# Santa Cruz River Riparian Vegetation Mapping Project
# Santa Cruz County, Arizona

## 2009

## INDEX MAP SERIES

Santa Cruz County, Arizona

Prepared for Santa Cruz County

2009

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## Acknowledgments

This project resulted from the efforts of many people and organizations. Funding for the project was provided by generous grants from the Environmental Protection Agency Wetlands Division and the Mead Foundation. Friends of the Santa Cruz River contributed significant time and expertise throughout the project. Aerial photographs were used to identify seasonal changes in vegetation and were taken during aerial flights provided by the volunteer-based aviation organizations Lighthawk and EcoFlight. Santa Cruz County staff provided historic aerial photographs and field assistance. Friends of the Santa Cruz River and Tucson Audubon Society provided valuable review of the final report.

**Disclaimer:** Roads and parcels are shown on all maps for reference only and may not always reflect existing conditions and/or actual boundary locations accurately. For most up to date information on road and parcel data, contact Santa Cruz County.

# *Introduction*

The maps on the following pages display the results of the first riparian vegetation map created for the Upper Santa Cruz River from the US-Mexico border to the Pima County-Santa Cruz County line. Knowledge of the distribution, extent, and species composition of the riparian community along the Santa Cruz River provided in this map establishes a vital foundation from which to develop a comprehensive riparian conservation and floodplain protection program.

Riparian vegetation communities represent a small percentage of the land cover in Santa Cruz County but provide invaluable services, functions, and benefits to the region. Working in tandem, riparian vegetation and floodplain lands enhance livelihoods in Santa Cruz County by:

- Filtering effluent-dominated water prior to assimilation with ground water drinking supplies;
- Slowing flood waters;
- Reducing erosion potential along stream banks;
- Facilitating groundwater recharge;
- Sustaining resident and migratory wildlife species;
- Providing recreational opportunities for the local community (i.e. hiking, birding, picnicking);
- Increasing property values of properties adjacent to riparian lands;
- Attracting tourist dollars and new residents to the area.

For a complete summary of the map process and results, please see accompanying report, **"Santa Cruz River Riparian Vegetation Mapping Project, Santa Cruz County, Arizona"** (available at: www.co.santa-cruz.az.us/com_development).

**Purpose:** These maps were created to help landowners, stakeholders, and interested community members identify the riparian vegetation located in a particular area.

**Definitions:** The following is a list of terms and definitions for terms used in the making of the vegetation map.

- *Polygon*: a shape drawn about a particular area and used to delineate the location of an area of relatively uniform vegetation; a mapping unit.
- *Stratum*: term referring to one of three vegetation height classes, which generally coincide with plant life forms – trees, shrubs, or grasses (herbaceous).
- *Formation*: a vegetation type defined by the structural appearance of the dominant plant life form or stratum present, such as forest, shrubland, or savanna (grassland).
- *Alliance*: a vegetation classification unit defined by a characteristic species or group of species, one of which is typically in the dominant stratum of vegetation (eg. Cottonwood-Willow Forest). The order of species names reflect the order of dominance; names in brackets [Cottonwood-Willow] indicate co-dominance.
- *Agriculture*: any area with evidence of current or recent use for growing food plants or grazing of domesticated animals.
- *Developed woodland*: an area dominated by trees, but includes several buildings and roads, driveways, and/or parking lots that appeared to be maintained.
- *Strand*: an area dominated by sand with very little vegetation. Commonly found in dry portions of the river bed.

# *Guide to Maps*

To locate the region of interest, start by looking at the index map. A yellow grid placed over the entire mapped region along the Santa Cruz River will identify which map page to turn to for a detailed map of that area. All map pages are labeled in the upper right hand corner with the corresponding label in the grid square of the index map.

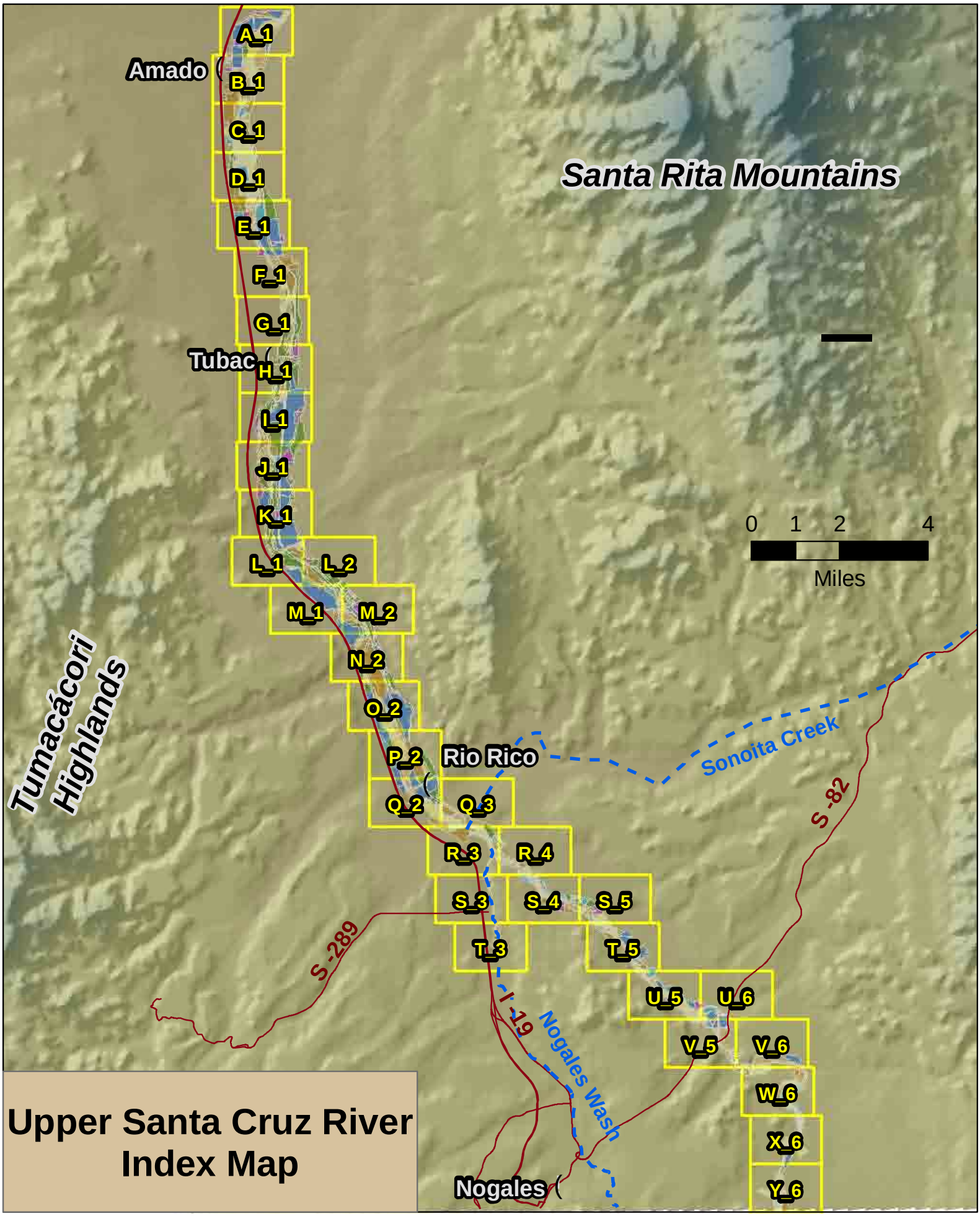
The maps display the vegetation formation (forest, woodland, etc.) located within a given polygon at the time the vegetation map was created. Each map page has a color key to aid in identification of the formation depicted.

In addition to formation, the map identifies the dominant riparian vegetation located in each polygon. All polygons have been labeled with a unique identification number. Each unique id consists of a numerical alliance code (**see adjacent table**) indicating the dominant riparian species, followed by a three-digit number to identify the particular polygon (e.g. 1.005, the fifth polygon of alliance type 1).

Riparian plant species were not identified in polygons of the agriculture or developed woodland formation. Leading codes of 50 or 60 refer to agriculture and developed woodland formations respectively, and not to alliances (e.g. 50.001 = the first polygon of agriculture).

Following the detailed maps, four regional maps depict the distribution of areas considered conservation priorities in the region mapped. For more information on how these areas were chosen, please reference the full report cited on the previous page.

| Alliance Code | Alliance |
|---|---|
| 1 | Cottonwood-Goodding's Willow Forest |
| 2 | Cottonwood-[Velvet Mesquite-Elderberry] Forest |
| 3 | Tamarisk Forest |
| 4 | VelvetMesquite-[Elderberry-Netleaf Hackberry] Forest |
| 5 | VelvetMesquite-CatclawAcacia Forest |
| 6 | VelvetMesquite Forest |
| 7 | Cottonwood-Goodding's Willow-Tamarisk Woodland |
| 8 | Cottonwood-Goodding's Willow Woodland |
| 9 | Cottonwood-Velvet Mesquite Woodland |
| 10 | Cottonwood Woodland |
| 11 | VelvetMesquite-Catclaw Acacia Woodland |
| 12 | VelvetMesquite-Elderberry Woodland |
| 13 | VelvetMesquite-NetleafHackberry Woodland |
| 14 | VelvetMesquite Woodland |
| 15 | VelvetMesquite/CatclawAcacia Wooded Shrubland |
| 16 | VelvetMesquite/VelvetMesquite Wooded Shrubland |
| 17 | CatclawAcacia - Whitethorn Acacia- CatclawMimosa Shrubland |
| 18 | Hymenoclea Shrubland |
| 19 | Seepwillow Shrubland |
| 20 | Tamarisk Shrubland |
| 21 | VelvetMesquite - CatclawAcacia Shrubland |
| 22 | VelvetMesquite Shrubland |
| 23 | Cottonwood/Amaranth Tree Savanna |
| 24 | Cottonwood/NativeGrass Tree Savanna |
| 25 | Elderberry/Amaranth Tree Savanna |
| 26 | Tamarisk/Amaranth Tree Savanna |
| 27 | VelvetMesquite/Amaranth Tree Savanna |
| 28 | VelvetMesquite/NativeGrass Tree Savanna |
| 29 | VelvetMesquite/Tumbleweed Tree Savanna |
| 30 | Baccharis species/Amaranth Shrub Savanna |
| 31 | Baccharis species/Grass Shrub Savanna |
| 32 | Hymenoclea/Mixed Herb Shrub Savanna |
| 33 | VelvetMesquite/Mixed Herb Shrub Savanna |
| 34 | Amaranth Herbaceous |
| 35 | Forbs Herbaceous |
| 36 | Grass Herbaceous |
| 37 | Unknown Herbaceous |
| 38 | Cottonwood-Goodding's Willow Strand |
| 39 | Herbaceous Strand |
| 40 | Shrub Strand |


Upper Santa Cruz River
Index Map
Amado
Tubac
Rio Rico
Nogales
Santa Rita Mountains
Tumacácori Highlands
Sonoita Creek
Nogales Wash
I-19
S-289
S-82
A_1
B_1
C_1
D_1
E_1
F_1
G_1
H_1
I_1
J_1
K_1
L_1
L_2
M_1
M_2
N_2
O_2
P_2
Q_2
Q_3
R_3
R_4
S_3
S_4
S_5
T_3
T_5
U_5
U_6
V_5
V_6
W_6
X_6
Y_6
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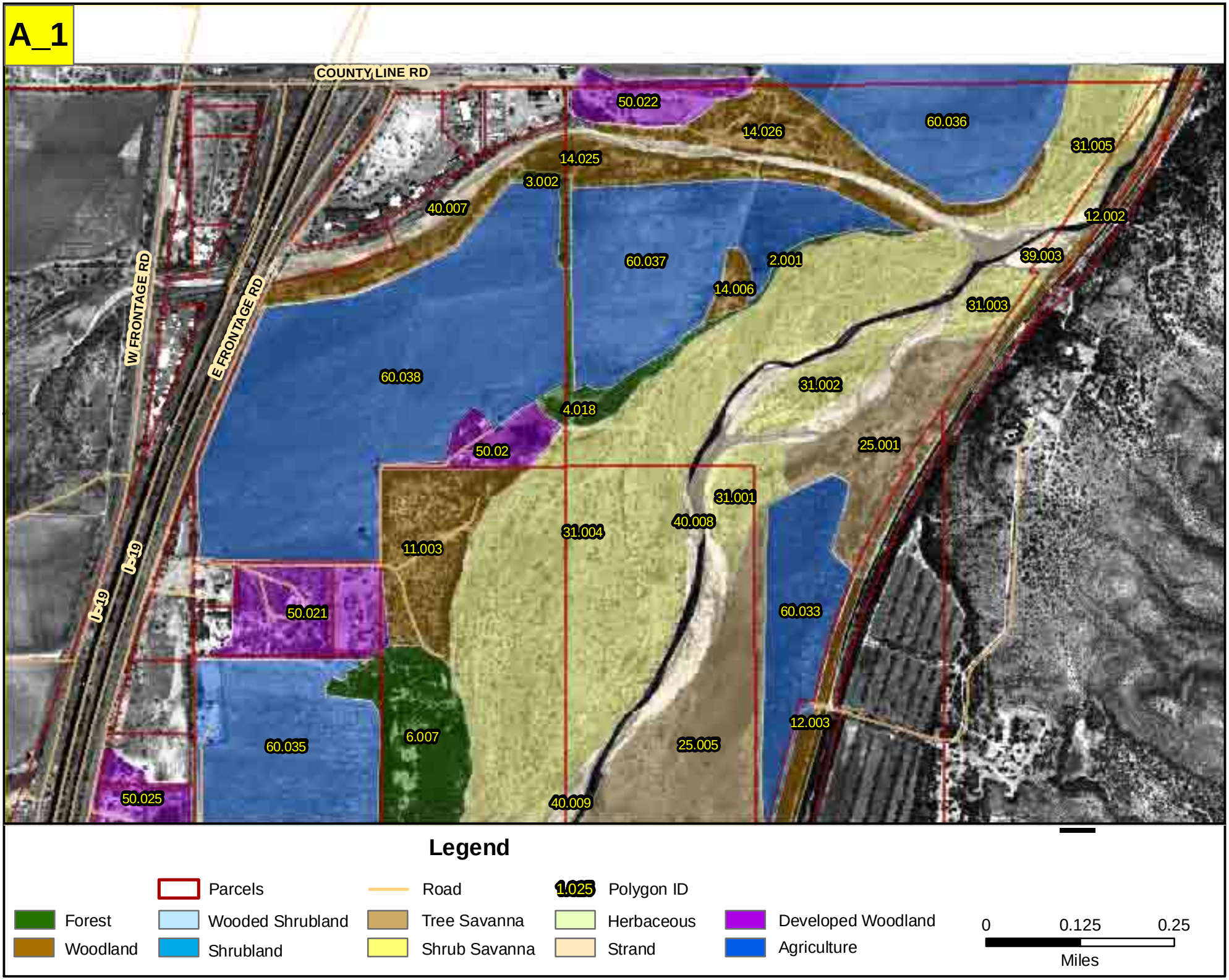
Miles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3.002
40.007
12.002
39.003
60.037
2.001
14.006
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31.002
4.018
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31.001
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11.003
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60.033
12.003
6.007
60.035
25.005
50.025
40.009
Legend
Parcels
Road
1.025 Polygon ID
Forest
Wooded Shrubland
Tree Savanna
Herbaceous
Developed Woodland
Woodland
Shrubland
Shrub Savanna
Strand
Agriculture
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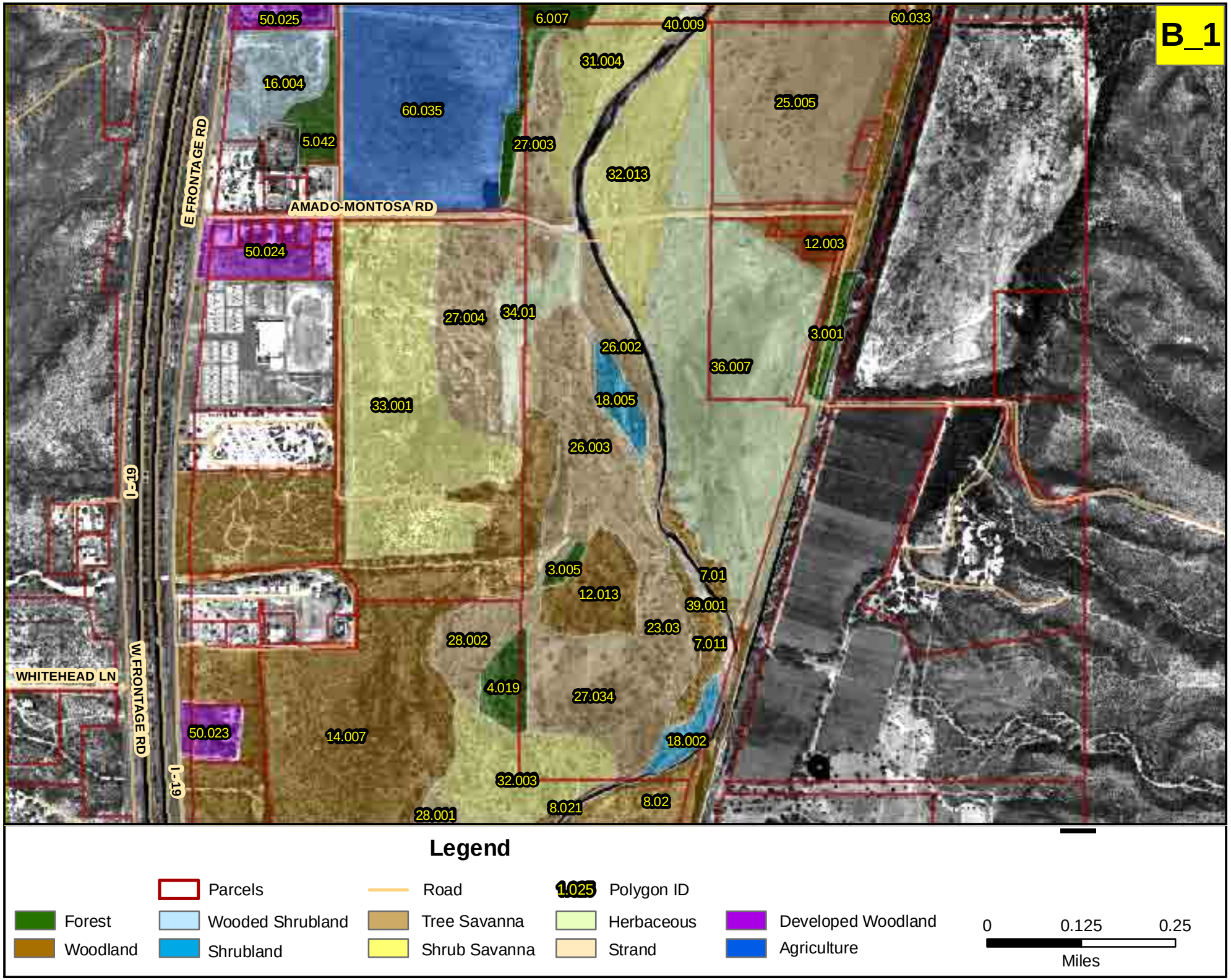
Miles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60.035
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5.042
27.003
32.013
E FRONTAGE RD
AMADO-MONTOSA RD
50.024
12.003
27.004
34.01
3.001
26.002
36.007
33.001
18.005
26.003
I-19
3.005
7.01
12.013
39.001
23.03
28.002
7.011
WHITEHEAD LN
W FRONTAGE RD
4.019
27.034
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14.007
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I-19
32.003
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8.02
28.001
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Shrub Savanna
Strand
Agriculture
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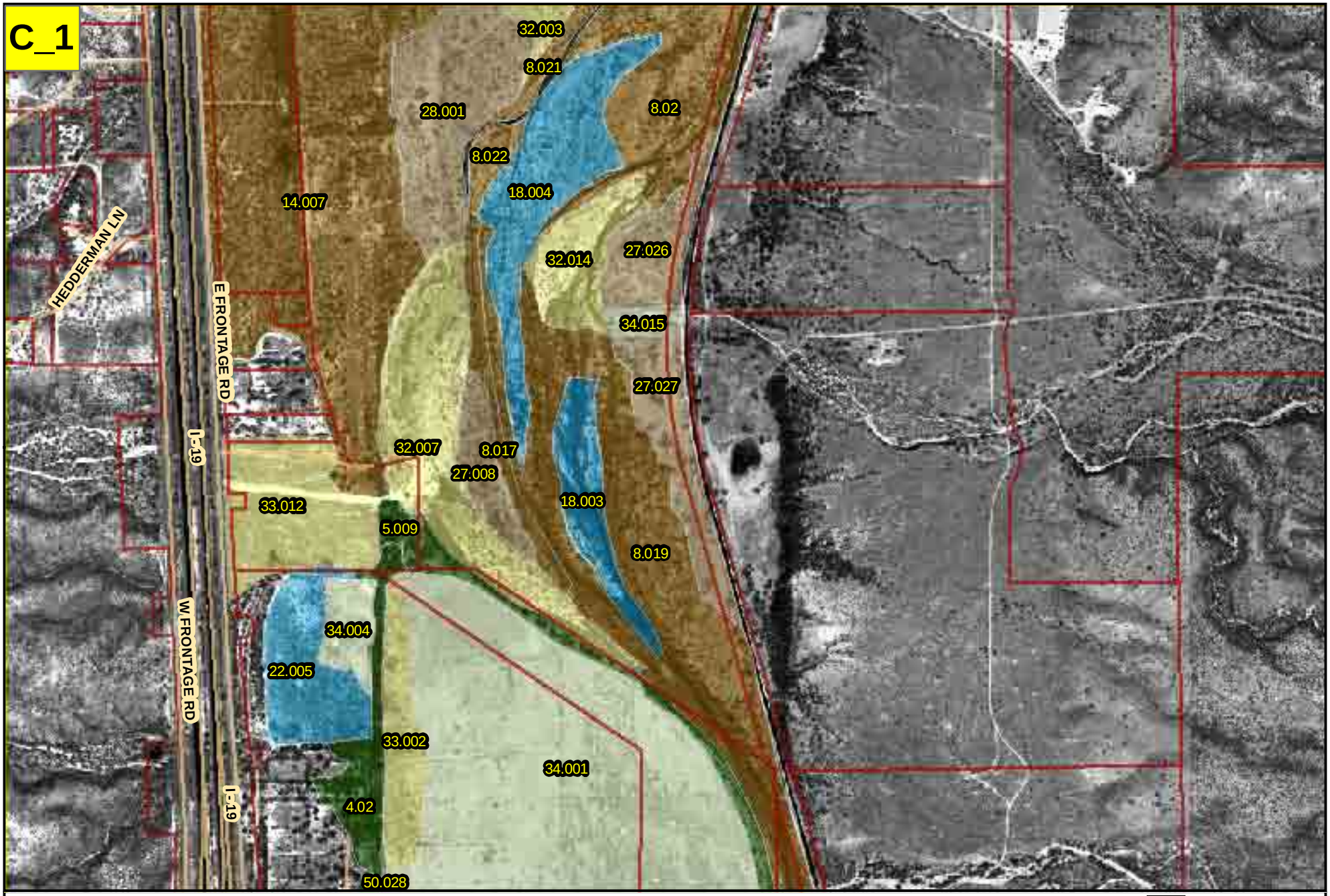
Miles




## Legend

- Parcels
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- 1.025 Polygon ID
- Forest
- Woodland
- Wooded Shrubland
- Shrubland
- Tree Savanna
- Shrub Savanna
- Herbaceous
- Strand
- Developed Woodland
- Agriculture

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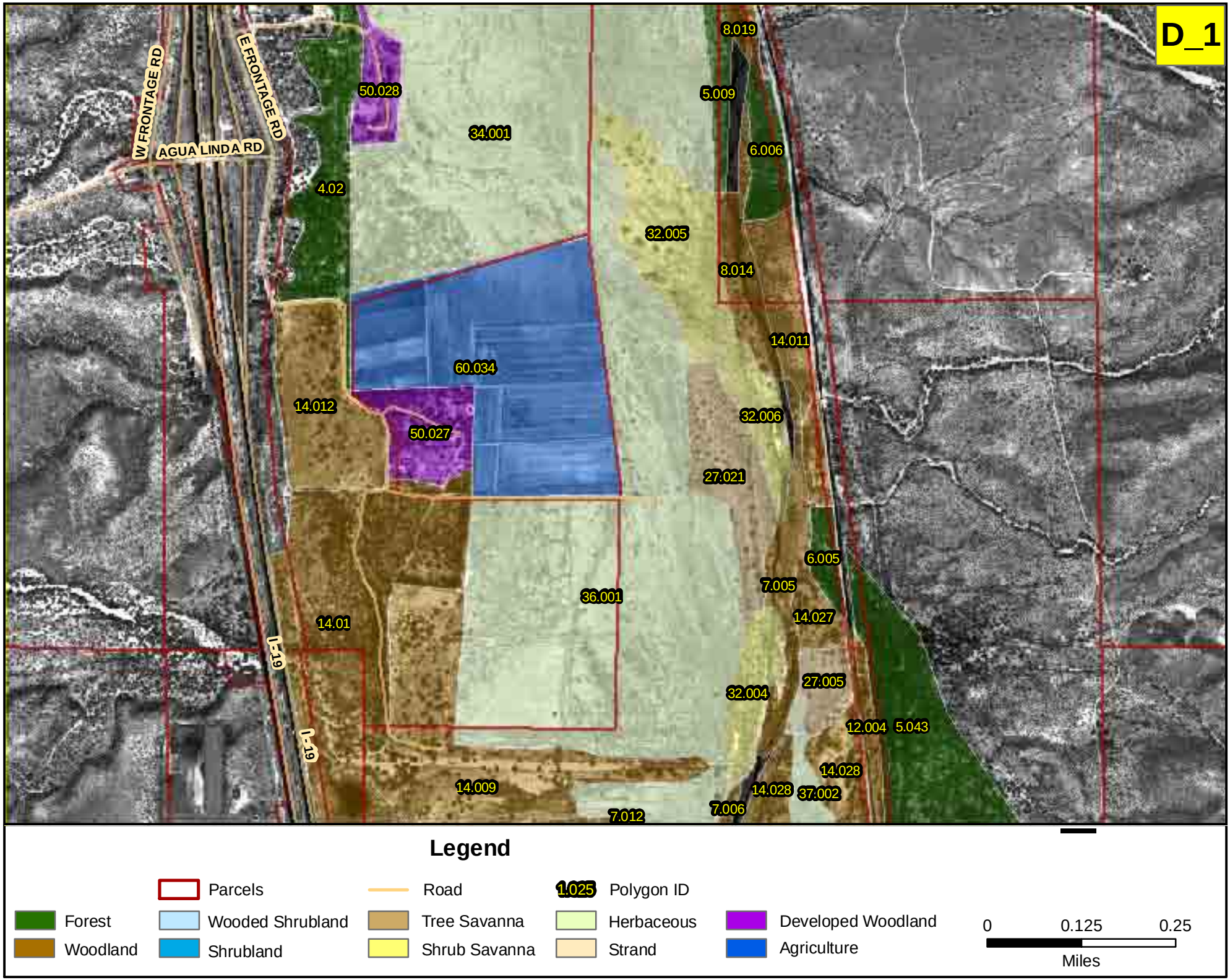
Miles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I-19
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4.02
32.005
8.014
14.011
60.034
14.012
32.006
50.027
27.021
6.005
7.005
36.001
14.027
14.01
27.005
32.004
12.004
5.043
14.028
14.009
14.028
37.002
7.006
7.012
Legend
Parcels
Road
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Forest
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Tree Savanna
Herbaceous
Developed Woodland
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Shrubland
Shrub Savanna
Strand
Agriculture
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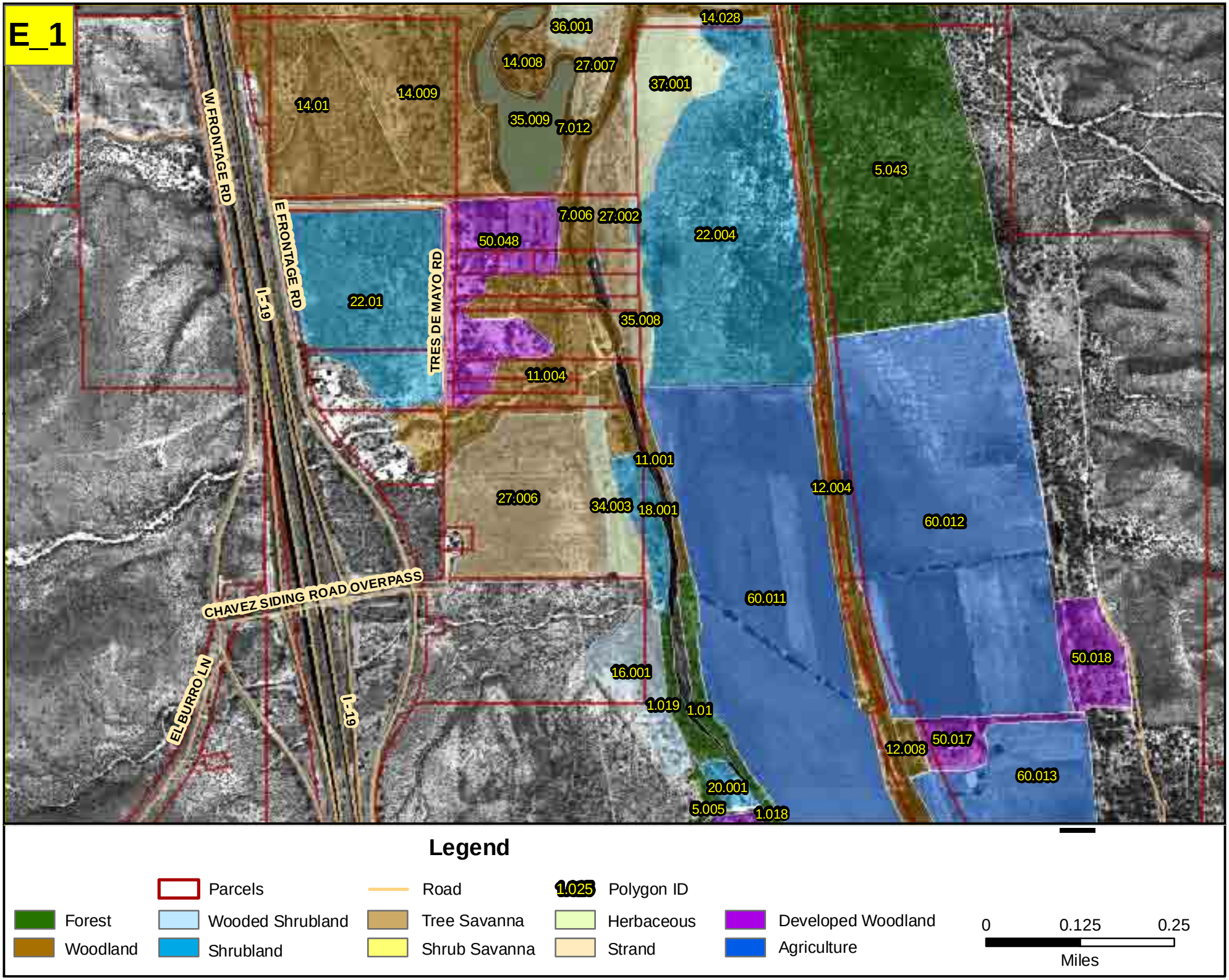
Miles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37.001
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14.01
35.009
7.012
5.043
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E FRONTAGE RD
7.006
27.002
50.048
22.004
TRES DE MAYO RD
I-19
22.01
35.008
11.004
11.001
12.004
27.006
34.003
18.001
60.012
CHAVEZ SIDING ROAD OVERPASS
60.011
50.018
16.001
EL BURRO LN
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1.01
I-19
50.017
12.008
60.013
20.001
5.005
1.018
Legend
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Forest
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Developed Woodland
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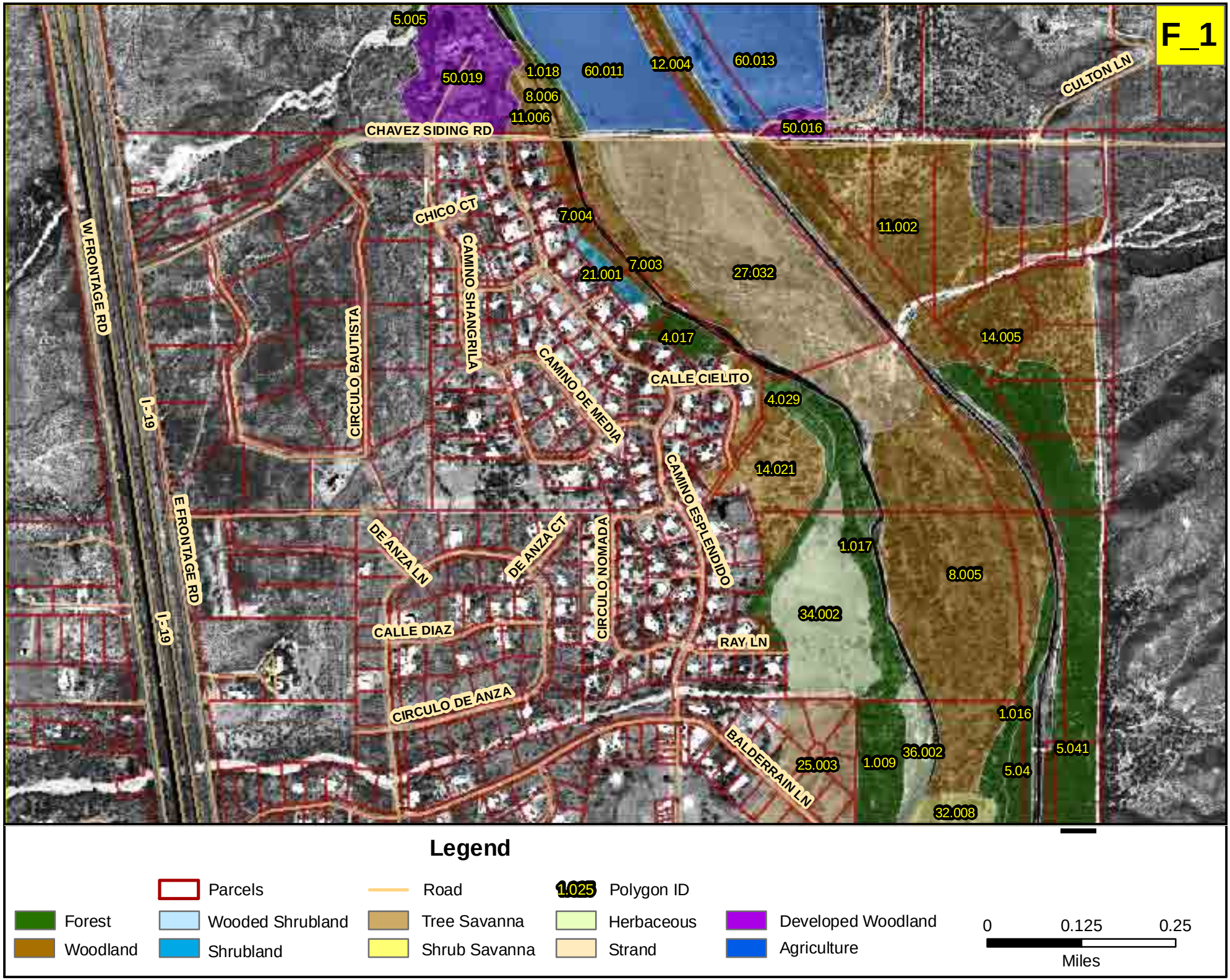
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CHICO CT
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7.003
21.001
27.032
W FRONTAGE RD
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CIRCULO BAUTISTA
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14.005
CAMINO DE MEDIA
CALLE CIELITO
4.029
I - 19
14.021
CAMINO ESPLENDIDO
E FRONTAGE RD
DE ANZA LN
DE ANZA CT
CIRCULO NOMADA
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8.005
34.002
CALLE DIAZ
RAY LN
I - 19
CIRCULO DE ANZA
1.016
BALDERRAIN LN
36.002
5.041
25.003
1.009
5.04
32.008
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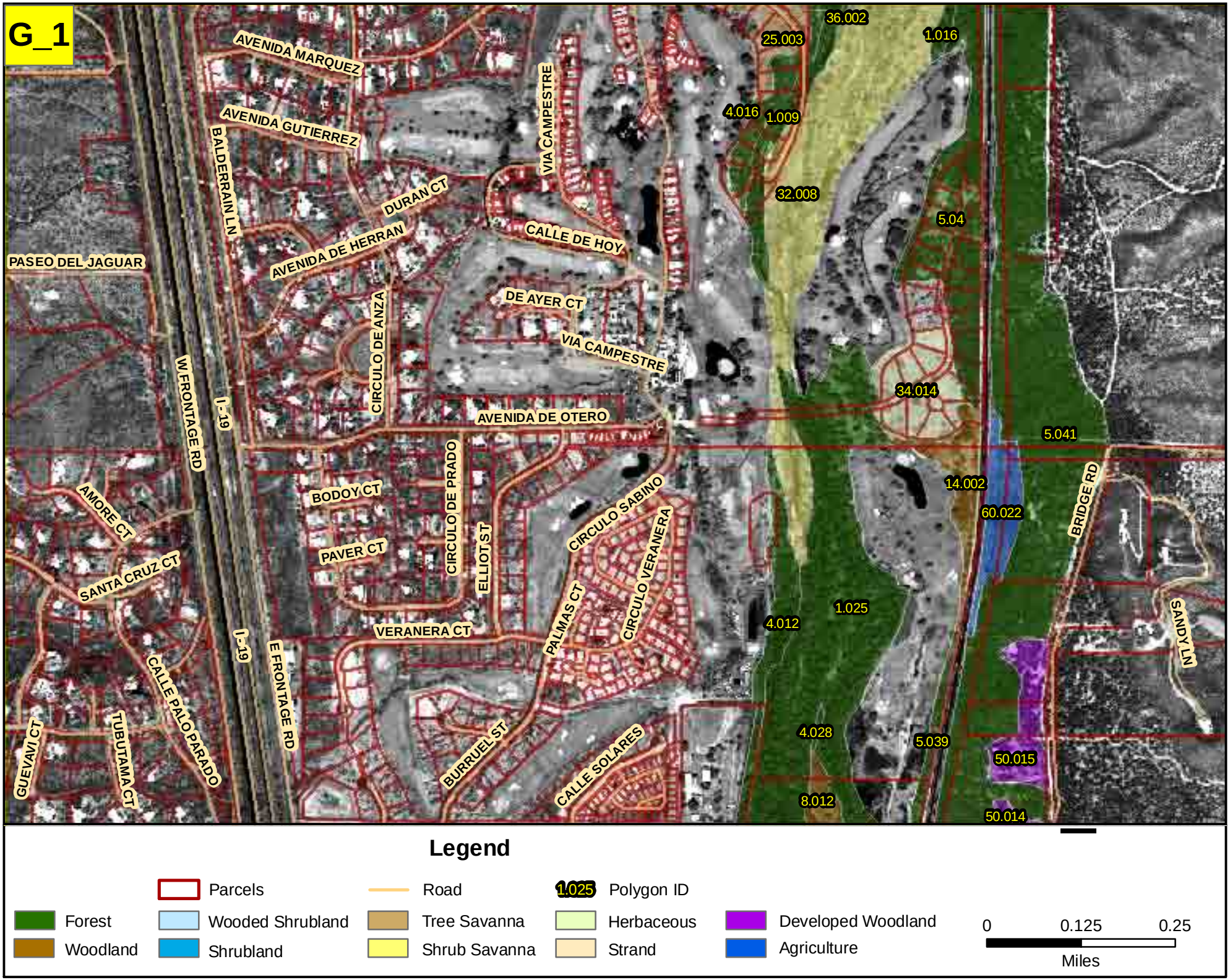
Miles


G_1
AVENIDA MARQUEZ
AVENIDA GUTIERREZ
BALDERRAIN LN
VIA CAMPESTRE
DURAN CT
CALLE DE HOY
AVENIDA DE HERRAN
PASEO DEL JAGUAR
DE AYER CT
VIA CAMPESTRE
CIRCULO DE ANZA
W FRONTAGE RD
I - 19
AVENIDA DE OTERO
BODOY CT
CIRCULO DE PRADO
ELLIOT ST
CIRCULO SABINO
CIRCULO VERANERA
AMORE CT
PAVER CT
SANTA CRUZ CT
VERANERA CT
PALMAS CT
CALLE PALO PARADO
E FRONTAGE RD
BURRUEL ST
CALLE SOLARES
GUEVAVI CT
TUBUTAMA CT
BRIDGE RD
SANDY LN
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25.003
1.016
4.016
1.009
32.008
5.04
34.014
5.041
14.002
60.022
1.025
4.012
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5.039
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8.012
50.014
Legend
Parcels
Road
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Shrub Savanna
Strand
Agriculture
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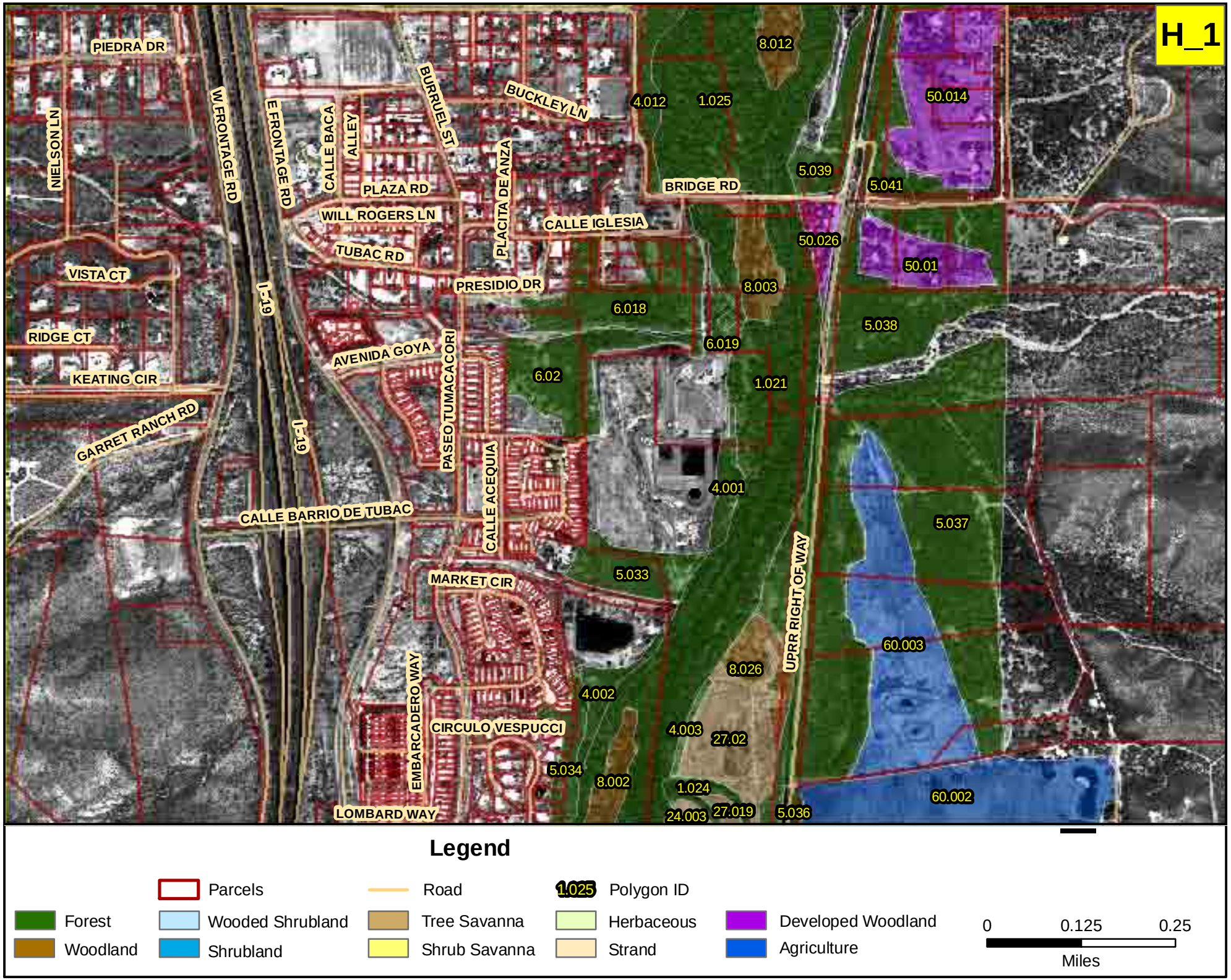
Miles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NIELSON LN
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E FRONTAGE RD
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ALLEY
BURRUEL ST
BUCKLEY LN
PLAZA RD
WILL ROGERS LN
TUBAC RD
PLACITA DE ANZA
CALLE IGLESIA
BRIDGE RD
VISTA CT
I-19
PRESIDIO DR
RIDGE CT
AVENIDA GOYA
KEATING CIR
PASEO TUMACACORI
CALLE ACEQUIA
GARRET RANCH RD
CALLE BARRIO DE TUBAC
MARKET CIR
UPRR RIGHT OF WAY
EMBARCADERO WAY
CIRCULO VESPUCCI
LOMBARD WAY
8.012
4.012
1.025
50.014
5.039
5.041
50.026
50.01
8.003
6.018
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5.034
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Developed Woodland
Woodland
Shrubland
Shrub Savanna
Strand
Agriculture
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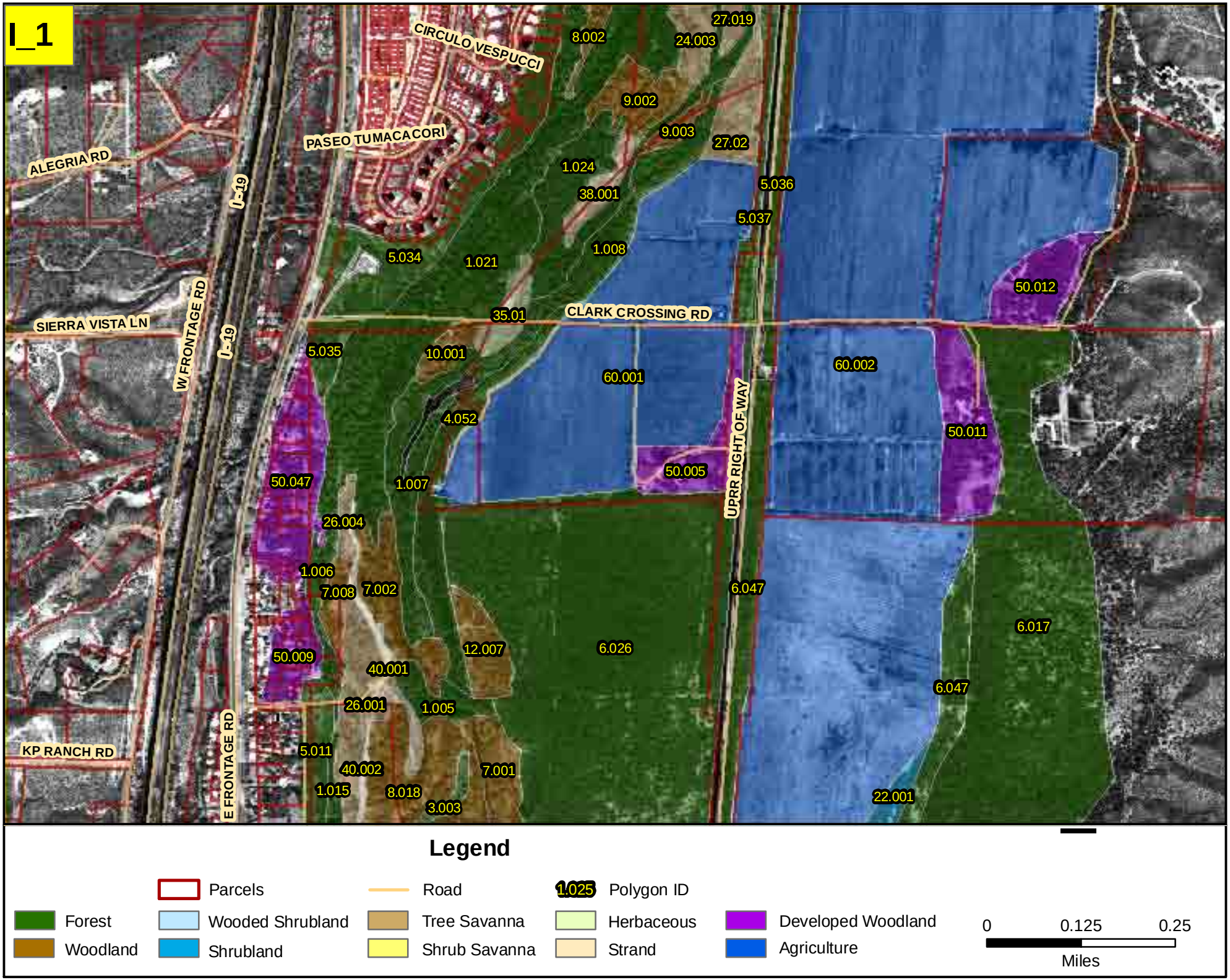
0.25
Miles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CLARK CROSSING RD
UPRR RIGHT OF WAY
KP RANCH RD
E FRONTAGE RD
27.019
8.002
24.003
9.002
9.003
27.02
1.024
38.001
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8.018
3.003
22.001
Legend
Parcels
Road
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Herbaceous
Developed Woodland
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Shrub Savanna
Strand
Agriculture
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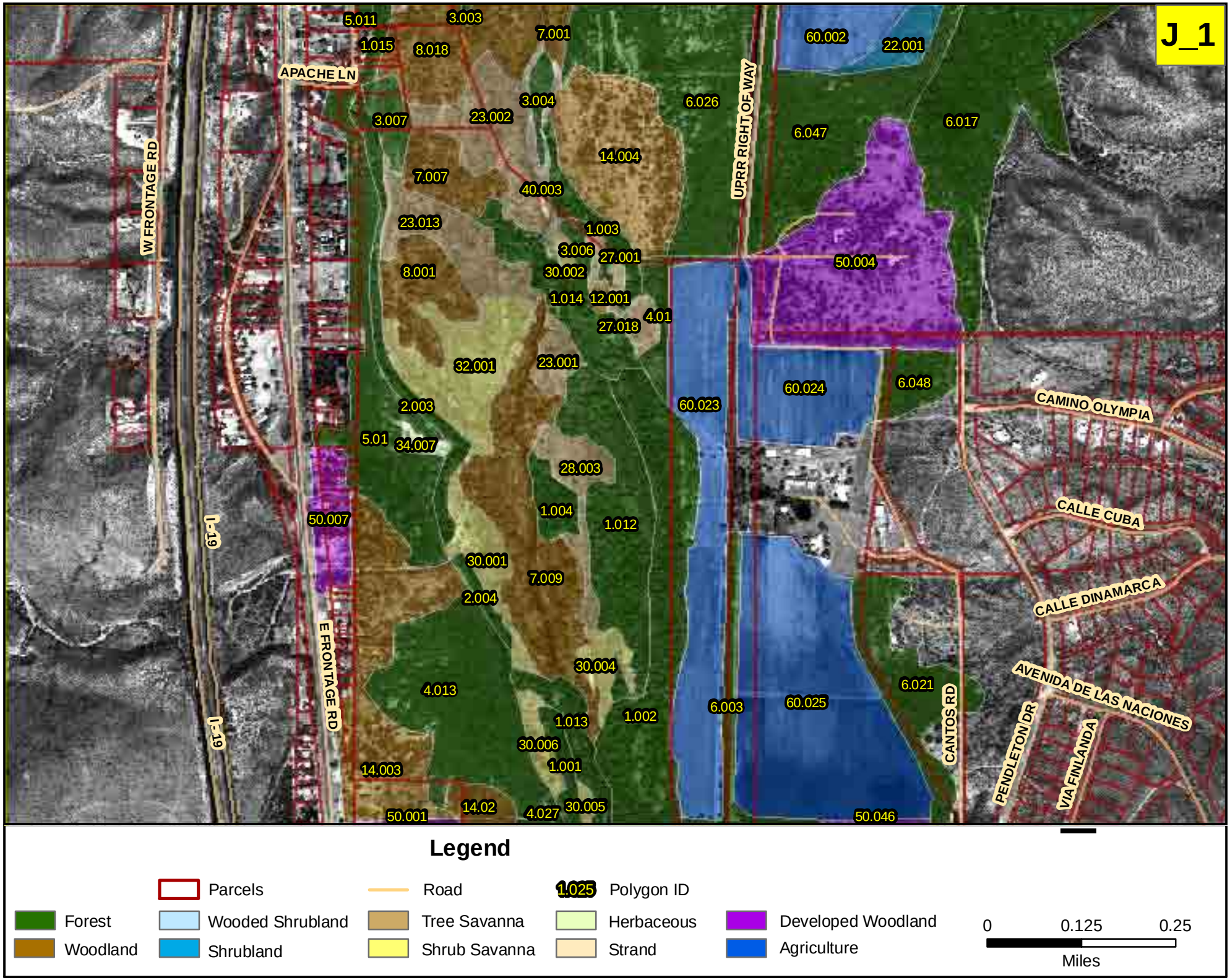
Miles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I-19
I-19
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CALLE DINAMARCA
AVENIDA DE LAS NACIONES
CANTOS RD
PENDLETON DR
VIA FINLANDA
5.011
3.003
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22.001
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Shrub Savanna
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Agriculture
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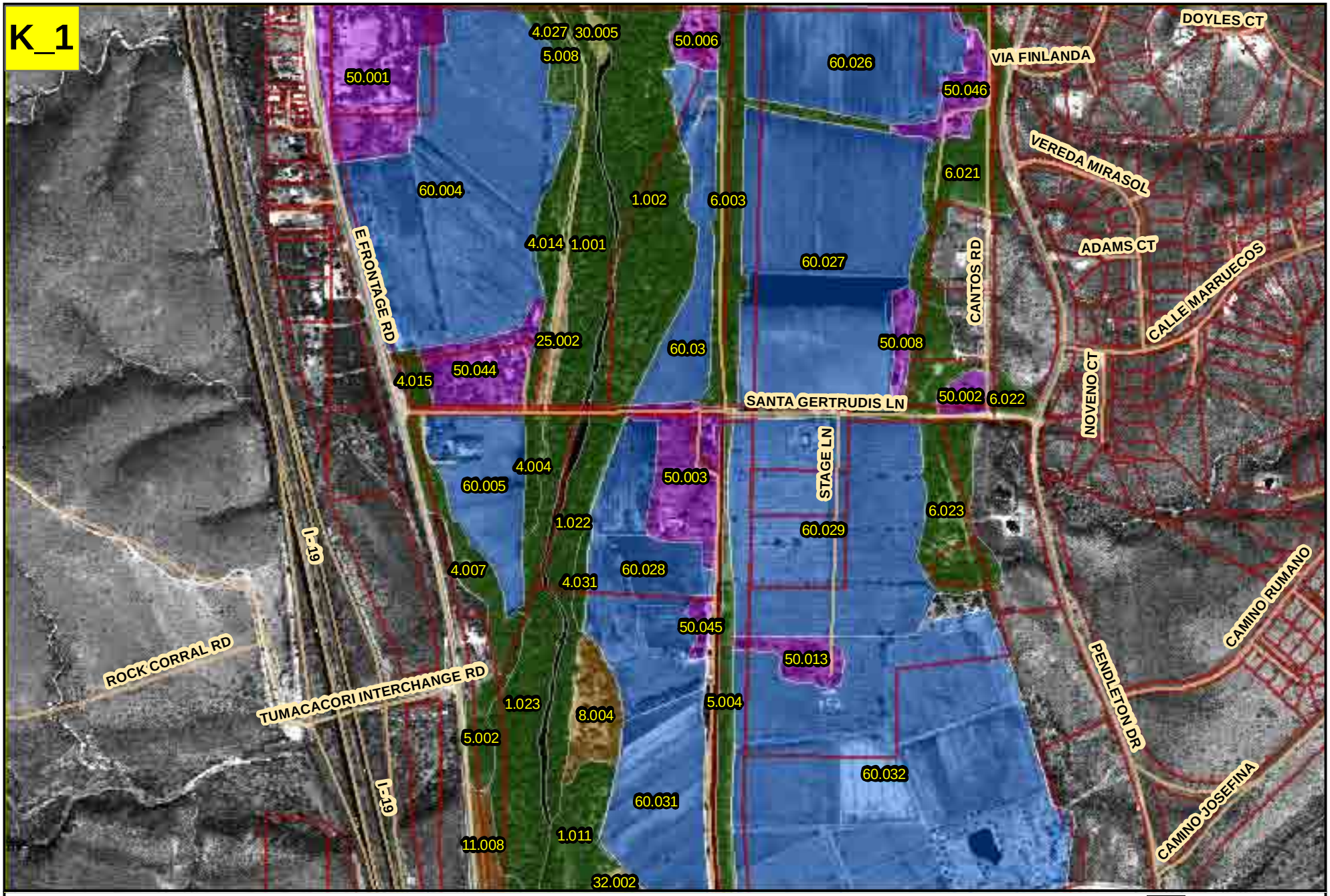
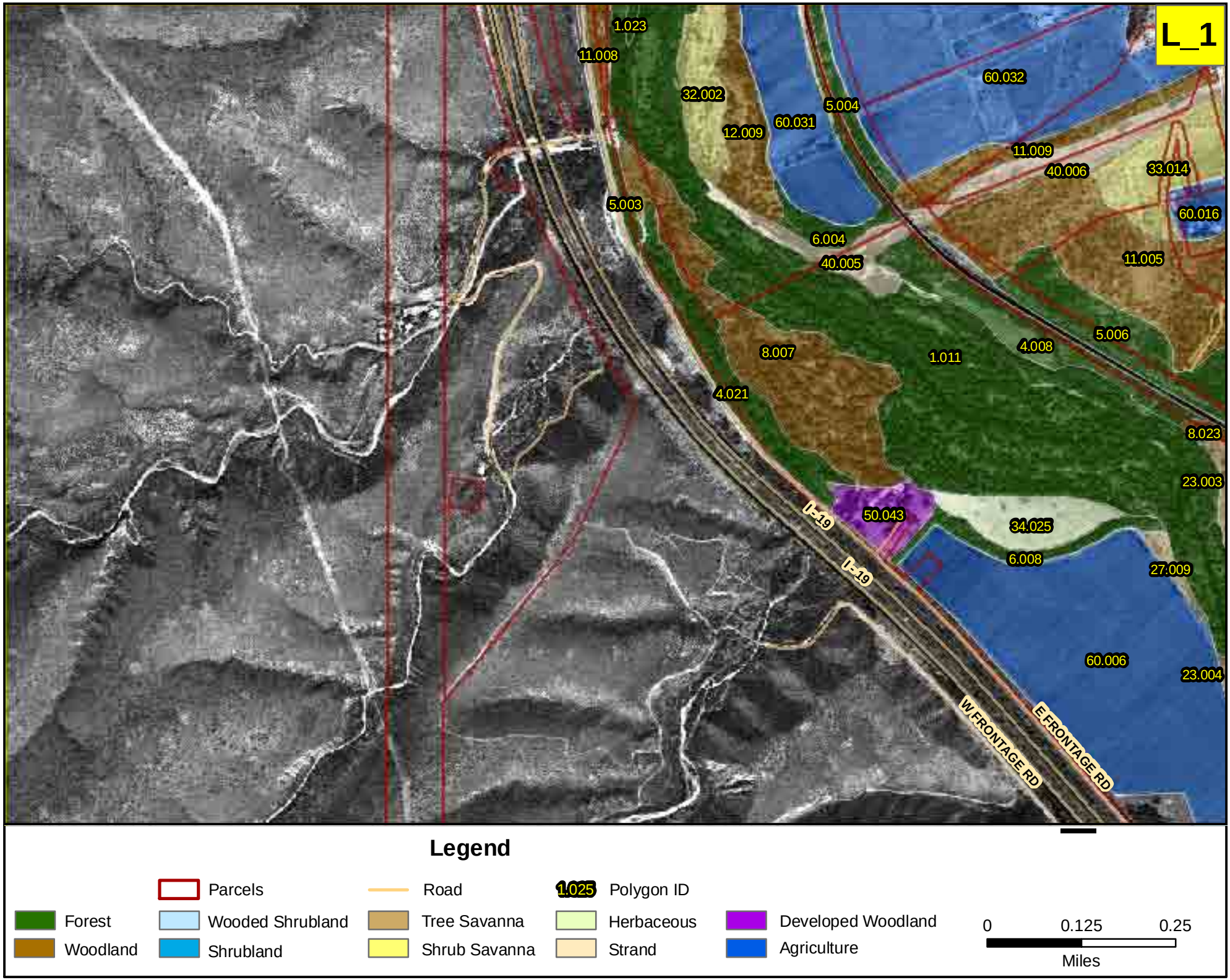
Miles




## Legend

- Parcels
- Road
- 1.025 Polygon ID
- Forest
- Wooded Shrubland
- Tree Savanna
- Herbaceous
- Developed Woodland
- Woodland
- Shrubland
- Shrub Savanna
- Strand
- Agriculture

0 0.125 0.25
Miles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8.023
23.003
I-19
50.043
34.025
6.008
27.009
I-19
60.006
23.004
W FRONTAGE RD
E FRONTAGE RD
Legend
Parcels
Road
1.025 Polygon ID
Forest
Wooded Shrubland
Tree Savanna
Herbaceous
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Woodland
Shrubland
Shrub Savanna
Strand
Agriculture
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0.125
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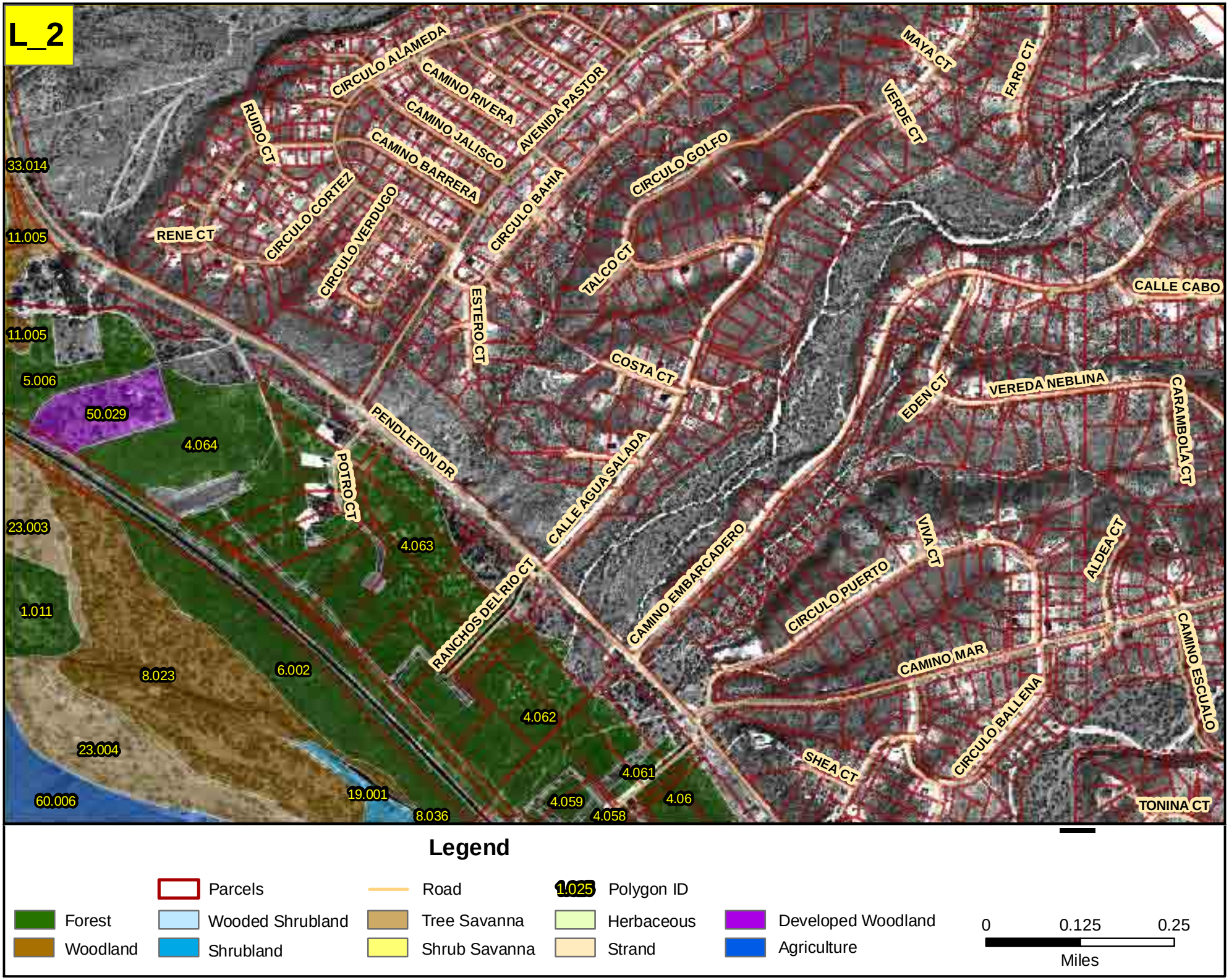
Miles


L_2
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CAMINO RIVERA
AVENIDA PASTOR
CAMINO JALISCO
CAMINO BARRERA
RUIDO CT
CIRCULO CORTEZ
CIRCULO VERDUGO
CIRCULO BAHIA
CIRCULO GOLFO
MAYA CT
FARO CT
VERDE CT
RENE CT
TALCO CT
ESTERO CT
COSTA CT
CALLE CABO
EDEN CT
VEREDA NEBLINA
CARAMBOLA CT
PENDLETON DR
POTRO CT
CALLE AGUA SALADA
RANCHOS DEL RIO CT
CAMINO EMBARCADERO
VIVA CT
ALDEA CT
CIRCULO PUERTO
CAMINO MAR
CAMINO ESCUALO
CIRCULO BALLENA
SHEA CT
TONINA CT
33.014
11.005
11.005
5.006
50.029
4.064
23.003
4.063
1.011
8.023
6.002
4.062
23.004
4.061
60.006
19.001
4.059
4.06
8.036
4.058
Legend
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Wooded Shrubland
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Herbaceous
Developed Woodland
Woodland
Shrubland
Shrub Savanna
Strand
Agriculture
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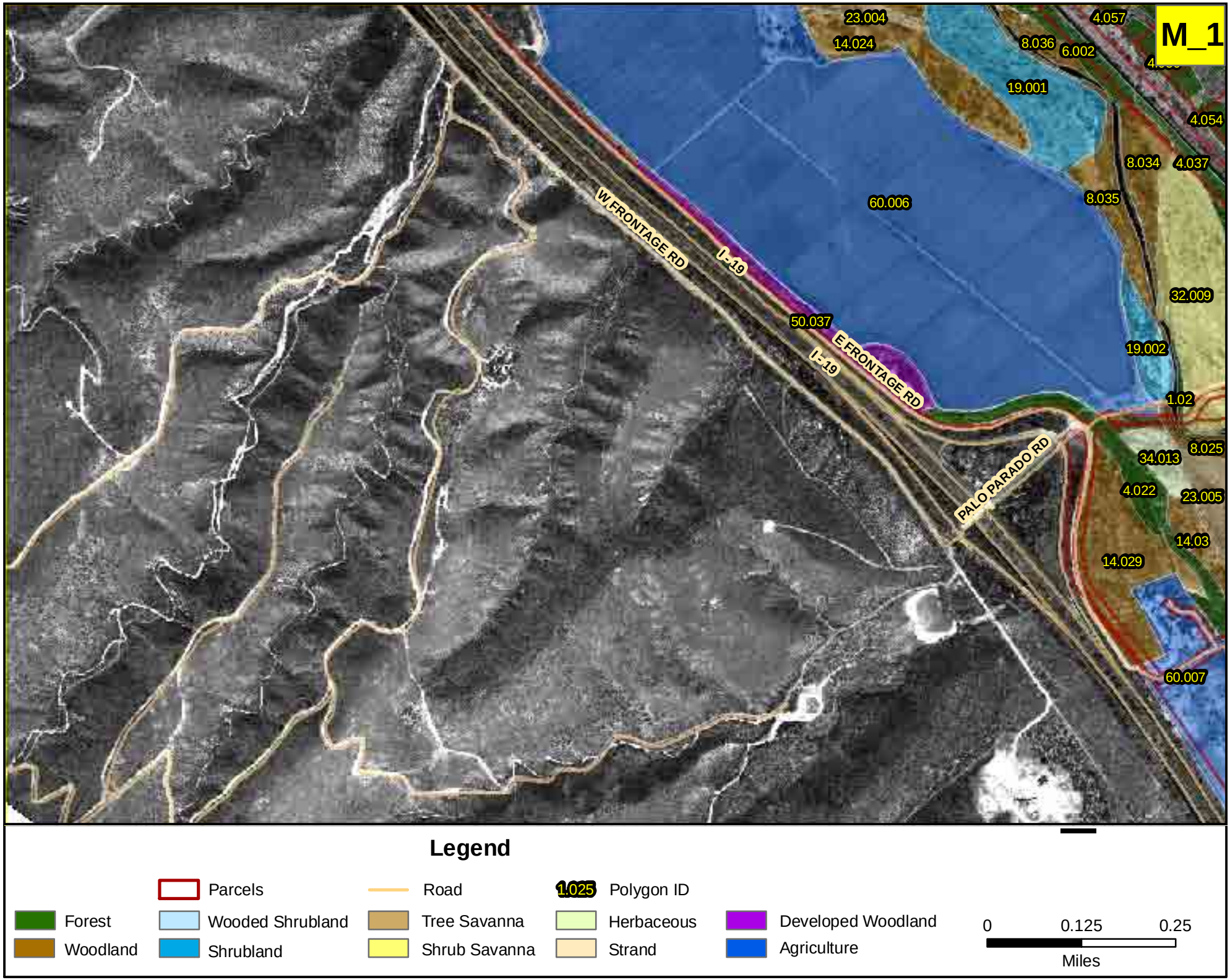
Miles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60.006
W FRONTAGE RD
I-19
32.009
50.037
E FRONTAGE RD
I-19
19.002
1.02
8.025
34.013
PALO PARADO RD
4.022
23.005
14.03
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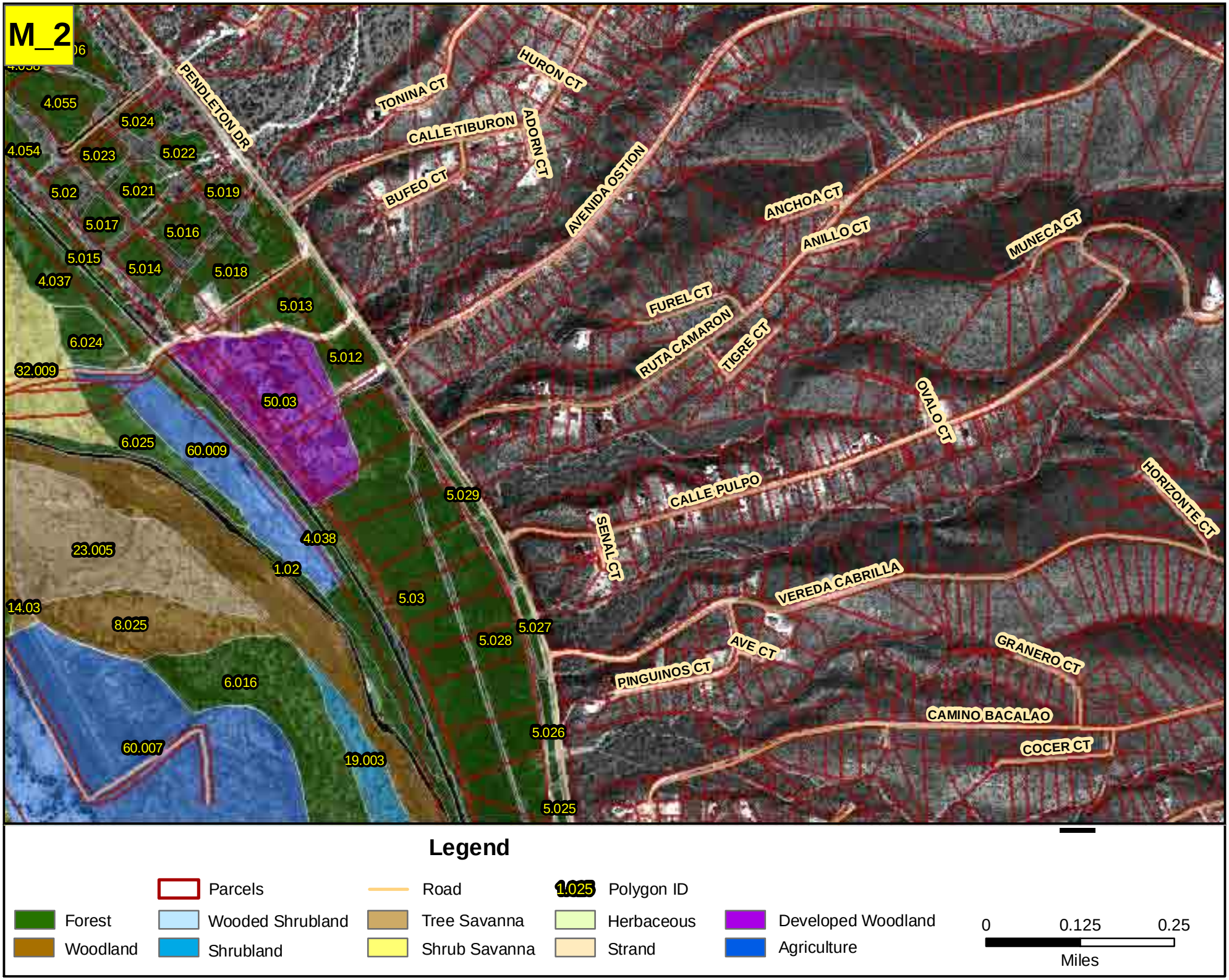
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HURON CT
CALLE TIBURON
ADORN CT
BUFEO CT
AVENIDA OSTION
ANCHOA CT
ANILLO CT
MUNECA CT
FUREL CT
RUTA CAMARON
TIGRE CT
OVALO CT
CALLE PULPO
HORIZONTE CT
SENAL CT
VEREDA CABRILLA
AVE CT
GRANERO CT
PINGUINOS CT
CAMINO BACALAO
COCER CT
4.055
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4.054
5.023
5.022
5.02
5.021
5.019
5.017
5.016
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23.005
1.02
5.03
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Tree Savanna
Herbaceous
Developed Woodland
Woodland
Shrubland
Shrub Savanna
Strand
Agriculture
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Miles

## Legend

- Parcels
- Road
- 1.025 Polygon ID
- Forest
- Wooded Shrubland
- Tree Savanna
- Herbaceous
- Developed Woodland
- Woodland
- Shrubland
- Shrub Savanna
- Strand
- Agriculture

0 0.125 0.25
Miles

## Legend

- Parcels
- Road
- 1.025 Polygon ID
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- Tree Savanna
- Herbaceous
- Developed Woodland
- Woodland
- Shrubland
- Shrub Savanna
- Strand
- Agriculture

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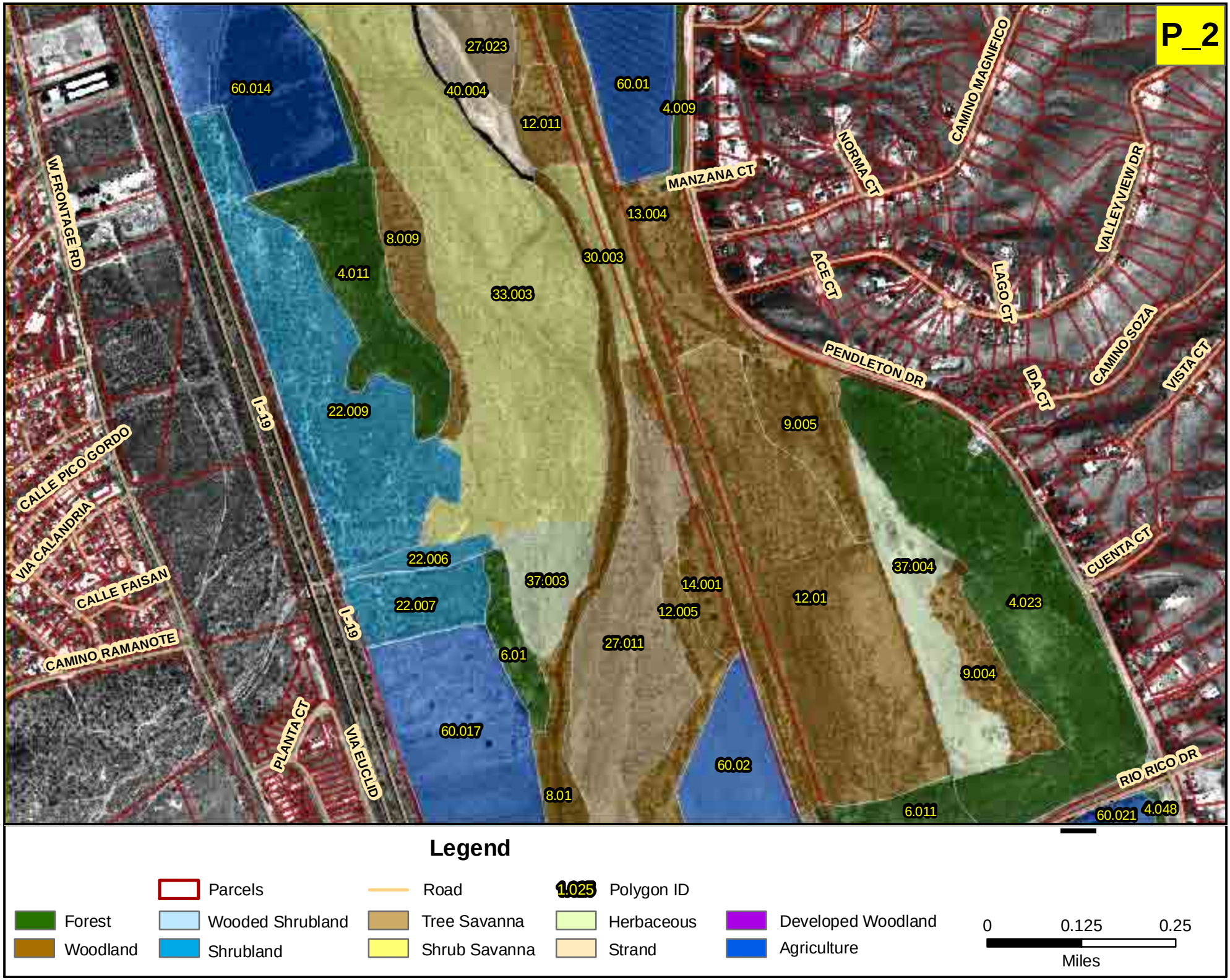
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MANZANA CT
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W FRONTAGE RD
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8.009
30.003
4.011
33.003
ACE CT
LAGO CT
CAMINO SOZA
PENDLETON DR
IDA CT
VISTA CT
I-19
22.009
9.005
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VIA CALANDRIA
CUENTA CT
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37.004
37.003
14.001
CALLE FAISAN
12.01
4.023
22.007
12.005
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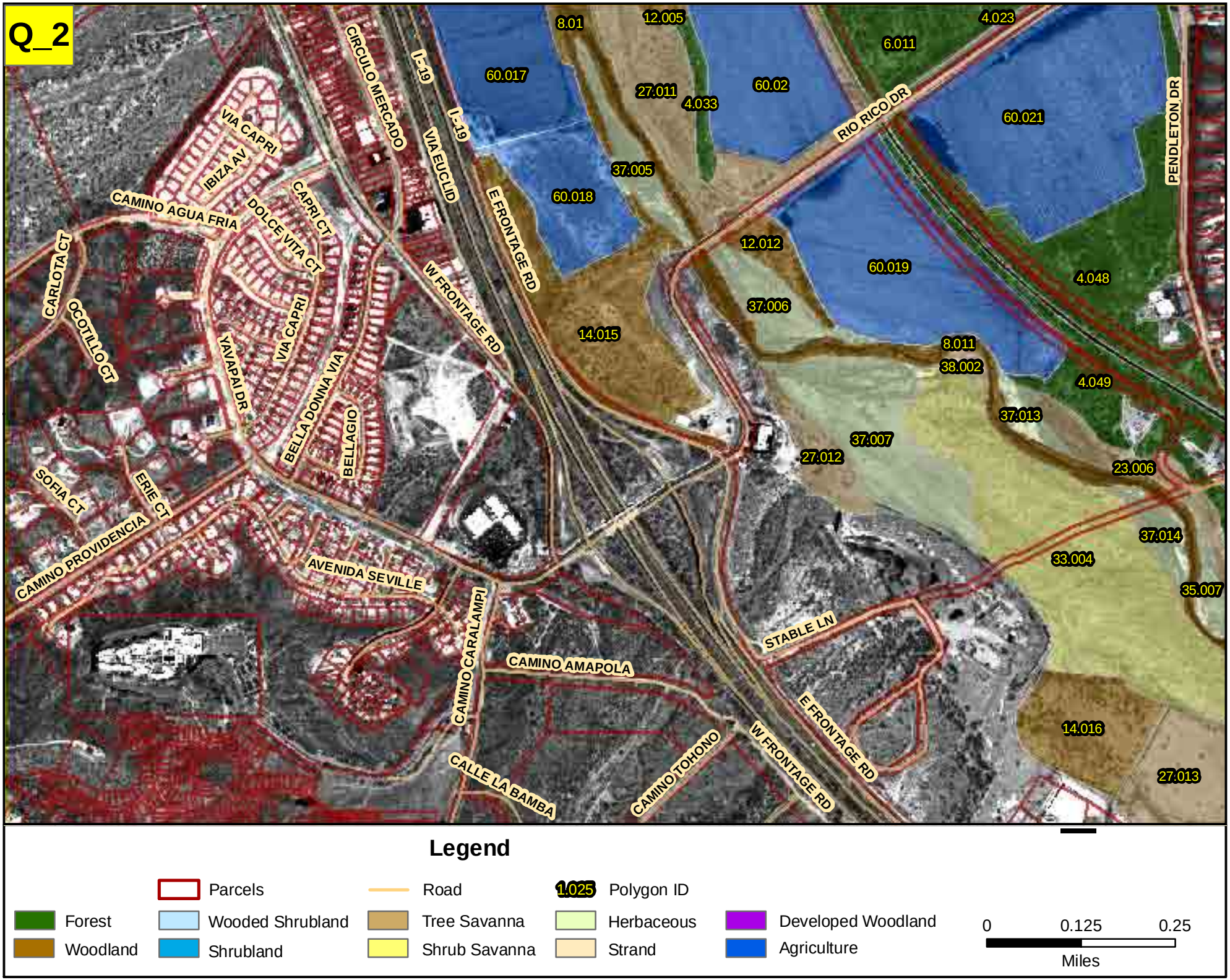
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27.012
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37.014
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35.007
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27.013
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I-19
VIA EUCLID
RIO RICO DR
PENDLETON DR
VIA CAPRI
IBIZA AV
CAMINO AGUA FRIA
DOLCE VITA CT
CAPRI CT
E FRONTAGE RD
W FRONTAGE RD
CARLOTA CT
OCOTILLO CT
YAVAPAI DR
BELLA DONNA VIA
BELLAGIO
SOFIA CT
ERIE CT
CAMINO PROVIDENCIA
AVENIDA SEVILLE
CAMINO CARALAMPI
CAMINO AMAPOLA
STABLE LN
CALLE LA BAMBA
CAMINO TOHONO
Legend
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Road
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Wooded Shrubland
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Strand
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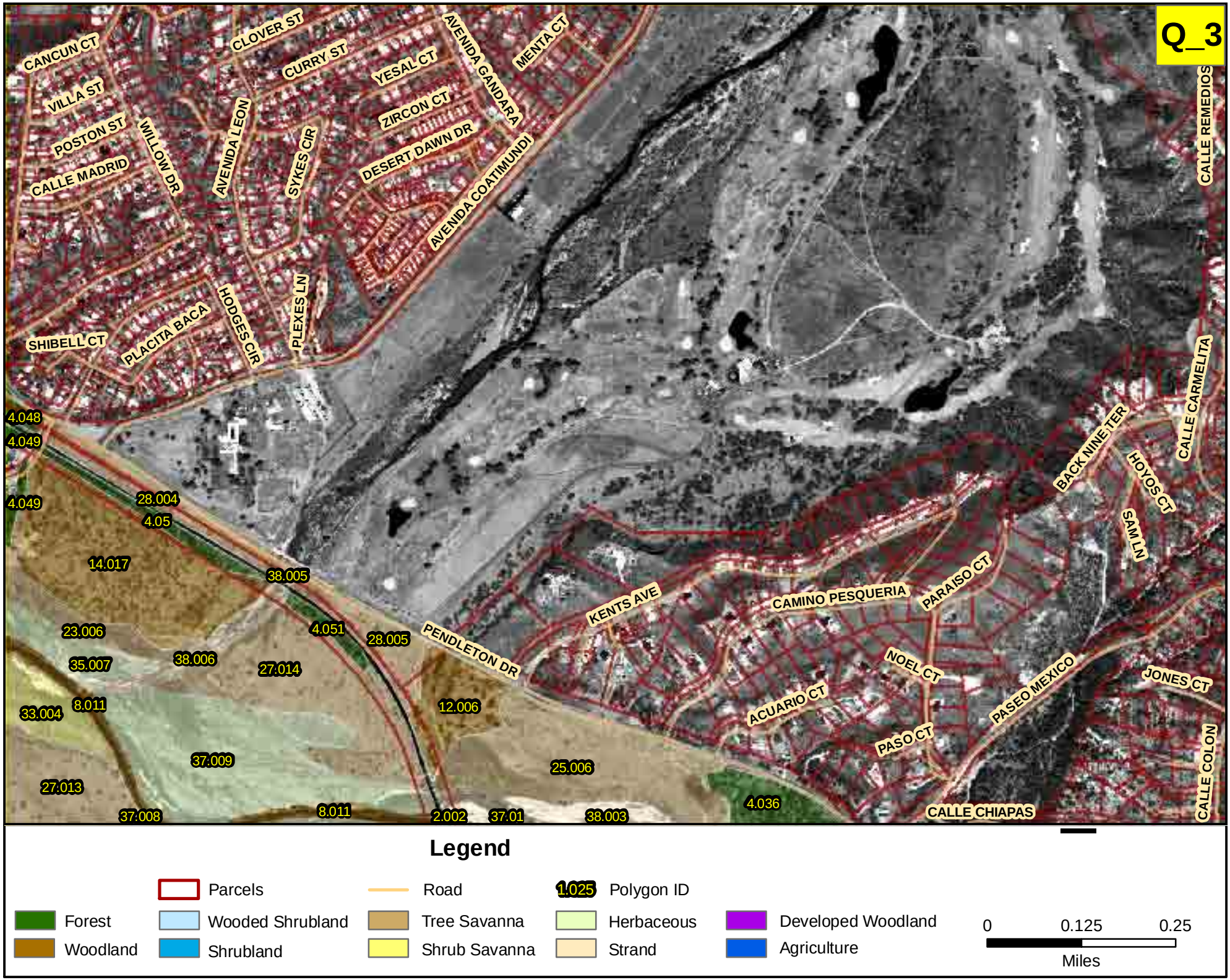


## Legend

- Parcels
- Road
- 1.025 Polygon ID
- Forest
- Woodland
- Wooded Shrubland
- Shrubland
- Tree Savanna
- Shrub Savanna
- Herbaceous
- Strand
- Developed Woodland
- Agriculture

0 0.125 0.25
Miles

## Legend

- Parcels
- Road
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- Tree Savanna
- Herbaceous
- Developed Woodland
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- Shrubland
- Shrub Savanna
- Strand
- Agriculture

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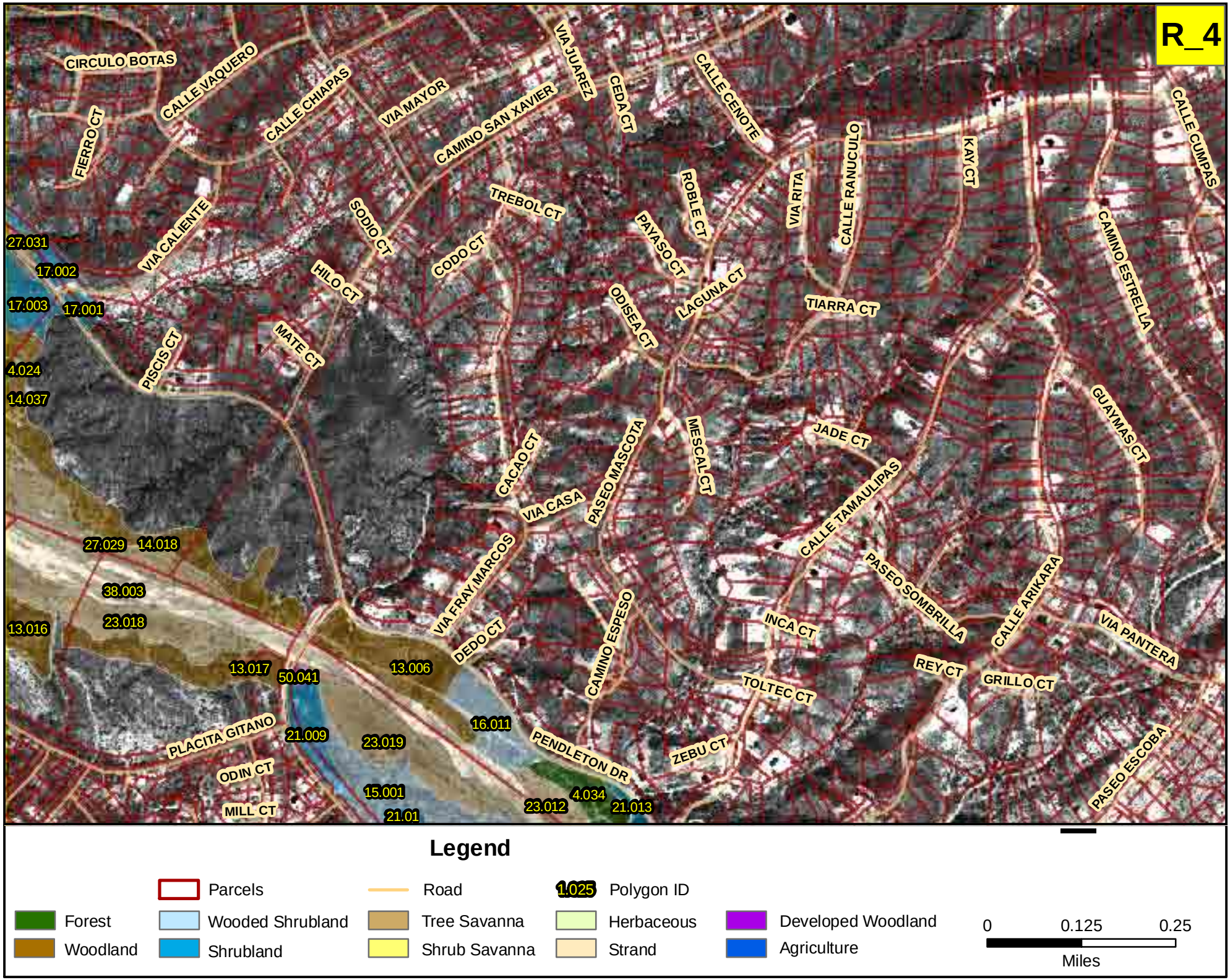
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CALLE CHIAPAS
VIA MAYOR
CAMINO SAN XAVIER
VIA JUAREZ
CEDA CT
CALLE CENOTE
CALLE CUMPAS
FIERRO CT
KAY CT
CALLE RANUCULO
VIA RITA
ROBLE CT
TREBOL CT
SODIO CT
PAYASO CT
CAMINO ESTRELLA
VIA CALIENTE
CODO CT
HILO CT
LAGUNA CT
ODISEA CT
TIARRA CT
MATE CT
PISCIS CT
GUAYMAS CT
JADE CT
MESCAL CT
PASEO MASCOTA
CACAO CT
VIA CASA
CALLE TAMAULIPAS
PASEO SOMBRILLA
CALLE ARIKARA
VIA FRAY MARCOS
DEDO CT
CAMINO ESPESO
INCA CT
VIA PANTERA
REY CT
GRILLO CT
TOLTEC CT
PLACITA GITANO
PENDLETON DR
ZEBU CT
ODIN CT
MILL CT
PASEO ESCOBA
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17.003
17.001
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14.037
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14.018
38.003
23.018
13.016
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21.01
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Legend
Parcels
Road
1.025 Polygon ID
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Wooded Shrubland
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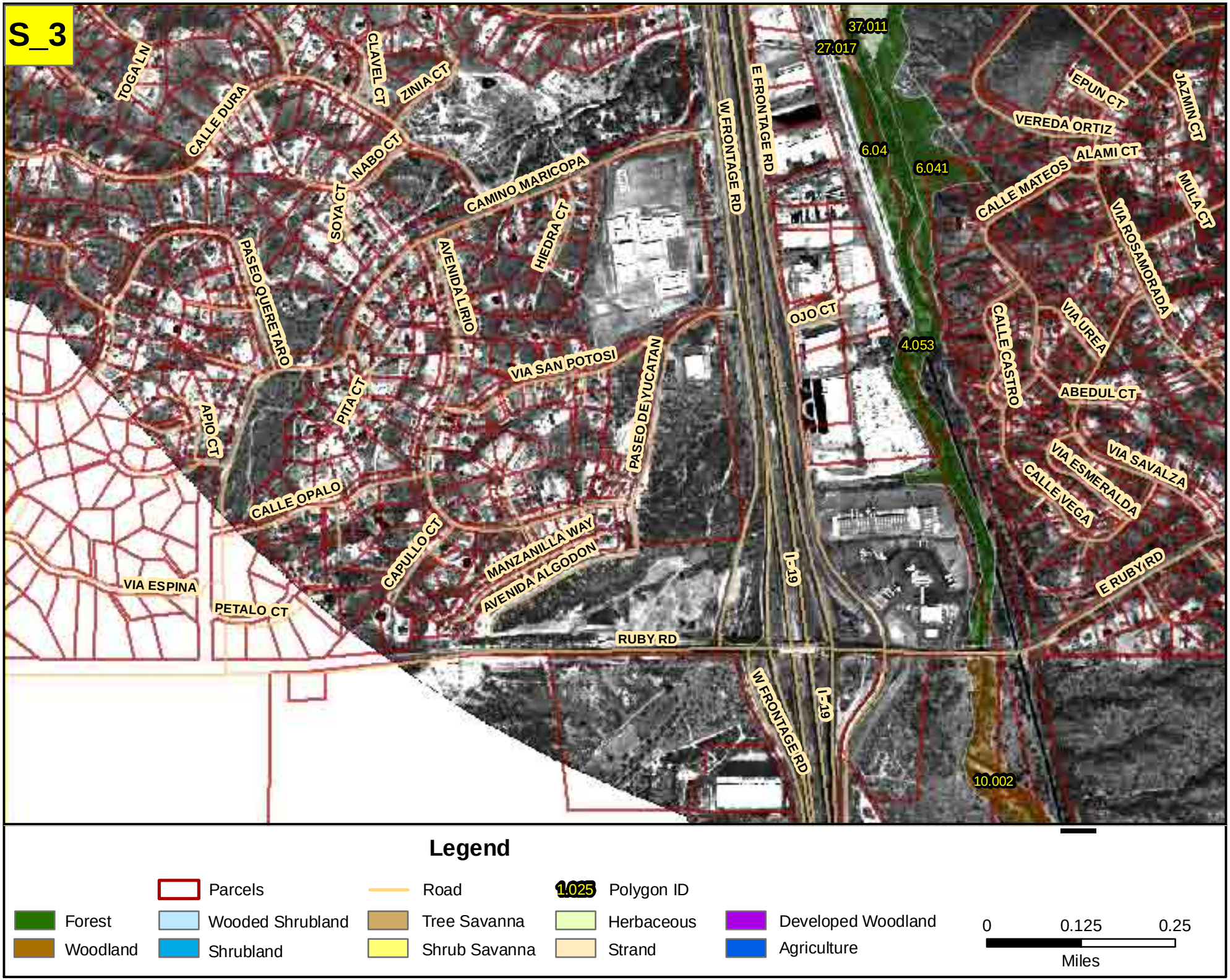
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CLAVEL CT
ZINIA CT
NABO CT
SOYA CT
CAMINO MARICOPA
HIEDRA CT
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AVENIDA LIRIO
VIA SAN POTOSI
PASEO DE YUCATAN
PITA CT
APIO CT
CALLE OPALO
CAPULLO CT
MANZANILLA WAY
AVENIDA ALGODON
VIA ESPINA
PETALO CT
RUBY RD
W FRONTAGE RD
E FRONTAGE RD
I-19
OJO CT
37.011
27.017
6.04
6.041
4.053
10.002
EPUN CT
JAZMIN CT
VEREDA ORTIZ
ALAMI CT
CALLE MATEOS
MULA CT
VIA ROSAMORADA
VIA UREA
CALLE CASTRO
ABEDUL CT
VIA SAVALZA
VIA ESMERALDA
CALLE VEGA
E RUBY RD
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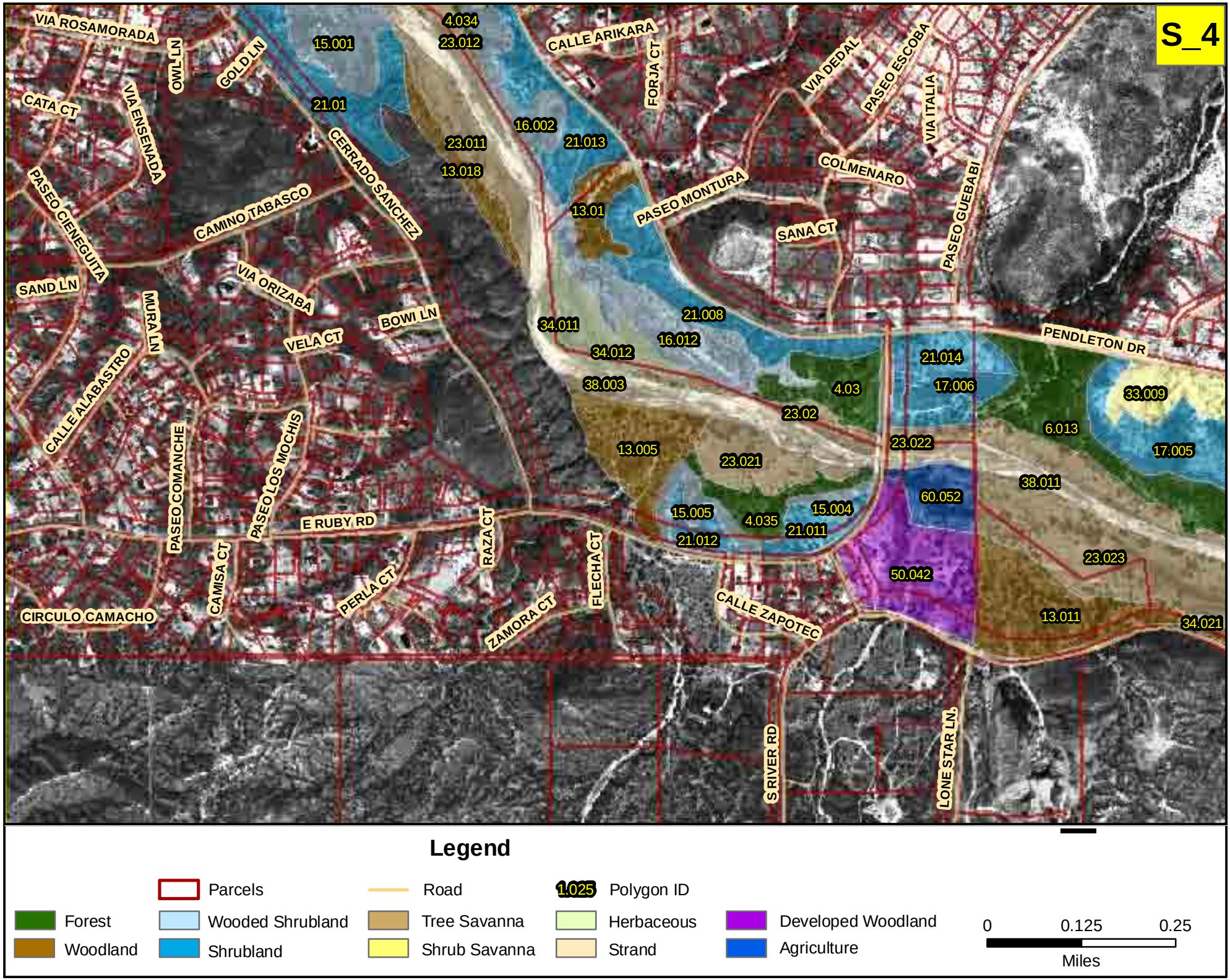


## Legend

- Parcels
- Road
- 1.025 Polygon ID
- Forest
- Wooded Shrubland
- Tree Savanna
- Herbaceous
- Developed Woodland
- Woodland
- Shrubland
- Shrub Savanna
- Strand
- Agriculture

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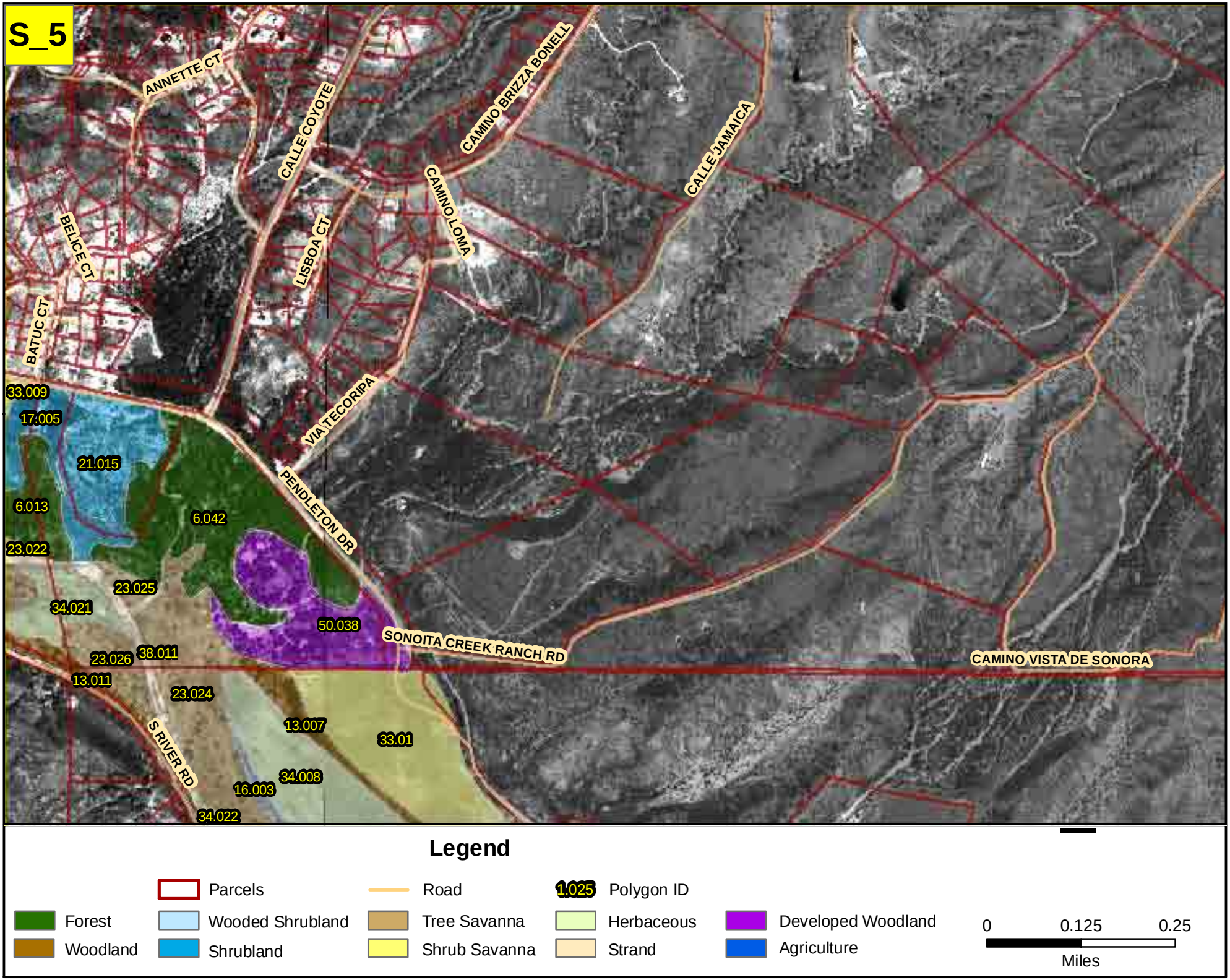
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CAMINO BRIZZA BONELL
CALLE JAMAICA
CAMINO LOMA
LISBOA CT
BELICE CT
BATUC CT
VIA TECORIPA
PENDLETON DR
SONOITA CREEK RANCH RD
CAMINO VISTA DE SONORA
S RIVER RD
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17.005
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6.013
6.042
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38.011
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23.024
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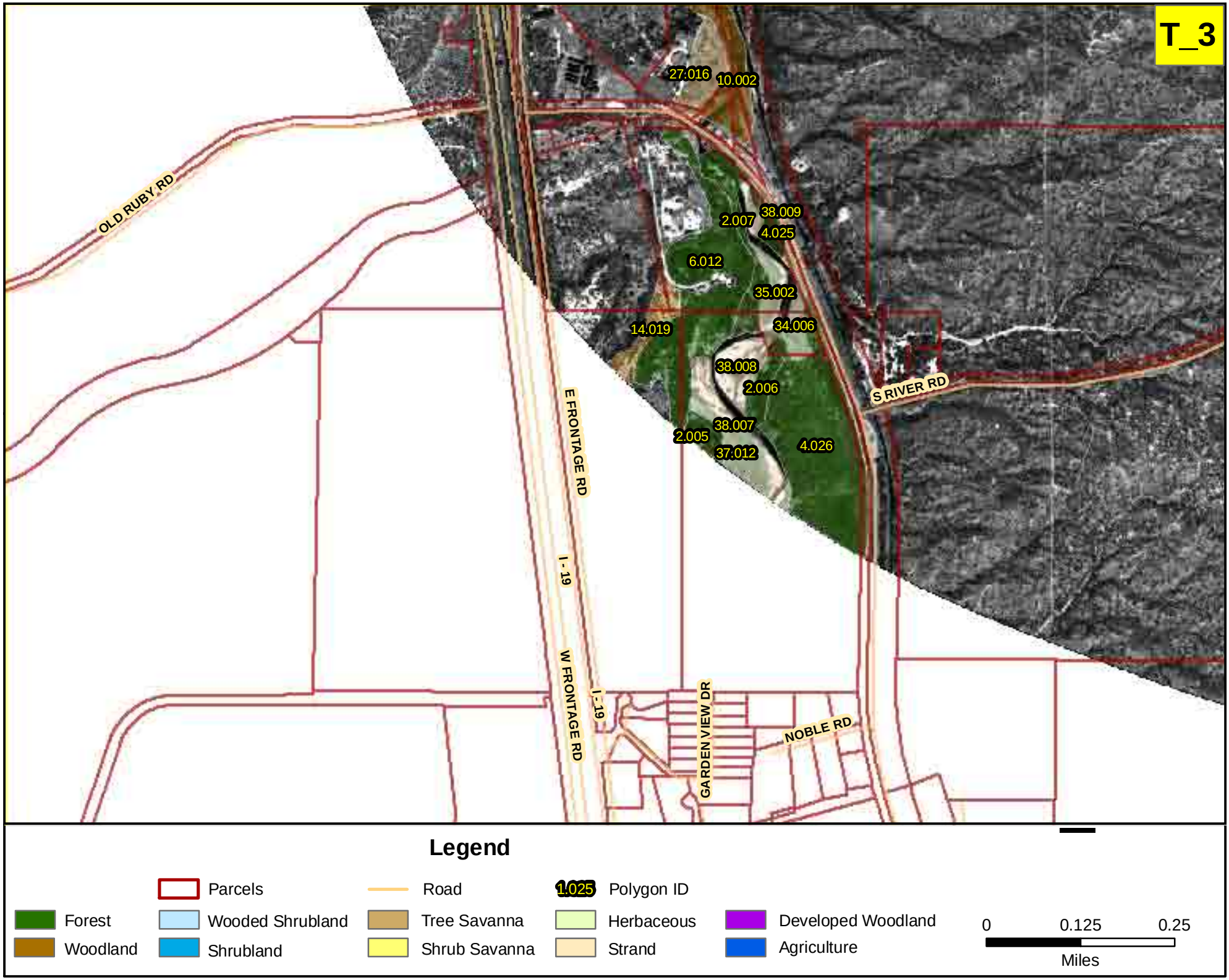
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38.008
2.006
S RIVER RD
E FRONTAGE RD
38.007
2.005
37.012
4.026
I - 19
W FRONTAGE RD
I - 19
GARDEN VIEW DR
NOBLE RD
Legend
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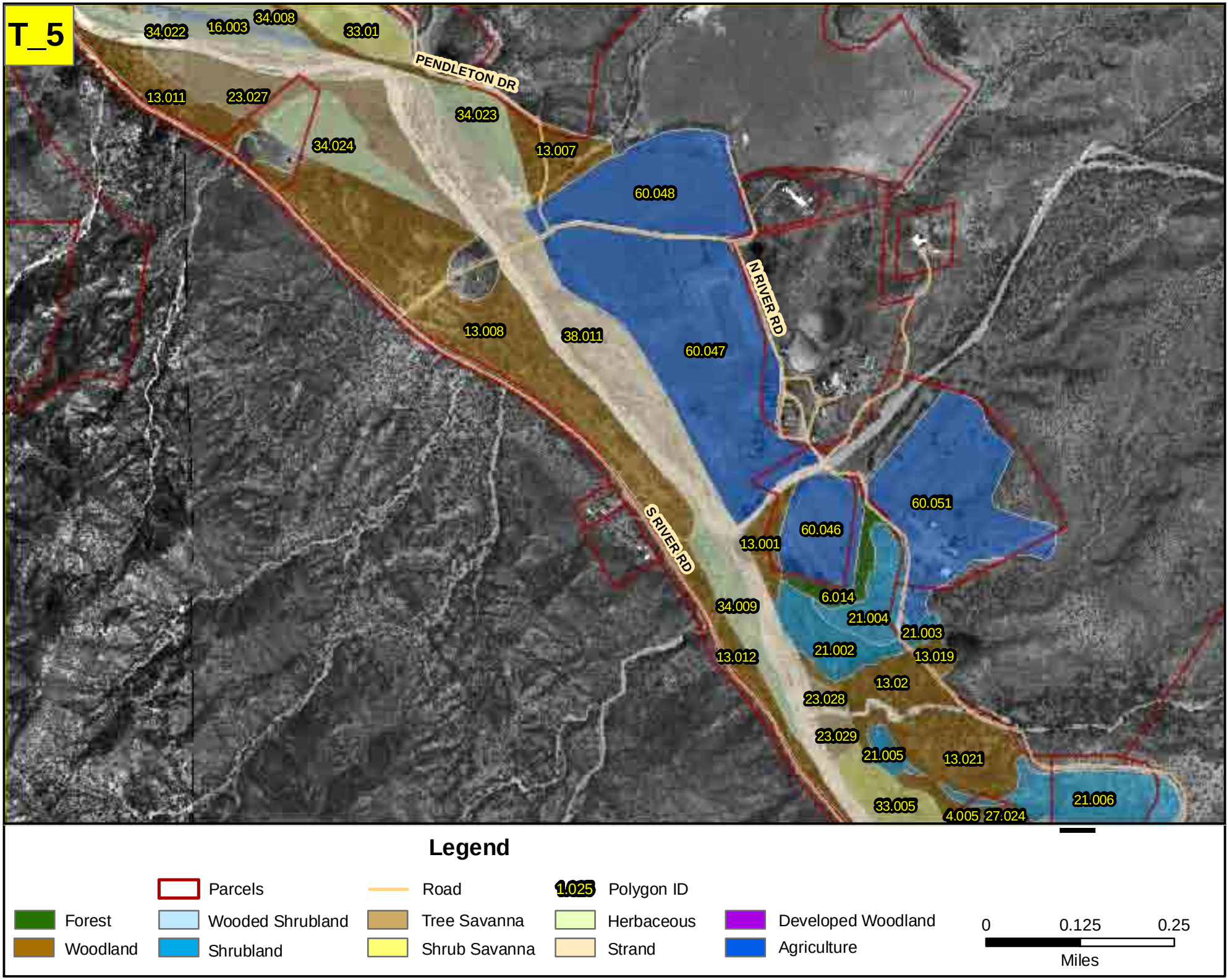
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38.011
60.047
60.051
60.046
S RIVER RD
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6.014
34.009
21.004
21.003
21.002
13.019
13.012
13.02
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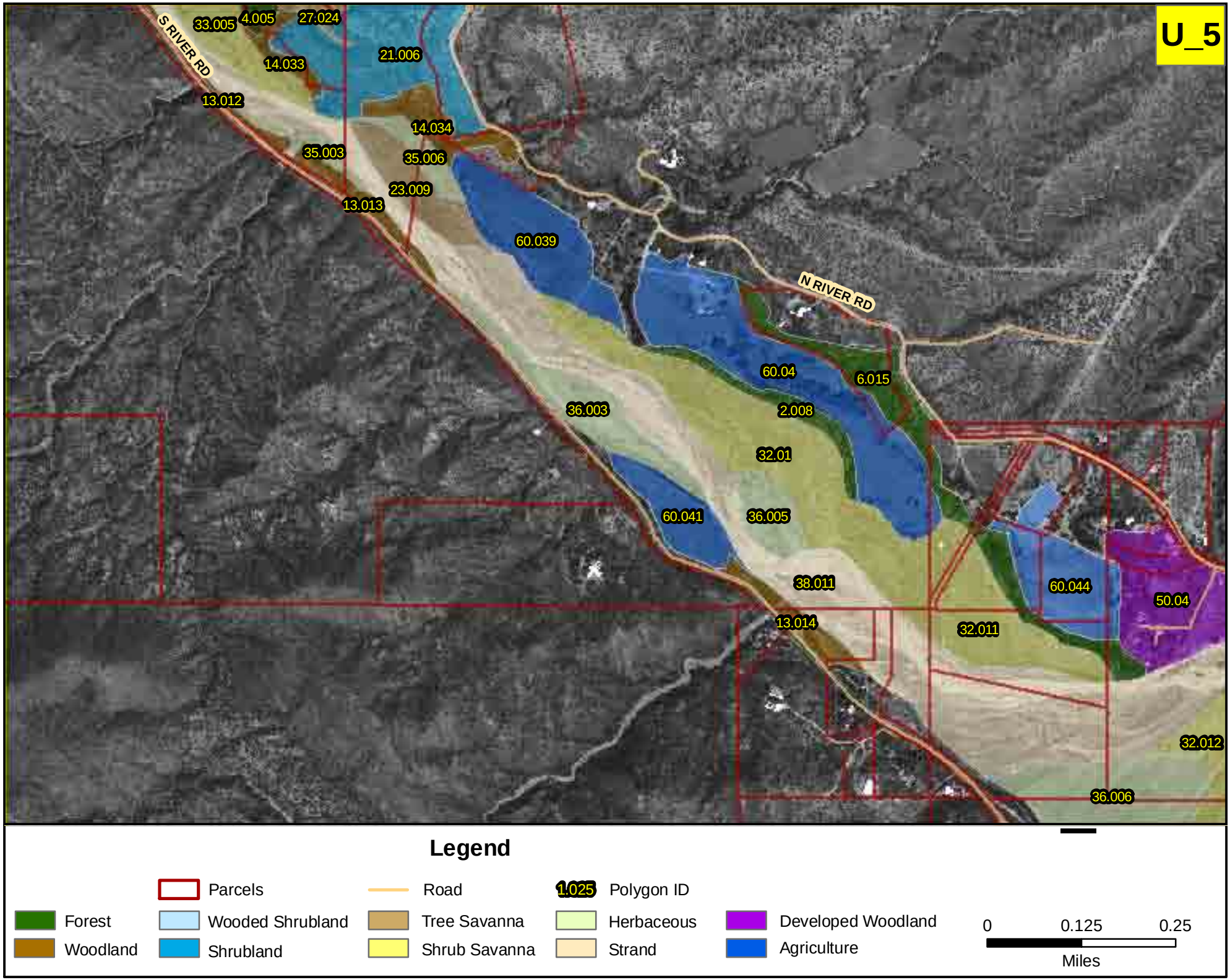
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N RIVER RD
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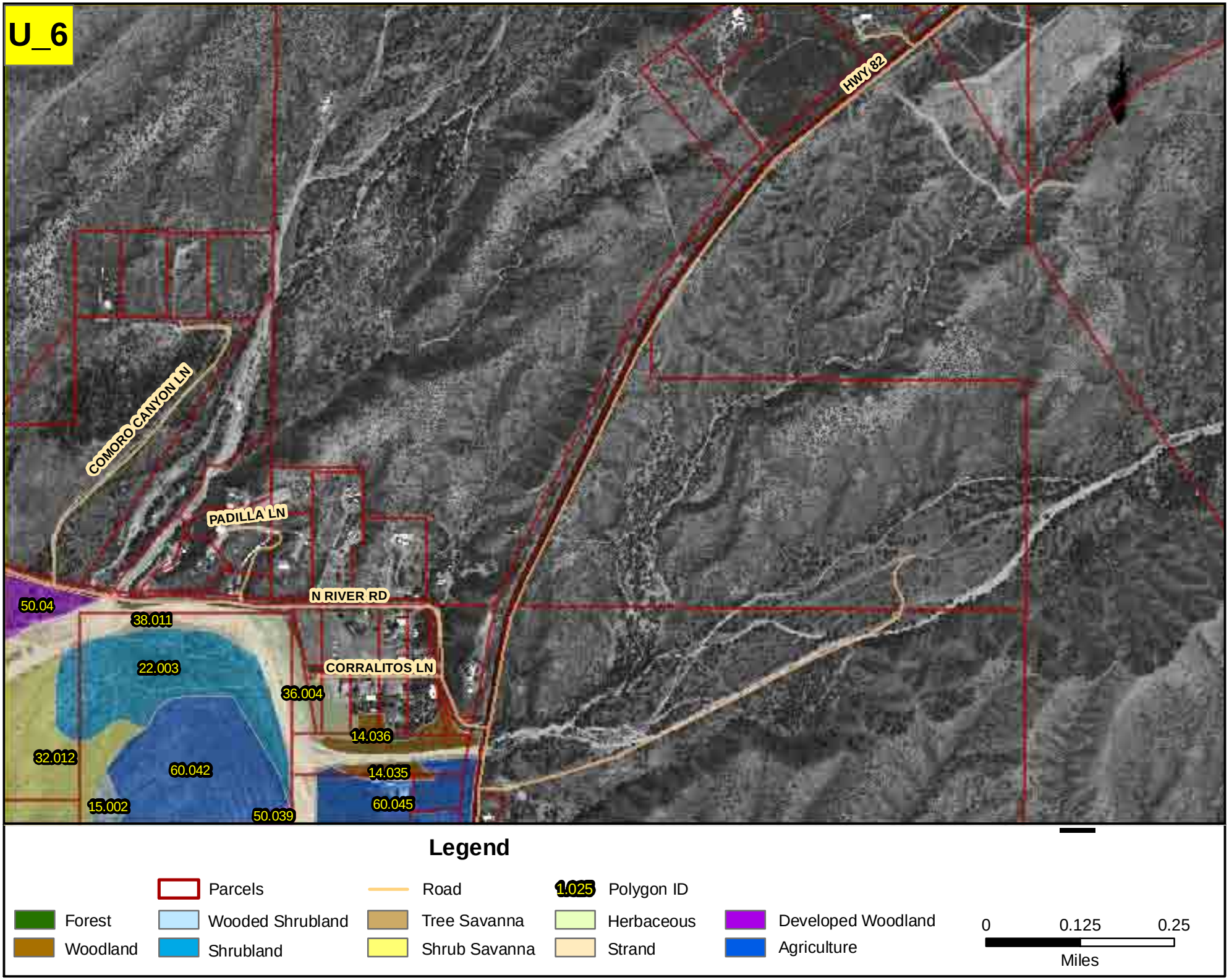
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PADILLA LN
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CORRALITOS LN
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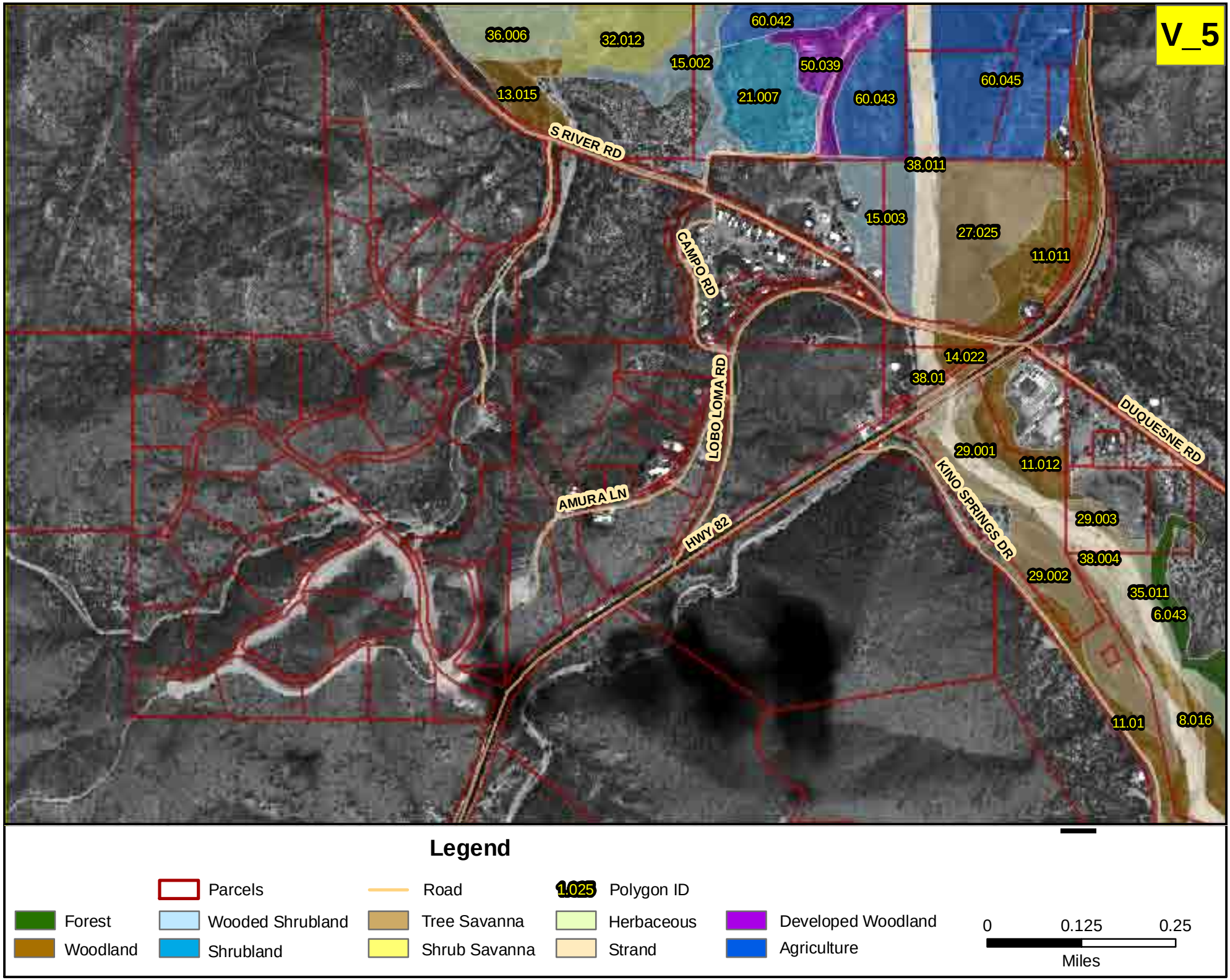
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CAMPO RD
14.022
38.01
LOBO LOMA RD
DUQUESNE RD
29.001
11.012
KINO SPRINGS DR
AMURA LN
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HWY 82
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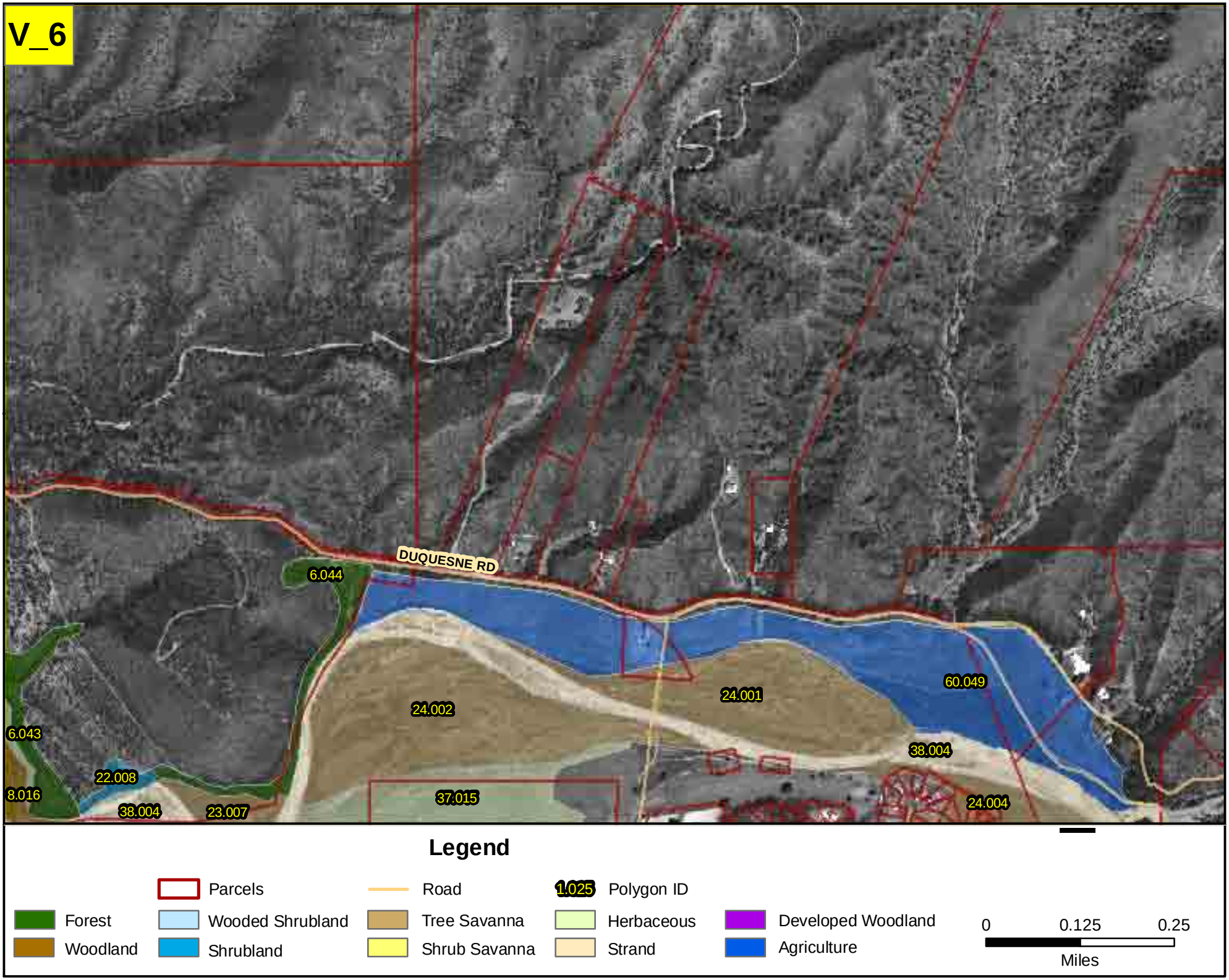
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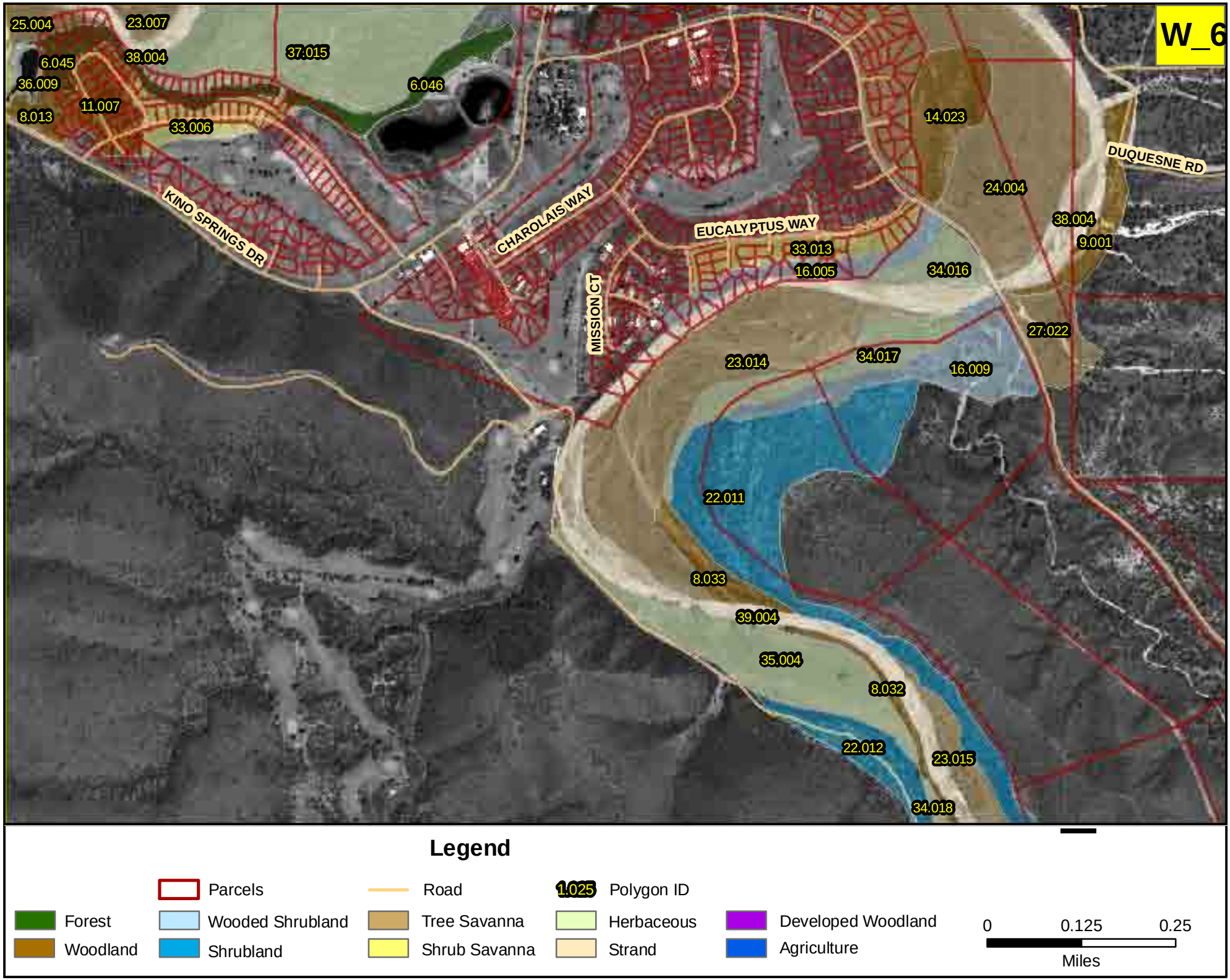
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24.004
KINO SPRINGS DR
CHAROLAIS WAY
EUCALYPTUS WAY
38.004
9.001
33.013
16.005
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MISSION CT
27.022
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Parcels
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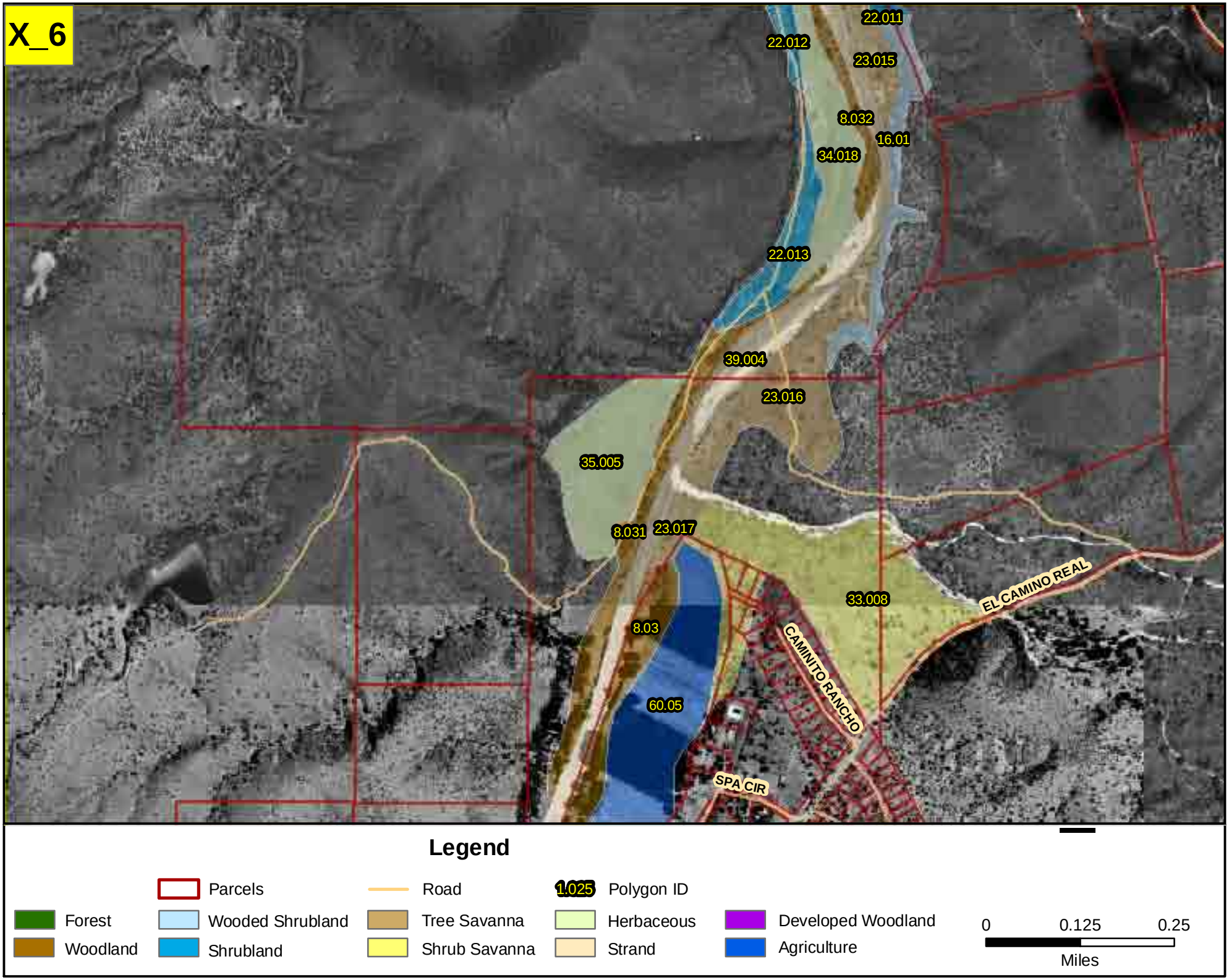
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CAMINITO RANCHO
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SPA CIR
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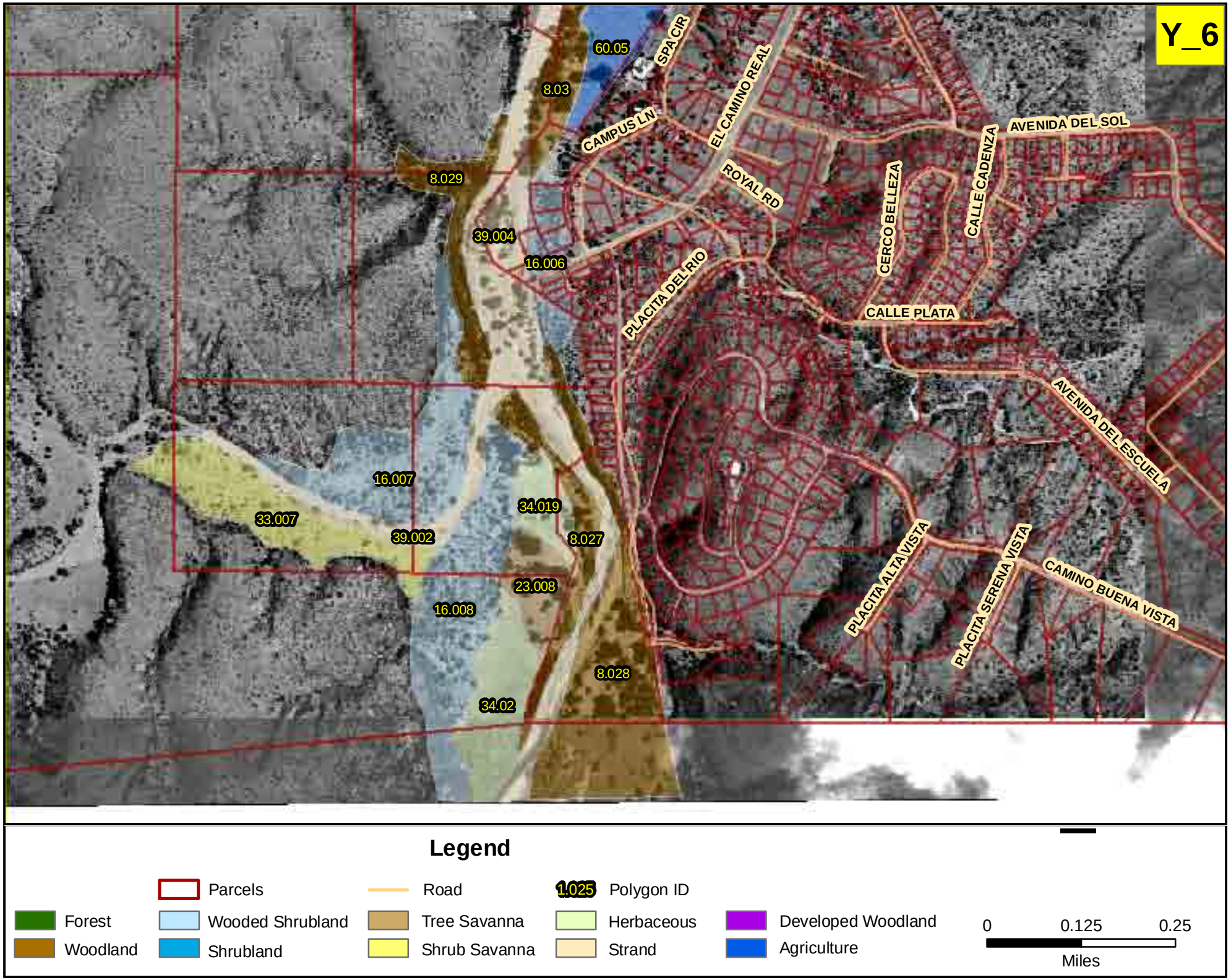
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PLACITA DEL RIO
CALLE PLATA
AVENIDA DEL ESCUELA
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PLACITA ALTA VISTA
PLACITA SERENA VISTA
CAMINO BUENA VISTA
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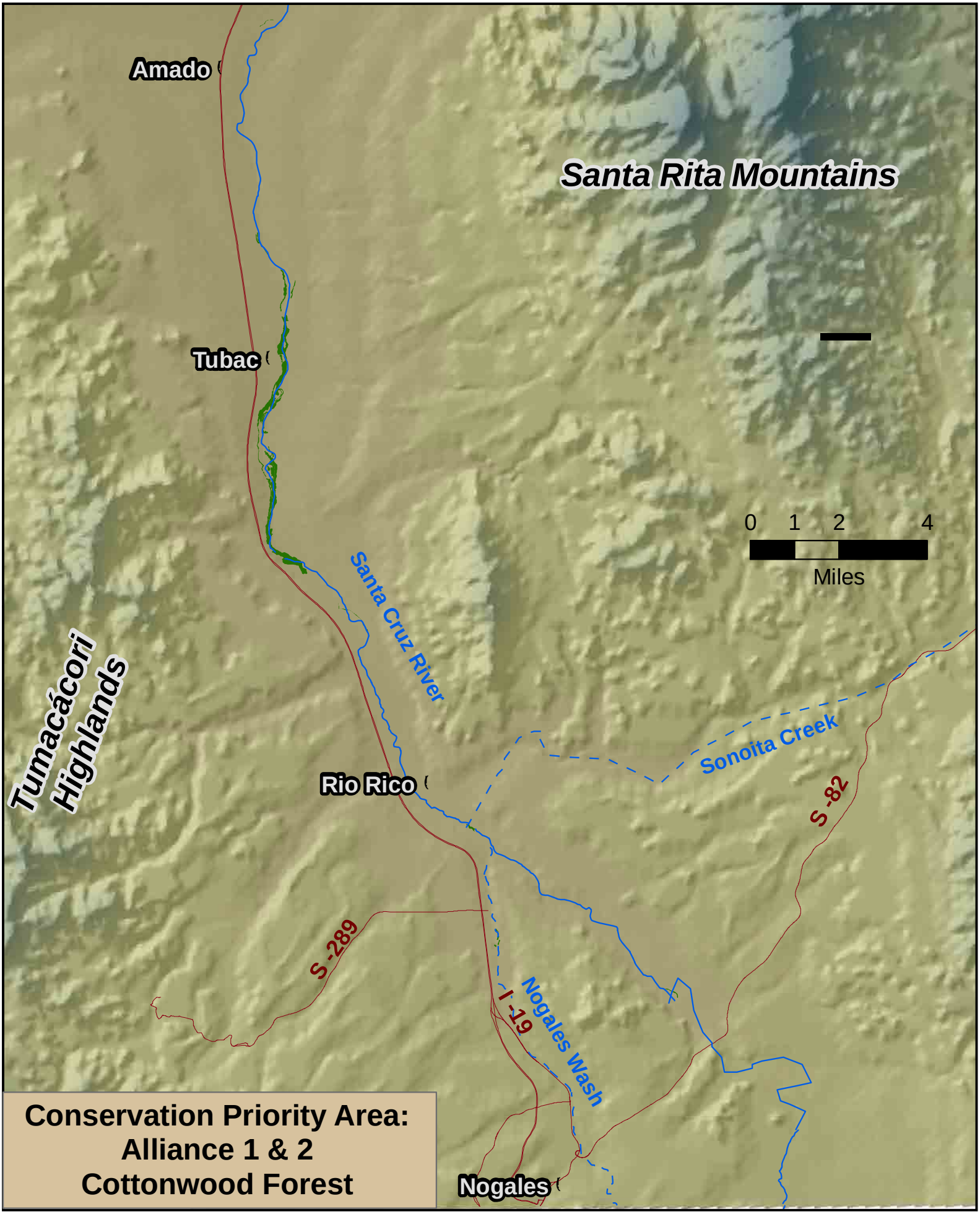
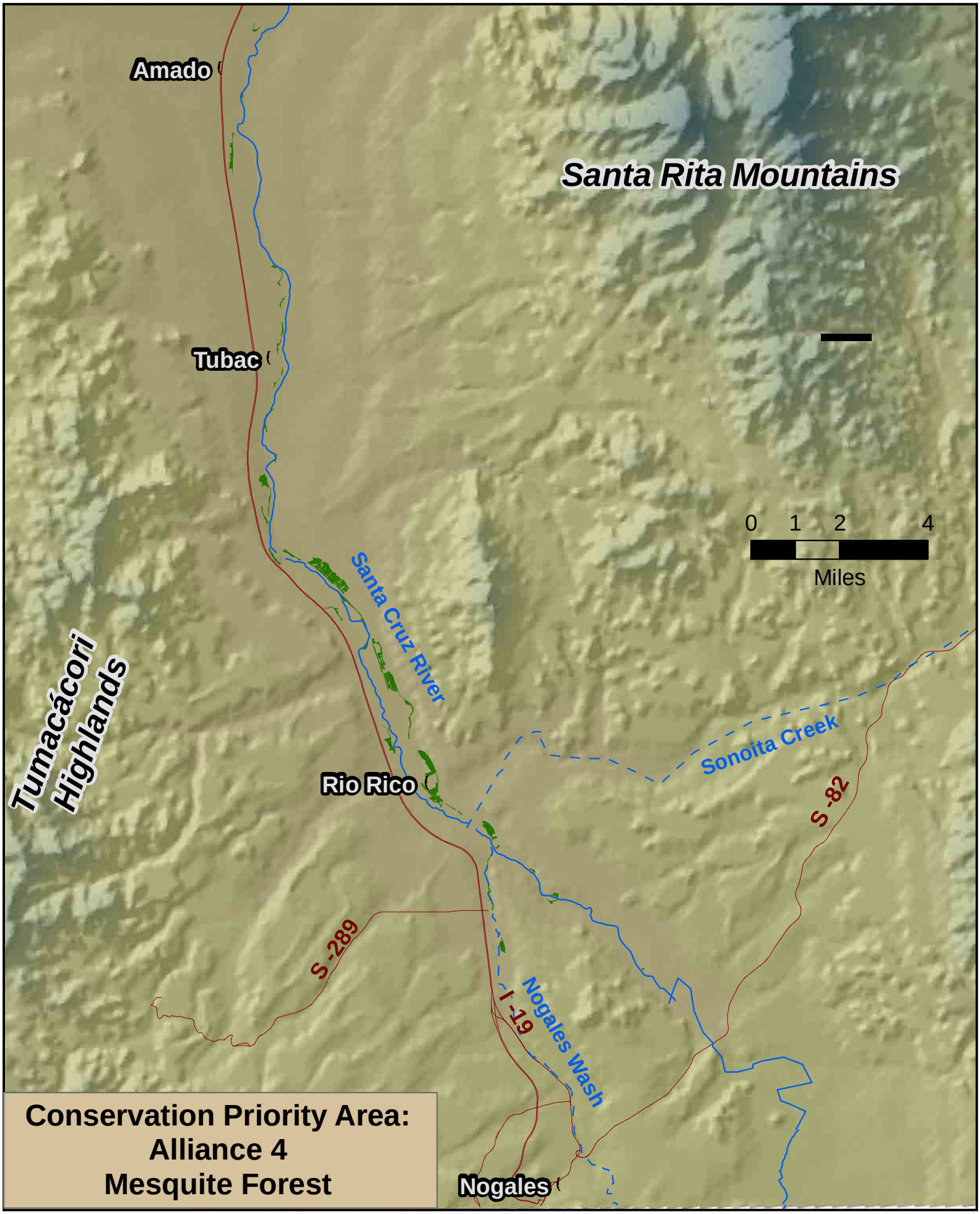
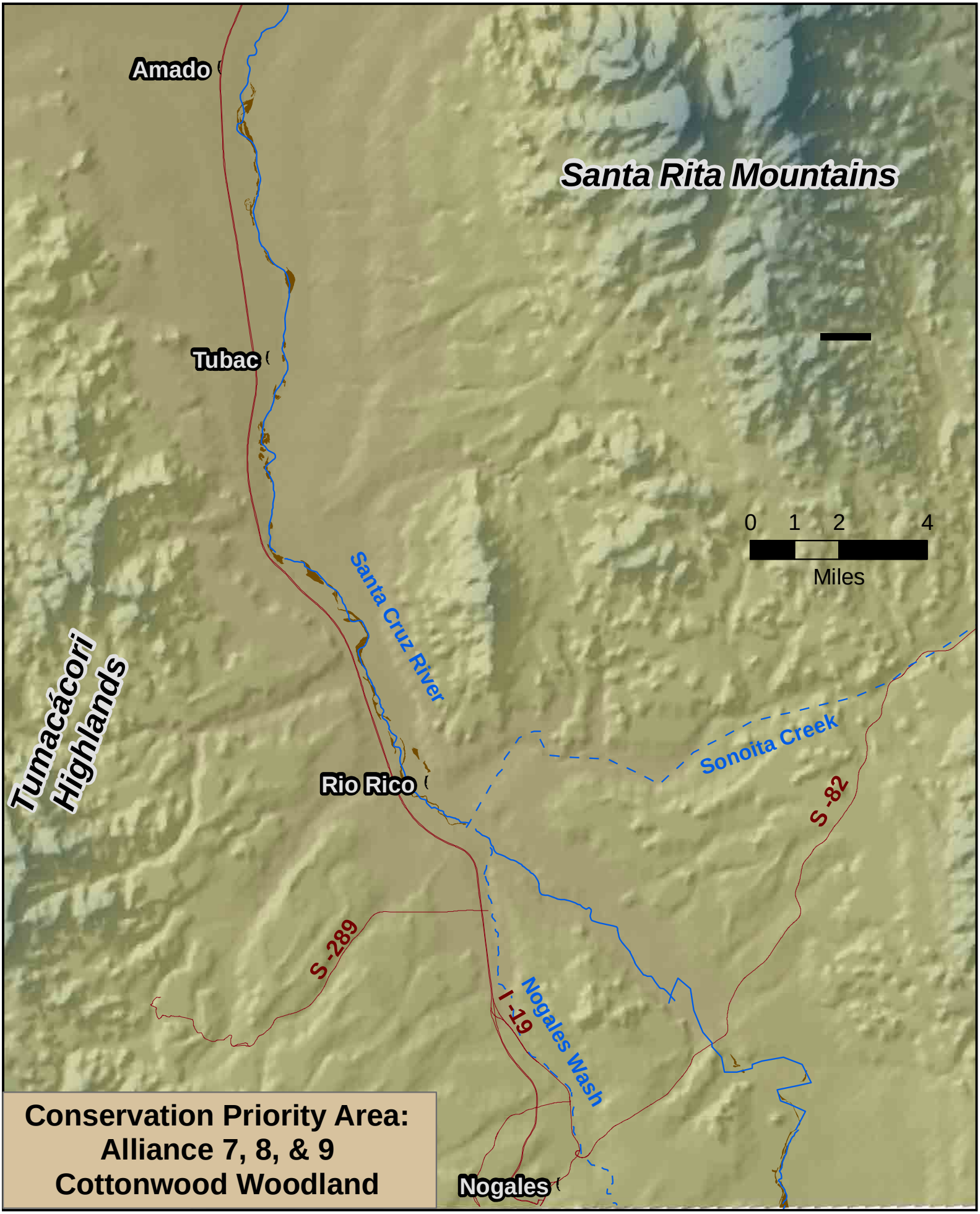


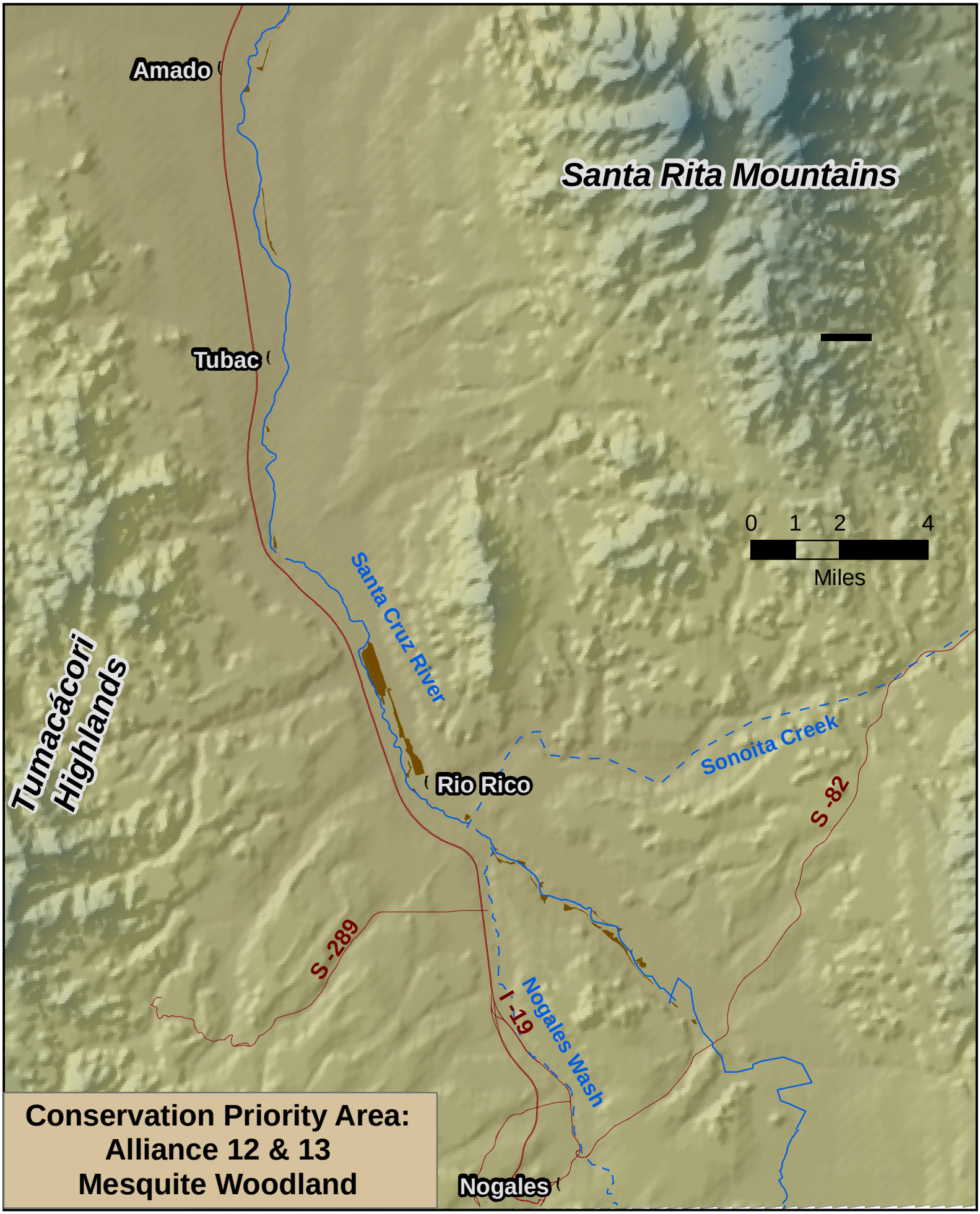

**Conservation Priority Area:**
**Alliance 1 & 2**
**Cottonwood Forest**




**Conservation Priority Area:**
**Alliance 4**
**Mesquite Forest**




**Conservation Priority Area:**
**Alliance 7, 8, & 9**
**Cottonwood Woodland**




**Conservation Priority Area:**
**Alliance 12 & 13**
**Mesquite Woodland**

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