

ANNUAL OSPREY REPORT 2021 Survey Year

**submitted to
The California Department of Fish and Wildlife
by
Green Diamond Resource Company**

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Introduction

In 2006, Green Diamond Resource Company (GDRCo) and the California Department of Fish and Wildlife (CDFW) developed and began implementing an ownership-wide osprey consultation protocol for timber harvest plans (THPs).

In accordance with this consultation protocol, between March 15th and August 15th, GDRCo biologists conduct searches and status checks for historic and active osprey nests occurring within 0.25 mile of ground-based operations and 0.5 mile of helicopter-based operations expected to be active during the critical period for osprey. The critical period is March 1st to April 15th and extends to August 15th for occupied nests. Nest status need not be determined if ground-based operations within 0.25 mile of the nest or helicopter-based operations within 0.5 mile of the nest occur outside the critical period. If timber harvest operations commence between August 15th and September 1st, then a check for late-season occupancy of the nest is required. This check ensures that unfledged chicks are not present at the nest.

The ownership-wide consultation allows operations within 0.25 mile (but not within 500 feet) of occupied nests during the breeding season so long as operations occur as late in the breeding season as operationally feasible and encroach upon the 0.25-mile disturbance buffer and nest gradually. If operations are to occur within the 0.25-mile disturbance buffer during the breeding season, the nest must be monitored to determine if operations are adversely affecting the nesting osprey or their young.

This report summarizes the survey results for osprey nests covered by the consultation during 2021. An occupied nest is defined as a nest or nest tree used by an osprey pair during the current nesting season. An active nest is defined as a nest or nest tree used at least once during the three most recent nesting seasons. A tree may be considered an active nest tree even if it has lost all or a portion of its stick nest, provided that suitable substrate for rebuilding the nest remains. A historic nest is defined as a nest or nest tree used at some time in the past but is not currently occupied or active.

Summary of Results

Sixty individual historic or active nests or nest trees were surveyed a total of 185 times in 2021 (Figure 1). Of the 60 nests surveyed, seven nests were occupied, 45 were unoccupied, and eight did not have sufficient data to determine occupancy status (Figure 2). Reproduction was confirmed at one of the seven occupied sites (Table 1). However, surveys to confirm reproduction are only required when operations are planned within 0.25 mile of an occupied nest during the critical period. Therefore, reproductive surveys were not conducted at all occupied sites, and no inferences should be made regarding osprey productivity in 2021.

No helicopter-based THP operations occurred within 0.5 mile of historic or active osprey nests during the 2021 critical period. Nine ground-based THPs with operations during the critical period occurred within 0.25 mile of 18 historic or active osprey nests (Table 2). Of the 18 THP-associated nest sites, 17 were determined to be unoccupied and one (McKay #13) was determined to be occupied (Figure 2). McKay #13 was located within 0.25 mile of THP 19-2101 (1-21-00067HUM) Unit A. Prior to the start of operations within 0.25 mile of McKay #13, surveys confirmed that the the young had fledged or the nest had failed (Table 3), and operations within 0.25 mile of the nest were approved by CDFW. No operations occurred within 0.25 mile of

osprey nests where occupancy could not be determined. Refer to Table 2 for a complete summary of the status of the 2021 osprey nests and THP associations and Maps 1 and 2 for the nest locations and THP unit boundaries.

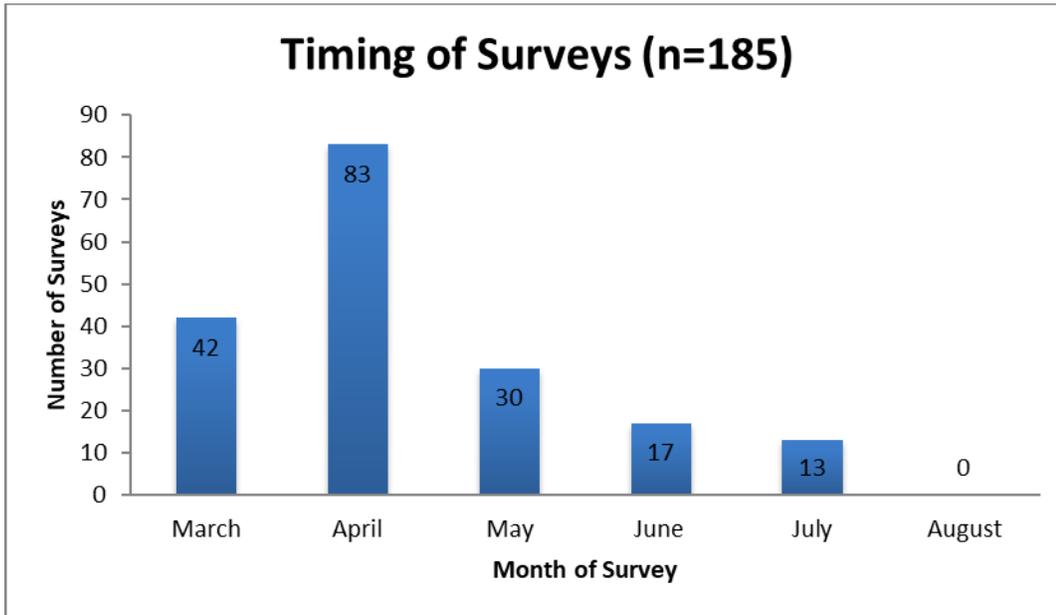


Figure 1: Timing of surveys conducted during the 2021 osprey critical period

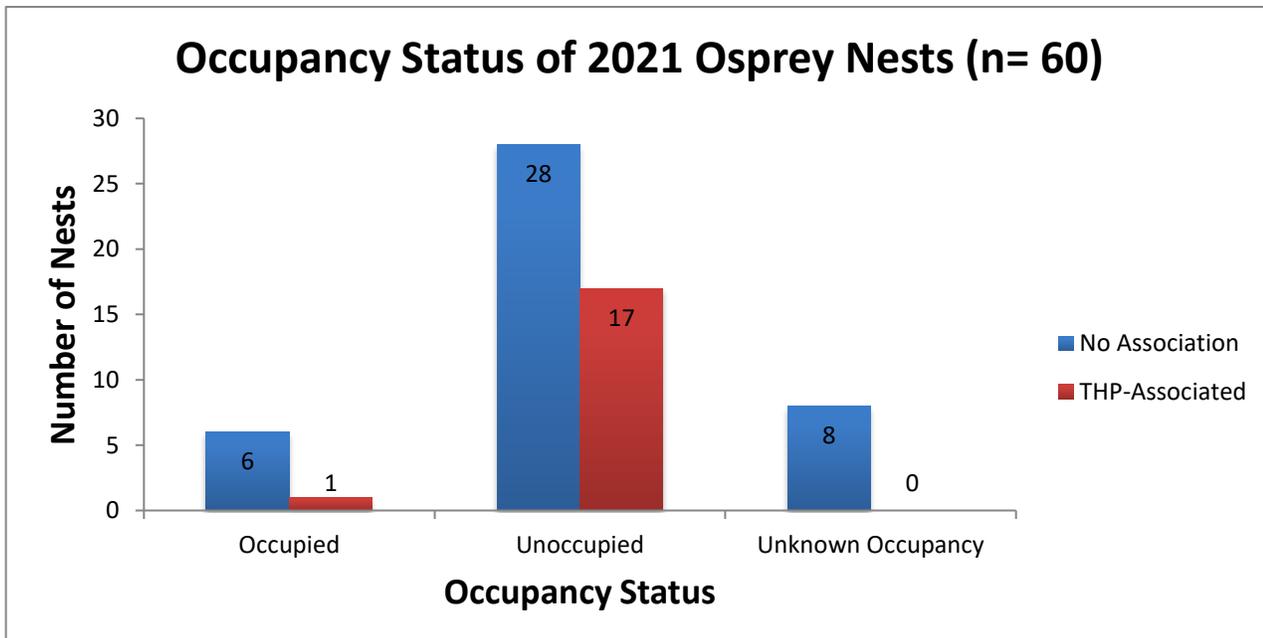


Figure 2: Occupancy status of osprey nests surveyed in 2021

Table 1. Occupied sites with survey results confirming reproduction, 2021.

Site Name	THP	Occupancy Status	Survey Results
Jac #28	None	Occupied	4/9/2021: Adult incubating 4/19/2021: Adult incubating 6/21/2021: Adult and one juvenile on nest 7/22/2021: Adult and one juvenile on nest 7/27/2021: Juvenile on nest

Table 2. Summary of occupancy status and THP association by nest site, 2021.

Site Name	Ground-based operations within 0.25 mile during critical period	Survey Occupancy
Ah Pah #1	561805 (1-19-00040HUM)	Unoccupied
Ambrose #3	None	Occupied
Big #1	471702 (1-17-060HUM)	Unoccupied
Big #14	472002 (1-20-00082HUM)	Unoccupied
Big #16	471702 (1-17-060HUM)	Unoccupied
Big #18	472002 (1-20-00082HUM)	Unoccupied
Big #19	472002 (1-20-00082HUM)	Unoccupied
Big #20	None	Unknown
Big #4	None	Occupied
Big #5	472003 (1-20-00133HUM)	Unoccupied
Big #6	472002 (1-20-00082HUM)	Unoccupied
CNDDDB Ah Pah	None	Unoccupied
Cran #5	None	Unoccupied
Cran #6	None	Unoccupied
Dandy #2	None	Unknown
Jac #10	None	Unoccupied
Jac #11	None	Unoccupied
Jac #12	None	Unoccupied
Jac #13	None	Unoccupied
Jac #14	151802 (1-18-00161HUM)	Unoccupied
Jac #16	None	Unoccupied
Jac #17	None	Unoccupied
Jac #18	None	Unoccupied
Jac #19	None	Unoccupied
Jac #24	151802 (1-18-00161HUM)	Unoccupied
Jac #27	151802 (1-18-00161HUM)	Unoccupied
Jac #28	None	Occupied
Jac #29	None	Unoccupied

Site Name	Ground-based operations within 0.25 mile during critical period	Survey Occupancy
Jac #30	151802 (1-18-00161HUM)	Unoccupied
Jac #31	None	Unknown
Jac #32	151802 (1-18-00161HUM)	Unoccupied
Jac #33	None	Unoccupied
Jac #9	None	Unoccupied
McGarv #37	661901 (1-19-00142DEL)	Unoccupied
McGarv #6	None	Unknown
McKay #10	None	Unoccupied
McKay #11	None	Unoccupied
McKay #13	192101 (1-21-00067HUM)	Occupied
Mckay #5	None	Unoccupied
Mckay #6	None	Unoccupied
OH #1	None	Unoccupied
OH #14	None	Unknown
OH #15	None	Unknown
OH #19	None	Unoccupied
OH #2	152001 (1-21-00022HUM)	Unoccupied
OH #20	152001 (1-21-00022HUM)	Unoccupied
OH #25	None	Unoccupied
OH #26	None	Unoccupied
OH #28	None	Unknown
OH #29	None	Unknown
OH #30	None	Occupied
OH #31	None	Occupied
Oma Cr #2	None	Unoccupied
Oma Cr #4	611901 (1-20-00177HUM)	Unoccupied
SACR #2	None	Unoccupied
Salm #26	None	Occupied
Waukell Creek #1	None	Unoccupied
Waukell Creek #2	None	Unoccupied
Waukell Creek #4	None	Unoccupied
Waukell Creek #5	None	Unoccupied

Table 3. 2021 summary of nest monitoring for late-season occupancy prior to operations commencing within the 0.25-mile buffer.

Site Name	Date	Duration	Observations
McKay #13	7/19/2021	09:32-11:32 (2 hours)	No osprey detected
McKay #13	7/20/2021	17:28-20:28 (3 hours)	No osprey detected

Map 1. Osprey Nests Within 0.25 Miles of 2021 Harvest Units South

1 in = 5 miles

