

SCHROCK'S BIRD RECORDS FOR THE SILETZ/LOGSDEN AREA OF LINCOLN COUNTY

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Schrock, F. and R. D. Bayer. 1994. Schrock's bird records for the Siletz/Logsdens area of Lincoln County. Journal of Oregon Ornithology 2:208-225.

ABSTRACT.--There were 5,776 records during 1981-1986 observations, with 99% of these observations during Schrock's systematic 1982-1985 observations. He found 32 waterbird and 99 landbird species. 16% of the waterbird species were noted each year during 1982-1985, and 58% of the landbirds were recorded each year. Semimonthly summaries of the observations are given for each species, along with arrival and departure dates.

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A. INTRODUCTION & SCHROCK'S BIRDING INFLUENCES

A-1. OPENING

Schrock has made many observations in the Siletz/Logsdens area that are included not only in this article but also in several other articles in this issue of Journal of Oregon Ornithology.

This article only includes Schrock's bird records that are not given elsewhere.

A-2. SCHROCK'S BIRDING INFLUENCES

INTRODUCTION.--Bayer believes that it is important to learn something about what has motivated observers such as Floyd, so he has urged others (e.g., Darrel Faxon in Faxon and Bayer 1993:72-74; Bob Llewellyn in Llewellyn and Bayer 1994:140-141) and Floyd to overcome their reticence and share their background with us. The following account about Floyd is drawn largely from his October 1993 and February 1994 letters.

EARLY INFLUENCES.--Floyd was born in 1947 in Amity, Yamhill County, Oregon and grew up in a Mennonite family in the Salem area.

Floyd remembers taking an interest in birds and nature when he was about four years old and was motivated to do so by his family. Floyd

writes: "My father Manassa had been a birder and egg collector since his youth, and when I came along he included me in many of his expeditions and projects. He had a state and a federal permit for collecting. His collection is at Western Mennonite High School near Salem, Oregon." Manassa also published at least one article in the scientific literature (Schrock 1958).

Another early influence was Alex Walker, who also encouraged many others (e.g., see Alcorn 1975, Bayer and Ferris 1987:3-8 and entries indexed on p. 130). Floyd writes: "My father's friendship with Alex Walker meant that I occasionally was in Mr. Walker's home and in his workshop at the Pioneer Museum in Tillamook. So as a young child, I was impressed with the importance of his work and fascinated with what I saw. The kindness of both Mr. & Mrs. Walker toward me personally also attracted me to what Mr. Walker was doing."

In about 1973, Floyd first became involved with the Salem Audubon Society, whose field note editors encouraged him to contribute his observations of birds.

Floyd hasn't taken academic classes about ornithology but has participated in several Audubon workshops and seminars and has led many bird field trips for the Salem Audubon Society. He has also kept records of bird observations during several years for an area near Salem.

OTHER NATURAL HISTORY INTERESTS.--Floyd notes that his birding has led him to become interested in other areas of natural history, including wildflowers and trees, and, most recently, into studying the atmosphere. Floyd also has an interest in astronomy, made his own telescope, and led an astronomy field trip for Yaquina Birders & Naturalists in Lincoln County.

LINCOLN COUNTY.--In 1980-1986, Floyd, his wife Mary Schrock, and their three children (who ranged in age from 3-15 years old) lived in the Siletz/Logsdens area. While here, Floyd worked in the construction business for about two years and was a school teacher at the Mennonite School in Logsdens for four years.

Floyd writes that he was motivated to do the 227 observations given in this article because: "Having learned about changes in bird populations due to human activity and other factors, I realized that there is much to be learned from long-term observations."

POST-LINCOLN COUNTY.--After leaving Lincoln County, Floyd and his family have gone on missions to Mexico and Japan for the Mennonite Church. Floyd is currently an ESL (English as a Second Language) instructor for Chemeketa Community College in Salem, and continues to lead birding field trips for Salem Audubon.

Floyd writes "I continue to take field notes because it's interesting to look back at my own experiences that would otherwise be forgotten."

B. AUTHORS' DIVISION OF LABOR

Floyd made and recorded almost all of these observations, although members of his family and neighbors added a few.

Floyd was sent the April 1985, October 1989, and January 1990 drafts of this article, in which Floyd's observations were pooled with Bob Llewellyn's Siletz/Logsdens observations. Floyd also reviewed the September 1993 draft that was extensively reorganized and revised by separating Schrock's notes from those of Llewellyn.

Bayer compiled Schrock's observations and prepared them for publication.

C. STUDY AREA AND METHODS

Location: T9S & 10S, R9 & 10W
 Area Studied: ?
 Habitat(s) Studied: Mixed
 Elevation: most <500 ft (<152 m); a few up to 1000 ft (305 m)
 Distance to Coastline: 6-17 mi (10-28 km).

Floyd Schrock's most systematic observations were from June 1982 through 1985 (Table 1). They were made with unaided eyes or binoculars and, after August 1984, sometimes with a 25x spotting scope. His sightings were in portions of

the area shown in Fig. 1, with different areas covered more consistently in some years than in others. These areas included open fields, parts of the Siletz River, creeks, freshwater marshes and ponds, and coniferous and deciduous forest.

Schrock occasionally birded while driving, but generally while hiking. He recorded his observations after he returned home. The duration of his intensive observations in an "Observation" (i.e., an observation in which more than five species were recorded, see Table 1) averaged about 60 min with a minimum of 20 min. Occasionally, he did some owling after dark.

Also included in the Species Accounts (section H) are some incidental records made by Floyd, his family, or neighbors (see footnote @ in Table 2).

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 1993b:14-15). However, TOE does not indicate an effort in which all taxa present were recorded; TOE suggests only that effort was probably sufficient to find most, if not all, conspicuous, common taxa and, perhaps, some of the more inconspicuous or uncommon taxa (Bayer 1993b:10-16).

- A TOE month is:
- 1) a month with three or more systematic observations by an experienced observer;
 - or 2) a month when the number of recorded taxa was 60% or more of the maximum for three or more years for that month, and the observer tried to record all bird taxa present*;
 - or 3) a month when the observer's effort appears systematic enough to record all taxa present*, although the observer has less than three years of observations.

* At elevations under 1000 ft (305 m) in Lincoln County, an observer of land and waterbirds should record at least 15 species/month and have an average of about 8 or more species per observation or the observer may have missed some bird species.

By the second criterion, Schrock had TOE months in June and December 1982, from February 1983 through September 1985, and in December 1985 (Table 2). There were 3-4 years of TOE for each month from February through September and in December; the remaining months only had two years of TOE each (Table 2).

E. SHORTCOMINGS OF OBSERVATIONS

E-1. INTRODUCTION

In any ornithological undertaking there are

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

E-2. SHORTCOMING: OVERLOOKING SPECIES

Although Schrock tried not to disturb any birds while observing, some birds may have flown away or hid, so that they were missed. Further, shy or inconspicuous species could have been overlooked.

Schrock may also have consistently recorded familiar species and often missed unfamiliar species.

E-3. SHORTCOMING: VARIABILITY IN OBSERVATION EFFORT AND SITES COVERED

The number of species sometimes varied markedly among years for the same month (Table 2). Even for months that qualify as TOE, the variation between the minimum and maximum can be great (Table 2). Further, the number of species recorded per observation day was usually quite variable even within the same month (Table 1). Thus, the absence of a species in one year for a particular month, although it was present in other years for that month, may be a result of variable effort, rather than the species' absence.

Schrock did not necessarily cover the same area each visit or may have spent differing amounts of time at each portion of the area, so this could have resulted in differences in what species were reported or missed.

E-4. SHORTCOMING: NO RECORDS OF TIME OF DAY OR DURATION OF OBSERVATIONS

Schrock did not record the time of day when he made observations. But time of day can make a difference in whether or not some species may have been present or observed.

It would also have been helpful to record the duration of observations, so that it is clear that they were consistently of the same length and that a shortage or absence of birds was not a result of brief observations.

E-5. SHORTCOMING: UNKNOWN BIRD ABUNDANCE

Schrock only recorded what bird species were present, not how many there were. Thus, it is not possible to set a baseline for population numbers or to determine seasonal maxima and minima in population numbers.

E-6. SHORTCOMING: NO CONFIRMATION OF RARITIES

Schrock saw a few rare bird species in Lincoln County (Clark's Nutcracker, Vesper Sparrow, and Pine Grosbeak), but another observer didn't corroborate these sightings. However, rarities were only briefly present and getting birders to corroborate sightings in Lincoln County is also rare.

E-7. SHORTCOMING: LACK OF RECORDS SPECIFIC TO INDIVIDUAL HABITATS

Although keeping records for each type of habitat would have been very useful, doing so would have taken more time and effort than Schrock had available.

E-8. SHORTCOMING: ERRORS IN DETERMINING FIRST AND LAST DATES

Dates when Schrock 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 and their averages is examined in detail in Faxon and Bayer (1991:29-31).

F. GENERAL RESULTS AND DISCUSSION

F-1. TOTAL SPECIES

Schrock recorded a total of 131 species (Table 2), with no species recorded only in 1981 or 1986. The peak number seen in a year was 115 species (Table 2).

A minority, 32 species, were waterbirds, and few (16%) of these were observed each year during 1982-1985 (Table 3). In contrast, 58% of terrestrial bird species were recorded in each of these years (Table 3).

F-2. SPECIES/MONTH

The maximum number of birds species found monthly each year and the total number of species reported each month ranged from 37 to 75 and 42 to 87, respectively (Table 2). The greatest number of species usually occurred in May or June (Table 2).

F-3. NUMBER OF SPECIES/OBSERVATION

The peak number of species per observation occurred in May-July, and there was often marked

variation in the number of species noted each observation during a particular month (Table 1). The average number of species per observation ranged from 13 (November 1982 and February 1983) to 42 (June 1985), with the lowest averages usually occurring from October through March (Table 1).

F-4. NESTING SPECIES

The only species with adults at a nest, with nestlings, or with fledged or nonfledged young still receiving parental care was the Golden-crowned Kinglet (section H-91). But many other species probably nested in the area because they were present during the nesting season (section H).

6. FIGURE AND TABLES

Fig. 1. Floyd Schrock's study area in the Siletz/Logsdan area.

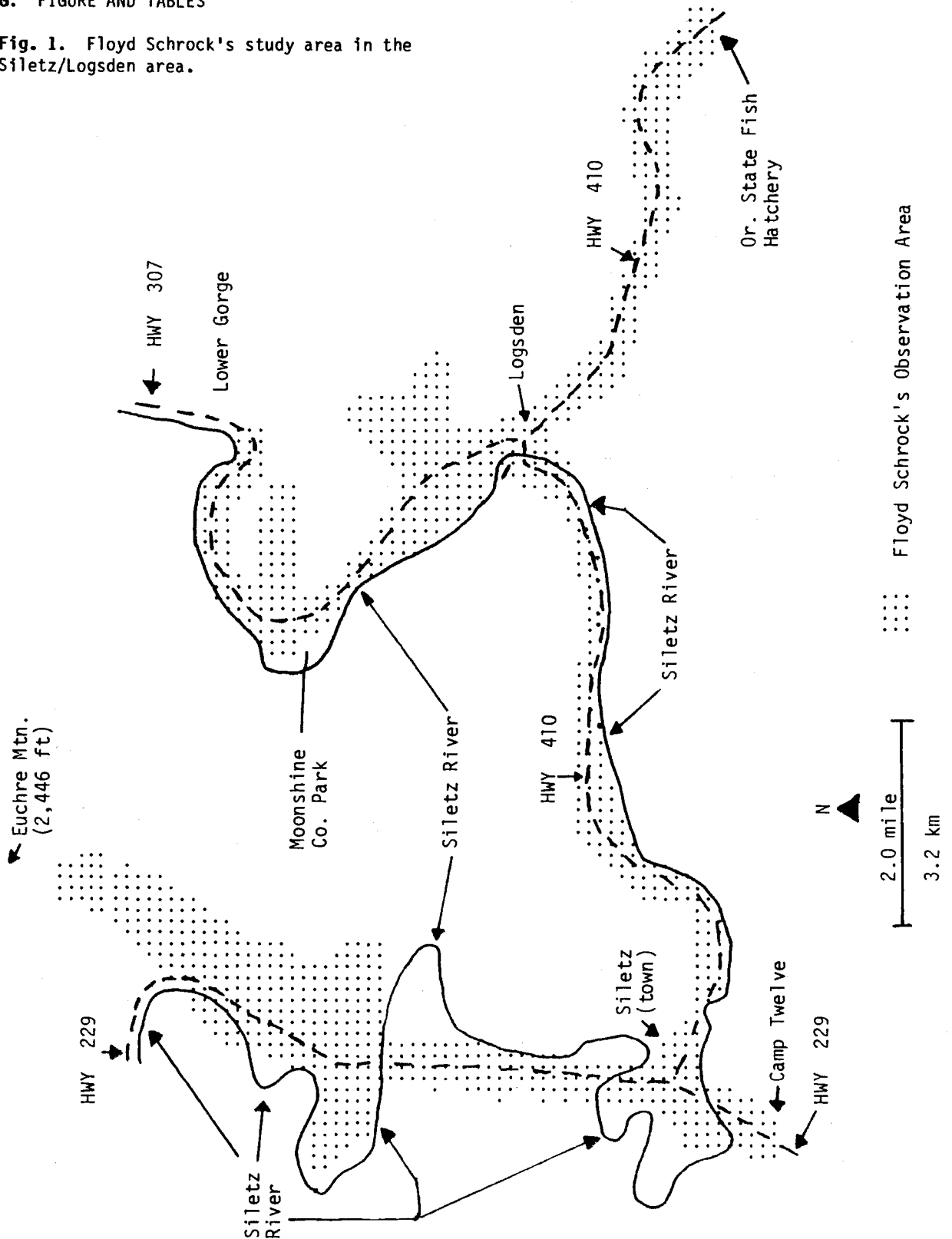


Table 1. Number of Observations and number of species/Observation in 1982-1985 for Siletz/Logsden. There was one Observation per day.

Codes:
Observation=observation when more than five species were recorded.

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).

| Species/Observation..... | | | | | | | | | | | | | | | | | | | | |
|--------------------------|--------------|------|-----|-------|---------------|------|-----|-------|------------|------|-----|-------|------------|------|-----|-------|----------|------|-----|-------|
| Yr | 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 |
| 82 | 0 | - | - | - | 0 | - | - | - | 0 | - | - | - | 0 | - | - | - | 0 | - | - | - |
| 83 | 3 | 10.0 | 1.7 | 9-12 | 4 | 12.8 | 3.0 | 9-16 | 10 | 15.6 | 3.0 | 10-20 | 6 | 24.0 | 2.7 | 20-27 | 6 | 31.8 | 7.6 | 26-42 |
| 84 | 7 | 18.1 | 5.7 | 12-29 | 7 | 18.4 | 5.6 | 14-30 | 7 | 18.3 | 4.5 | 11-23 | 11 | 26.0 | 8.0 | 11-41 | 11 | 36.1 | 9.5 | 23-52 |
| 85 | 1 | 26 | - | 26 | 4 | 17.3 | 4.7 | 14-24 | 3 | 18.0 | 4.0 | 14-22 | 9 | 26.6 | 6.4 | 17-36 | 6 | 38.5 | 3.9 | 34-44 |
| Yrs | 3 | - | - | - | 3 | - | - | - | 3 | - | - | - | 3 | - | - | - | 3 | - | - | - |
| Sum | 11 | - | - | - | 15 | - | - | - | 20 | - | - | - | 26 | - | - | - | 23 | - | - | - |
| MAX | 7 | 18.1 | - | 29 | 7 | 18.4 | - | 30 | 10 | 18.3 | - | 23 | 11 | 26.6 | - | 41 | 11 | 38.5 | - | 52 |

| Species/Observation..... | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-----------|------|------|-------|-----------|------|------|-------|-------------|------|-----|-------|----------------|------|-----|-------|--------------|------|-----|-------|
| Yr | 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 |
| 82 | 7 | 28.9 | 6.3 | 20-38 | 1 | 17 | - | 17 | 3 | 14.3 | 3.5 | 11-18 | 1 | 14 | - | 14 | 3 | 18.0 | 4.6 | 14-23 |
| 83 | 7 | 36.9 | 8.7 | 24-48 | 6 | 38.5 | 5.8 | 30-46 | 5 | 34.8 | 9.4 | 21-43 | 6 | 29.3 | 5.5 | 23-38 | 4 | 26.5 | 6.0 | 20-34 |
| 84 | 6 | 36.7 | 11.5 | 23-54 | 4 | 38.5 | 3.9 | 33-42 | 5 | 34.2 | 6.9 | 23-40 | 8 | 23.1 | 5.2 | 16-32 | 7 | 23.3 | 6.1 | 17-33 |
| 85 | 6 | 41.5 | 8.0 | 33-56 | 4 | 30.8 | 13.9 | 16-48 | 3 | 24.7 | 1.5 | 23-26 | 6 | 22.2 | 7.5 | 11-32 | 3 | 14.7 | 7.6 | 8-23 |
| Yrs | 4 | - | - | - | 4 | - | - | - | 4 | - | - | - | 4 | - | - | - | 4 | - | - | - |
| Sum | 26 | - | - | - | 15 | - | - | - | 16 | - | - | - | 21 | - | - | - | 17 | - | - | - |
| MAX | 7 | 41.5 | - | 56 | 6 | 38.5 | - | 48 | 5 | 34.8 | - | 43 | 8 | 29.3 | - | 38 | 7 | 26.5 | - | 34 |

| Species/Observation..... | | | | | | Total Observations/ Year | | | |
|--------------------------|---------------|------|-----|---------------|----|--------------------------------|-----|-------|-----|
| Yr | November..... | | | December..... | | | | | |
| | N | Mean | SD | Range | N | Mean | SD | Range | |
| 82 | 5 | 13.2 | 4.1 | 10-20 | 3 | 18.3 | 5.7 | 12-23 | 23 |
| 83 | 7 | 17.3 | 4.9 | 12-27 | 6 | 18.5 | 5.6 | 14-28 | 70 |
| 84 | 5 | 23.2 | 8.2 | 11-31 | 6 | 20.0 | 8.2 | 9-32 | 84 |
| 85 | 2 | 18.0 | 2.8 | 16-20 | 3 | 17.3 | 1.5 | 16-19 | 50 |
| Yrs | 4 | - | - | - | 4 | - | - | - | 4 |
| Sum | 19 | - | - | - | 18 | - | - | - | 227 |
| MAX | 7 | 23.2 | - | 31 | 6 | 20.0 | - | 32 | 84 |

Table 2. Total species recorded each month and year and number of records for the Siletz/Logsdan general area. These include Schrock's sightings during Observations (Table 1) and incidental records (see footnotes). These data are calculated from Table 1 and section H. Taxa that are not included as separate species include "Unknown Gulls" (section H-43) and "Yellow-shafted Flickers" (section H-62).

Codes:

*=TOE month based on section D and Table 1
Record=one bird taxon seen or heard during one systematic or incidental Observation
MAX=maximum

Monthly Records (calculated from Table 1)=
(number of Observations) X (Mean Taxa/Obs.),
rounded to the nearest whole number

For 1981 and 1986, the monthly records are simply the number of bird taxa seen or heard during incidental observations.

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 1

. =zero (". " is used to enhance readability)

#Taxa=total number of taxa recorded during all of 1981-1986.

| | Species/Month..... | | | | | | | | | | | | Total Records | Total Taxa | Records per... Taxon | Obs. |
|------------|--------------------|------|------|------|------|------|------|------|------|------|------|------|---------------|------------|----------------------|--------|
| | Ja | Fe | Mr | Ap | My | Jn | Jl | Ag | Sp | Oc | Nv | De | | | | |
| 1981 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 @ | 1 | 1.0 | - |
| 1982 | 1 | 0 | 0 | 0 | 0 | 49* | 17 | 26 | 14 | 27 | 28 | 30* | 451 @ | 69 | 6.5 | 19.6 |
| 1983 | 19 | 25* | 39* | 50* | 63* | 65* | 62* | 59* | 55* | 42* | 44* | 40* | 1749 @ | 109 | 16.0 | 25.0 |
| 1984 | 37* | 41* | 42* | 60* | 75* | 67* | 61* | 60* | 55* | 51* | 50* | 44* | 2202 @ | 115 | 19.1\$ | 26.1\$ |
| 1985 | 28* | 35* | 35* | 65* | 65* | 69* | 57* | 40* | 57* | 26 | 27 | 30* | 1357 @ | 108 | 12.3\$ | 26.6\$ |
| 1986 | 0 | 3 | 7 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 @ | 15 | 1.1 | - |
| MAX | 37 | 41 | 42 | 65 | 75 | 69 | 62 | 60 | 57 | 51 | 50 | 44 | 2202 | 115 | 19.1 | 26.6 |
| 60% of MAX | 22.2 | 24.6 | 25.2 | 39.0 | 45.0 | 41.4 | 37.2 | 36.0 | 34.2 | 30.6 | 30.0 | 26.4 | 1321.2 | 69.0 | - | - |
| yrs of TOE | 2 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 2 | 2 | 4 | - | 4 | - | - |
| #Taxa | 42 | 54 | 57 | 81 | 86 | 87 | 73 | 77 | 83 | 62 | 65 | 68 | - | 131 | - | - |
| MAX/#Taxa | 0.9 | 0.8 | 0.7 | 0.8 | 0.9 | 0.8 | 0.8 | 0.8 | 0.7 | 0.8 | 0.8 | 0.6 | - | 0.9 | - | - |

@ All 1981 and 1986 records were incidental as were six records in 1984 and 27 in 1985. The total number of 1981-1986 records is 5,776.

\$ This does not include incidental records in 1984 and 1985 (see previous footnote).

Table 3. Number and regularity of bird taxa at Siletz/Logsdan. These data are calculated from section H only for the four years (1982-1985) that had 60% or more of the maximum number of taxa recorded in a year (MAX=115) in Table 2. No species was only recorded in 1981 or 1986.

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

| | No. of Years with 60% or more of MAX | Waterbirds..... | | Terrestrial Birds: | |
|--|--------------------------------------|-----------------|------------|--------------------|------------|
| | | No. of Taxa | % of Total | No. of Taxa | % of Total |
| | 1 | 7 | 21.9 | 10 | 10.1 |
| | 2 | 8 | 25.0 | 11 | 11.1 |
| | 3 | 12 | 37.5 | 21 | 21.2 |
| | 4 | 5 | 15.6 | 57 | 57.6 |
| | Sum | 32 | 100.0 | 99 | 100.0 |

H. SPECIES ACCOUNTS

H-1. FIRST AND LAST DATES

These are the first and last dates, respectively, that a species was recorded. Note that a species 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 species 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.

H-2. AVERAGE FIRST AND LAST DATES

AV First=average (earliest date-latest date)
 AV Last=average (earliest date-latest date)

AV First, AV Last=averages (AV) are only calculated for species with at least three years of First or Last dates and in which an average appears appropriate. For some species, the range in First or Last dates is so great that an average doesn't appear meaningful and is not calculated.

H-3. SEMIMONTHLY FREQUENCY

- A.=species recorded in the first part (1-15th) of a month; it wasn't noted later that month.
- .Z=species recorded from the 16th to the end of a month; it wasn't noted earlier that month.
- AZ=species recorded during both portions (1-15th and 16th-end) of a month.
- ..=species not recorded in a month when the number of observations was probably sufficient to detect it (i.e., a TOE month, see section D, Table 2). Thus, the species was probably absent, but there is still a chance that it may have been overlooked. A ".." was used instead of a "0" (zero) to enhance readability of when a species appears to have been absent.
- ?=species not recorded during a month of apparent low observation effort (i.e., a non-TOE month; see Table 2). Thus, the apparent absence of a species may reflect inadequate observations, not a species' absence.

H-4. AVERAGE MONTHLY FREQUENCY

AV MONTH. FREQ=average monthly frequency of occurrence of a taxon (e.g., Bayer 1993b:20). The relative frequency is expressed by a number in deciles, "..", "+", "X", or "?", depending on the presence or absence of a taxon and the adequacy of observation effort.

1-10=average monthly frequency in deciles.
 If there were at least three years of TOE for a month (see Table 2), this was calculated by dividing the number of TOE years in which a species was recorded by the total number of TOE years for that month. The result was then multiplied by 10 and rounded off to the nearest whole number.

- There were only two TOE years for January, October, and November (Table 2). Nevertheless, a decile of 10 was assigned if a species was recorded in at least three years during 1982-1985 for a month.
- ..=decile of zero, and the species was also not recorded in non-TOE months. A ".." is used instead of a "0" to enhance readability of when a species appears to have been absent.
- + =if a decile was calculable (i.e., there were three or more years with TOE for that month), it was zero, but the taxon was recorded during one non-TOE month; if a decile was not calculable, the taxon was only recorded during one month (whether TOE or not).
- X=if a decile was calculable (i.e., there were three or more years with TOE for that month), it was zero, but the taxon was recorded during two or more non-TOE months; if a decile was not calculable, the taxon was only recorded during two or more months (whether TOE or not).

H-5. SPECIES STATUS

UNCONFIRMED=species seen only by one person and was listed as a Review Species or not listed at all for Lincoln County in Bayer (1993a). Or this species was seen only by one person, but it is rare along the Oregon Coast and can be difficult to distinguish from other much more commoner species occurring along the Oregon Coast.

H-6. AMERICAN BITTERN

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

AV MONTH. FREQ ? ? + 3

H-7. GREAT BLUE HERON
 YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De
 82 - - ? ? ? ? ? .. ? ? ? ? ? .Z
 83 - - A. A. A.Z
 84 - - .Z AZ A. .Z .. A. AZ
 85 - - A. .Z AZ AZ .. .Z ? ? ..
 AV MONTH. FREQ X 3 3 7 7 8 3 3 7 ? ? 3

H-8. CATTLE EGRET
 YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De
 84 11/03 12/28 A. AZ
 AV MONTH. FREQ ? ? + 3
 On 8 December 1984, 38 were seen near
 Logsden; otherwise, five or less were counted.

H-9. GREEN-BACKED HERON
 YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De
 83 05/22 05/29 ?Z
 84 04/13 08/13 AZ AZ .. .Z A.
 85 05/24 07/12Z AZ A. ? ? ..
 AV MONTH. FREQ ? 3 10 3 7 3 .. ? ? ..
 AV First=4/30 (4/13-5/24)

H-10. TUNDRA SWAN
 YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De
 84 10/27 10/27Z
 AV MONTH. FREQ ? + ? ..
 Seven flew over.

H-11. SNOW GOOSE
 YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De
 85 12/24 12/24 ? ? .Z
 AV MONTH. FREQ ? ? ? 3

H-12. CANADA GOOSE
 YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De
 83 10/22 10/22 ?Z
 84 04/08 04/08
 84 11/03 11/30 A. AZ ..
 AV MONTH. FREQ 3 + + ..
 These are all flyovers, not grounded birds.

H-13. WOOD DUCK
 YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De
 82 - - ? ? ? ? ? A. ? ? A. ? ? ..
 84 02/04 05/13Z
 84 09/18 09/18 .. A. A. .. A.Z
 85 04/05 04/28 AZ ? ? ..
 AV MONTH. FREQ ? 3 3 3 3 3 3 ? ? ..

H-14. GREEN-WINGED TEAL
 YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De
 83 04/14 04/14 ? A.
 84 09/23 12/08Z .. .Z A.
 85 05/12 05/12 A. ? ? ..
 AV MONTH. FREQ ? 3 3 3 ? + 3

H-15. MALLARD
 YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De
 82 - - ? ? ? ? ? .. ? ? ? ? ? AZ
 83 - - ? A. .. A. AZ A. .Z .Z .. AZ
 84 - - .Z AZ A. AZ A. A. .. .Z AZ AZ AZ ..
 85 - - .Z .. AZ A. AZ AZ .. AZ .Z AZ A. ..
 AV MONTH. FREQ X 3 7 10 7 8 3 10 10 10 X 5

H-16. NORTHERN PINTAIL
 YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De
 84 02/12 02/12 .. A.
 85 05/24 05/24
 85 08/18 09/21ZZ .Z ? ? ..
 AV MONTH. FREQ ? 3 3 3 3 ? ? ..

H-17. NORTHERN SHOVELER
 YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De
 84 12/06 12/25 AZ
 85 09/21 09/21Z ? ? ..
 AV MONTH. FREQ ? 3 ? ? 3

H-18. AMERICAN WIGEON
 YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De
 82 12/13 12/26 ? ? ? ? ? .. ? ? ? ? ? AZ
 85 - 02/18
 85 09/21 09/21 .Z .ZZ ? ? ..
 AV MONTH. FREQ + 3 3 ? ? 3

H-19. RING-NECKED DUCK
 YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De
 83 - 05/29 ?Z
 84 11/18 04/29 .. A. .. AZZ AZ
 85 11/16 04/20 AZ ? .Z ..
 AV MONTH. FREQ ? 3 .. 7 3 ? X 3
 AV Last=5/6 (4/20-5/29)

H-20. LESSER SCAUP
 YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De
 84 10/10 01/22 .Z A. AZ AZ
 AV MONTH. FREQ + + + 3

H-21. BUFFLEHEAD

| YR | First | Last | Ja | Fe | Mr | Ap | My | Jn | Jl | Ag | Sp | Oc | Nv | De |
|----|-------|-------|----|----|----|----|----|----|----|----|----|----|------|----|
| 83 | - | 04/24 | ? | .. | .. | AZ | .. | .. | .. | .. | .. | .. | .. | .. |
| 84 | 11/03 | 04/30 | .Z | .. | .. | AZ | .. | .. | .. | .. | .. | .. | AZ | AZ |
| 85 | 11/16 | 04/29 | .Z | .. | .Z | AZ | .. | .. | .. | .. | .. | .. | ? .Z | .Z |

AV MONTH. FREQ X .. 3 10 ? X 5
 AV Last=4/28 (4/24-4/30)

H-22. HOODED MERGANSER

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

AV MONTH. FREQ + 7 10 7 10 5 7 10 7 X ? 3
 In 1983, seven were seen on February 8, and
 16 were noted on May 30.

H-23. COMMON MERGANSER

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

AV MONTH. FREQ + 3 3 .. 3 .. 3 3 .. ? ? 5

H-24. TURKEY VULTURE

| YR | First | Last | Ja | Fe | Mr | Ap | My | Jn | Jl | Ag | Sp | Oc | Nv | De |
|----|-------|-------|----|----|----|----|----|----|----|----|----|----|----|----|
| 82 | - | 09/13 | ? | ? | ? | ? | ? | AZ | ? | .Z | A. | ? | ? | .. |
| 83 | 03/24 | 09/24 | ? | .. | .Z | AZ | AZ | AZ | AZ | AZ | .. | .. | .. | .. |
| 84 | 03/24 | 09/23 | .. | .. | .Z | AZ | AZ | AZ | AZ | AZ | .. | .. | .. | .. |
| 85 | 03/18 | 09/27 | .. | .. | .Z | AZ | AZ | AZ | AZ | AZ | .Z | ? | ? | .. |
| 86 | 03/20 | - | ? | ? | .Z | ? | ? | ? | ? | ? | ? | ? | ? | ? |

AV MONTH. FREQ ? .. 10 10 10 10 10 10 ? ? ..
 AV First=3/22 (3/18-3/24) AV Last=9/22(9/13-09/27)

H-25. BLACK-SHOULDERED KITE

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

AV MONTH. FREQ + .. 3 + ? ? 5

H-26. NORTHERN HARRIER

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

AV MONTH. FREQ + ? ? 3

H-27. SHARP-SHINNED HAWK

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

AV MONTH. FREQ ? .. . 3 .. 3 .. . 3 + X 3

H-28. COOPER'S HAWK

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

AV MONTH. FREQ + 3 .. . 3 3 .. . 3 + ? 3

H-29. RED-TAILED HAWK

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

AV MONTH. FREQ 10 7 7 7 7 8 3 10 10 X 10 5

H-30. AMERICAN KESTREL

| YR | First | Last | Ja | Fe | Mr | Ap | My | Jn | Jl | Ag | Sp | Oc | Nv | De |
|----|-------|------|----|----|----|----|----|----|----|----|----|----|----|----|
| 82 | - | - | ? | ? | ? | ? | ? | AZ | ? | ? | A. | ? | ? | A. |
| 83 | 10/15 | - | ? | .. | .. | .. | .. | .. | .. | .. | .. | .. | A. | AZ |
| 84 | 09/15 | - | .Z | .Z | .. | .. | .. | .. | .. | .. | .. | .. | A. | .Z |

AV MONTH. FREQ + 3 .. . 3 .. . 3 + X 3

In June 1982, one noted on the 8th, 14th, and
 26th may have been nesting.

H-31. BLUE GROUSE

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

AV MONTH. FREQ ? .. . 7 .. 3 .. . 3 ? ? ..

H-32. RUFFED GROUSE

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

AV MONTH. FREQ + .. 7 10 7 3 .. 3 7 X + 3

On 5 April 1985 and 29 March 1986, one was
 drumming.

H-33. MOUNTAIN QUAIL

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

AV MONTH. FREQ ? .. . 3 3 5 3 3 .. ? + ..

H-34. VIRGINIA RAIL

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

AV MONTH. FREQ ? 3 + + ..

H-35. KILLDEER
 YR First Last Ja Fe Mr Ap My Jn J1 Ag Sp Oc Nv De
 82 - - ? ? ? ? ? .. ? ? ? ? .Z ..
 83 - - ? .. AZ AZ .Z AZ AZ AZ .Z AZ .Z .Z
 84 - - .Z AZ .. AZ AZ A. AZ AZ AZ AZ .Z AZ
 85 - - .Z AZ A. A. AZ AZ AZ AZ .Z A. ? AZ

AV MONTH. FREQ X 7 7 10 10 8 10 10 10 10 10 8

H-36. GREATER YELLOWLEGS
 YR First Last Ja Fe Mr Ap My Jn J1 Ag Sp Oc Nv De
 84 04/05 04/21 AZ
 85 04/09 04/09 A. ? .Z ..
 85 11/17 11/17 A. ? .Z ..

AV MONTH. FREQ ? 7 ? + ..

H-37. LESSER YELLOWLEGS
 YR First Last Ja Fe Mr Ap My Jn J1 Ag Sp Oc Nv De
 83 07/02 07/02 ? A.
 85 04/12 04/12 A. A. AZ .Z ? ? ..
 85 07/12 09/26 A. A. AZ .Z ? ? ..

AV MONTH. FREQ ? 3 7 3 3 ? ? ..

H-38. SPOTTED SANDPIPER
 YR First Last Ja Fe Mr Ap My Jn J1 Ag Sp Oc Nv De
 83 05/29 - ?Z A. AZ
 84 05/13 12/01 AZ AZ .Z AZ .Z .. AZ A.
 85 05/07 08/13 A. AZ AZ A. .. ? ? ..

AV MONTH. FREQ ? 10 8 10 7 3 ? + 3
 AV First=5/16 (5/7-5/29)

H-39. LEAST SANDPIPER
 YR First Last Ja Fe Mr Ap My Jn J1 Ag Sp Oc Nv De
 83 11/24 11/24 ?Z ..
 84 05/06 05/06 A.
 85 08/18 08/18Z .. ? ? ..

AV MONTH. FREQ ? 3 3 .. ? + ..

H-40. PECTORAL SANDPIPER
 YR First Last Ja Fe Mr Ap My Jn J1 Ag Sp Oc Nv De
 84 09/03 09/03 A.
 85 08/25 10/05Z .. A. ? ..

AV MONTH. FREQ ? 3 3 + ? ..

H-41. COMMON SNIPE
 YR First Last Ja Fe Mr Ap My Jn J1 Ag Sp Oc Nv De
 82 - - ? ? ? ? ? .. ? ? ? ? .Z A.
 83 - - ? .Z AZ A. A.
 84 10/13 05/03 .. A. A. AZ A. AZ ..
 85 09/22 - .. A.Z ? ? ..

AV MONTH. FREQ ? 10 7 7 3 3 + + 5

H-42. RED-NECKED PHALAROPE
 YR First Last Ja Fe Mr Ap My Jn J1 Ag Sp Oc Nv De
 83 11/19 11/19 ?Z ..

AV MONTH. FREQ ? ? + ..

H-43. UNKNOWN GULLS
 YR First Last Ja Fe Mr Ap My Jn J1 Ag Sp Oc Nv De
 83 12/25 12/25 ?Z

AV MONTH. FREQ ? ? ? 3

H-44. MEW GULL
 YR First Last Ja Fe Mr Ap My Jn J1 Ag Sp Oc Nv De
 83 11/19 12/11 ?Z A.
 84 10/14 12/25 AZ AZ .Z

AV MONTH. FREQ ? + X 5
 Also see preceding "unknown gulls."

H-45. RING-BILLED GULL
 YR First Last Ja Fe Mr Ap My Jn J1 Ag Sp Oc Nv De
 83 11/19 11/19 ?Z ..

AV MONTH. FREQ ? ? + ..
 Also see preceding "unknown gulls."

H-46. GLAUCOUS-WINGED GULL
 YR First Last Ja Fe Mr Ap My Jn J1 Ag Sp Oc Nv De
 83 12/25 12/25 ?Z
 85 09/21 09/21Z ? ? ..

AV MONTH. FREQ ? 3 ? ? 3
 On 25 December 1983, 250 flew over the
 Logsdan area.

Also see preceding "unknown gulls."

H-47. BAND-TAILED PIGEON
 YR First Last Ja Fe Mr Ap My Jn J1 Ag Sp Oc Nv De
 82 - 09/13 ? ? ? ? AZ .Z AZ A. ? ? ..
 83 03/26 09/24 ? .. .Z .. .Z AZ AZ AZ AZ
 84 03/24 09/23Z AZ AZ AZ AZ AZ
 85 04/12 09/26 AZ AZ AZ AZ .. .Z ? ? ..

AV MONTH. FREQ ? .. 7 7 10 10 10 7 10 ? ? ..
 AV First=3/31 (3/24-4/12) AV Last=9/22 (9/13-9/26)

H-48. MOURNING DOVE
 YR First Last Ja Fe Mr Ap My Jn J1 Ag Sp Oc Nv De
 84 11/03 11/03 A. ..
 85 05/12 06/25
 85 09/28 11/19 A. .ZZ ? AZ ..

AV MONTH. FREQ ? 3 3 .. 3 ? X ..

H-49. BARN OWL

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

AV MONTH. FREQ + 3 7 3 7 5 7 3 10 X ? ..
 In late 1982, Schrock learned that a Logsdan area farmer had been shooting these owls because they were fouling hay in his barn. Such shooting could be one reason why these owls are not more common in Lincoln County.

On 24 January 1984, two of these owls were grappling in flight with a third nearby. At least one was calling on 25 February 1985. These records are probably incomplete because Schrock did not regularly spend much time owling.

H-50. WESTERN SCREECH-OWL

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

AV MONTH. FREQ 10 7 3 3 .. 3 10 7 3 + + ..
 These owls were heard calling on 28 April and 21 September 1983, 5 and 15 January 1985, and 21 March 1986.

These records are probably incomplete because Schrock did not regularly spend much time owling.

H-51. GREAT HORNED OWL

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

AV MONTH. FREQ X 3 .. ? ? ..
 These owls were heard calling on 5 and 15 January 1985.

These records are probably incomplete because Schrock did not regularly spend much time owling.

H-52. NORTHERN PYGMY-OWL

| YR | First | Last | Ja | Fe | Mr | Ap | My | Jn | Jl | Ag | Sp | Oc | Nv | De |
|----|-------|------|----|----|----|----|----|----|----|----|----|----|----|----|
| 84 | - | - | .. | A. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |

AV MONTH. FREQ ? 3 ? ? ..
 These records are probably incomplete because Schrock did not regularly spend much time owling.

H-53. SHORT-EARED OWL

| YR | First | Last | Ja | Fe | Mr | Ap | My | Jn | Jl | Ag | Sp | Oc | Nv | De |
|----|-------|-------|----|----|----|----|----|----|----|----|----|----|----|----|
| 84 | 12/30 | 12/30 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .Z |

AV MONTH. FREQ ? ? ? 3
 One was seen once.

H-54. NORTHERN SAW-WHET OWL

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

AV MONTH. FREQ ? 7 3 3 3 + ? ..
 These owls were calling on 2 February 1984 and 25 February and 13 March 1985.

These records are probably incomplete because Schrock did not regularly spend much time owling.

H-55. COMMON NIGHTHAWK

| YR | First | Last | Ja | Fe | Mr | Ap | My | Jn | Jl | Ag | Sp | Oc | Nv | De |
|----|-------|-------|----|----|----|----|----|----|----|----|----|----|----|----|
| 82 | 06/09 | 08/30 | ? | ? | ? | ? | ? | ? | AZ | ? | ? | ? | ? | .. |
| 83 | 06/07 | 08/20 | ? | .. | .. | .. | .. | AZ | AZ | AZ | .. | .. | .. | .. |
| 84 | - | - | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| 85 | 06/05 | - | .. | .. | .. | .. | .. | A. | .. | .. | .. | ? | ? | .. |

AV MONTH. FREQ ? 8 3 3 .. ? ? ..
 AV First=6/7 (6/5-6/9)

H-56. VAUX'S SWIFT

| YR | First | Last | Ja | Fe | Mr | Ap | My | Jn | Jl | Ag | Sp | Oc | Nv | De |
|----|-------|-------|----|----|----|----|----|----|----|----|----|----|----|----|
| 83 | - | 08/13 | ? | .. | .. | .. | .Z | AZ | .. | A. | .. | .. | .. | .. |
| 84 | 04/21 | 07/20 | .. | .. | .. | .Z | .Z | AZ | AZ | .. | .. | .. | .. | .. |
| 85 | 04/28 | - | .. | .. | .. | .Z | .. | A. | A. | .. | .. | ? | ? | .. |

AV MONTH. FREQ ? 7 7 8 7 3 .. ? ? ..
 100 were seen on 2 May 1981 at the Oregon State (Rock Creek) Fish Hatchery (Fig. 1) at about 1830 (6:30 PM) Pacific Standard Time, but usually 25 or less were found.

H-57. RUFIOUS HUMMINGBIRD

| YR | First | Last | Ja | Fe | Mr | Ap | My | Jn | Jl | Ag | Sp | Oc | Nv | De |
|----|-------|-------|----|----|----|----|----|----|----|----|----|----|----|----|
| 82 | - | 08/12 | ? | ? | ? | ? | ? | AZ | .Z | A. | ? | ? | ? | .. |
| 83 | 03/14 | 08/20 | ? | .. | AZ | AZ | AZ | AZ | AZ | .. | .. | .. | .. | .. |
| 84 | 03/11 | 08/04 | .. | .. | AZ | AZ | AZ | AZ | A. | .. | .. | .. | .. | .. |
| 85 | - | 08/13 | .. | .. | .Z | AZ | AZ | AZ | A. | .. | ? | ? | ? | .. |
| 86 | 02/27 | - | ? | .Z | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? |

AV MONTH. FREQ ? + 10 10 10 10 10 10 .. ? ? ..
 AV First=3/8 (2/27-3/14) AV Last=8/12 (8/4-8/20)

H-58. BELTED KINGFISHER

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

AV MONTH. FREQ ? 3 3 3 10 10 10 10 + 10 3

H-59. RED-BREASTED SAPSUCKER

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

AV MONTH. FREQ ? 3 .. 3 3 5 .. 3 X X 8

H-60. DOWNY WOODPECKER

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

AV MONTH. FREQ 10 10 10 7 7 8 3 10 10 10 10 8

H-61. HAIRY WOODPECKER

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

AV MONTH. FREQ + 7 10 10 10 8 7 7 7 + 10 10

H-62. NORTHERN FLICKER

"Red-shafted" Flicker:

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

AV MONTH. FREQ X 10 10 10 10 10 10 10 10 10 10 10

"Yellow-shafted" or "Red-shafted/Yellow-shafted" hybrid Flicker:

| YR | First | Last | Ja | Fe | Mr | Ap | My | Jn | Jl | Ag | Sp | Oc | Nv | De |
|----|-------|-------|----|----|----|----|----|----|----|----|----|----|----|----|
| 81 | 11/17 | 11/17 | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | .Z | ? |
| 82 | 01/04 | 01/04 | A. | ? | ? | ? | ? | .. | ? | ? | ? | ? | ? | .. |

AV MONTH. FREQ + ? + ..

Schrock noted a single "yellow-shafted" only on the 1981 and 1982 dates indicated, not in other years. He saw both at his home that was about 3 mi (5 km) north of the town of Siletz along Highway 229.

H-63. PILEATED WOODPECKER

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

AV MONTH. FREQ + 7 10 10 10 10 10 7 10 10 10 3

H-64. OLIVE-SIDED FLYCATCHER

| YR | First | Last | Ja | Fe | Mr | Ap | My | Jn | Jl | Ag | Sp | Oc | Nv | De |
|----|-------|-------|----|----|----|----|----|----|----|----|----|----|----|----|
| 83 | 05/12 | 08/10 | ? | .. | .. | .. | AZ | AZ | AZ | A. | .. | .. | .. | .. |
| 84 | 05/03 | 06/11 | .. | .. | .. | .. | AZ | A. | .. | .. | .. | .. | .. | .. |
| 85 | 05/07 | 07/12 | .. | .. | .. | .. | AZ | A. | A. | .. | .. | ? | ? | .. |

AV MONTH. FREQ ? 10 8 7 3 .. ? ? ..
AV First=5/7 (5/3-5/12)

H-65. WESTERN WOOD-PEWEE

| YR | First | Last | Ja | Fe | Mr | Ap | My | Jn | Jl | Ag | Sp | Oc | Nv | De |
|----|-------|-------|----|----|----|----|----|----|----|----|----|----|----|----|
| 82 | - | - | ? | ? | ? | ? | ? | .Z | ? | ? | ? | ? | ? | .. |
| 83 | - | 08/25 | ? | .. | .. | .. | .. | .Z | .Z | AZ | .. | .. | .. | .. |
| 84 | 05/15 | 08/26 | .. | .. | .. | .. | AZ | A. | .. | AZ | .. | .. | .. | .. |
| 85 | 05/23 | 08/22 | .. | .. | .. | .. | .Z | .Z | AZ | AZ | .. | ? | ? | .. |

AV MONTH. FREQ ? 7 10 7 10 .. ? ? ..
AV Last=8/24 (8/22-8/26)

H-66. WILLOW FLYCATCHER

| YR | First | Last | Ja | Fe | Mr | Ap | My | Jn | Jl | Ag | Sp | Oc | Nv | De |
|----|-------|-------|----|----|----|----|----|----|----|----|----|----|----|----|
| 82 | - | - | ? | ? | ? | ? | ? | A. | ? | ? | ? | ? | ? | .. |
| 83 | 05/29 | 08/13 | ? | .. | .. | .. | .Z | AZ | AZ | A. | .. | .. | .. | .. |
| 84 | 05/26 | 08/04 | .. | .. | .. | .. | .Z | AZ | AZ | A. | .. | .. | .. | .. |
| 85 | 05/24 | 07/28 | .. | .. | .. | .. | .Z | AZ | AZ | .. | .. | ? | ? | .. |

AV MONTH. FREQ ? 10 10 10 7 .. ? ? ..
AV First=5/26 (5/24-5/29) AV Last=8/5 (7/28-8/13)

H-67. HAMMOND'S FLYCATCHER

| YR | First | Last | Ja | Fe | Mr | Ap | My | Jn | Jl | Ag | Sp | Oc | Nv | De |
|----|-------|-------|----|----|----|----|----|----|----|----|----|----|----|----|
| 85 | 09/18 | 09/18 | .. | .. | .. | .. | .. | .. | .. | .Z | ? | ? | ? | .. |

AV MONTH. FREQ ? 3 ? ? ..

H-68. PACIFIC-SLOPE FLYCATCHER

| YR | First | Last | Ja | Fe | Mr | Ap | My | Jn | Jl | Ag | Sp | Oc | Nv | De |
|----|-------|-------|----|----|----|----|----|----|----|----|----|----|----|----|
| 82 | - | - | ? | ? | ? | ? | ? | AZ | .Z | ? | ? | ? | ? | .. |
| 83 | 05/12 | 09/03 | ? | .. | .. | .. | AZ | A. | AZ | AZ | A. | .. | .. | .. |
| 84 | 05/06 | 08/19 | .. | .. | .. | .. | AZ | AZ | AZ | AZ | .. | .. | .. | .. |
| 85 | 04/20 | - | .. | .. | .. | .. | .Z | AZ | AZ | A. | .. | .. | ? | ? |
| 86 | 05/04 | - | ? | ? | ? | ? | A. | ? | ? | ? | ? | ? | ? | ? |

AV MONTH. FREQ ? 3 10 10 10 7 3 ? ? ..
AV First=5/3 (4/20-5/12)

H-69. WESTERN KINGBIRD

| YR | First | Last | Ja | Fe | Mr | Ap | My | Jn | Jl | Ag | Sp | Oc | Nv | De |
|----|-------|-------|----|----|----|----|----|----|----|----|----|----|----|----|
| 83 | 06/05 | 06/05 | ? | .. | .. | .. | .. | A. | .. | .. | .. | .. | .. | .. |
| 84 | 05/14 | 05/15 | .. | .. | .. | .. | .. | A. | .. | .. | .. | .. | .. | .. |
| 85 | 04/29 | 05/12 | .. | .. | .. | .. | .Z | A. | .. | .. | .. | ? | ? | .. |
| 86 | 05/06 | 05/06 | ? | ? | ? | ? | A. | ? | ? | ? | ? | ? | ? | ? |

AV MONTH. FREQ ? 3 7 3 ? ? ..
AV First=5/14 (4/29-6/5) AV Last=5/17 (5/6-6/5)

H-70. PURPLE MARTIN

| YR | First | Last | Ja | Fe | Mr | Ap | My | Jn | Jl | Ag | Sp | Oc | Nv | De |
|----|-------|-------|----|----|----|----|----|----|----|----|----|----|----|----|
| 83 | 08/13 | 09/03 | ? | .. | .. | .. | .. | .. | .. | A. | A. | .. | .. | .. |
| 84 | 08/13 | 08/13 | .. | .. | .. | .. | .. | .. | .. | A. | .. | .. | .. | .. |
| 85 | 08/24 | 08/24 | .. | .. | .. | .. | .. | .. | .. | .Z | .. | ? | ? | .. |

AV MONTH. FREQ ? 10 3 ? ? ..
AV First=8/17 (8/13-8/24) AV Last=8/24 (8/13-9/3)

Two were noted on 3 September 1983, and three were seen on 24 August 1985.

H-71. TREE SWALLOW

YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De
 82 - - ? ? ? ? ? AZ ? ? ? ? ? ..
 83 03/17 08/20 ? .. .Z .. AZ AZ AZ .Z
 84 03/04 08/26 AZ AZ AZ AZ AZ
 85 03/06 08/22 AZ AZ AZ AZ AZ .Z .. ? ?
 86 02/26 - ? .Z ? ? ? ? ? ? ? ? ? ?

AV MONTH. FREQ ? + 10 7 10 10 10 10 .. ? ? ..
 AV First=3/7 (2/26-3/17) AV Last=8/23 (8/20-8/26)

H-72. VIOLET-GREEN SWALLOW

YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De
 82 - - ? ? ? ? ? AZ ? ? ? ? ? ..
 83 03/16 09/24 ? .. .Z AZ AZ AZ AZ AZ
 84 03/04 10/10 AZ AZ AZ AZ AZ AZ A. ? ..
 85 03/02 09/21 AZ AZ AZ AZ AZ AZ .Z ? ?

AV MONTH. FREQ ? .. 10 10 10 10 10 10 + ? ..
 AV First=3/7 (3/2-3/16) AV Last=9/28 (9/21-10/10)

Although none were present in 1984 from September 25 to October 10, a wave of them came through on October 10.

H-73. NO. ROUGH-WINGED SWALLOW

YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De
 83 04/14 07/31 ? AZ AZ A. .Z
 84 04/21 08/26Z AZ AZ A. AZ
 85 04/20 08/18Z .Z AZ A. .Z .. ? ?

AV MONTH. FREQ ? 10 10 8 10 7 .. ? ? ..
 AV First=4/18 (4/14-4/21) AV Last=8/15(7/31-8/26)

H-74. CLIFF SWALLOW

YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De
 82 - - ? ? ? ? ? AZ ? ? ? ? ? ..
 83 - 08/25 ? AZ AZ AZ AZ
 84 04/21 08/26Z AZ AZ AZ AZ
 85 04/29 -Z AZ AZ AZ A. .. ? ?

AV MONTH. FREQ ? 7 10 10 10 10 .. ? ? ..

H-75. BARN SWALLOW

YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De
 82 - - ? ? ? ? ? AZ .Z AZ ? ? ? ..
 83 04/17 09/24 ?Z AZ AZ AZ AZ AZ
 84 04/05 10/02 AZ AZ AZ AZ AZ AZ A.
 85 04/09 09/18 AZ AZ AZ AZ AZ .Z ? ?

AV MONTH. FREQ ? 10 10 10 10 10 10 + ? ..
 AV First=4/10 (4/5-4/17) AV Last=9/25 (9/18-10/2)

H-76. GRAY JAY

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

AV MONTH. FREQ ? + + ..

H-77. STELLER'S JAY

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

AV MONTH. FREQ X 10 10 10 10 10 10 10 10 10 10

H-78. SCRUB JAY

YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De
 84 06/11 06/11 A.

AV MONTH. FREQ ? 3 ? ? ..
 Three were seen once on only one day.

H-79. CLARK'S NUTCRACKER

YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De
 83 10/15 10/15 ? A.

AV MONTH. FREQ ? + ? ..
 Schrock saw one near Logsden.

H-80. AMERICAN CROW

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

AV MONTH. FREQ 10 10 10 10 10 10 10 10 10 10

H-81. COMMON RAVEN

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

AV MONTH. FREQ ? 10 7 10 10 10 10 10 10 10

H-82. BLACK-CAPPED CHICKADEE

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

AV MONTH. FREQ X 7 7 10 10 10 10 7 10 10 10

H-83. CHESTNUT-BACKED CHICKADEE

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

AV MONTH. FREQ 10 7 7 10 10 10 10 7 10 10 10

H-84. BUSHTIT
 YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De
 83 - - ? .. AZ AZ AZ AZ .. A.
 84 - - .. A. .. A. AZ AZ AZ A.
 85 - -Z ? ? ..
 AV MONTH. FREQ ? 3 3 7 7 5 3 7 3 ? ? ..

H-85. RED-BREASTED NUTHATCH
 YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De
 83 07/31 10/15 ?Z .. AZ A. . . .
 84 06/09 12/06 A. .Z AZ AZ AZ .. A.
 85 03/21 06/01Z A. .. A. . . . ? ? ..
 AV MONTH. FREQ ? .. 3 3 .. 5 7 3 7 X ? 3

H-86. BROWN CREEPER
 YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De
 83 - - ? A.
 84 - - A.
 85 - - .. .Z ? ? ..
 AV MONTH. FREQ ? 3 3 .. ? ? 3

H-87. BEWICK'S WREN
 YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De
 82 - - ? ? ? ? ? .. ? ? ? .Z AZ ..
 83 - - .Z .. AZ AZ AZ AZ AZ AZ AZ A. A.
 84 - - .Z AZ .. AZ AZ A. AZ A. AZ A. A. .
 85 - - .Z .Z A. A. A. A. .Z .. .Z ? AZ .Z
 AV MONTH. FREQ 10 7 7 10 10 8 10 7 10 10 10 5

H-88. WINTER WREN
 YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De
 82 - - ? ? ? ? ? AZ ? .Z A. .Z AZ AZ
 83 - - .Z AZ AZ AZ AZ A. AZ AZ AZ AZ AZ AZ
 84 - - AZ AZ AZ AZ AZ AZ AZ AZ AZ AZ AZ AZ
 85 - - .Z AZ AZ AZ AZ AZ .. AZ .Z AZ ? ..
 AV MONTH. FREQ 10 10 10 10 10 10 7 10 10 10 10 8

H-89. MARSH WREN
 YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De
 82 - - ? ? ? ? ? AZ ? ? ? .Z .Z AZ
 AV MONTH. FREQ ? 3 + + 3

H-90. AMERICAN DIPPER
 YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De
 83 - - .Z A. AZ AZ .. AZ A.
 84 - - .Z .Z A. . . . AZ .ZZ
 85 - - .Z AZ .Z A. AZ AZ ? ? ..
 AV MONTH. FREQ 10 10 10 3 3 5 3 .. 3 ? + 5

H-91. GOLDEN-CROWNED KINGLET
 YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De
 82 - - ? ? ? ? ? .Z ? .Z ? .Z AZ AZ
 83 - - AZ .Z AZ AZ AZ A. A. AZ AZ AZ AZ AZ
 84 - - AZ AZ AZ AZ AZ AZ AZ AZ AZ AZ AZ
 85 - - .. AZ .Z AZ AZ AZ A. . . .Z .Z .Z .Z

AV MONTH. FREQ X 10 10 10 10 10 10 7 10 10 10 10
 In 1985, Schrock saw one feeding a fledgling away from the nest on July 4 in the Logsdan area.

H-92. RUBY-CROWNED KINGLET
 YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De
 82 - - ? ? ? ? ? .. ? ? ? ? A. AZ
 83 10/08 05/06 A. AZ AZ AZ A. AZ AZ AZ
 84 10/02 05/06 AZ AZ AZ A. A. AZ AZ AZ
 85 09/27 04/05 .Z .. AZ A.Z ? .Z AZ

AV MONTH. FREQ 10 7 10 10 7 3 X 10 10
 AV First=10/2 (9/27-10/8) AV Last=4/26 (4/5-5/6)

H-93. WESTERN BLUEBIRD
 YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De
 82 11/06 11/06 ? ? ? ? ? .. ? ? ? ? A. .
 83 04/15 06/19 ? .. . A. . .Z
 84 04/22 04/24
 84 10/05 10/13Z A. . . .
 85 03/02 03/02
 85 09/21 10/13 .. . A.Z A. ? ..

AV MONTH. FREQ ? .. 3 7 .. 3 .. . 3 X + ..
 Schrock counted 10 on 13 October 1985.

H-94. TOWNSEND'S SOLITAIRE
 YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De
 84 05/01 05/01 A.
 AV MONTH. FREQ ? 3 ? ? ..
 One was found on a powerline beside a valley pasture.

H-95. SWAINSON'S THRUSH
 YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De
 82 - 09/13 ? ? ? ? ? AZ .Z .Z A. ? ? ..
 83 05/22 09/23 ?Z AZ AZ AZ AZ
 84 05/13 10/13 AZ AZ AZ AZ AZ A. . . .
 85 05/23 09/29Z AZ AZ .Z .Z ? ? ..

AV MONTH. FREQ ? 10 10 10 10 10 + ? ..
 AV First=5/19(5/13-5/23) AV Last=9/27(9/13-10/13)

H-96. HERMIT THRUSH
 YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De
 83 10/08 - ? A. . . .Z
 85 12/24 -
 85 04/20 04/20Z ? ? .Z

AV MONTH. FREQ ? .. . 3 + ? 5

H-97. AMERICAN ROBIN

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

AV MONTH. FREQ X 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10
 Schrock counted 18 on 8 February 1983, which may represent a spring influx.

H-98. VARIED THRUSH

| YR | First | Last | Ja | Fe | Mr | Ap | My | Jn | Jl | Ag | Sp | Oc | Nv | De |
|----|-------|-------|----|----|----|----|----|----|----|----|----|----|----|----|
| 82 | - | - | ? | ? | ? | ? | ? | .Z | ? | ? | ? | .Z | ? | AZ |
| 83 | 09/03 | 06/11 | ? | .Z | AZ | A. | .Z | A. | .. | .. | AZ | AZ | AZ | AZ |
| 84 | 09/23 | 07/20 | AZ | AZ | AZ | AZ | A. | A. | AZ | .. | .Z | AZ | AZ | AZ |
| 85 | 09/26 | 06/08 | .Z | AZ | AZ | AZ | .Z | A. | .. | .. | .Z | ? | .Z | A. |

AV MONTH. FREQ X 10 10 10 10 10 3 .. 10 10 10 10
 AV First=9/17 (9/3-9/26) AV Last=6/23 (6/8-7/20)

H-99. WRENTIT

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

AV MONTH. FREQ X 10 10 10 10 8 10 10 10 10 10 10

H-100. AMERICAN PIPIT

| YR | First | Last | Ja | Fe | Mr | Ap | My | Jn | Jl | Ag | Sp | Oc | Nv | De |
|----|-------|-------|----|----|----|----|----|----|----|----|----|----|----|----|
| 83 | 04/14 | 04/17 | | | | | | | | | | | | |
| 83 | 09/23 | 09/24 | ? | .. | .. | AZ | .. | .. | .. | .. | .Z | .. | .. | .. |
| 84 | - | - | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| 85 | 09/26 | 10/01 | .. | .. | .. | .. | .. | .. | .. | .. | .Z | A. | ? | .. |

AV MONTH. FREQ ? 3 7 + ? ..
 In 1983, Schrock counted 25 in a pasture near Logsdan on September 23 and 24.

H-101. CEDAR WAXWING

| YR | First | Last | Ja | Fe | Mr | Ap | My | Jn | Jl | Ag | Sp | Oc | Nv | De |
|----|-------|-------|----|----|----|----|----|----|----|----|----|----|----|----|
| 82 | - | 10/30 | ? | ? | ? | ? | ? | AZ | .Z | AZ | ? | .Z | ? | .. |
| 83 | 06/04 | 12/25 | ? | .. | .. | .. | .. | AZ | AZ | AZ | AZ | .Z | A. | .Z |
| 84 | 05/26 | 10/27 | .. | .. | .. | .. | .Z | A. | AZ | AZ | AZ | AZ | .. | .. |
| 85 | 05/23 | 10/01 | .. | .. | .. | .. | .Z | A. | AZ | AZ | .Z | A. | ? | .. |

AV MONTH. FREQ ? 7 10 10 10 10 10 + 3
 AV First=5/28 (5/23-6/4) AV Last=11/5(10/1-12/25)
 In 1983, a singleton was noted on December 25 by Schrock.

H-102. EUROPEAN STARLING

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

AV MONTH. FREQ 10 10 10 10 10 10 10 10 10 10 10 10

H-103. SOLITARY VIREO

| YR | First | Last | Ja | Fe | Mr | Ap | My | Jn | Jl | Ag | Sp | Oc | Nv | De |
|----|-------|-------|----|----|----|----|----|----|----|----|----|----|----|----|
| 84 | 05/06 | 05/06 | .. | .. | .. | .. | .. | A. | .. | .. | .. | .. | .. | .. |

AV MONTH. FREQ ? 3 ? ? ..

H-104. HUTTON'S VIREO

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

AV MONTH. FREQ ? 7 7 7 3 5 7 7 7 X 10 8

H-105. WARBLING VIREO

| YR | First | Last | Ja | Fe | Mr | Ap | My | Jn | Jl | Ag | Sp | Oc | Nv | De |
|----|-------|-------|----|----|----|----|----|----|----|----|----|----|----|----|
| 82 | - | - | ? | ? | ? | ? | ? | AZ | ? | ? | ? | ? | ? | .. |
| 83 | 05/12 | 09/03 | ? | .. | .. | .. | AZ | AZ | AZ | A. | A. | .. | .. | .. |
| 84 | 05/06 | 08/19 | .. | .. | .. | .. | AZ | AZ | A. | AZ | .. | .. | .. | .. |
| 85 | 05/01 | 09/18 | .. | .. | .. | .. | AZ | AZ | AZ | .. | .Z | ? | ? | .. |
| 86 | 05/04 | - | ? | ? | ? | ? | A. | ? | ? | ? | ? | ? | ? | .. |

AV MONTH. FREQ ? 10 10 10 7 7 ? ? ..
 AV First=5/6 (5/1-5/12) AV Last=9/3 (8/19-9/18)

H-106. ORANGE-CROWNED WARBLER

| YR | First | Last | Ja | Fe | Mr | Ap | My | Jn | Jl | Ag | Sp | Oc | Nv | De |
|----|-------|-------|----|----|----|----|----|----|----|----|----|----|----|----|
| 82 | - | - | ? | ? | ? | ? | ? | AZ | ? | ? | ? | ? | ? | .. |
| 83 | 04/13 | 07/10 | ? | .. | .. | .. | AZ | AZ | AZ | A. | .. | .. | .. | .. |
| 84 | 04/02 | 07/20 | .. | .. | .. | .. | AZ | AZ | AZ | AZ | .. | .. | .. | .. |
| 85 | 04/05 | 07/12 | .. | .. | .. | .. | AZ | AZ | AZ | A. | .. | .Z | ? | .. |
| 86 | 03/28 | - | ? | ? | .Z | ? | ? | ? | ? | ? | ? | ? | ? | .. |

AV MONTH. FREQ ? .. + 10 10 10 10 .. 3 ? ? ..
 AV First=4/4 (3/28-4/13) AV Last=7/14 (7/10-7/20)
 AV First=9/18 (9/18) AV Last=9/18 (9/18)

H-107. YELLOW WARBLER

| YR | First | Last | Ja | Fe | Mr | Ap | My | Jn | Jl | Ag | Sp | Oc | Nv | De |
|----|-------|-------|----|----|----|----|----|----|----|----|----|----|----|----|
| 84 | 06/09 | 06/09 | .. | .. | .. | .. | .. | A. | .. | .. | .. | .. | .. | .. |

AV MONTH. FREQ ? 3 ? ? ..

H-108. YELLOW-RUMPED WARBLER

| YR | First | Last | Ja | Fe | Mr | Ap | My | Jn | Jl | Ag | Sp | Oc | Nv | De |
|----|-------|-------|----|----|----|----|----|----|----|----|----|----|----|----|
| 83 | 03/16 | 05/01 | | | | | | | | | | | | |
| 83 | 09/24 | - | ? | .. | .Z | .Z | A. | .. | .. | .. | .Z | A. | A. | .Z |
| 84 | - | 05/20 | AZ | AZ | AZ | AZ | AZ | .. | .. | .. | .. | .. | .. | .. |
| 85 | - | 04/29 | .Z | .Z | AZ | AZ | .. | .. | .. | .. | .. | ? | ? | .. |

AV MONTH. FREQ X 7 10 10 7 3 + + 3
 AV Last=5/7 (4/29-5/20)

H-109. BLACK-THROATED GRAY WARBLER

| YR | First | Last | Ja | Fe | Mr | Ap | My | Jn | Jl | Ag | Sp | Oc | Nv | De |
|----|-------|-------|----|----|----|----|----|----|----|----|----|----|----|----|
| 82 | - | - | ? | ? | ? | ? | ? | AZ | .Z | .Z | ? | ? | ? | ? |
| 83 | 04/17 | 09/14 | ? | .. | .. | .Z | AZ | A. | AZ | AZ | A. | .. | .. | .. |
| 84 | 04/21 | 09/16 | .. | .. | .. | .Z | AZ | AZ | A. | .. | AZ | .. | .. | .. |
| 85 | 04/14 | 09/18 | .. | .. | .. | AZ | AZ | AZ | AZ | .. | .Z | ? | ? | ? |
| 86 | 03/29 | - | ? | ? | .Z | ? | ? | ? | ? | ? | ? | ? | ? | ? |

AV MONTH. FREQ ? .. + 10 10 10 10 3 10 ? ? ..
 AV First=4/15 (3/29-4/21) AV Last=9/16(9/14-9/18)

H-110. TOWNSEND'S WARBLER

| YR | First | Last | Ja | Fe | Mr | Ap | My | Jn | Jl | Ag | Sp | Oc | Nv | De |
|----|-------|-------|----|----|----|----|----|----|----|----|----|----|----|----|
| 83 | 08/13 | 09/03 | ? | .. | .. | .. | .. | .. | .. | AZ | A. | .. | .. | .. |
| 84 | 11/04 | 12/08 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | AZ | A. |
| 85 | 04/20 | 04/20 | .. | .. | .. | .Z | .. | .. | .. | .. | .. | ? | ? | ? |
| 86 | 03/25 | 03/25 | ? | ? | .Z | ? | ? | ? | ? | ? | ? | ? | ? | ? |

AV MONTH. FREQ ? .. + 3 3 3 ? + 3

H-111. HERMIT WARBLER

| YR | First | Last | Ja | Fe | Mr | Ap | My | Jn | Jl | Ag | Sp | Oc | Nv | De |
|----|-------|-------|----|----|----|----|----|----|----|----|----|----|----|----|
| 82 | - | - | ? | ? | ? | ? | ? | AZ | .Z | ? | ? | ? | ? | ? |
| 83 | 05/01 | 08/20 | ? | .. | .. | .. | .. | AZ | AZ | A. | AZ | .. | .. | .. |
| 84 | 05/14 | 08/13 | .. | .. | .. | AZ | AZ | A. | A. | .. | .. | .. | .. | .. |
| 85 | 04/29 | 07/18 | .. | .. | .. | .Z | AZ | AZ | AZ | .. | .. | ? | ? | ? |

AV MONTH. FREQ ? 3 10 10 10 7 .. ? ? ..
 AV First=5/5 (4/29-5/14) AV Last=8/7 (7/18-8/20)

H-112. MACGILLIVRAY'S WARBLER

| YR | First | Last | Ja | Fe | Mr | Ap | My | Jn | Jl | Ag | Sp | Oc | Nv | De |
|----|-------|-------|----|----|----|----|----|----|----|----|----|----|----|----|
| 82 | - | 08/12 | ? | ? | ? | ? | ? | ? | ? | A. | ? | ? | ? | ? |
| 83 | 05/22 | 07/31 | ? | .. | .. | .. | .Z | AZ | AZ | .. | A. | .. | .. | .. |
| 84 | 05/28 | 07/20 | .. | .. | .. | .. | .Z | A. | AZ | .. | .. | .. | .. | .. |
| 85 | 04/29 | 06/09 | .. | .. | .. | .Z | AZ | A. | .. | .. | .. | ? | ? | ? |
| 86 | 05/14 | - | ? | ? | ? | ? | A. | ? | ? | ? | ? | ? | ? | ? |

AV MONTH. FREQ ? 3 10 8 7 + 3 ? ? ..
 AV First=5/18 (4/29-5/28) AV Last=7/18 (6/9-8/12)
 AV First=9/3 (9/3) AV Last=9/3 (9/3)

H-113. COMMON YELLOWTHROAT

| YR | First | Last | Ja | Fe | Mr | Ap | My | Jn | Jl | Ag | Sp | Oc | Nv | De |
|----|-------|-------|----|----|----|----|----|----|----|----|----|----|----|----|
| 82 | - | - | ? | ? | ? | ? | ? | AZ | ? | ? | ? | ? | ? | ? |
| 83 | 04/24 | 08/25 | ? | .. | .. | .Z | .Z | A. | AZ | AZ | .. | .. | .. | .. |
| 84 | 04/13 | 09/15 | .. | .. | .. | AZ | AZ | AZ | A. | AZ | A. | .. | .. | .. |
| 85 | 04/04 | 09/27 | .. | .. | .. | AZ | .Z | AZ | A. | .Z | .Z | ? | ? | ? |

AV MONTH. FREQ ? 10 10 10 10 10 7 ? ? ..
 AV First=4/14 (4/4-4/24) AV Last=9/12 (8/25-9/27)

H-114. WILSON'S WARBLER

| YR | First | Last | Ja | Fe | Mr | Ap | My | Jn | Jl | Ag | Sp | Oc | Nv | De |
|----|-------|-------|----|----|----|----|----|----|----|----|----|----|----|----|
| 82 | - | 09/13 | ? | ? | ? | ? | ? | AZ | ? | ? | A. | ? | ? | ? |
| 83 | 04/17 | 09/20 | ? | .. | .. | .Z | AZ | AZ | AZ | AZ | AZ | .. | .. | .. |
| 84 | 04/17 | 09/16 | .. | .. | .. | .Z | AZ | AZ | AZ | AZ | AZ | .. | .. | .. |
| 85 | 04/20 | - | .. | .. | .. | .Z | AZ | AZ | A. | .. | .. | ? | ? | ? |
| 86 | 04/21 | - | ? | ? | ? | .Z | ? | ? | ? | ? | ? | ? | ? | ? |

AV MONTH. FREQ ? 10 10 10 10 7 7 ? ? ..
 AV First=4/19 (4/17-4/21) AV Last=9/16(9/13-9/20)

H-115. WESTERN TANAGER

| YR | First | Last | Ja | Fe | Mr | Ap | My | Jn | Jl | Ag | Sp | Oc | Nv | De |
|----|-------|-------|----|----|----|----|----|----|----|----|----|----|----|----|
| 83 | 05/29 | 09/23 | ? | .. | .. | .. | .Z | A. | AZ | AZ | AZ | .. | .. | .. |
| 84 | 05/19 | 09/16 | .. | .. | .. | .. | .Z | .Z | AZ | AZ | AZ | .. | .. | .. |

AV MONTH. FREQ ? 7 5 7 7 7 ? ? ..

H-116. BLACK-HEADED GROSBEAK

| YR | First | Last | Ja | Fe | Mr | Ap | My | Jn | Jl | Ag | Sp | Oc | Nv | De |
|----|-------|-------|----|----|----|----|----|----|----|----|----|----|----|----|
| 82 | - | - | ? | ? | ? | ? | ? | AZ | ? | ? | ? | ? | ? | ? |
| 83 | 05/29 | 08/20 | ? | .. | .. | .. | .Z | AZ | AZ | AZ | .. | .. | .. | .. |
| 84 | 05/14 | 09/03 | .. | .. | .. | .. | AZ | AZ | AZ | AZ | A. | .. | .. | .. |
| 85 | 05/07 | 08/22 | .. | .. | .. | .. | AZ | AZ | A. | AZ | .. | ? | ? | ? |

AV MONTH. FREQ ? 10 10 10 10 3 ? ? ..
 AV First=5/17 (5/7-5/29) AV Last=8/25 (8/20-9/3)

H-117. RUFIOUS-SIDED TOWHEE

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

AV MONTH. FREQ 10 7 7 10 7 8 7 7 7 10 10 10

H-118. VESPER SPARROW

| YR | First | Last | Ja | Fe | Mr | Ap | My | Jn | Jl | Ag | Sp | Oc | Nv | De |
|----|-------|-------|----|----|----|----|----|----|----|----|----|----|----|----|
| 83 | 06/05 | 06/05 | ? | .. | .. | .. | .. | A. | .. | .. | .. | .. | .. | .. |
| 85 | 04/28 | 04/28 | .. | .. | .. | .Z | .. | .. | .. | .. | .. | ? | ? | ? |

AV MONTH. FREQ ? 3 .. 3 ? ? ..

UNCONFIRMED.--Schrock noted one in the Logsdan area on 5 June 1983 (June 1983 Sandpiper [publication of Yaquina Birders & Naturalists]); in his letter that I received on 28 October 1993, Floyd wrote that he was very close to this bird and saw a distinct eye ring. Floyd does not have any notes about the 28 April 1985 record that was listed in the May 1985 Sandpiper.

H-119. SAVANNAH SPARROW

| YR | First | Last | Ja | Fe | Mr | Ap | My | Jn | Jl | Ag | Sp | Oc | Nv | De |
|----|-------|-------|----|----|----|----|----|----|----|----|----|----|----|----|
| 82 | - | - | ? | ? | ? | ? | ? | AZ | ? | ? | ? | ? | ? | ? |
| 83 | 04/13 | 07/31 | ? | .. | .. | A. | AZ | AZ | AZ | .. | .. | .. | .. | .. |
| 84 | 04/24 | 08/13 | .. | .. | .. | .Z | AZ | AZ | AZ | A. | .. | .. | .. | .. |
| 85 | 04/03 | 08/18 | .. | .. | .. | AZ | AZ | AZ | AZ | AZ | .. | ? | ? | ? |

AV MONTH. FREQ ? 10 10 10 10 7 .. ? ? ..
 AV First=4/13 (4/3-4/24) AV Last=8/10 (7/31-8/18)

H-120. FOX SPARROW

| YR | First | Last | Ja | Fe | Mr | Ap | My | Jn | Jl | Ag | Sp | Oc | Nv | De |
|----|-------|-------|----|----|----|----|----|----|----|----|----|----|----|----|
| 82 | - | - | ? | ? | ? | ? | ? | ? | ? | ? | ? | .Z | AZ | AZ |
| 83 | 09/13 | 04/13 | .Z | AZ | AZ | A. | .. | .. | .. | .. | AZ | AZ | AZ | AZ |
| 84 | 09/23 | 04/13 | AZ | AZ | AZ | A. | .. | .. | .. | .. | .Z | AZ | AZ | AZ |
| 85 | 09/21 | 04/05 | .Z | AZ | .Z | A. | .. | .. | .. | .. | .Z | A. | .Z | AZ |

AV MONTH. FREQ 10 10 10 10 10 10 10 10
 AV First=9/19 (9/13-9/23) AV Last=4/10 (4/5-4/13)

H-121. SONG SPARROW

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

AV MONTH. FREQ 10 10 10 10 10 10 10 10 10 10 10

H-122. LINCOLN'S SPARROW

| YR | First | Last | Ja | Fe | Mr | Ap | My | Jn | Jl | Ag | Sp | Oc | Nv | De |
|----|-------|-------|----|----|----|----|----|----|----|----|----|----|----|----|
| 83 | 02/06 | 02/06 | | | | | | | | | | | | |
| 83 | 05/06 | 05/06 | | | | | | | | | | | | |
| 83 | 09/13 | 09/13 | | | | | | | | | | | | |
| 83 | 11/24 | 11/24 | ? | A. | .. | .. | A. | .. | .. | .. | A. | .. | .Z | .. |
| 84 | 05/06 | 05/06 | .. | .. | .. | .. | A. | .. | .. | .. | .. | .. | .. | .. |

AV MONTH. FREQ ? 3 7 3 ? + ..

H-123. GOLDEN-CROWNED SPARROW

| YR | First | Last | Ja | Fe | Mr | Ap | My | Jn | Jl | Ag | Sp | Oc | Nv | De |
|----|-------|-------|----|----|----|----|----|----|----|----|----|----|----|----|
| 83 | 04/24 | 05/01 | ? | .. | .. | .Z | A. | .. | .. | .. | .. | .. | .. | .. |
| 84 | 04/21 | 05/06 | | | | | | | | | | | | |
| 84 | 11/30 | 12/01 | .. | .. | .. | .Z | A. | .. | .. | .. | .. | .. | .Z | A. |
| 85 | 04/20 | 04/20 | .. | .. | .. | .Z | .. | .. | .. | .. | .. | .. | ? | ? |

AV MONTH. FREQ ? 10 7 ? + 3
 AV First=4/22 (4/20-4/24) AV Last=4/29 (4/20-5/11)

H-124. WHITE-CROWNED SPARROW

| YR | First | Last | Ja | Fe | Mr | Ap | My | Jn | Jl | Ag | Sp | Oc | Nv | De |
|----|-------|-------|----|----|----|----|----|----|----|----|----|----|----|----|
| 82 | - | - | ? | ? | ? | ? | ? | AZ | .Z | A. | ? | ? | ? | .. |
| 83 | 04/03 | 09/24 | ? | .. | .. | AZ | AZ | AZ | AZ | AZ | AZ | .. | .. | .. |
| 84 | 04/03 | 12/01 | .. | .. | .. | AZ | AZ | AZ | AZ | AZ | A. | .Z | A. | .. |
| 85 | 03/02 | 10/05 | .. | .. | A. | AZ | AZ | AZ | AZ | AZ | .Z | A. | ? | .. |

AV MONTH. FREQ ? .. 3 10 10 10 10 10 X + 3
 AV First=3/23 (3/2-4/3) AV Last=10/21 (9/24-12/1)

H-125. DARK-EYED JUNCO

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

AV MONTH. FREQ 10 10 10 10 10 10 3 10 10 10 10

Schrock noted that the day after a snowfall on 8 November 1985 that juncos were very numerous in the Logsdan Valley (November 1985 Sandpiper).

H-126. RED-WINGED BLACKBIRD

| YR | First | Last | Ja | Fe | Mr | Ap | My | Jn | Jl | Ag | Sp | Oc | Nv | De |
|----|-------|-------|----|----|----|----|----|----|----|----|----|----|----|----|
| 82 | 11/29 | 06/30 | ? | ? | ? | ? | ? | AZ | ? | ? | ? | ? | .Z | AZ |
| 83 | 11/24 | - | | | | | | | | | | | | |
| 83 | 05/29 | 07/02 | ? | .. | .. | .. | .Z | AZ | A. | .. | .. | .. | .Z | .. |
| 84 | 05/01 | 06/11 | | | | | | | | | | | | |
| 84 | 09/23 | 09/23 | .. | .. | .. | .. | AZ | A. | .. | .. | .Z | .. | .. | .. |
| 85 | 05/07 | 07/04 | .. | .. | .. | .. | AZ | AZ | A. | .. | .. | ? | ? | .. |

AV MONTH. FREQ ? 10 10 7 .. 3 ? X 3
 AV First=5/12 (5/1-5/29)

H-127. WESTERN MEADOWLARK

| YR | First | Last | Ja | Fe | Mr | Ap | My | Jn | Jl | Ag | Sp | Oc | Nv | De |
|----|-------|-------|----|----|----|----|----|----|----|----|----|----|----|----|
| 83 | 03/17 | 03/17 | ? | .. | .Z | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| 84 | 05/26 | 06/09 | .. | .. | .. | .. | .Z | A. | .. | .. | .. | .. | .. | .. |
| 85 | 12/25 | 12/25 | .. | .. | .. | .. | .. | .. | .. | .. | .. | ? | ? | .Z |

AV MONTH. FREQ ? .. 3 .. 3 3 ? ? 3
 In 1985, four were seen on December 25.

H-128. BREWER'S BLACKBIRD

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

AV MONTH. FREQ ? 3 3 7 .. 3 3 3 10 X + 3
 In 1983, seven were recorded on August 20, but only one was noted on December 25.

H-129. BROWN-HEADED COWBIRD

| YR | First | Last | Ja | Fe | Mr | Ap | My | Jn | Jl | Ag | Sp | Oc | Nv | De |
|----|-------|-------|----|----|----|----|----|----|----|----|----|----|----|----|
| 82 | - | - | ? | ? | ? | ? | ? | AZ | ? | ? | ? | ? | ? | .. |
| 83 | 05/12 | 07/17 | ? | .. | .. | .. | AZ | A. | AZ | .. | .. | .. | .. | .. |
| 84 | 04/21 | 08/26 | .. | .. | .. | .Z | AZ | AZ | A. | AZ | .. | .. | .. | .. |
| 85 | 04/20 | 07/18 | .. | .. | .. | .Z | AZ | AZ | AZ | .. | .. | ? | ? | .. |
| 86 | 04/21 | - | ? | ? | ? | .Z | ? | ? | ? | ? | ? | ? | ? | .. |

AV MONTH. FREQ ? 7 10 10 10 3 .. ? ? ..
 AV First=4/26 (4/20-5/12) AV Last=7/31 (7/17-8/26)

H-130. PINE GROSBEAK

| YR | First | Last | Ja | Fe | Mr | Ap | My | Jn | Jl | Ag | Sp | Oc | Nv | De |
|----|-------|-------|----|----|----|----|----|----|----|----|----|----|----|----|
| 84 | 08/19 | 08/19 | .. | .. | .. | .. | .. | .. | .. | .Z | .. | .. | .. | .. |

AV MONTH. FREQ ? 3 .. ? ? ..

UNCONFIRMED.--Schrock saw two near Logsdan. They were in a cascara tree about 50-100 ft (15-30 m) away. One had lots of yellow around the head; its round yellow head reminded him of a parakeet. They had large dark bills, were about the size of Evening Grosbeaks, and were larger than Red Crossbills.

H-131. PURPLE FINCH
 YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De
 82 - - ? ? ? ? ? AZ ? .Z ? .Z ? ..
 83 - - ? .Z AZ AZ AZ AZ AZ AZ AZ AZ .. AZ
 84 - - .Z AZ .Z AZ AZ AZ AZ AZ AZ AZ AZ
 85 - - .Z AZ .. AZ AZ AZ AZ .. .Z A. A. AZ

AV MONTH. FREQ X 10 7 10 10 10 10 7 10 10 X 8

H-132. HOUSE FINCH
 YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De
 84 12/08 12/25 AZ
 85 05/23 07/04
 85 11/16 12/24Z AZ A. . . . ? .Z .Z

AV MONTH. FREQ ? 3 3 3 .. . ? + 5

H-133. RED CROSSBILL
 YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De
 83 10/15 10/15 ? A.
 84 07/15 - AZ AZ AZ AZ AZ AZ
 85 - 06/01 .. .Z A. A. .Z A. . . . ? ? ..

AV MONTH. FREQ ? 3 3 3 3 3 3 3 3 X + 3

H-134. PINE SISKIN
 YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De
 82 - - ? ? ? ? ? .Z .Z ? ? ? ? ..
 83 07/10 - ? AZ AZ AZ AZ A. .Z
 84 05/06 02/25 .. AZ AZ AZ AZ AZ AZ AZ AZ
 85 04/04 08/22 AZ AZ AZ A. .Z .. ? ? ..

AV MONTH. FREQ ? 3 .. 3 7 8 10 10 7 X X 5

In 1983, a flock of 30 was seen by Schrock on December 25.

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H-135. AMERICAN GOLDFINCH
 YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De
 82 - 10/30 ? ? ? ? ? AZ .Z .Z ? .Z ? ..
 83 05/12 10/08 ? AZ AZ AZ AZ AZ A.
 84 05/06 10/21 AZ AZ AZ AZ AZ AZ
 85 04/28 10/05Z AZ AZ AZ AZ .Z A. ? ..

AV MONTH. FREQ ? .. . 3 10 10 10 10 10 10 ? ..
 AV First=5/5 (4/28-5/12) AV Last=10/16(10/5-10/30)

H-136. EVENING GROSBEAK
 YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De
 82 - - ? ? ? ? ? A. ? ? ? ? ? ..
 83 - - ? AZ .Z .. .Z AZ AZ AZ AZ ..
 84 - - .Z AZ AZ A. .Z AZ AZ AZ A. A.
 85 - - A. .. A. .Z A. AZ .Z ? ? ..
 86 - - ? ? .Z ? ? ? ? ? ? ? ? ?

AV MONTH. FREQ + 3 3 3 10 8 10 10 10 X X 3

H-137. HOUSE SPARROW
 YR First Last Ja Fe Mr Ap My Jn Jl Ag Sp Oc Nv De
 83 05/12 09/24 ? A. A. AZ .. .Z
 84 02/04 10/14 .. A. A. AZ AZ A. A. .. .Z A.
 85 05/07 08/13 AZ A. AZ A. .. ? ? ..

AV MONTH. FREQ .. 3 3 3 10 8 10 3 7 + ? ..
 AV Last=10/16 (8/13-10/14)