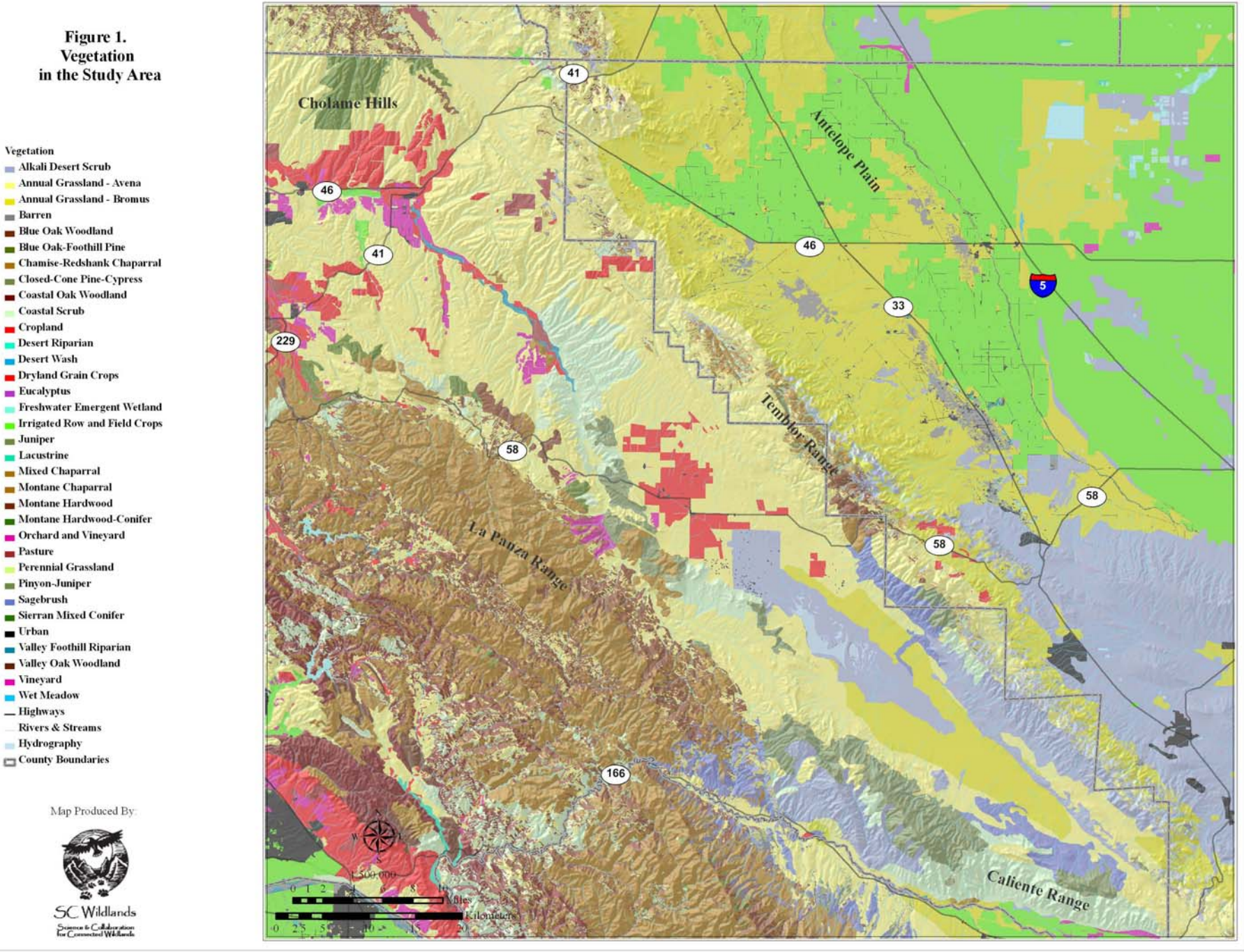
Task 1. Modeling Baseline Conditions Of Habitat Suitability And Connectivity For Each Focal Species

Figure 1.
Vegetation
in the Study Area



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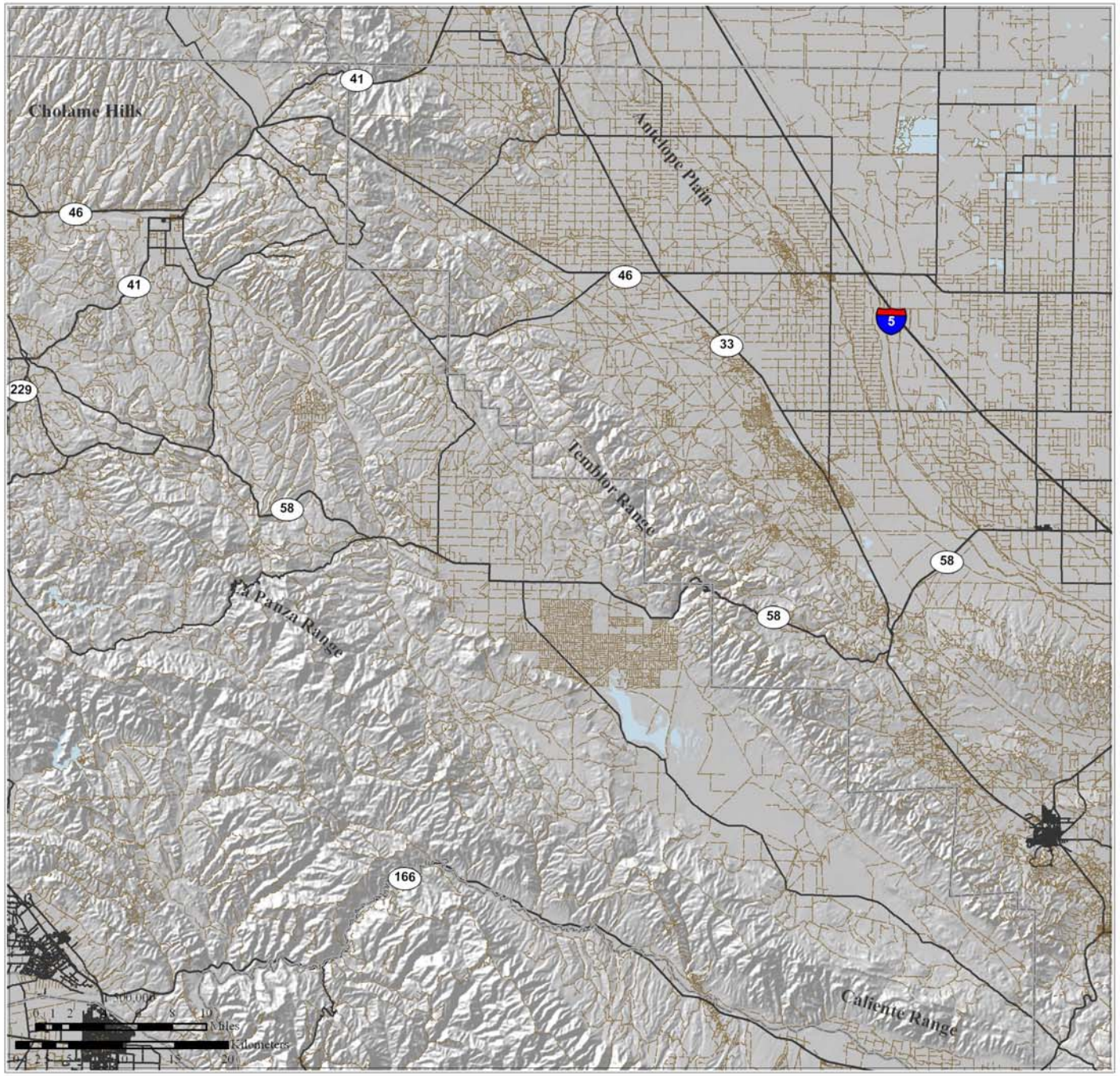
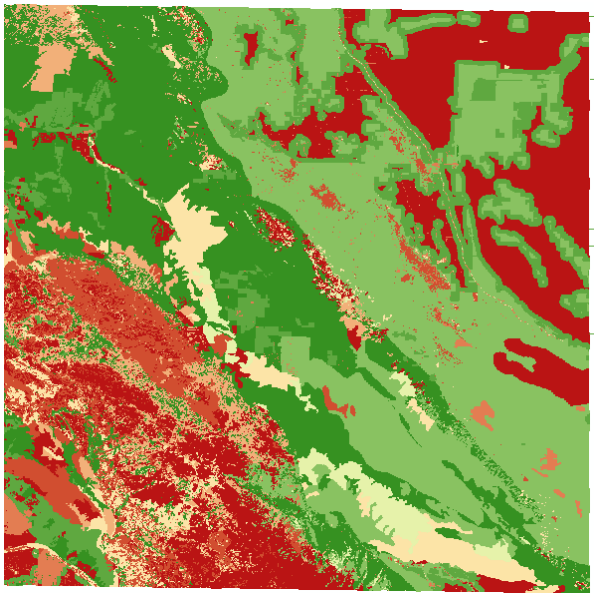
SC Wildlands
Science & Collaboration for Connected Wildlands

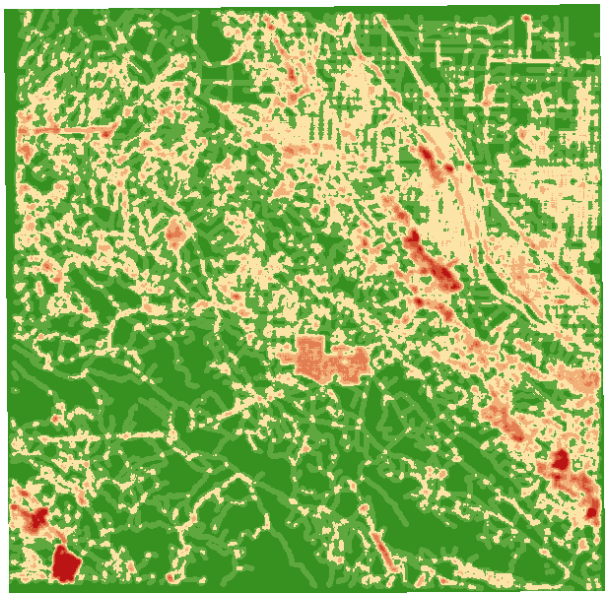
Figure 2.
Roads in the Study Area



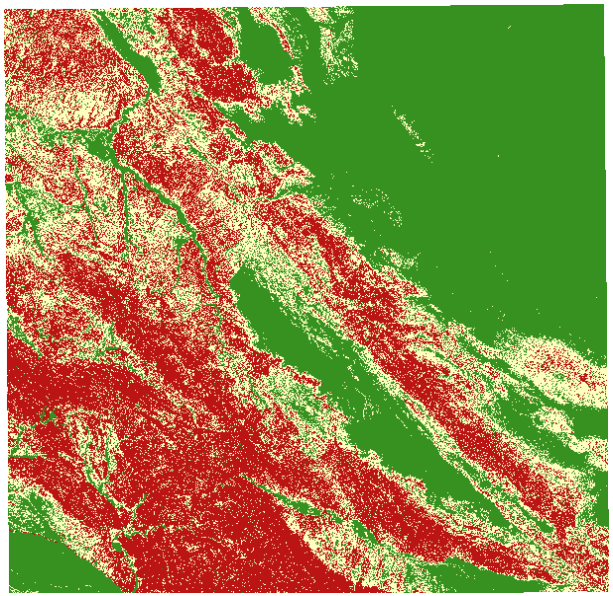
Pronghorn Antelope: Habitat Suitability Inputs



Input: Vegetation Suitability



Input: Road Density Suitability



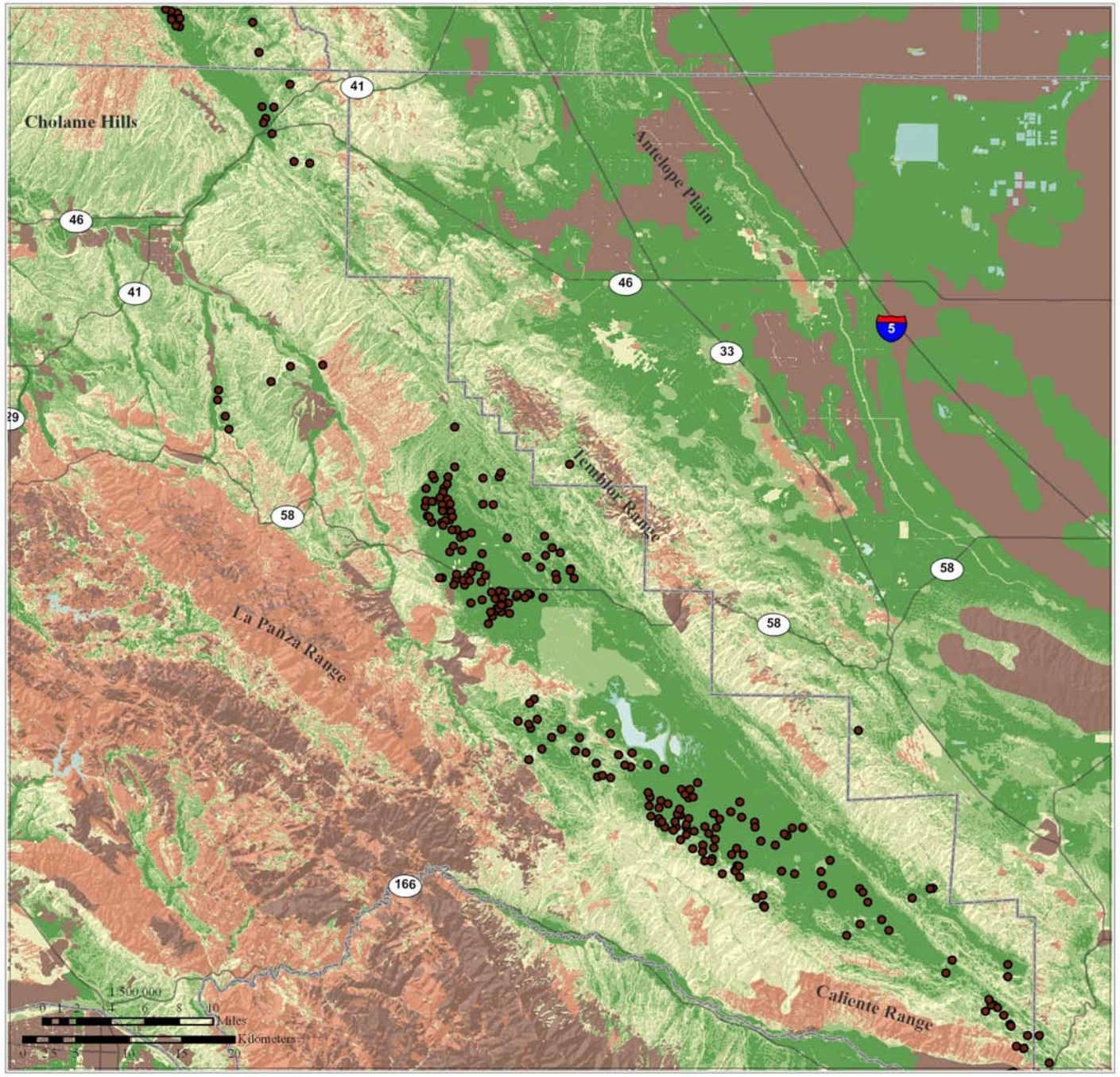
Input: Slope Suitability

Weighted Geometric Mean

$$(\text{Vegetation Score}^{0.35}) * (\text{Road Density Score}^{0.10}) * (\text{Topography Score}^{0.55}) = \text{Habitat Suitability}$$

Output divided into five classes using natural breaks (low, low to medium, medium, medium to high, and high)

Figure 4.
Habitat Suitability
for
Pronghorn antelope



Degree of Suitability

- **High**
- **Med-High**
- **Med**
- **Low-Med**
- **Low**
- **Pronghorn Sightings**
- **Highways**
- **County Boundaries**
- **Hydrography**

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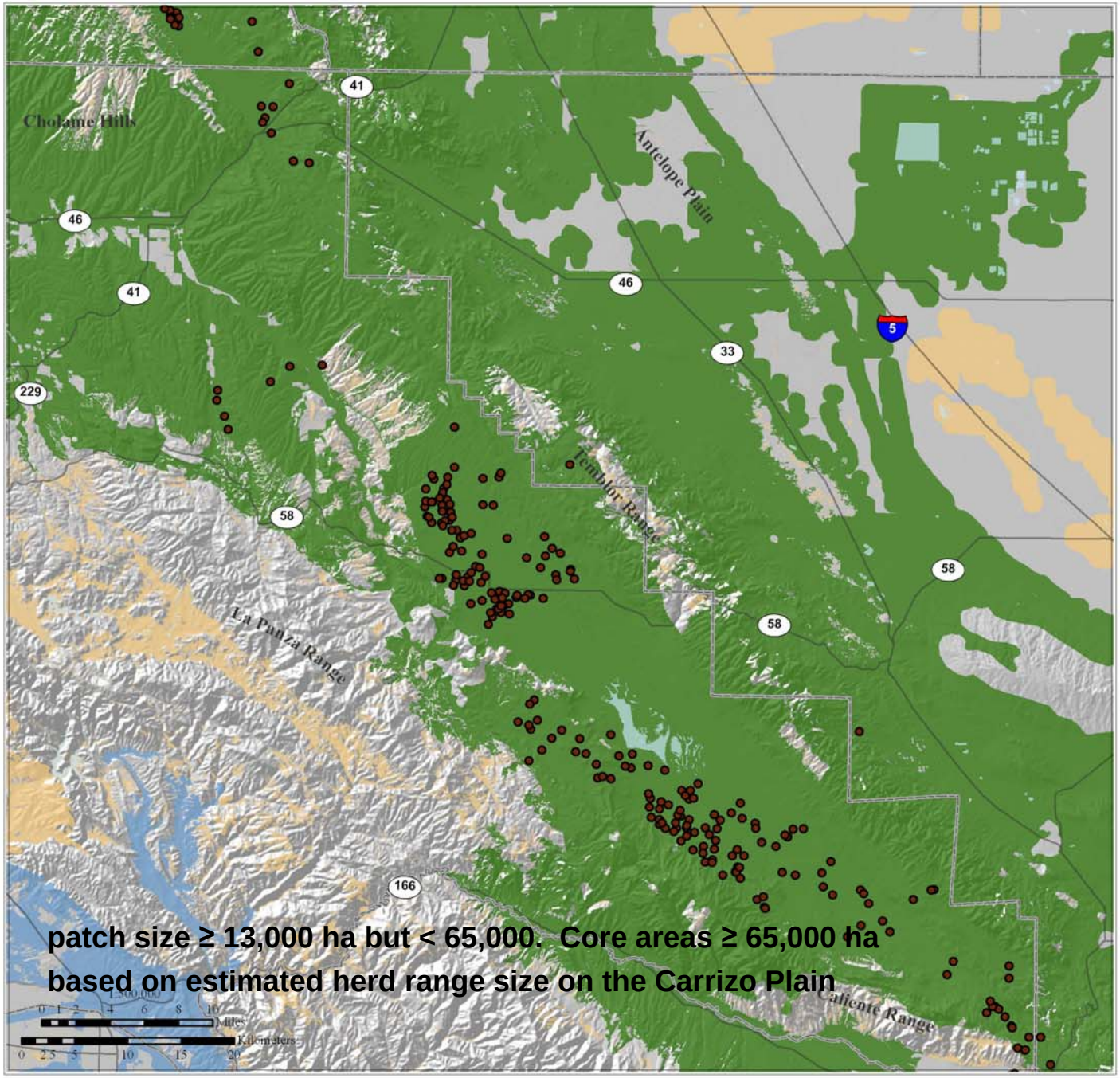
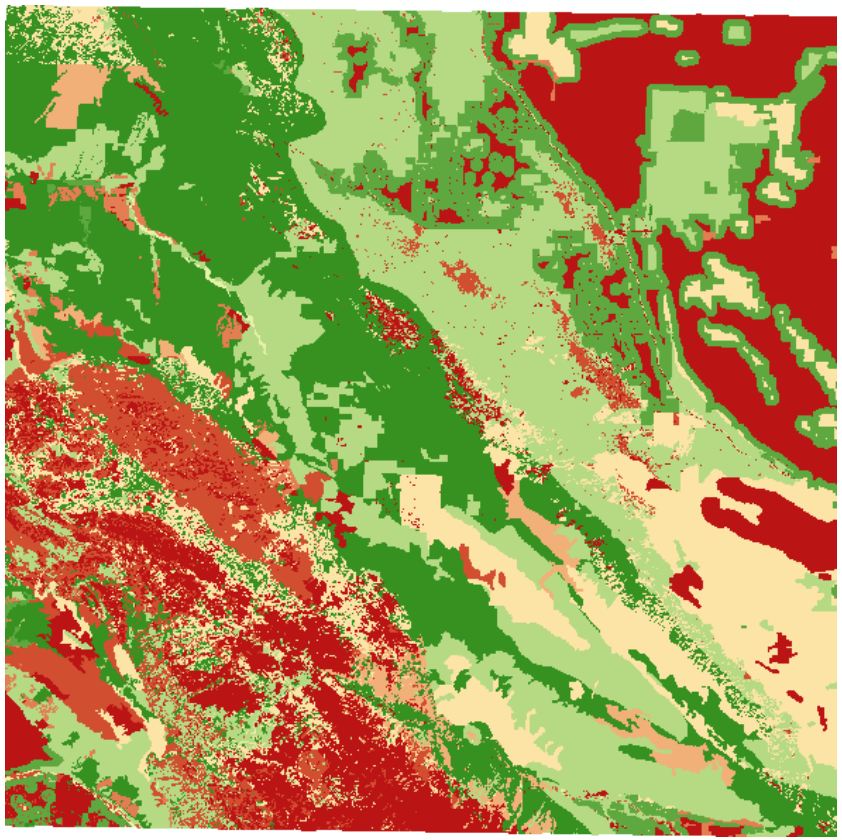
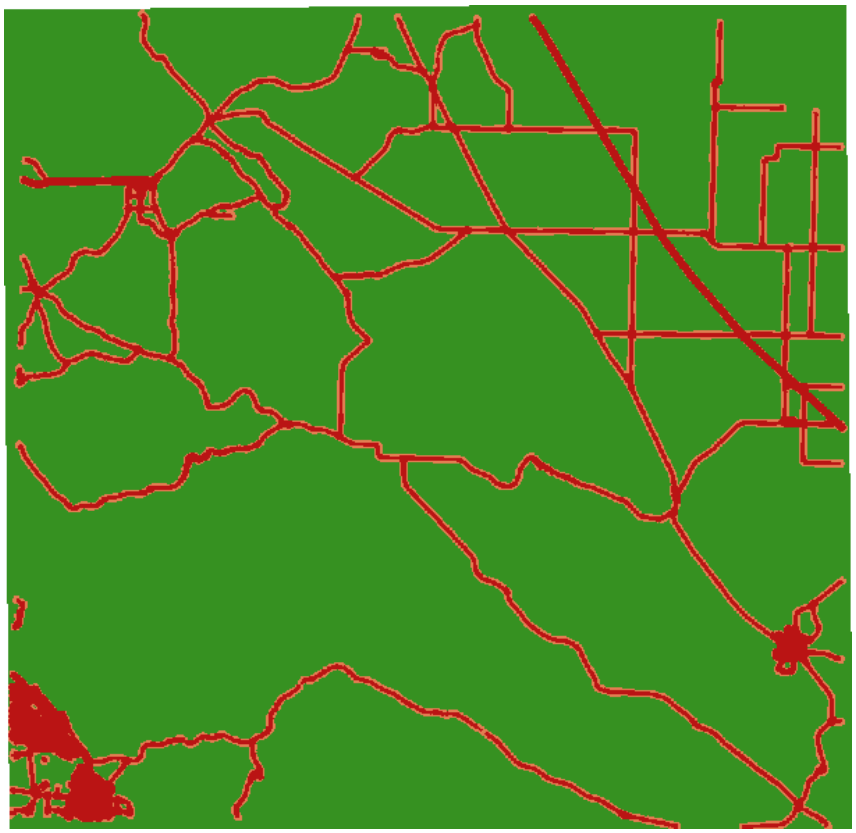
Figure 5.
Potential Cores & Patches
for
Pronghorn antelope



Tule Elk: Habitat Suitability Inputs



Input: Vegetation Suitability



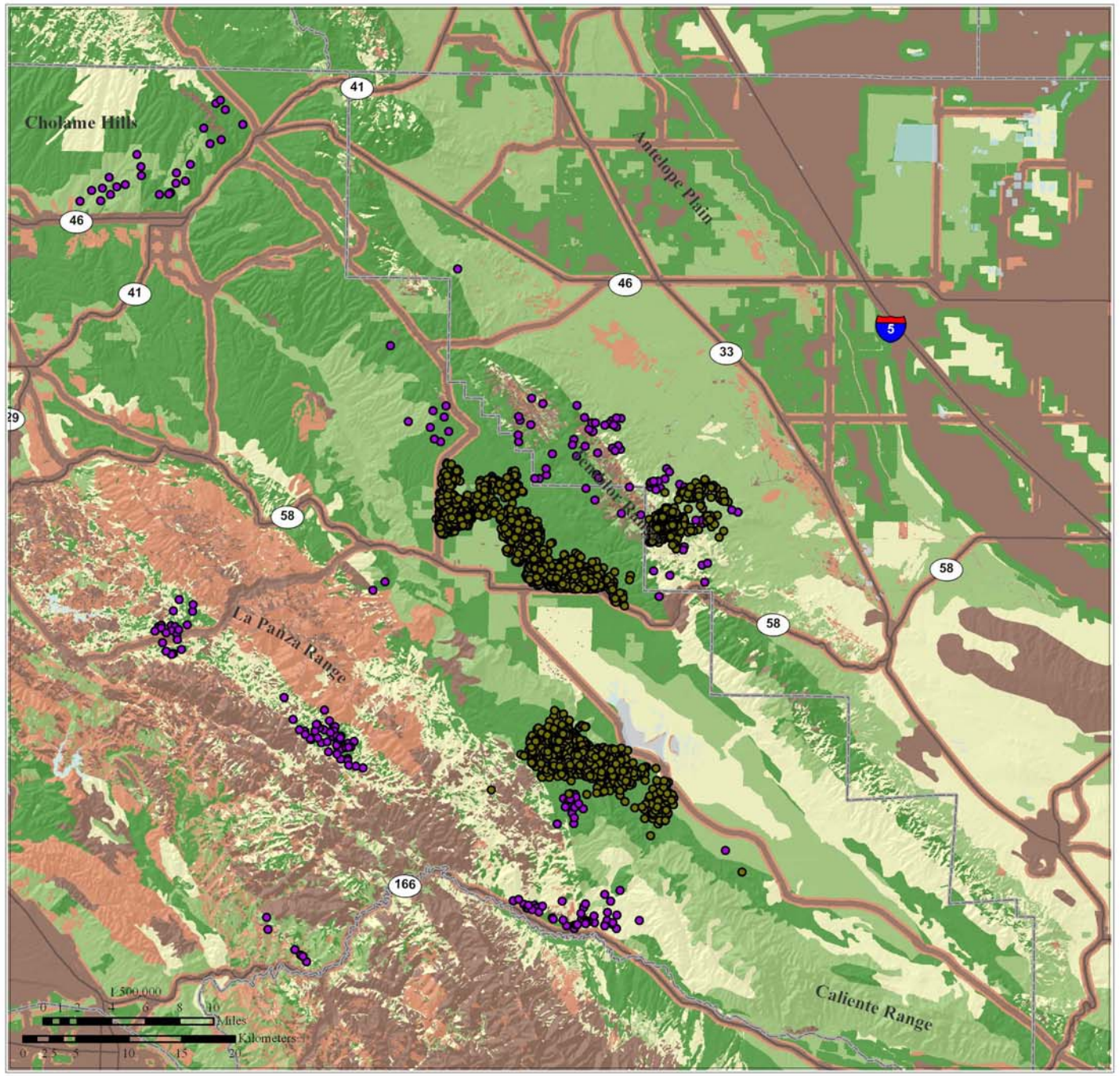
Input: Road Density Suitability

Weighted Geometric Mean

$$(\text{Vegetation Score}^{0.50}) * (\text{Road Density Score}^{0.50}) = \text{Habitat Suitability}$$

Output divided into five classes using natural breaks (low, low to medium, medium, medium to high, and high)

Figure 6.
Habitat Suitability
for
Tule elk



Degree of Suitability

- **High**
- **Med-High**
- **Med**
- **Low-Med**
- **Low**
- **Collared Sightings**
- Flight Sightings
- **Highways**
- **County Boundaries**
- **Hydrography**

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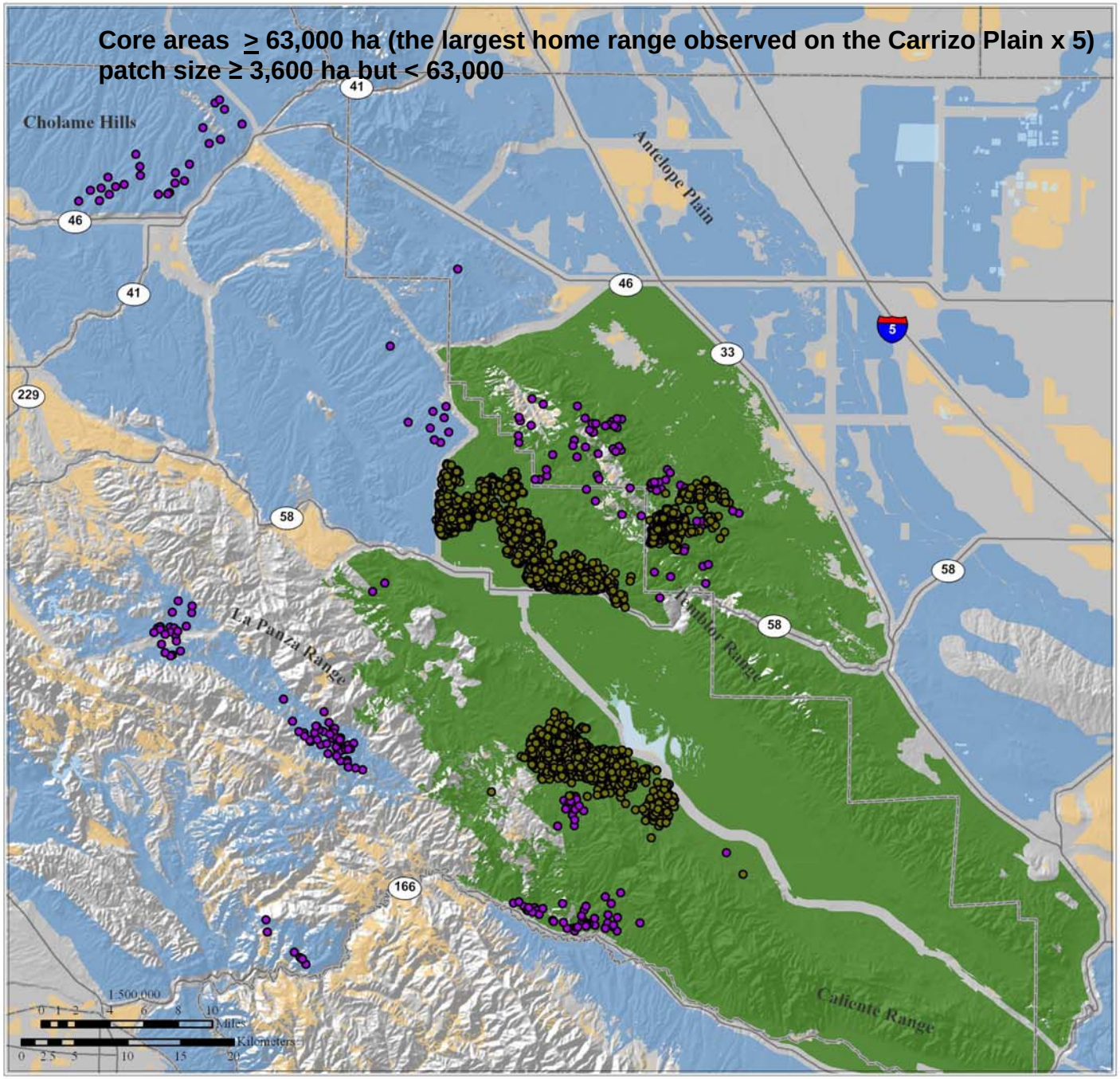
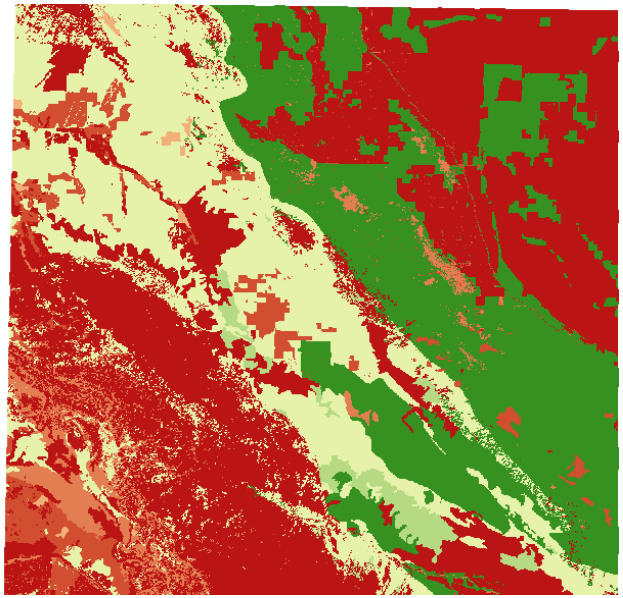
Science & Collaboration for Connected Wildlands

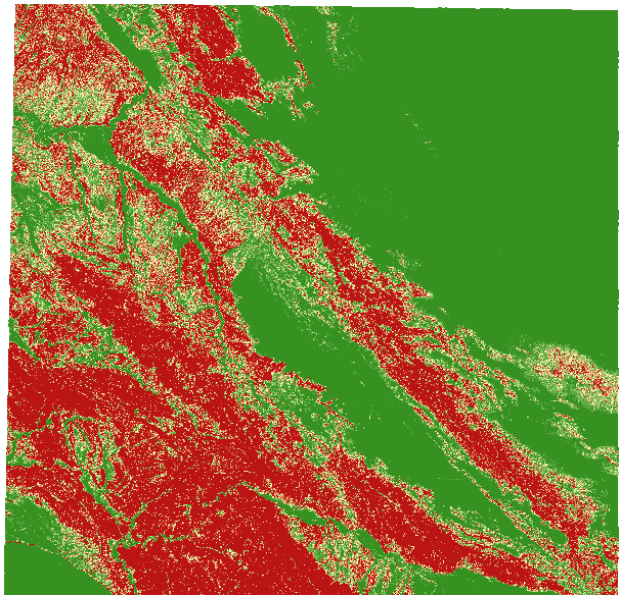
Figure 7.
Potential Cores & Patches
for
Tule elk



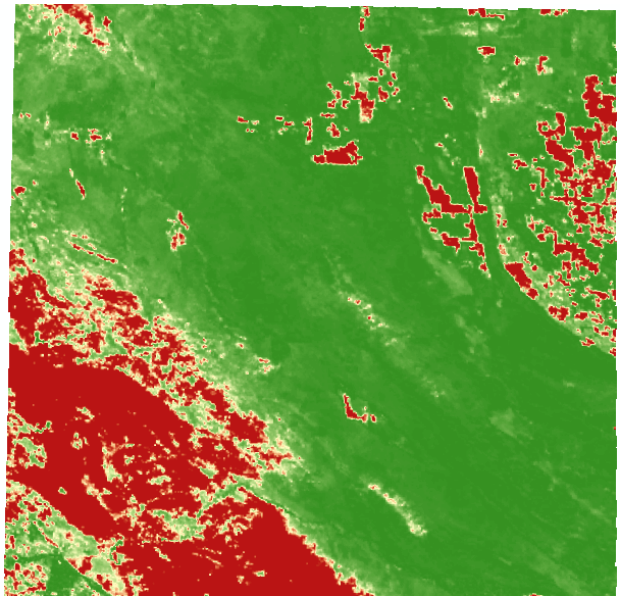
Kit Fox: Habitat Suitability Inputs



Input: Vegetation Suitability



Input: Terrain Ruggedness Suitability



Input: Vegetation Density Suitability

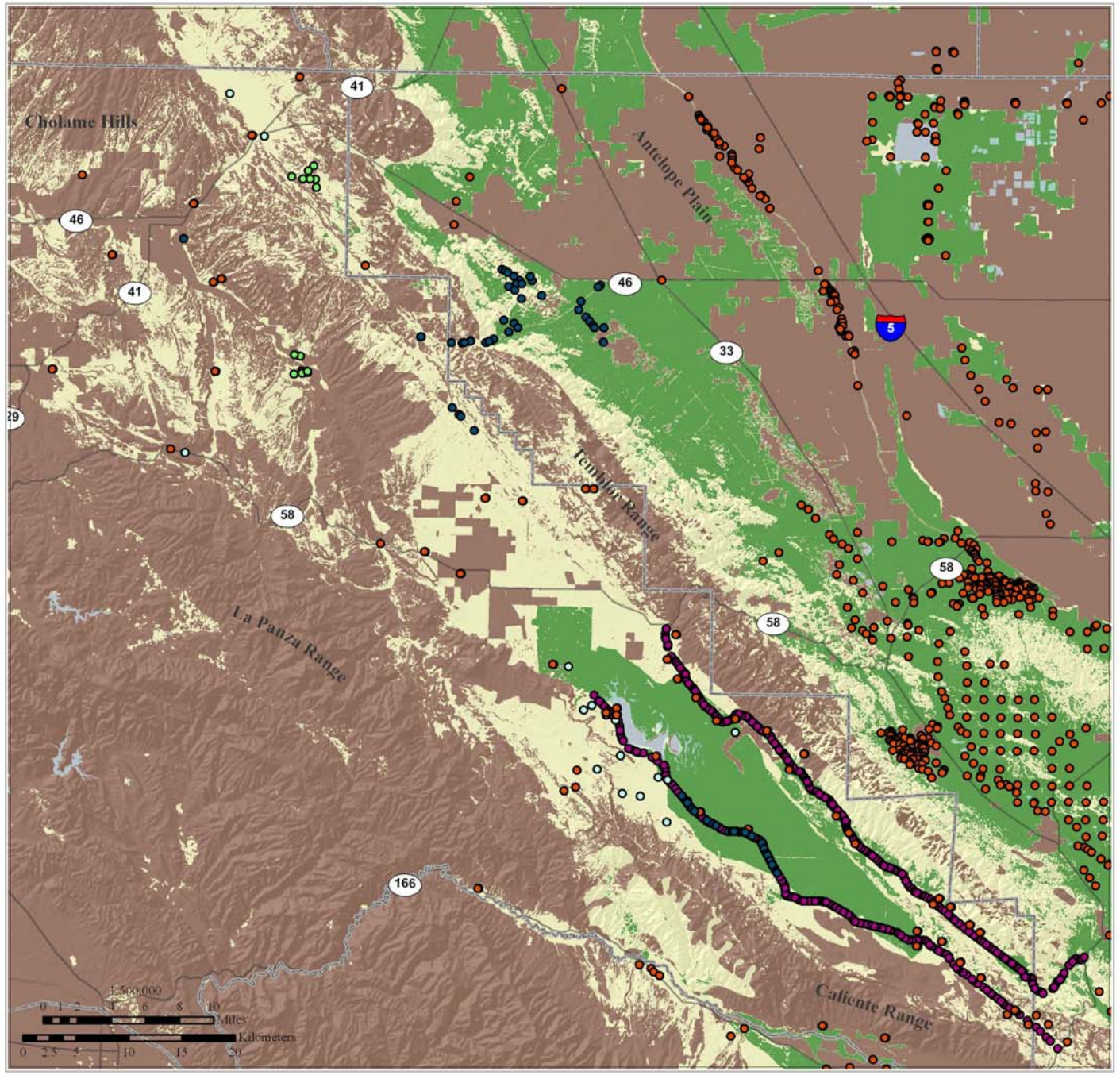
Weighted Arithmetic Mean

(Vegetation Score * 50%) + (Terrain Ruggedness Score * 25%) + (Vegetation Density Score * 25%) = Habitat Suitability

The output was divided into three defined classes: high (≥0.9); medium (≥0.6 but <0.9); and low (<0.6)

model source: Cypher et al. 2007

Figure 8
Habitat Suitability
for
San Joaquin kit fox



Degree of Suitability
- **High**
- **Med**
- **Low**
- **Kit Fox Sightings**
- ESRP Kit Fox Sightings
- Spotlight observations
- Incidental observations
- Telemetry locations
- Car Sightings
- CNDDB Kit Fox
- **Highways**
- **County Boundaries**
- **Hydrography**

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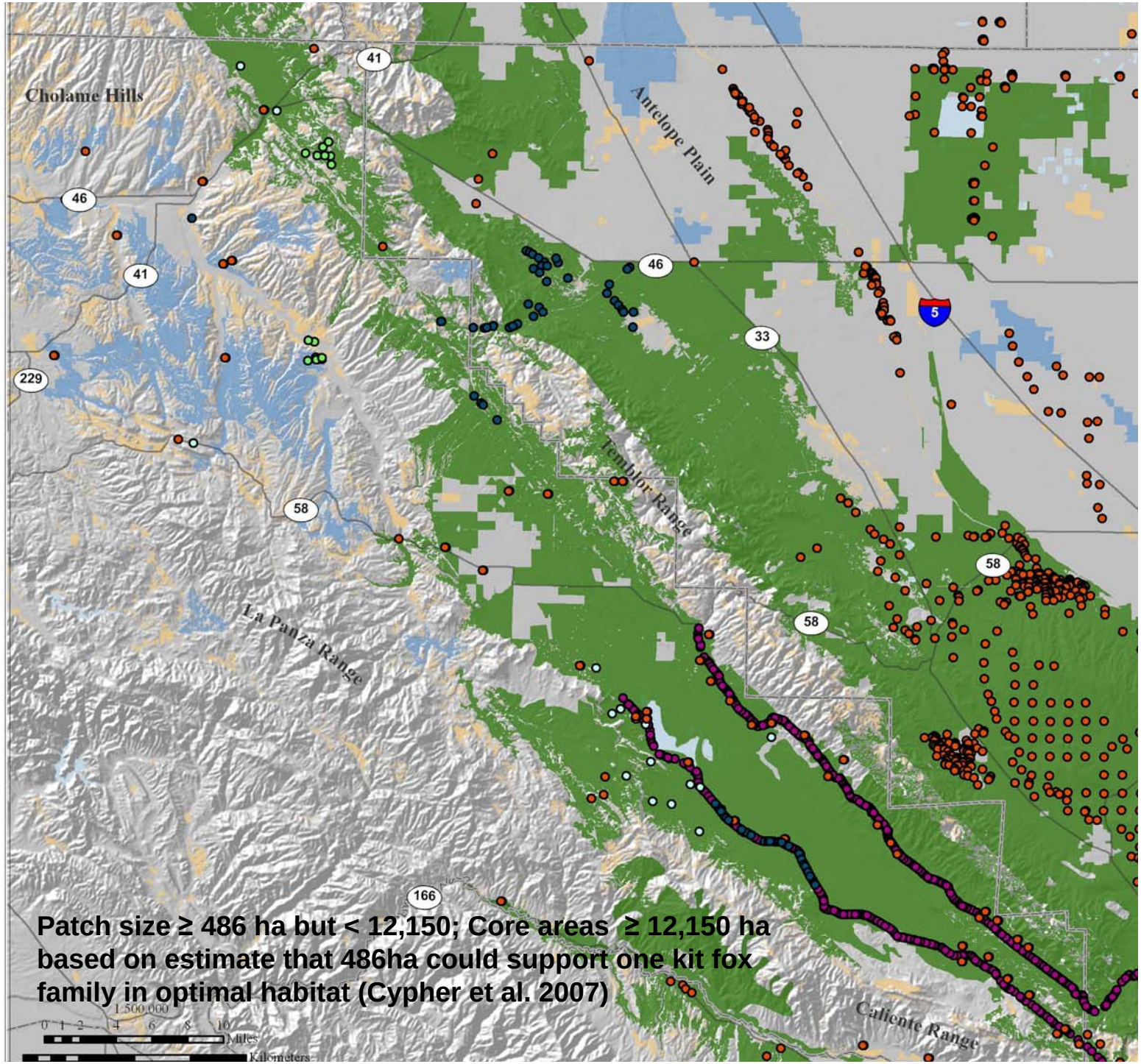
Potential Cores & Patches for San Joaquin kit fox

- Core
- Patch
- < Patch
- Kit Fox Sightings
- ESRP Kit Fox Sightings
- Spotlight observations
- Incidental observations
- Telemetry locations
- Car Sightings
- CNDDB Kit Fox
- Highways
- County Boundaries
- Hydrography



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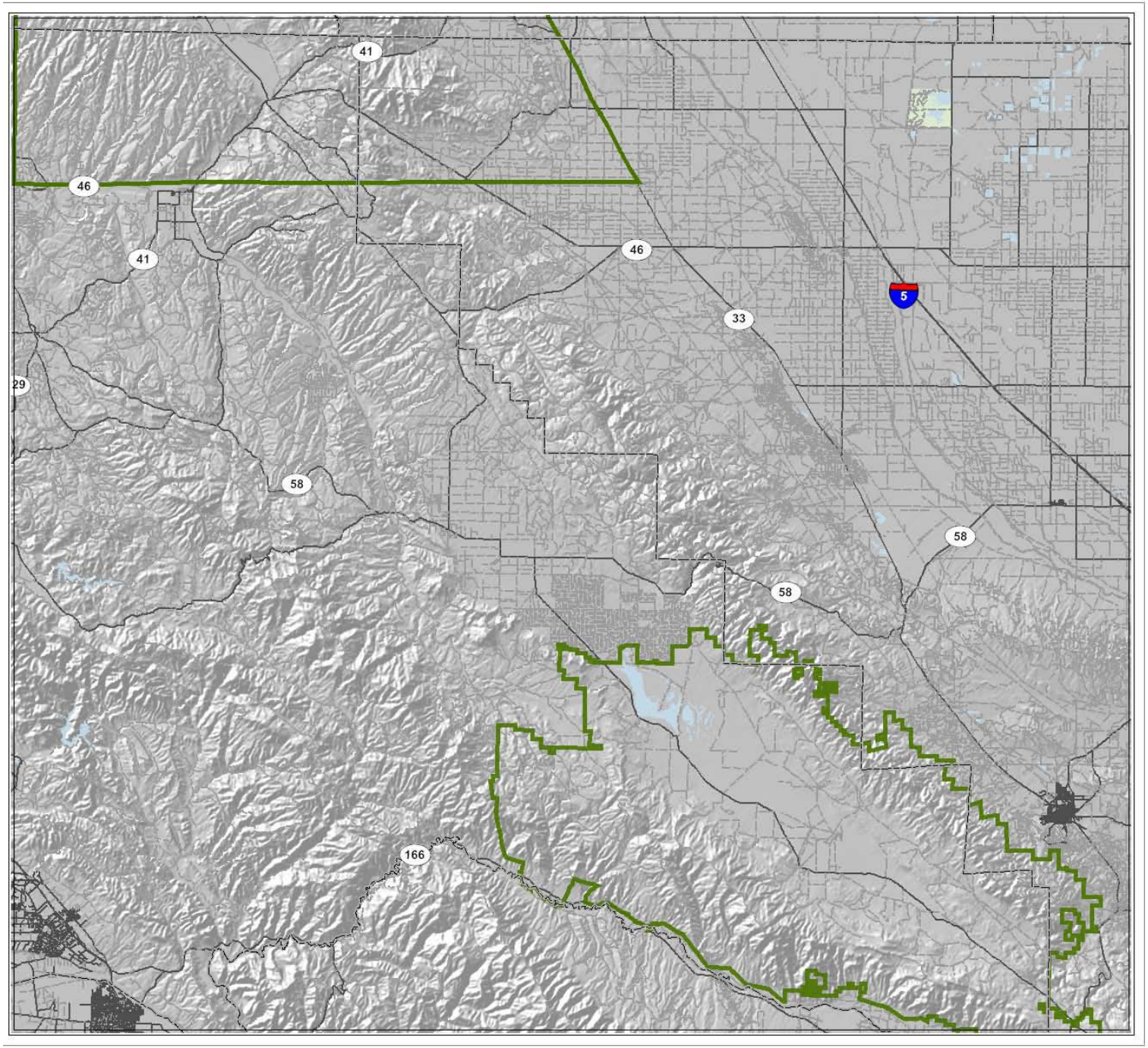
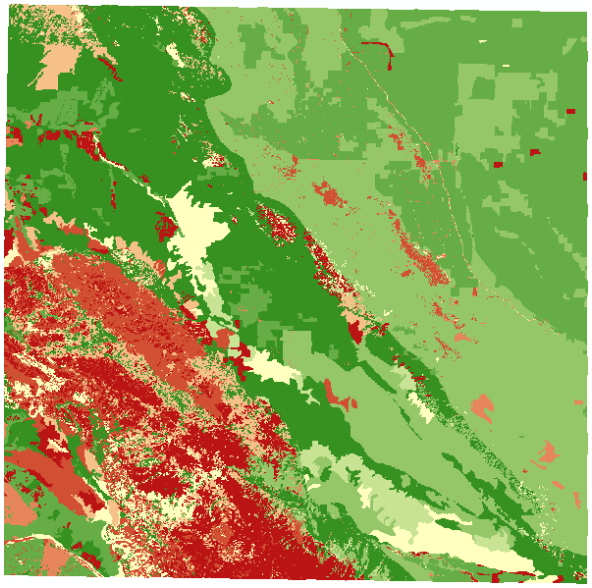
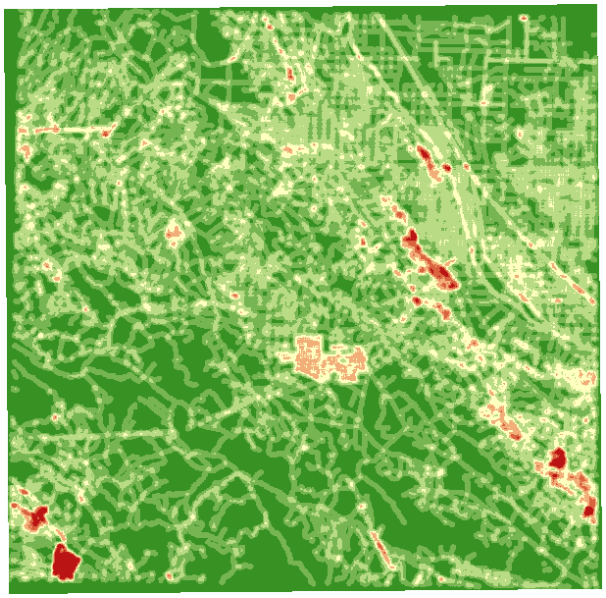
Target Zones for Landscape Permeability Analyses



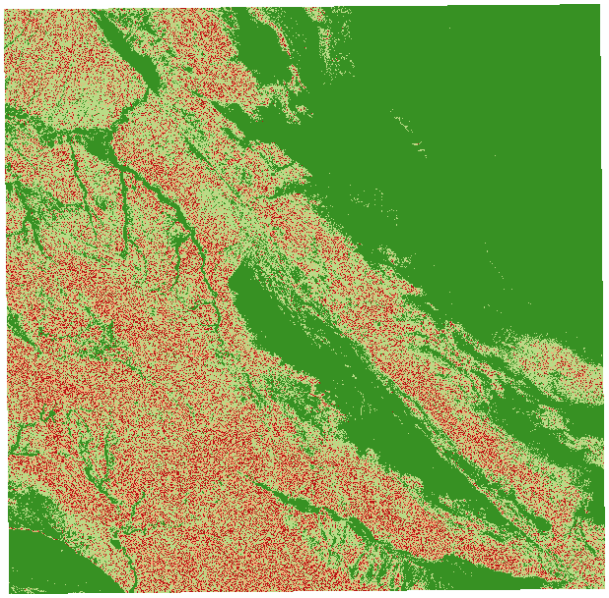
Pronghorn Antelope: Landscape Permeability Inputs



Input: Vegetation Permeability



Input: Road Density Permeability



Input: Topography Permeability

(Vegetation Score * 35%) + (Road Density Score * 10%) + (Topography Score * 55%) = cost

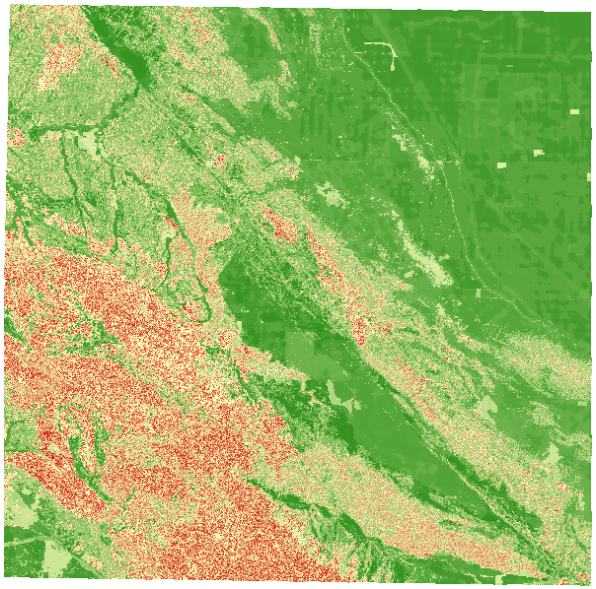
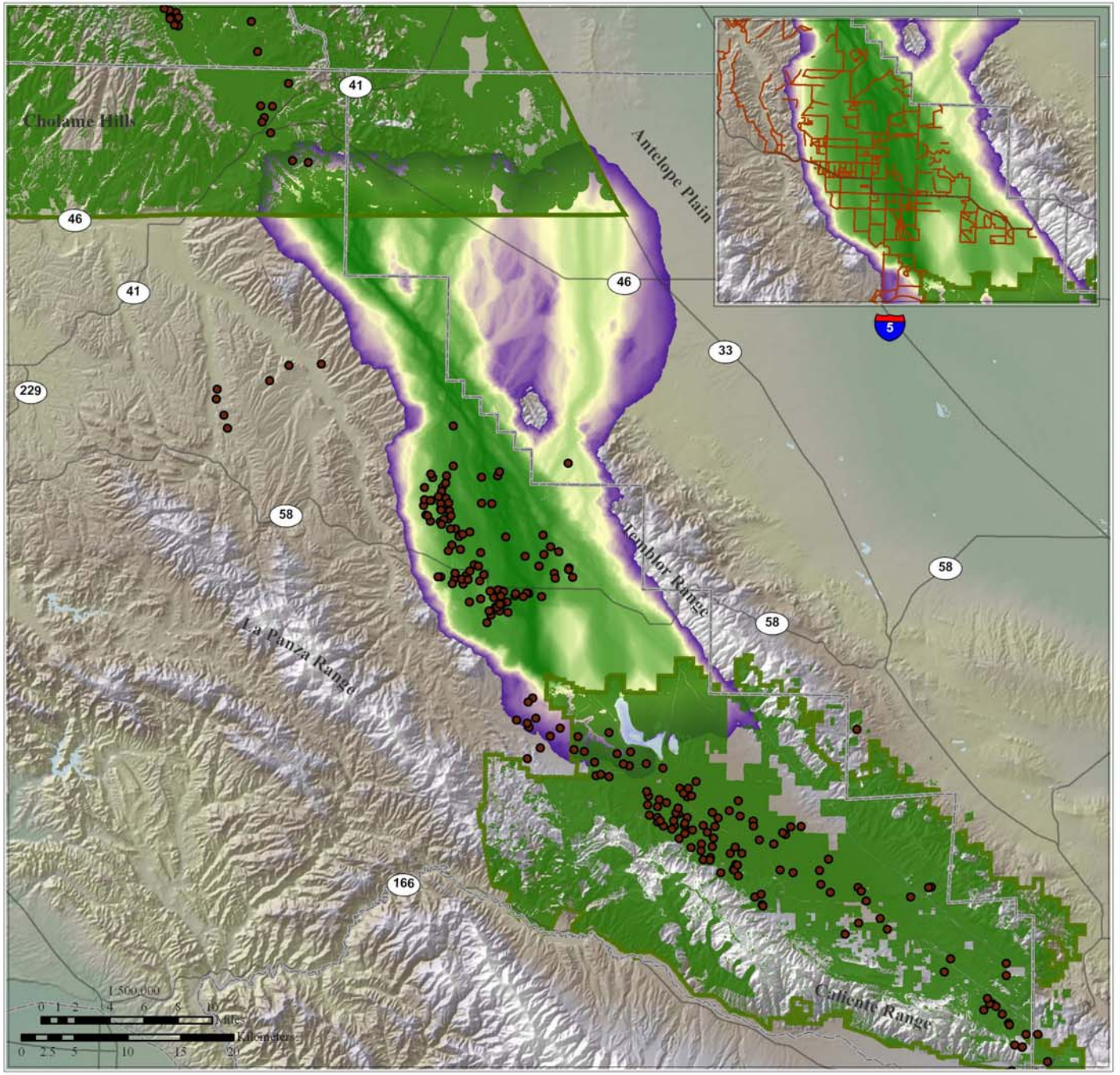


Figure 10.
Landscape Permeability
for
Pronghorn antelope



- Highly Permeable
- Less Permeable
- Targeted Core Areas
- Core Targets
- Pronghorn Sightings
- Highways
- Fence Lines
- County Boundaries
- Hydrography

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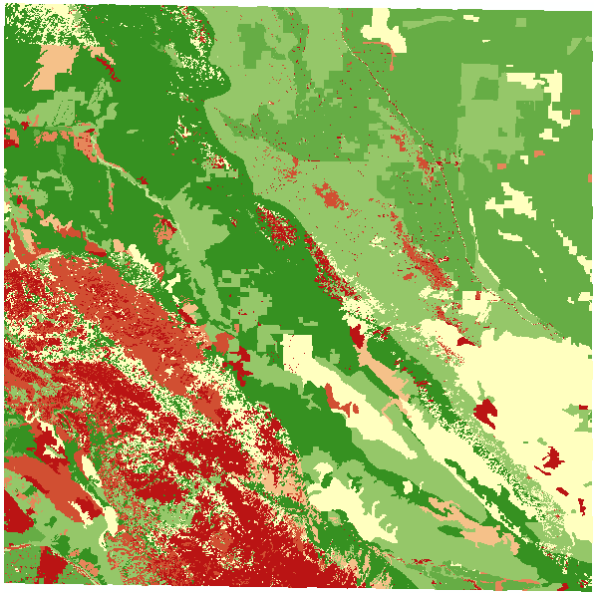
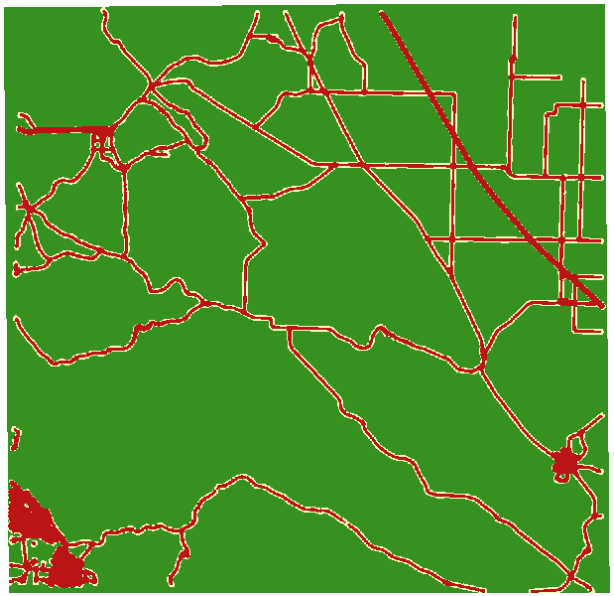
Tule Elk: Landscape Permeability Inputs



Input: Vegetation Permeability



Input: Road Density Permeability

(Vegetation Score * 50%) + (Road Density Score * 50%) = cost.

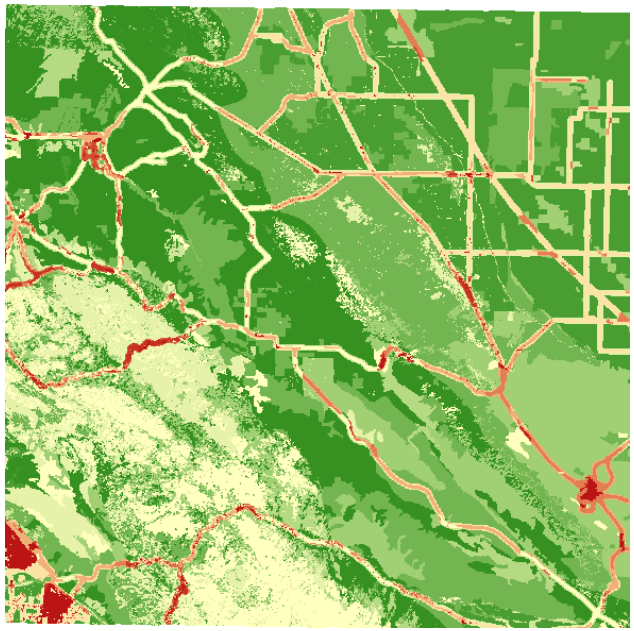
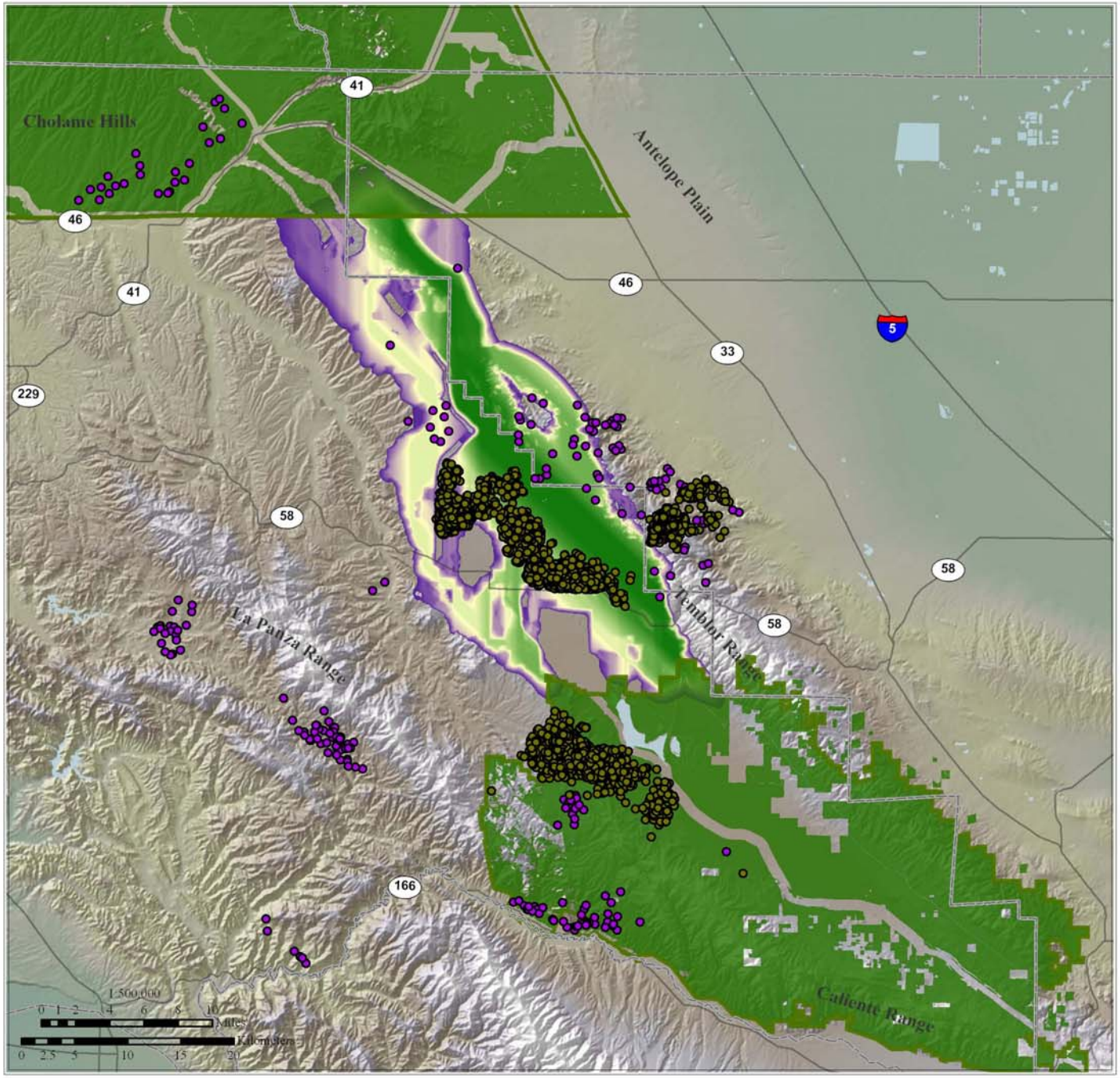


Figure 11.
Landscape Permeability
for
Tule elk



- Highly Permeable
- Less Permeable
- Collared Sightings
- Flight Sightings
- Targeted Core Areas
- Core Targets
- Highways
- County Boundaries
- Hydrography

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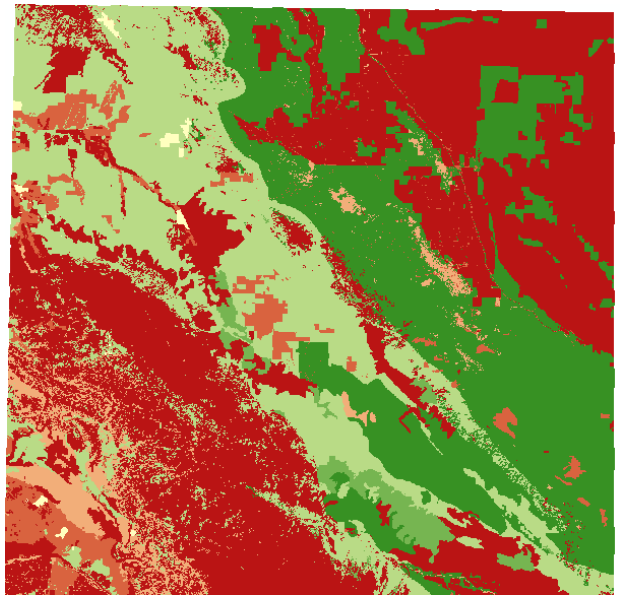
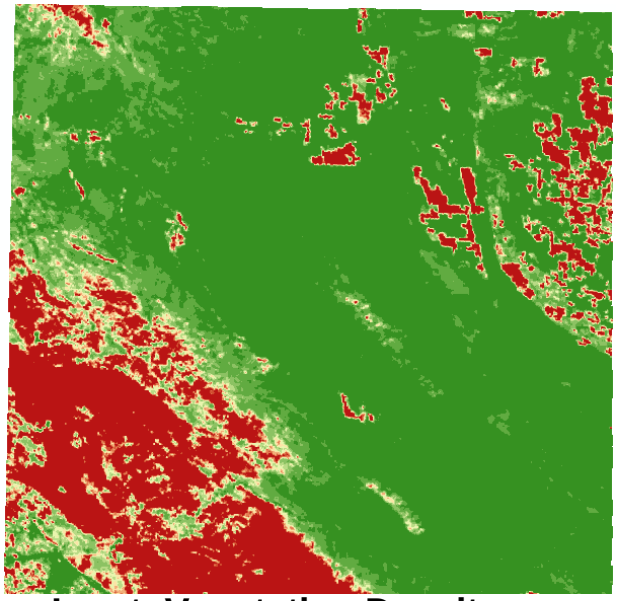
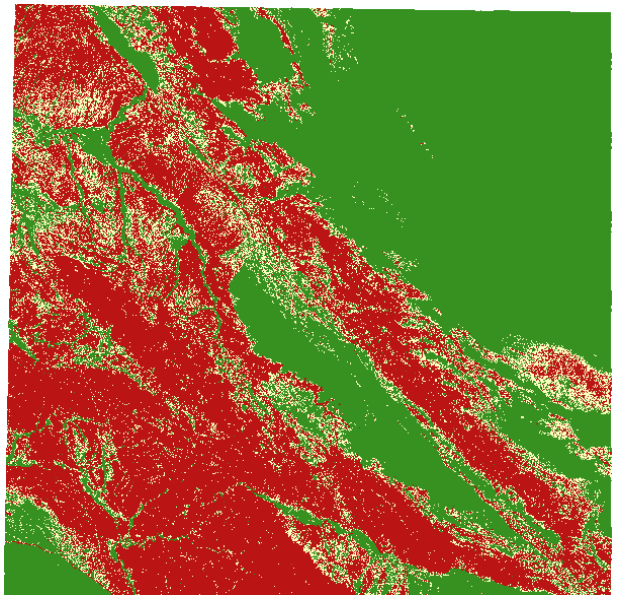
Kit Fox Permeability inputs based on Suitability Ratings



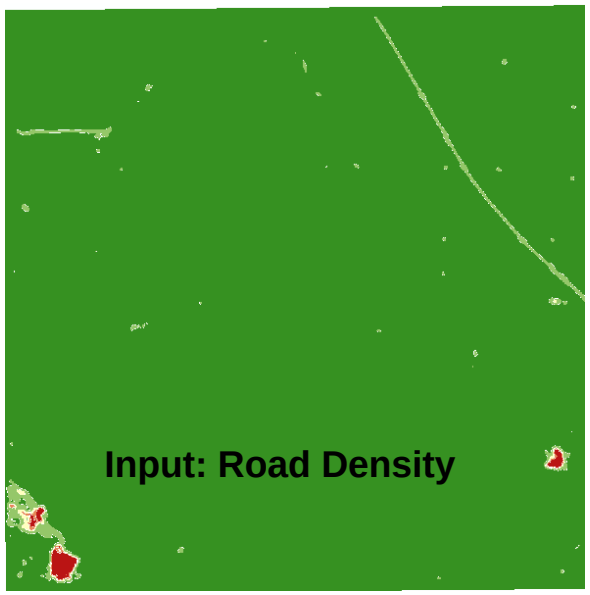
Input: Vegetation



Input: Vegetation Density



Input: Terrain Ruggedness



Input: Road Density

(Vegetation Score * 40%) +
(Road Density Score * 5%) +
(Terrain Ruggedness Score * 50%) +
(Vegetation Density Score * 5%) =
cost

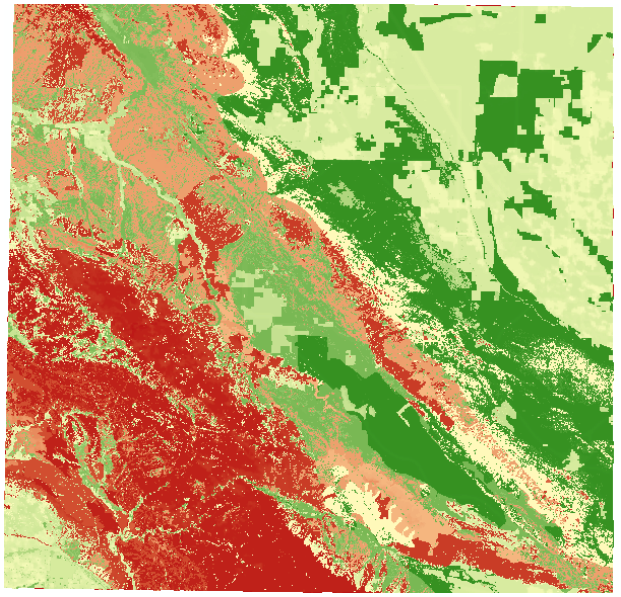
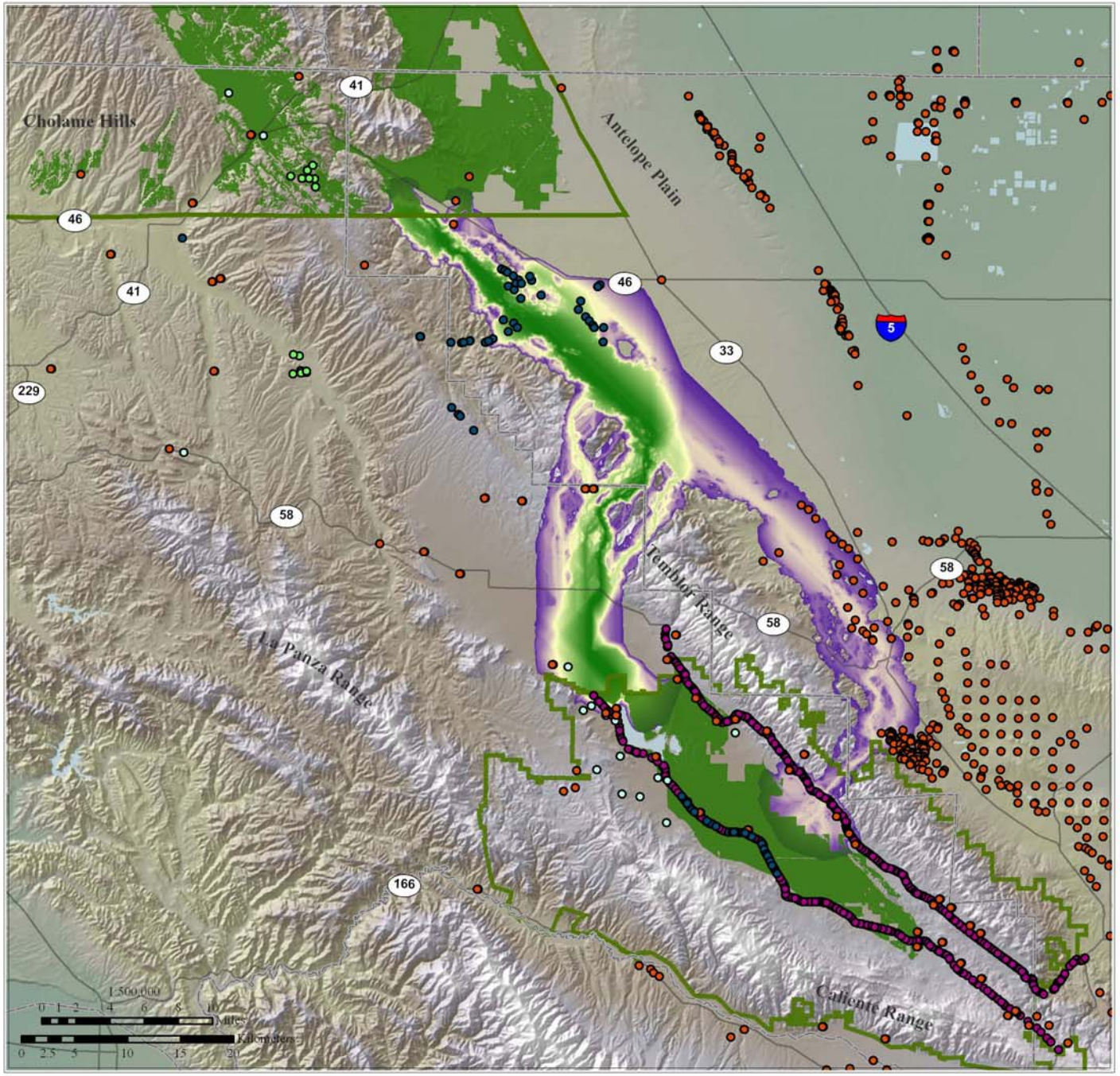
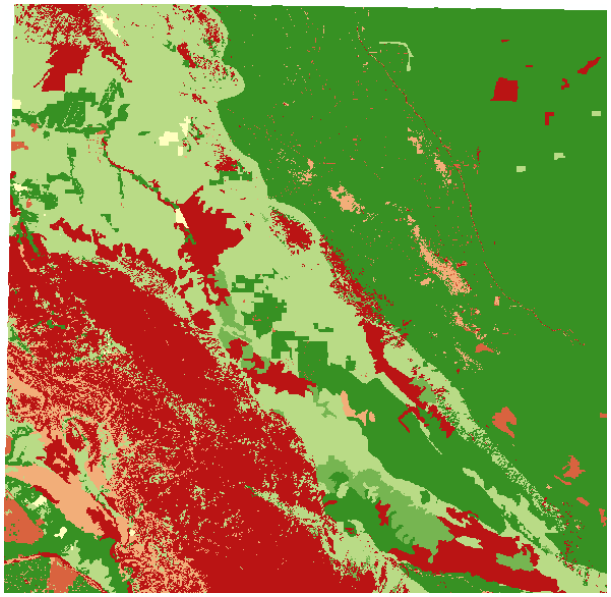


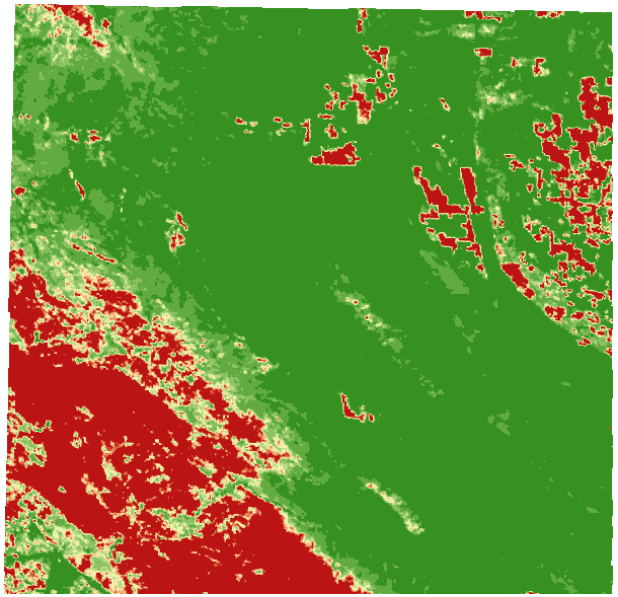
Figure 12.
Landscape Permeability
for
San Joaquin kit fox
(based on suitability ratings)



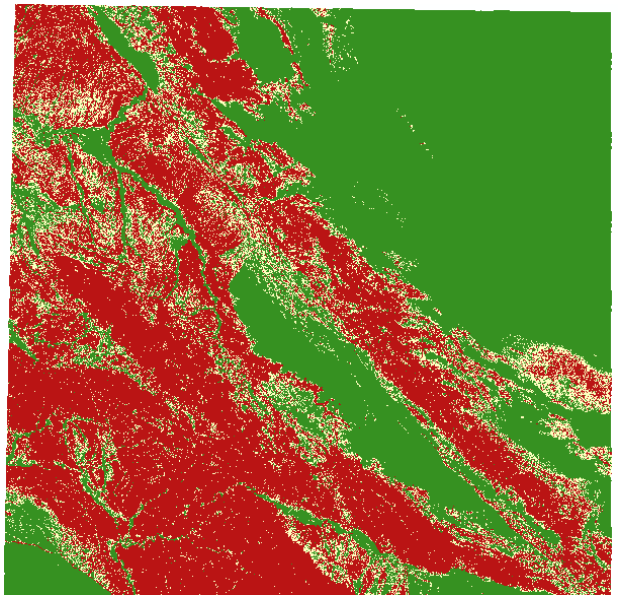
Kit Fox Permeability inputs based on Permeability Ratings



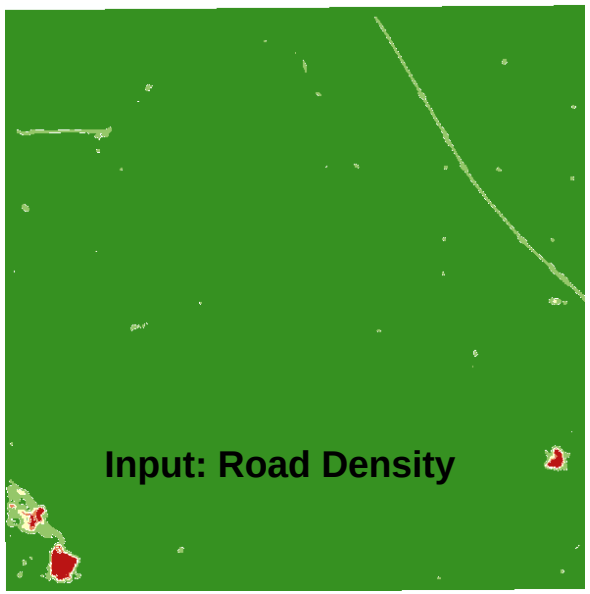
Input: Vegetation



Input: Vegetation Density



Input: Terrain Ruggedness



Input: Road Density

(Vegetation Score * 40%) +
(Road Density Score * 5%) +
(Terrain Ruggedness Score * 50%) +
(Vegetation Density Score * 5%) = cost

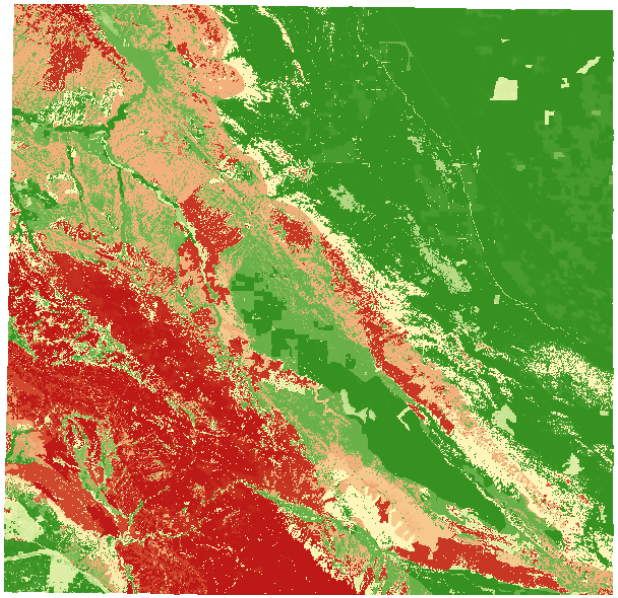
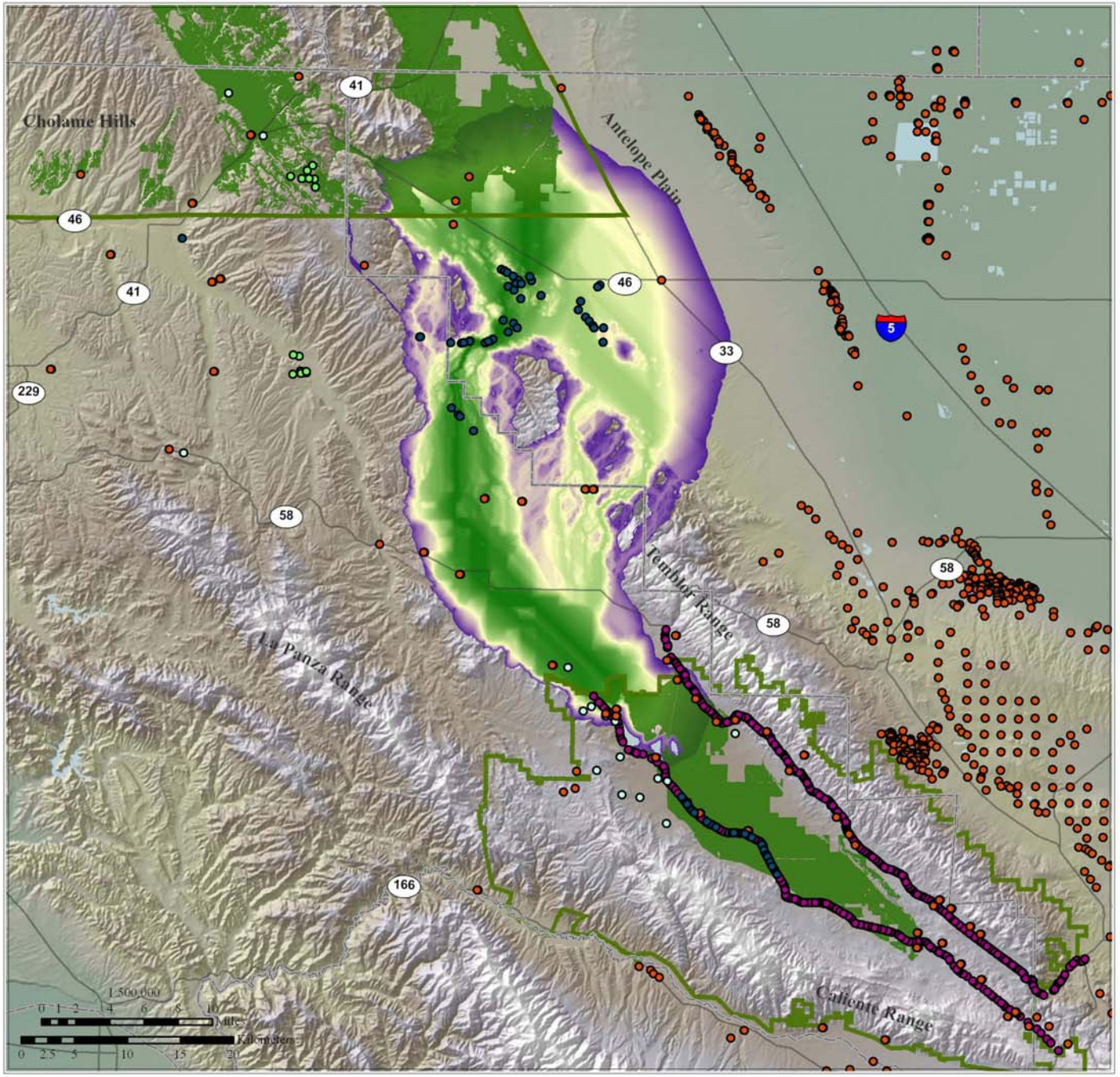


Figure 13.
Landscape Permeability
for
San Joaquin kit fox
(based on permeability ratings)



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BEFORE THE ENERGY RESOURCES CONSERVATION AND DEVELOPMENT COMMISSION OF THE STATE OF CALIFORNIA
1516 NINTH STREET, SACRAMENTO, CA 95814
1-800-822-6228 – WWW.ENERGY.CA.GOV

APPLICATION FOR CERTIFICATION FOR THE *CARRIZO ENERGY SOLAR FARM PROJECT*

Docket No. 07-AFC-8

PROOF OF SERVICE
(Revised 2/18/2009)

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*indicates change

DECLARATION OF SERVICE

I, Hilarie Anderson, declare that on April 2, 2009, I served and filed copies of the attached Presentation Slides for Task 1 Webinar. The original document, filed with the Docket Unit, is accompanied by a copy of the most recent Proof of Service list, located on the web page for this project at:
[http://www.energy.ca.gov/sitingcases/carrizo/index.html]. The document has been sent to both the other parties in this proceeding (as shown on the Proof of Service list) and to the Commission's Docket Unit, in the following manner:

(*Check all that Apply*)

For service to all other parties:

_x__sent electronically to all email addresses on the Proof of Service list;

_x__by personal delivery or by depositing in the United States mail at Sacramento, California with first-class postage thereon fully prepaid and addressed as provided on the Proof of Service list above to those addresses **NOT** marked "email preferred."

AND

For filing with the Energy Commission:

____sending an original paper copy and one electronic copy, mailed and emailed respectively, to the address below **(preferred method);**

OR

_____depositing in the mail an original and 12 paper copies, as follows:

CALIFORNIA ENERGY COMMISSION
Attn: Docket No. 07-AFC-8
1516 Ninth Street, MS-4
Sacramento, CA 95814-5512

docket@energy.state.ca.us

I declare under penalty of perjury that the foregoing is true and correct.

Original Signature in Dockets
Hilarie Anderson