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1988 (Thirty-First) Fall Occurrence Report

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1988 (THIRTY-FIRST) FALL OCCURRENCE REPORT

Two hundred eighty-two species were reported from fourteen "full time" locations, plus fourteen "spot check" locations, which included forty-nine counties. The figures for 1987 were 296, plus two possibilities, from fourteen "full time" and four "spot check" locations; 1986 293 and one possibility from thirteen "full time" and four "spot check" locations; and 1985 283 and one possibility from eleven "full time" and eight "spot check" locations.

The information is presented in a rough west (left) to east (right) order, with locations of about the same latitude listed with the northernmost first. Two dates indicate the first and last records for the period.

The symbols used in the "full time" columns are :

Jl, Au, Sp, Ot, No, and Dm for the months.

NR for species reported as probably present, but for which no records were made.

P to indicate a species which is present all of the year, although the same individuals may not be present during the whole year, and the numbers may vary greatly.

(p) for a species probably present all year, for which records didn't cover the whole period.

S - to indicate a species which was present before 1 July and which was reported in the Spring Occurrence Report.

S - W to indicate a species which was reported before 1 July and was still present after 31 December. It is similar to P, but the pattern is not always true.

- W to indicate a species which remained after 31 December (but the lack of such an indication does not necessarily mean the species did not remain).

x when the exact date was not provided.

* to indicate a comment in the text.

o to indicate that there were no records between the dates given, and that information was supplied with the report form.

The symbols used in the "spot check" columns are given for each column, and are specialized to each column. In most cases these dates are from infrequent visits to the area (though in a few cases they are fairly frequent), so that the whole half year isn't covered. The average reader can just take the symbols in these columns as indications that the species was present; those who want to know when and in which county the record was made can decode the column.

The number of species reported, contributors (to the extent known), and special comments (by counties, and then by columns) are:

Adams, see Howard.

--text continued on page 27

	Scotts Bluff	Dawes	Box Butte	A B	McPh	Lincoln	C D E F G	Howard Hall	H Polk	I Cedar	Pierce	J K L	Da-kota	Lan-caster	M Wash.	Doug. N Sarpy
Common Loon	-	-	-	-	-	-	- - - - - b i	-	-	- Ot 30 No 19	-	-	-	No 13 No 21	-	-
Pied-billed Grebe	Jl 7 Ot 14	-	-	-	-	-	- Au 10 - K - - h Sp 10 i i	-	Au 27 h Ot 16 - No 6 i	- No 1 S - No 20 Jl 23 g	- b - - - Jl 9 J1 19 -	-	-	- Ot 17 Sp 3 - No 20 No 14	-	-
Horned Grebe	Ot 10	-	-	-	-	-	- - - - -	-	- *	-	-	-	-	- Ot 29 - No 22	-	No 14 - No 23
Red-n. Grebe	-	-	-	-	-	-	- - - - -	-	-	-	-	-	-	-	-	No 17 -
Eared Grebe	Jl 7 Ot 14	-	-	-	-	-	- - - - -	-	- *	-	- Ot 16 -	-	-	-	-	-
Western Grebe	Jl 7 No 25	-	-	-	-	-	- - - - - j - i	-	- Ot 30 -	- Ot 30 - No 19	- b - - -	-	-	- Ot 29 -	-	-
American White Pelican	Jl 26 Au 24	-	-	-	-	-	- - - - -	-	- Sp 8 Sp 26 - Ot 9 Ot 2	-	- Ot 28 Sp 25 - No 6 Ot 16	-	-	- S - - No 5	- Ot 17 Sp 13 - No 20 No 3	-
Double-crested Cormorant	Jl 7 Ot 14	-	-	-	-	-	- Au 10 - d j - e Sp 10 p w M	-	- Au 17 Au 27 h No 20 - No 6 i	- No 1 S - No 6 g	- b - e Sp 25 No 23	-	-	- Ot 17 Au 20 - Dm 3 No 15	-	-
American Bittern	-	-	-	-	-	-	- Au 11 - C - -	-	- S - Au 27 - Au 28	-	-	-	-	- Sp 13 -	-	-
Great Blue Heron	S - Dm 17	-	NR	b a J1 e	-	-	- Au 12 - K r - b Dm 17 S h No 16 No 6	-	- Au 27 - J1 10 - No 6	- J1 4 S - No 17 Sp 25 b	- a b c d Ot 1	-	-	- J1 20 S - Dm 3 No 23 f	-	-
Great Egret	-	-	-	-	-	-	- - - j - w	-	- J1 30 - Ot 23	-	- S - - J1 25	-	-	- J1 21 J1 13 - Au 20 Ot 19	-	- J1 20 J1 30 - Sp 29
Snowy Egret	-	-	-	-	-	-	- - - f - w	-	- J1 9 - Au 15	-	-	-	-	- J1 20 - Sp 19	-	- Au 13 -
Little Blue Heron	-	-	-	-	-	-	- - - m - t	-	- J1 29 - Au 1	-	-	-	-	-	-	-
Cattle Egret	-	-	-	-	-	-	- - - q - w	-	- Sp 10 - Ot 28	-	-	-	-	-	-	-
Green-backed Heron	-	-	-	-	-	-	- - - - -	-	- S -	-	-	-	-	-	-	-
Black-crowned Night-Heron	Au 10 Au 24	-	-	-	-	-	- Au 10 - m - w	-	- J1 4 - Sp 8	-	-	-	-	- Au 28 -	-	- Au 10 - Sp 5

	Scotts Bluff	Dawes	Box Butte	A B McPh	Lincoln	C D E F G	Howard Hall	H Knox	H Polk	I Cedar	Pierce	J K L	Da-kota	Lancaster	M Wash.	Doug. N Sarpy
American Wigeon	Au 10	-	-	*	-	-	-	Au 27	-	-	No 1	-	b	No 24 J1 21	-	Ot 17 Ot 3
	Dm 28	-	-	-	-	-	No 25 Au 27	No 19	-	-	Dm 31	-	-	Dm 17 Dm 19	Dm 27 Dm 13	-
	Sp 30	-	-	*	-	-	No 30 No 19	-	-	-	No 1 Ot 29	b	-	Ot 29	-	Ot 24
Canvasback	No 10	-	-	-	-	-	-	-	-	-	Dm 22	-	-	No 13	-	Dm 13
Redhead	Au 10	-	-	*	-	-	-	Ot 13 Ot 25	-	-	No 1 Ot 26	b o	-	No 10 Ot 22	-	Ot 24
	Dm 5	-	-	-	-	-	No 19	-	-	-	Dm 9 No 10	-	-	Dm 17 No 18	-	No 30
Ring-necked Duck	Sp 9	-	-	*	-	-	-	Sp 26	-	-	No 1 Ot 22	-	-	No 10 Dm 27	-	Dm 27 Ot 24
	No 25	-	-	-	-	-	-	No 19	-	-	Dm 31	-	-	Dm 17	-	Dm 13
Lesser Scaup	Sp 9	-	-	*	-	-	-	No 6	-	-	No 1 Ot 26	- o	-	No 10 Ot 16	-	Ot 17 Ot 24
	No 10	-	-	-	-	-	-	No 19	-	-	Dm 31 No 17	-	-	Dm 17 Dm 26	Dm 26 No 30	-
Oldsquaw	-	-	-	-	-	-	-	-	-	-	No 17	-	-	-	-	-
										Dm 5						
Black Scoter	-	-	-	-	-	-	-	-	-	-	-	-	-	No 22	-	No 13
																No 14
White-winged Scoter	-	-	-	-	-	-	-	-	-	-	-	-	-	No 23	-	No 11 Ot 29
														Dm 3		
Common Goldeneye	Ot 13	-	-	-	-	-	-	Ot 25	-	-	No 1 Ot 29	-	-	Dm 17 No 18	-	No 20 No 14
	Dm 28	-	-	-	-	-	-	No 19	-	-	Dm 31	-	-	- W Dm 30	Dm 27 Dm 13	
Barrow's Golden.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Dm 7	-
Bufflehead	Ot 14	-	-	-	-	-	-	Ot 25	-	-	No 1 Ot 26	-	-	No 13	-	Ot 24
	No 25	-	-	-	-	-	-	No 19	-	-	Dm 31 No 17	-	-	No 23	-	No 30
Hooded Merganser	Ot 29	-	-	-	-	-	-	No 19	-	-	No 17	-	-	No 2	Dm 3 No 9	-
	No 25	-	-	-	-	-	-	-	-	-	Dm 22	-	-	No 21	Dm 26 No 23	
Common Merganser	J1 26	-	-	-	-	-	-	No 19	-	-	No 17 No 20	-	-	No 10 No 2	Dm 3 No 17	-
	Dm 20	-	-	-	-	-	-	-	-	-	Dm 31	-	-	- W Dm 30	Dm 27 Dm 13	
Red-br. Merg.	-	-	-	-	-	-	-	-	-	-	No 19	-	-	-	-	No 13
Ruddy Duck	J1 7	-	-	-	-	-	-	Ot 25	-	-	Ot 26	-	-	Ot 21	-	Ot 17 Ot 24
	No 25	-	-	-	-	-	-	-	-	-	No 20	-	-	No 23	-	No 14
Turkey Vulture	J1 8	S -	NR	- a -	Ot 5	a I y a -	S -	-	-	-	-	-	-	Sp 18	S -	Sp 25 S -
	Sp 28	Sp 5				e b	Sp 18							Ot 13		Ot 2 c

[illegible]

Killdeer	S - Ot 1	-	Au 7 b - Sp 18 d	-	Au 27 Sp 20	Au 10 a a z c J Sp 20 h r e L	SA- No 12 Ot 2	S - Sp 13 c	S - Ot 24	a J 1 2 S - Ot 26 b G d	S - Au 20	a c S - Dm 18 b	S - Ot 17	a S - Ot 30 d
American Avocet	S - J 1 7	-	J 1 3 -	-	-	-	S - J 1 16	Sp 9 -	-	Sp 25 -	-	-	-	-
Greater Yellowlegs	-	-	b b -	-	Au 17 -	1 d - b J 1 4	Au 27 -	J 1 31 -	Au 29 S -	-	-	J 1 11 -	-	Ot 16 - No 18
Yellowlegs sp.	-	-	-	-	-	x	Au 21 Sp 9	-	Ot 29	-	-	-	-	-
Lesser Yellowlegs	J 1 26 Ot 1	-	b - c	-	Au 11 -	b - b u	S - Au 17	Au 28 -	-	J 1 12 -	-	Au 14 J 1 8 -	-	Au 7 - Ot 16
Solitary Sandpiper	-	-	-	-	Au 10 -	d - d -	Au 3 -	-	Au 6 -	-	-	Au 20 J 1 8 -	-	Au 4 - Sp 22
Willet	-	-	NR	-	-	d - b	-	-	-	-	-	Sp 24 -	-	-
Spotted Sandpiper	-	-	-	-	Au 10 -	a -	J 1 1 Au 28 -	J 1 31 -	-	S - J 1 25	a b -	J 1 23 -	J 1 15 J 1 24 -	-
Upland Sandpiper	-	-	NR	-	-	-	S - Au 21	a S - Au 4	a J 1 2 S - J 1 30 b	-	b d	Au 4 a -	Au 17 -	-
Long-billed Curlew	-	-	NR	-	S - Au x	-	-	-	-	-	-	-	-	-
Sanderling	-	-	-	-	Au 10 -	-	-	-	-	-	a -	Au 24 -	-	-
Semipalmated Sandpiper	J 1 7 Au 24	-	-	-	-	d - b J 1 10	-	-	-	J 1 12 b -	-	J 1 20 -	-	Au 11 - Sp 4
Western Sandpiper	-	-	-	-	Au 10 -	d - d -	J 1 4 -	-	-	-	-	-	-	-
Least Sandpiper	-	-	-	-	-	q - b J 1 9	-	-	-	J 1 12 b -	-	J 1 21 -	-	Au 7 - Ot 16
White-rumped Sandpiper	-	-	-	-	-	-	S - J 1 4	-	-	-	-	J 1 20 -	-	-
Baird's Sandpiper	-	-	c -	-	Au 10 d -	k - b q	-	-	-	Sp 3 b -	-	Au 2 -	-	Au 20 - Ot 16

[illegible]

Sedge Wren	-	-	-	-	-	-	-	Jl 26 Ot 18	Jl 12 e Sp 15	-	-	-	-	-	j1 15	j1 29 - Au 18	-	j1 18 - Ot 2
Marsh Wren	-	-	-	-	Au 19	- q - c	-	Au 24 h Sp 9	-	-	-	-	j1 23 a b	-	-	Sp 7 - Sp 23	-	j1 30 - No 23
Golden-crowned Kinglet	Ot 10 Dm 17	- NR	-	No 30 Dm 30	-	- - - -	-	Ot 31 - Dm 19	- Ot 30	- g -	Dm 17	Ot 4 -	-	-	-	Dm 18	-	Ot 4 - Dm 29
Ruby-crowned Kinglet	-	- NR	-	-	-	- h -	Ot 11 Sp 30 h i	Sp 11 - Ot 16	-	e -	Sp 20 Au 20 -	Ot 17 Sp 19 -	-	-	-	Ot 30	-	No 3
Blue-gray Gnatcatcher	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Au 7 Ji 8 Au 13
Eastern Bluebird	Jl 16 S - Ot 10 Sp 20	- NR	-	Au 8 Au 1	- c i	S - Dm 24 No 13 i	Au 29 h J1 17 - w	-	-	a - d	-	-	-	-	S -	No 20	-	S - f Dm 23
Mountain Bluebird	Jl 9 S - Ot 10 Sp 8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Townsend's Solitaire	Ot 1 - Dm 17	- NR	-	No 19 Dm 23	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Veery	-	-	-	-	-	-	-	Jl 8 Sp 10	-	-	-	-	-	-	-	-	-	-
Swainson's Thrush	Ot 1 - No 10	- NR	-	-	-	-	-	-	-	-	-	-	-	-	-	Au 28 - Ot 16	-	Au j1 - Sp 17
Hermit Thrush	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No 10	-	-
Wood Thrush	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	a S - Jl 31 Ot 1
American Robin	P S - Dm 15 Ot 2 c	- Au 7 b - S - Ot 24	- Au 10 c Dm 17 d R z	A SA- S No 10	- Dy A Z	- B S - W Ot 31	- a j1 1	S - Ot 16 C ed	- P	-	-	-	-	-	S - a S - Dm 30 b Dm 18 -	w	d	-
Gray Catbird	-	- NR	a - Sp 3 Ot 18	Sp 13 - G - a c	- g c	S - Sp 23 Sp 15	- Sp 11	- J1 2	-	- ad	S - J1 15 Sp 25 b	-	-	-	S - a S - Jl 20	No 12 c	-	-
Northern Mockingbird	-	- NR	d -	No 2	-	- J1 2	- Au 6	-	-	-	-	-	-	-	Ot 21	-	-	-
Sage Thrasher	Sp* 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Brown Thrasher	Jl 7 S - Jl 16 Au 4	- NR	- S - Sp 18	Au 25 d J - c a	- g	S - Sp 13 Sp 15	- Au 6	-	-	b d	S - g J1 15 Ot 12	-	-	-	a S -	-	-	S - c

[illegible]

[illegible]

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Lemburg's barn 16 October, and one was seen around the yard off and on until 10 December, when two were at the feeder. They were not seen since. Mr. Lemburg commented that many of the ponds were dry, and so he missed some birds he normally sees.

Jefferson, see Column L.

Johnson, see Column N.

Kearney, see Column F.

Keya Paha, see Column D.

Knox, Creighton, 118 species, Mark A. Brogie, reporter, Ed M. Brogie, Ellen L. Brogie.

Lancaster, Lincoln, 200 species, Larry Einemann, Norma Johnson, Karla and Paul Kaufman, Thomas E. Labedz, Mabel Ott, Babs and Loren Padelford, reporters, Mark A. Brogie, B. J. Rose. A late Franklin's Gull was reported 26 December. A Canada Warbler was found dead on 28 August. This was not the one Mrs. Ott banded on 22 August. A late White-crowned Sparrow was recorded 18 December,

Lincoln, North Platte, 113 species, Mrs. Howard Wyman, reporter, Mark A. Brogie.

Loup, see Column D.

Madison, see Column J.

McPherson, Tryon, 45 species, Oona S. Bassett, reporter. Mrs. Bassett spends the winter in Arizona, and the reports end in late October. The Titmice were new to her in this area.

Merrick, see Polk.

Nance, see Column H.

Nuckolls, see Column I.

Pawnee, see Column N.

Perkins, see Column A.

Phelps, see Column E.

Pierce, 106 species, Mark A. Brogie, reporter, Ed M. Brogie, Ellen L. Brogie, Larry Roper. The 31 October Merlin was an injured bird found near Osmond, which was turned over to Wayne Mollhoff and transported to the Raptor Recovery Center, Lincoln.

Platte, see Column J.

Polk (and parts of Hamilton, Merrick, and York), Polk, 176 species, plus an unresolved Horned/Eared Grebe and a Dowitcher sp., Norris Alfred, reporter, Paul Bedell, Mark A. Brogie, Larry Einemann, Wm. Lemburg, Lennis Lind, Lee, Shirley, and Jim Morris. The Horned/Eared Grebe was seen 30 October. Wood Ducks were also seen 16 and 23 October. Two Mississippi Kites were seen by Mr. Einemann in a tree at the Lincoln Creek Parkway, Aurora, during a North American Prairie Conference field trip. Another bird in the same tree, at first thought to be an immature Kite, turned out to be an immature Broad-winged Hawk when the three birds flew. The October Broad-winged Hawk was the first one Lee Morris has seen in several years. On the Barn-Owl Mr. Morris wrote: "I was harvesting corn, and was surprised to see something dangling from the top of a cornstalk ahead of me. The stalk could not support so much weight, and broke. The object flew up and landed a short distance ahead, and I could see that it was a Common Barn-Owl. It continued to fly up and land ahead of the combine several more times before moving off to one side. I have never seen a Barn-Owl in this immediate vicinity before." He also noted that he had flushed a Woodcock two days before, while harvesting corn, and that he had been able to get within a few feet of it on foot before it flushed again. He saw a lot more Pheasants and Bobwhites during harvest this year than he had for several years. Mr. Einemann reported a Hairy Woodpecker 9 August at the Lincoln Creek Parkway. There were no records of the Eastern Phoebe from 17 July to 11 September. A late Rough-winged Swallow was recorded 18 September, and the Yellow-headed Blackbird was not recorded from 17 July until 11 September.

Red Willow, see Column C.

Rock, see Column D.

Saline, see Column L.

Sarpy, see Douglas.

Scotts Bluff, Gering, 128 species, Alice Kenitz, reporter, Lydia Bolz, Joyce Brashear, Helen Hughson, Felix Koenig, Lucy Koenig, Bob Kruger, Doug G. Thomas, Lynne Vacanti, Nora Mae Vance. The Semipalmated Sandpipers were reported from the North Platte NWR by Refuge personnel. The Brown Creeper and

Evening Grosbeak dates were not reported to Mrs. Kenitz. She observed the Sage Thrasher in fair light conditions at about 6 PM, using 8.5 x 44 binoculars at about 50 feet. The back was gray brown, and the tail seemed longer than that of a thrush, but shorter than that of a Brown Thrasher.

Seward, see Column L.

Stanton, see Column K.

Thayer, see Column I.

Valley, see Column G.

Washington, DeSoto NWR and Neale Woods, 117 species, and the probability that some of the Meadowlark sp. were Westerns, Tanya Bray, Alan G. Grenon, reporters, Mark A. Brogie, Ruth C. Green, Joel Jorgensen, Jim Kovanda, and DeSoto notes from *Iowa Bird Life*. The Red-breasted Nuthatch was reported at the feeders at the NWR headquarters, but no specific dates were given (November/December).

Wayne, see Column K.

Webster, see Column F.

Wheeler, see Column G.

York, see Polk.

Column A, Chase(C), Dundy(D), Perkins(P), 44 species, Mark A. Brogie, Iola Pennington. a = 7/2(D), b = 7/26 and 27(D), by Mrs. Pennington; c = 7/30(P), d = 7/30(C), e = 7/30(D) by Mr. Brogie; A = c, d, + e, B = c + d, C = c + e, D = d + e.

Column B, Cherry, 24 species, a = 9/18 by Mark A. Brogie, b = about 10/10 by Ruth C. Green. Mrs. Green wrote that between Valentine and Thedford "every duck species was represented", but only those specifically mentioned are coded.

Column C, Frontier(F), Hayes(A), Hitchcock(I), Red Willow(R), 33 species, Mark A. Brogie. a = 7/29(R), b = 7/30(A), c = 7/30(F), d = 7/30(I), e = 7/30(R), A = b, c, d, + e, B = b, c, + d, C = d + e, D = b, c, + e, E = c + d.

Column D, Brown(B), Custer(C), Keya Paha(K), Loup(L), Rock(R), 88 species, Mark A. Brogie. a = 7/24(K), b = 7/24(B), c = 7/24(R), d = 9/5(L), e = 9/5(C), f = 9/17 and 18(K), g = 9/17 and 18(B), h = 9/17 and 18(R), i = 10/9(L), A = a, b, c, d, + e, B = a, b, c, + d, C = a, c, + d, D = a, b, + c, E = a, c, + e, F = a + b, G = a + d, H = b, c, + e, I = b + d, J = b + c, K = c + d, N = f, g, h, + i, O = f, g, + h, P = f + g + i, R = e + g, S = e + i, T = e + h, U = f + g, V = g + i.

Column E, Buffalo, Dawson, Gosper, Phelps, 69 species, Paul Bedell, Mark A. Brogie. Mr. Bedell did not specify counties on his report, so no distinction is made in this column. a = 7/1, b = 7/4, c = 7/5, d = 7/6, e = 7/8, f = 7/9, g = 7/11, h = 7/15, i = 7/18, j = 7/21, k = 7/26, l = 7/27, m = 7/28, n = 8/1, o = 8/3, p = 8/4, q = 8/5, r = 8/9, s = 8/11, t = 8/15, u = 8/17, v = 8/18, w = 8/19, x = 8/22, all by Mr. Bedell; y = 7/30, z = 7/31, by Mr. Brogie.

Column F, Franklin(R), Furnas(U), Harlan(H), Kearney(K), Webster(W), 48 species, Mark A. Brogie. a = 7/29(U), b = 7/29(H), c = 7/29(R), d = 7/31(K), e = 7/29(W), A = a, b, + c, B = a + b, C = a + c, D = b + c, E = a, c, + e, F = d + e.

Column G, Garfield(G), Holt(H), Valley(V), Wheeler(W), 80 species, Mark A. Brogie. a = 7/24(H), b = 9/5(G), c = 9/5(W), d = 9/5(V), e = 9/5(H), f = 9/11(H), g = 9/17 and 18(H), h = 10/9(H), i = 10/9(G), j = 10/9(W), A = a, b, c, + d, B = b, c, d, + e, C = a, b, + c, D = a, c, + d, E = a + b, F = a, b, + d, G = a, c, + d, H = a + d, I = b + c, J = b, d, + e, K = c + e, L = g + i, M = h + i, N = g + j, O = h + j, P = h, i, + j, S = g, i, + j, T = f + j.

Column H, Antelope(A), Boone(B), Nance(N), 53 species, Mark A. Brogie, Wayne J. Mollhoff. a = 7/11 and 12(A), b = 7/15(A), c = 7/31(B), d = 7/31(N), all by Mr. Brogie; e = singing Sedge Wrens in the last half of August(B), by Mr. Mollhoff; f = 9/5(A), g = 9/10(A), h = 9/30(A), i = 10/8 and 9(A), j = 10/18(A), k = 11/2 and 3(A), l = 11/6(A), m = 11/20(A), n = 12/3(A), A = c + d + f, B = c + f.

Column I, Clay(C), Fillmore(F), Nuckolls(N), Thayer(T), 26 species, Mark A. Brogie. a = 7/29(N), b = 7/29(T), c = 7/31(C), d = 7/31(F), A = a + b, B = c + d.

Column J, Madison(M), Platte(P), 55 species, Mark A. Brogie. a = 7/28(P), b = 10/11(P), c = 10/11(M), d = 10/13(M), e = 10/16(M), f = 10/22(M), g = 11/6(M), h = 12/10(M), i = 12/17(M), A = b + c, B = a + c, C = b + f, D = b + d, E = a + d.

Column K, Dixon(D), Stanton(S), Wayne(W), 85 species, Mark A. Brogie, Joe Gubanyi. $a = 7/6(W)$, $b = 7/6(S)$, $c = 7/16(S)$, $d = 7/17(W)$, $e = 9/25(W)$, $f = 10/8(W)$, $g = 10/15(W)$, $h = 10/29(S)$, $i = 11/23(D)$, $j = 11/26(D)$, $k = 12/17(S)$, $l = 12/23(D)$, $m = 12/30(D)$, $n = 10/26(W)$, $o = 10/29(W)$, $p = 11/20(W)$, $q = 12/10(W)$, $r = 12/17$ and $18(W)$, $s = 12/30(W)$, $t = 8/19(W)$, $A = a + b$, $B = a + i$, $C = b + e$, $D = b + i$, $E = k + m$, $F = k + l$, $G = f + h$, $I = c + e$, $J = e + f$, $K = k + m + r$, $L = k + m + s$, $M = k + r$, $N = j + k + n$, $O = k + p$, $P = c + r$.

Column L, Butler(B), Jefferson(J), Saline(A), Seward(E), 44 species, Mark A. Brogie. $a = 7/28(B)$, $b = 7/28(E)$, $c = 7/28(A)$, $d = 7/29(J)$, $e = 8/18(B)$, all by Mr. Brogie; $f = 12/10(E)$, $g = 12/12(E)$ by Mr. Gubanyi. $A = a + b + c$, $B = a + c$.

Column M, Burt(B), Cuming(C), Dodge(D), 61 species, Mark A. Brogie. $a = 7/5(C)$, $b = 7/9(B)$, $c = 7/9(C)$, $d = 10/27(D)$, $e = 10/29(D)$, $f = 10/29(C)$, $g = 12/10(D)$, $h = 12/10(C)$, $A = a + b + d$, $B = a + b$, $C = g + h$, $D = f + g$.

Column N, Cass(C), Gage(G), Johnson(J), Pawnee(P), 41 species, Mark A. Brogie, Lena Harden. $a = 7/28(G)$, $b = 7/28(J)$, $c = 7/28(P)$, $d = 7/29(G)$, $e = 8/9(C)$, all by Mr. Brogie; $f = \text{Christmas week}(G)$, by Mrs. Harden. $A = a + b + c$, $B = a + c$.