

ARIZONA GOLDEN EAGLE OCCUPANCY AND PRODUCTIVITY ASSESSMENT 2025

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TABLE OF CONTENTS

Introduction.....	1
Study Area	2
Methods.....	3
Results.....	4
Results of Nest Surveys.....	5
Breeding Areas	5
Historic Breeding Areas	11
Potential Breeding Areas	12
Surveys in Suitable Nesting Habitat.....	15
Discussion	15
Management Recommendations	18
Literature Cited	19
Appendix A: Terminology and Raptor Reproductive Status Criteria.....	23
Appendix B: Summary of Surveys Completed in 2025.....	24
Appendix C: 2025 Golden Eagle Productivity	35

LIST OF FIGURES

Figure 1. Study area of golden eagle survey flights in Arizona in 2025	2
Figure 2. Golden eagles at the Aubrey Cliffs 2 and Deadman Mesa breeding areas	6
Figure 3. Golden eagles at the Dupont and Brushy Basin breeding areas	7
Figure 4. Red-tailed hawk at Armer Gulch and golden eagle at Hellsgate Wilderness 1.....	12
Figure 5. Golden eagles at Willow Spring Mountain and Bradshaw Mountains 1	13
Figure 6. Golden eagle incubating at Cedar Mesa and nestling at Copper Mountain	14
Figure 7. Estimated laying, hatching, and fledging dates 2015-2019, 2021-2025	17
Figure 8. Maps of golden eagle breeding areas in Arizona	18

LIST OF TABLES

Table 1. Summary of Arizona golden eagle productivity in 2025.....	5
Table 2. Estimated laying, hatching, and fledging dates at sampled breeding areas in 2025.....	5
Table 3. Summary of breeding areas examined during nest surveys in 2025.....	7
Table 4. Summary of historic breeding areas surveyed in 2025.....	12
Table 5. Summary of potential breeding areas examined during nest surveys in 2025.....	14
Table 6. Summary of surveys in suitable nesting habitat in 2025	15
Table 7. Summary of Arizona golden eagle occupancy and productivity 2015-2025.....	16
Table 8. Comparison of golden eagle productivity and brood size research.	16
Table 9. Number of golden eagle breeding areas and large nests in Arizona as of 2025	17

ARIZONA GOLDEN EAGLE OCCUPANCY AND PRODUCTIVITY ASSESSMENT 2025

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INTRODUCTION

In 1940, the U.S. Congress passed the Bald Eagle Protection Act to protect declining populations of bald eagles (*Haliaeetus leucocephalus*). This legislation was amended in 1962 to include golden eagles (*Aquila chrysaetos*), becoming the Bald and Golden Eagle Protection Act (Eagle Act). In the late 2000s, the U.S. Fish and Wildlife Service (USFWS) clarified definitions within the Eagle Act and finalized regulations providing a mechanism to authorize take (USFWS 2007a, b; USFWS 2009). In December 2013 the USFWS also finalized revisions to the rule governing eagle take permits and extended programmatic permits to a maximum of 30 years (USFWS 2013), a rule which was challenged in court and vacated. As a result, the USFWS developed a new rule and a programmatic environmental impact statement in December 2016 to reinstate the 30-year permit and to modify other aspects of take permit implementation (USFWS 2016a, 2016b, 2017). In 2024, the USFWS made additional revisions to the regulations governing permits for incidental take and eagle nest take (USFWS 2024). For implementation of take permits to be compatible with the congressional intent of the Eagle Act's preservation standard (i.e., stable or increasing breeding populations), accurate population estimates and trends are needed (Millsap et al. 2013).

In 2010, after the USFWS made its initial clarifications to the Eagle Act, a group of state and federal agencies, Native American tribes, and private entities in Arizona established the Southwestern Golden Eagle Management Committee (SWGEMC) as a means to enhance coordination and communication among interested parties and to provide oversight for golden eagle management in the state. Prior to the formation of the SWGEMC, information on the status, distribution, and life history of breeding golden eagles in Arizona was limited (e.g., Millsap 1981, Eakle and Grubb 1986, Grubb and Eakle 1987, Corman and Wise-Gervais 2005). At the time, observations collected by the Arizona Game and Fish Department (AGFD) were dated or were gathered incidentally or intermittently, and no formalized study to document statewide population numbers had ever been implemented. In 2006, the AGFD conducted a ground survey effort limited to 85 previously known breeding areas (BAs) and found 14 were occupied by golden eagles (unpublished data). All of these past observations and additional information from partners were used to establish a foundation for a more coordinated population assessment effort in Arizona.

Some members of the SWGEMC provided funds to the AGFD to implement statewide nest inventory, occupancy, and productivity surveys for cliff-nesting golden eagles. The AGFD's Terrestrial Wildlife (Nongame) Branch conducted nest survey efforts in 2011-2012, aerial occupancy and nest surveys in 2013-2014, statewide productivity assessments in 2015-2019, and regional occupancy and productivity assessments in 2020-2024 (McCarty and Jacobson 2011, 2012; McCarty et al. 2013-2021, 2023-2024). Additionally, the AGFD Wildlife Contracts Branch conducted surveys on the Barry M. Goldwater Air Force Range (BMGR) via fixed-wing aircraft in May 2013 and March 2014 and via helicopter in August 2014 (Sturla et al. 2014a), as well as other helicopter surveys in southwestern Arizona (Sturla et al. 2014b). This report summarizes

results from the 2025 productivity survey. After the 2025 season, there were 374 known golden eagle BAs, 57 historic BAs, and 466 potential BAs outside of Native American lands in Arizona.

STUDY AREA

In 2025, the golden eagle occupancy and reproductive assessment was conducted in central and northern Arizona covering portions of Coconino, Gila, Maricopa, Mohave, Pinal, and Yavapai counties (Figure 1). Surveys occurred mainly over lands administered by the Arizona State Land Department, Bureau of Land Management, U.S. Forest Service (USFS), and private lands. Elevation of surveyed areas ranged from approximately 670 to 2,500 m (2,200 to 8,200 ft).

The surveyed areas included a variety of habitat types primarily within Bird Conservation Region (BCR) 34, and secondarily in BCRs 16 and 33 (NABCI 2000), and were characterized by seven biotic communities: Great Basin Conifer Woodland, Interior Chaparral, Madrean Evergreen Woodland, Plains and Great Basin Grassland, Rocky Mountain (Petran) Montane Conifer Forest, Semidesert Grassland, and Sonoran Desertscrub (Brown 1994).

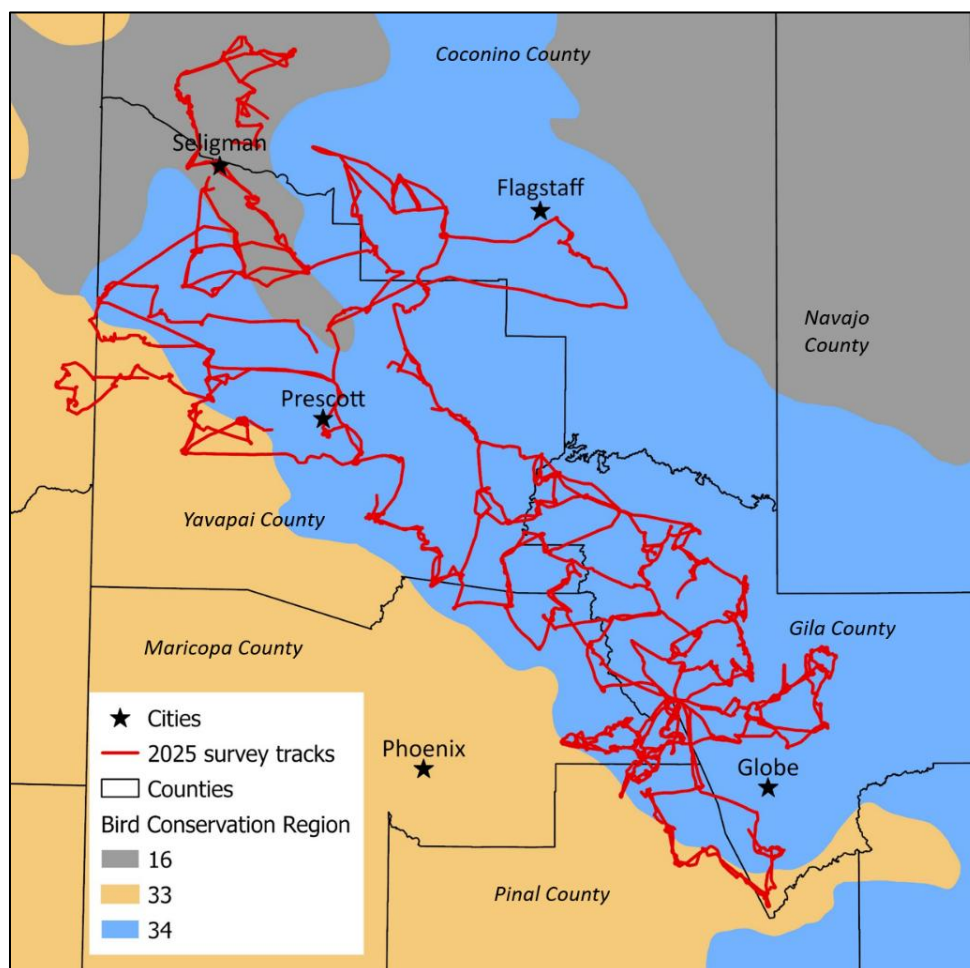


Figure 1. Study area of golden eagle survey flights conducted in Arizona in 2025.

METHODS

We followed operational definitions of breeding status derived from Postupalsky (1974, 1983), Steenhof and Kochert (1982), and Driscoll (2010) (Appendix A). An area was termed a golden eagle breeding area (BA) only if it had been documented as occupied at least once within the last ten years. BAs with no documented occupancy for more than ten years were termed “historic BAs”. However, in many cases a BA designated as historic reflects a lack of occupancy monitoring rather than a ten-year period when the site was known to be unoccupied. Areas with one or more “large” nests but without documentation of positive occupancy status were called “potential BAs”. All potential or historic BAs documented as occupied during surveys are reclassified as BAs in future reports. “Large” refers to nests we considered having suitable qualities (e.g., large size and large sticks) for breeding golden eagles based on our experience with bald and golden eagle nests in Arizona (Grubb and Eakle 1987). “Medium” refers to nests that were not likely to have been large enough for golden eagle use and were probable red-tailed hawk (*Buteo jamaicensis*) or common raven (*Corvus corax*) structures.

In 2020, we began a long-term occupancy and productivity monitoring plan for golden eagles, selecting a different region of the state each year and visiting all BAs, historic BAs, and potential BAs, collecting occupancy and productivity data, and searching for new nests and territories within that region. Every four years, the entire state (excepting tribal lands) will be surveyed. We also incorporated data from the 2011-2019 surveys and considered opportunities to fill in gaps in knowledge of golden eagle distribution and occupancy. Survey efforts were primarily focused on examining all previously discovered large nests within BAs, historic BAs, and potential BAs, and secondarily searching cliff habitat deemed suitable for nesting golden eagles as time allowed.

Although the goal was to survey each BA, historic BA, or potential BA twice, in practice some areas were only surveyed once due to unexpected delays, mechanical or logistical issues, inclement weather, or other factors. When faced with these realities, we prioritized visits to BAs and historic BAs over potential BAs, and sites where at least one golden eagle was detected on prior visits. At some areas there were no existing nests to revisit, and some potential BAs were either considered or confirmed to be territory for nesting hawks rather than eagles, and did not require additional visits.

The first set of surveys occurred in late February to coincide with pre- and early-incubation behavior of golden eagles in Arizona (McCarty et al. 2024). The second round of surveys occurred three to four weeks later (late March to early April) to determine occupancy if it was not observed during the first visit. In order to save time and resources, not all of the sites found with an active nest during the first round of surveys were re-visited in the second round. BAs that were found occupied after one of the first two rounds were visited again in May and/or June as necessary to document the number of young hatched (if any) and reaching at least 80% of fledging age. For golden eagles, measures of 80% of fledging age range from 51-56 days old (7.3-8 weeks) (Kochert et al. 2002, Driscoll 2010, Brown et al. 2013, Pagel et al. 2010). The 80% standard for our assessment was at least 7.5 weeks old although surveys were generally timed for eight weeks old. Golden eagle nestlings were aged following Hoechlin (1976) and Driscoll (2010).

Aerial surveys were conducted on February 18-20, 24-26, 28; March 25-27; April 1-3, 23-24; May 29-30; and June 11, 17. Some observations were also made opportunistically during helicopter surveys of bald eagle nests from January to May. A team of two to three biologists completed the surveys from a helicopter (Bell 206L) flown at approximately 60 m (200 ft) above ground level and at 50-80 knots (approximately 60-90 mph), however in June the observations of final nesting status (to document 80% of fledging age) were made via ground visits or fixed-wing aircraft (Cessna A185F, Cessna TU-206, or Quest Kodiak 100). Altitude and speed of aerial surveys were influenced by topography, ground-based obstacles (presence of high-tension wires, meteorological towers, etc.), and wind. Multiple passes were sometimes necessary to accurately document occupancy and productivity. The minimum data recorded for all surveys included occupancy status, number of adults and their behavior, number of eggs (if visible) and/or young, nestling age, and nest condition. Supplemental information included nest characteristics (size, position on cliff, substrate descriptors, etc.), assessment of site for ground access, and observations of other raptor species. The locations of new nests were recorded on Garmin GPSMAP 64s units. Photos were taken of active nests and most other large nests for future reference using a Nikon D610 DSLR camera with a Sigma lens (150-600 mm).

Laying, hatching, and fledging dates were estimated using nestling age (based on plumage development) as a starting point. For this purpose only, the incubation period was considered to take 45 days and age at fledging to be 70 days old. For pairs producing more than one nestling, the average age of the young was used to generate a single set of estimates per active nest. Fledging dates were only estimated for successful sites.

In December 2016, the USFWS changed the scale at which eagle populations are to be evaluated, from Bird Conservation Regions to migratory flyways (USFWS 2016a, b). The change enlarged eagle management units to correspond to the USFWS administrative flyways, with provisions for evaluating effects of take permits at more local levels. In Arizona, AGFD has utilized the BCR approach since productivity surveys began in 2015. For the sake of consistency, and since BCRs allow for finer-scale comparison within the state, we continue to reference the BCRs. Arizona includes BCRs 16 (Southern Rockies/Colorado Plateau), 33 (Sonoran and Mohave Deserts), 34 (Sierra Madre Occidental), and 35 (Chihuahuan Desert) (NABCI 2000).

RESULTS

The 2025 golden eagle survey effort totaled 74.3 hours (4,458 minutes) of aerial surveys over 19 days (Appendix B). In total, we surveyed 106 previously-known breeding areas, four historic breeding areas, and 70 potential breeding areas at least twice. Additionally, we visited 24 other sites one time only, including three BAs and 21 potential BAs. Notable findings included six new BAs, four new potential BAs, one re-occupied historic BA, and 37 new large nests (22 within BAs and 15 within potential BAs).

Occupancy was documented at 53 of 113 (46.9%) areas eligible for analysis (i.e., they were surveyed at least twice, excluding potential and historic BAs where occupancy was not detected this year) and included 106 previously-known BAs, six new BAs, and one re-occupied historic BA (Table 1, Appendix C). Of the 53 occupied areas, 46 (86.8%) were active and 7 were occupied-

only (13.2%). A total of 23 nestlings hatched at the 46 active areas, and 21 young fledged from 17 successful nesting attempts. Productivity was 0.40 young fledged per occupied BA and mean brood size was 1.2 nestlings.

Based on the observation of nestlings that were aged by feather development, we estimated egg-laying and hatching for 18 of the active BAs, and fledging dates for 17 of them (Table 2). Overall, the 2025 average estimated laying date was February 23 (range February 11 to March 22), average hatching date was April 9 (March 28 to May 6), and average fledging date was June 18 (June 6 to July 15). Although sample sizes were small, nesting was initiated six to seven days later in BCR 16 than BCRs 33 and 34 (Tables 1 and 2).

Table 1. Summary of Arizona golden eagle productivity in 2025.				
	All areas	BCR 16	BCR 33	BCR 34
Areas surveyed	113	23	13	77
Occupied	53 (46.9%)	15 (65.2%)	7 (53.8%)	31 (40.3%)
Active	46	13	7	26
Failed breeding attempts	29	10	3	16
Successful breeding attempts	17	3	4	10
Young hatched	23	6	6	11
Young fledged	21	6	4	11
Nest success (successful/occupied)	0.32	0.20	0.57	0.32
Mean brood size (fledged/successful)	1.2	2.0	1.0	1.1
Productivity (fledged/occupied)	0.40	0.40	0.57	0.35

Table 2. Estimated average laying, hatching, and fledging dates in 2025.				
Estimated:	All BCRs	BCR 16	BCR 33	BCR 34
Laying date	February 23 (n=18)	March 1 (n=3)	February 22 (n=5)	February 23 (n=10)
Hatching date	April 9 (n=18)	April 15 (n=3)	April 8 (n=5)	April 9 (n=10)
Fledging date	June 18 (n=17)	June 24 (n=3)	June 15 (n=4)	June 18 (n=10)

RESULTS OF NEST SURVEYS

Results worthy of discussion are described below and include surveys in suitable habitat (including new BAs and new potential BAs), surveys in breeding areas (including previously known BAs, potential BAs, and historic BAs), discovery of new nests, and additional golden eagle sightings. Nest locations are sensitive data, considered confidential by AGFD, and omitted from this report. Management agencies requiring specific locations should contact AGFD's Heritage Data Management System at (623) 236-7618 or hdms@azgfd.gov.

Breeding Areas

We surveyed 106 previously-known breeding areas at least twice and occupancy was confirmed at 46 sites (Table 3). Findings noted below are limited to observations of golden eagles without active nests (including eight BAs where occupancy was not confirmed) and breeding activity of other raptor species. For a summary of findings at known breeding areas, see Table 3 and Appendix C.

Coconino County

Aubrey Cliffs 3 (3GE044). – On February 24, we observed one golden eagle perched in the area (Figure 2). All observed nests were empty during two visits.

Tank No. 1 (3GE076). – On April 1, we observed one golden eagle perched in the area. All observed nests were empty during two visits.

Gila County

Deadman Mesa (6NE019). – On February 28, we observed one golden eagle perched in the area (Figure 2). All observed nests were empty during two visits.

Dupont (6NE052). – On March 25, we observed one golden eagle perched in the area (Figure 3). All observed nests were empty during two visits.

Hess Canyon (6GE027). – On February 18, we observed one golden eagle perched in the area. All observed nests were empty during two visits.

Yavapai County

Big Chino Valley 1 (3NE060). – On April 1, we observed one golden eagle perched in the area. All observed nests were empty during two visits.

Brushy Basin (3GE081). – On February 25, we observed one golden eagle perched in the area (Figure 3). All observed nests were empty during two visits.

Camp Wood (3GE060). – On February 25, we observed one golden eagle perched and flying in the area. All observed nests were empty during two visits.



Figure 2. Golden eagles perched at the Aubrey Cliffs 3 (left) and Deadman Mesa (right) breeding areas.



Figure 3. Golden eagle at the Dupont (left) and Brushy Basin (right) breeding areas.

Table 3. Summary of breeding areas examined during nest surveys in 2025 (continued next page).				
Breeding area	Area ID ¹	Dates surveyed	Status ²	Comments
Coconino County				
Aubrey Cliffs 1	3NE063	2/24, 4/1, 5/30	F	4/1: Golden eagle incubating or brooding in nest #3. 5/30: Nest #3 empty, failed.
Aubrey Cliffs 2	3GE043	2/24, 4/1	O	2/24: Golden eagle flew from nest #1. Greenery in nest. 4/1: Golden eagle standing in nest #3.
Aubrey Cliffs 3	3GE044	2/24, 4/1	U	All known nests empty. 2/24: One golden eagle perched.
Aubrey Cliffs 4	3GE045	2/24, 4/1, 5/30, 6/11	F	4/1: Golden eagle incubating in nest #1. 5/30: Nest #1 not seen. 6/11: Nest #1 empty. Pair of adult golden eagles perched near nest #1.
Aubrey Cliffs 5	3GE046	2/24, 4/1	U	Nest #3 not found. All other known nests empty. No eagles.
Big Bud Tank	3GE063	2/24, 4/1, 5/30, 7/7	S	4/1: Golden eagle incubating in nest #1. 5/30: Two nestlings, 3+ weeks old. 7/7: One nestling, 8.5+ weeks old.
Bill Williams Mountain 1	2NE088	2/26, 4/23, 5/30	F	4/23: Golden eagle incubating in nest #2. 5/30: Nest empty, failed.
Boquillas	3GE040	2/24, 4/1, 5/30	S	2/24 & 4/1: Golden eagle incubating in nest #1. 5/30: Two nestlings, 8 weeks old.
Double A Knoll	2GE052	2/26, 4/23	U	All known nests empty. No eagles.
Eagle Nest Mountain	2GE050	2/26, 5/30	S	2/26: Golden eagle incubating in nest #3. 5/30: One nestling, 8-9 weeks old.
Flat Mesa	2GE004	2/26, 4/23, 5/30	S	2/26: Golden eagle incubating in nest #3. 4/23: One nestling, 3.5 weeks old. 5/30: One nestling, 8.5-9 weeks old.
Grindstone Wash	2GE073	2/26, 4/23	U	All known nests empty. No eagles.
Henderson	2GE056	2/26, 4/23	U	All known nests empty. No eagles.
Johnson Canyon	2NE034	2/26, 5/30, 6/11	S	2/26: Golden eagle incubating in nest #2. 5/30: One nestling, 7 weeks old. 6/11: One nestling, 8.5+ weeks old.

¹Breeding area identification code.

²A=active, F=failed, O=occupied, S=Successful, U=Unoccupied.

Table 3 continued.				
Breeding area	Area ID ¹	Dates surveyed	Status ²	Comments
Mount Floyd	3GE041	2/24, 4/1, 5/30	F	2/24 & 4/1: Golden eagle incubating in nest #1. 5/30: Nest #1 empty, failed.
Rattlesnake Wash 1	2NE070	2/26, 4/23	U	All known nests empty. No eagles.
Rhodes Canyon	3NE064	2/24, 4/1, 5/30	F	4/1: Golden eagle incubating in nest #2. 5/30: Nest #2 empty, failed.
Round Mountain	3GE042	2/24, 4/1, 5/30	F	2/24: Golden eagle incubating in nest #5. 4/1: Two unattended eggs in nest. Probable failure. 5/30: Nest empty, failed.
Sumac	3GE068	2/24, 4/1, 5/30	S	2/24: Golden eagle incubating in nest #2. 4/1: Golden eagle incubating or brooding in nest #2. 5/30: Two nestlings, 7.5-8 weeks old.
Tank No 1	3GE076	2/24, 4/1	U	All known nests empty. 4/1: Golden eagle perched on peak.
Gila County				
Apache Peak	6GE044	3/26, 5/29, 6/11	S	3/26: Golden eagle incubating in nest #1. 5/29: One nestling, 6.5 weeks old. 6/11: One nestling, 8+ weeks old.
Ash Mountain	6GE040	2/18, 3/26	U	Nest #3 not found. All other known nests empty. No eagles.
Cherry Creek 5	6NE067	2/18, 3/25	U	All known nests empty. No eagles.
Deadman Mesa	6NE019	2/28, 4/24	U	Nests #4 and #5 not found. All other known nests empty. 2/28: One golden eagle perched.
Dupont	6NE052	2/18, 3/25	U	All known nests empty. 3/25: One golden eagle in area.
El Capitan	6GE001	2/20, 3/27	U	Nests #1 and #3 not found. All other known nests empty. No eagles.
Gisela Mountain	6NE041	2/19, 3/25, 5/29	F	3/25: Golden eagle incubating in nest #5. 5/29: Nest #5 empty, failed.
Haigler Creek	6GE037	2/19, 3/25	U	All known nests empty. No eagles.
Hardscrabble Canyon 1	6GE031	2/28, 4/24	U	Nests #4 and #5 not found. All other known nests empty. No eagles.
Hess Canyon	6GE027	2/18, 3/26	U	All known nests empty. 2/18: One golden eagle perched.
Houston Creek	6GE034	2/19, 3/25	U	All known nests empty. No eagles.
Jumpoff	6GE045	2/18, 3/26	U	All known nests empty. No eagles.
Limestone Hills	6NE045	2/28, 4/24	U	All known nests empty. No eagles.
Mailbox Mesa	6NE038	2/19, 3/25	U	All known nests empty. No eagles.
Moody Point	6GE030	2/18, 3/25	O	2/18 & 3/25: Nest #1 with greenery.
Oak Spring Canyon	6GE018	2/19, 3/25	U	All known nests empty. No eagles.
Pine Creek 2	6GE032	2/28, 4/24	U	All known nests empty. No eagles.
Pioneer	6GE061	2/20, 3/27	U	All known nests empty. No eagles.
Potato Butte	6GE035	2/19, 3/25	U	All known nests empty. No eagles.
Rockinstraw	6NE079	2/18, 3/26, 5/29, 6/11	S	3/26: Golden eagle incubating in nest #2. 5/29: One nestling, 6.5 weeks old. 6/11: One nestling, 8+ weeks old.
Salt River Canyon	6NE068	2/18, 3/26	U	All known nests empty. No eagles.

¹Breeding area identification code.

²A=active, F=failed, O=occupied, S=Successful, U=Unoccupied.

Table 3 continued.				
Breeding area	Area ID ¹	Dates surveyed	Status ²	Comments
Sevenmile	6GE043	2/18, 3/26	F	3/26: Golden eagle incubating in nest #2. 5/29: Nest #2 empty, failed.
Sierra Ancha 5	6NE060	2/18, 3/25	U	All known nests empty. No eagles.
Spring Creek	6NE039	2/19, 3/25	U	All known nests empty. No eagles.
Tonto Creek 1	6NE036	2/19, 3/25	U	All known nests empty. No eagles.
Walnut Creek	6NE016	2/18, 3/25	U	All known nests empty. No eagles.
Maricopa County				
Alchesay Canyon	6GE002	2/19, 3/26, 4/17	F	3/26: Golden eagle incubating in nest #10. 4/17: Nest #10 empty, failed.
Boulder Creek	6GE039	2/19, 5/29, 6/11	S	2/19: Golden eagle incubating in new nest #5. 5/29: Two nestlings, one 6.5 weeks and one 7 weeks old. 6/11: Two nestlings, 8-8.5 weeks old.
County Line	6GE062	2/19, 3/26	U	All known nests empty. No eagles.
Horse Mesa	6GE014	2/19, 3/26	U	All known nests empty. No eagles.
New River Mountains 2	6NE028	2/28, 4/24	U	All known nests empty. No eagles.
Superstition 1	6GE046	2/19, 3/27	U	Nest #8 not found. All other known nests empty. No eagles.
Superstition 3	6NE089	2/19, 3/26, 5/29	F	3/26: Golden eagle incubating in nest #3. 5/29: Nest #3 empty, failed.
Two Bar	6NE087	2/19, 3/26	O	All known nests empty. 3/26: Two golden eagles perched.
Mohave County				
Burro Cliffs	3GE057	2/25, 4/3	U	Nest #3 not found. All other known nests empty. No eagles.
Burro Creek Wilderness 1	3GE065	2/25, 4/3	U	All known nests empty. No eagles.
Hells Half Acre	3GE005	2/25, 4/3	U	Either nest #2 or #9 not found. All other known nests empty. No eagles.
Trinity	3GE077	2/24, 4/1, 5/30	F	4/1: Golden eagle incubating in new nest #2. 5/30: Nest #2 empty, failed.
Pinal County				
Millsite	6GE047	2/20, 3/27	O	All known nests empty. 2/20: Two golden eagles flying.
Rincon	6GE028	2/20, 3/27, 5/29, 6/11	S	3/27: Golden eagle incubating in new nest #13. 5/29: One nestling, 5.5-6 weeks old. 6/11: One nestling, 7.5 weeks old.
Superstition 6	6NE092	2/19, 3/27	U	Nests #2 and #7 not found. All other known nests empty. No eagles.
Yavapai County				
Agua Fria 1	6NE024	2/28, 4/24	F	2/28: Golden eagle incubating in new nest #8. 4/24: Nest empty, failed.
Big Black Mesa 1	3NE092	2/24, 4/1	U	All known nests empty. No eagles.
Big Black Mesa 2	3NE093	2/24, 5/30	F	2/24: Golden eagle incubating in nest #1. 5/30: Nest #1 empty, failed.
Big Chino	3GE037	2/24, 4/1, 5/30	F	2/24: Greenery in nest #2. 4/1: Golden eagle incubating in nest #2. 5/30: Nest #2 empty, failed.
Big Chino Valley 1	3NE060	2/24, 4/1	U	Nest #2 not found. Nest #3 or #4 not found. All other known nests empty. 4/1: Golden eagle perched.

¹Breeding area identification code.

²A=active, F=failed, O=occupied, S=Successful, U=Unoccupied.

Table 3 continued.				
Breeding area	Area ID ¹	Dates surveyed	Status ²	Comments
Bradshaw Mountains 1	6NE075	2/28, 4/24, 5/29, 6/11, 6/17	S	2/28: Two golden eagles perched. 4/24: Golden eagle incubating or brooding in nest #2. 5/29: One nestling, 5 weeks old. 6/11: One nestling, ~7 weeks old. 6/17: One nestling, ~8 weeks old.
Brushy Basin	3GE081	2/25, 4/23	U	All known nests empty. 2/25: Golden eagle perched in area.
Burro Creek	3GE011	4/3, 5/30	F	4/3: Golden eagle incubating in nest #11. 5/30: Nest #11 empty, failed.
Burro Mesa	3GE007	2/25, 4/3	U	All known nests empty. No eagles.
Camp Wood	3GE060	2/25, 4/3	U	All known nests empty. 2/25: One golden eagle in area.
Cherry Creek	3GE062	2/28, 4/24	O	2/28: Greenery in nest #1. One golden eagle perched in area.
Conger	3GE080	2/25, 5/30	S	2/25: Golden eagle incubating in nest #3. 5/30: One nestling, 9+ weeks old.
Copper Creek	6GE029	2/28, 4/24	F	2/28: Golden eagle incubating in nest #4. 4/24: Nest #4 empty, failed.
Cypress Mountain	3GE066	2/25, 5/30	S	2/25: Golden eagle incubating in nest #5. 5/30: One nestling, 9+ weeks old.
Deadman Creek	6GE036	2/20, 3/25, 5/29	F	3/25: Golden eagle incubating in nest #5. 5/29: Nest #5 empty, failed.
East Cedar Mountain	6GE033	2/20, 4/24, 5/29	S	2/20: Golden eagle incubating in new nest #3. 4/24: One nestling, 2-3 weeks old. 5/29: One nestling, 8 weeks old.
Gold Star	3GE075	2/26, 5/30	F	2/26: Golden eagle incubating in nest #2. 5/30: Nest #2 empty, failed.
Granite	2GE049	1/24, 2/26, 3/14, 4/2	U	All known nests empty. No eagles.
Hell Point	3GE017	1/3, 2/26, 3/14, 4/2	U	All known nests empty. No eagles.
Janes Butte	3NE105	2/24, 4/1, 5/30	F	2/24: Greenery in nest #1. 4/1: Golden eagle incubating in nest #1. 5/30: Nest #1 empty, failed.
Juniper Mountains 1	3NE059	2/24, 4/1, 5/30	F	2/24 & 4/1: Golden eagle incubating in nest #1. 5/30: Nest #1 empty, failed.
Juniper Mountains 2	3NE094	2/24, 4/1	U	All known nests empty. No eagles.
Juniper Mountains 3	3GE071	2/24, 4/23	U	All known nests empty. No eagles.
Kirkland Peak	3NE099	2/26, 5/30	S	2/26: Golden eagle incubating in nest #1. 5/30: One nestling, 6.5-7 weeks old. 6/11: One nestling, 8-8.5 weeks old.
Little Lime Creek	6GE042	2/20, 4/24	U	All known nests empty. No eagles.
Martin Mountain	3NE098	2/26, 4/23	F	4/23: Golden eagle incubating in new nest #5. 5/30: Two unattended eggs in nest, failed.
Martin Mountain 2	3GE089	2/26, 4/23	U	All known nests empty. No eagles.
Mazatzal Wilderness 5	6NE070	2/20, 3/25	U	All known nests empty. No eagles.
McCloud Mountains	3GE059	2/26, 4/23	F	2/26: Golden eagle standing in nest #1 with a second golden eagle nearby. 4/23: Golden eagle feeding two small nestlings, 1-2 weeks old. 5/30: Nest empty, failed.

¹Breeding area identification code.

²A=active, F=failed, O=occupied, S=Successful, U=Unoccupied.

Table 3 continued.				
Breeding area	Area ID ¹	Dates surveyed	Status ²	Comments
Midnight Mesa	6GE038	2/20, 4/24	U	All known nests empty. No eagles.
Mingus Mountain	3NE101	2/26, 4/24	U	All known nests empty. No eagles.
Mohon Mountains	3GE055	2/25, 4/23	U	All known nests empty. No eagles.
Mormon Pocket	2GE031	1/24, 2/26, 3/14	U	All known nests empty. No eagles.
Mount Hope	3GE056	2/25, 4/3	U	All known nests empty. No eagles.
Picacho Butte	3GE039	2/24, 4/1, 5/30	F	2/24 & 4/1: Golden eagle incubating in new nest #3. 5/30: Nest #3 empty, failed.
Pine Spring	3GE061	2/25, 4/23	F	4/23: One unattended egg in nest #1. No eagles seen. Failed.
Poland Creek	6GE041	2/28, 4/24	U	Nest #4 not found. All other known nests empty. No eagles.
Quartz	3GE078	2/24, 4/1, 4/23	F	4/1: Golden eagle incubating in nest #1. 4/23: Nest #1 empty, failed.
South Butte	3GE038	2/24, 4/1	O	2/24: Greenery in nest #1.
Sullivan Buttes	3NE095	2/25, 4/2	U	All known nests empty. No eagles.
Sycamore	3GE058	2/26, 4/23	U	Nest #8 not found. All other known nests empty. No eagles.
Trap Canyon	6NE034	2/28, 4/24	F	4/24: One unattended egg in nest, failed.
Ward Pocket	3NE103	2/26, 4/24	U	All known nests empty. No eagles.
Wilder	3GE079	2/25, 4/3	U	All known nests empty. No eagles.
Woodchute Mountain	3GE015	2/26, 4/24	U	All known nests empty. No eagles.

¹Breeding area identification code.

²A=active, F=failed, O=occupied, S=Successful, U=Unoccupied.

Historic Breeding Areas

We surveyed four historic breeding areas twice and confirmed occupancy at one of the sites (Table 4). Findings noted below are limited to observations of golden eagles. For a summary of findings at historic breeding areas, see Table 4 and Appendix C.

Mohave County

Francis Creek (3GE008). – On February 2, we observed a golden eagle incubating in nest #2. The nest was empty on May 30, and the breeding attempt failed. This breeding area was discovered in 1979, when a golden eagle was perched at a nest in April and two nestlings were observed in June that year. During surveys in 2013 and 2021, we observed no eagles and all known nests were empty.

Table 4. Summary of historic breeding areas surveyed in 2025.				
Historic breeding area	Area ID ¹	Dates surveyed	Status ²	Comments
Gila County				
Dutchwoman Butte	6NE056	2/18, 3/25	U	All known nests empty. No eagles.
Pinto Creek	6GE026	2/18, 3/26	U	All known nests empty. No eagles.
Mohave County				
Elephant Mountain	3GE006	2/25, 4/3	U	Nests #2, 4-5 not found, incompletely surveyed. No eagles.
Francis Creek	3GE008	2/25, 5/30	F	2/25: Golden eagle incubating in nest #2. Second golden eagle perched. 5/30: Nest empty, failed.

¹Breeding area identification code.

²F=failed, U=Unoccupied.

Potential Breeding Areas

We surveyed 70 previously documented potential BAs at least twice and found five of them occupied for the first time (Table 5). The five occupied sites will be designated as breeding areas in future reports. Findings noted below are limited to observations of golden eagles and breeding activity of other raptor species. We surveyed an additional 21 potential BAs just once, and did not include them in the summary tables unless we observed golden eagles or other raptors.

Coconino County

Ferguson Tank (3NE112). – On February 24, we observed one golden eagle perching and flying in the area. All known nests were empty during two visits.

Gila County

Armer Gulch (6NE057). – On March 25, we observed a red-tailed hawk incubating in nest #2 (Figure 4). No eagles were observed.

Hellsgate Wilderness 1 (6NE037) (new BA). – On March 25, we observed a golden eagle incubating in nest #1 (Figure 4). On May 29, we found the nest was empty and the breeding attempt failed.



Figure 4. Red-tailed hawk incubating at Armer Gulch (left) and golden eagle incubating at Hellsgate Wilderness 1 (right).

Mazatzal Wilderness 2 (6NE046). – On April 24, we observed a red-tailed hawk incubating in nest #1. No eagles were seen during two visits.

Maricopa County

Goldfield Mountains 2 (6NE138). – On March 26, we observed a red-tailed hawk incubating in nest #3. No eagles were seen during two visits.

Willow Spring Mountain (6NE050) (new BA). – On February 20, we observed two golden eagles perched in the area (Figure 5). All known nests were empty during two visits.

Yavapai County

Bradshaw Mountains 1 (6NE075) (new BA) – On February 28, we observed two golden eagles perched in the area, and a golden eagle incubating or brooding in nest #2 on April 24. We saw one five-week old nestling on May 29 with one adult perched nearby (Figure 5), and last saw the nestling on June 17 at eight weeks old.

Cedar Mesa (3NE088) (new BA). – On March 25, we observed a golden eagle incubating in a new nest on a cliff (#3) (Figure 6). On April 23, we saw one three-week old nestling, and last saw the nestling on May 30 at eight weeks old.

Copper Mountain (3NE100) (new BA). – On April 24, we observed a three-week old golden eagle nestling in a new nest on a cliff (#2), and also found a second new large nest (#3). We last saw the nestling at eight weeks old on May 29 (Figure 6).

Double T (6NE098). – On February 28, we observed a golden eagle perched and flying. All known nests were empty and in very poor condition during two visits.

Goodwin Mesa (3NE131). – On April 3, we observed a golden eagle flying in the area. All known nests were empty during two visits.



Figure 5. Pair of golden eagles at Willow Spring Mountain (left) and golden eagle perched at Bradshaw Mountains 1 (right).



Figure 6. Golden eagle incubating at Cedar Mesa (left) and nestling at Copper Mountain (right).

Table 5. Summary of potential breeding areas examined during nest surveys in 2025. ¹				
Potential breeding area	Area ID ²	Dates surveyed	Status ³	Comments
Coconino County				
Ferguson Tank	3NE112	2/24, 4/1	U	2/24: One golden eagle in the area. All known nests empty.
Gila County				
Armer Gulch	6NE057	3/25	U	3/25: Red-tailed hawk incubating in nest #2.
Hellsgate Wilderness 1	6NE037	2/19, 3/25, 5/29	F	2/19: Greenery in nest #1. 3/25: Golden eagle incubating in nest #1. 5/29: nest empty, failed.
Mazatzal Wilderness 2	6NE046	2/20, 4/24	U	4/24: Red-tailed hawk incubating in nest #1.
Maricopa County				
Goldfield Mountains 2	6NE138	2/19, 3/26	U	3/26: Red-tailed hawk incubating in nest #3.
Willow Spring Mountain	6NE050	2/20, 4/24	O	2/20: Pair of golden eagles perched. All known nests empty.
Yavapai County				
Bradshaw Mountains 1	6NE075	2/28, 4/24, 5/29, 6/11, 6/17	S	2/28: Two golden eagles perched. 4/24: Golden eagle incubating or brooding in nest #2. 5/29: One nestling, 5 weeks old. 6/11: One nestling, 7 weeks old. 6/17: One nestling, 8 weeks old.
Cedar Mesa	3NE088	2/25, 4/23, 5/30	S	2/25: Golden eagle incubating in new nest (#3). 4/23: One nestling, 3 weeks old. 5/30: One nestling, 8 weeks old.
Copper Mountain	3NE100	2/28, 4/24, 5/29	S	4/24: One golden eagle nestling, 3-3.5 weeks old in a new nest (#2). 5/29: One nestling, 8 weeks old.
Double T	6NE098	2/28, 4/24	U	2/28: One golden eagle in the area. All known nests empty.
Goodwin Mesa	3NE131	2/25, 4/3	U	4/3: One golden eagle in the area. All known nests empty.

¹Only includes sites that were occupied, or where a single golden eagle or other raptors were seen.

²Area identification code.

³F=failed, O=occupied, S=successful, U=unoccupied.

Surveys in Suitable Nesting Habitat

We documented one new BA and four new potential BAs while surveying new habitat, including 13 new large nests (Table 6). Findings noted below are limited to observations of golden eagles and breeding activity of other raptor species.

Yavapai County

Big Bug (3GE088) (new BA). – On February 26, we found two new large nests on a cliff (#1, #2), and a golden eagle was incubating in nest #1. On April 24, the nest was empty and the nesting attempt failed.

Table 6. Summary of surveys in suitable nesting habitat in 2025.				
Area name	Area ID ¹	County	Dates surveyed	Comments
Big Bug	3GE088	Yavapai	2/26, 4/24	2/26: Two new large nests found (#1, #2). Golden eagle incubating in nest #1. 4/24: Nest #1 empty, failed.
Bradshaw Mountains 3	6NE140	Yavapai	2/28, 4/24	Two new large nests found. No eagles.
Dripping Spring 1	6NE141	Gila	3/27	One new large nest found. No eagles.
Steamboat	6NE142	Pinal	3/27	Five new large nests found. No eagles.
Dripping Spring 2	6NE143	Pinal	3/27	Three new large nests found. No eagles.

DISCUSSION

The observed occupancy of BAs surveyed in 2025 (46.5%) was below the average of 53.1% in occupancy and productivity surveys since 2015 (Table 7). As usual, we caution that our observed occupancy rates are likely lower than reality in part due to reliance on aerial surveys and the associated difficulty in detecting resident eagles that do not lay eggs. For example, McIntyre (2002) found an overall occupancy rate of 83.0% (ranging from 69.7% to 93.4%) in a long-term study of golden eagles in Alaska using a combination of foot, dogsled, and helicopter.

Productivity at our surveyed areas in 2025 (0.40) was below the average of 0.58 from 2015-2024 (Table 7), excluding 2020 when the COVID-19 pandemic interrupted our ability to survey. Other studies have reported higher mean annual brood size and productivity than seen in our Arizona results (Table 8), however productivity in Arizona varies according to BCR. This year, the majority of areas surveyed were located in BCR 34 (67.5%), which has had lower productivity (0.47, n=301 occupied breeding areas) than either BCR 16 or 33 since 2015 (0.66, n=149 and 0.60, n=96 respectively). We observed similar results in 2021 when the survey area broadly covered the same areas as in 2025, and included lower than average productivity and nest success in both years (Table 7).

We combined nesting chronology data from the 2015-2019 and 2021-2025 surveys to help fine-tune the planning of future efforts. Statewide, the average estimated laying date is February 21 (n=257, range January 25 to March 23), hatching is April 7 (n=257, range March 11 to May 7), and fledging is June 15 (n=220, range May 20 to July 16) (Figure 7). We based the estimates of laying, hatching, and fledging dates on the observed plumage development of nestlings, and excluded nesting attempts that failed prior to hatching from laying estimates.

Currently in Arizona there are 374 known golden eagle BAs, 57 historic BAs, and 466 potential BAs, excluding those that occur on Native American lands (Table 9, Figure 8).

Table 7. Summary of Arizona golden eagle occupancy and productivity at sampled breeding areas in 2015-2025.											
	2015	2016	2017	2018	2019	2020 ^a	2021 ^b	2022	2023	2024	2025 ^b
BAs surveyed	87	100	102	101	112	68	93	95	44	96	114
BAs occupied	45	67	61	47	70	42	48	25	23	49	53
Percent occupied	51.7	67.0	59.8	46.5	62.5	61.8	51.6	26.3	52.3	51.0	46.5
Active	42	58	49	33	59	--	44	18	21	42	46
Failed attempts	17	19	16	20	26	--	30	6	8	16	29
Successful attempts	25	39	33	13	33	--	14	12	13	24	17
Young hatched	34	59	50	24	47	--	24	16	16	36	23
Young fledged	28	52	44	19	39	--	16	14	14	29	21
Nest success	0.56	0.58	0.54	0.28	0.47	--	0.29	0.48	0.57	0.49 ^c	0.32
Mean brood size	1.12	1.33	1.33	1.46	1.18	--	1.14	1.16	1.08	1.21 ^c	1.24
Productivity	0.63	0.78	0.72	0.40	0.56	--	0.33	0.56	0.61	0.62 ^c	0.40

^aIn 2020, the COVID-19 pandemic prevented aerial surveys and collection of data from occurring after April 2.

^bAreas surveyed in 2021 and 2025 were comparable.

^cExcludes two active sites where final status was not determined.

Table 8. Comparison of golden eagle productivity and brood size research.						
Study	State	Years	Mean annual brood size	Brood size range	Mean annual productivity	Productivity range
This study (2015-2025) ^a	AZ	10	1.23	1.08 - 1.46	0.56	0.33 – 0.78
McIntyre 2002	AK	12	1.45	1.13 - 1.68	0.68	0.16 - 1.16
Phillips et al. 1990	MT/WY	11	1.30	1.1 - 1.8	0.78	0.37 - 1.50
Steenhof et al. 1997	ID	24	1.56	1.0 - 2.0	0.79	0.16 - 1.38
Phillips and Beske 1990	WY	5	1.48	1.33 - 1.65	0.81	0.52 - 1.16
Thompson et al. 1982	OR	16	1.70	1.42 - 2.0	1.08	0.20 - 1.67
Millsap 1981 ^b	AZ	2	1.58	--	1.25	--

^aExcluding 2020.

^bBrood size=per active nest.

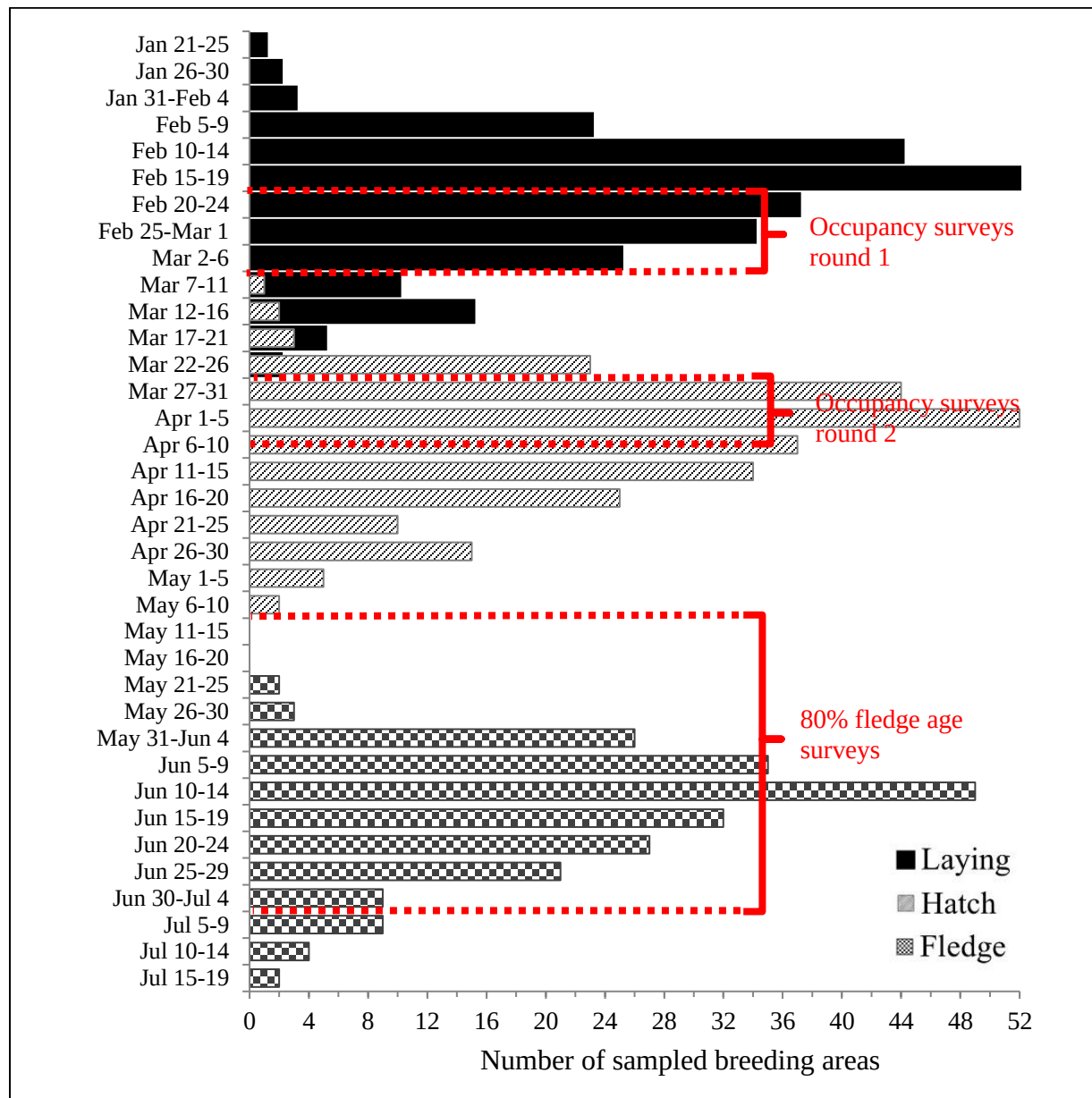


Figure 7. Estimated laying, hatching, and fledging dates at sampled golden eagle breeding areas 2015-2019, and 2021-2025 including recommended timing for future aerial surveys.

Table 9. Number of current, historic, and potential golden eagle breeding areas by Bird Conservation Regions in Arizona as of 2025.			
BCR number	Current BAs	Historic BAs	Potential BAs
16	90	15	78
33	77	15	189
34	204	26	199
35	3	1	--
Total	374	57	466

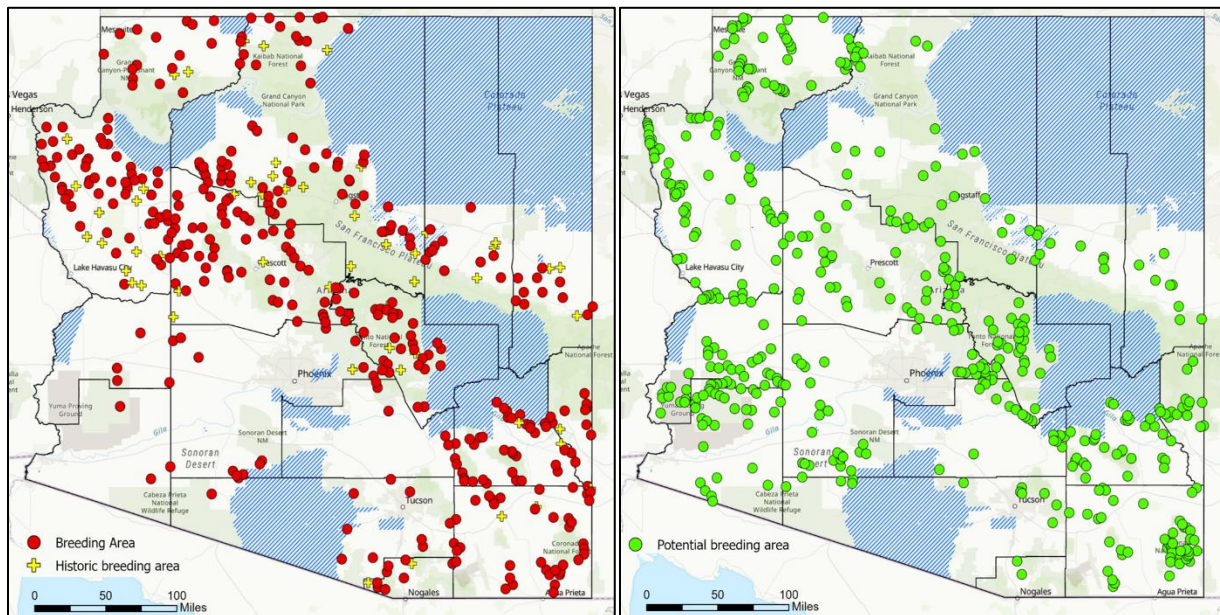


Figure 8. Maps of current and historic golden eagle breeding areas (left) and potential breeding areas (right) in Arizona, excluding Native American lands (blue shaded). County lines in black.

MANAGEMENT RECOMMENDATIONS

1. Future survey efforts should incorporate segments of suitable habitat within each of Arizona's three main BCR's that have not been fully explored:
 - a. In BCR 16, the Grand Wash Cliffs north of Grand Canyon, Andrus Canyon, Kanab Creek and tributaries (Grama and Hack Canyons), Kaibab Plateau, Saddle Mountain Wilderness Area, Marble Canyon, Grand Canyon National Park.
 - b. In BCR 33, portions of Yuma Proving Ground, Barry M. Goldwater Range (West), Organ Pipe National Monument, Cabeza Prieta National Wildlife Refuge, and Buckskin, Dome Rock, Eagletail, Gila Bend, Rawhide, and Trigo Mountains.
 - c. In BCR 34, portions of the Superstition Wilderness, southern Tonto National Forest, Coconino National Forest (Sedona area), Coronado National Forest (including portions of Atascosa, Chiricahua, Huachuca, Patagonia, Pinaleno, Santa Catalina, and Santa Rita Mountains), and Apache-Sitgreaves National Forest (Greenlee County; San Francisco and Blue Rivers).
2. Partner with tribes and Department of Defense to conduct nest inventory or occupancy surveys to fill in gaps of golden eagle breeding distribution.
3. Incorporate limited ground surveys into the monitoring plan to supplement aerial surveys. Observations from the ground would be especially beneficial January through March to detect occupancy.

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APPENDIX A: TERMINOLOGY AND RAPTOR REPRODUCTIVE STATUS CRITERIA

Breeding Area (BA): An area containing one or more nests within the range of a mated pair of birds displaying occupancy as described below. Operationally, once a BA is established, we consider it a BA whether it is occupied by eagles in a given year or not, until or unless it is designated historical (i.e., ten consecutive years unoccupied).

Occupied BA: An occupied BA must have a nest, which is any nest, where at least one of the following activity patterns was observed during the breeding season:

- a. Young were raised.
- b. Eggs were laid.
- c. One adult sitting low in a nest, presumably incubating.
- d. Two adults present on or near the nest.
- e. One adult and one bird in immature plumage at or near a nest, if mating behavior was observed (display flight, nest repair, copulation).
- f. A recently repaired nest with fresh sticks, or fresh boughs on top, and/or droppings and/or molted feathers on its rim or underneath.

Active Nest: A nest in which eggs have been laid. Activity patterns (a), (b), and (c) above are diagnostic of an active nest.

Unoccupied BA: A nest or group of nests at which none of the activity patterns diagnostic of occupancy were observed in a given breeding season. At least two visits are required with 30 days between visits in order to designate the site as unoccupied. Sites must have existed as occupied before they can be recognized and classified as an unoccupied BA.

Historic BA: A BA documented as having been unoccupied for ten consecutive years prior to the current year.

Successful nest: An active nest from which at least one young fledged during the breeding season under consideration. Nests were successful if at least one young was raised past 80% of fledging age.

Failed nest: An active nest from which no young fledged regardless of cause.

Productivity: The number of young fledged per occupied BA.

Nest success: The number of successful nesting attempts per occupied BA.

Mean brood size: The number of young produced per successful breeding attempt.

APPENDIX B: SUMMARY OF SURVEYS COMPLETED IN 2025

Table 9. Summary of surveys in 2025 (continued next page)			
Area ID	Time	Status ¹	Comments
January 3, 2025			
3GE017	1248	U	All known nests empty. No eagles.
January 24, 2025			
2GE031	1054	U	All known nests empty. No eagles.
2GE049	1110	U	All known nests empty. No eagles.
February 18, 2025			
6NE080	1108	U	Nests #1-2 not found, #3 fair.
6GE045	1117	U	Nests #1, 4-6 fair. Nest #2 good, #3 poor-fair.
6GE027	1129	N1	Nests #1-2 good. One golden eagle perched on ridge.
6NE077	1138	U	Nest #1 poor.
6GE040	1142	U	Nests #2, 4 fair. Nests #1, 3, 5 not found. New large nest found.
6NE068	1210	U	Nests #1-3, 5 fair. #4 poor-fair.
6NE078	1224	U	Nest #2 poor. #3 fair. Nest #1 not found.
6GE043	1231	U	Nests #1-2 poor, #4 fair. #3 not found.
6NE079	1247	U	Nest #1, 3-4 fair. #2 poor.
6NE082	1255	U	Nest #1 poor-fair.
6NE083	1301	U	Nest #1 poor-fair. #2 fair.
6GE026	1311	U	Nests #1, 3 fair. #2 poor.
6NE058	1431	U	Nest #1 fair.
6NE060	1441	U	Nests #1-2, 4 fair. Two nests at #5. Nest #3 not found.
6GE030	1451	O	Nest #1 with lots of greenery, good.
6NE067	1500	U	Nest #1 fair. #2 not found.
6NE074	1508	U	Nest #1 not found.
6NE066	1515	U	Nest #1 very poor. #2 poor-fair.
6NE044	1525	U	Nest #1 empty.
6NE016	1527	U	Nests #1-3 fair.
6NE065	1533	U	Nest #1 fair. #2 very poor. #3 poor-fair.
6NE064	1538	U	Saw one nest (either #1 or #2).
6NE052	1548	U	Nest #5 fair. No other nests seen, quick pass.
6NE072	1552	U	Nests #1-3 fair.
6NE055	1557	U	Nests #1-2 empty.
6NE054	1601	U	Nest #1 poor-fair.
6NE056	1608	U	Nest #1 very poor.
February 19, 2025			
6NE039	1004	U	Nest #1 poor-fair. #2-3 fair.
6NE038	1013	U	Nest #1 poor. #2, 5 very poor. #3 fair. #4 only partially seen.
6GE035	1019	U	Nest #1 fair.
6NE037	1026	O	Greenery in nest #1, fair-good. Nest #3 poor.
6GE037	1034	U	Nest #1 fair-good. #2 fair.
6NE036	1053	U	Nest #1 fair-good.

¹Breeding area identification code.

²A=active, F=failed; S=successful; O=occupied; U=unoccupied; N1=One golden eagle in nest area (unoccupied).

Table 9 continued.			
Area ID	Time	Status ¹	Comments
6GE034	1056	U	Nest #1 fair-good. #2-3 fair.
6NE041	1105	N1	Nests #1, 3-4 fair. Adult golden eagle standing in nest #5, no eggs, fair condition. New nest found, poor.
6NE042	1113	U	Nest #1 fair. #2-3 poor.
6NE051	1120	U	Nest #1 very poor, not much left.
6GE018	1127	U	Nests #1-3 fair.
6GE039	1136	A	Golden eagle incubating in new nest #5. Second new nest also found. Nests #1, 4 empty.
6NE099	1150	U	Nest #1 fair. #2 very poor.
6GE002	1311	U	Nests #3-4, 10 poor-fair. #1, 6 poor. #5 not found. #8 fair. #9 poor.
6GE062	1314	U	Nest #1 empty.
6NE094	1330	U	Nest #1 not found. Nest #2 fair.
6NE135	1336	U	Nests #1-2 poor-fair. #3 very poor.
6NE136	1342	U	Nest #1 fair, #2 poor.
6NE134	1350	U	Nest #2 poor-fair. #3 small, empty.
6GE014	1355	U	Nest #1 fair. #2-3 poor.
6NE137	1401	U	Nest #1 poor. #2 empty. #3 poor-fair.
6NE138	1410	U	Nests #1-2 empty. #3-4 fair. #5 poor-fair.
6NE139	1424	U	Nest #1 very poor.
6NE047	1428	U	Nests #1-2 poor.
6NE097	1439	U	Nests #1-2 poor. #3 fair.
6GE046	1450	U	Nest #1 (couldn't see all the way into it). #2, 4 poor. #5-6, 9 fair. #7 poor.
6NE093	1503	U	Nests #1-2 fair.
6NE095	1508	U	Nest #1 fair. New large nest found (#2).
6NE096	1515	U	Nest #1 is gone, no longer exists.
6NE092	1519	U	Not a good survey here. Nest #1 partially seen, poor. #2 (unsure if seen) very poor. #3-4 poor. Saw one other nest (either #5 or #6). Nest #8 not seen completely.
6NE091	1536	U	Nest #1 not found.
6NE090	1538	U	Nest #1 not found. #2-3, 6-7 poor-fair. #4 poor. #5 fair.
6NE087	1551	U	Nests #1-2, 5 fair. #3 poor. Nests #4, 6 not found.
6NE089	1605	U	Nests #1-2 fair-good.
6NE088	1607	U	Saw a large, obvious nest but it was not nest #1.
February 20, 2025			
6NE133	902	U	Nest #1 poor.
6GE047	906	O	Two golden eagles flying low and close to terrain. Nests #1, 3 fair. #4-6 poor-fair. #7 not found.
6NE021	923	U	Nest #1 empty, second nest above it (new #5). Nests #2-3 fair. #4 not found.
6GE028	942	U	Nests #2, 5-9 poor-fair. #3-4 very poor. #10-12 poor. Nest #1 not found.
6NE022	1001	U	Nest #1 fair.
6NE023	1006	U	Nest #1 poor.
6NE132	1015	U	Nest #1 poor-fair. #2-3 fair.

¹Breeding area identification code.

²A=active, F=failed; S=successful; O=occupied; U=unoccupied; N1=One golden eagle in nest area (unoccupied).

Table 9 continued.			
Area ID	Time	Status ¹	Comments
6NE131	1028	U	Nest #1 poor.
6GE001	1032	U	Nests #1, 3 not found. #2 poor.
6GE061	1042	U	Nests #3-4 fair. #5 poor. Saw one or possibly two other nests (either #1 or #2).
6NE086	1101	U	Nest #1 empty.
6NE035	1225	U	Nest #1 fair.
6NE071	1229	U	Nest #2 poor to very poor. #3 poor. Nest #1 not found.
6NE050	1249	O	Nest #1 poor. Pair of golden eagles perched in area.
6NE076	1252	U	Nests #13-15 empty.
6NE049	1256	U	Nest #1 fair.
6GE042	1258	U	Nest #2 fair. #1 not found.
6GE033	1304	U	Golden eagle incubating in new nest #3 (active nest is above #1, hidden by several yucca plants).
6NE046	1316	U	Nest #1 fair.
6GE038	1321	U	Nest #1 fair. #2 poor. #3 poor to very poor.
6GE036	1326	U	Nest #1 poor.
6NE070	1335	U	Nest #1 poor. #2 poor-fair. #3 fair.
6NE069	1345	U	Saw one nest (either #1 or #2), very poor.
February 24, 2025			
3GE041	911	A	Golden eagle incubating in nest #1.
3GE040	916	A	Golden eagle incubating in nest #1.
3GE077	920	U	Nest #1 fair. New large nest found (#2).
3GE042	928	A	Golden eagle incubating in nest #5.
3NE116	933	U	Nest #1 poor.
3GE063	939	O	Some greenery in nest #1, fair. Nest #2 very poor, not much left.
3GE068	948	A	Golden eagle incubating in nest #2.
3GE076	952	U	Nest #1 poor-fair.
3NE061	1001	U	Nest #1 poor-fair (saw a small nest here). #2 not found.
3GE067	1010	U	Nests #1-2 very poor.
3NE112	1018	N1	Nest #1 very poor. One golden eagle perched, flew.
3NE063	1033	U	Nests #1-3 poor.
3GE043	1035	O	Adult golden eagle flew from nest #1, good condition, greenery in nest. Skipped the other nests.
3NE064	1040	U	Nests #1-2 fair. #5 very poor. Nests #3-4, 6 not found.
3GE044	1054	N1	Nests #1-2 fair. #3 very poor. #5-6 not found. One golden eagle perched.
3GE045	1103	U	Nests #1-3 poor-fair.
3GE046	1107	U	Nests #1-2 poor-fair. #3 not found.
3NE059	1110	A	Golden eagle incubating in nest #1.
3GE039	1208	A	Golden eagle incubating in a new nest #3. Nests #1-2 fair.
3NE060	1215	U	Nest #1 fair-good, possibly with greenery. #5-6 fair. Saw one other nest, either #3 or #4 very poor. Nest #2 not found.
3NE106	1226	U	Nest #1 poor.

¹Breeding area identification code.

²A=active, F=failed; S=successful; O=occupied; U=unoccupied; N1=One golden eagle in nest area (unoccupied).

Table 9 continued.			
Area ID	Time	Status ¹	Comments
3GE038	1230	O	Greenery in nest #1, good. #2 poor. #3 not found.
3NE093	1234	A	Golden eagle incubating in nest #1. Nest #3 fair.
3NE092	1239	U	Nests #1, 3 fair. #2 fair-good.
3GE078	1252	O	Nest #1 fair, with some small greenery. One golden eagle flew low and close. Second nest structure on nearby tower.
3NE130	1258	U	Nest #1 empty.
3NE105	1309	O	Greenery in nest #1, good.
3NE128	1314	U	Saw one nest, either #1 or #2, very poor. Nest #3 very poor.
3NE094	1325	U	Nest #1 poor-fair.
3GE071	1328	U	Nest #2 fair-good. Two nests at #3, fair.
3GE037	1337	O	Some greenery in nest #2, fair-good. Nests #1, 3 fair.
February 25, 2025			
3NE095	835	U	Nest #1 fair-good. #2 fair, #3 poor.
3GE060	848	N1	Nest #1 poor. #2 fair (useable). #3 fair. One golden eagle flew from cliffs near #1-2.
3NE085	900	U	Nest #1 poor-fair. #2 not found.
3NE086	907	U	Nest #1 fair.
3GE056	914	U	Nests #1, 3 fair. #2, 4 poor.
3GE055	925	U	Nests #1-2, 4 fair. #3 poor.
3GE081	932	N1	Nest #1 poor-fair. One golden eagle perched in area. New nest #2 found.
3GE008	942	A	Golden eagle incubating in nest #2. Second golden eagle perched nearby.
3NE131	946	U	Nest #1 good, with a little greenery.
3GE007	1004	U	Nests #2-3, 5 fair. #4 poor-fair, falling apart.
3GE080	1009	A	Golden eagle incubating in nest #3. Nest #1 fair. Two nests at #2, poor-very poor.
3GE061	1023	N1	Nest #1 fair-good. #2-3 poor-fair. #4 fair.
3NE087	1028	U	Nest #2 very, very poor. #1 not found.
3NE097	1132	U	Nest #1 fair.
3NE089	1133	U	Nest #1 fair.
3NE088	1137	A	Golden eagle incubating in a new nest (#3). Nests #1-2 empty.
3NE090	1144	U	Nests #1, 3 poor. #2 poor-fair.
3GE066	1153	A	Golden eagle incubating nest #5.
3NE129	1208	U	Nest #1 empty. #2 fair.
3GE079	1211	U	Nest #1 fair.
3GE005	1234	U	Nests #3-4, 7 fair. #5-6 poor-fair. #8 poor. Saw one other nest, either #2 or #9, very poor. Nest #1 not seen.
3NE120	1250	U	Saw one nest, either #1 or #2, poor-fair. Second nest, possibly #3, poor.
3GE057	1253	U	Nest #1 fair. #3 not found. Saw 2 other nests, either #2, 5, or 6. Immature golden eagle flew from the cliff near #1.
3GE006	1303	U	Nest #1 poor-fair. #3 fair-good. Nests #2, 4-5 not found.
3GE065	1310	U	Nests #1-2 fair. #3 poor-fair.

¹Breeding area identification code.

²A=active, F=failed; S=successful; O=occupied; U=unoccupied; N1=One golden eagle in nest area (unoccupied).

Table 9 continued.			
Area ID	Time	Status ¹	Comments
February 26, 2025			
3GE075	834	A	Golden eagle incubating in nest #2. Nests #1, 3 empty. New large nest found.
3GE089	842	U	Nest #1 fair.
3NE098	846	U	[Unable to check nests #2-3 due to windy conditions]. Nest #1 poor. #4 fair.
3NE099	856	A	Golden eagle incubating in nest #1.
3NE091	902	U	Nest #1 poor-fair.
3GE058	907	U	Nests #1, 3-4, 10 poor-fair. #2 poor. #5-6 very poor. #7, 9 fair. #8 not found.
3GE059	932	O	One golden eagle standing in nest #1. Second golden eagle perched on ridge. Nest #3 fair.
3NE114	1001	U	Nest #1 not found.
3GE088	1010	A	Golden eagle incubating in new nest (#1). Second new large nest found. Second golden eagle perched in area.
2GE049	1122	U	Nests #1-2, 4-6 fair.
3GE017	1130	U	Nests #2, 4-5 poor. #3 poor-fair. #6 very poor.
2NE082	1139	U	Nest #1 poor.
2NE081	1144	U	Nest #2 poor. #1 not found.
2GE073	1150	U	Nest #1 fair-good. #2 fair. #3 poor-fair.
2NE070	1201	U	Nest #1 fair, useable. #2 poor. #3 very, very poor.
2GE004	1210	A	Golden eagle incubating in nest #3. Nest #2 poor. Found another large nest on cliff to left of #2 which had greenery in it.
2NE034	1214	A	Golden eagle incubating in nest #2.
2GE052	1219	U	Nest #1 very, very poor, almost nothing left.
2GE050	1226	A	Golden eagle incubating in nest #3. Second golden eagle flying nearby.
2NE088	1242	O	Small bit of greenery in nest #1, fair. Nest #2 fair.
2GE056	1349	U	Nests #1-4. #5 poor. #6 gone.
2NE083	1356	U	Nests #1, 3 poor. #2 poor-fair. #5 very, very poor. Uncertain if #6 was seen, saw a flat nest low. New large nest found, poor condition.
2GE031	1408	U	Nests #1-2 fair. #3 poor.
3GE015	1425	U	Observed a total of at least 5 nests (#1, 3-5, 7), poor.
3NE101	1433	U	Nest #1 very, very poor.
3NE103	1436	U	Nest #1 poor-fair.
3NE102	1441	U	Nest #1 is gone, no longer exists. #2 poor.
February 28, 2025			
3NE100	850	U	Nest #1 poor.
6GE041	907	U	Nests #1-2, 5 fair. Nest #4 not found.
6NE140	914	U	Two new large nests (#1, #2) on cliffs, empty.
6NE075	920	O	Saw either nest #1 or #2 with some greenery. Two golden eagles perched.
6NE024	927	A	Golden eagle incubating in a new nest near #1 (new #8).
6NE025	933	U	Nest #1 fair. #2 poor.
6NE026	938	U	Nest #1 poor-fair.

¹Breeding area identification code.

²A=active, F=failed; S=successful; O=occupied; U=unoccupied; N1=One golden eagle in nest area (unoccupied).

Table 9 continued.			
Area ID	Time	Status ¹	Comments
6NE028	942	U	Nest #1 poor. #2 fair.
6NE031	950	U	Nest #1 not found.
6NE032	1002	U	Nest #1 fair.
6NE098	1010	N1	Nest #1 very poor. #2 not seen. One golden eagle flew from tree near the cliff where #2 should have been.
6NE034	1022	O	Nest #1 fair-good with a couple sprigs of greenery.
6NE045	1030	U	Nest #1 not found.
6NE030	1035	U	Nests #1-3 poor to very poor.
6NE029	1040	U	Nest #1 fair. #5 poor. Nests #2-4 not found.
6GE032	1048	U	Nest #1 very, very poor. #2 poor.
6NE033	1131	U	Nest #1 poor. #4 not found. Saw one other nest (#2?).
6GE031	1138	U	Nests #1-2 poor-fair. #3 fair. #4-5 not found.
6NE019	1143	N1	Nests #1, 3 fair. #2, 4-6 not found. Saw one other nest around #7. One golden eagle perched in area.
2NE086	1154	U	Nest #1 not found.
6NE130	1211	U	Nests #1-2 poor.
6GE029	1217	A	Golden eagle incubating in nest #4.
3GE062	1227	O	Nest #1 good, with some greenery. #2 poor-fair. One golden eagle perched near nest #2.
March 14, 2025			
2GE049	849	U	All known nests empty. No eagles.
3GE017	855	U	All known nests empty. No eagles.
2GE031	906	U	All known nests empty. No eagles.
March 25, 2025			
6NE056	1036	U	Nest #1 fair.
6NE057	1044	U	Red-tailed hawk incubating in nest #2.
6GE025	1047	U	Nest #2-3, 11 poor-fair. #5, 8-9 fair. #10, 12 poor. #14 fair. Nests #4, 7 not found.
6NE058	1105	U	Nest #1 poor.
6NE061	1110	U	Nest #1 poor-fair. #2 not found.
6NE059	1115	U	Nest #1 not found.
6NE060	1119	U	Nests #1, 3-4 fair. #2 not found. #5 poor.
6GE030	1129	O	Nest #1 good, with greenery.
6NE062	1133	U	Nest #1 not found.
6NE067	1136	U	Nest #1 fair. #2 poor.
6NE074	1140	U	Nest #1 very poor.
6NE064	1142	U	Nest #1 poor. #2 fair-good.
6NE066	1145	U	Nest #2 fair-good. Nest #1 not found.
6NE065	1150	U	Nest #1 fair. #3 poor. #2 very poor.
6NE016	1154	U	Nests #1-2 poor-fair. #3 fair.
6NE044	1158	U	Nest #1 poor-fair.
6GE035	1207	U	Nest #1 very poor.
6NE038	1209	U	Nests #1, 3-4 fair. Nests #2, 5 very poor.

¹Breeding area identification code.

²A=active, F=failed; S=successful; O=occupied; U=unoccupied; N1=One golden eagle in nest area (unoccupied).

Table 9 continued.			
Area ID	Time	Status ¹	Comments
6NE039	1213	U	Nests #1-3 fair. #4 not checked.
6NE037	1223	A	Golden eagle incubating in nest #1.
6GE037	1230	U	Nest #1 fair. #2 poor-fair.
6GE034	1331	U	Nest #1 good. #2 poor-fair. #3 fair.
6NE036	1335	U	Nest #1 fair-good.
6NE041	1344	A	Golden eagle incubating in nest #5.
6NE042	1347	U	Nest #1-3 fair. New large nest found (#4).
6GE036	1404	A	Golden eagle incubating in new nest on cliff. Nest #1 poor.
6NE070	1407	U	Nest #1 very poor. #2 poor. #3 fair.
6NE069	1414	U	Nest #1 very poor.
6NE035	1420	U	Nest #1 fair.
6NE071	1425	U	Nests #2-3 very poor. #1 not found.
6GE018	1443	U	Nests #1-2 poor-fair. #3 fair.
6NE051	1449	U	Nest #1 very poor.
6NE052	1458	N1	Nest #5 fair-good. #6 poor. #7 empty. #8 poor-fair. One golden eagle nearby.
6NE055	1509	U	Nests #1-2 poor-fair. Probable hawk nests.
6NE072	1512	U	Nests #1-3 fair.
6NE054	1516	U	Nest #1 fair.
March 26, 2025			
6NE080	1248	U	Nests #1, 3 fair. #2 poor.
6NE082	1257	U	Nest #1 poor.
6NE079	1301	A	Golden eagle incubating in nest #2.
6GE045	1310	U	Nests #1-6 fair.
6GE027	1317	U	Nests #1-2 fair.
6NE077	1322	U	Nest #1 poor.
6NE068	1327	U	Nest #2 empty. #3 fair. #4 poor-fair. #5 poor. Nest #1 not found.
6GE040	1333	U	Nests #1, 5 poor. #2, 4 fair. New nest found on cliff.
6NE078	1342	U	Nests #1, 3 poor-fair. #2 poor. Some new-looking nest materials in nest #1.
6GE043	1347	A	Golden eagle incubating in nest #2. Second golden eagle flying.
6NE081	1355	U	Nest #1 not found.
6GE044	1400	A	Golden eagle incubating in nest #1.
6NE083	1406	U	Nests #1-2 fair.
6GE026	1414	U	Nests #1-2 very poor. 3 poor.
6NE087	1421	O	Nests #1-2 fair. #3 poor-fair. #4, 6 empty. #5 fair. Two golden eagle perched on cliff.
6NE089	1431	A	Golden eagle incubating in new nest on cliff (#3).
6NE088	1433	U	Nest #1 fair, lots of whitewash, well-used.
6GE062	1436	U	Nest #1 fair.
6GE002	1438	A	Golden eagle incubating in nest #10. Nests #1, 3-4, 8-9 empty.
6NE135	1532	U	Nests #1-3 poor.
6NE136	1538	U	Saw one nest, poor condition, not sure which one.

¹Breeding area identification code.

²A=active, F=failed; S=successful; O=occupied; U=unoccupied; N1=One golden eagle in nest area (unoccupied).

Table 9 continued.			
Area ID	Time	Status ¹	Comments
6NE134	1542	U	Nest #1 poor-fair. #2 fair. #3 not found.
6GE014	1549	U	Nests #2-3 poor. #1 fair.
6NE137	1553	U	Nests #1, 3 fair. #2 poor-fair.
6NE047	1608	U	Nests #1-2 poor.
6NE138	1613	U	Nests #1-2, 4-5. Red-tailed hawk incubating in nest #3.
6NE097	1625	U	Nests #1-2 very poor. #3 empty.
6NE094	1634	U	Nest #1 fair. #2 poor-fair.
March 27, 2025			
6GE061	830	U	Nests #1-4 fair. #5 poor.
6NE131	834	U	Nest #1 poor.
6GE001	841	U	Nest #2 poor. Nests #1, 3 not found.
6NE132	854	U	Nests #1, 3 poor. #2 fair.
6NE141	903	U	New nest found (#1).
6NE142	907	U	Five new large nests found on cliff (#1-5).
6NE143	913	U	Three new large nests found on cliffs (#1-3).
6NE023	920	U	Nest #1 poor-fair.
6NE022	925	U	Nest #1 fair.
6GE028	935	A	Golden eagle incubating in new nest on cliff.
6NE021	945	U	Nest #1 fair. #2 poor-fair. #3 poor. #4 not found.
6GE047	1000	U	Nests #1-2 fair. #3-6 poor-fair. #7 poor.
6NE086	1020	U	Nest #1 fair.
6NE090	1134	U	Nests #2, 4-5 fair. #3, 6-7 poor. Nest #1 not found.
6NE091	1144	U	Nest #1 not found.
6NE092	1148	U	Nest #1 (saw remnants of a nest). #3, 5 fair. #4 poor-fair. #6 empty. Nests #2 and #7 not found.
6NE096	1158	U	Nest #1 poor.
6NE095	1202	U	Nests #1-2 fair.
6NE133	1209	U	Nest #1 very poor.
6NE093	1216	U	Nest #1 poor. #2 fair.
6GE046	1220	U	Nests #1, 5, 9 fair. #2, 3 skipped. #4, 7 very poor. #6 poor. Nest #8 not found.
April 1, 2025			
3GE040	954	A	Golden eagle incubating in nest #1.
3GE041	958	A	Golden eagle incubating in nest #1.
3GE042	1003	F	Two eggs in nest. No eagles. Not sure if failed or nest exchange was happening (presumed failed).
3GE077	1010	A	Golden eagle incubating in new nest on cliff. Nest #1 empty.
3GE063	1014	A	Golden eagle incubating in nest #1.
3GE068	1018	A	Golden eagle incubating or brooding in nest #2.
3GE076	1022	N1	Nest #1 not maintained. One golden eagle perched on peak. No other nests found.
3NE061	1044	U	Nests #1-2 not found.
3NE067	1051	U	Nest #1 very poor. #2 not found.

¹Breeding area identification code.

²A=active, F=failed; S=successful; O=occupied; U=unoccupied; N1=One golden eagle in nest area (unoccupied).

Table 9 continued.			
Area ID	Time	Status ¹	Comments
3NE112	1056	U	Nest #1 very, very poor.
3NE063	1111	A	Golden eagle incubating or brooding in nest #3.
3GE043	1116	N1	Golden eagle standing in nest #3, empty. Nest #1 fair-good. Nests #2, 4-6 poor.
3NE064	1127	A	Golden eagle incubating in nest #2.
3GE044	1130	U	Nest #1 good. #2 fair. #3, 5 very poor. #6 poor.
3GE045	1138	A	Golden eagle incubating in nest #1.
3GE046	1144	U	Nests #1-2 poor. #3 not found.
3NE059	1147	A	Golden eagle incubating in nest #1.
3GE039	1240	A	Golden eagle incubating in new nest on cliff.
3NE060	1245	N1	Nest #1 good. #5 poor. Nests #2-4 not found. One golden eagle perched.
3GE038	1258	U	Nest #1 fair.
3NE092	1303	U	Nest #1 poor-fair. #2 fair. #3 empty.
3NE094	1318	U	Nest #1 poor.
3GE078	1323	A	Golden eagle incubating in nest #1 on tower.
3NE105	1334	A	Golden eagle incubating in nest #1. One immature golden eagle flying just above the nest.
3NE128	1338	U	Nest #1 poor-fair.
3GE037	1347	A	Golden eagle incubating in nest #2.
April 2, 2025			
3NE095	907	U	Nest #1 fair-good. #2-3 poor.
2GE049	919	U	Nests #1-2, 4-6 fair.
3GE017	927	U	Nests #2, 4-5 poor. #3 fair.
April 3, 2025			
3NE129	739	U	Nest #1 poor-fair. #2 fair.
3GE079	743	U	Nest #1 fair.
3GE011	747	A	Golden eagle incubating in nest #11.
3GE065	753	U	Nests #1-2 fair. #3 poor.
3NE120	755	U	Nest #1 fair. #2 poor. #3 empty.
3GE005	800	U	Nest #1 poor. #3-4 fair.
3GE057	807	U	Saw at least 2 nests at #2, 5-6. Skipped #3 (not found last survey).
3GE006	813	U	Saw a small nest at #1. Unable to survey well, did not see other nests.
3NE131	826	N1	Nest #1 fair-good. One golden eagle flying low nearby.
3GE007	837	U	Nests #2-3, 5 fair. Skipped #4.
3NE084	847	U	Saw 2 nests, unsure which ones (possibly #1, 4, or 5).
3GE056	853	U	Nests #1-3 fair. #4 not found.
3GE060	902	U	Nests #1-2 poor-fair. #3 empty.
April 17, 2025			
6GE002	813	F	Nest #10 empty, failed.
April 23, 2025			
3GE089	852	U	Nest #1 empty, fair.

¹Breeding area identification code.

²A=active, F=failed; S=successful; O=occupied; U=unoccupied; N1=One golden eagle in nest area (unoccupied).

Table 9 continued.			
Area ID	Time	Status ¹	Comments
3NE098	906	A	Golden eagle incubating in new nest on cliff. Second golden eagle flying. Nests #2-4 empty. #1 not found.
3GE058	914	U	Nests #1-2, 10 poor. #3, 7, 9 fair. #5 poor-fair. #6 almost nothing left. Nest #8 not found.
3GE059	914	A	Adult golden eagle feeding two small nestlings, 1-2 weeks old.
3NE090	936	U	Nest #2 fair. #3 poor-fair. #1 not found (may have been remnants of a nest on a ledge).
3NE089	946	U	Nest #1 fair. Several medium nests here too.
3NE097	948	U	Nest #1 fair.
3NE088	953	A	One golden eagle nestling, 3 weeks old.
3NE087	957	U	Nest #2 very poor. #1 not found.
3GE061	1001	F	One unattended egg in nest #1. No eagles seen. Failed.
3GE081	1015	U	Nest #1 fair. Nest #2 empty.
3GE055	1023	U	Nests #1, 3 fair. #2, 4 poor.
3GE071	1042	U	Nest #2 fair. #3 poor. Another nest on cliff to right of #3, open ledge, empty.
3GE078	1049	F	Nest empty, failed.
2GE073	1106	U	Nest #1 fair. #2-3 poor-fair.
2NE070	1113	U	Nest #1 fair. #2 poor-fair (very hard to see, behind shrub).
2GE004	1122	A	One golden eagle nestling, 3.5 weeks old.
2GE052	1129	U	Nest #1, nothing there (nest has completely deteriorated).
2NE088	1142	A	Golden eagle incubating in nest #2.
2GE056	1447	U	Nests #1-2 fair. #6 poor. Saw one other nest (either #3, 4, or 5 -winds were bad, hard to survey).
April 24, 2025			
3NE102	843	U	Nests #1-2 very poor, not much left.
3GE015	848	U	Nests #1, 4, 7 poor-fair. There are two other nests here, both poor-fair (#3, 5).
3NE101	852	U	Nest #1 very poor, not much left.
3NE103	857	U	Nest #1 fair.
3GE062	901	U	Nest #1 fair. #2 poor.
6GE029	908	F	Nest empty, failed. Lots of greenery.
6NE130	911	U	Nest #1 poor-fair. #2 - nothing there.
6NE098	923	U	Nest #1 very poor. #2 very, very poor.
6NE032	930	U	Nest #1 fair-good.
6NE034	939	F	Nest #1 good. One egg in nest, unattended, partially covered by nest materials.
6NE045	944	U	Saw what looked like the remains of a nest on a ledge at #1.
6NE030	950	U	Nests #1-3, very poor-poor.
6NE029	954	U	Nest #1 fair. #5 poor-fair. #2-4 not found.
6NE033	1004	U	Nest #1 poor-fair. #2 fair. Nests #3-4 not found.
6GE031	1012	U	Nests #1-2 poor. #3 fair. Nests #4-5 not found.

¹Breeding area identification code.

²A=active, F=failed; S=successful; O=occupied; U=unoccupied; N1=One golden eagle in nest area (unoccupied).

Table 9 continued.			
Area ID	Time	Status ¹	Comments
6NE019	1019	U	Nests #1, 7 fair. #2 poor-fair. #3 poor. #6 fair. Nests #4-5 not found.
2NE086	1030	U	Nest #1 not found.
6GE032	1040	U	Nests #1-2 poor.
6GE038	1137	U	Nests #1, 3 fair. #2 very poor.
6NE046	1148	A	Red-tailed hawk incubating in nest #1.
6GE033	1157	A	One nestling, 2-3 weeks old.
6GE042	1159	U	Nest #2 fair. #1 not found.
6NE049	1204	U	Nest #1 fair.
6NE076	1210	U	Nests #13-15 empty.
6NE050	1215	U	Nest #1 poor.
6NE027	1224	U	Nest #2 empty. #1 not found.
6NE031	1231	U	Nest #1 fair.
6NE028	1237	U	Nests #1-2 fair.
6NE026	1242	U	Nest #1 poor-fair.
6NE025	1247	U	Nest #1 fair. #2 poor.
6NE024	1253	F	Nest empty, failed.
6NE075	1301	A	Golden eagle incubating or brooding in nest #2. Nest #1 empty.
6GE041	1304	U	Nest #1 poor-fair. #2, 5 fair. #4 not found.
6NE140	1314	U	Nests #1-2 fair.
3NE100	1329	A	One golden eagle nestling, 3-3.5 weeks old in new nest (#2). Second new nest found (#3). One adult golden eagle flew and perched on ridge top.
3NE114	1334	U	Nest #1 not found.
3GE088	1340	F	Nest empty, failed. Lots of greenery.
May 29, 2025			
6GE039	932	A	Two nestlings, one at 6.5 weeks and one at 7 weeks old.
6NE089	955	F	Nest empty. Failed.
6GE028	1015	A	One nestling, 5.5-6 weeks old.
6GE043	1043	F	Nest empty. Failed.
6GE044	1050	A	One nestling, 6.5 weeks old.
6NE079	1053	A	One nestling, 6.5+ weeks old.
6NE037	1222	F	Nest empty. Failed.
6NE041	1228	F	Nest empty. Failed.
6GE036	1238	F	Nest empty. Failed.
6GE033	1251	S	One nestling, 8 weeks old.
3NE100	1309	S	One nestling, 8 weeks old.
6NE075	1321	A	One nestling, 5 weeks old (off on the ledge to the side of nest behind a rock).
May 30, 2025			
3GE075	854	F	Nest empty. Failed.
3NE099	859	A	One nestling, 6.5-7 weeks old.
3NE098	905	F	Two unattended eggs in nest. Failed.
3GE059	913	F	Nest empty. Failed.

¹Breeding area identification code.

²A=active, F=failed; S=successful; O=occupied; U=unoccupied; N1=One golden eagle in nest area (unoccupied).

Table 9 continued.			
Area ID	Time	Status ¹	Comments
3NE088	924	S	One nestling, 8 weeks old.
3GE066	934	S	One nestling, 9+ weeks old.
3GE080	941	S	One nestling, 9+ weeks old.
3GE011	950	F	Nest empty. Failed.
3GE008	958	F	Nest empty. Failed.
3NE105	1011	F	Nest empty. Failed.
3NE093	1025	F	Nest empty. Failed.
2GE004	1034	S	One nestling, 8.5-9 weeks old.
2NE088	1039	F	Nest empty. Failed.
2NE034	1148	A	One nestling, 7 weeks old.
2GE050	1157	S	One nestling, 8-9 weeks old.
3GE041	1209	F	Nest empty. Failed.
3GE040	1216	S	Two nestlings, 8 weeks old.
3GE042	1221	F	Nest empty. Failed.
3GE077	1225	F	Nest empty. Failed.
3GE068	1237	S	One nestling, 7.5-8 weeks old.
3GE063	1241	A	Two nestlings, 3-3.5 weeks old.
3NE063	1250	F	Nest empty. Failed.
3NE064	1256	F	Nest empty. Failed.
3GE045	1301	U	Nest #1 not seen.
3NE059	1307	F	Two unattended eggs in nest. Failed.
3GE037	1312	F	Nest empty. Failed.
3GE039	1320	F	Nest empty. Failed.
June 11, 2025			
6GE039	914	S	Two nestlings, 8.5 weeks old. One laying down and one standing on nest ledge to right.
6GE028	940	S	One nestling, ~7.5 weeks old.
6GE044	958	S	One nestling, 8.5 weeks old. Laying down in nest.
6NE079	1001	S	One nestling on ledge by nest, 7.5-8 weeks old.
2NE034	1058	S	One nestling standing in nest, 8.5-9 weeks old.
3GE045	1120	F	Nest #1 empty. Two adult golden eagles in area.
3NE099	1153	S	One nestling laying down in nest, 8.5 weeks old.
6NE075	1208	A	One nestling, 7 weeks old. One adult also in nest (possibly feeding the nestling).
June 17, 2025			
6NE075	--	S	One nestling, 8 weeks old.
July 7, 2025			
3GE063	1836	S	One nestling standing in nest, 8.5-9 weeks old. Scanned cliff, rocks, and ground near nest but did not see a second juvenile. One adult flying in area.

¹Breeding area identification code.

²A=active, F=failed; S=successful; O=occupied; U=unoccupied; N1=One golden eagle in nest area (unoccupied).

APPENDIX C: 2025 GOLDEN EAGLE PRODUCTIVITY

Table 10. Arizona golden eagle breeding area productivity, 2025 (continued next page).								
Area ID	Nest	Status	Incubation Range	Eggs	Hatch Range	Hatched	Fledge Range	Fledged
2GE004	3	S	<2/26	1	2/26-4/23	1	>5/30	1
2GE031	--	U	All known nests empty. No eagles.					
2GE049	--	U	All known nests empty. No eagles.					
2GE050	3	S	<2/26	1	2/26-5/30	1	>5/30	1
2GE052	--	U	All known nests empty. No eagles.					
2GE056	--	U	All known nests empty. No eagles.					
2GE073	--	U	All known nests empty. No eagles.					
2NE034	2	S	<2/26	1	2/26-5/30	1	>6/11	1
2NE070	--	U	All known nests empty. No eagles.					
2NE088	2	F	2/26-4/23	1	Failed 4/23-5/30.			
3GE005	--	U	All known nests empty. No eagles.					
3GE006	--	U	All known nests empty. No eagles.					
3GE007	--	U	All known nests empty. No eagles.					
3GE008	2	F	<2/25	1	Failed 2/25-5/30.			
3GE011	11	F	<4/3	1	Failed 4/3-5/30.			
3GE015	--	U	All known nests empty. No eagles.					
3GE017	--	U	All known nests empty. No eagles.					
3GE037	2	F	2/24-4/1	1	Failed 4/1-5/30.			
3GE038	--	O	Greenery in nest #1.					
3GE039	3	F	<2/24	1	Failed 4/1-5/30.			
3GE040	1	S	<2/24	2	4/1-5/30	2	>5/30	2
3GE041	1	F	<2/24	1	Failed 4/1-5/30.			
3GE042	5	F	<2/24	1	Failed 4/1-5/30.			
3GE043	--	O	Greenery in nest #1. One golden eagle in area.					
3GE044	--	U	All known nests empty. One golden eagle in area.					
3GE045	1	F	2/24-4/1	1	Failed 4/1-6/11.			
3GE046	--	U	All known nests empty. No eagles.					
3GE055	--	U	All known nests empty. No eagles.					
3GE056	--	U	All known nests empty. No eagles.					
3GE057	--	U	All known nests empty. No eagles.					
3GE058	--	U	All known nests empty. No eagles.					
3GE059	1	F	2/26-4/23	2	2/26-4/23	2	Failed 4/23-5/30.	
3GE060	--	U	All known nests empty. One golden eagle in area.					
3GE061	1	F	2/25-4/23	1	Failed 2/25-4/23.			
3GE062	--	O	Greenery in nest #1. One golden eagle in area.					
3GE063	1	S	2/24-4/1	2	4/1-5/30	2	>7/7	2
3GE065	--	U	All known nests empty. No eagles.					

¹Breeding area identification code.

²A=active, F=failed; S=successful; O=occupied; U=unoccupied.

³Represents minimum number of eggs laid.

Table 10 continued.								
Area ID	Nest	Status	Incubation Range	Eggs	Hatch Range	Hatched	Fledge Range	Fledged
3GE066	5	S	<2/25	1	2/25-5/30	1	>5/30	1
3GE068	2	S	<2/24	2	4/1-5/30	2	>5/30	2
3GE071	--	U	All known nests empty. No eagles.					
3GE075	2	F	<2/26	1	Failed 2/26-5/30.			
3GE076	--	U	All known nests empty. One golden eagle in area.					
3GE077	2	F	2/24-4/1	1	Failed 4/1-5/30.			
3GE078	1	F	2/24-4/1	1	Failed 4/1-4/23.			
3GE079	--	U	All known nests empty. No eagles.					
3GE080	3	S	<2/25	1	2/25-5/30	1	>5/30	1
3GE081	--	U	All known nests empty. One golden eagle in area.					
3GE088	1	F	<2/26	1	Failed 2/26-4/24.			
3GE089	--	U	All known nests empty. No eagles.					
3NE059	1	F	<2/24	1	Failed 4/1-5/30.			
3NE060	--	U	All known nests empty. One golden eagle in area.					
3NE063	3	F	2/24-4/1	1	Failed 4/1-5/30.			
3NE064	2	F	2/24-4/1	1	Failed 4/1-5/30.			
3NE088	3	S	<2/25	1	2/25-4/23	1	>5/30	1
3NE092	--	U	All known nests empty. No eagles.					
3NE093	1	F	<2/24	1	Failed 2/24-5/30.			
3NE094	--	U	All known nests empty. No eagles.					
3NE095	--	U	All known nests empty. No eagles.					
3NE098	5	F	<4/23	2	Failed 4/23-5/30.			
3NE099	1	S	<2/26	1	2/26-5/30	1	>6/11	1
3NE100	2	S	2/28-4/24	1	2/28-4/24	1	>5/29	1
3NE101	--	U	All known nests empty. No eagles.					
3NE103	--	U	All known nests empty. No eagles.					
3NE105	1	F	2/24-4/1	1	Failed 4/1-5/30.			
6GE001	--	U	All known nests empty. No eagles.					
6GE002	10	F	2/19-3/26	1	Failed 3/26-4/17.			
6GE014	--	U	All known nests empty. No eagles.					
6GE018	--	U	All known nests empty. No eagles.					
6GE027	--	U	All known nests empty. One golden eagle in area.					
6GE028	13	S	2/20-3/27	1	3/27-5/29	1	>6/11	1
6GE029	4	F	<2/28	1	Failed 2/28-4/24.			
6GE030	--	O	Greenery in nest #1.					
6GE031	--	U	All known nests empty. No eagles.					
6GE032	--	U	All known nests empty. No eagles.					
6GE033	3	S	>2/20	1	2/20-4/24	1	>5/29	1
6GE034	--	U	All known nests empty. No eagles.					

¹Breeding area identification code.

²A=active, F=failed; S=successful; O=occupied; U=unoccupied.

³Represents minimum number of eggs laid.

Table 10 continued.								
Area ID	Nest	Status	Incubation Range	Eggs	Hatch Range	Hatched	Fledge Range	Fledged
6GE035	--	U	All known nests empty. No eagles.					
6GE036	5	F	2/20-3/25	1	Failed 3/25-5/29.			
6GE037	--	U	All known nests empty. No eagles.					
6GE038	--	U	All known nests empty. No eagles.					
6GE039	5	S	<2/19	2	5/19-5/29	2	>6/11	2
6GE040	--	U	All known nests empty. No eagles.					
6GE041	--	U	All known nests empty. No eagles.					
6GE042	--	U	All known nests empty. No eagles.					
6GE043	2	F	2/18-3/26	1	Failed 3/26-5/29.			
6GE044	1	S	<3/26	1	3/26-5/29	1	>6/11	1
6GE045	--	U	All known nests empty. No eagles.					
6GE046	--	U	All known nests empty. No eagles.					
6GE047	--	O	Pair of golden eagles in the area.					
6GE061	--	U	All known nests empty. No eagles.					
6GE062	--	U	All known nests empty. No eagles.					
6NE016	--	U	All known nests empty. No eagles.					
6NE019	--	U	All known nests empty. One golden eagle in area.					
6NE024	8	F	<2/28	1	2/28-4/24			
6NE028	--	U	All known nests empty. No eagles.					
6NE034	1	F	2/28-4/24	1	Failed 2/28-4/24.			
6NE036	--	U	All known nests empty. No eagles.					
6NE037	1	F	2/19-3/25	1	Failed 3/25-5/29.			
6NE038	--	U	All known nests empty. No eagles.					
6NE039	--	U	All known nests empty. No eagles.					
6NE041	5	F	2/19-3/25	1	Failed 3/25-5/29.			
6NE045	--	U	All known nests empty. No eagles.					
6NE050	--	O	Pair of golden eagles in the area.					
6NE052	--	U	All known nests empty. One golden eagle in area.					
6NE060	--	U	All known nests empty. No eagles.					
6NE067	--	U	All known nests empty. No eagles.					
6NE068	--	U	All known nests empty. No eagles.					
6NE070	--	U	All known nests empty. No eagles.					
6NE075	2	S	2/28-4/24	1	4/24-5/29	1	>6/11	1
6NE076	--	U	All known nests empty. No eagles.					
6NE079	2	S	2/18-3/26	1	3/26-5/29	1	>6/11	1
6NE087	--	O	Pair of golden eagles in the area.					
6NE089	3	F	2/19-3/26	1	Failed 3/26-5/29.			
6NE092	--	U	All known nests empty. No eagles.					

¹Breeding area identification code.

²A=active, F=failed; S=successful; O=occupied; U=unoccupied.

³Represents minimum number of eggs laid.