

# Peregrine Falcon Annual Report 2023

# **February 1, 2024**





#### **Project Description**

**Title:** Peregrine Falcon HCP Monitoring

**Purpose:** Habitat Conservation Plan (HCP) monitoring

Date Initiated: March 1999

Projected End Date: Ongoing

Manager: Brad Mauney, Lead Biologist

#### **Executive Summary:**

During the 2023 Peregrine falcon breeding season we conducted surveys for Peregrine falcon activity at nine total sites, including eight known eyries (nests) at Scotia Bluffs, Holmes Bluff, Tom Gulch, Shively Bluff, South and West Runenburg, Clapp Ridge, and McCready Ridge In addition, we surveyed a potential cliff nest within the Stitz Creek watershed.

Surveys were to monitor the eyries for nesting activity, monitor the nests during timber operations, or to confirm fledging of juveniles prior to commencement of timber operations or road work within 0.5-mile of a nesting area. The Tom Gulch snag has also been used by ospreys and northern spotted owls for nesting in the past, and so the snag was monitored for potential nesting activity by those species as well. The West Runenburg, Scotia Bluff, Holmes Bluff, and Clapp Ridge nests were occupied in 2023. The Clapp Ridge and Scotia Bluffs had Peregrine presence, but no observations of nesting activity. No Peregrine activity was observed at the South Runenburg, Stitz Creek, McCready Ridge, Tom Gulch, or Shively Bluff territories. There were Peregrine fledglings produced at the West Runenburg and Holmes Bluff eyries.

No changes in the HCP Peregrine falcon monitoring strategy are recommended at this time.

# **Project Manager / Primary Author**

Brad S. Mauney

**Brad Mauney** 

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## PROJECT DOCUMENT DISTRIBUTION LIST

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#### INTRODUCTION

The American Peregrine falcon (*Falco peregrinus anatum*) is a covered species under the HRC HCP. The species was formerly listed as endangered under the California State Endangered Species Act and under the Federal Act but has been found to be recovered and delisted pursuant to both the State and Federal Acts. It is also a Board of Forestry Sensitive Species, and a California Fully Protected Species. The objective of surveying for Peregrine falcons on HRC lands is to survey traditional (known) and potential nest sites and adjacent habitat if timber operations are to occur within 0.5 mile (conventional operations), or 1.0 mile (e.g., helicopter operations), and to apply HCP nest site protection measures when necessary to ensure a high probability of successful nesting.

#### **METHODS**

Surveys were conducted according to section 6.5.2.1 of HRC's HCP, the Mutually Agreed Upon Peregrine Falcon Survey Language (as modified, Appendix I) and followed guidelines in both the Protocol for Observing Known and Potential Peregrine Falcon Eyries in the Pacific Northwest (Pagel 1992), and the U.S. Fish and Wildlife Monitoring Protocol (USFWS 2003). Additional nest spot checks or additional surveys may be done to establish whether a site is active, occupied, or to assess nesting success if applicable. These spot checks or additional surveys are assigned by the Lead Biologist as necessary.

Monitoring of nesting status only was conducted at the Tom Gulch, Scotia Bluffs, Runenburg, , McCready Ridge and Clapp Ridge sites as no timber operations were planned within the appropriate disturbance minimization buffers. Timber operations occurred outside the breeding season within the 0.5-mile buffers on the Holmes Bluff and Shively Bluff sites in 2023. The Stitz Creek potential nest cliff was surveyed due to potential timber operations within 0.5-mile, however no operations occurred during the 2023 season. Survey locations, dates, associated THPs, and status results for 2023 surveys are shown in Table 1.

**Table 1.** 2023 Peregrine falcon survey schedule.

Known Eyrie Location	Associated THP (name, #)	Visit 1 Date	PEFA activity?	Visit 2 Date	PEFA activity?	Visit 3 Date	PEFA activity?	Additional Reproductive Visit Date	PEFA activity?
Tom Gulch	Monitor only	5/2/2023	NC	5/30/2023	NC	-	-	-	-
Scotia Bluffs	Monitor only	5/8/2023	NC	6/5/2023	NC	6/29/2023	U	-	-
Holmes Bluff	Mid Shively (22-00159)	4/24/2023	PN	5/24/2023	NC	6/13/2023	PN	7/5/2023	PN2J
Shively Bluff	Mid Shively (22-00159)	4/28/2023	NC	5/23/2023	NC	6/19/2023	NC	-	1
South Runenburg	Monitor only	5/4/2023	NC	-	-	-	-	-	-
West Runenburg	Monitor only	5/17/2023	PN	6/12/2023	PN1J	7/7/2023	PN		
McCready Ridge	Monitor only	5/3/2023	NC	5/31/2023	NC	1	-	-	-
Clapp Ridge	Monitor only	5/2/2023	NC	5/30/2023	PU	6/28/2023	NC	-	-
Stitz Creek	Stitz in Time (20- 00035)	4/25/2023	NC	5/22/2023	NC	6/16/2023	NC	-	-

NC = no contact, U = unknown status, F = Female, M = Male, PN = pair nesting, PNJ = pair with juvenile(s), PNN = pair not nesting, PU = pair unknown, PF = pair failed, SA = sub adult, NA = Not applicable.

## **RESULTS**

The West Runenburg and Holmes Bluff nests were occupied in 2023. Two fledglings were produced at Holmes and one fledgling was produced at West Runenburg (Table 2). The Scotia Bluff and Clapp Ridge territories had Peregrine presence but there were no observations of nesting activity. No Peregrine activity was observed at the Tom Gulch, Shively Bluff, South Runenberg, or McCready Ridge territories, nor at the Stitz Creek potential nest cliff.

2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 **Eyries** PN2J PN2J PN2J Scotia Bluffs PN1J PNF PN2J U PN2J PN2J PN1J PN2J PN3J U PU Holmes Bluff ΡU PN2J PN2J PN1J PU PN2J PN3J PU PN3J PU PU PN1J PΝ PN2J Shively Bluff PU PN2J PN3J PN2J PN3J ΡU NC NC NC NC NC NC NC Tom Gulch Snag NC ΡU NC S. Runenburg NC ΡU NC NC PN2J NC PN2J U PN3J PU PNN W. Runenburg PN1J PN2J PNN U NC NC McCready Ridge PΝ PU PN2J U U NC Clapp Ridge PN2J PN2J U PN2J PN2J PU Stitz Creek PNN NC NC

**Table 2.** Status of HRC Peregrine falcon eyries 2010 - 2023 (if known).

NC = no contact, U = unknown status, PN = pair nesting, PNJ = pair with juvenile(s), PNN = pair not nesting, PU = pair unknown, PF = pair failed, SA = subadult.

No operations were conducted within the 0.5-mile buffer of occupied nests during the breeding season, with the exception of the McCready Ridge historic nest tree, which had surveys concurrent with operations as per HCP language. No falcons were observed on the first survey on 10 May, and operations were completed before the second survey was conducted on 29 and 30 June.

Regarding long-term trends in nesting information, in past annual reports we have presented data from 1999 to the current year. In consideration of space, ease of reporting, and because we have found seven additional eyries since 1999, we are currently reporting data collected from 2010 to the present.

The percent of known territories occupied in 2023 was 50%, which was the same percent of occupied territories as 2022 but a marked decrease from the 2021 season (87.5%), with a mean of 71.6% over the period 2010 - 2023 (Figure 1). The reproductive rate (measured as number of juveniles per occupied territory) was 0.75 in 2023, a slight decrease from 1.0 in 2022, , with a mean of 1.17 over the period 2010 - 2023 (Figure 2).

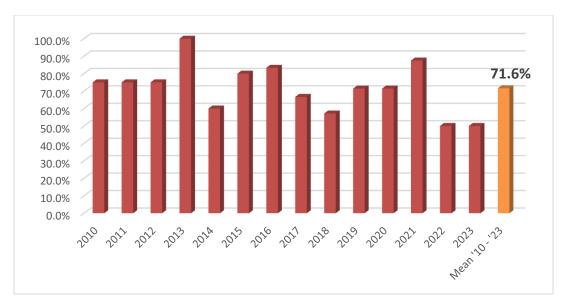


Figure 1. Percent of HRC territories occupied and mean 2010 - 2023.

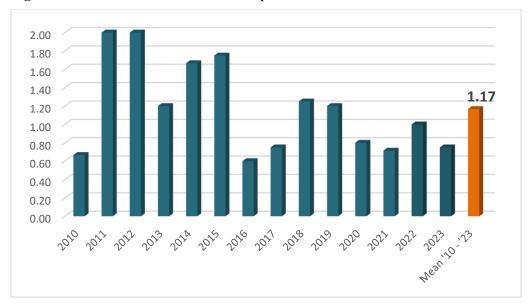


Figure 2. Reproductive rate for HRC occupied territories and mean 2010 - 2023.

## **DISCUSSION AND RECOMMENDATIONS**

Occupancy and reproduction for the now eight known Peregrine falcon territories on or adjacent to HRC lands continues to be relatively high over the past 14 seasons. Of the known Peregrine falcon territories monitored during the 2023 season, four sites were occupied (50% occupancy). Shively Bluff, Tom Gulch, South Runenburg and McCready Ridge were not occupied, and there was visual contact with no nesting atScotia Bluffs and Clapp Gulch. At least three juvenile

Peregrines were produced (West Runenburg and Holmes) for a reproductive rate of 0.75 young per occupied territory.

There were no operations within 0.5 mile of any of the occupied eyries, with the exception of use of the Shively Road, as discussed in the CDFW property-wide consultation language. There were no HRC operations within 1.0 mile such as helicopter yarding, blasting, or pile driving at any eyrie location during the breeding season.

With the exception of the Tom Gulch, McCready Ridge, Clapp Ridge, and Stitz Creek sites, all of the other sites (Scotia, Holmes, Shively, and S. Runenburg) are on bluff faces above either the Eel or Van Duzen Rivers at what are very popular recreation sites in the spring and summer months. The S. and W. Runenburg nest cliff is more obscured than the others and occurs south of the river and the Highway 36 corridor. At the Eel River sites, HRC personnel commonly observe swimmers, boaters, recreational vehicle riders, and even rock climbers near the falcon eyries.

#### **2024 SURVEYS**

Surveys in 2024 will again include monitoring of traditional and known territories. All forestry and science staff will continue to report incidental Peregrine sightings to the wildlife staff, and follow-up surveys will be conducted when necessary.

No change in the HCP monitoring strategy for Peregrine falcons is recommended at this time.

#### **REFERENCES**

- Buchanan, J.B., K.A. Hamm, L.J. Salzer, L.V. Diller, and S.J. Chinnici. 2014. Tree-nesting by Peregrine Falcons in North America: Historical and Additional Records. J. Raptor Res. 48(1): 61-67.
- Pagel, J.E. 1992. Protocol for observing known and potential Peregrine falcon eyries the Pacific Northwest. Pp. 83-96 *In* Proceedings: Symposium on Peregrine falcons in the Pacific Northwest. J.E. Pagel, ed. Rogue River National Forest, Medford, OR 97501.
- U.S. Fish and Wildlife Service. 2003. Monitoring Plan for the American Peregrine Falcon, A Species Recovered Under the Endangered Species Act. U.S. Fish and Wildlife Service, Divisions of Endangered Species and Migratory Birds and State Programs, Pacific Region, Portland, OR. 53 pp.

#### **APPENDIX 1**

#### PEREGRINE FALCON SURVEY LANGUAGE

Final DFG, USFWS and HRC Mutually Agreed Upon Peregrine Falcon Survey Language (3/30/00) as modified (1/8/07) and 7/14/11.

Surveys shall be conducted at traditional and potential nest sites if operations occur between January 15 and August 15. If operations occur after August 15 and before January 15, no surveys are required. Survey visits shall be scheduled based on the estimated duration of operations. The area of influence will be 0.5 mile for conventional operations and 1.0 mile for helicopter operations. All surveys shall follow Pagel (1992), *Protocol for Observing Known and Potential Peregrine Falcon Eyries in the Pacific Northwest*, with respect to placement of observation posts, duration of surveys, time of day of surveys, observer preparation and equipment, and weather conditions. Helicopter surveys for Peregrine falcon should not be conducted without prior consultation and concurrence with both the USFWS and DFG.

- 1. Surveys at <u>traditional</u> sites shall be conducted according to the following guidelines:
  - a. If operations commence after January 14:
    - i. One survey shall be conducted prior to operations, but no more than five days prior to operations.
    - ii. Conduct two additional surveys spaced at least 25 days apart but no more than 30 days. If due to the estimated duration of operations, two additional surveys cannot be spaced by at least 25 days, conduct two additional surveys well distributed throughout the operational period of the project prior to June 30 and prior to completion of operations.
  - b. If timber operations commence before January 15 (beginning at least two weeks prior to January 15), those survey requirements as specified above for operations that commence after January 14 shall be applied, except that all three surveys would occur concurrently with operations.
  - c. Surveys shall not be required for hauling on the Shively Road within the 0.5 mile disturbance minimization buffer for the Holmes and Shively eyries as per the 8 January 2007 and 14 July 2011 consultations.
- 2. Surveys of potential sites shall be conducted according to the following:
  - a. If timber operations commence after January 14:
    - i. One survey shall be conducted prior to operations, but no more than five days prior to operations.
    - ii. In addition, if the estimated duration of operations allows, conduct one survey prior to the completion of operations spaced at least 25 days after the first survey but no more than 30 days. If the operational period is estimated to end in less than 25 days, conduct the additional survey half-way through the estimated operational period.

# **APPENDIX 2**

## Maps of Peregrine Falcon Eyries

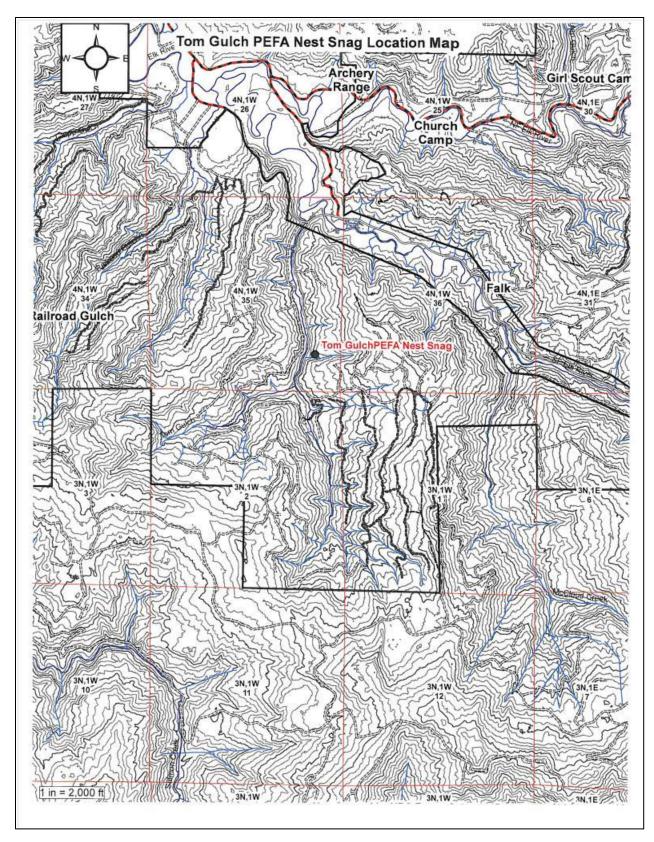


Figure 3. Tom Gulch Peregrine Falcon Nest Snag Location Map.

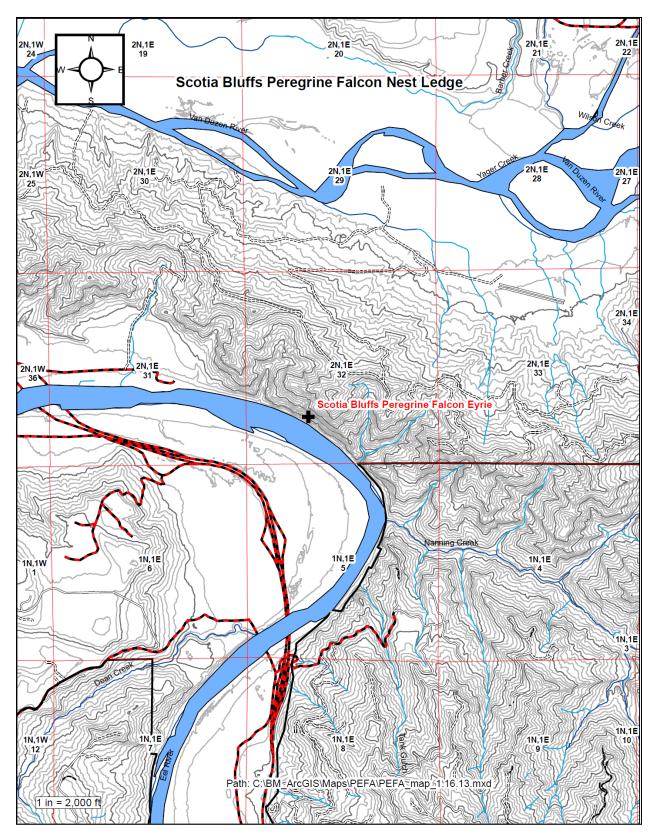


Figure 4. Scotia Bluffs Peregrine Falcon Nest Ledge.

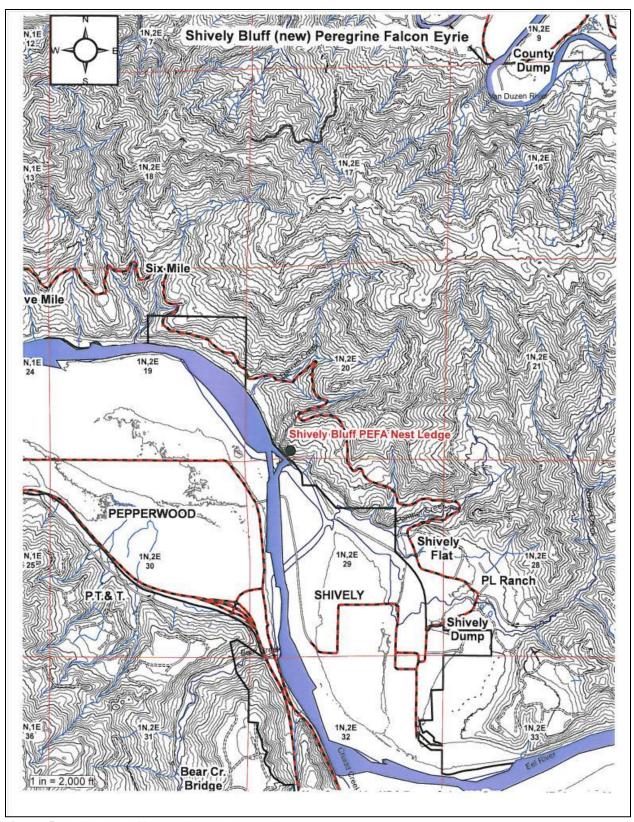
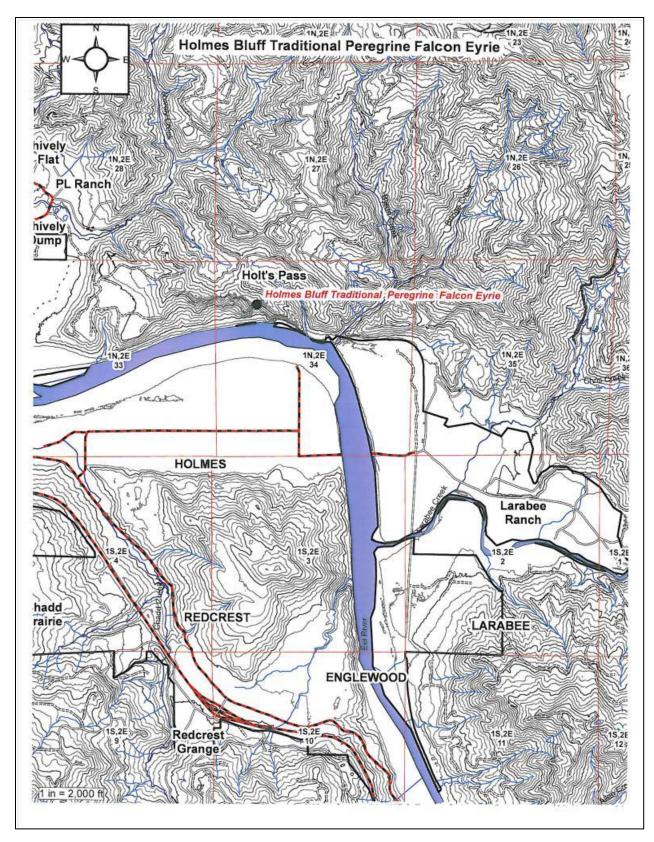
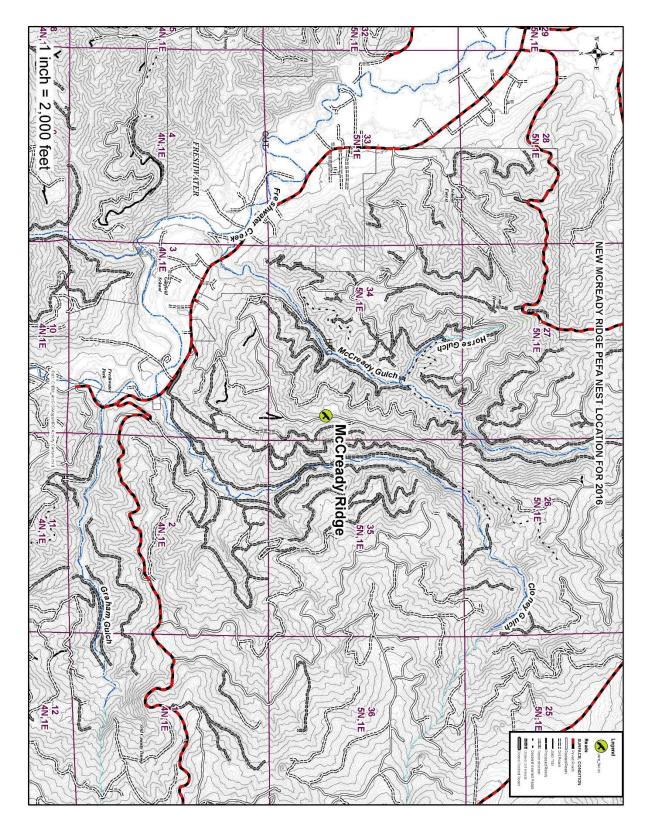


Figure 5. Shively Bluff Peregrine Falcon Eyrie.



**Figure 6.** Holmes Bluff Traditional Peregrine Falcon Eyrie.



**Figure 7.** McCready Ridge 2016-2017 Peregrine Falcon Eyrie.

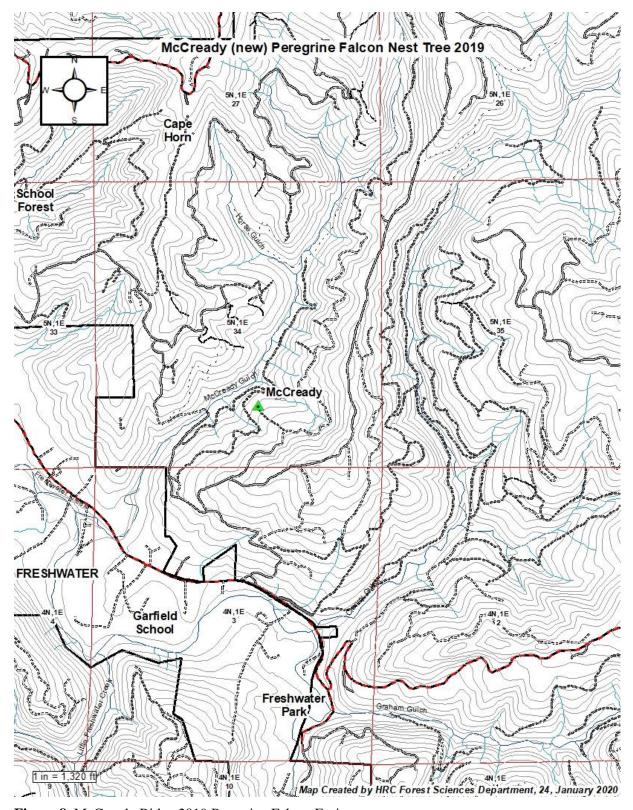


Figure 8. McCready Ridge 2019 Peregrine Falcon Eyrie.

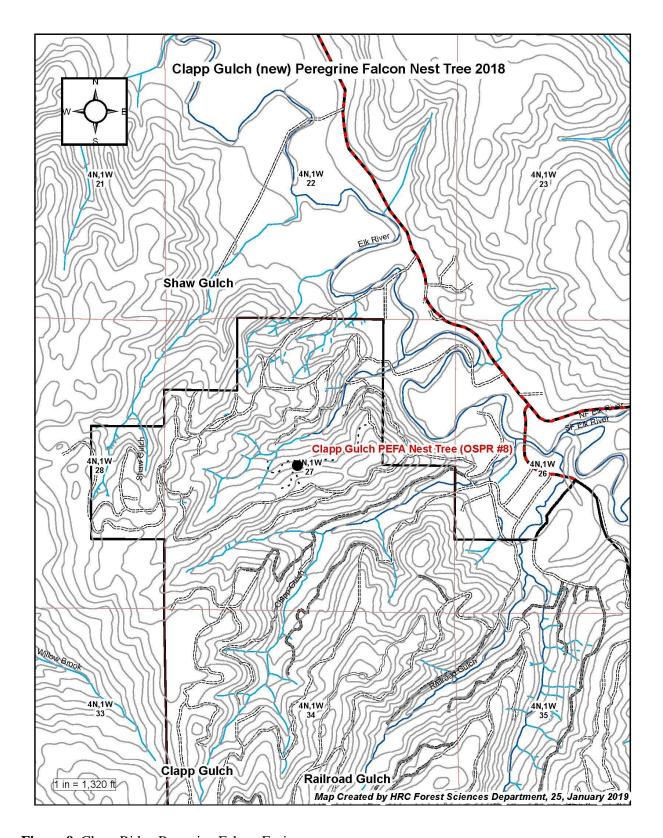


Figure 9. Clapp Ridge Peregrine Falcon Eyrie.

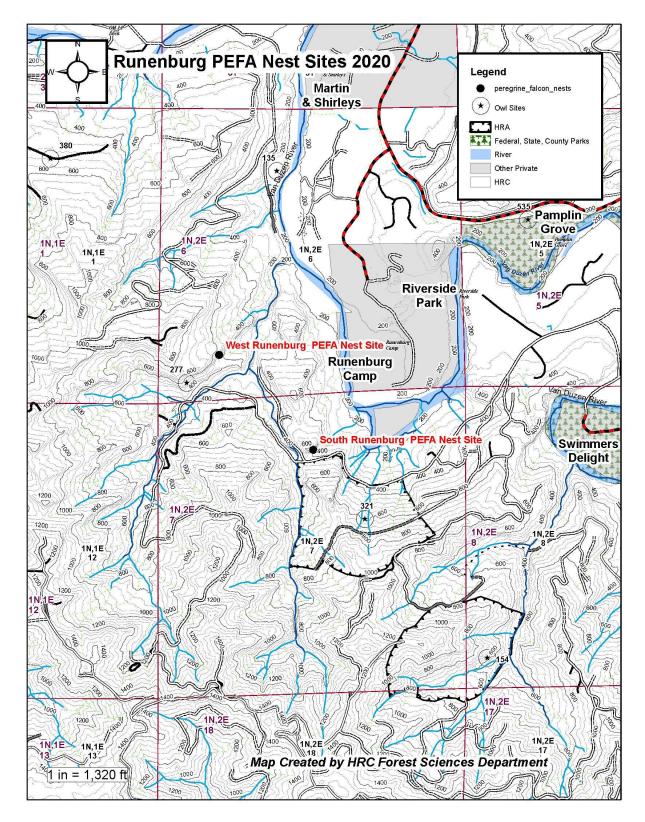


Figure 10. Runenburg Peregrine Falcon Eyries.

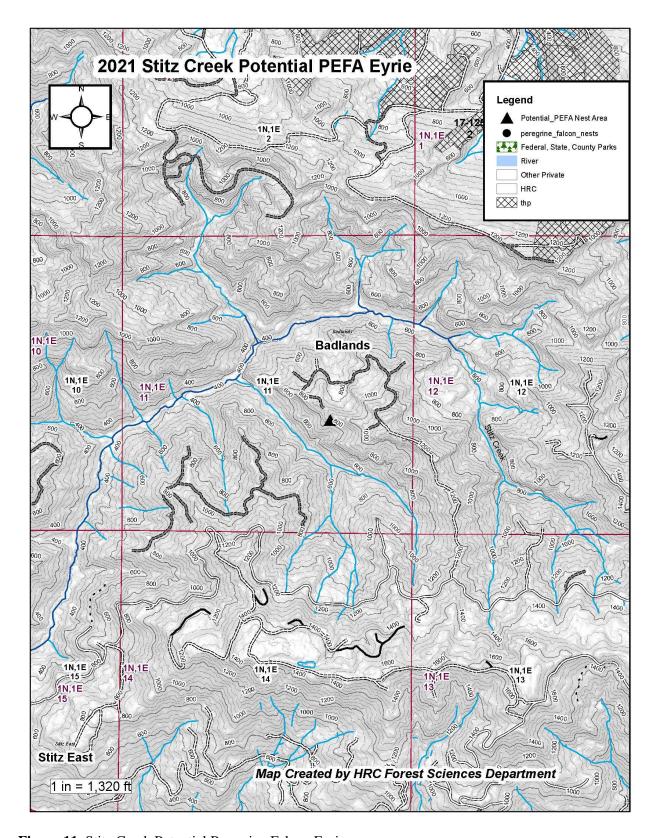


Figure 11. Stitz Creek Potential Peregrine Falcon Eyrie.