

Peregrine Falcon Restoration in Iowa 2024 Nesting Report - Iowa DNR

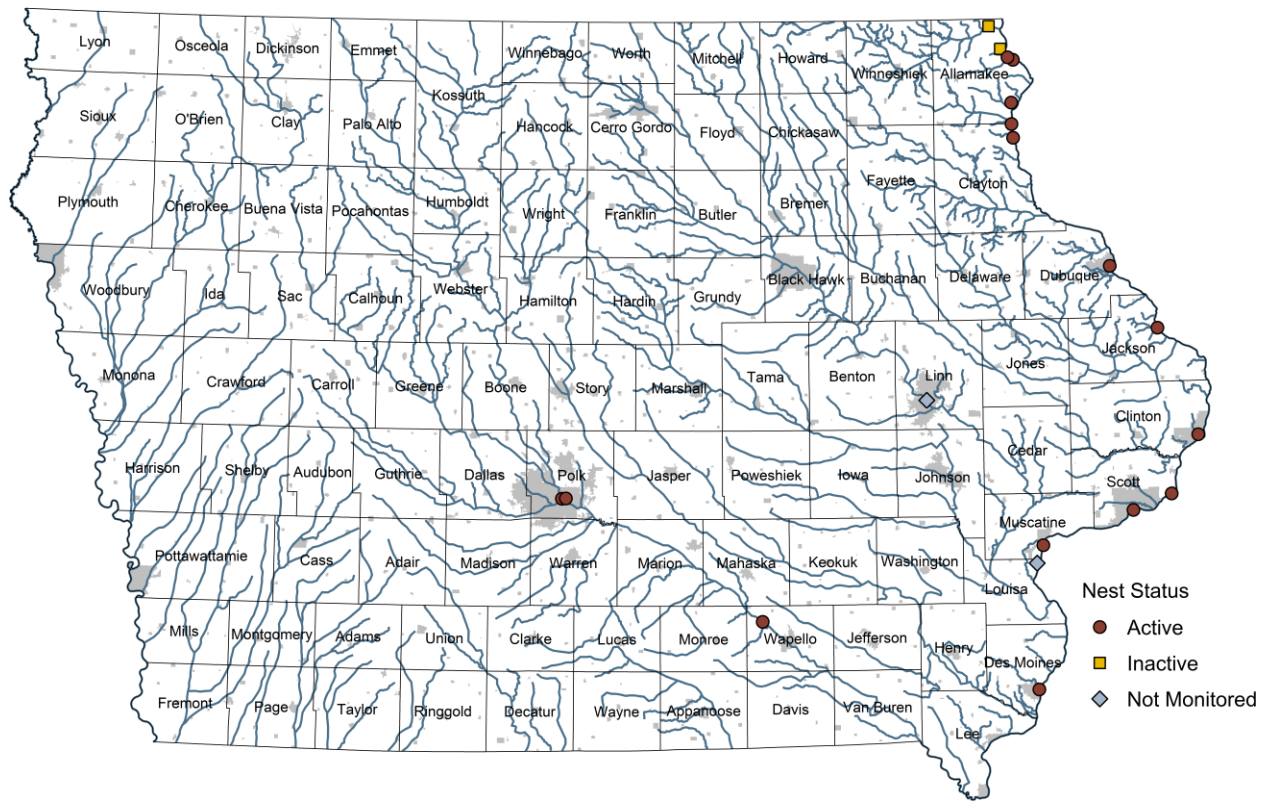
The Peregrine Falcon (*Falco peregrinus*) restoration program in Iowa began in 1989 with 23 birds released in Cedar Rapids followed by another 19 released in Des Moines in 1991. Between 1989 and 2003, a total of 169 captively reared birds were released in Iowa, feeding into a regional restoration effort that saw 875 birds released across the Midwest. In 1999, a further milestone was reached in Iowa when the first pair of birds nested on their historic nesting grounds along the Mississippi River bluffs. As of 2024, most Peregrine Falcon nesting occurs in the eastern half of the state in three main environments: Urban, Mississippi River bluff faces, and energy plant towers (Figure 1).

Monitoring of nest sites is accomplished by a network of volunteer and professional surveyors. The Raptor Resource Project monitors and bands a number of Peregrine nest sites in the Northeastern corner of the state. Several of the nest sites are on power plants which have restricted access so we rely on employees who not only monitor the nest sites but are often wonderful stewards for the birds. Surveyors collect data on the nest's activity and whether the pair are successful in producing fledglings. Some opportunistic reports of nesting activity are also accepted if no formal data are available.

There was a total of 17 nests monitored in 2024 with no new nests reported. Of these 17 nests, 15 were active and 2 were inactive. Of the 15 active nests, 11 were reported as successful, 2 were reported as failed, and 2 had no outcome reported. The average number of young produced per nest with a known outcome was 2.77 (Table 2), a notable increase from last year (1.92).

Compared to recent years, 2024 was an above average year for Peregrine reproduction, with a higher percentage of successful nests (73.3%) than the previous four years (Figure 3). A minimum total of 36 young fledged from the 11 successful nests, notably higher than 2023 (25 young fledged; Figure 4), and the average of 2.77 young produced per nest is the highest since 2016 (Figure 5). Though Peregrine Falcon nest success increased in 2024, continued monitoring is warranted with ongoing disease threats such as Highly Pathogenic Avian Influenza (H5N12.3.4.4). Highly Pathogenic Avian Influenza (HPAI) predominantly effects wild waterfowl and shorebirds but can also be spread to species that eat waterfowl and shorebird prey, such as Peregrine Falcons and Eagles. In 2022, the Iowa DNR documented the loss of one nesting Peregrine to HPAI and in 2023 documented the loss of one Peregrine that wasn't a nesting individual. Overall, Iowa's nesting population of Peregrine Falcons appears to be stable, with birds generally returning to historic nesting sites each year, but this recovering population continues to warrant annual monitoring.

A huge thank you to all of the volunteers who are vital to tracking Peregrine Falcon nesting in Iowa. The DNR will continue to monitor nest sites with the partnership of volunteers and others who care about falcons in Iowa. Falcon nest sites can be very challenging to monitor because of their location and the territoriality of the birds so any data received are much appreciated. Please contact the Volunteer Wildlife Monitoring Program coordinator if you are interested in helping with monitoring in the future; vwmp@dnr.iowa.gov.



Produced by Iowa DNR Wildlife Diversity Program, December 2024

Figure 1. Statewide map showing 2024 nest locations (15 active, 2 inactive, 2 not monitored).

Table 1. 2024 Nest Site Activity in Iowa

Nest ID	County	2024 Activity	Outcome	Young Fledged
6	Clinton	Active	Failed	0
22	Jackson	Active	Failed	0
20	Polk	Active	Successful	3
21	Clayton	Active	Successful	3
27	Allamakee	Active	Successful	4
29	Allamakee	Active	Successful	4
31	Polk	Active	Successful	3
38	Wapello	Active	Successful	2
42	Scott	Active	Successful	3
130	Dubuque	Active	Successful	3
131	Muscatine	Active	Successful	4
133	Allamakee	Active	Successful	3
148	Clayton	Active	Successful	4
36	Scott	Active	Unknown	NA
37	Des Moines	Active	Unknown	NA
30	Allamakee	Inactive	No Activity	NA
163	Allamakee	Inactive	No Activity	NA
19	Linn	Not Monitored	N/A	NA
43	Louisa	Not Monitored	N/A	NA

Table 2. Summary of 2024 Nesting Results

	2020	2021	2022	2023	2024
Number of Nests Reported On	16	17	20	19	17
Number of Inactive Nests	3	1	4	4	2
Number of Active Territories	13	16	16	15	15
Number of Nests Failed	2	5	5	3	2
Number of Nests Successful	8	11	8	10	11
Nests Gone/Removed	0	0	0	0	0
Monitored Nests with Unknown Outcome	3	0	3	2	2
Minimum Total of Young Produced	22	28	21	25	36
Average Young per Nest	2.20	1.75	1.62	1.92	2.77

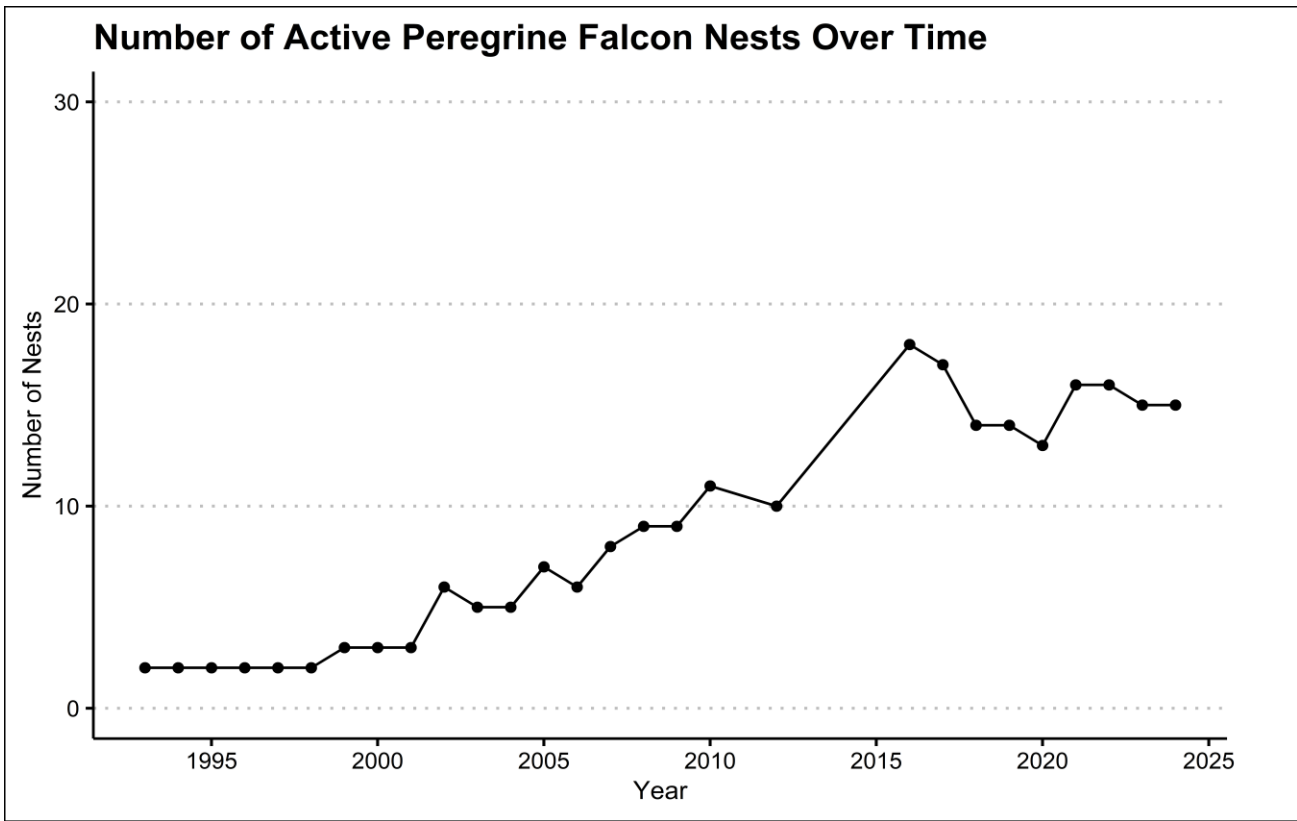


Figure 2. The total number of active nests from 1993-2024 (data from 2011, and 2013-2015 were incomplete, thus are not shown).

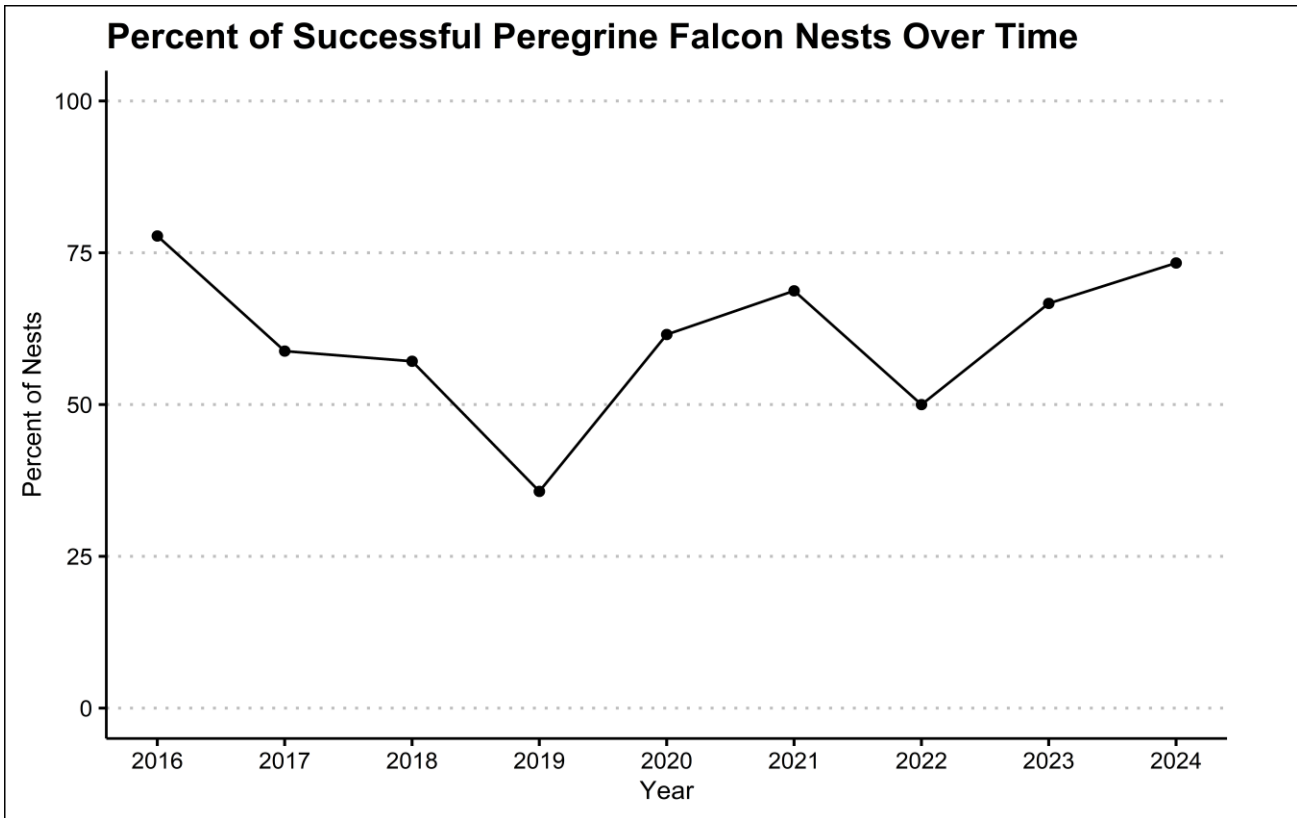


Figure 3. The percent of active and successful nests (out of total active territories) from 2016-2024.

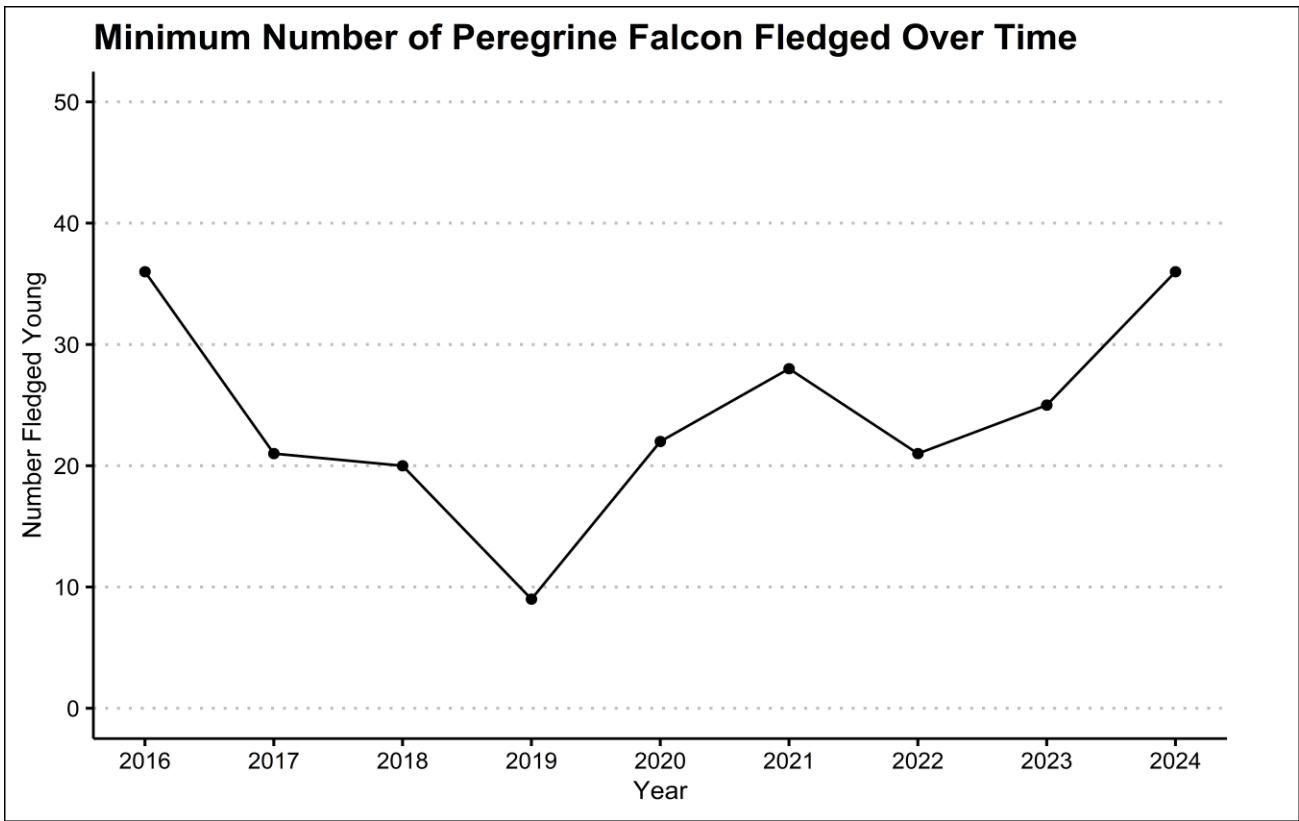


Figure 4. The minimum number of young fledged per year from 2016-2024.

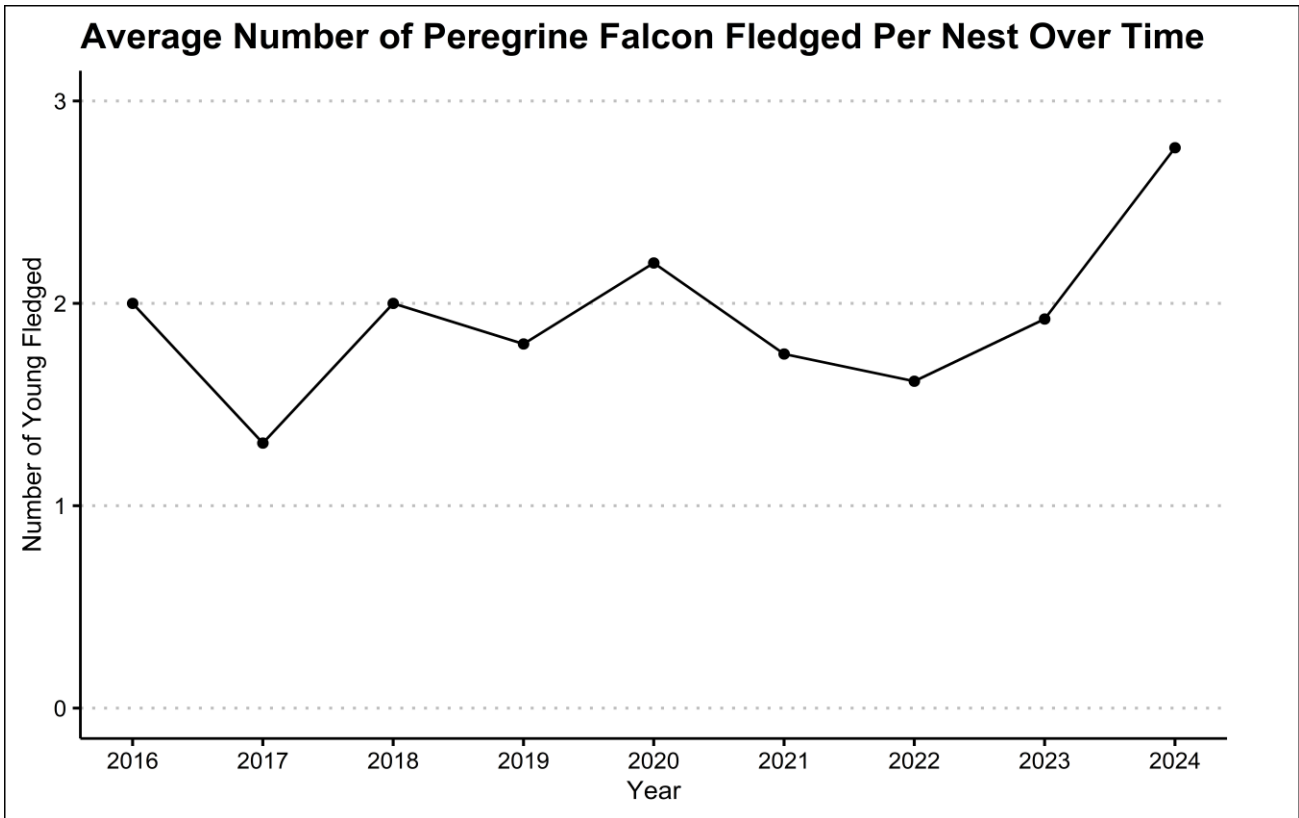


Figure 5. The average number of young fledged per known-outcome nest from 2016-2024.