Nevada Statewide Golden Eagle Nest Site Survey Project

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Golden Eagle Status

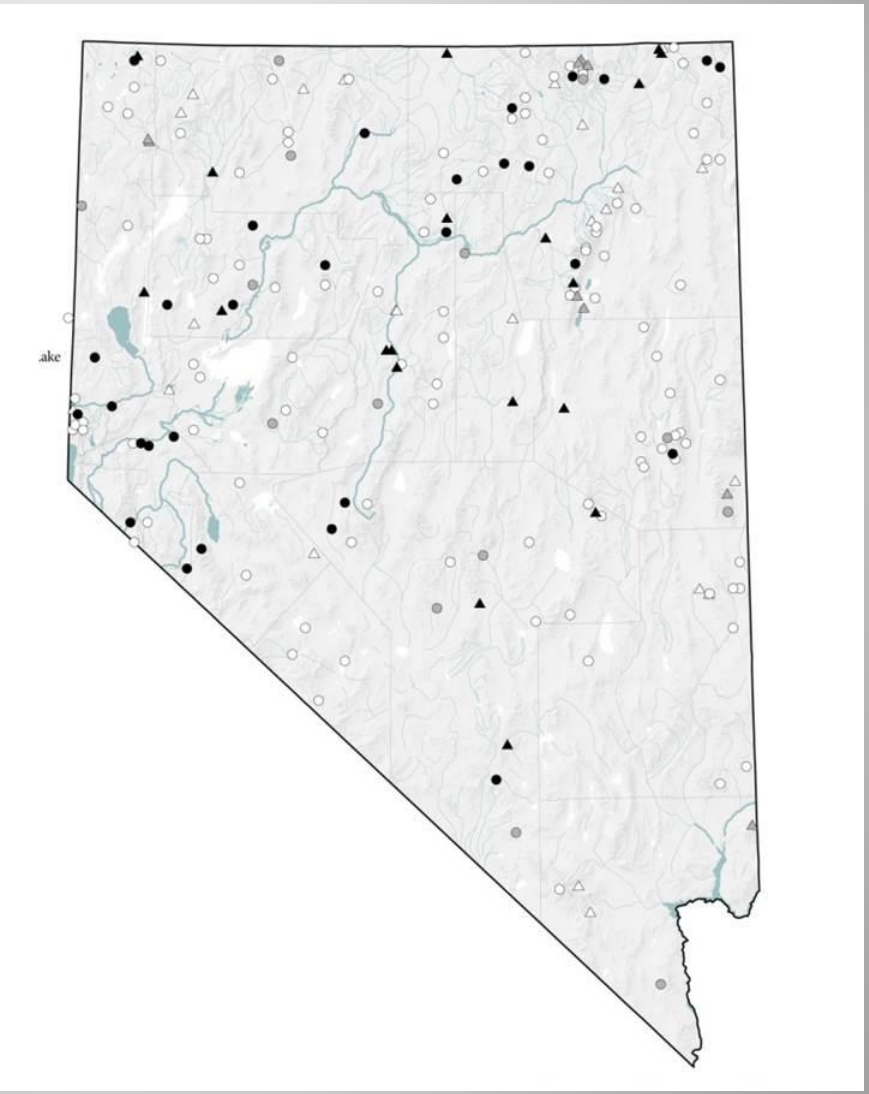
- Western US: 30,000?
- Trends: Stable to slowly declining (1968 – 2010)
- Vulnerable to energy development

Needs in NV

- BLM
- Nevada population size and distribution
- Guidance for energy development projects

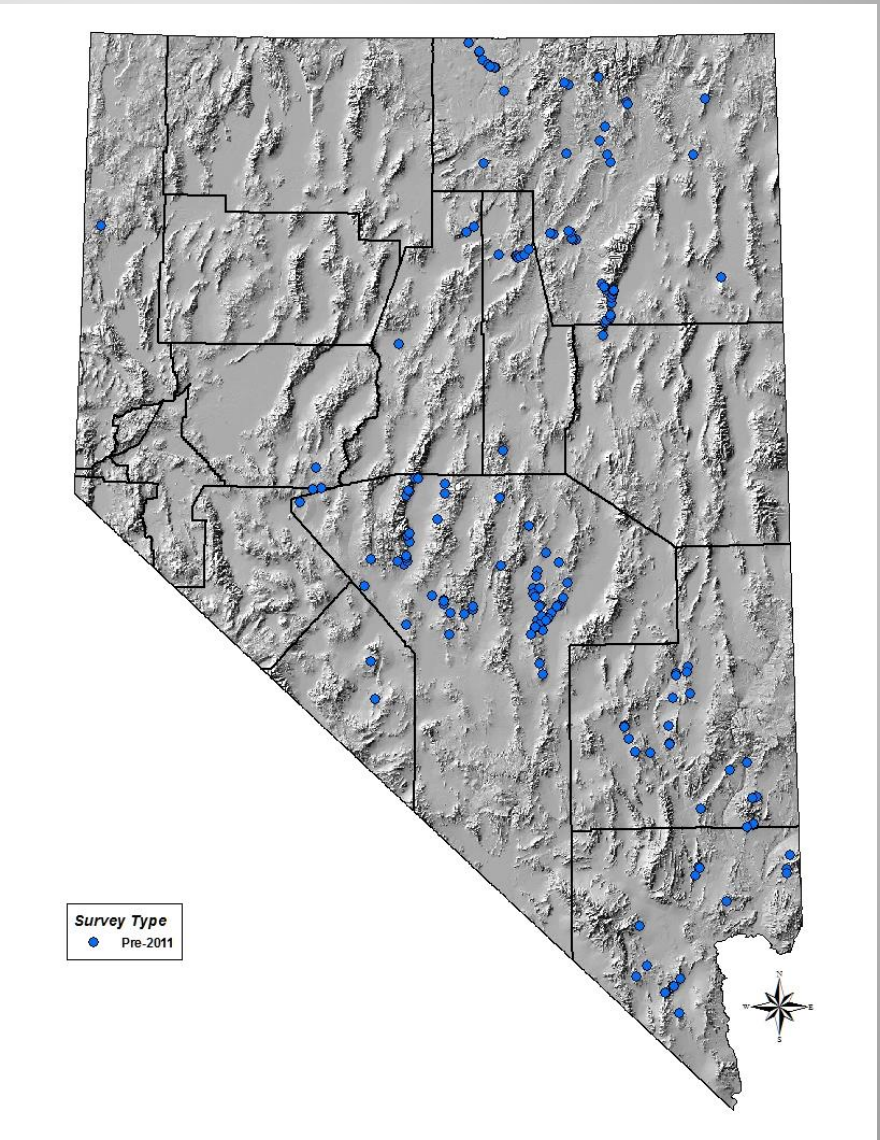
Nevada Eagle Data : Pre-2011

- NV Atlas
- Nevada Bird Count
- BBS
- Winter raptor counts



Nevada Eagle Data : Pre-2011

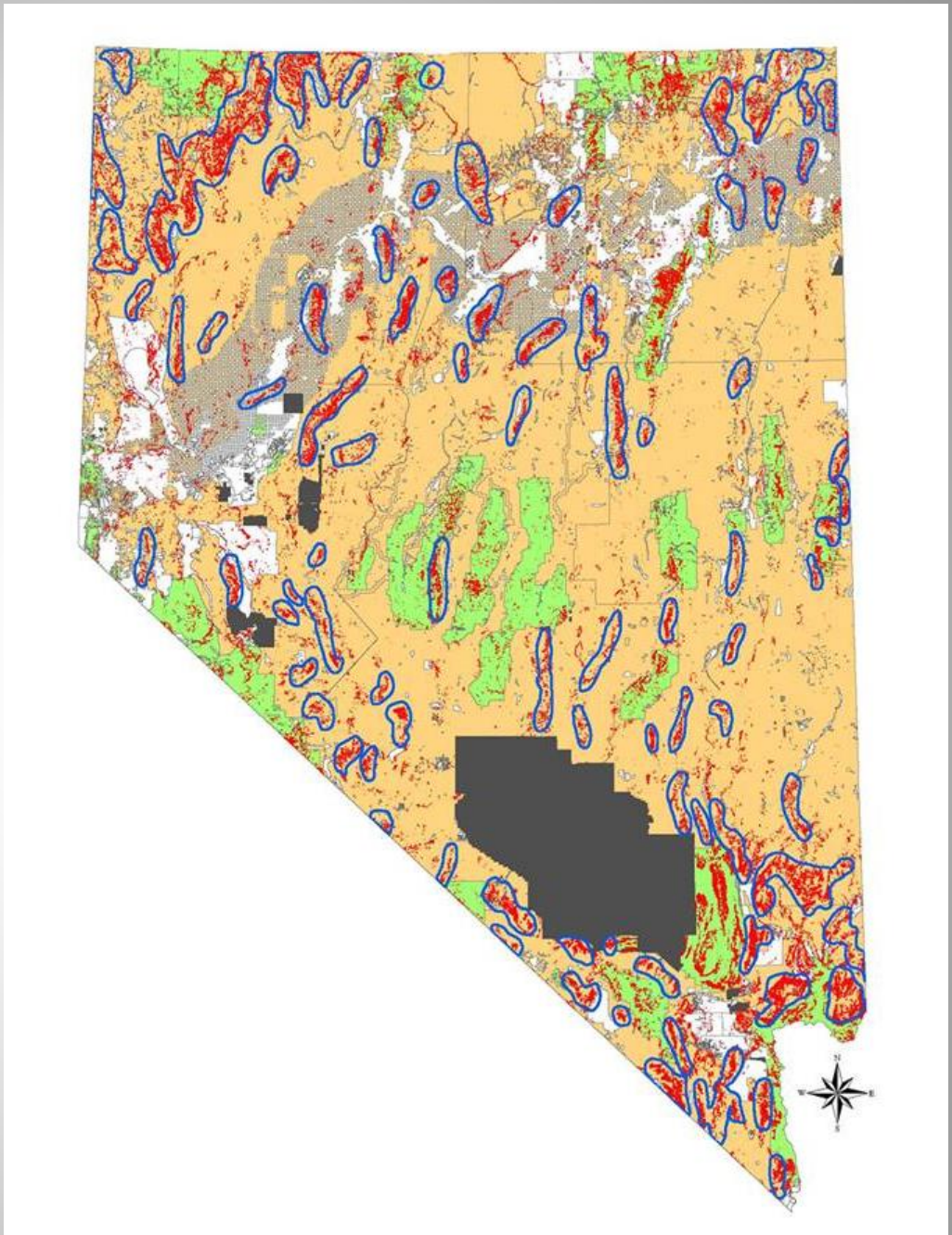
- NDOW Raptor Database



Project Rationale and Goals

- Existing data inadequate to support BLM needs
- Surveys for <u>nest sites</u> in <u>all</u> priority areas
- Map survey effort
- Generate representative results

Study Design: Prioritization



Study Design: Aerial vs. Ground

- Aerial
  - NDOW priority areas
  - Difficult access

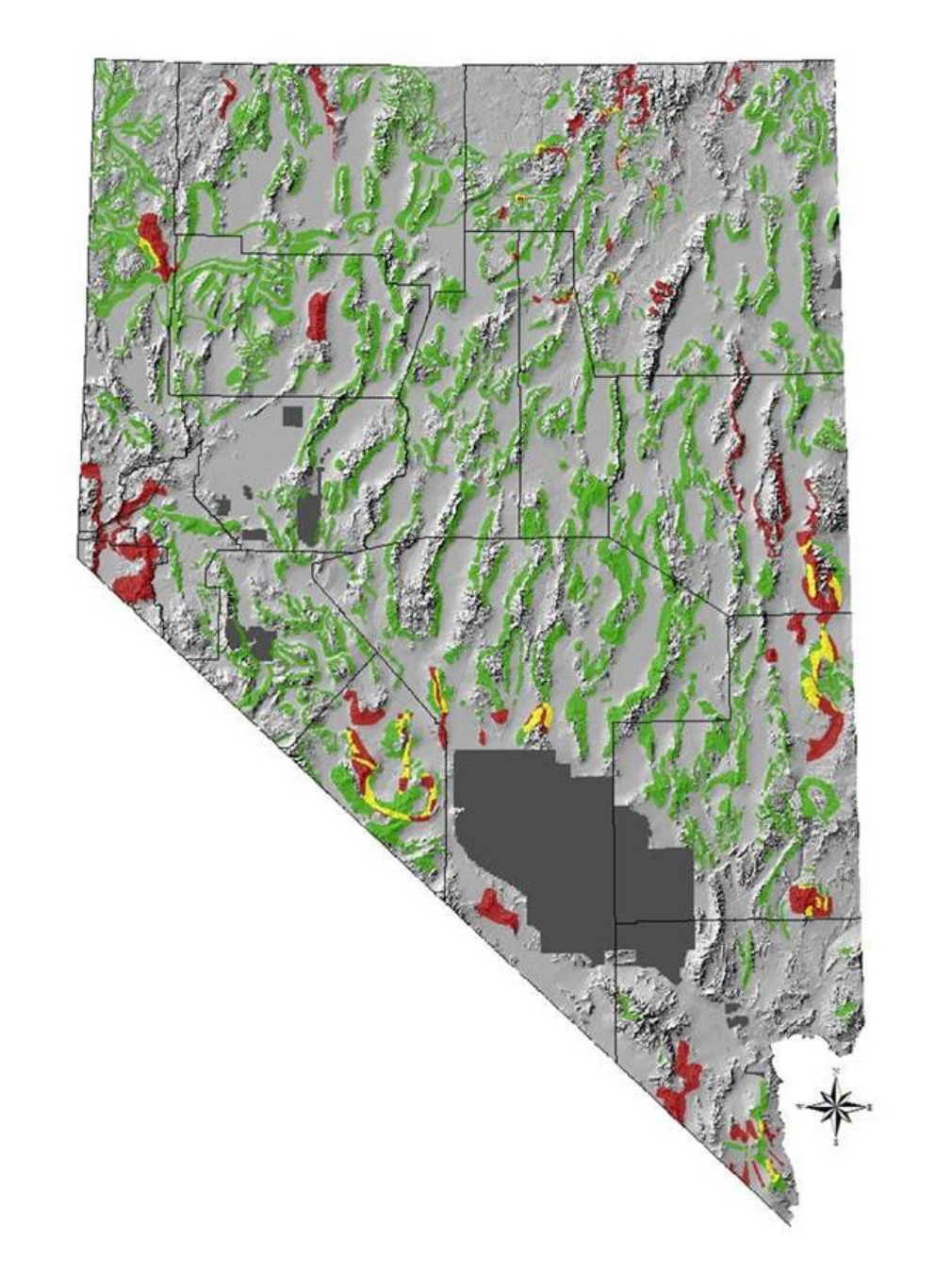
- Ground
  - All other areas

Study Design: Calibration

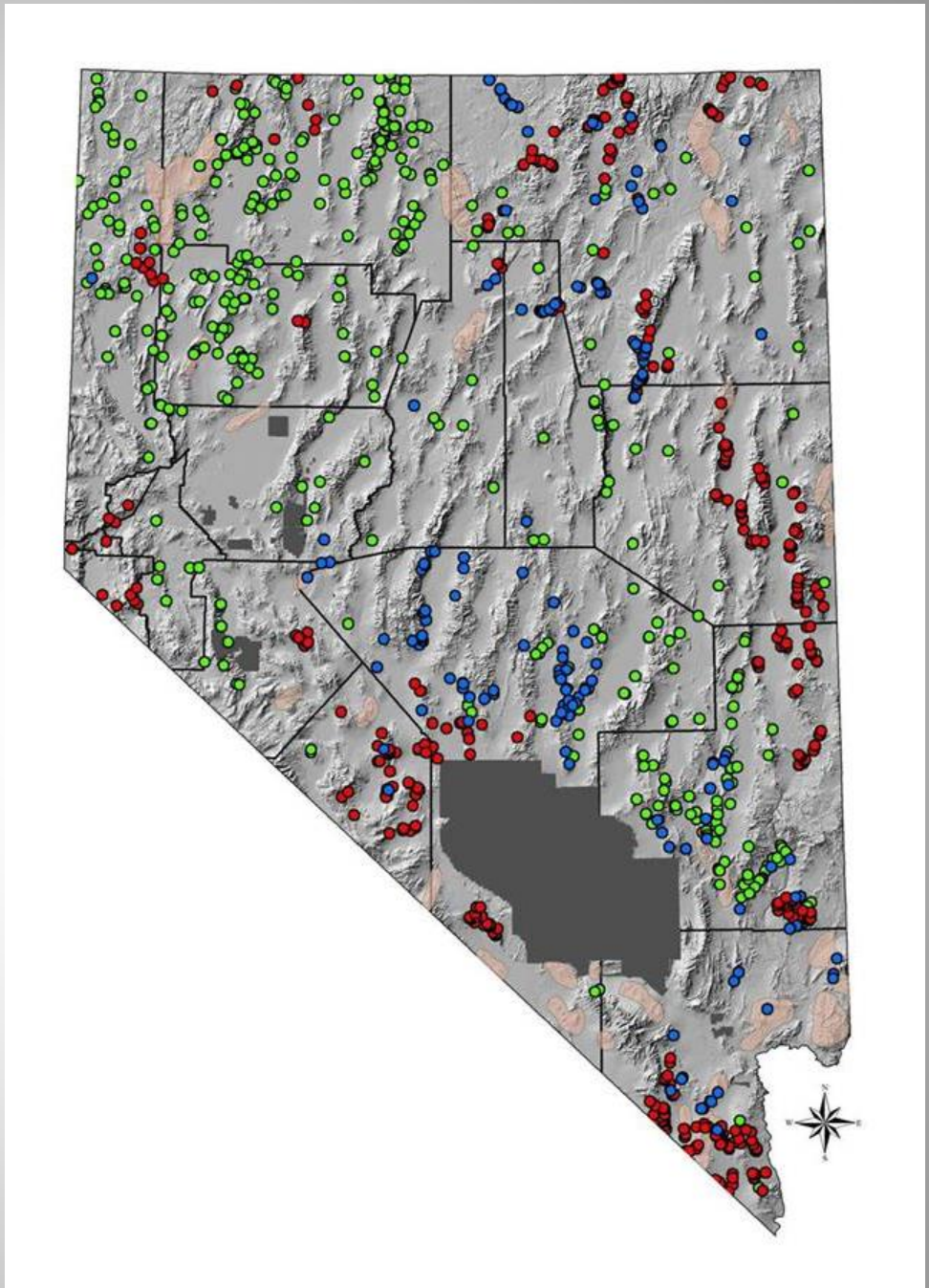
- Aerial vs. Ground
- Survey Intensity (Effort)
- Occupancy

Surveyed Areas 2011

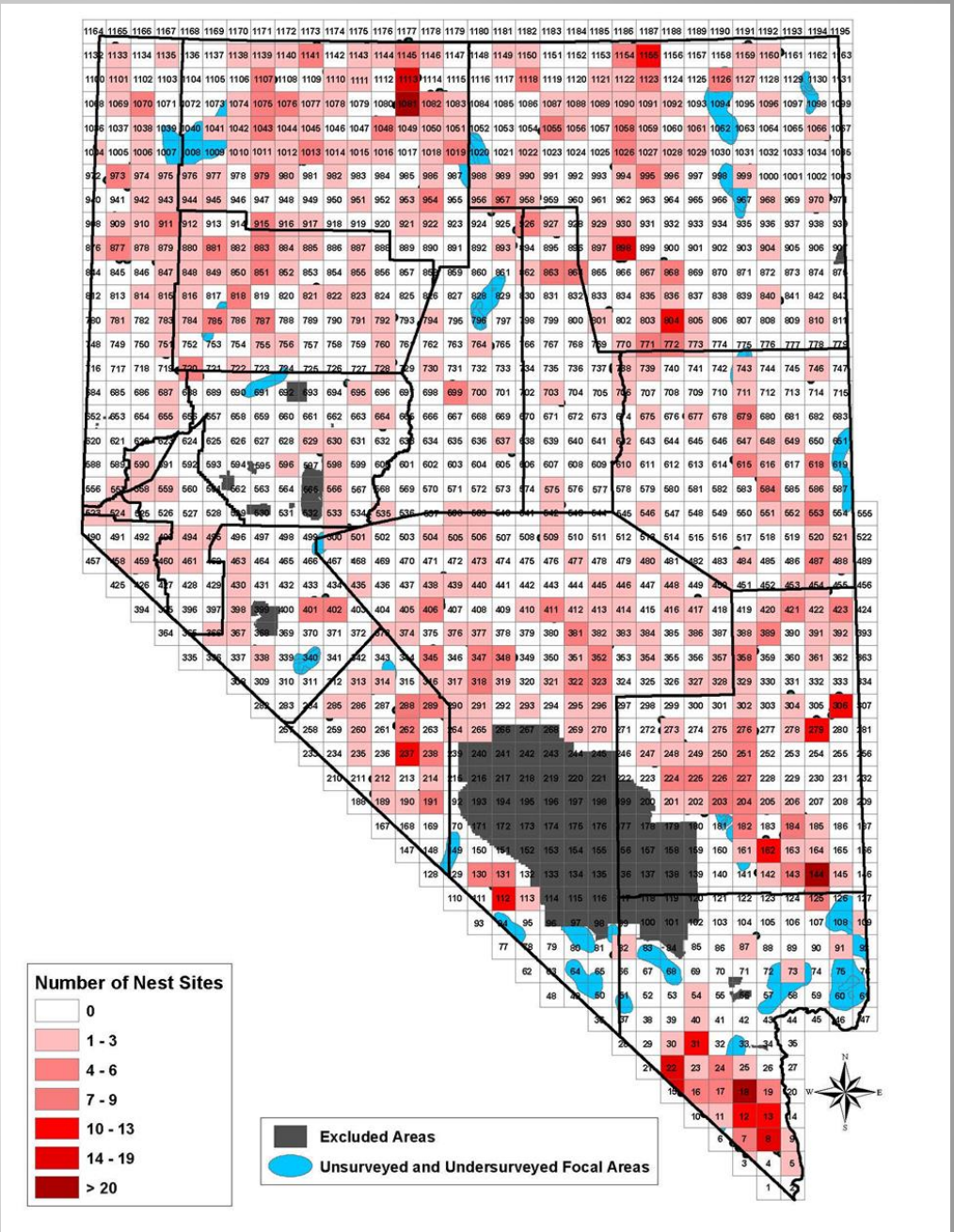
- 11.9 million acres by ground, 2.2 million acres by air
- > 70% of focal areas



Nest Sites 2003 - 2011

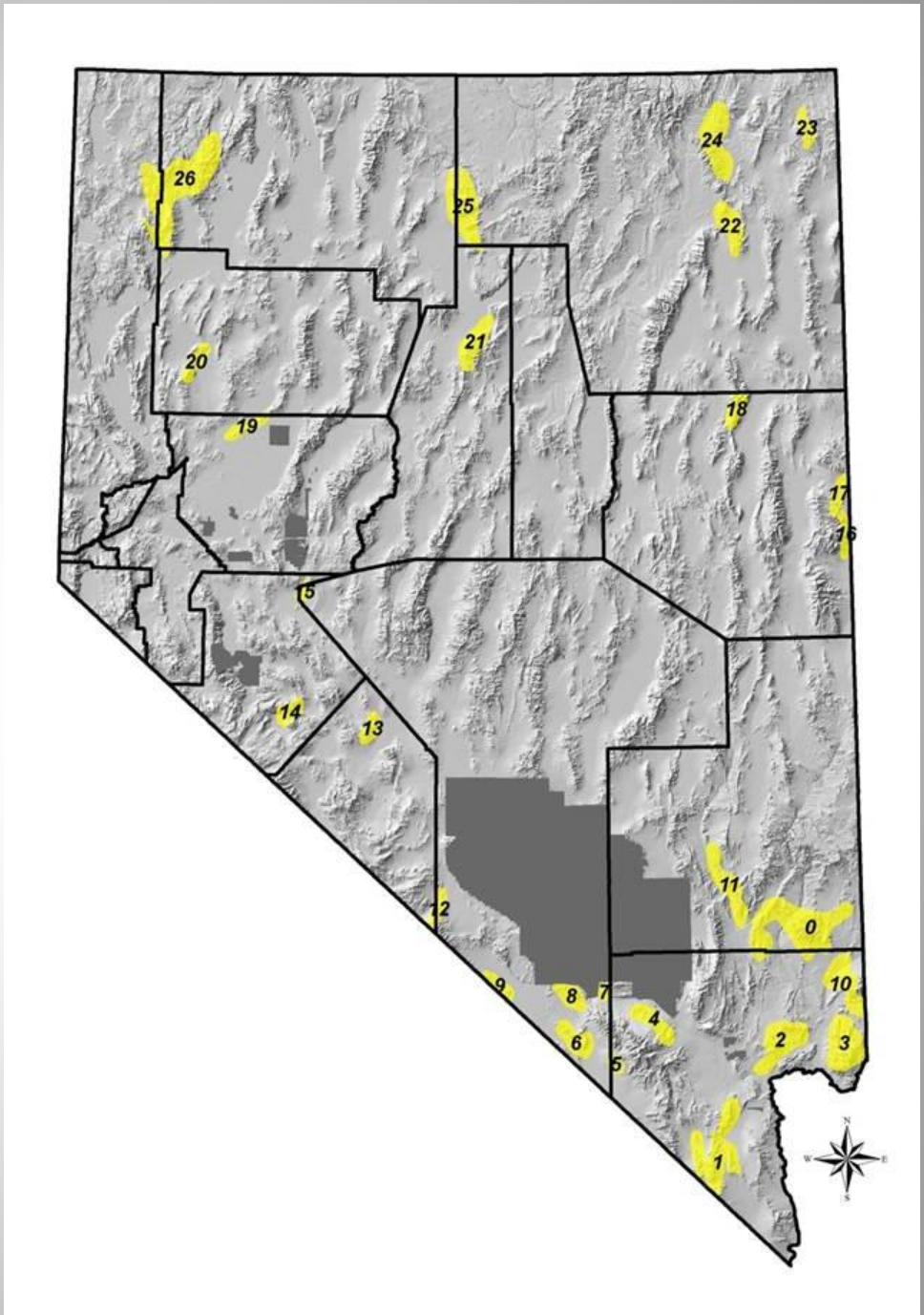


Management Presentation

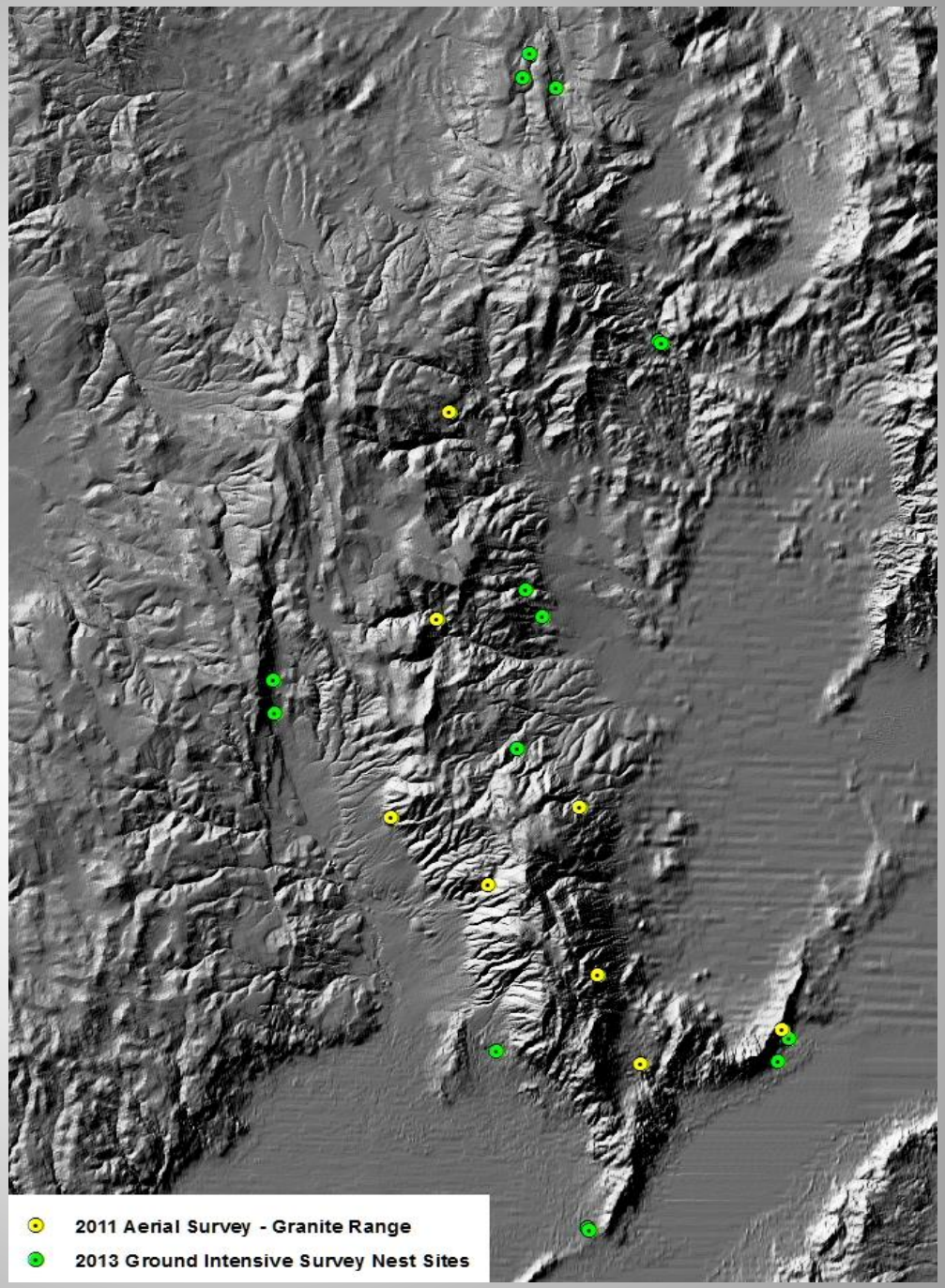


2013 Field Season (Analysis IP)

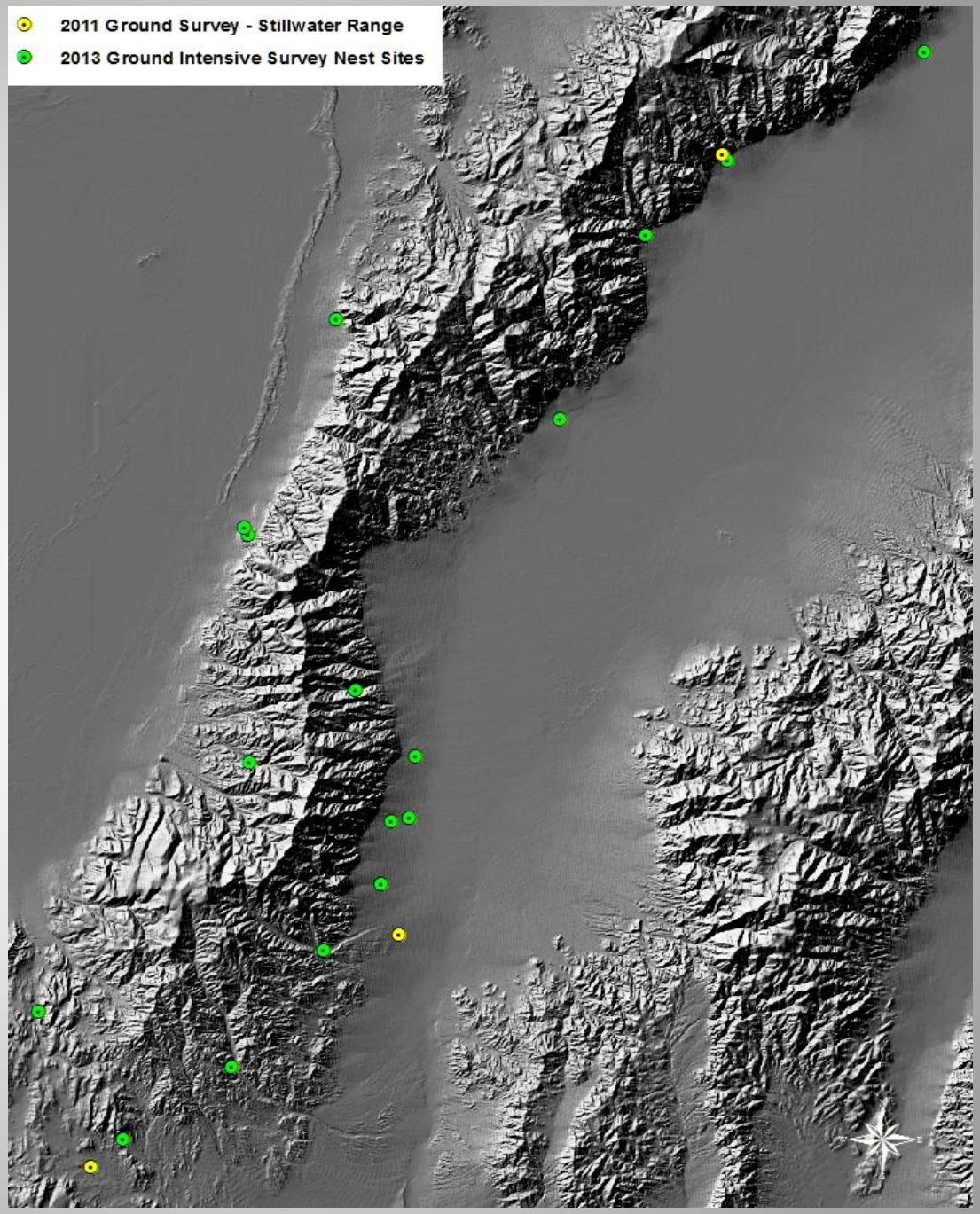
- Surveys of remaining focal areas
- Blind calibration studies
- Habitat modeling



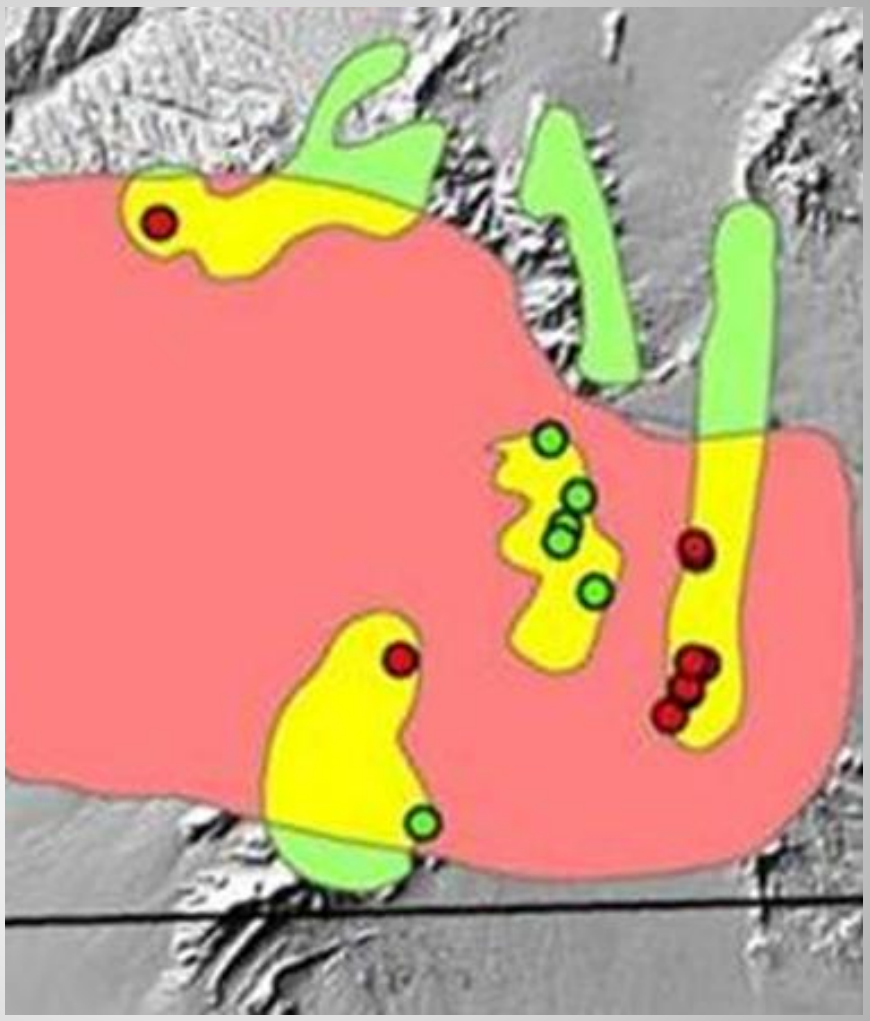
Aerial vs. Ground Intensive: Granite Range



Ground Rapid vs. Ground Intensive : Stillwater Range



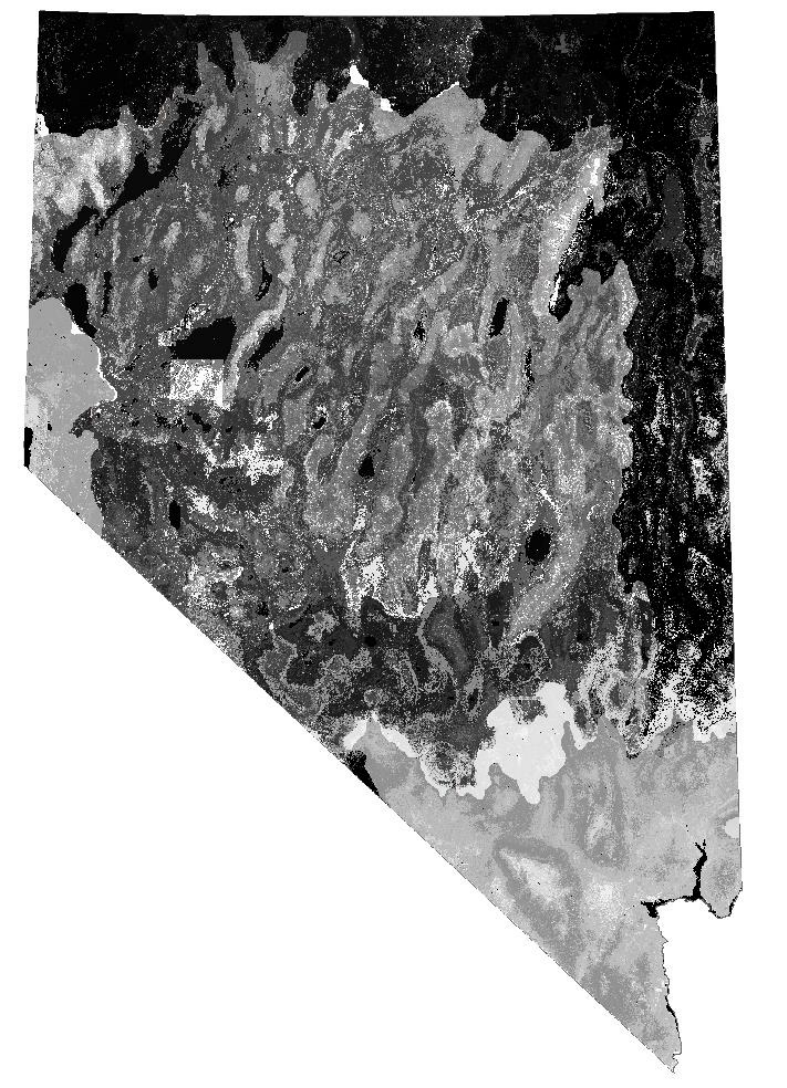
Comparison Detail

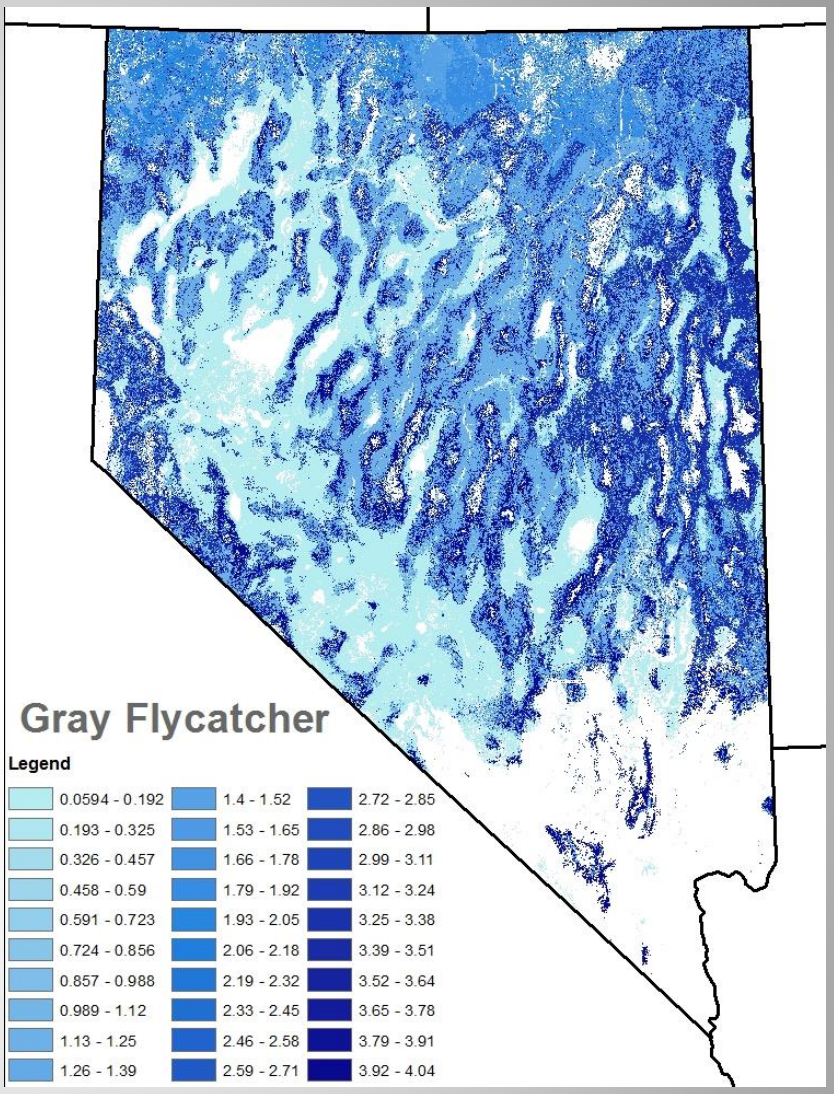


Habitat Modeling

- Landscape structure
- Habitat “quality”
- “Distance to..”

- GOAL: Identify higher value landscapes <u>early</u>




Gray Flycatcher
Legend
0.0594 - 0.192
0.193 - 0.325
0.326 - 0.457
0.458 - 0.59
0.591 - 0.723
0.724 - 0.856
0.857 - 0.988
0.989 - 1.12
1.13 - 1.25
1.26 - 1.39
1.4 - 1.52
1.53 - 1.65
1.66 - 1.78
1.79 - 1.92
1.93 - 2.05
2.06 - 2.18
2.19 - 2.32
2.33 - 2.45
2.46 - 2.58
2.59 - 2.71
2.72 - 2.85
2.86 - 2.98
2.99 - 3.11
3.12 - 3.24
3.25 - 3.38
3.39 - 3.51
3.52 - 3.64
3.65 - 3.78
3.79 - 3.91
3.92 - 4.04

Data Requests

- Different spatial resolutions
- Data filtering (confidence, nest age)
- Requests to:
  - Chet VanDellen, NDOW
  - cvandellen@ndow.org
  - Cris Tomlinson, NDOW
  - ctomlinson@ndow.org

Thanks to

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