Mexican Spotted Owl

Lincoln National Forest Sacramento Ranger District Inventories and Monitoring 2012



Prepared By: Wildlife Crew

Reviewed By: Jack Williams, Staff Wildlife Biologist Reuben Gay, Wildlife Biologist John Montoya, Biological Technician

Introduction

The Mexican spotted owl (MSO), *Strix occidentalis lucida*, is known to inhabit the Sacramento Ranger District of the Lincoln National Forest (from historic records). In 1987, a pair of MSOs with three young was verified on the Sacramento Ranger District. As of 2010, there are 117 established Protected Activity Centers (PACs) on the Sacramento Ranger District.

Training

Training for the inventory surveys and formal monitoring consisted of a spotted owl certification session in April and a second session for late-coming workers in May. The training emphasized thorough knowledge of the owl inventory and monitoring protocol (Forest Service Manual 2676.2, Interim Directive No. 2), raptor identification by sight and sound, as well as map reading and orientation skills. The spring training also included a field session to a PAC. Any uncertified personnel were under the supervision of certified personnel during the inventory and formal monitoring. All personnel conducting inventory and monitoring were placed on a list for the United States Department of Interior - Fish and Wildlife Service's approval.

Personnel

The 2012 Mexican Spotted Owl inventories and monitoring were supervised and conducted by Jack Williams (Staff Wildlife Biologist), Reuben Gay (Wildlife Biologist) and John Montoya (District Biological Technician). Field work for the Sacramento Ranger District was completed by:

Sarah Moon	STEP
Lori Huffman	STEP
Sylvia Rodriguez	STEP
Nathan Etzel	STEP
Ryan Jonnes	1039

Methods

Inventory techniques outlined in Forest Service Manual 2676.2 (Interim Directive No. 2, Exhibit 1) were followed. Monitoring was done formally and informally for all project areas for MSO. Protocol for the informal monitoring was a modification of the formal protocol. Formal monitoring results were modified in 2001, after consulting with USFWS to confirm non-reproduction. If the same owl ate, cached, or held 5 mice in any combination, non-reproduction could be confirmed.

Legend

Reproductive Abbreviations:

PAC= protected activity center

O= pair occupancy inferred or confirmed

M= male inferred or confirmed

F= female inferred or confirmed

P= presence of a single owl inferred or confirmed; sex unknown

#HSU= number of hatchlings (nestlings), success unknown

#Y= number of young fledged

#YD= number of young found dead

NU= nesting status unknown; no mousing attempted

NY= nesting status undetermined; reproductive status inconclusive after mousing

NSU= nest inferred or confirmed but success unknown

NN= non-nesting/non-reproduction confirmed

NF= nest failed; egg or nesting failure

IM-NR= informally monitored, no response or location

A= absence or not occupied; formal monitoring

Raptor Species Abbreviations:

AEAC= Northern Saw-whet Owl (Aegolius acadicus)

ACGE= Northern Goshawk (Accipiter gentilis)

BUJA= Red-tailed Hawk (*Buteo jamaicensis*)

ACCO= Cooper's Hawk (Accipiter cooperii)

BUVI= Great Horned Owl (Bubo virginianus)

GLGN= Northern Pygmy-Owl (Glaucidium gnoma)

MSO= Mexican Spotted Owl (Strix occidentalis)

OTFL= Flammulated Owl (*Otus flammeolus*)

OTKE= Western Screech-Owl (Otus kennicottii)

Inventory and Monitoring Results

All targets assigned by the Lincoln National Forest Supervisor's Office were met or exceeded for the Sacramento Ranger District.

Informal Monitoring

George PAC # 030802012

Survey 1 Daytime Follow-up Visit: 5/16/12 No MSO located

Survey 2 Daytime Follow-up Visit: 6/07/12 No MSO located

Survey 3 Daytime Follow-up Visit: 7/16/12 No MSO located

Survey 4 Daytime Follow-up Visit: 7/24/12 Male Presence detected, nesting unknown

Results: M/NN

Male heard in the PAC during the four informal surveys.

Little Apache PAC # 030802091

Survey 1 Daytime Follow-up Visit: 4/09/12 Male and Female heard and female was seen.

Reproductive Visit 1: 5/16/12 No MSO located

Reproductive Visit 2: 6/12/12 Male and Female heard and moused. Lost both of them in the

darkness unknown what they did with mice

Reproductive Visit 3: 6/21/12 Male and Female MSO Located and moused. Male took mouse to young which 2 young were seen. Female cached mouse in nest tree lots of pellets and white wash observed under nest tree.

Results: 02Y

1 Survey and 3 reproductive visits were conducted, successful nesting pair with two fledgling young.

Pierce PAC#030802068

Survey 1 Daytime Follow-up Visit: 6/04/12 Male and Female confirmed mouse#1 took from female and ate, mouse#2 was cached, mouse#3 was cached, and mouse#4 female left with mouse, fate unknown

Reproductive Visit 1: 6/14/12 MSO detected sex unknown mouse#1 ate, mouse#2 cached, mouse#3 ate, mouse#4 cached, and mouse#5 the owl did not pay attention to mouse and fell asleep.

Reproductive Visit 2: 7/02/12 No MSO located

Reproductive Visit 3: 7/11/12 Male and Female confirmed; mouse#1-ate, mouse#2-cached, mouse#3-cached, mouse#4-cached, mouse#5-left with mouse, fate undetermined, mouse#6-left with mouse, fate undetermined.

Results: O/NN

Zoo PAC#030802100

Survey 1 Daytime Follow-up Visit: 4/15/12 Pair confirmed.

Reproductive Visit 1: 06/12/12 Male and Female found; mouse#1-male took to female and mouse was cached, mouse#2-female took mouse and cached.

Results: O/NY

Kerr PAC#030802042

Survey 1 Daytime Follow-up Visit: 05/10/12 Pair confirmed

Reproductive Visit 1: 05/24/12 Male and Female found; mouse#1-taken and ate by female, Mouse#2-4 all cashed by female.

Results: O/NN

York PAC#030802010

Survey 1 Daytime Follow-up Visit: 05/08/12 Pair Confirmed, Mouse#1,3,&4 taken to female, Mouse#2 Cashed by female.

Reproductive Visit 1: 06/19/12 Male and Female found; Mouse#1 cashed by male and ate by female, Mouse#2 cashed by female.

Results: O/NN

Masterson PAC#030802105

Survey 1 Daytime Follow-up Visit: 05/07/12 Pair Confirmed, Mouse#1,2 both ate by female, Mouse#3,4 cashed by female.

Reproductive Visit 1: 06/19/12 Pair Confirmed, Mouse#1,2 ate by female, Mouse#3,4 cashed by female.

Results: O/NN

Atkinson PAC#030802097

Survey 1 Daytime Follow-up Visit: 05/10/12 Pair confirmed, Mouse#1,2 ate by female.

Reproductive Visit 1: 06/13/12 No presents, survey discontinued because of presents of a redtailed hawk.

Reproductive Visit 2: No presents Reproductive Visit 3: No presents

Reproductive Visit 4: Pair Confirmed, Mouse#1 ate by Female, Mouse#2 ignored by both male

and female.

Results: O/NN

Turkey PAC#030802087

Survey 1 Daytime Follow-up Visit: 06/28/12 No presents Survey 2 Daytime Follow-up Visit: 07/13/12 No presents Survey 3 Daytime Follow-up Visit: 07/19/12 No presents Survey 4 Daytime Follow-up Visit: 07/24/12 No presents

Results: IM-NR

Allen PAC#030802020

Survey 1 Daytime Follow-up Visit: 06/07/12 No Presence Survey 2 Daytime Follow-up Visit: 06/28/12 No Presence Survey 3 Daytime Follow-up Visit: 07/16/12 No Presence Survey 4 Daytime Follow-up Visit: 07/24/12 No Presence

Results: IM-NR

Moore PAC#030802023

Survey 1 Daytime Follow-up Visit: 05/22/12 No Presence Survey 2 Daytime Follow-up Visit: 06/28/12 No Presence Survey 3 Daytime Follow-up Visit: 07/19/12 No Presence Survey 4 Daytime Follow-up Visit: 07/23/12 No Presence

Results: IM-NR

Rice PAC#030802049

Survey 1 Daytime Follow-up Visit: 4/26/12 No Presence Survey 2 Daytime Follow-up Visit: 06/5/12 No Presence Survey 3 Daytime Follow-up Visit: 07/02/12 No Presence Survey 4 Daytime Follow-up Visit: 7/11/12 No Presence

Results: IM-NR

Water PAC#030802022

Survey 1 Daytime Follow-up Visit: 4/23/12 M

Survey 2 daytime Follow-up Visit: 5/14/12 No Presence Survey 3 Daytime Follow-up Visit: 7/3/12 No Presence Survey 4 daytime Follow-up Visit: 7/11/12 O/NN

Results: O/NN

Willie White PAC#030802025

Survey 1 Daytime Follow-up Visit: 5/15/12 O/UN Survey 2 Daytime Follow-up Visit: 6/13/12 O/NN Survey 3 Daytime Follow-up Visit: 7/23/12 O/UN

Results: O/NN

Wills Pac#030802078

Survey 1 Daytime Follow-up Visit: 5/14/12 O/NN Male cached 3 ate 1, female ate 1

Survey 2 Daytime Follow-up Visit: 7/3/12 No Presence Survey 3 Daytime Follow-up Visit: 7/19/12 No Presence Survey 4 Daytime Follow-up Visit: 7/23/12 No Presence

Results: O/NN Before the May 15 cut-off

Newman PAC#030802007

Survey 1 Daytime Follow-up Visit: 6/5/12 M. Male heard in territory, might be from adjacent territory.

Survey 2 daytime Follow-up Visit: 6/26/12 M. Male heard in same area as survey 1.

Survey 3 Daytime Follow-up Visit: 7/17/12 No Presence. Search area of former locations, no sign of birds.

Survey 4 Daytime Follow-up Visit: 7/24/12 No presence

Results: M/NU

Bear Lake PAC#030802034

Survey 1 Daytime Follow-up Visit: 6/6/12 No Presence Survey 2 Daytime Follow-up Visit: 6/28/12 No Presence Survey 3 Daytime Follow-up Visit: 7/13/12 No Presence Survey 4 Daytime Follow-up Visit: 7/19/12 No Presence

Results: IM-NR

Wilmeth PAC#030802027

Survey 1 daytime Follow-up Visit: 4/30/12 F Mouse fates A I.

Survey 2 Daytime Follow-up Visit: 6/26/12 M Mouse fates A I.

Survey 3 Daytime Follow-up Visit: 7/3/12 M No mousing was used, male flew away from

crew.

Results: F/M-NU Pair was not seen or heard together during a single survey, can not determine pair status or nesting status.

Lightning PAC#030802081

Survey 1 Daytime Follow-up Visit: 5/7/12 O NU Mousing Fates: Male AA; Female CA Survey 2 Daytime Follow-up Visit: 6/19/12 O/NN Mousing Fates: Male A; Female ACCC

Results: O-NN

Jim Lewis PAC#030802086

Survey 1 Daytime Follow-up Visit: 5/4/12 No Presence

Survey 2 Daytime Follow-up Visit: 6/27/12 O-NU Heard pair

Survey 3 Daytime Follow-up Visit: 6/26/12 No Presence

Survey 4 Daytime Follow-up Visit: 7/3/12 O-NU

Survey 5 Daytime Follow-up Visit: 7/11/12 O-NN

Results: O-NN

Jeffers PAC#030802038

Survey 1 Daytime Follow-up Visit: 6/5/12 No Presence Survey 2 Daytime Follow-up Visit: 6/11/12 No Presence Survey 3 Daytime Follow-up Visit: 6/26/12 No presence Survey 4 Daytime Follow-up Visit: 7/3/12 No Presence

Results: IM-NR

Trail PAC#030802059

Survey 1 Daytime Follow-up Visit: 6/6/12 No Presence Survey 2 Daytime Follow-up Visit: 6/29/12 No Presence Survey 3 Daytime Follow-up Visit: 7/11/12 No Presence Survey 4 Daytime Follow-up Visit: 7/26/12 No Presence

Results: IM-NR

Delaney PAC#030802076

Survey 1 Daytime Follow-up Visit: 6/5/12 No Presence Survey 2 Daytime Follow-up Visit: 6/27/12 No Presence Survey 3 Daytime Follow-up Visit: 7/3/12 Male Heard Survey 4 Daytime Follow-up Visit: 7/11/12 Male Heard

Reslts: M-NU

Crisp PAC 030802056

Survey 1 Daytime Follow-up Visit: 5/22/12 M. Mouse fates L

Survey 2 Daytime Follow-up Visit: 6/5/12 P

Survey 3 Daytime Follow-up Visit: 6/28/12 O: Mouse fate LF Survey 4 Daytime Follow-up Visit: 7/3/12 O: Mouse fate AI

Results: O-NN

Carrisa Lookout PAC#030802036

Survey 1 Daytime Follow-up Visit: 5/4/12 No Presence

Survey 2 Daytime Follow-up Visit: 6/6/12 Male Mouse fates AA

Survey 3 Daytime Follow-up Visit: 6/27/12 No Presence Survey 4 Daytime Follow-up Visit: 7/2/12 No Presence

Survey 5 Daytime Follow-up Visit: 7/11/12 O-NN

Results: O-NN. Non-nesting based off of behavior.

Chilcoote PAC#030802092

Survey 1 Daytime Follow-up Visit: 6/4/12 P-UN

Survey 2 Daytime Follow-up Visit: 6/26/12 No Presence

Survey 3 Daytime Follow-up Visit: 7/5/12 No Presence (Heard Carissa LO Pair)

Survey 4 Daytime Follow-up Visit: 7/19/12 No presence

Results: IM-NR (Carissa birds heard in territory)

Board PAC#030802093

Survey 1 Daytime Follow-up Visit: 6/26/12 No Presence Survey 2 Daytime Follow-up Visit: 7/5/12 No Presence Survey 3 Daytime follow-up Visit: 7/19/12 No Presence Survey 4 Daytime Follow-up Visit: 7/26/12 No Presence

Results: IM-NR

Jim Jeffries PAC#030802037

Survey 1 Daytime Follow-up Visit: 6/26/12 No Presence Survey 2 Daytime Follow-up Visit: 7/19/12 No Presence Survey 3 Daytime Follow-up Visit: 7/26/12 No Presence Survey 4 Daytime Follow-up Visit: 7/30/12 No Presence

Results: IM-NR

Carr PAC#030802018

Survey 1 Daytime Follow-up Visit: 6/4/12 No Presence Survey 2 Daytime Follow-up Visit: 6/25/12 No Presence Survey 3 Daytime Follow-up Visit: 7/09/12 No Presence

Survey 4 Daytime Follow-up Visit: 7/17/12 No Presence

Results: IM-NR

Fire PAC#030802073

Survey1 Daytime Follow-up Visit: 5/4/12 No Presence Survey 2 Daytime Follow-up Visit: 6/25/12 No Presence Survey 3 Daytime Follow-up Visit: 7/09/12 No Presence Survey 4 Daytime Follow-up Visit: 7/17/12 No Presence

Results: IM-NR

Wet Burnt PAC#030802071

Survey 1 Daytime Follow-up Visit: 5/4/12 No Presence Survey 2 Daytime Follow-up Visit: 6/25/12 No Presence Survey 3 Daytime Follow-up Visit: 7/9/12 No Presence Survey 4 Daytime Follow-up Visit: 7/17/12 No Presence

Results: IM-NR

Walker Pac#030802017

Survey 1 Daytime Follow-up Visit: 5/30/12 No Presence Survey 2 Daytime Follow-up Visit: 5/25/12 O-NN

Results: O-NN (Had female off of nest for over 1 hr.)

West Walker Pac#030802077

Survey 1 Daytime Follow-up Visit: 5/30/12 No Presence Survey 2 Daytime Follow-up Visit: 6/25/12 No Presence Survey 3 Daytime Follow-up Visit: 7/9/12 No Presence Survey 4 Daytime Follow-up Visit: 7/17/12 No Presence

Results: IM-NR

16 springs PAC#030802019

Survey 1 Daytime Follow-up Visit: 5/23/12 No Presence(Heard Walker Birds)

Survey 2 Daytime Follow-up Visit: 6/4/12 No Presence Survey 3 Daytime follow-up Visit: 6/25/12 No Presence Survey 4 daytime Follow-up Visit: 7/9/12 No Presence

Results: IM-NR

Rawlins PAC#030802005

Survey 1 Daytime Follow-up Visit: 5/2/12 No Presence Survey 2 Daytime Follow-up Visit: 5/15/12 O-NSU Survey 3 Daytime Follow-up Visit: 6/12/12 F-NSU Survey 4 Daytime Follow-up Visit: 6/26/12 O-1Y

Results: O-1Y

Son PAC#030802116

Survey 1 Daytime Follow-up Visit: 5/25/12 O-NU

Survey 2 Daytime Follow-up Visit: 6/11/12 No Presence

Survey 3 daytime Follow-up Visit: 6/21/12 O-NN

Results: O-NN

A-Frame PAC#030802090

Survey 1 Daytime follow-up Visit: 5/17/12 O-NN

Results: O-NN

Thunder PAC#030802117

Survey 1 Daytime Follow-up Visit: 5/7/12 O-NU Survey 2 Daytime Follow-up Visit: 6/19/12 O-NN

Results: O-NN

Hidden PAC#030802053

Survey 1 Daytime Follow-up Visit: 6/27/12 O-NN

Results: O-NN