

## GAVIIDAE

### Common Loon, *Gavia immer*

**1 record:** UWBM 3614, 2-egg set from Lake Wilderness, King County, collected 10 May 1886, extrapolated first-egg date 8 May (Julian day 128).

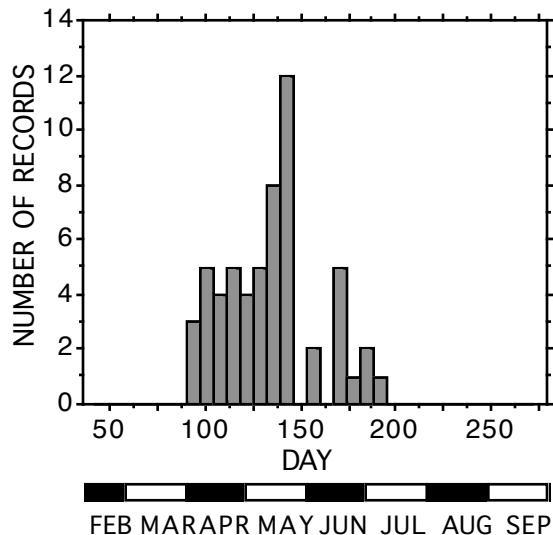
## PODICIPEDIDAE

### Pied-billed Grebe, *Podilymbus podiceps*

**Records:** 56. Burke Museum nest record cards=44 (class cards=17); egg sets=9; field notes=3.

**Counties:** Douglas=4; Grant=3; King=35; Okanogan=1; Pierce=5; Spokane=8.

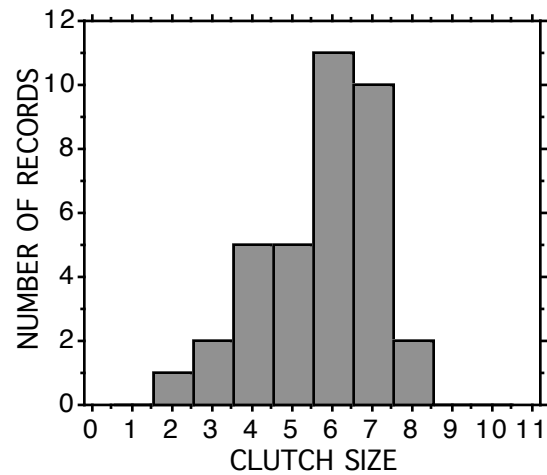
**First-egg dates:** Earliest 3 April (Julian day 93); latest 8 July (Julian day 189).



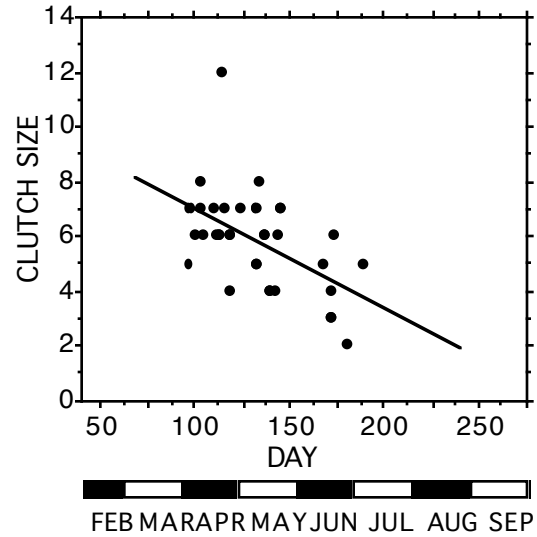
The secondary peak of first-egg dates in June and July could represent second broods.

**Clutch size:** 37 usable records. Mean 5.9 eggs. A single nest with 12 eggs was excluded because it likely represented laying by more than one female.

Two extended observations of laying sequence showed egg production every second day rather than daily.



**Season and clutch size:** The mean clutch size decreased by 3.1 eggs over the 96-days of nest initiation ( $Y = 9.97 - 0.032X$ ;  $r^2=0.34$ ;  $p=0.0002$ ). Although shown in the figure, the 12-egg clutch was eliminated from this analysis as a likely case of conspecific parasitism.



**Red-necked Grebe, *Podiceps grisegena***

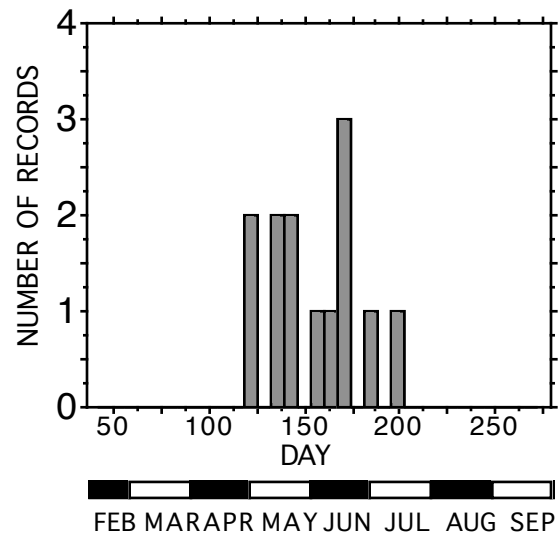
**Records:** 13. Burke Museum nest record cards=13.

**Counties:** Okanogan=2; Spokane=10; Stevens=1.

**First-egg dates:** Earliest 1 May (Julian day 121); latest 15 July (Julian day 196).

**Clutch size:** 4 usable records. Mean 4.5 eggs. Distribution: 3 eggs (N=1), 4 eggs (N=1), 5 eggs (N=1), 6 eggs (N=1).

**Season and clutch size:** Not evaluated because there were just 4 usable records.



### Eared Grebe, *Podiceps nigricollis*

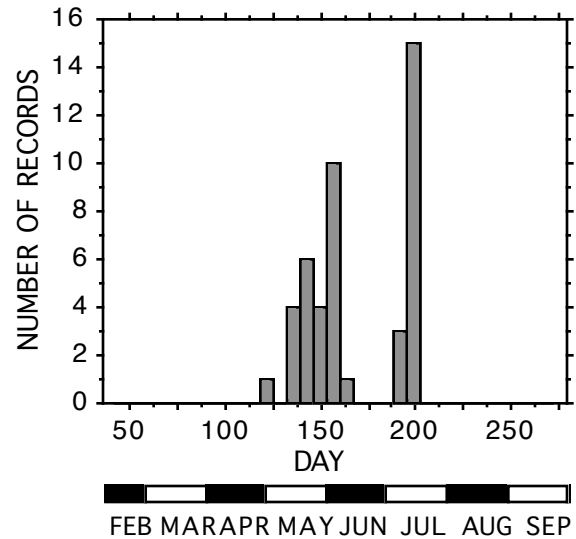
**Records** 44. Burke Museum nest record cards=37; egg sets=7.

**Counties:** Douglas=19; Grant=7; Lincoln=18.

**First-egg dates:** Earliest 3 May (Julian day 123); latest 17 July (Julian day 198). The distribution of first-egg dates covers a wide range of 75 days with a median date of 4 June (Julian day 155). The gap in first-egg dates could represent second broods or large differences in the start of laying in different colonies. Incubation through independence is 42 days.

**Clutch size:** 7 usable records. Mean 3.8 eggs. Distribution: 3 eggs (N=3), 4 eggs (N=2), 5 eggs (N=2).

**Season and clutch size:** Not evaluated because there were just 7 usable records.



### Horned Grebe, *Podiceps auritus*

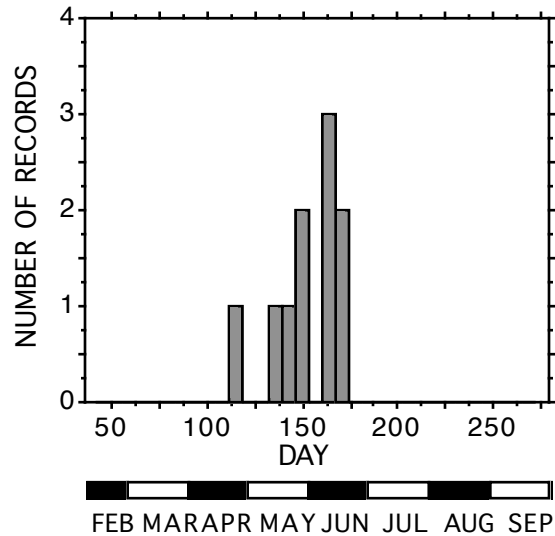
Recorded to breed in Washington, but no records in our files.

### Western Grebe, *Aechmophorus occidentalis*

**Records:** 10. Egg sets=10.

**Counties:** Douglas=3; Grant=7.

**First-egg dates:** Earliest 24 April (Julian day 114); latest 18 June (Julian day 169).



Distribution of first-egg dates is unimodal with an 8-week season. The very similar Clark's Grebe (next account) now breeds on Potholes Reservoir, Grant County. Its status in the state at the time the 7 Grant County egg sets were collected is unknown.

**Clutch size:** 6 usable records. Mean 4.5 eggs. Distribution: 3 eggs (N=3), 5 eggs (N=2), 8 eggs (N=1).

**Season and clutch size:** Not evaluated because there were just 6 usable records.

### Clark's Grebe, *Aechmophorus clarkii*

**5 records:** all Burke Museum specimens from Potholes Reservoir, Grant County.

UWBM 42991: female that had laid 3 eggs, extrapolated first-egg date 8 June 1987 (Julian day 159).

UWBM 35236: female that had laid 2 eggs, extrapolated first-egg date 8 July 1982 (Julian day 189).

UWBM 42995, 42998, 44677: males, each tending 2 or 3 small downy young, extrapolated first-egg date 16 to 18 June 1987 (Julian day 167-169).

## HYDROBATIDAE

### Fork-tailed Storm-Petrel, *Oceanodroma furcata*

#### 3 records:

##### Burke Museum card:

A card from 1975 reports 3800 pairs on Bodelteh Islands in Clallam County, but no basis for the count is given.

#### Collected clutches:

WFVZ: 1-egg set, Clallam County, extrapolated first-egg date 4 June 1907 (Julian day 155).

WFVZ: 1-egg set, Clallam County, extrapolated first-egg date 4 June 1907 (Julian day 155).

### Leach's Storm-Petrel, *Oceanodroma leucorhoa*

#### 4 records, all Burke Museum cards:

Clallam County, Tatoosh Island: single chick, extrapolated first-egg date, 28 May 1956 (Julian day 148).

Clallam County, Tatoosh Island: single chick, extrapolated first-egg date, 28 May 1956 (Julian day 148).

Clallam County, Tatoosh Island: single chick, extrapolated first-egg date, 28 May 1956 (Julian day 148).

Clallam County, Tatoosh Island: 1 egg extrapolated first-egg date 28 July 1956 (Julian day 209); this egg could have been abandoned.

## PELECANIDAE

### American White Pelican, *Pelecanus erythrorhynchos*

**8 records**, all clutches collected on 22 May 1926 from a colony of 30 pairs nesting on a low island in Moses Lake:

UWBM 27003: 2-egg set, Grant County, extrapolated first-egg date 17 May 1926 (Julian day 137).

PSM 11738: 2-egg set, Grant County, extrapolated first-egg date 17 May 1926 (Julian day 137).

PSM 11736: 2-egg set, Grant County, extrapolated first-egg date 17 May 1926 (Julian day 137).

PSM 11735: 2-egg set, Grant County, extrapolated first-egg date 20 May 1926 (Julian day 140).

PSM 11739: 2-egg set, Grant County, extrapolated first-egg date 20 May 1926 (Julian day 140).

PSM 11737: 2-egg set, Grant County, extrapolated first-egg date 20 May 1926 (Julian day 140).

PSM 11740: 4-egg set, Grant County, extrapolated first-egg date of 20 May 1926 (Julian day 140); this record likely represents laying by more than one female and was noted to be the only 4-egg clutch in the colony.

WFVZ: 2-egg set, Grant County, extrapolated first-egg date 20 May 1926 (Julian day 140).

## PHALACROCORACIDAE

### Double-crested Cormorant, *Phalacrocorax auritus*

**8 records:**

Burke Museum colony records:  
San Juan County, The Sisters, 4 pairs, 1975 (no day given).

Skagit County, Viti Rocks, 58 pairs, 1975 (no day given).

Jefferson County, Protection Island, 6 pairs, 1975 (no day given).

Clallam County, Bodelteh Island, 200 pairs, 1975 (no day given).

Collected clutches:

PSM 11713: 4-egg set, Grays Harbor County, extrapolated date of first egg 20 May 1982 (Julian day 140).

PSM 11714: 4-egg set, Grays Harbor County, extrapolated date of first egg 29 May 1982 (Julian day 149).

WSU 49-182: 3-egg set, Whatcom County, extrapolated date of first egg 13 June 1949 (Julian day 164)

WSU 49-183: 5-egg set, Whatcom County, extrapolated date of first egg 13 June 1949 (Julian day 164).

### **Brandt's Cormorant, *Phalacrocorax penicillatus***

Recorded to breed in Washington, but no records in our files.

### **Pelagic Cormorant, *Phalacrocorax pelagicus***

**Records:** 16. Burke Museum nest record cards=11; egg sets=5.

**Counties:** Clallam=4; Island=1; Jefferson=1; San Juan=5; Skagit=1; Whatcom=4.

**First-egg dates:** Earliest 15 June (Julian day 166); latest 4 July (Julian day 185). Extrapolated dates of first eggs are available for only 7 records with median date of 19 June. The remaining records are for colonies and contain no information on individual nests.

**Clutch size:** 5 usable records. Mean 3.2 eggs; distribution: 3 eggs (N=4), 4 eggs (N=1).

**Season and clutch size:** Not evaluated because there were just 5 usable records

