% of Total	No. of Taxa	% of Total
1	8	47.1	22	25.0
2	1	5.9	12	13.6
3	4	23.5	5	5.7
4	2	11.8	12	13.6
5	2	11.8	6	6.8
6	0	0.0	9	10.2
7	0	0.0	10	11.4
8	0	0.0	12	13.6
Sum	17	100.1	88	99.9
Other Years	0	-	3	-

**Table 7.4.** Number of observations and records per observer. .=zero, \*=only one observation and one record in 1992.

Observer	Observations.....			Records.....		
	1981-1989	1990-1992	Total	1981-1989	1990-1992	Total
Jeff Feldner	2	.	2	2	.	2
Phil Lamberson	1	.	1	1	.	1
Rob Lawrence	1	.	1	1	.	1
Bob Llewellyn	225	31	256	1497	101	1598
Dawson & Bobby Mohler	.	1*	1*	.	1*	1*
Dave Nafziger	1	.	1	1	.	1
Floyd Schrock	7	.	7	13	.	13
Peter Schrock	3	.	3	3	.	3
Dale Snow	1	.	1	1	.	1
TOTAL	241	32*	273*	1519	102*	1621*

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ACKNOWLEDGMENTS

We are grateful to the various people who graciously contributed observations used in this article, especially Floyd Schrock.

Bob also thanks his wife Martha Doldt and their daughter Chelsea for their patience, love, and continued interest in the birds of Lincoln County.

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