The Spotted Owl Observations Database Management Framework

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SPOWDB Management Framework

Overview

Goal:
• Provide a clear and transparent description of
  • Database
  • Current Practices

Disclaimer:
• Describes current status
• May be updated
SPOWDB Management Framework

Contents

• Background
• Limitations
• Contents
• Activity Centers
• Data Issues, Problem-Solving, and Agency Collaboration
• Availability
• Source Data Acquisition
• Barred Owl
• Updates and Training
Spotted Owl Observations Database

Background

History
- 1973: created by Gordon Gould
- 1992: first referenced in the FPR
- 2003: available in the BIOS Viewer

SPOWDB and the CNNDDB
- Fish and Game Code section 1932
- Different data models
  - SPOWDB: Point
  - CNNDDB: Polygon
- CNNDDB subscription and license agreement
Spotted Owl Observations Database

Background

Centralized location for:

- Submission
- Review
- Reporting

Northern Spotted Owl

California Spotted Owl
Spotted Owl Observations Database

Limitations

• The absence of detection data **does not** necessarily mean owls are not or have not been present.
• The database **should not be used** to calculate population trends, abundance, density, etc.
• The database **does not track** occupancy
• The database **does not track** barred owl influence
• The database **is a starting point**
Spotted Owl Observations Database

Definitions

• Observation
  • Positive: Detection
  • Negative: No Response

• Activity Center
  “Best” Observation

• Masterowl Number

• Site Name

• Site
  Area of concentrated or stand-alone observations

• Attribute Table
  Tabular Data

• Metadata
  Information about the dataset
Spotted Owl Observations Database

Contents

- Nest locations
- Bird locations
  - Juveniles
  - Pairs
  - Resident Singles
  - Singles
- Survey locations
  - Call stations
  - Follow-ups
  - Activity center searches

Legend:
- Nest
- Young
- Pair
- Other Positive Observation
- Negative Observation
- Activity Center
- Spider Diagram
NSO Protocol Definition

“Activity centers are a location or point representing ‘the best of’ detections such as nest stands, stands used by roosting pairs or territorial singles, or concentrated nighttime detections.”

1) Nest
2) Nest Stand
3) Daytime Pair
4) Daytime Resident Single
5) Nighttime Pair
6) Multiple Nighttime Single
Spotted Owl Observations Database

Activity Center Status

- Abandonment: Habitat no longer supports territorial owls
- Invalidation: Activity center does not meet the protocol definition
Spotted Owl Observations Database

Activity Center Status

• Abandonment
  • Federal Guidance
    • YFWO, 2008
    • AFWO, 2017
  • Process
    • Request abandonment through CDFW or CALFIRE
    • Provide:
      • Survey history
      • Current habitat conditions
      • Changes to habitat
      • Barred owl presence
    • CDFW or CALFIRE will request Technical Assistance from USFWS
Spotted Owl Observations Database

Activity Center Status

• Invalidation
  • Historic ACs
  • Process
    • Request site review
    • Provide survey history
    • Database Manager determination:
      • Potentially Valid AC
      • Potentially Invalid AC
      • Database manager will consult with USFWS and CDFW
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Data Issues, Collaboration, and Problem-solving

• Addressing Errors
  • Inform the Database Manager of any potential errors
  • Provide support documentation

• Collaboration and Problem-solving
  • Data contributor
  • CDFW regional staff
  • USFWS
  • CALFIRE
  • NSO Interagency Working Group
Spotted Owl Observations Database

Availability

- CNDDDB Subscription
- BIOS Viewer
- Data Download

Monthly CNDDDB Data Download

The CNDDDB and accompanying GIS data are updated and processed monthly for distribution to subscribers. The Spotted Owl Observations Database is continually updated and processed periodically for distribution to subscribers. All CNDDDB subscribers may download these updates. Access to the download site is password controlled; see below for password information. CNDDDB and Spotted Owl dataset components have been compressed into separate, self-executing files. Subscribers with computers running Windows® may use these files to update their CNDDDB and Spotted Owl data.

ː Updates to the CNDDDB GIS Data, August 2012 (PDF)

Jump to Data Portal, or read instructions

All uses of data from the CNDDDB are subject to the terms and conditions contained in our License Agreement (PDF).

https://wildlife.ca.gov/Data/CNDDDB/Subscribe
Spotted Owl Observations Database

Availability

- Text report

https://wildlife.ca.gov/Data/CNDDB/Subscribe
Spotted Owl Observations Database

Source Data Acquisition

• Necessary Data
  - What was observed?
  - When was it observed?
  - Where was it observed?

• Ways to Contribute
  1. Data entry template – available by request
  2. Contributor format
     • Spreadsheet
     • Shapefile, geodatabase
     • Datasheets and maps
  3. Online CNDDDB Field Survey Form
  4. Plan Number

https://www.wildlife.ca.gov/Data/CNDDDB/Submitting-Data
Spotted Owl Observations Database

Barred Owl
Spotted Owl Observations Database

Updates

Introducing the Spotted Owl Database Management Framework

March 28, 2019 in General

The Spotted Owl Observations Database Management Framework (PDF) is now available. It provides information on key database topics including:

- Database contents
- Database limitations
- Activity center information
- Addressing data issues
- Contributing Data
- Banded Owl Observations Database

The framework may be updated to reflect future changes to spotted owl management or regulatory guidelines. Substantial updates will be announced here on the CNDDB News page.

Monthly updates for February 2019

March 11, 2019 in Monthly Updates

Monthly updates for January 2019

February 8, 2019

https://www.wildlife.ca.gov/Data/CNDDDB/News
Spotted Owl Observations Database

Training

https://www.wildlife.ca.gov/Data/Training
The Spotted Owl Observations Database Management Framework

Thank You

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Photo credits:
Mandy Culpepper, 2016
Kate Keiser, 2016