



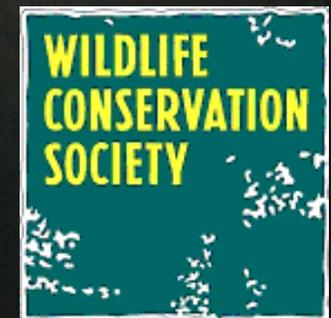
Science, Management and Cultural Significance of Fisher and Marten on California Tribal Lands



Presented

By

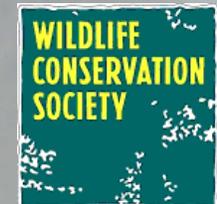
J. Mark Higley • Sean M. Matthews •
Chuck A. Goddard • Aaron J. Pole



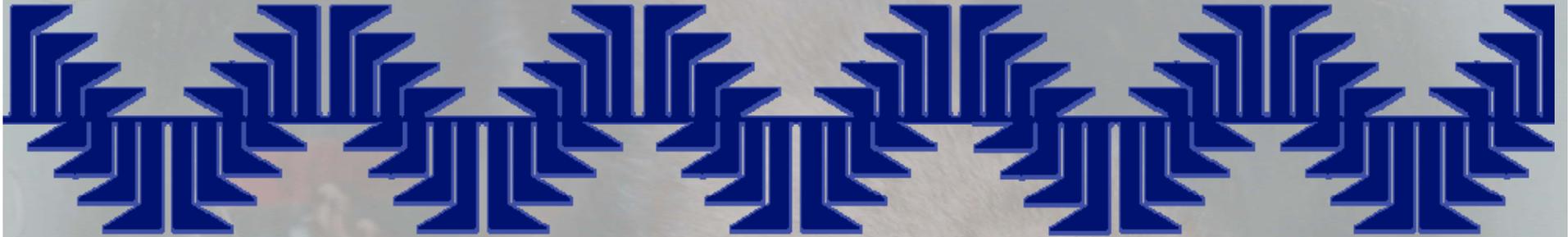
Acknowledgements

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- Nero, Inc.
- Sacred Grounds Organic Coffee Roasters



Acknowledgements

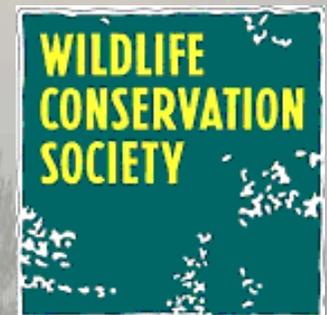


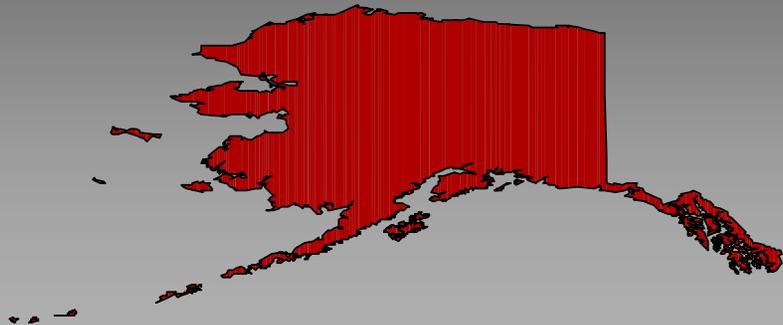
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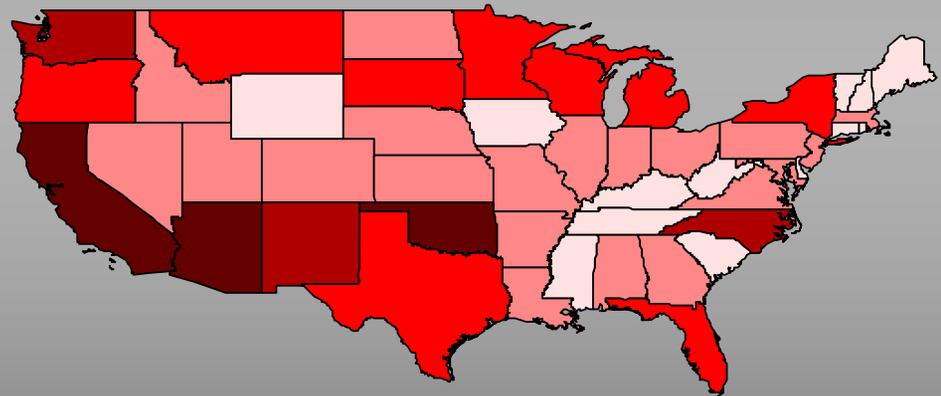
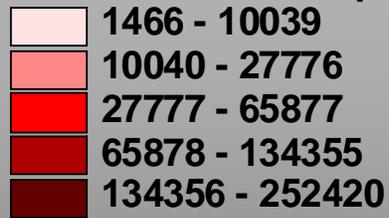
Presentation Outline

- **California Tribes**
- **Tribes with Land within the Historic Range of the Fisher**
- **Cultural Significance**
- **Management and Tribal Concerns**
- **Science and Research on Tribal Lands**
- **Hoopa Forest Management**



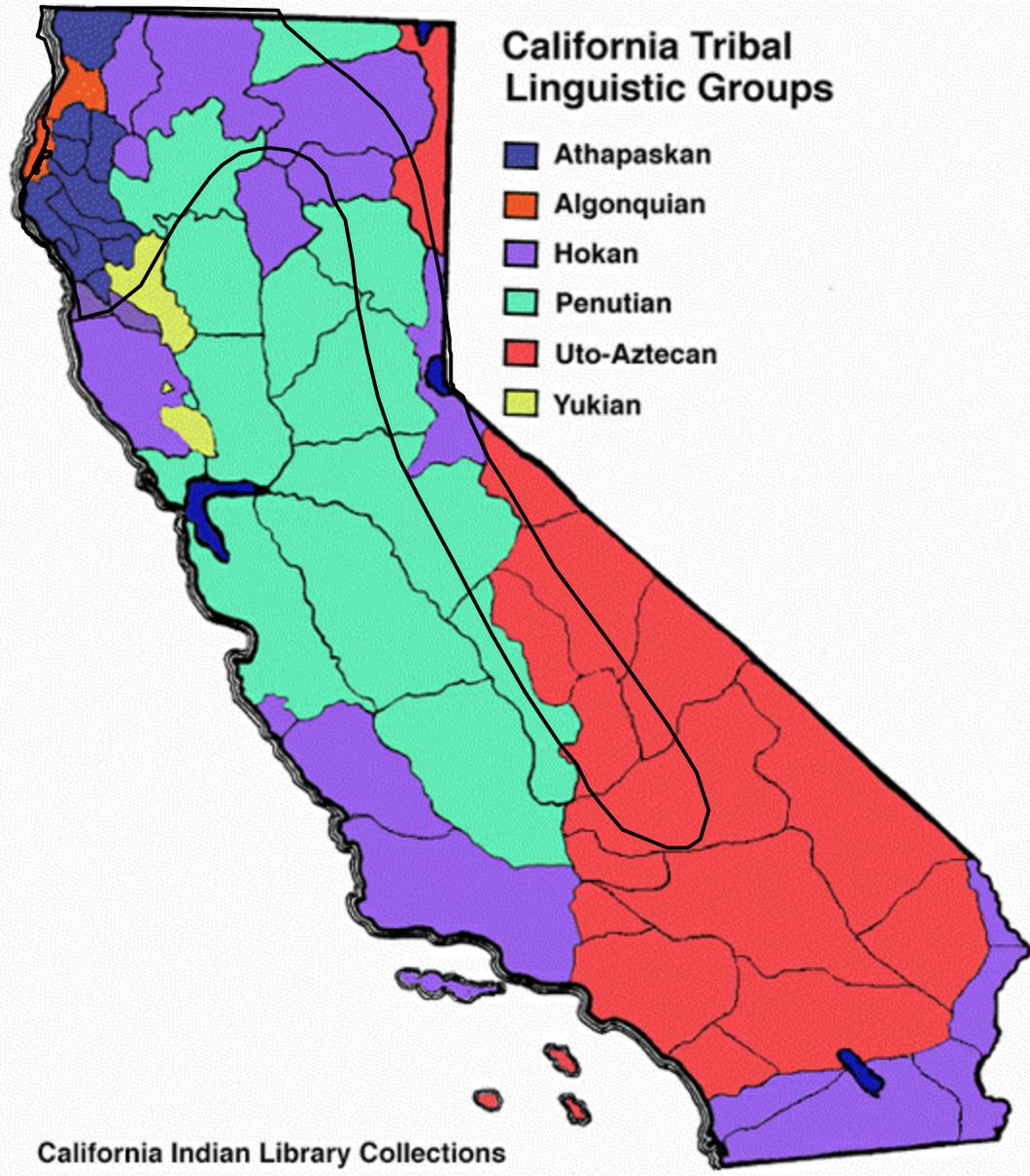


American Indian Pop. by State

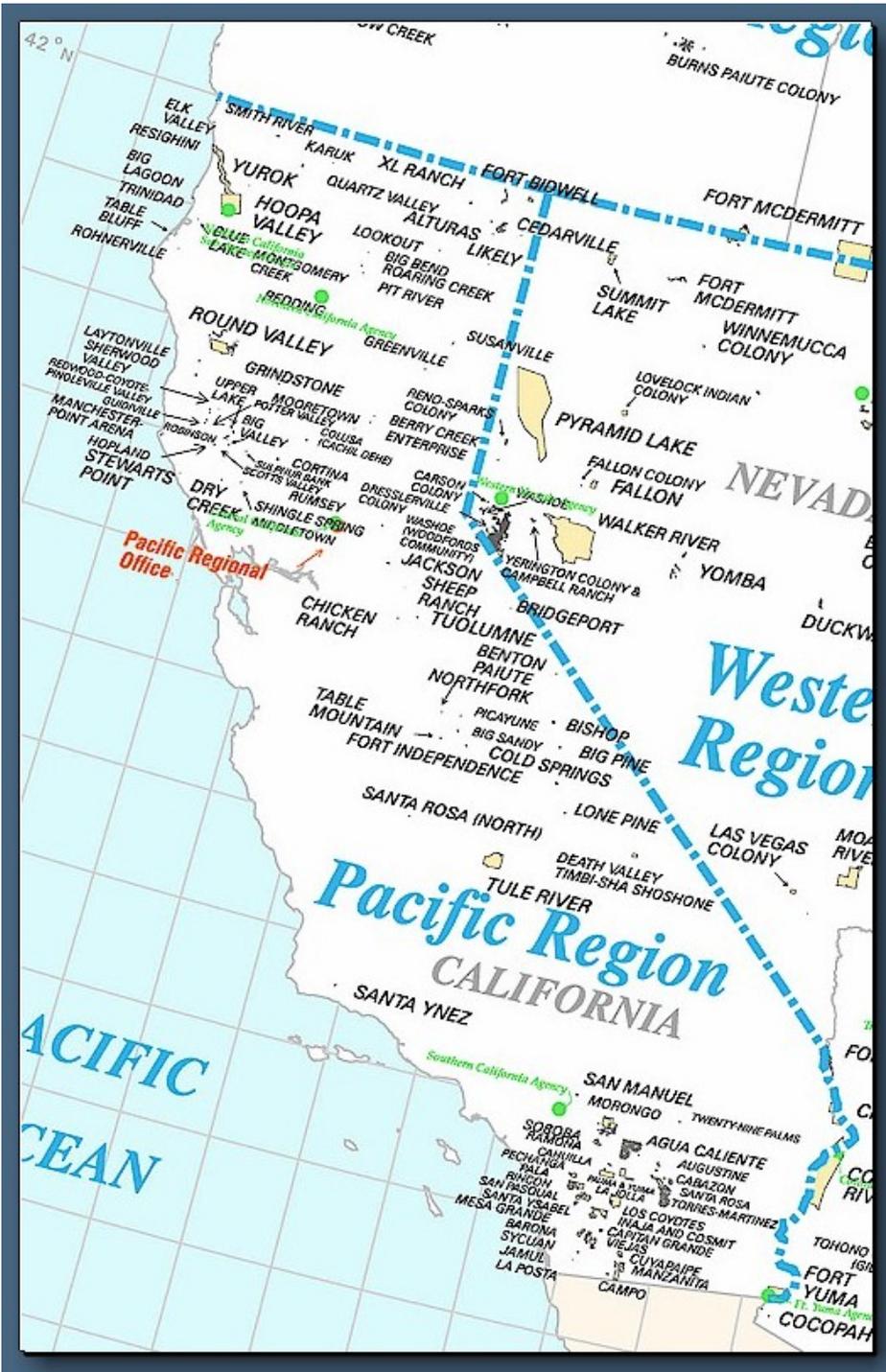


California Indian Pre-contact Tribal Territories



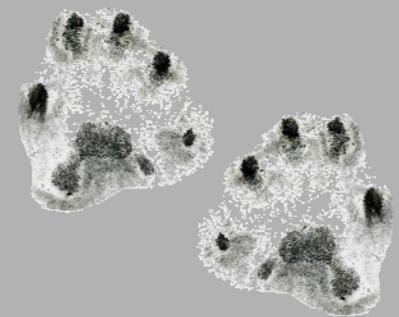


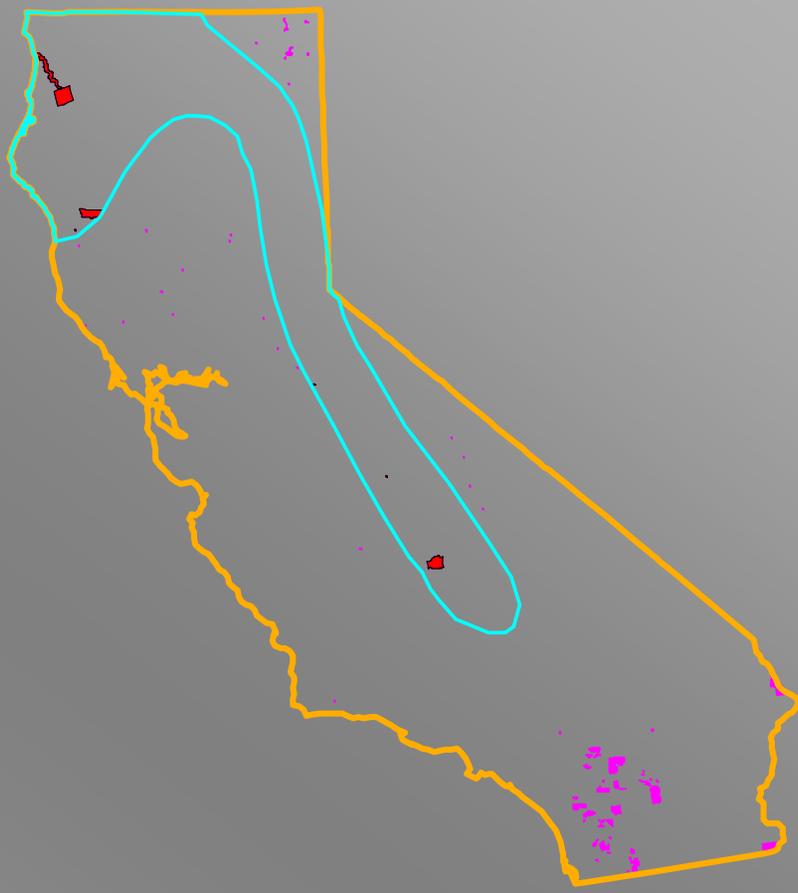
California Indian Library Collections

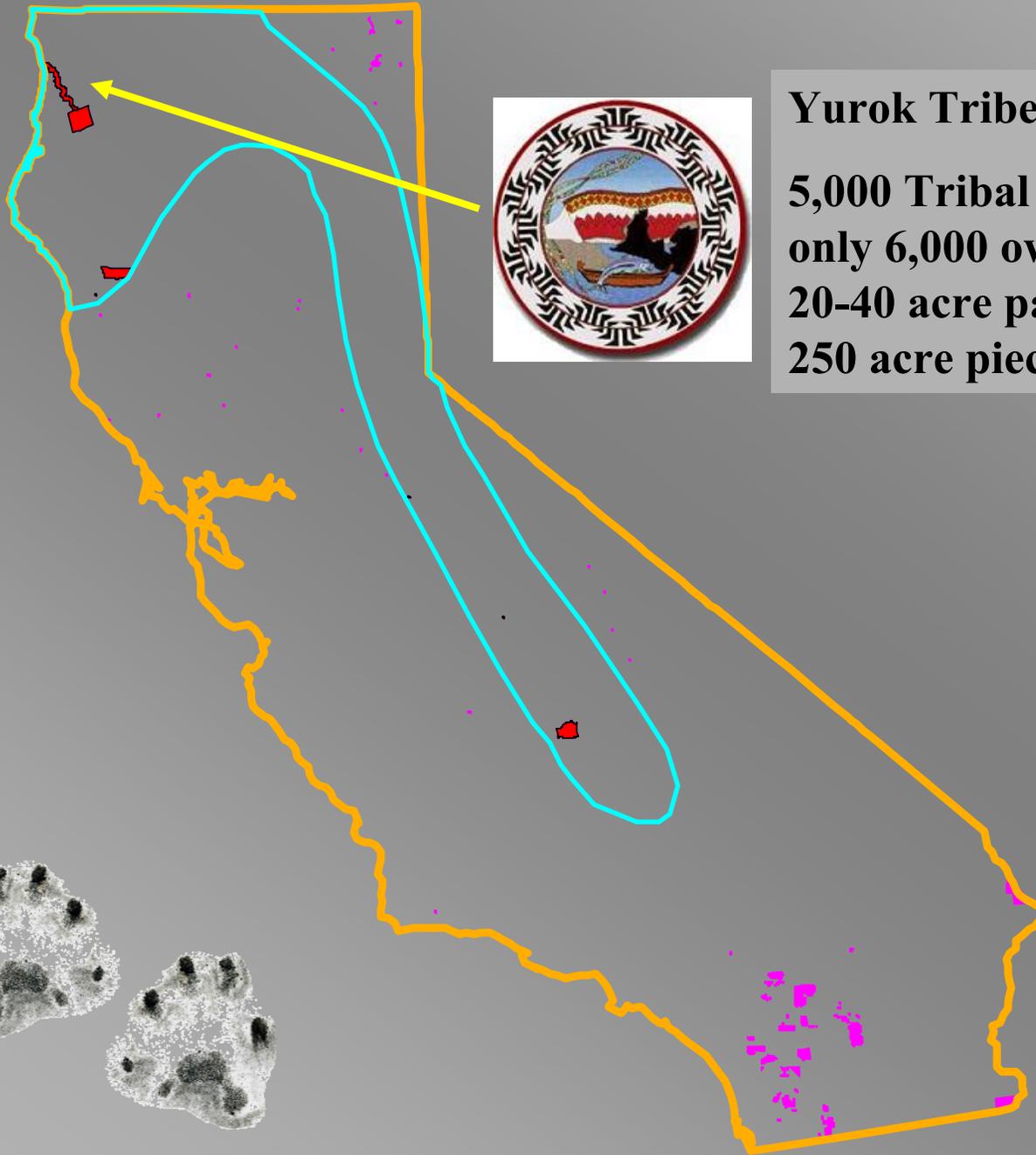


| Federally Recognized Tribes | Square miles of Trust Lands | Population on Tribal Lands | Statewide Population |
|-----------------------------|-----------------------------|----------------------------|----------------------|
| 121 | 1004 | 51,707 | 250,000* |

*approximate







Yurok Tribe

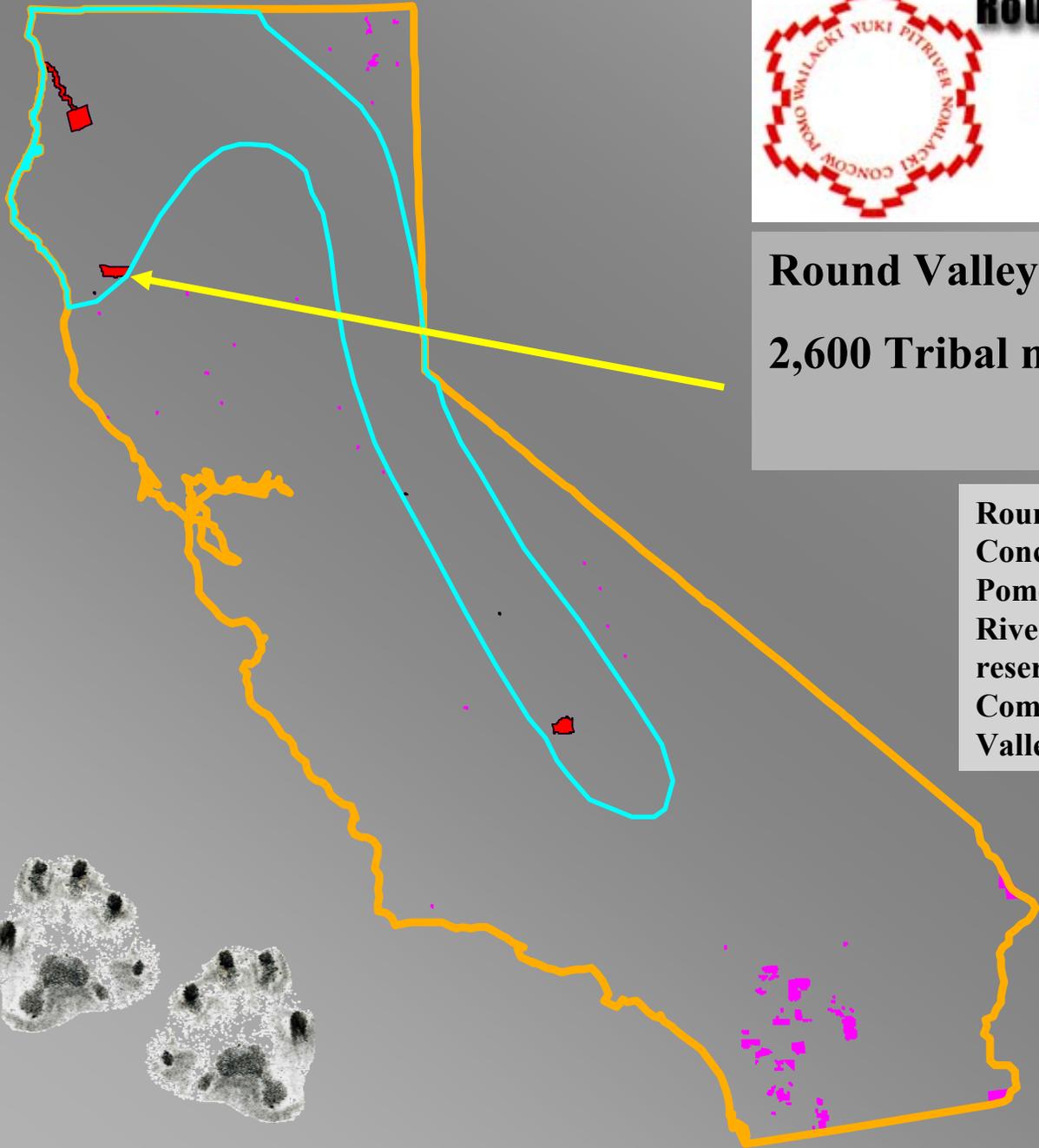
5,000 Tribal members. 63,000 acres only 6,000 owned by the Tribe in 20-40 acre parcels and several 200-250 acre pieces



Hoopa Tribe

2,200 Tribal members. 90,000 acres
nearly all owned by the Tribe





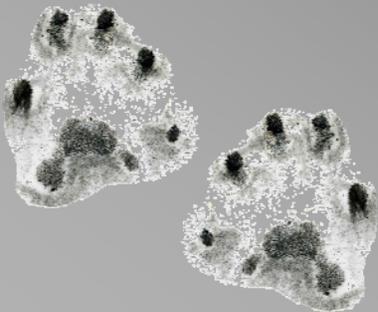
Round Valley Indian Tribes

**A Sovereign Nation Of
Confederated Tribes**

Round Valley Indian Tribes

2,600 Tribal members. 30,500 acres

Round Valley: The descendants of Yuki, Concow Maidu, Little Lake and other Pomo, Nomlaki, Cahto, Wailaki, Pit River peoples formed a new tribe on the reservation, the Covelo Indian Community, later to be called the Round Valley Indian Tribes.





Tule River Tribe

800? Tribal members. 55,000 acres
nearly all owned by the Tribe



| Fisher | | | |
|--------------|----------------|-----------------|-----------------|
| | Regalia | Cultural | Language |
| Hoopa | Yes | Yes | Yes |
| Karuk | Yes | Yes | Yes |
| Yurok | Yes | Yes | Yes |
| Tule River | No | No | No |
| Round Valley | No | No | No |
| Smith River | Yes | Yes | ? |



| Marten | | | |
|--------------|----------------|-----------------|-----------------|
| | Regalia | Cultural | Language |
| Hoopa | No | No | No |
| Karuk | Maybe | Maybe | Yes-generic |
| Yurok | Yes | Yes | |
| Tule River | No | No | No |
| Round Valley | No | No | No |
| Smith River | Yes | Yes | ? |



Karuk: Fisher = tatkunuhpiithvar

“he that dances around stoop-shouldered”

Base Linguistic Group = Hokan



**Hupa: Fisher/Pine Marten = ‘ista:ngq’eh-
k’itiqowh**

“log-along-it scampers”

Base Linguistic Group = Athapaskan



Yurok: Fisher = Lẽ-gow

Base Linguistic Group = Algonquin



Cultural Significance





Management Issues on Tribal Lands

Tule River Reservation: 85 square miles, 15,000 acres of mixed conifer forests at 5,000' to 7,500' Elevation



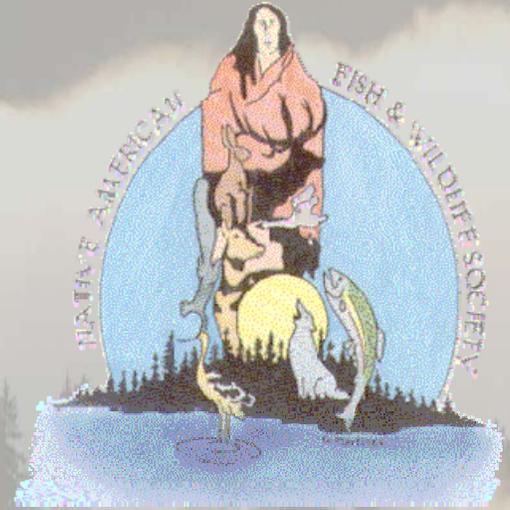
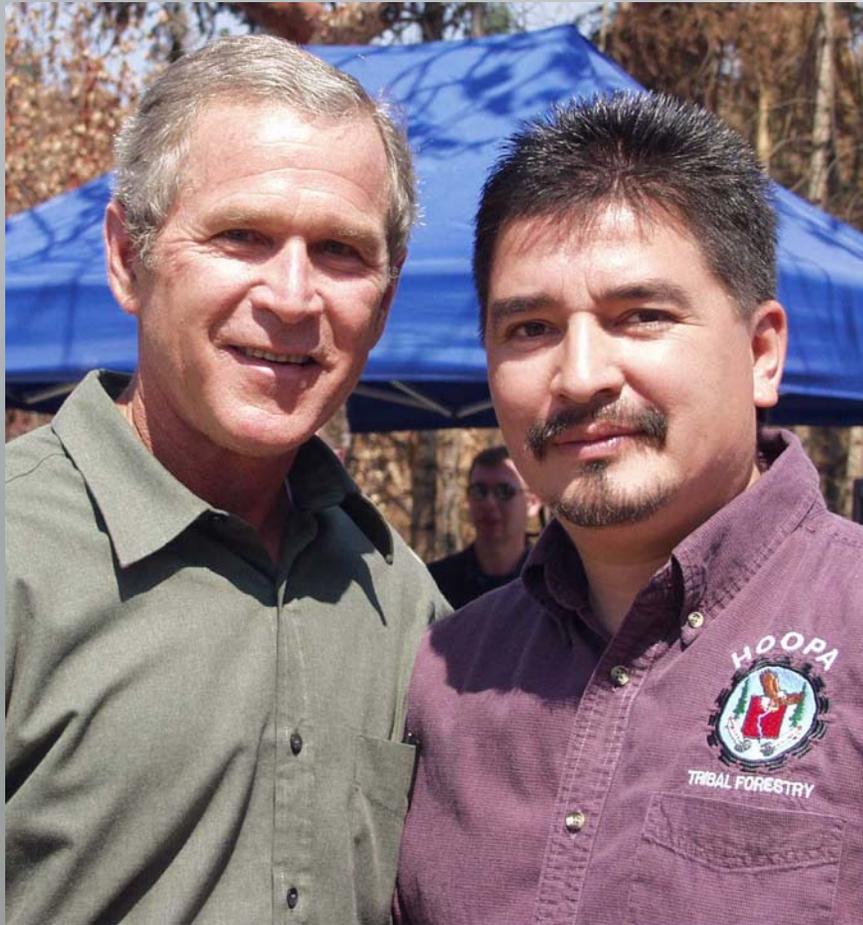












critfc
The
Columbia River
Inter-Tribal
Fish Commission





Science and Research on Tribal Lands



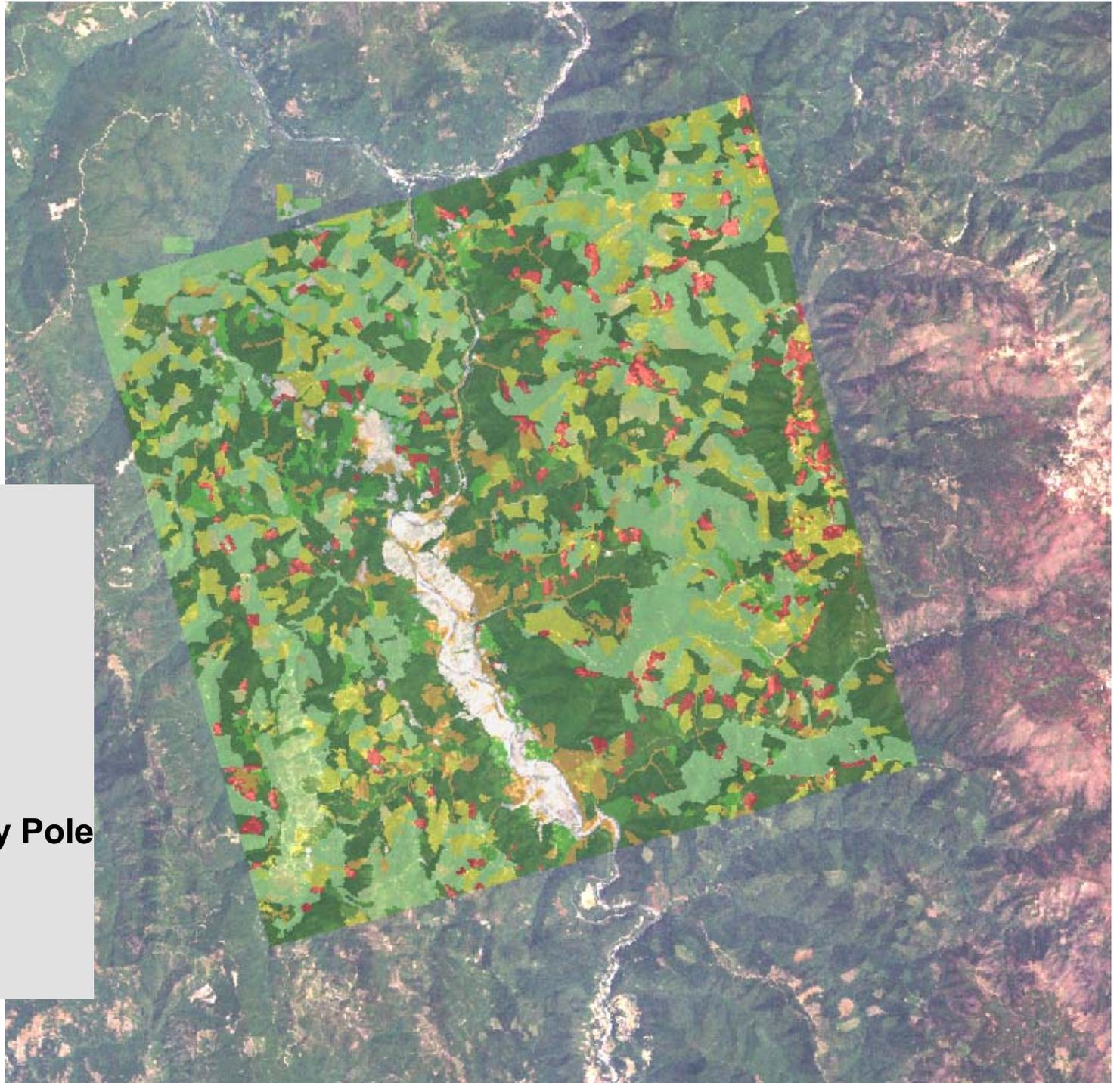
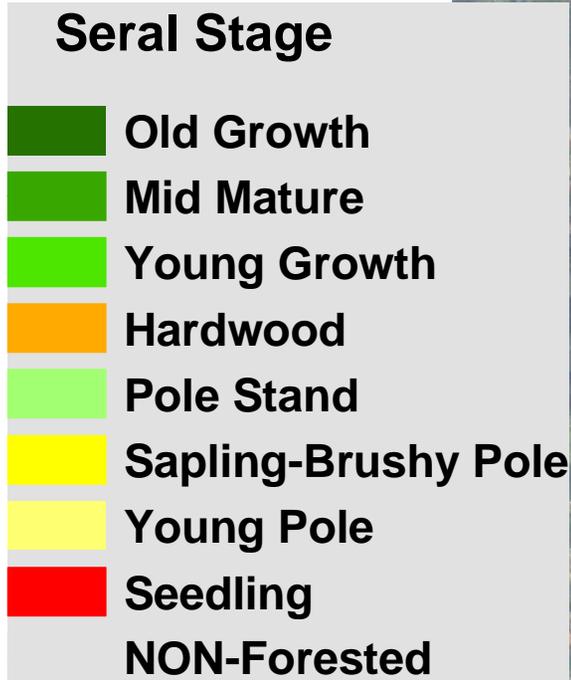
**Radio Telemetry
Study 1996-98,
2004-Present**



Fisher Release

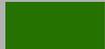
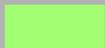
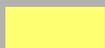
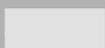


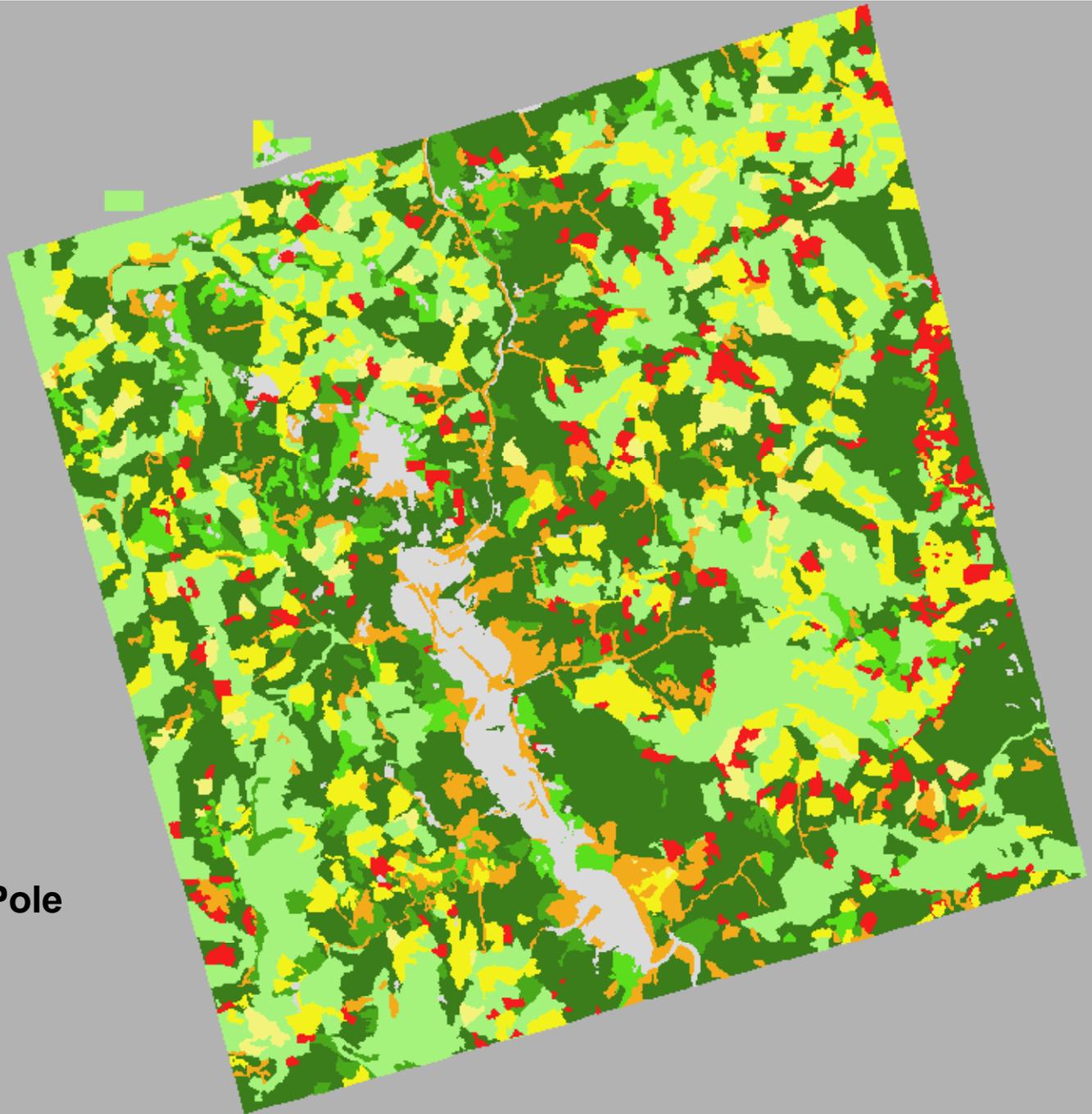
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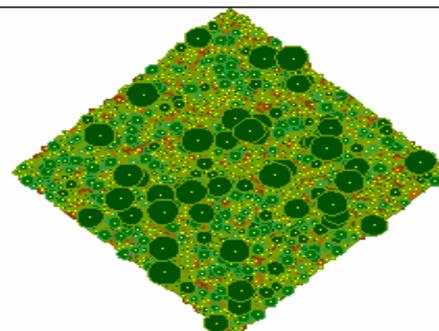
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Seral Stage

-  Old Growth
-  Mid Mature
-  Young Growth
-  Hardwood
-  Pole Stand
-  Sapling-Brushy Pole
-  Young Pole
-  Seedling
-  NON-Forested

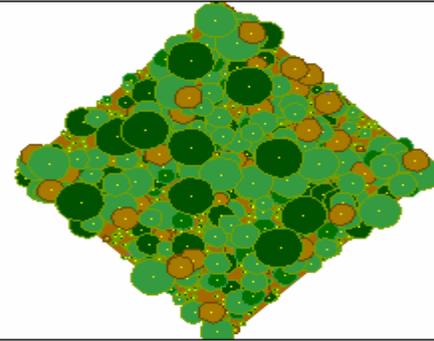


Stand: SBP-163 Year: 1996 (100 Ft. Rangepole)





Stand: PS-123 Year: 1996 (100 Ft. Rangepole)



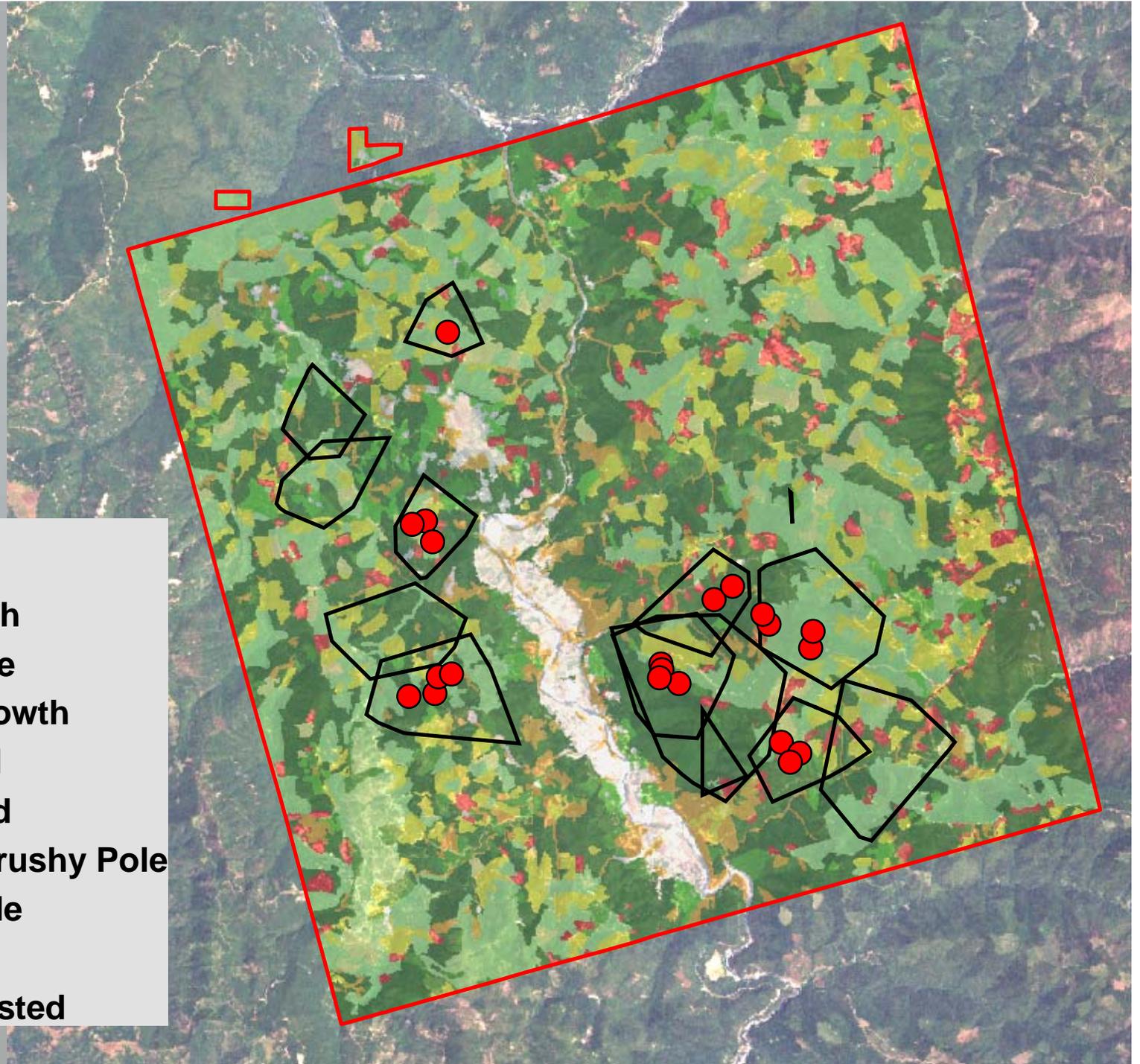


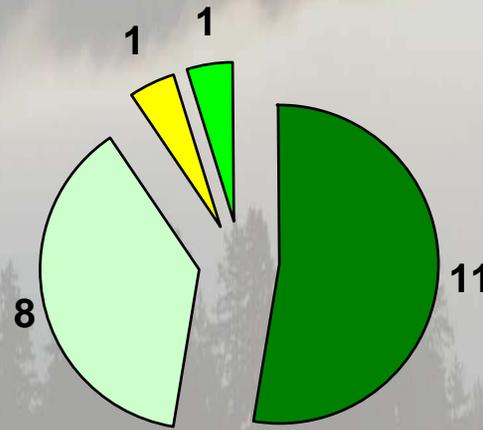


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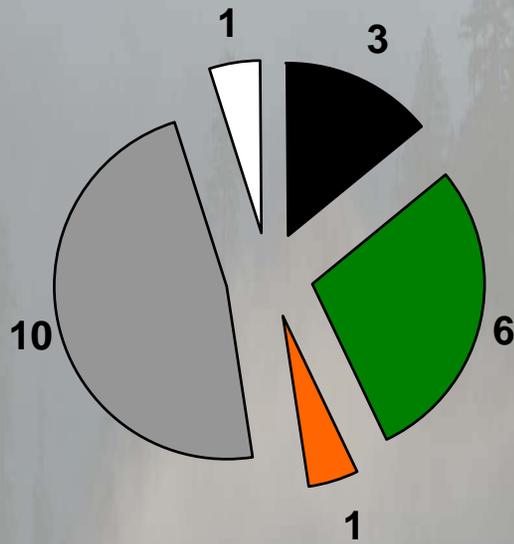
Seral Stage

- Old Growth
- Mid Mature
- Young Growth
- Hardwood
- Pole Stand
- Sapling-Brushy Pole
- Young Pole
- Seedling
- NON-Forested





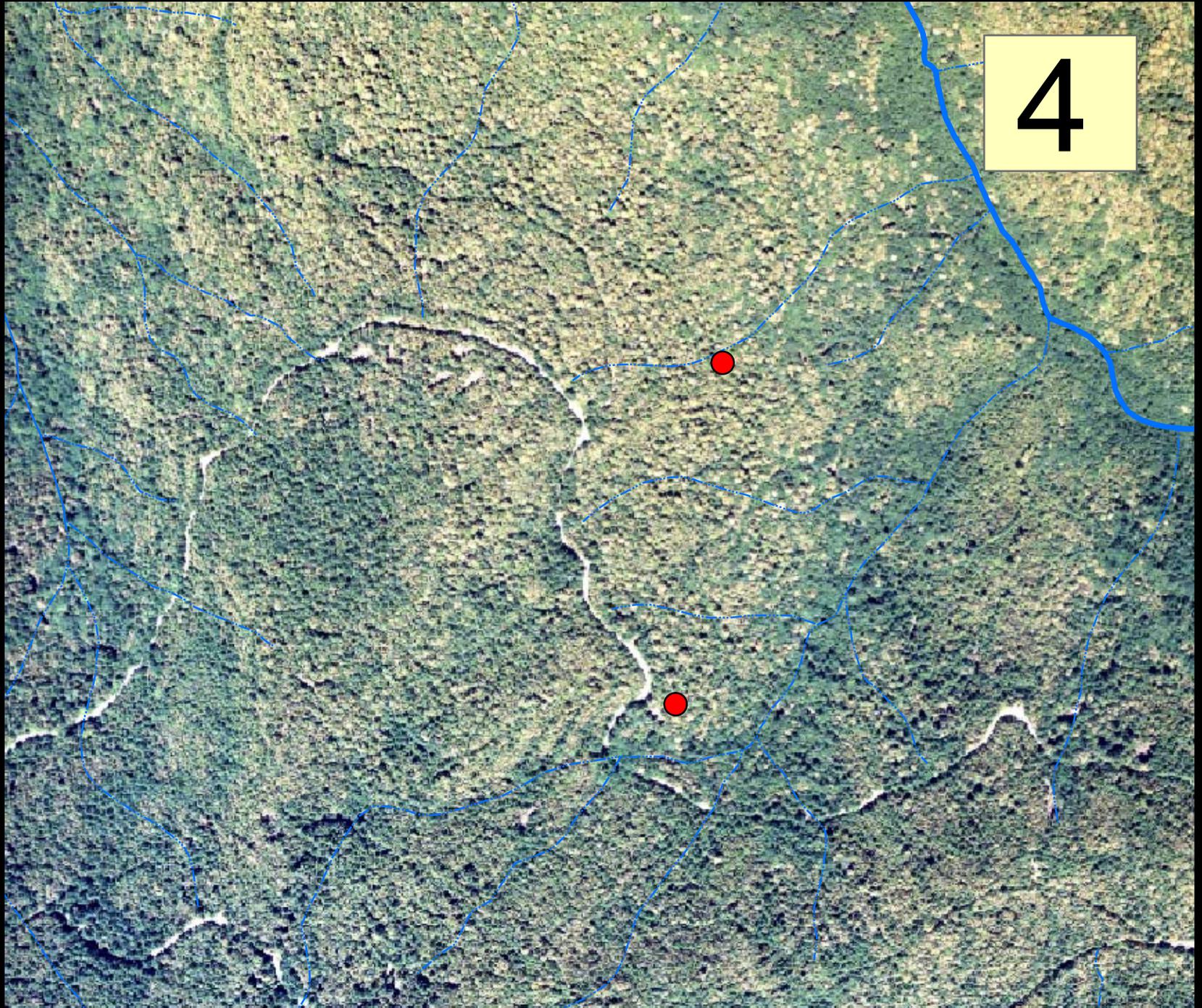
- Old Growth
- Pole Stand
- Sapling-brushy Pole
- Young Growth



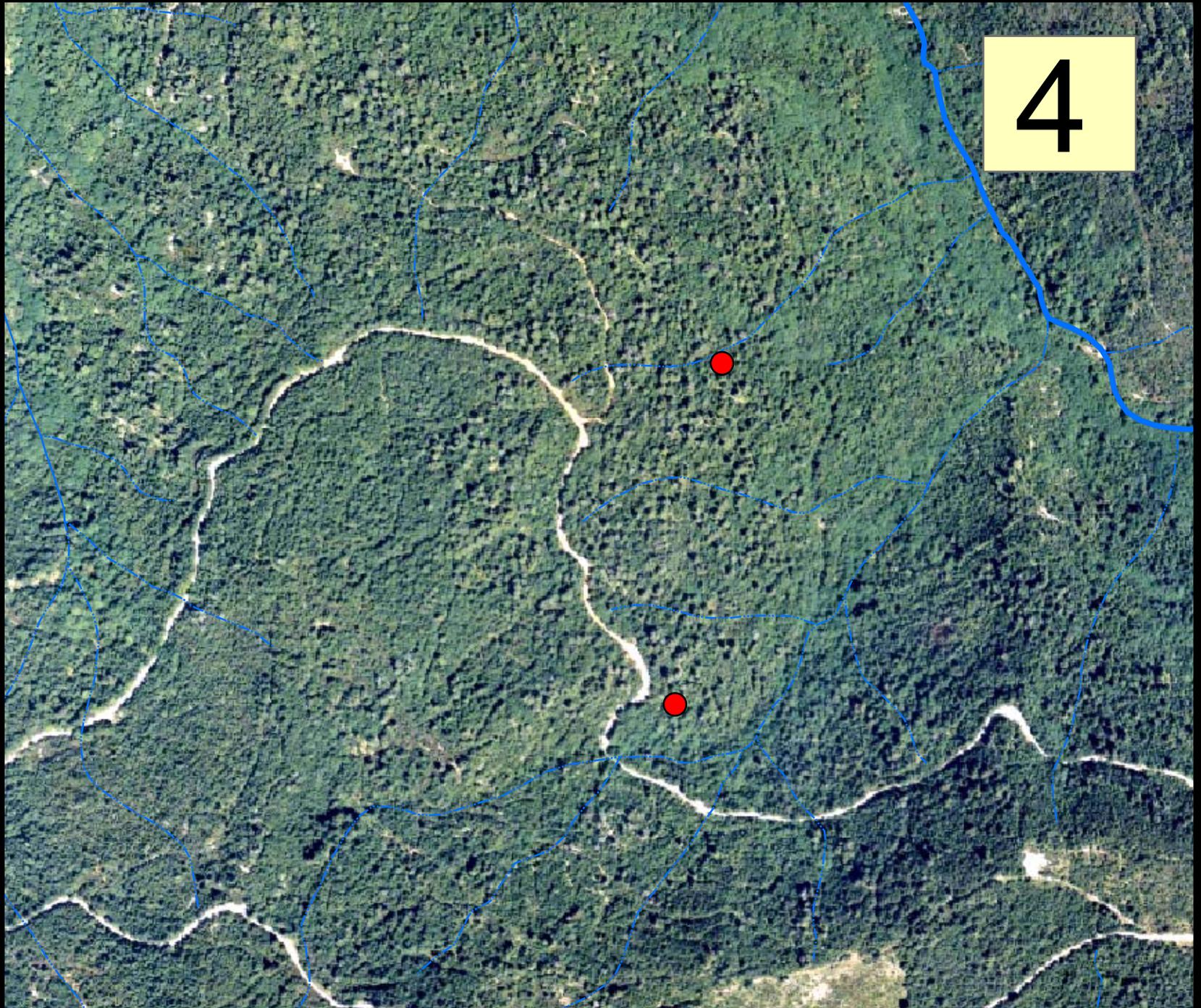
- Black Oak
- Douglas Fir
- Modrone
- Tanoak
- White Oak

| | Live Tree | Snags |
|----------|-----------|-------|
| Hardwood | 12 | 3 |
| Conifer | 1 | 5 |

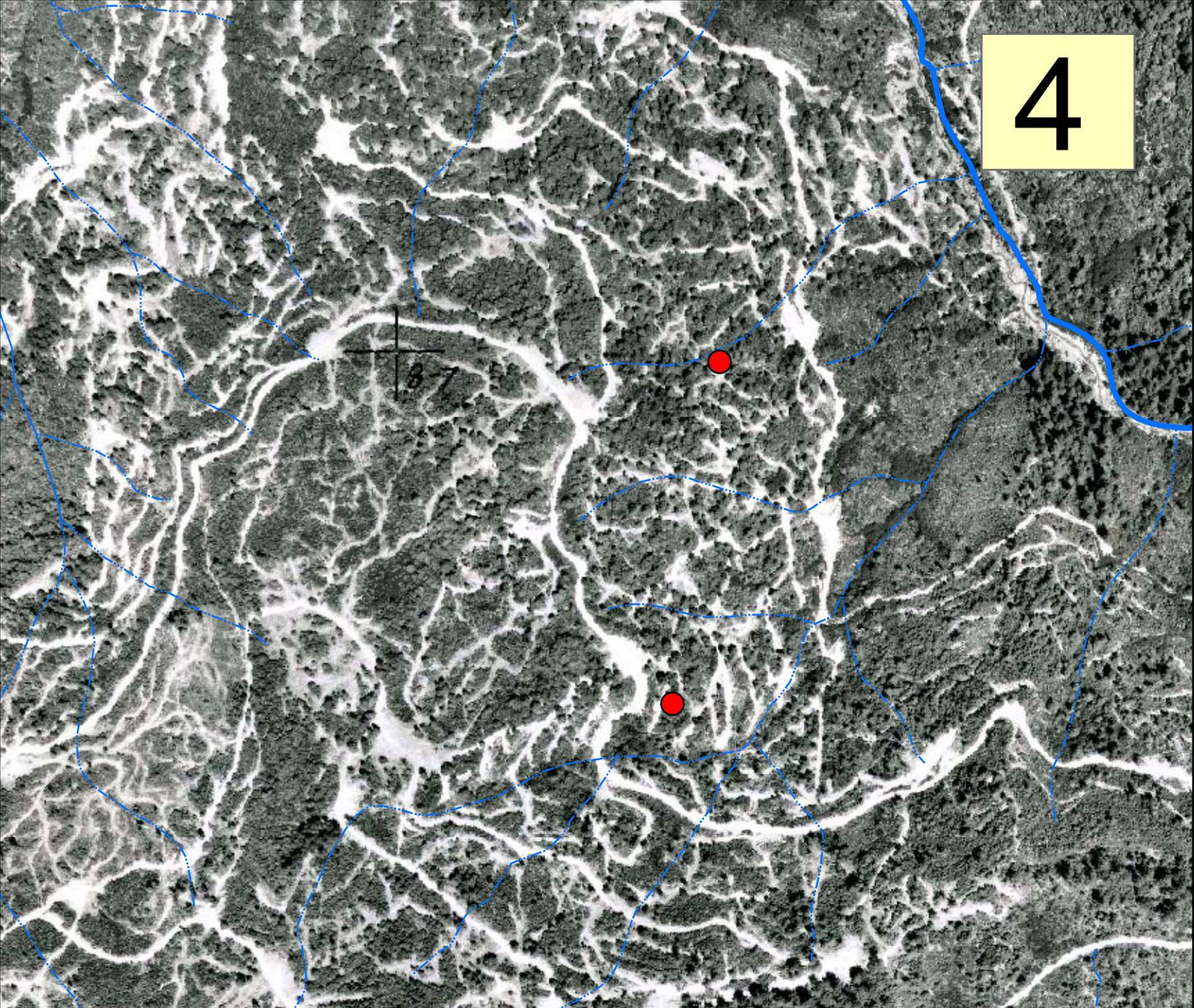
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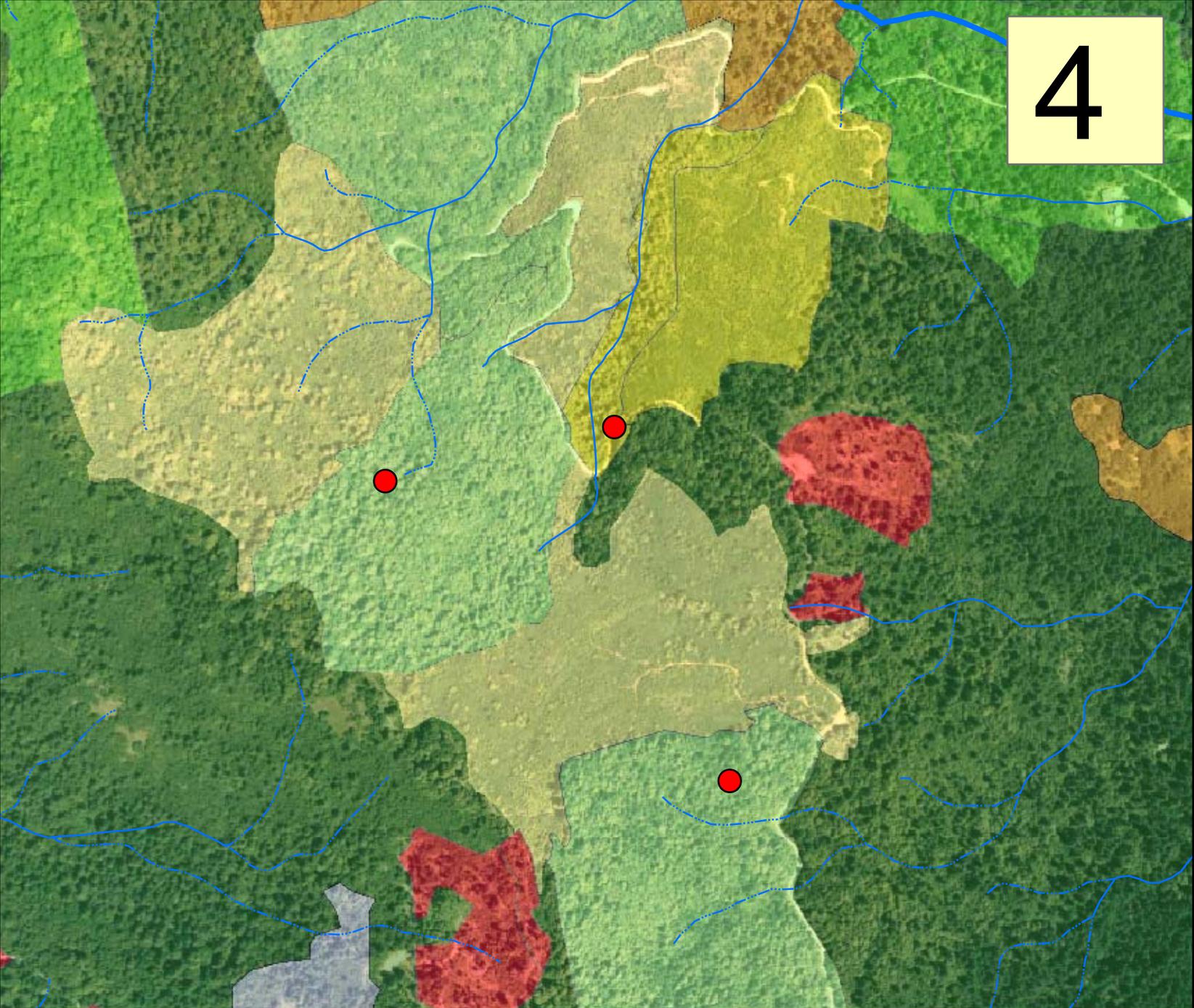
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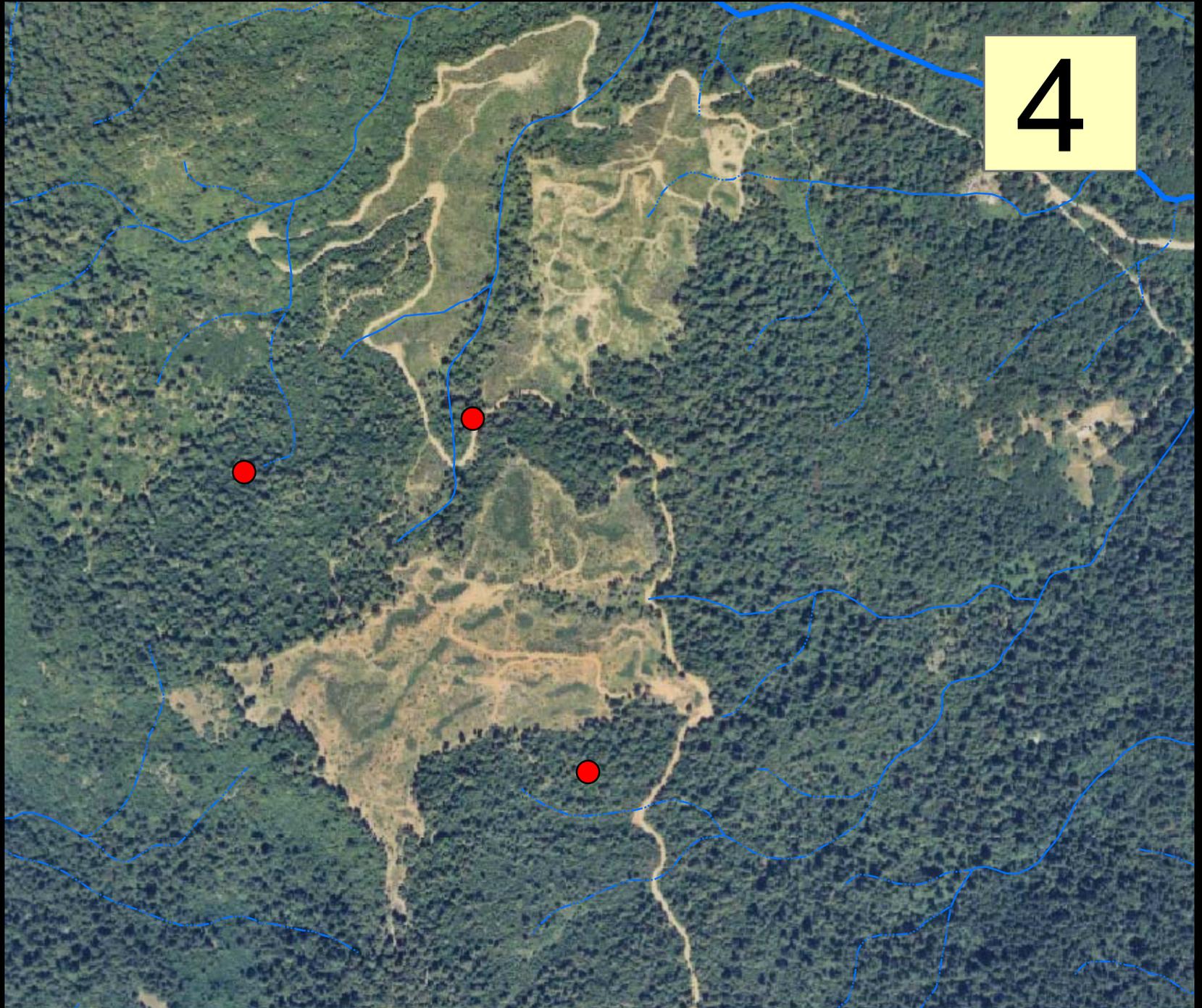
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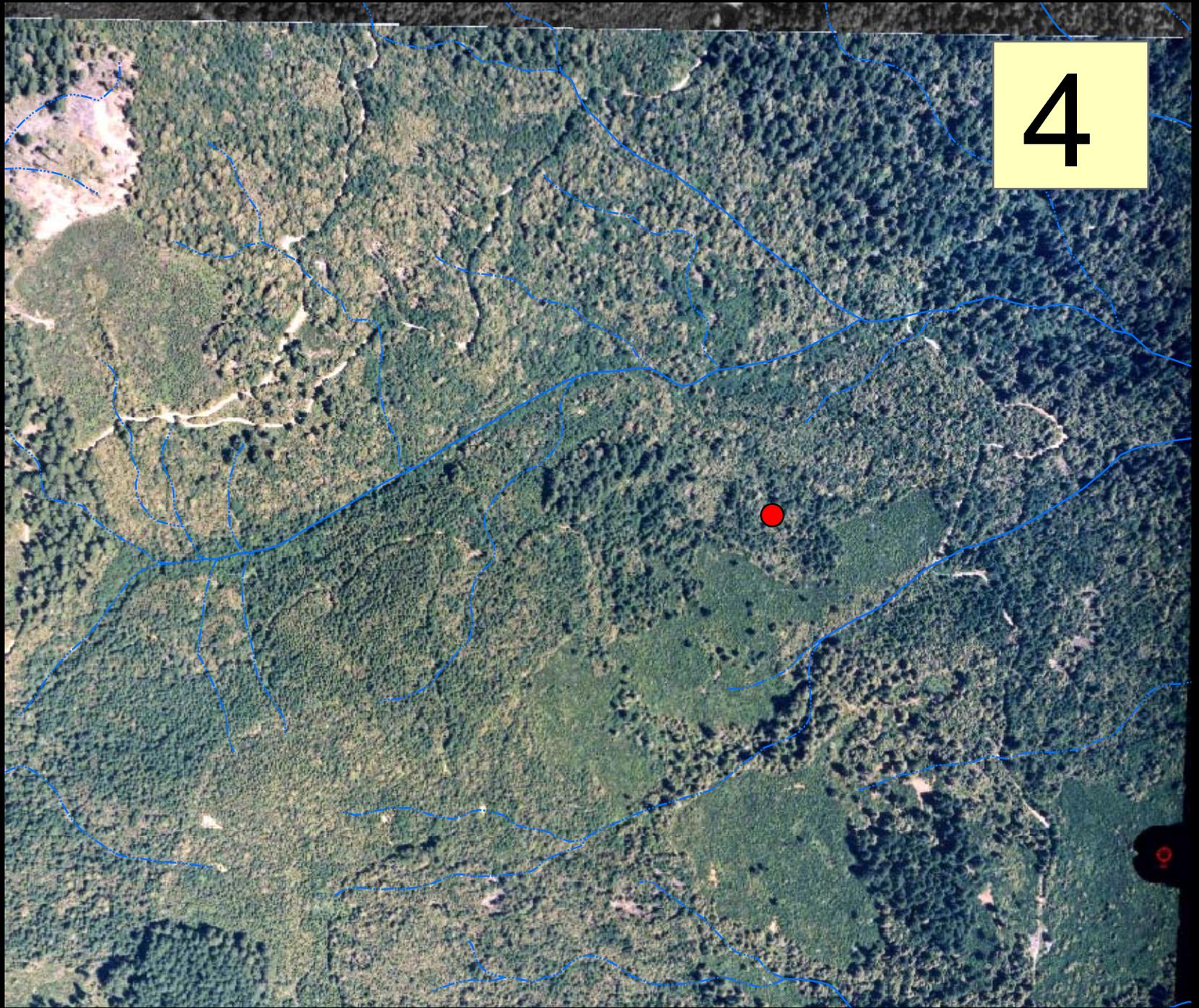
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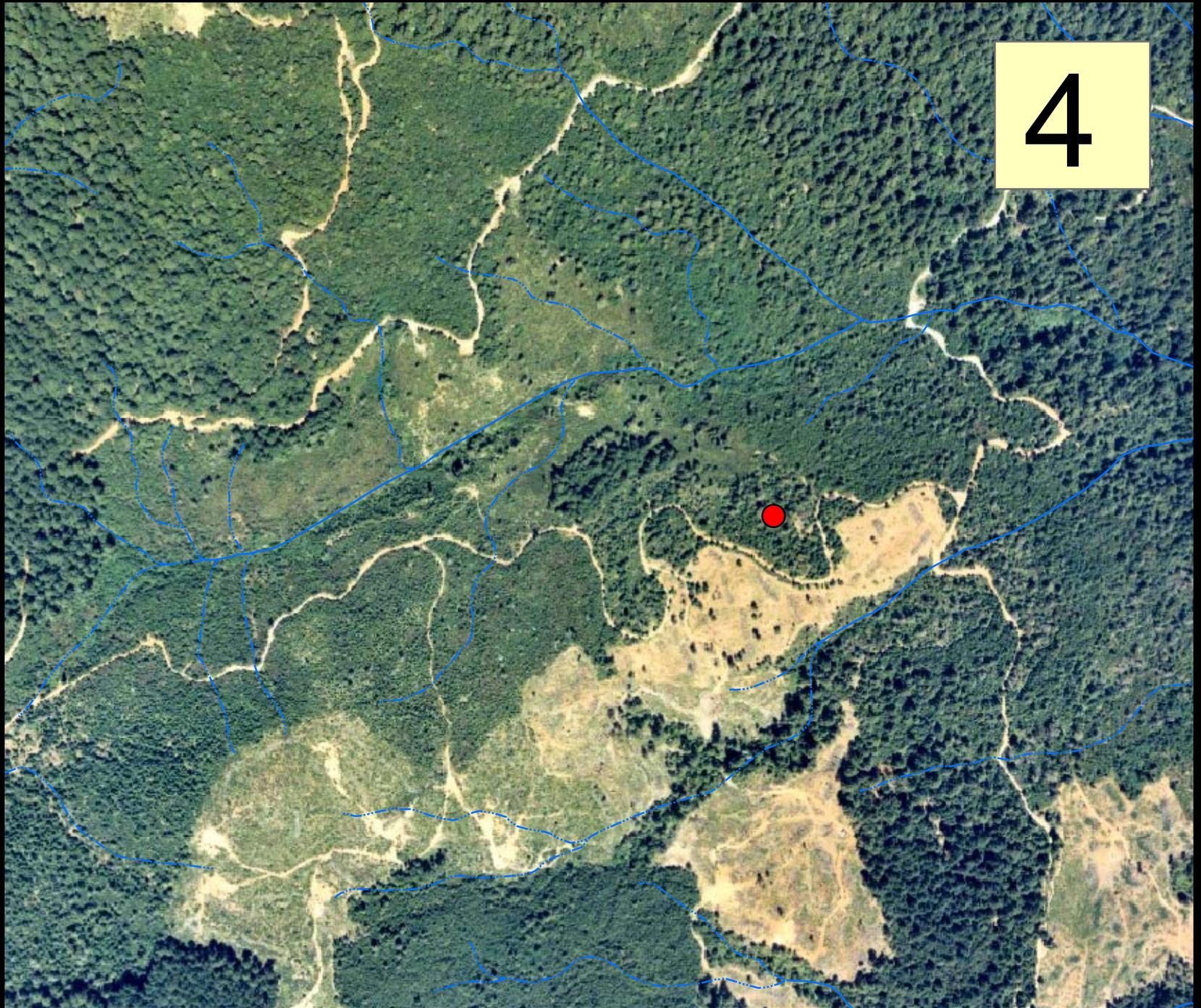
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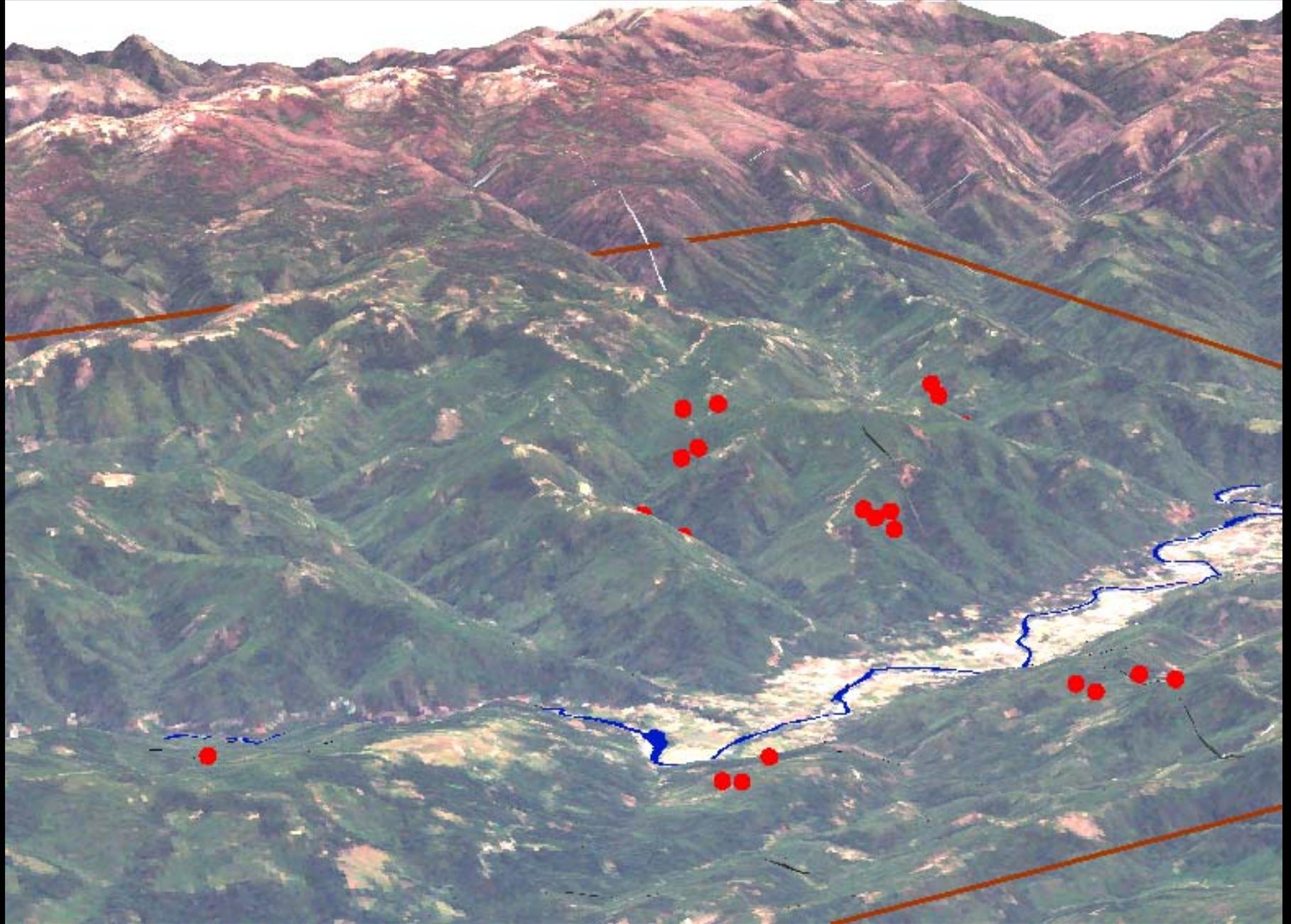
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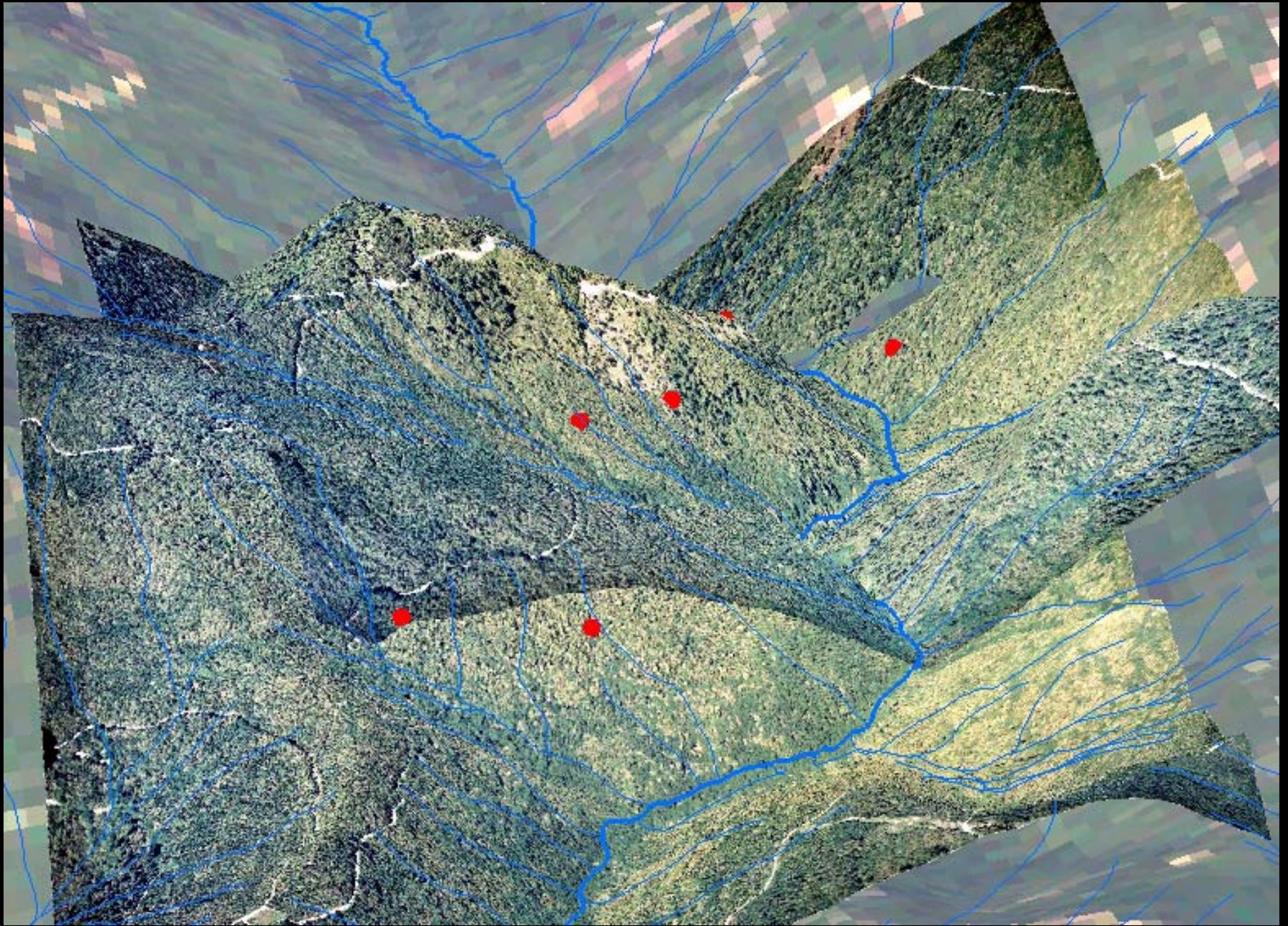




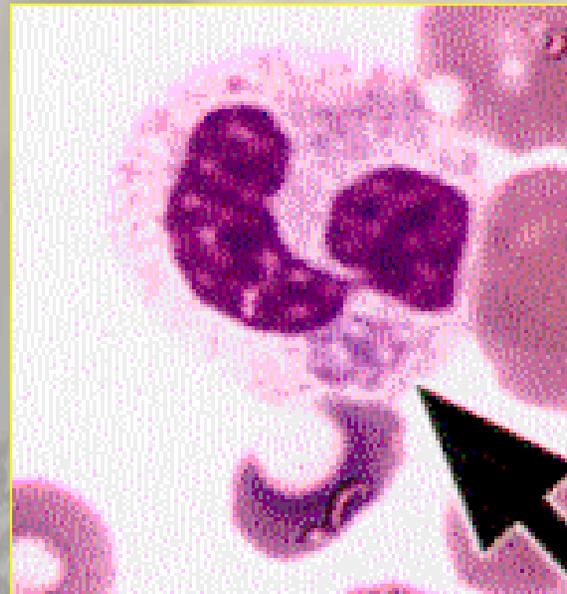


Hoop Valley Tribe

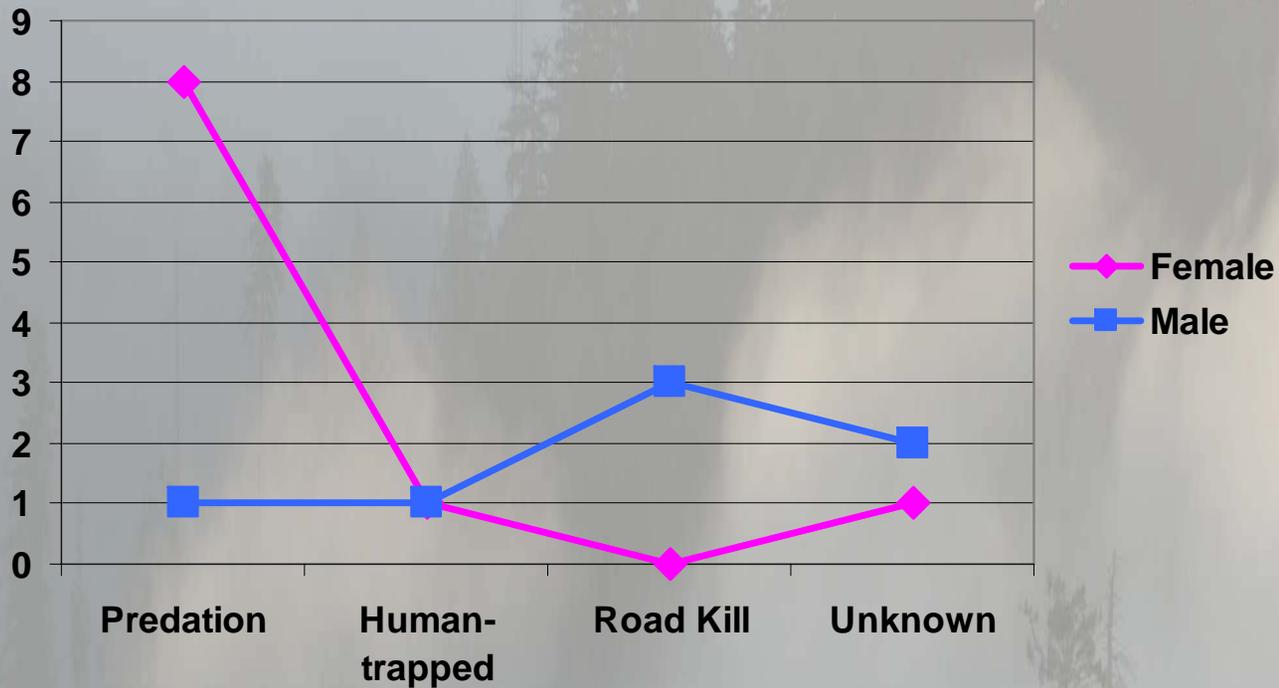
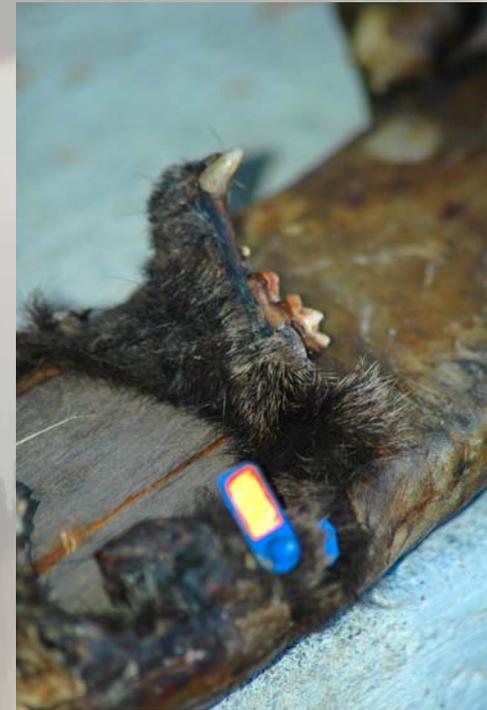


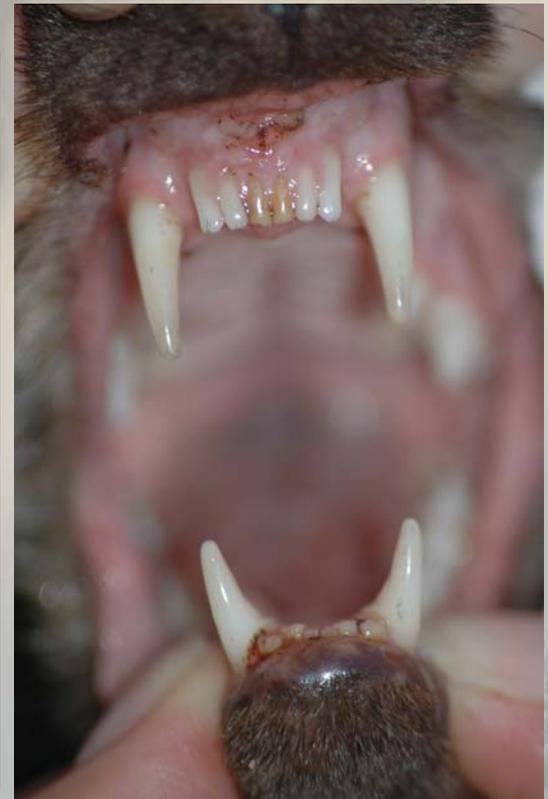






Causes of Fisher Mortality in the Hoopa Vicinity 1996-2005





Long-Term Population Monitoring



Winter 2005 Genetic Results

36 Samples

5 variable markers

$$H_E = 0.43$$



Dispersal Feasibility...



Hoopla Forest Management



Hoopla Valley Tribe



Hoopa Valley Tribe

Past Practices: BIA

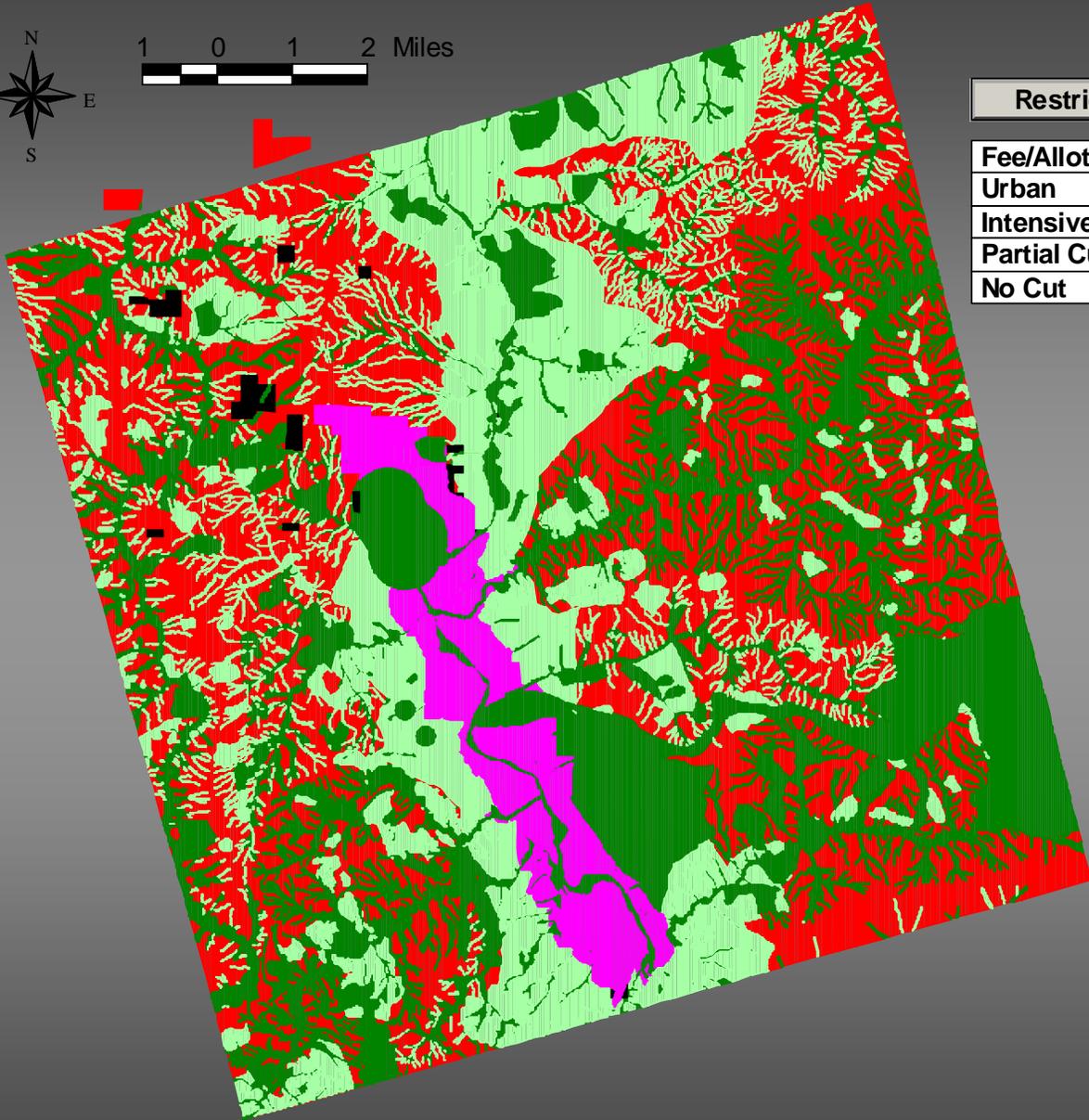
Management 1955-1989



Hoop Valley Tribe



1 0 1 2 Miles



| Restriction | Acres | Percent |
|---------------|---------|---------|
| Fee/Allotment | 583.0 | 0.6 |
| Urban | 4309.4 | 4.8 |
| Intensive | 40206.1 | 44.3 |
| Partial Cut | 18400.1 | 20.3 |
| No Cut | 27268.1 | 30.0 |

**FMP Landbase
Restrictions**

-  NO CUT
-  INTENSIVE
-  PARTIAL CUT
-  URBAN
-  FEE/ALLOT

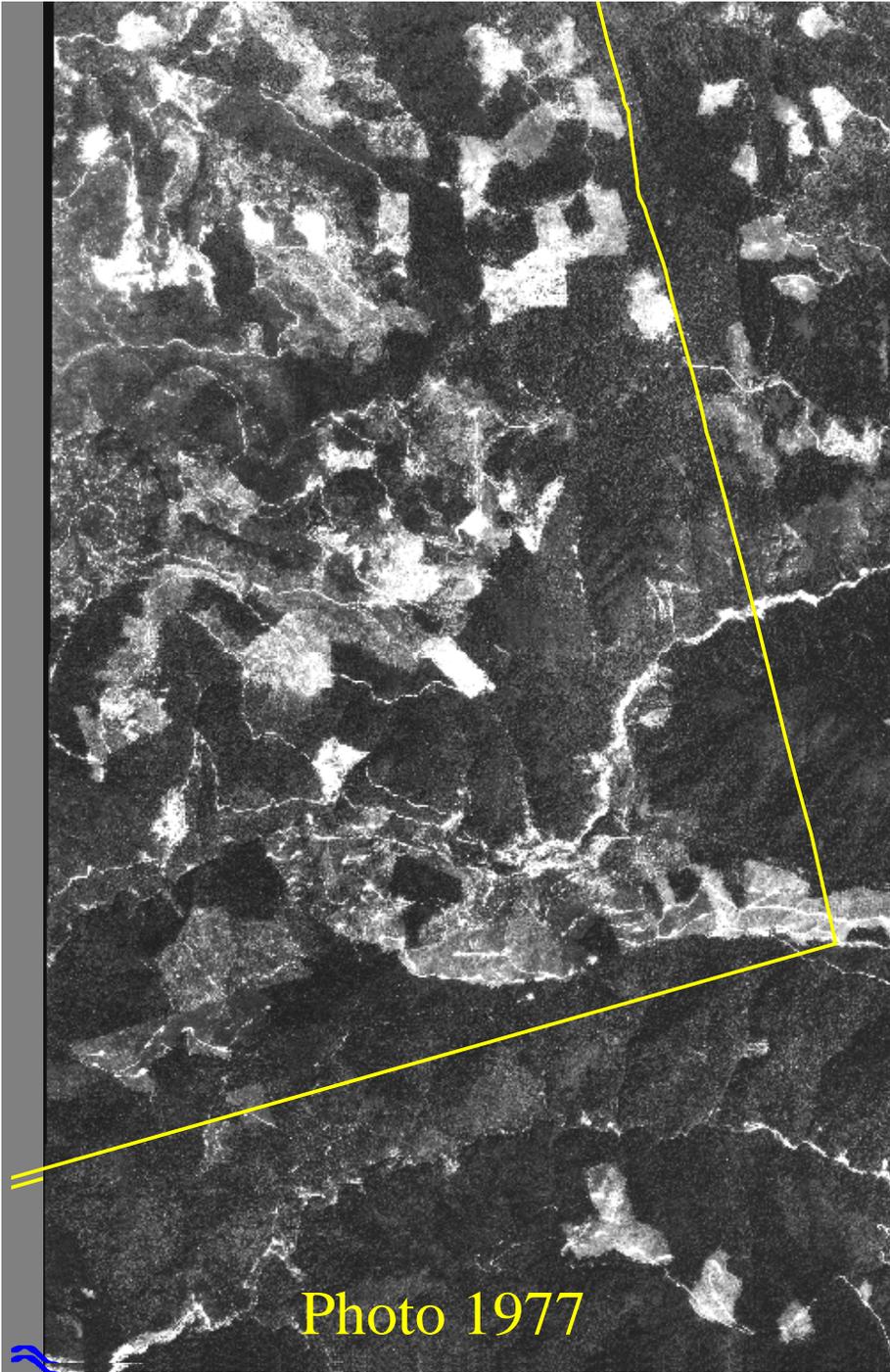


Photo 1977

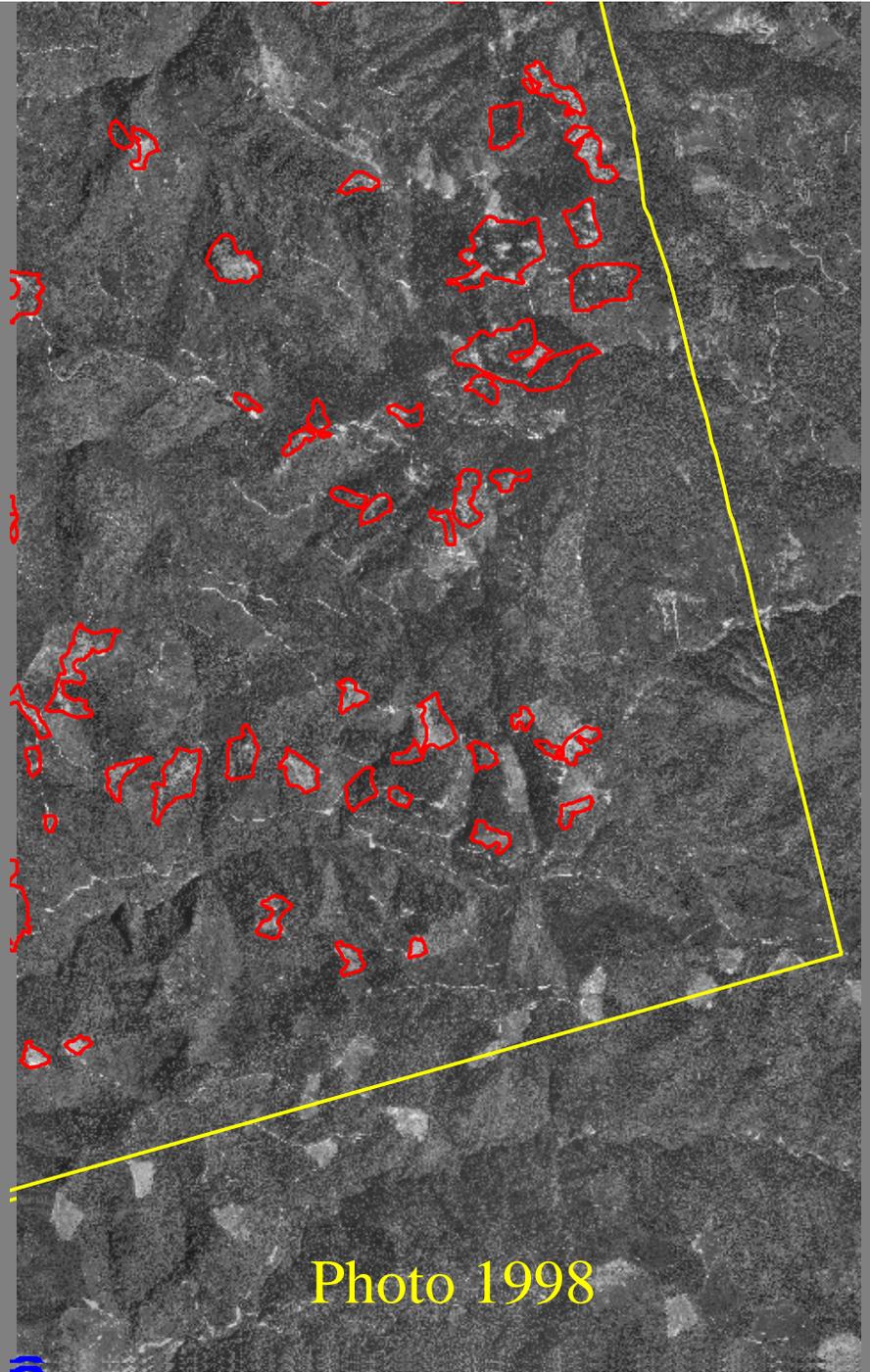


Photo 1998

In Conclusion...

