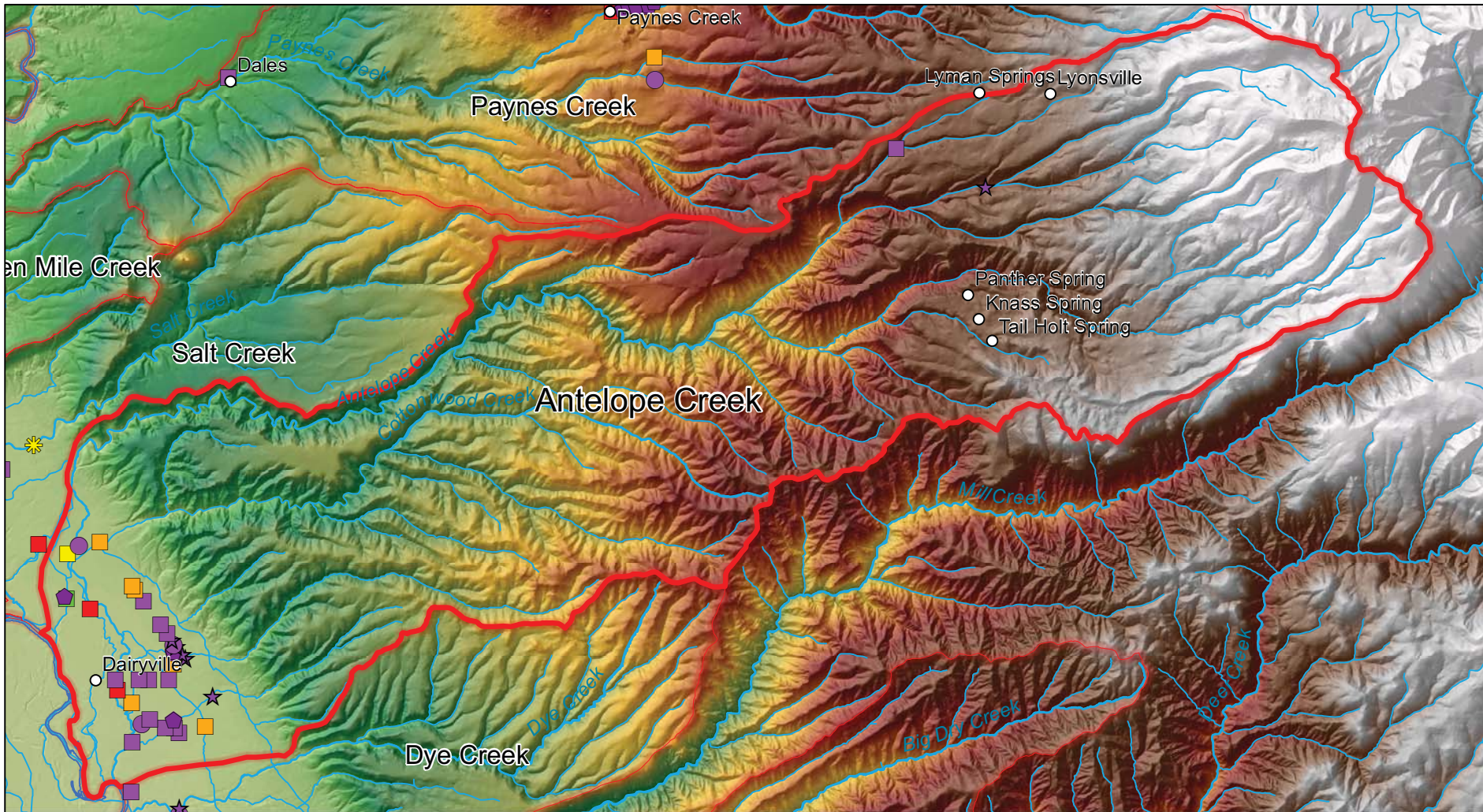


Maps by Watersheds

Antelope Watershed

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Tehama East Watershed Assessment

Bridges, Culverts, Pipes,
and Slabs
Antelope Creek



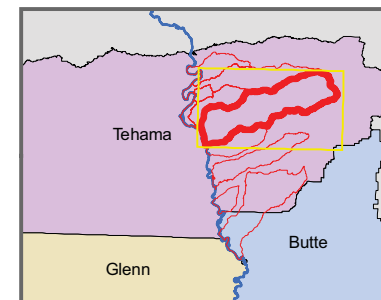
Tehama County Resource Conservation District
(c) 2010

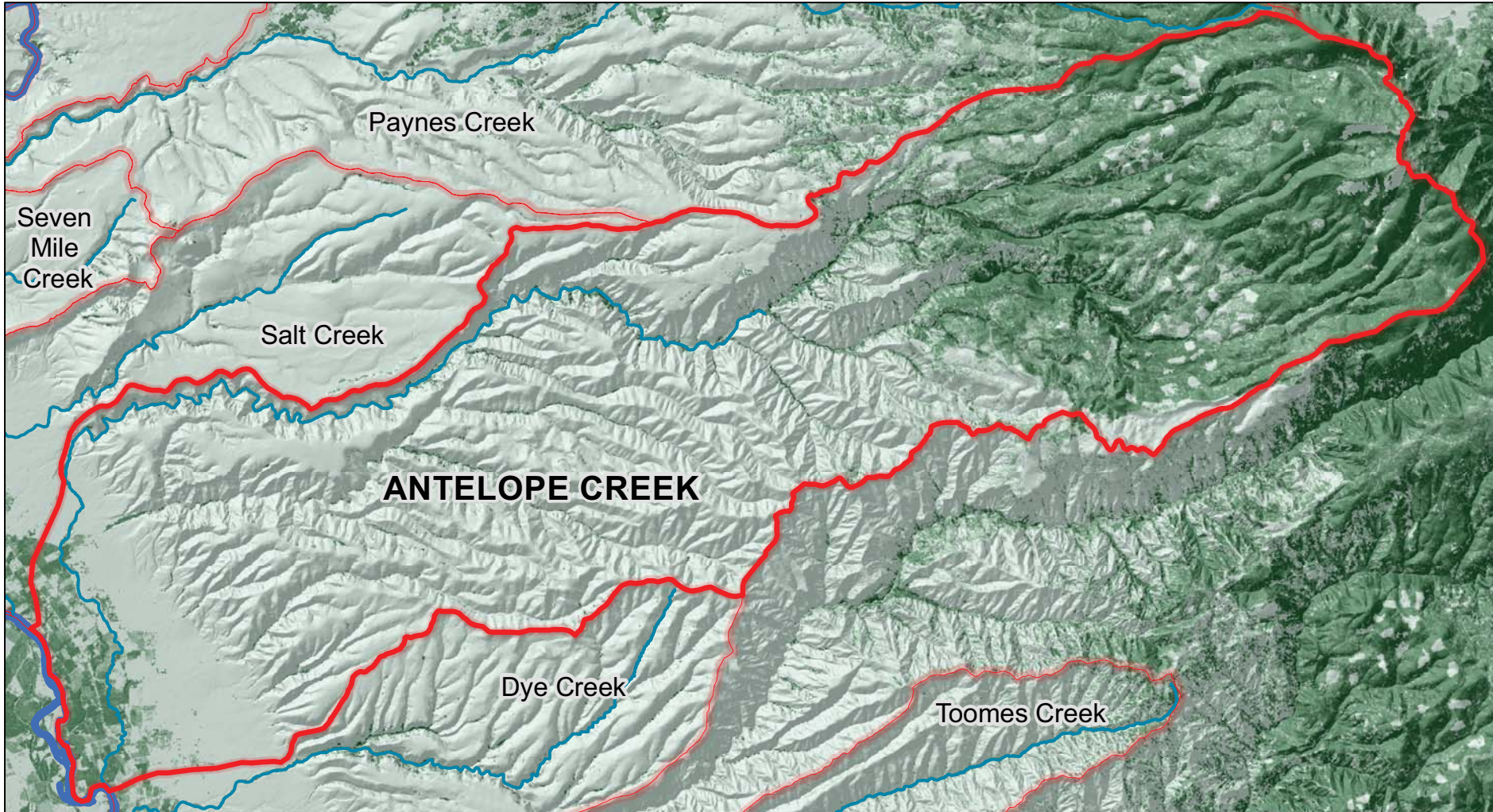


KEY

- | | |
|----------------------------|----------------------------|
| ■ Bridge-Abandoned | ◆ Culvert-Green |
| ■ Bridge-Green | ◀ Culvert-Orange/Green |
| ■ Bridge-Orange | ◆ Culvert-Purple |
| ■ Bridge-Purple | ◆ Culvert-Yellow |
| ▶ Bridge-Purple/Green | ○ Pipe-Purple (Non County) |
| ▶ Bridge-Purple/Orange | ● Pipe-Abandoned |
| ■ Bridge-Red | ● Pipe-Purple |
| ■ Bridge-Yellow | ★ Slab-Abandoned |
| ★ Bridge-Yellow (One Lane) | ★ Slab-Purple |

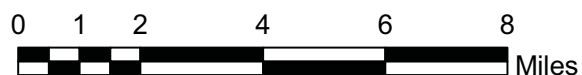
Watershed Boundary





Tehama East Watershed Assessment

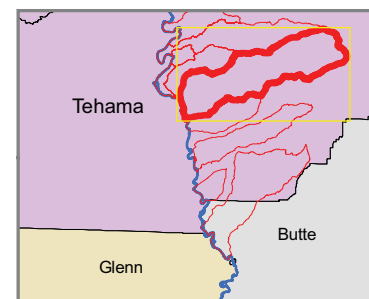
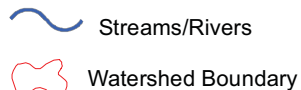
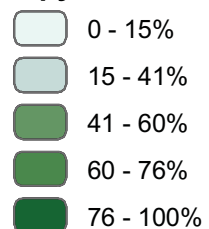
CANOPY COVER
Antelope Creek



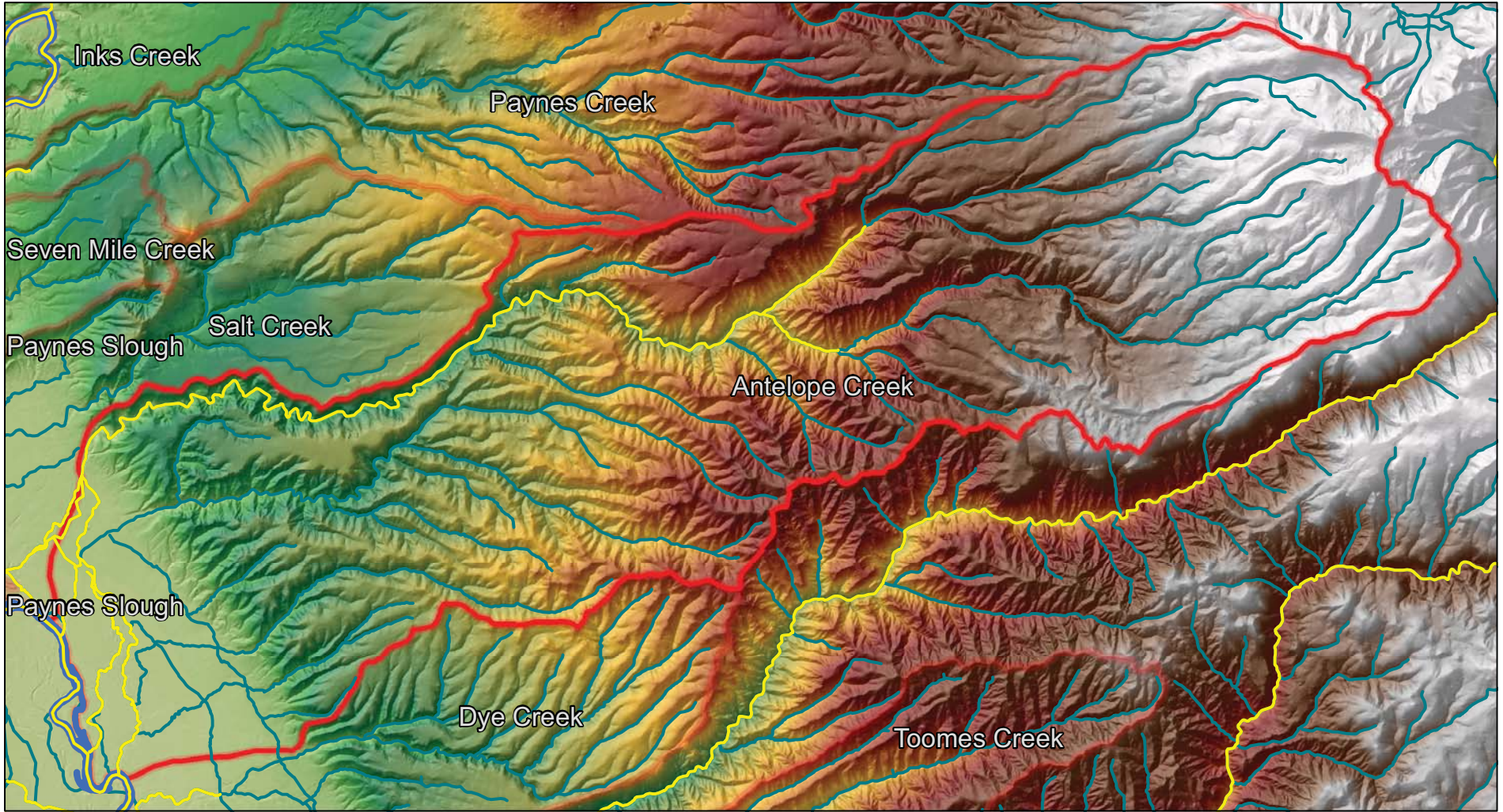
(c) 2010

KEY

Canopy Cover Percent



<http://seamless.usgs.gov/products/nlcd01.php>

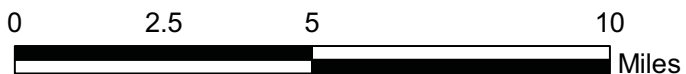


Tehama East Watershed Assessment

Critical Habitat - Spring-Run Chinook
Antelope Creek

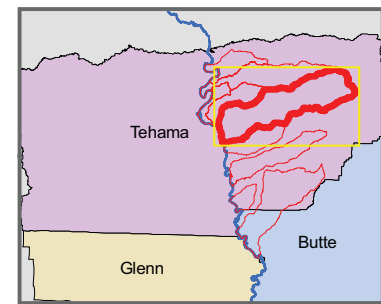


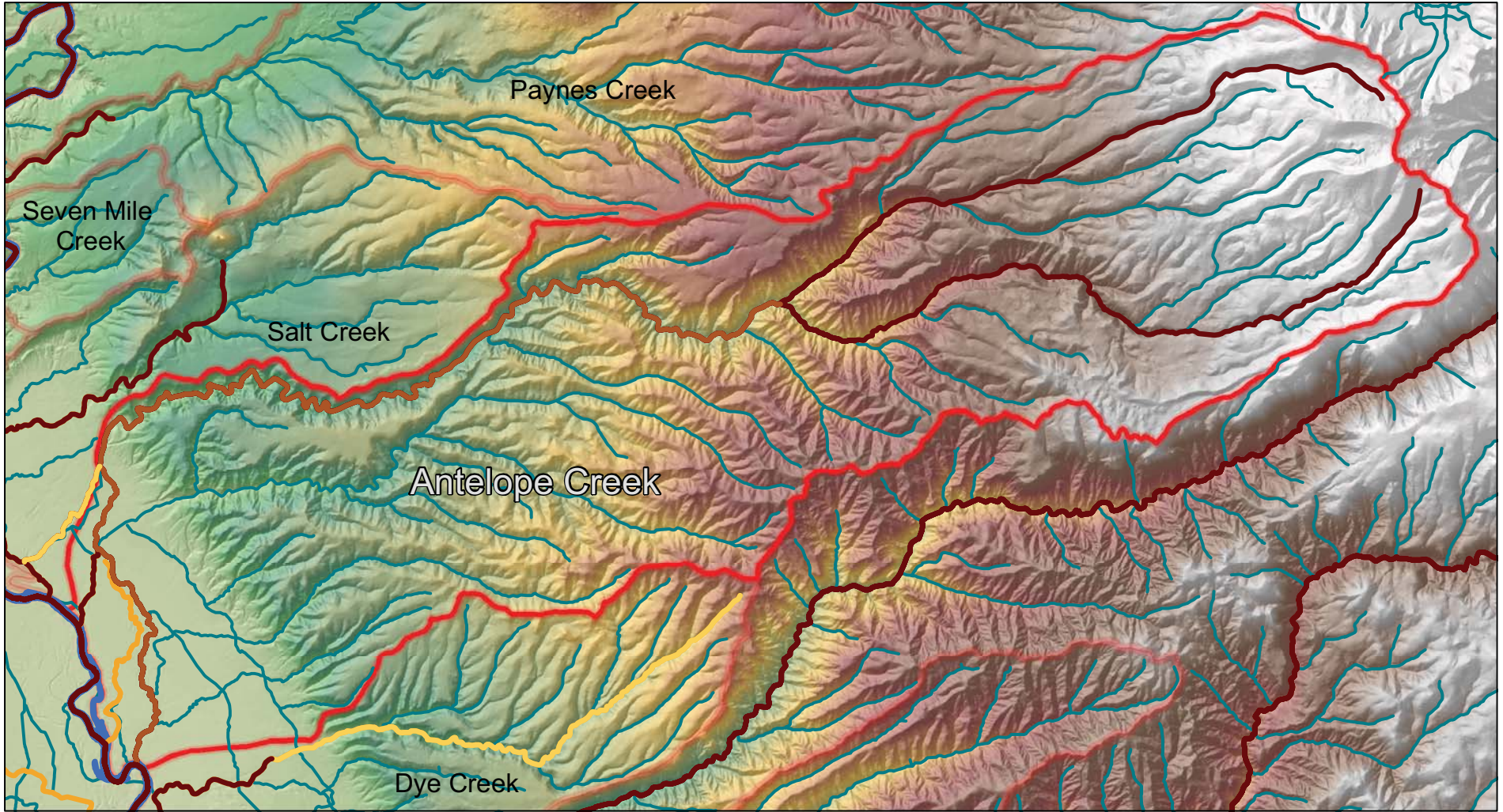
Tehama County Resource Conservation District
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KEY

-  Critical Habitat - Spring-Run Chinook
-  Springs/Rivers
-  Urban Areas
-  Watershed Boundary





Tehama East Watershed Assessment




Chinook Surveys By Year
Antelope Creek



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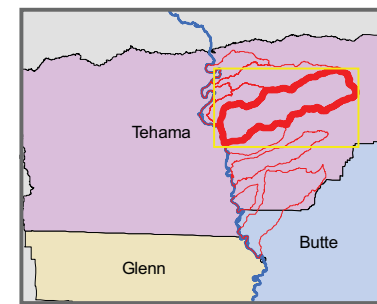


KEY

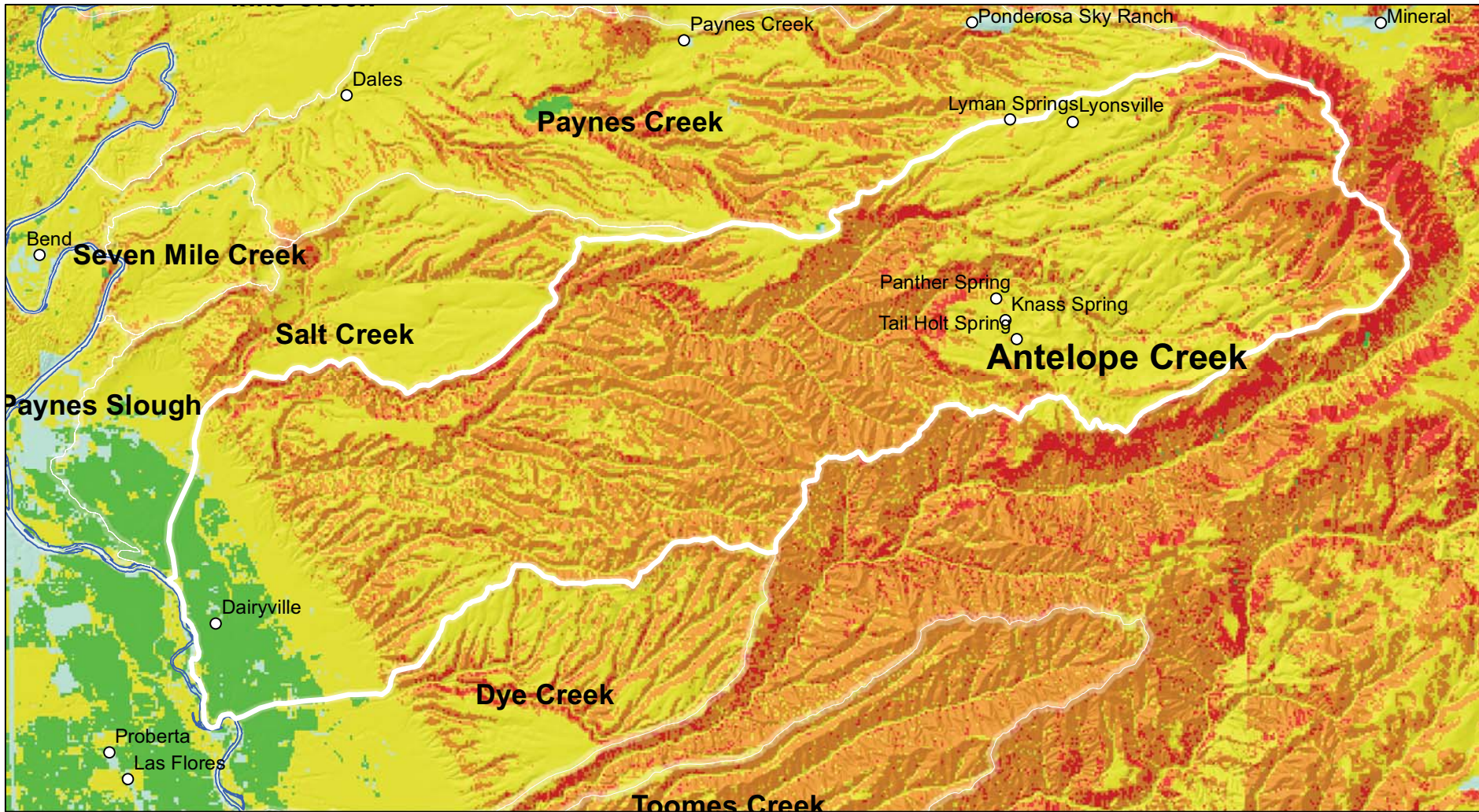
-  Streams/Rivers
-  Urban Areas
-  Watershed Boundary

Year of Survey

-  1959 - 1970
-  1971 - 1986
-  1987 - 1993
-  1994 - 1998
-  1999 - 2003



<http://www.calfish.org/DataampMaps/CalFishDataDownloads/tabid/93/Default.aspx>



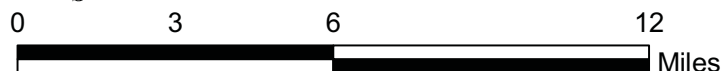
Tehama East Watershed Assessment

Post-fire Erosion Potential

Antelope Creek








Tehama County Resource Conservation District
(c) 2010




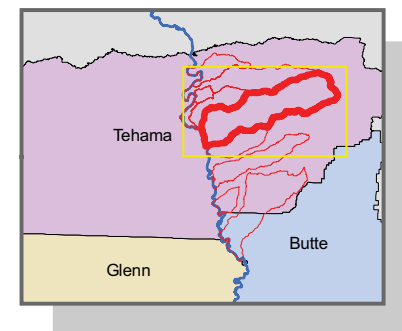
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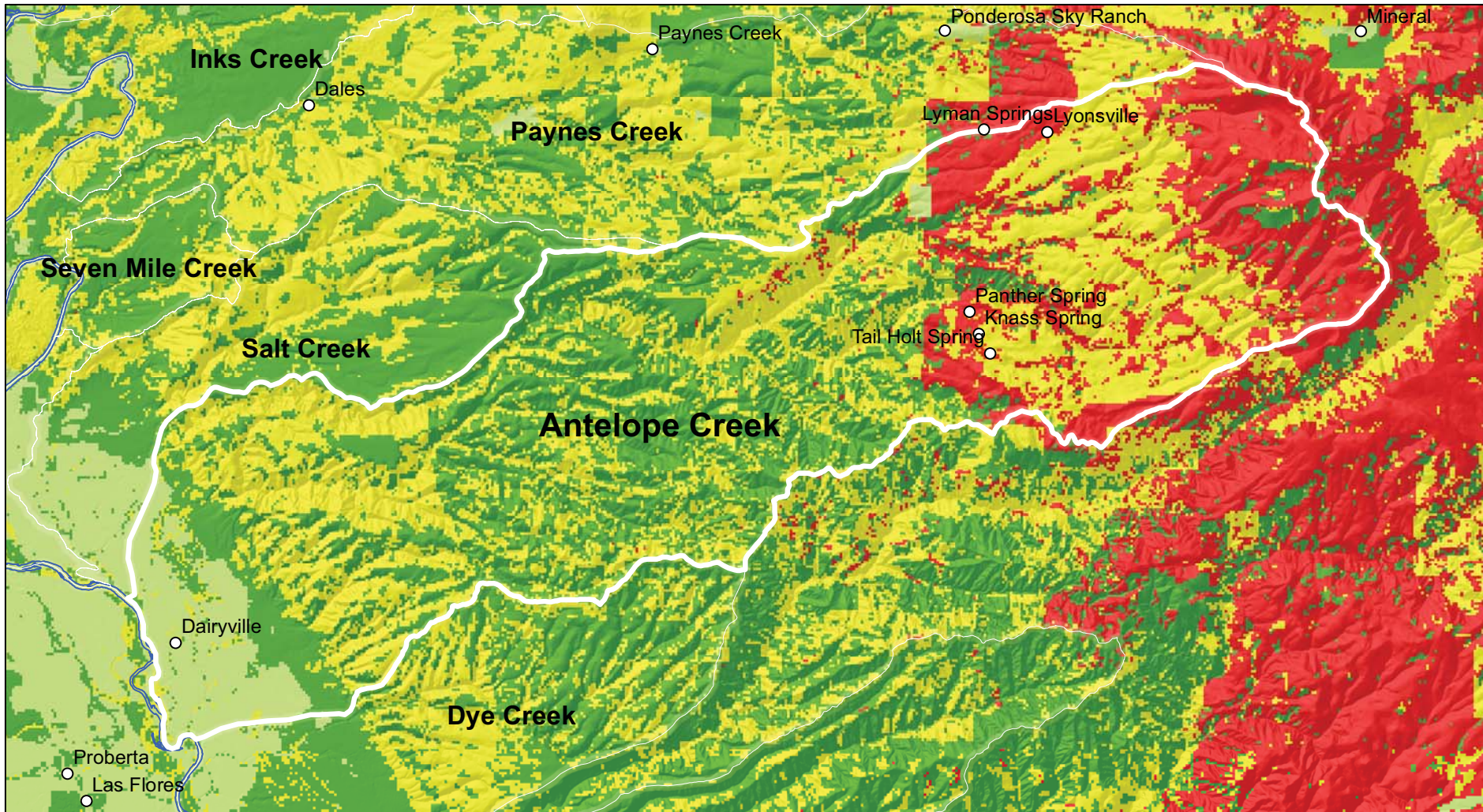
Erosion Classification

-  -1 : Areas without a Fuel Rank (generally Ag or Barren)
-  0 : Water and Urban areas outside scope of analysis
-  1 : Low
-  2 : Moderate
-  3 : High

<http://frap.cdf.ca.gov/data/frapgisdata/download.asp?spatialdist=1&rec=perod>

 Watershed Boundary



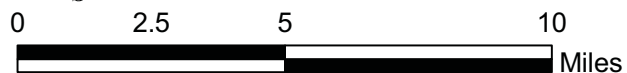


Tehama East Watershed Assessment

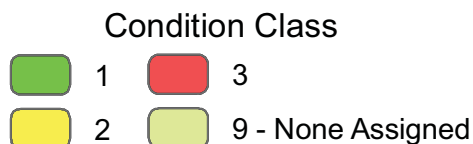
Fire Regime and Condition Class
Condition Class
Antelope Creek



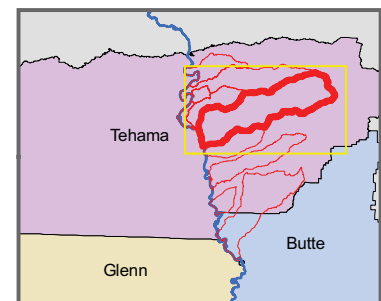
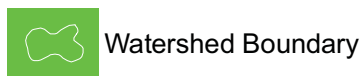
Tehama County Resource Conservation District
(c) 2010

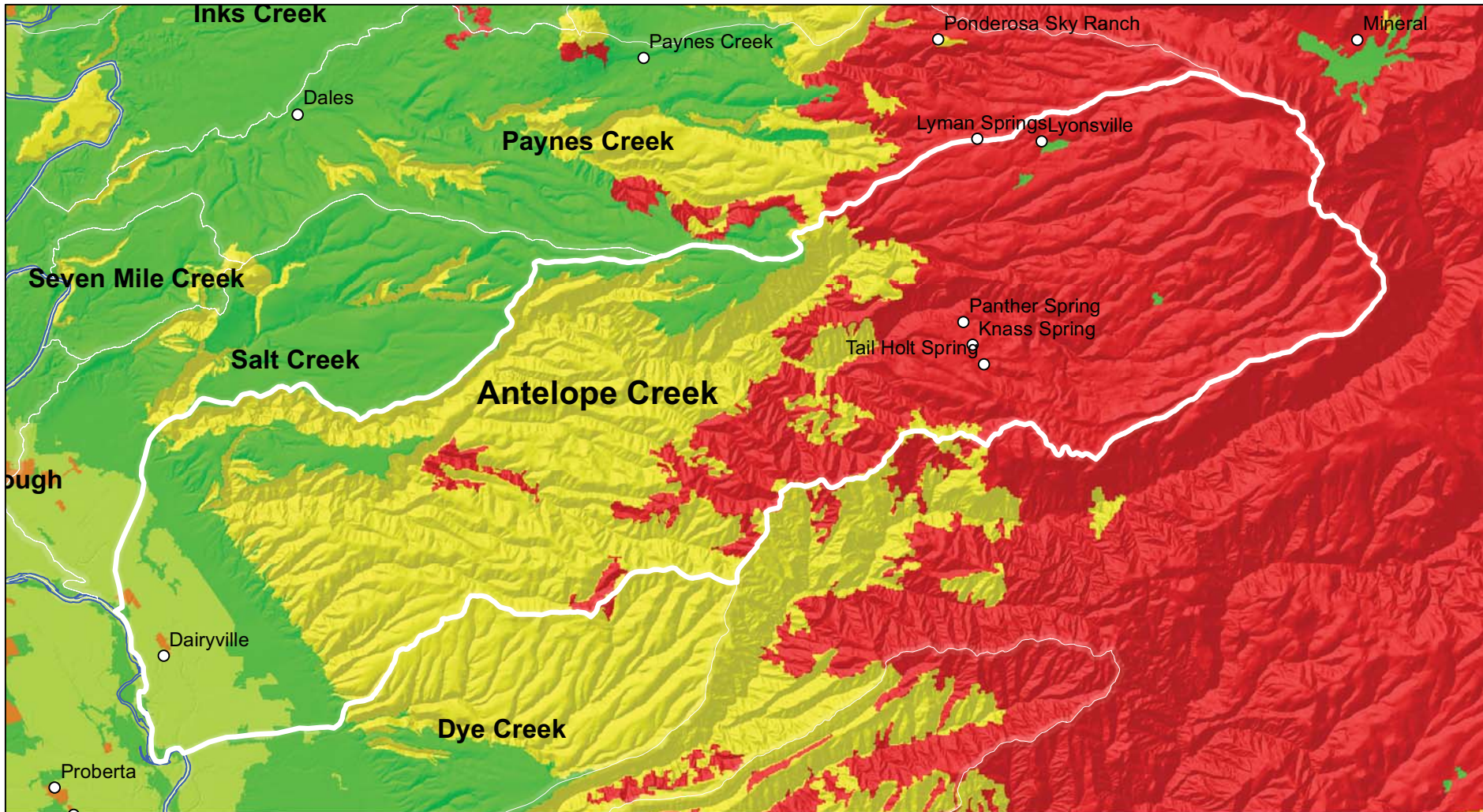


KEY



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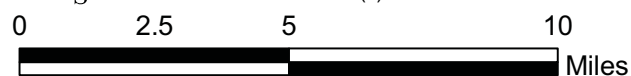


Tehama East Watershed Assessment

Fire Hazard Severity Zoning
2007 DRAFT - FRAP
Antelope Creek



Tehama County Resource Conservation District
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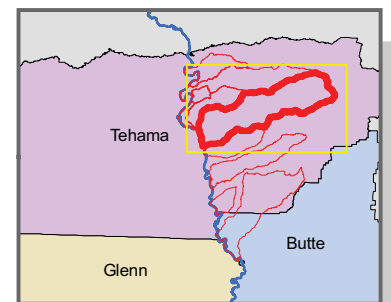


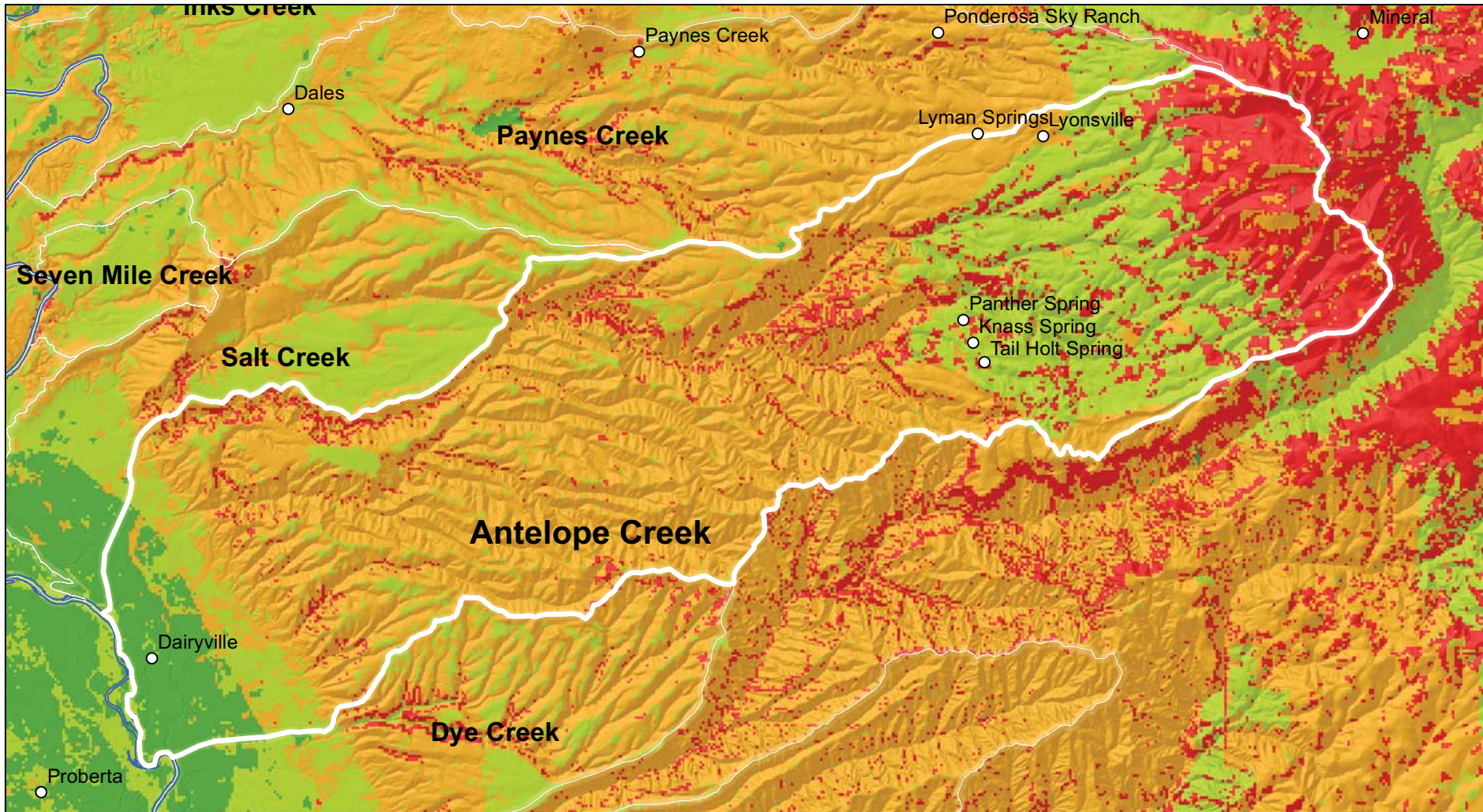
KEY

Hazard Class

- Moderate
- High
- Very High
- Non-Wildland/Non-Urban
- Urban Unzoned

Watershed Boundary



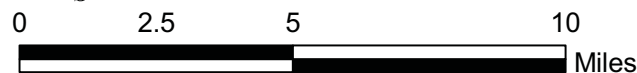


Tehama East Watershed Assessment

Fire Regime and Condition Class
 Fuel Ranking
 Antelope Creek



Tehama County Resource Conservation District
 (c) 2010



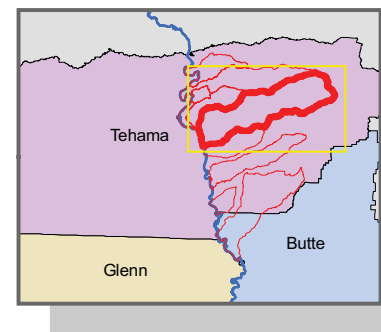
KEY

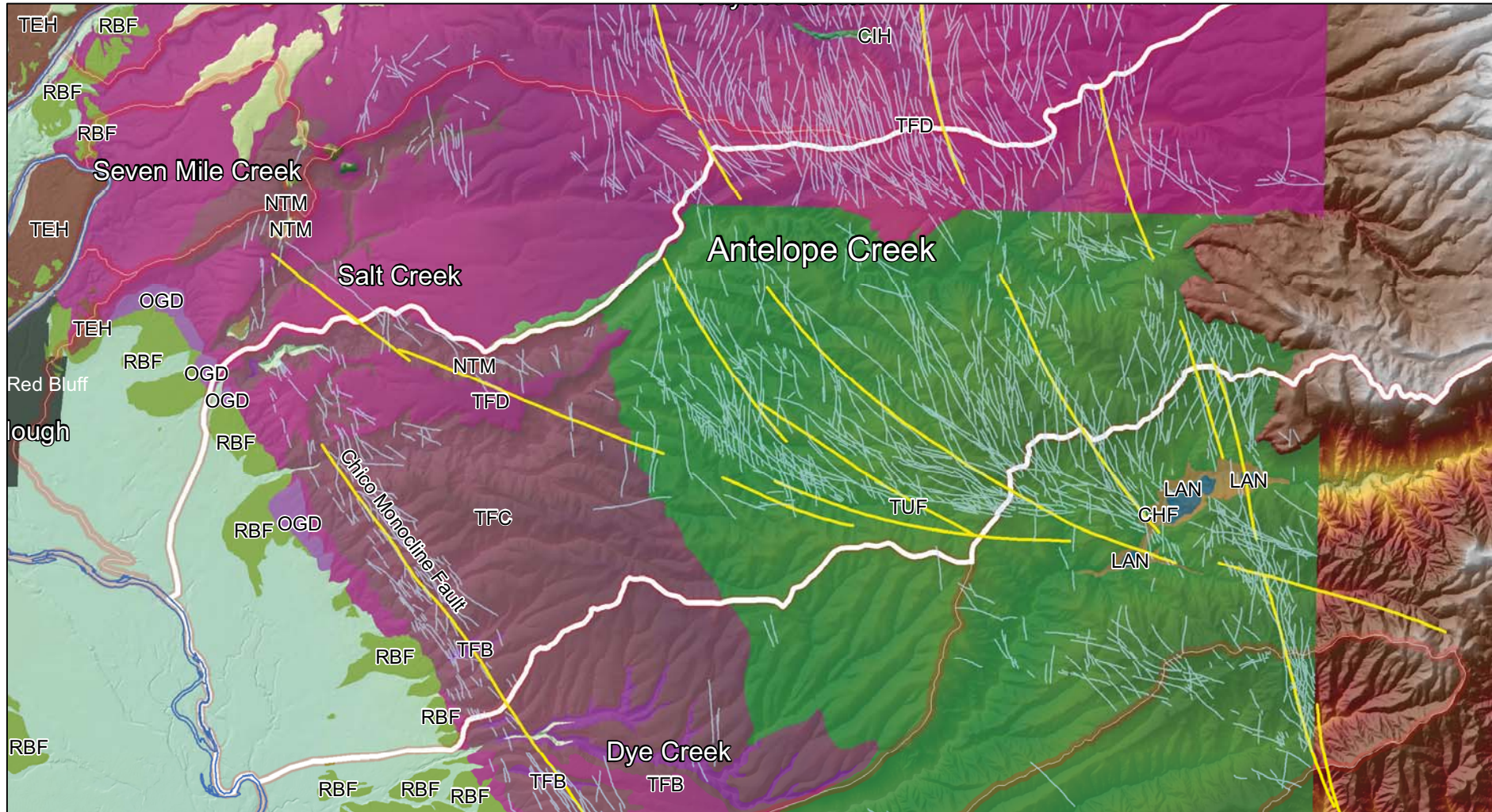
Fuel Ranking

- 1 - Little or No Hazard
- 1 - Moderate Hazard
- 2 - High Hazard
- 3 - Very High Hazard

<http://frap.cdf.ca.gov/data/frapgisdata/download.asp?spatialdist=1&rec=cafrcc>

Watershed Boundary





Tehama East Watershed Assessment

Selected Geological Formations, Fault Lines and Monoclines Antelope Creek

Legend

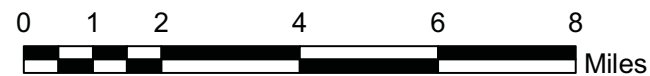
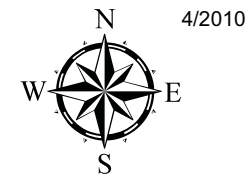
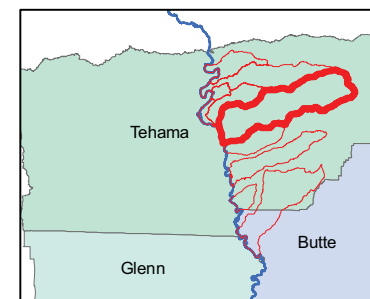
Selected Geology

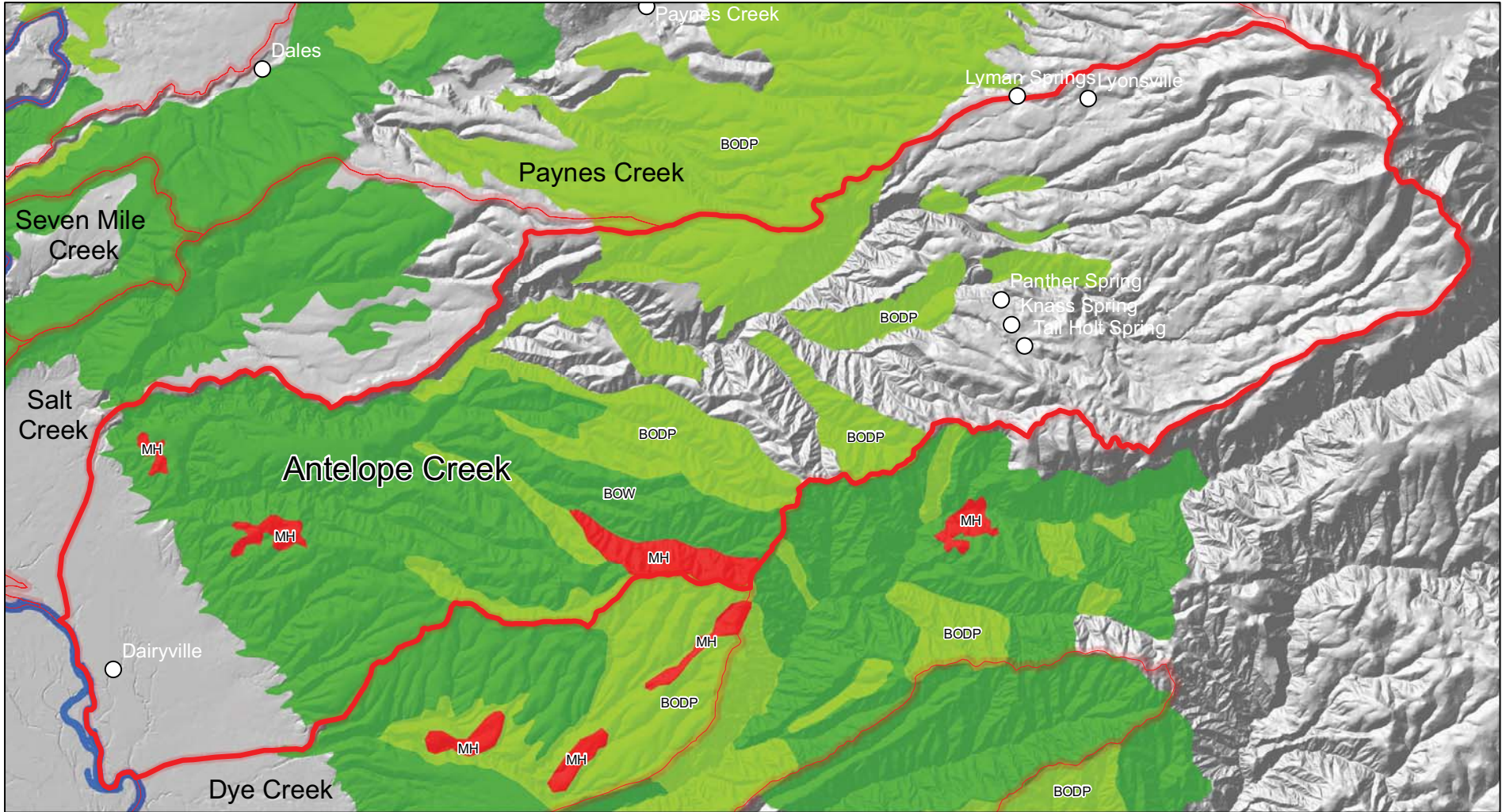
- | | | | |
|-----|------------------------------------|-----|---|
| CHF | Chico Formation | TAI | Tailings |
| CBB | Cinder Cone Deposits, Black Butte | TEH | Tehama Formation |
| CDB | Cinder Cone Deposits, Digger Butte | TUF | Tuscan Formation |
| CIH | Cinder Cone Deposits, Inskipp Hill | TFU | Tuscan Formation, Undifferentiated Unit A & B |
| LAN | Landslides | TFA | Unit A, Tuscan Formation |
| LOB | Lovejoy Basalt | TFB | Unit B, Tuscan Formation |
| NTM | Nomlaki Tuff Member | TFC | Unit C, Tuscan Formation |
| OGD | Older Gravel Deposits | TFD | Unit D, Tuscan Formation |
| RBF | Red Bluff Formation | | |

- Chico Monocline Lineaments
- Fault Lines

<http://projects.atlas.ca.gov/projects/sacvalleygeol>

- Urban Areas
- Watershed Boundary



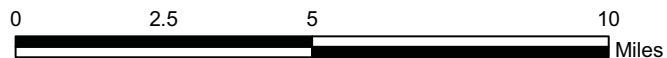


Tehama East Watershed Assessment

Hardwood Rangelands Antelope Creek



Tehama County Resource Conservation District
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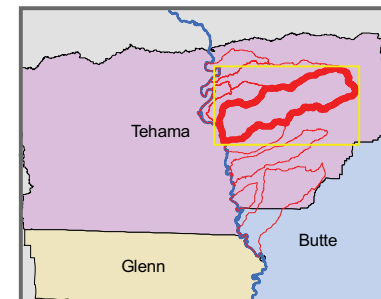
KEY

Cover Type

- BODP - Blue Oak \ Foothill Pine
- BOW - Blue Oak Woodland
- MH - Montane Hardwoods
- OTHER - Non-Hardwood
- VOW - Valley Oak Woodland

<http://frap.cdf.ca.gov/data/frapgisdata/download.asp?rec=hardwoods>

- Watershed Boundary
- Streams/Rivers
- Communities



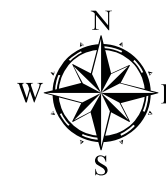
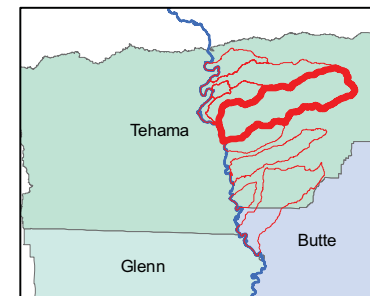


Tehama East Watershed Assessment

Land Cover National Land Cover Database Antelope Creek

Legend

- | | | |
|----------------------------------|-----------------------------------|--------------------|
| 11 - Open Water | 52 - Shrub/Scrub | Urban Areas |
| 21 - Developed, Open Space | 71 - Grasslands/Herbaceous | Watershed Boundary |
| 22 - Developed, Low Intensity | 81 - Pasture/Hay | |
| 23 - Developed, Medium Intensity | 82 - Cultivated Crops | |
| 24 - Developed, High Intensity | 90 - Woody Wetlands | |
| 31 - Bare Rock/Sand/Clay | 95 - Emergent Herbaceous Wetlands | |
| 41 - Deciduous Forest | | |
| 42 - Evergreen Forest | | |
| 43 - Mixed Forest | | |



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http://www.mrlc.gov/nlcd_multizone_map.php
Homer, C. C. Huang, L. Yang, B. Wylie and M. Coan. 2004. Development of a 2001 National Landcover Database for the United States. Photogrammetric Engineering and Remote Sensing, Vol. 70, No. 7, July 2004, pp. 829-840.



Tehama East Watershed Assessment

Land Use - Agriculture
 Department of Water Resources
 Antelope Creek - East

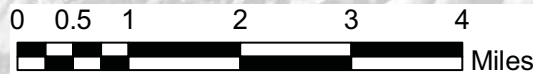
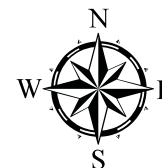
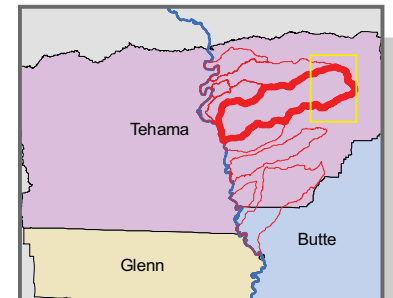
KEY

Land Use - Agriculture

- | | |
|--------------------------------------|--|
| C3 - Oranges | I1 - Land not cropped for the last 3 years |
| C6 - Olives | I2 - New lands being prepared for crops |
| C7 - Miscellaneous Subtropical Fruit | P1 - Alfalfa & alfalfa mixtures |
| C8 - Kiwis | P2 - Clover |
| C10 - Eucalyptus | P3 - Mixed Pasture |
| D1 - Apples | P4 - Native Pasture |
| D2 - Apricots | P5 - Induced High Water Table Nat. Pas. |
| D3 - Cherries | P7 - Turf Farms |
| D5 - Peaches and Nectarines | P - Pasture ** |
| D6 - Pears | R - Rice |
| D8 - Prunes | R - Rice ** |
| D9 - Figs | T2 - Asparagus |
| D10 - Miscellaneous Deciduous | T9 - Melons, squash, and cucumbers |
| D12 - Almonds | T10 - Onions and Garlic |
| D13 - Walnuts | T15 - Tomatoes |
| D14 - Pistachios | T16 - Flowers, Nursery & Tree Farms |
| F - Field Crops | T18 - Miscellaneous Truck Farms |
| F1 - Cotton | T19 - Bush Berries |
| F2 - Safflower | T20 - Strawberries |
| F3 - Flax | V - Vineyards |
| F5 - Sugar Beets | V2 - Wine Grapes |
| F6 - Corn, Field & Sweet | V - Vineyards ** |
| F8 - Sudan | |
| F - Field Crops ** | |
| F10 - Beans, Dry | |
| F11 - Miscellaneous Field | |
| F12 - Sunflowers | |
| G - Grain & Hay Crops | |
| G1 - Barley | |
| G2 - Wheat | |
| G3 - Oats | |
| G6 - Miscellaneous Grain & Hay | |
| G - Grain & Hay Crops ** | |

** No specific crop was assigned.
<http://www.water.ca.gov/landwateruse/lusrvymain.cfm>

- Urban Areas
- Watershed Boundary



Tehama East Watershed Assessment

Land Use - Agriculture
 Department of Water Resources
 Antelope Creek - West

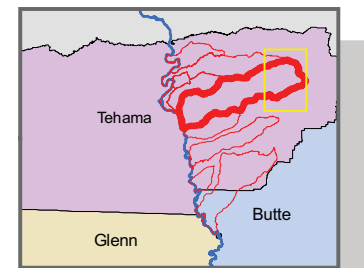
KEY

Land Use - Agriculture

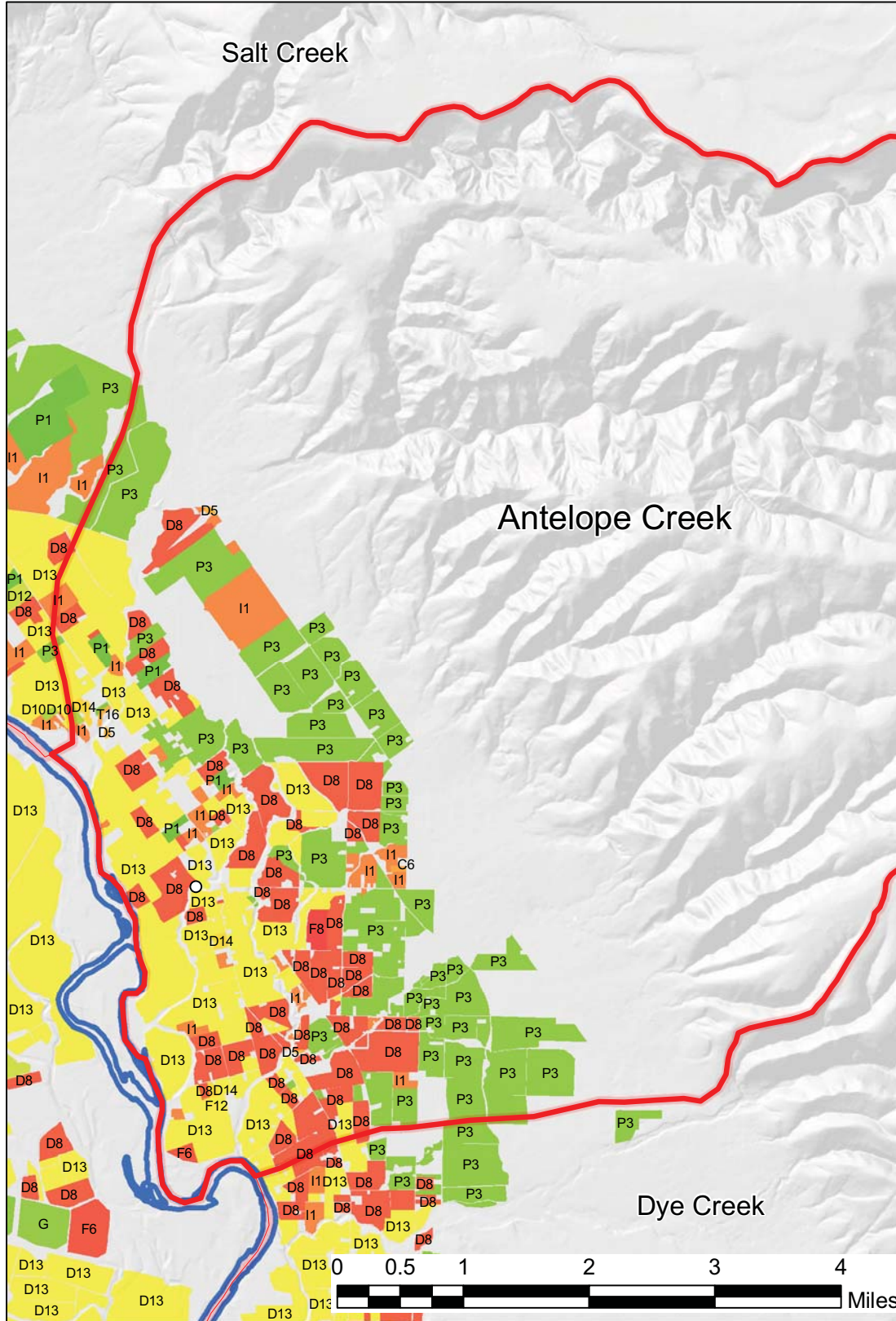
- | | |
|--------------------------------------|--|
| C3 - Oranges | I1 - Land not cropped for the last 3 years |
| C6 - Olives | I2 - New lands being prepared for crops |
| C7 - Miscellaneous Subtropical Fruit | P1 - Alfalfa & alfalfa mixtures |
| C8 - Kiwis | P2 - Clover |
| C10 - Eucalyptus | P3 - Mixed Pasture |
| D1 - Apples | P4 - Native Pasture |
| D2 - Apricots | P5 - Induced High Water Table Nat. Pas. |
| D3 - Cherries | P7 - Turf Farms |
| D5 - Peaches and Nectarines | P - Pasture ** |
| D6 - Pears | R - Rice |
| D8 - Prunes | R - Rice ** |
| D9 - Figs | T2 - Asparagus |
| D10 - Miscellaneous Deciduous | T9 - Melons, squash, and cucumbers |
| D12 - Almonds | T10 - Onions and Garlic |
| D13 - Walnuts | T15 - Tomatoes |
| D14 - Pistachios | T16 - Flowers, Nursery & Tree Farms |
| F - Field Crops | T18 - Miscellaneous Truck Farms |
| F1 - Cotton | T19 - Bush Berries |
| F2 - Safflower | T20 - Strawberries |
| F3 - Flax | V - Vineyards |
| F5 - Sugar Beets | V2 - Wine Grapes |
| F6 - Corn, Field & Sweet | V - Vineyards ** |
| F8 - Sudan | |
| F - Field Crops ** | |
| F10 - Beans, Dry | |
| F11 - Miscellaneous Field | |
| F12 - Sunflowers | |
| G - Grain & Hay Crops | |
| G1 - Barley | |
| G2 - Wheat | |
| G3 - Oats | |
| G6 - Miscellaneous Grain & Hay | |
| G - Grain & Hay Crops ** | |

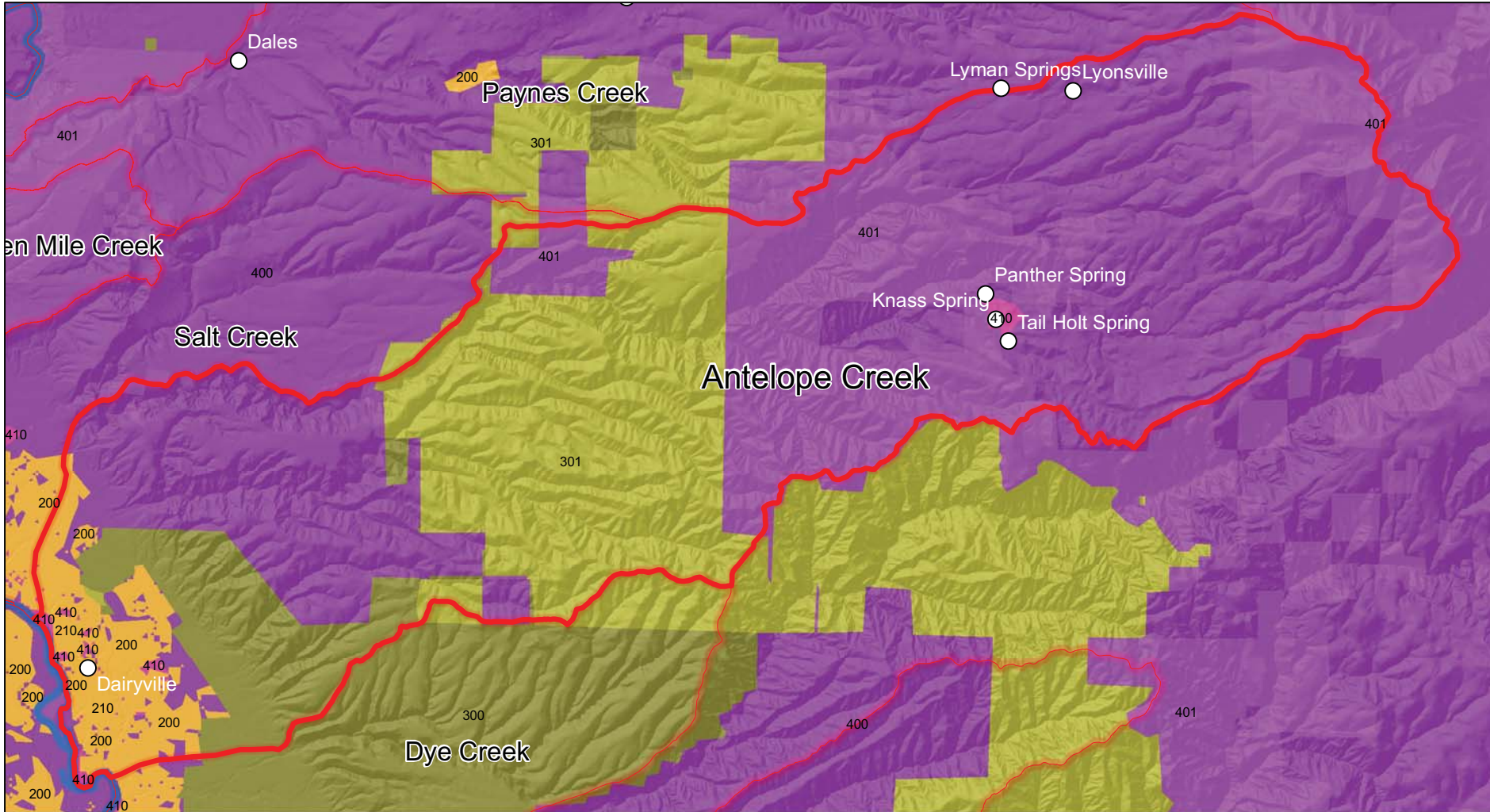
** No specific crop was assigned.
<http://www.water.ca.gov/landwateruse/lusrvmain.cfm>

- Urban Areas
- Watershed Boundary



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Tehama East Watershed Assessment

Managementscapes CalFire - FMMP (2000) Antelope Creek

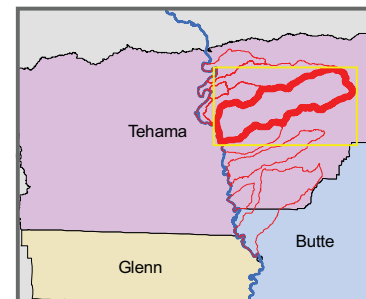


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Managementscape Grid Code

- 110 - URBAN/PRIVATE
- 111 - URBAN/PUBLIC
- 200 - AG/SPARSE RES/PRIVATE
- 201 - AG/SPARSE RES/PUBLIC
- 210 - AG/RURAL RES/PRIVATE
- 300 - RESERVE/SPARSE RES/PRIVATE
- 301 - RESERVE/SPARSE RES/PUBLIC
- 310 - RESERVE/RURAL RES/PRIVATE
- 311 - RESERVE/RURAL RES/PUBLIC
- 400 - WORKING/SPARSE RES/PRIVATE
- 401 - WORKING/SPARSE RES/PUBLIC
- 410 - WORKING/RURAL RES/PRIVATE
- 411 - WORKING/RURAL RES/PUBLIC

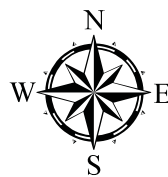


- Watershed Boundary
- Sacramento River
- Communities

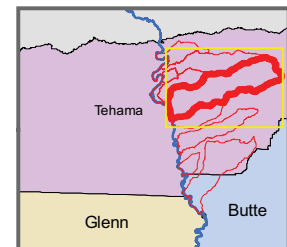
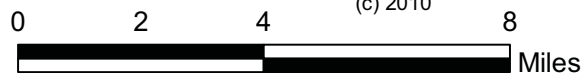


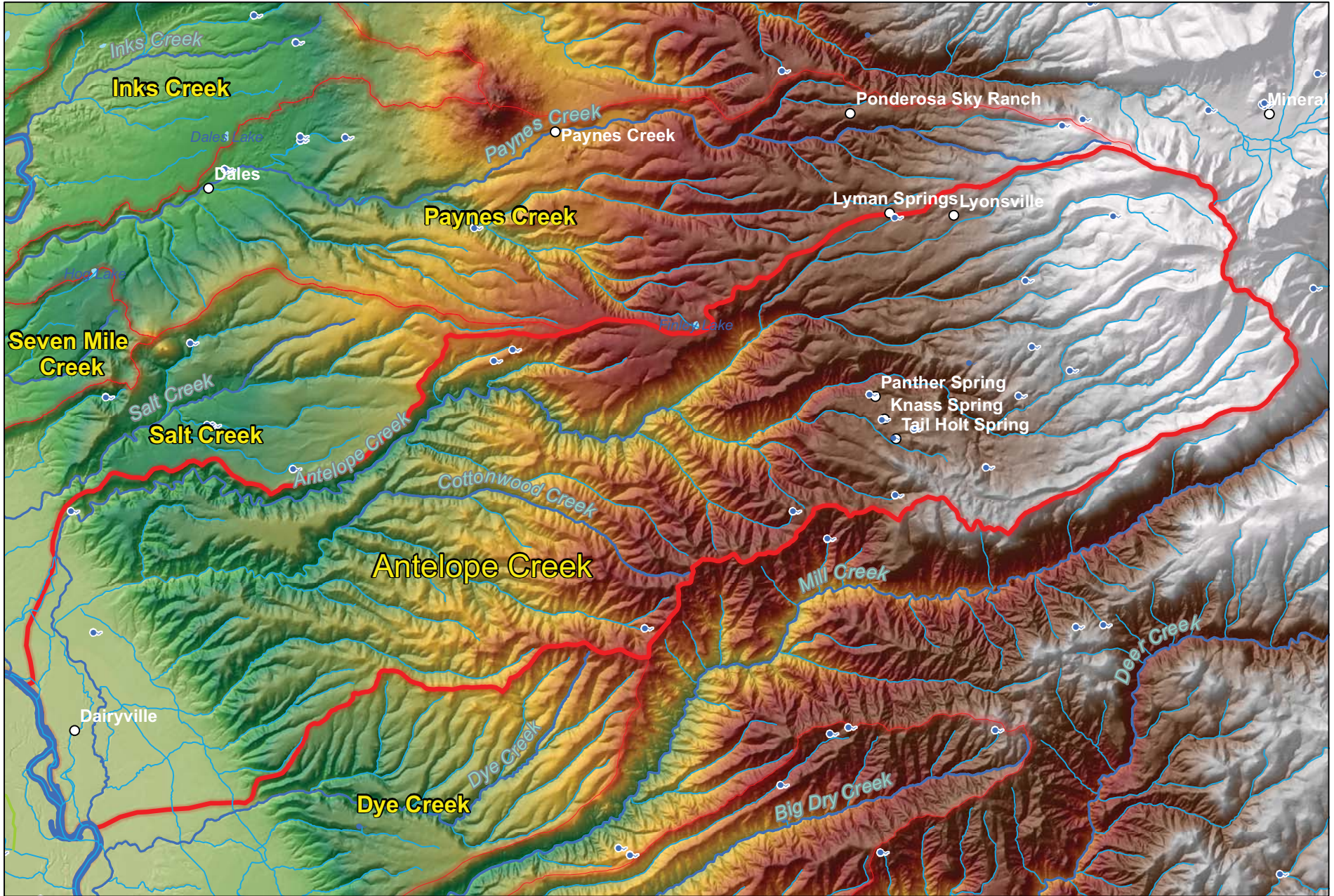
Tehama East Watershed Assessment

NAIP 2009
Antelope Creek



Tehama County Resource
Conservation District
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Tehama East Watershed Assessment

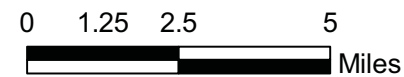
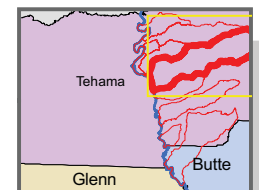
Water Features
National Hydrography Dataset - USGS
Antelope Creek

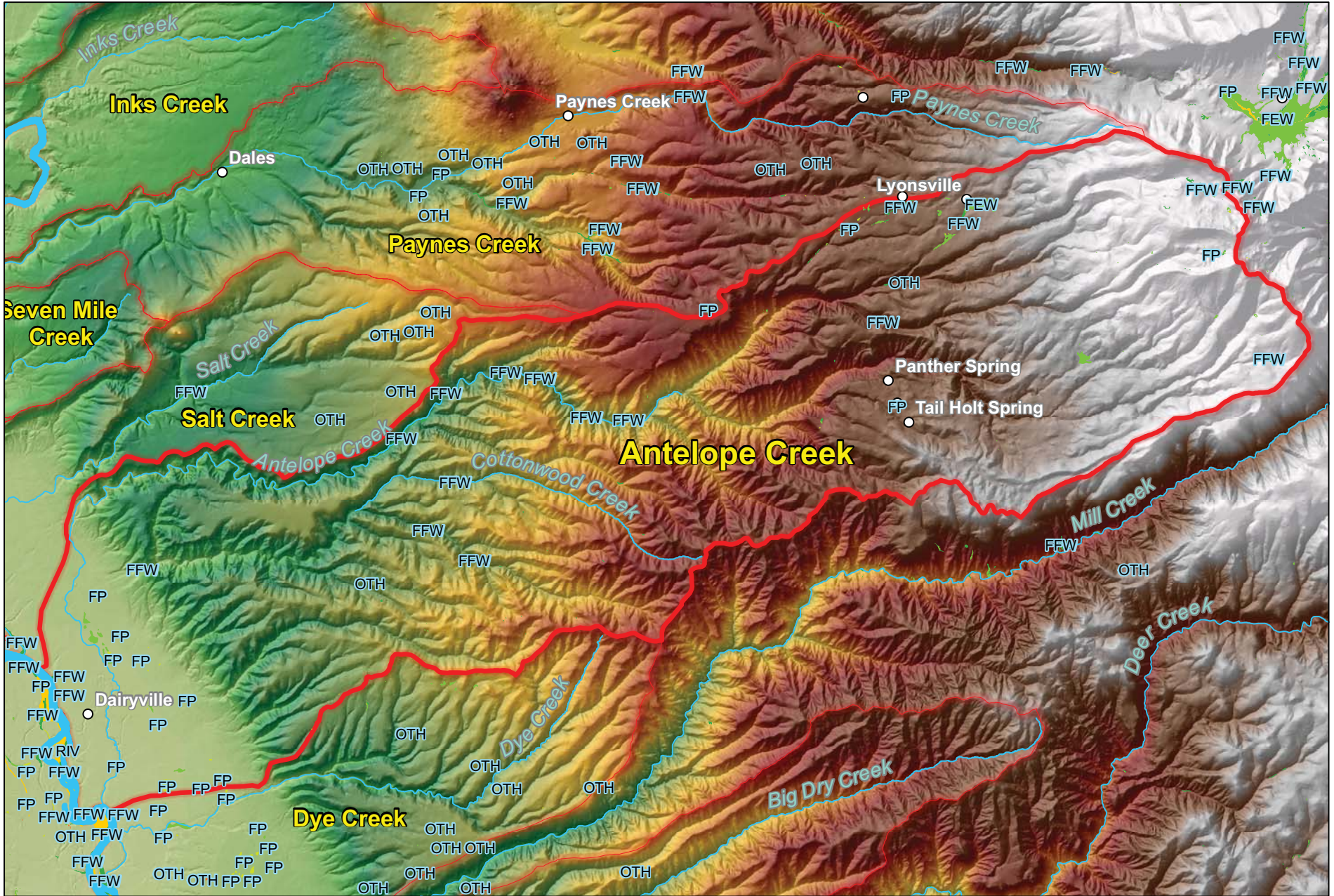
KEY

- Springs
 - Canal/Ditch
 - Streams/Rivers
 - Lake or Pond
 - Watershed Boundary
- <http://nhd.usgs.gov/data.html>



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Tehama East Watershed Assessment

National Wetland Inventory
 US Fish & Wildlife Service
 Antelope Creek

KEY

Wetland Type

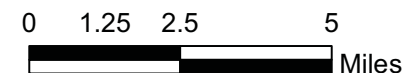
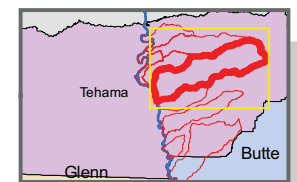
- FFW Freshwater Emergent Wetland
- FFW Freshwater Forested/Shrub Wetland
- FP Freshwater Pond
- LK Lake
- OTH Other
- RIV Riverine

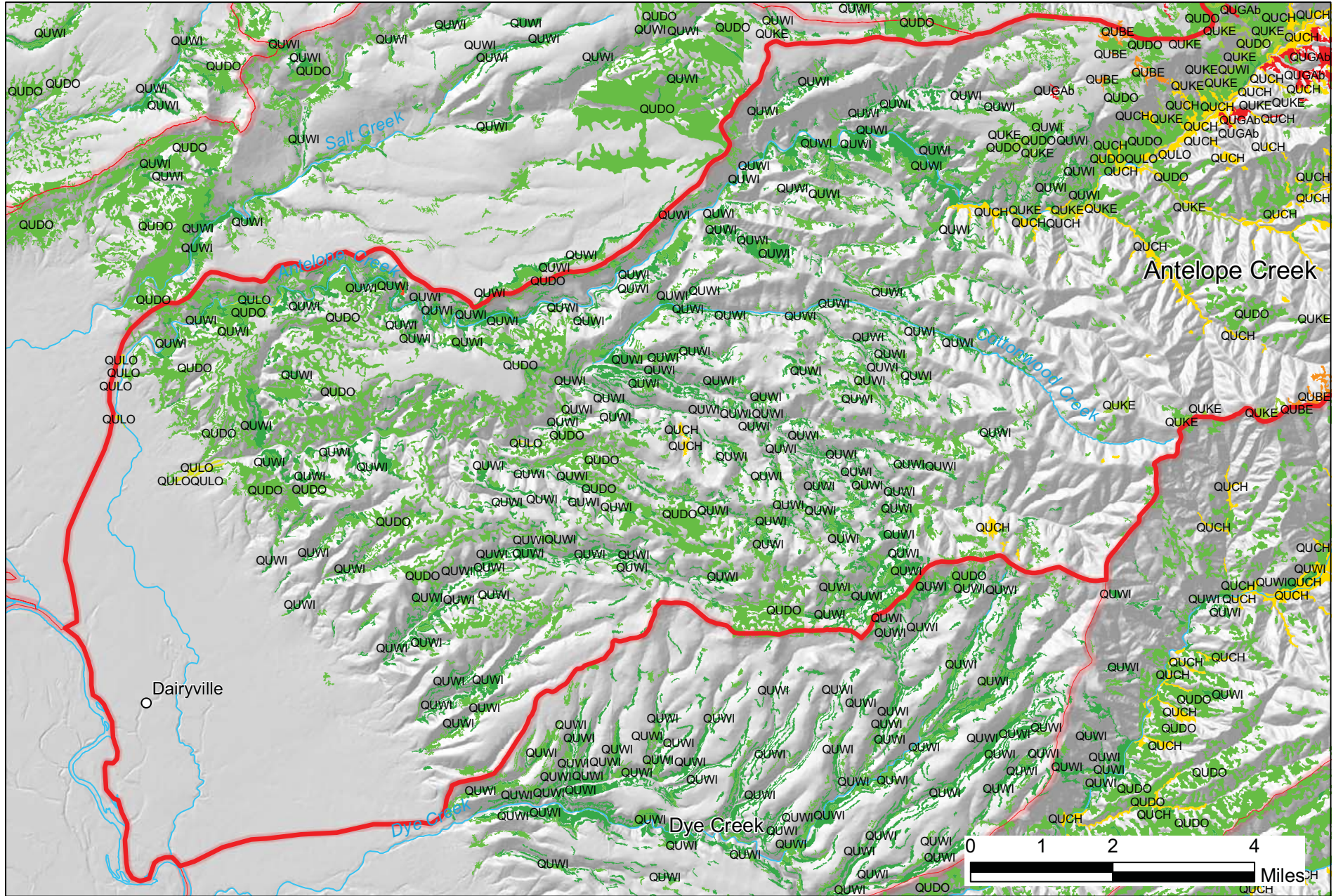
<http://www.fws.gov/wetlands/Data/DataDownload.html>

Watershed Boundary



Tehama County Resource Conservation District
 (c) 2010





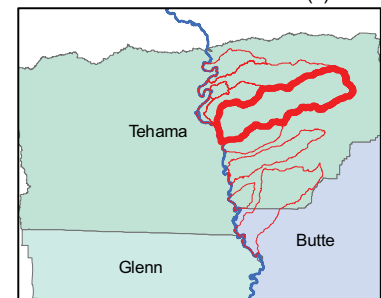
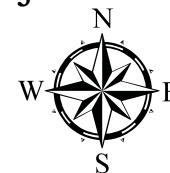
Tehama East Watershed Assessment

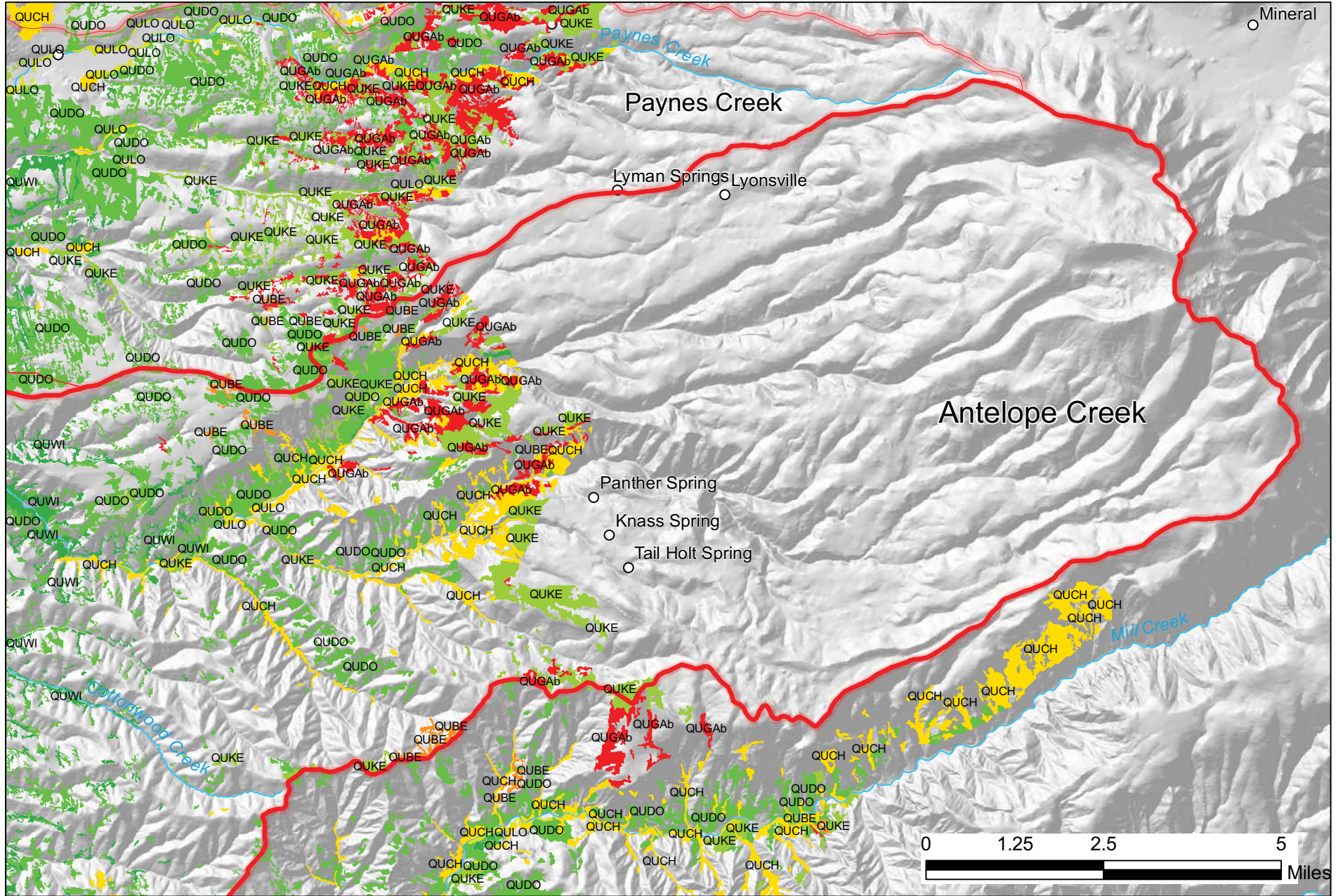
Oak Woodlands TNC, CNPS, TCRCD Special Project Antelope Creek - West

Tehama County Resource Conservation District (c)2010

- Legend**
- QUWI Quercus wislizeni (Interior Live Oak Tree)
 - QUCH Quercus chrysolepis (Canyon Live Oak)
 - QUDO Quercus douglasii (Blue Oak)
 - QUBE Quercus berberidifolia (scrub oak)
 - QUKE Quercus kelloggii (Black Oak)
 - QUDU Quercus durata (Leather Oak)
 - QULO Quercus lobata (Valley Oak)
 - QUGab Quercus garryana/ var. breweri (Brewer Oak)

Watershed Boundary





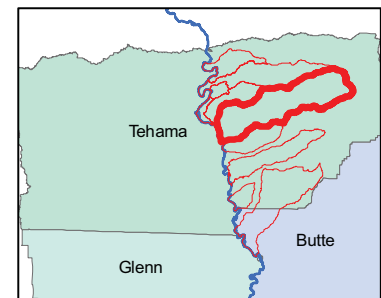
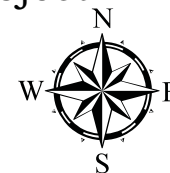
Tehama East Watershed Assessment

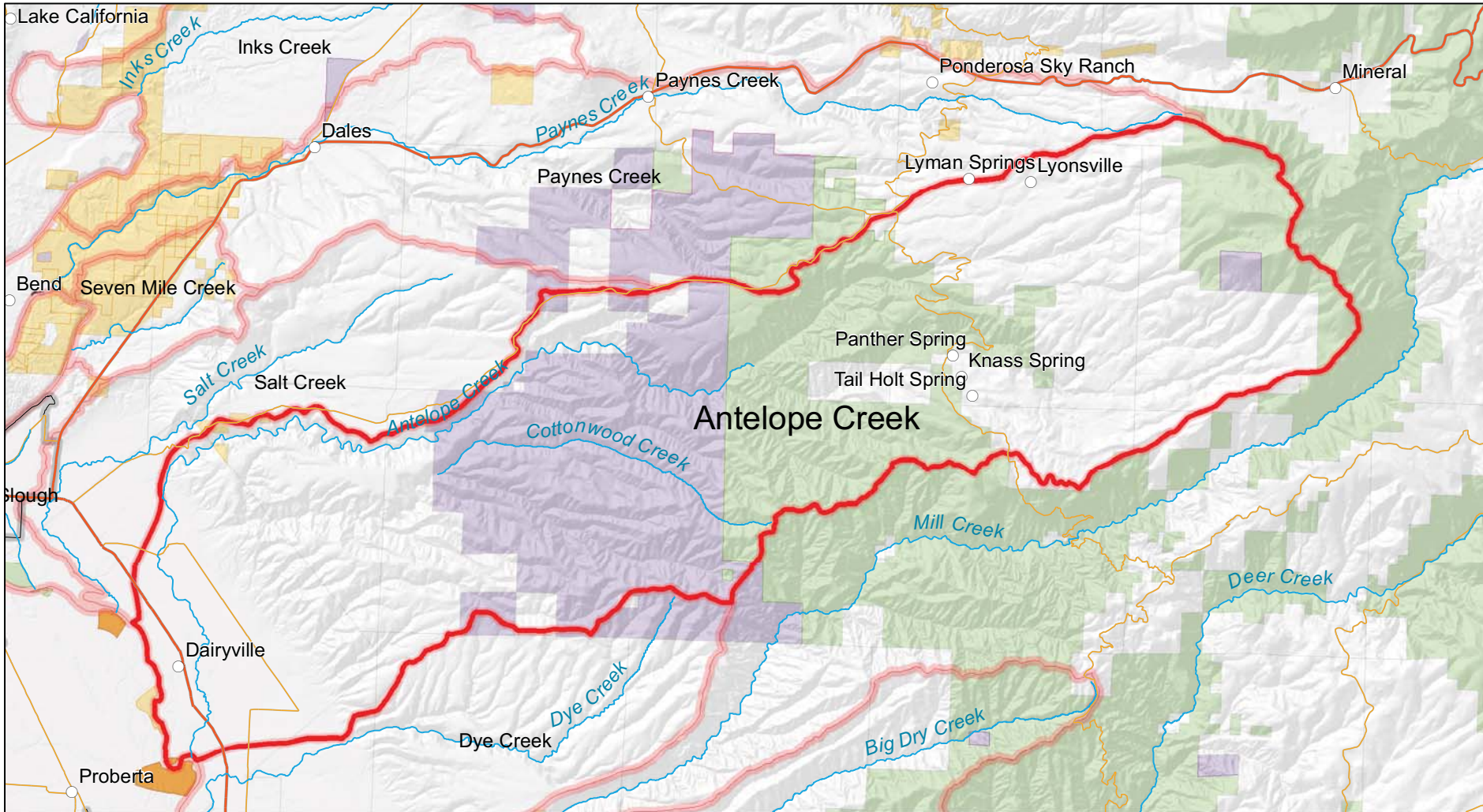
Oak Woodlands TNC, CNPS, TCRCD Special Project Antelope Creek - East

Tehama County Resource Conservation District (c)2010

Legend

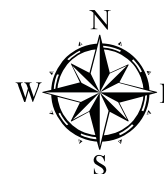
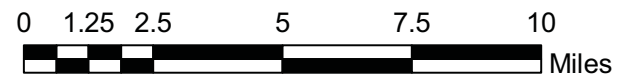
- | | |
|--|--|
| QUWI Quercus wislizeni (Interior Live Oak Tree) | QUCH Quercus chrysolepis (Canyon Live Oak) |
| QUDO Quercus douglasii (Blue Oak) | QUBE Quercus berberidifolia (scrub oak) |
| QUKE Quercus kelloggii (Black Oak) | QUDU Quercus durata (Leather Oak) |
| QULO Quercus lobata (Valley Oak) | QUGAB Quercus garryana/ var. breweri (Brewer Oak) |
| | Watershed Boundary |





Tehama East Watershed Assessment

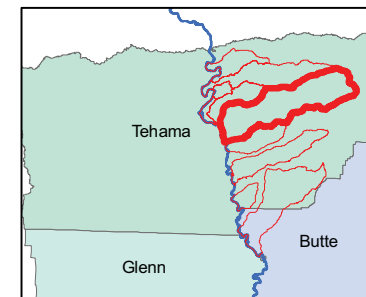
Land Ownership Antelope Creek

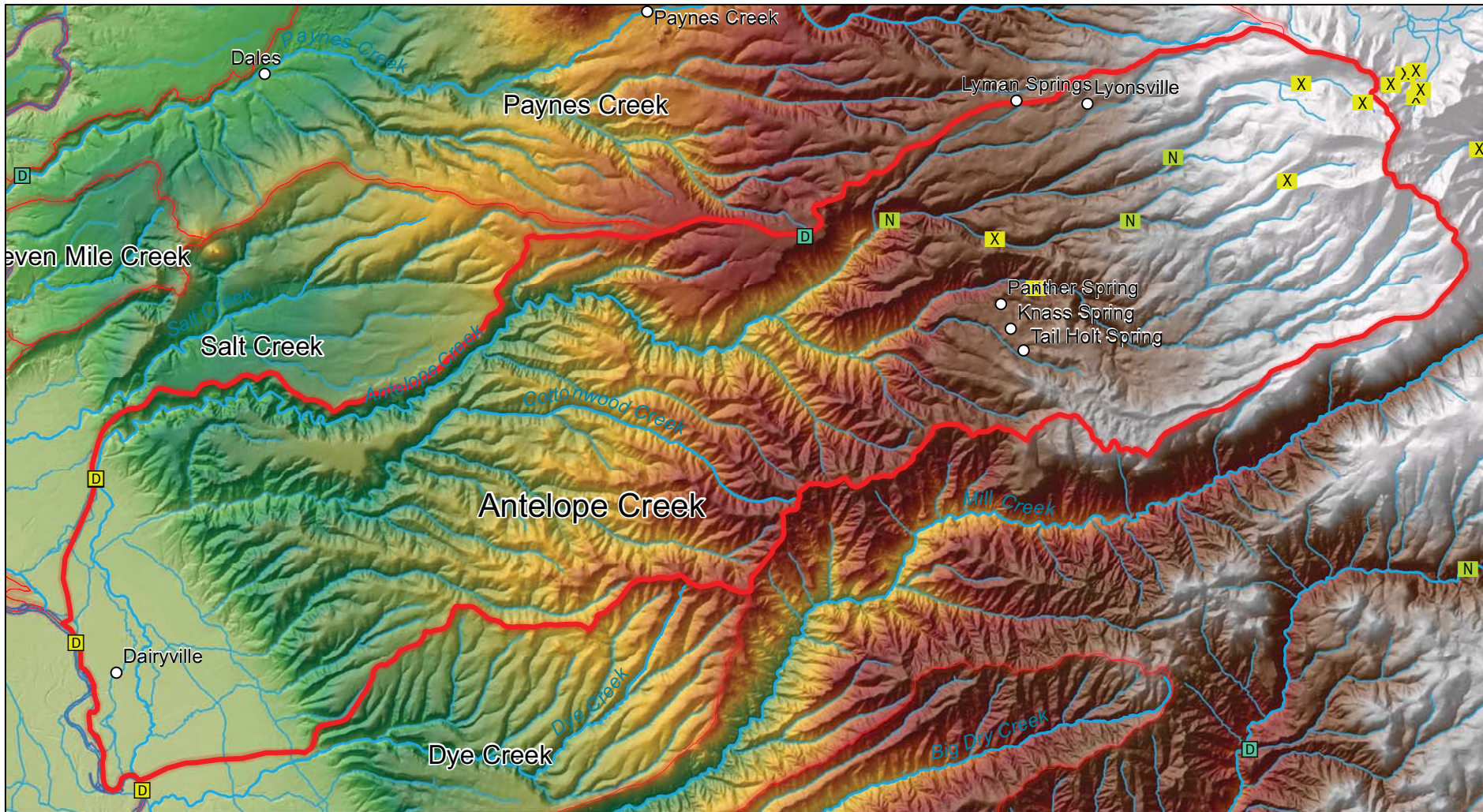


Legend

-  State Lands
-  US National Forest
-  US Bureau of Land Management
-  US Fish and Wildlife
-  Private
-  Major Roads & Highways
-  Urban Areas
-  Watershed Boundary

State: 28,331 Acres
 National Forest: 29,221 Acres
 BLM: 183 Acres
 USFWS: 28 Acres
 Private: 71,290 Acres





Tehama East Watershed Assessment

Passage Assessment Database
Antelope Creek



Tehama County Resource Conservation District
(c) 2010

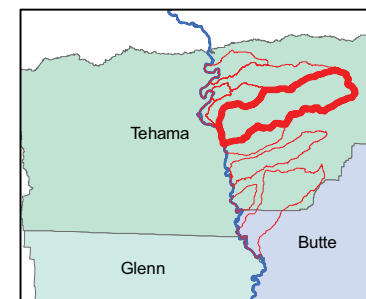
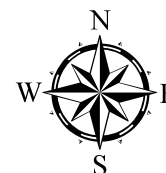
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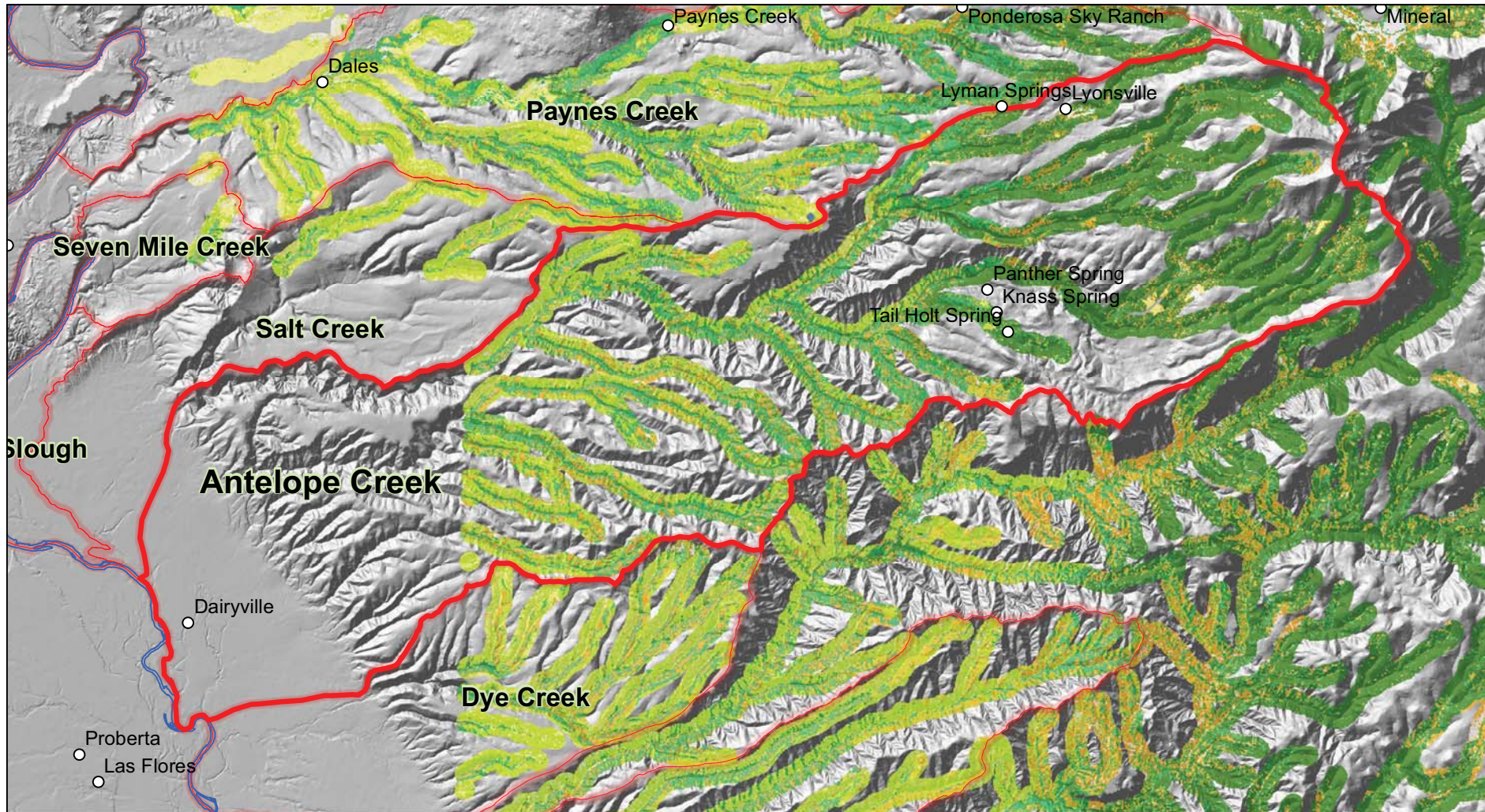
Site Type

- D Dam
- D Diversion
- T Fish trap
- N Non-structural
- X Road crossing

<http://www.calfish.org/DataampMaps/CalFishDataDownloads/tabid/93/Default.aspx>

Watershed Boundary



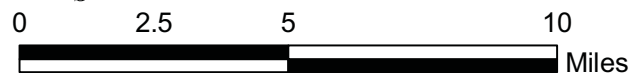


Tehama East Watershed Assessment

Riparian Vegetation
in Hardwood Rangelands
Antelope Creek



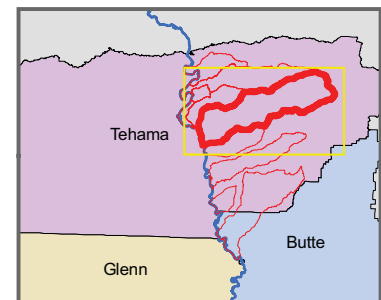
Tehama County Resource Conservation District
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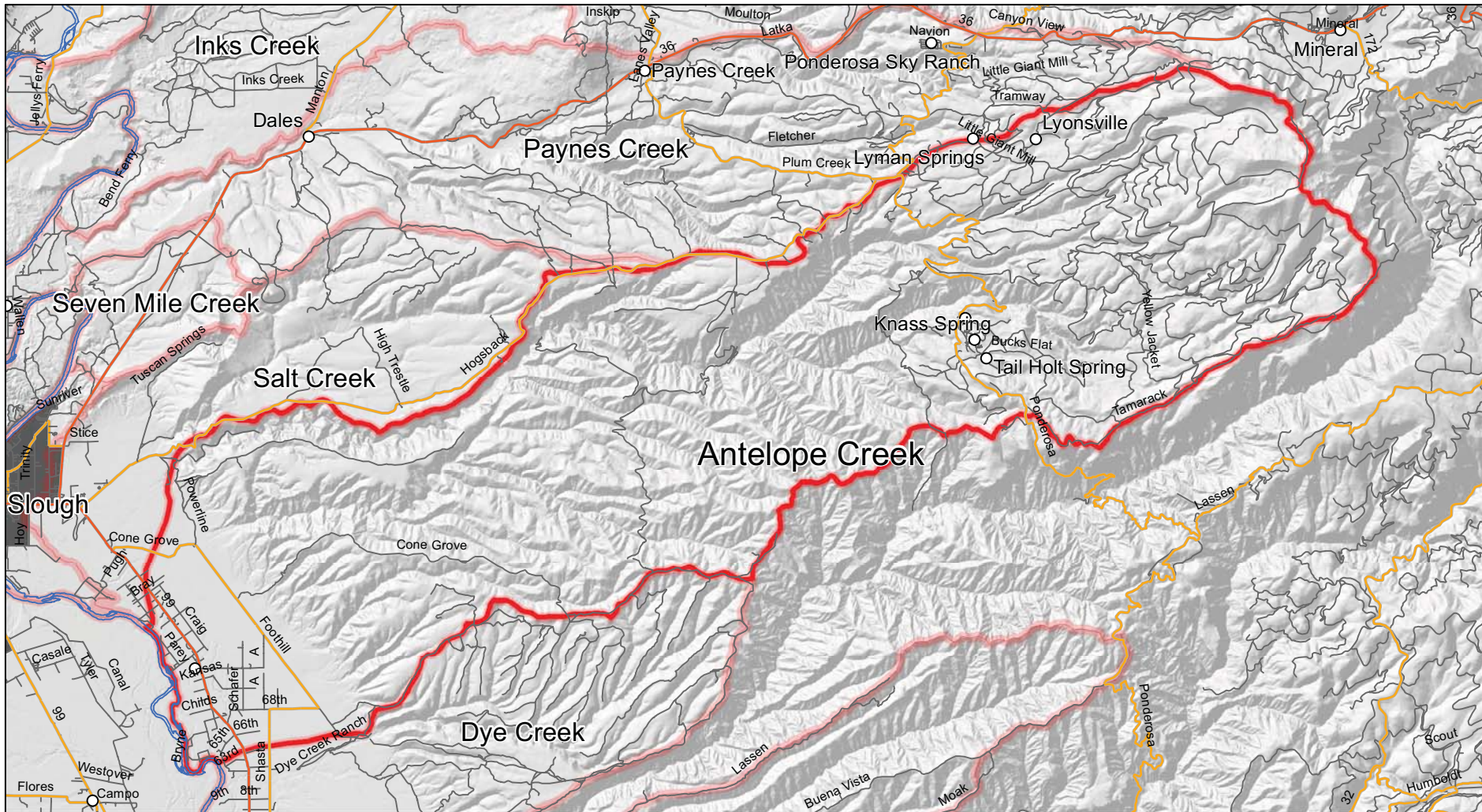


KEY

- Riparian
- Hardwood Range w/<70% Canopy
- Shrub
- Conifer
- Herbaceous
- Water
- Other: Urban, Marsh, Rock, Barren

Watershed Boundary





Tehama East Watershed Assessment

Roadways Antelope Creek

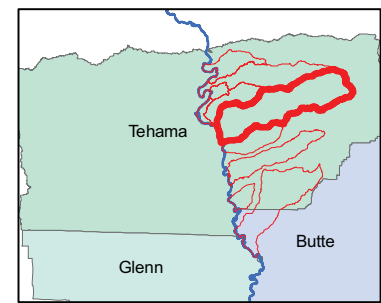
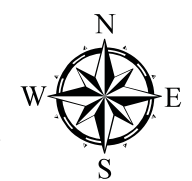


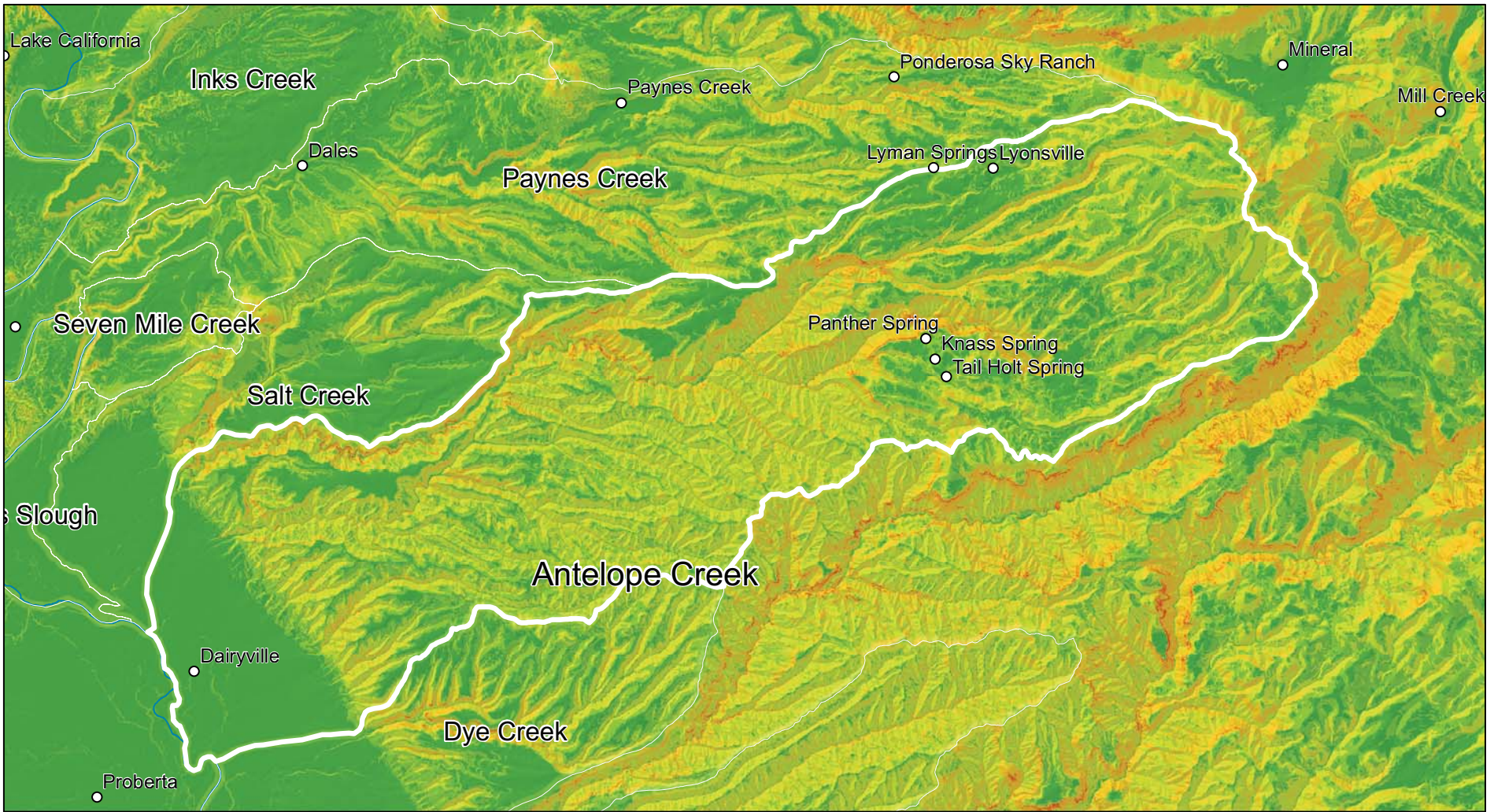
Tehama County Resource
Conservation District
(c) 2010



Legend

- | | | | | | | | |
|--|----------------|--|------------|--|----------------|--|--------------------|
| | Limited Access | | Local Road | | Ramp | | Urban Areas |
| | Highway | | Minor Road | | Ferry | | Watershed Boundary |
| | Major Road | | Other Road | | Pedestrian Way | | |





Tehama East Watershed Assessment

Percent Slope
Antelope Creek



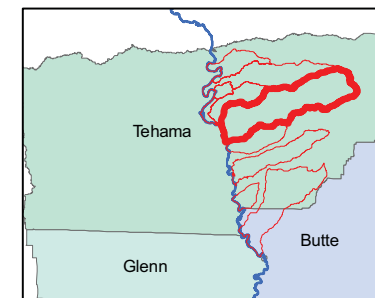
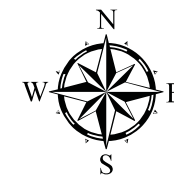
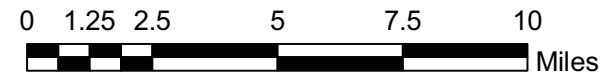
Tehama County Resource Conservation District
(c) 2010

Legend

Percent Slope

- 0 - 2 Percent
- 2 - 5 Percent
- 5 - 10 Percent
- 10 - 20 Percent
- 20 - 50 Percent
- 50 - 100 Percent

Watershed Boundary





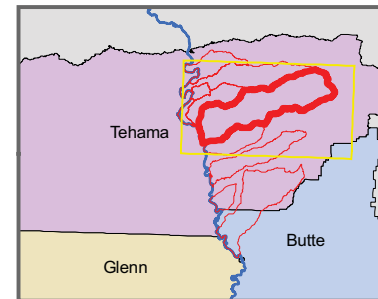
Tehama East Watershed Assessment

Land Capability Classification Antelope Creek

KEY

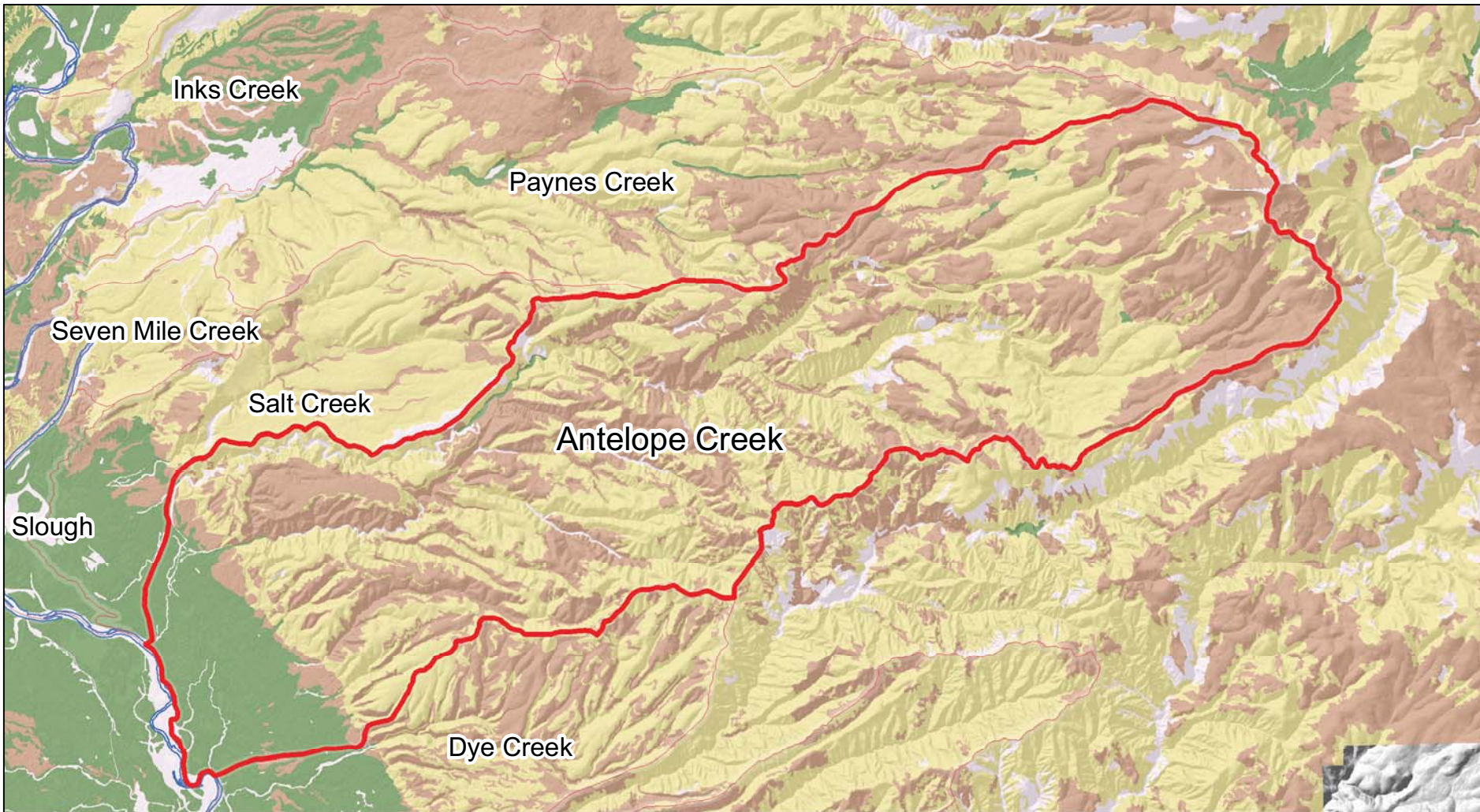
See Land Capabiity Classification Page

 Watershed Boundary



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Tehama East Watershed Assessment

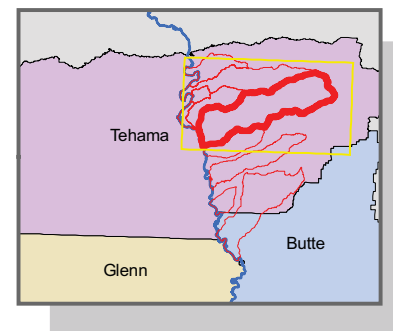
NRCS Soils Highly Erodible Soils
Antelope Creek

KEY

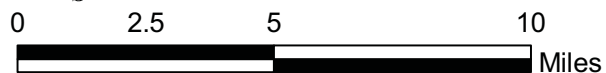
Highly Erodible Land Classification

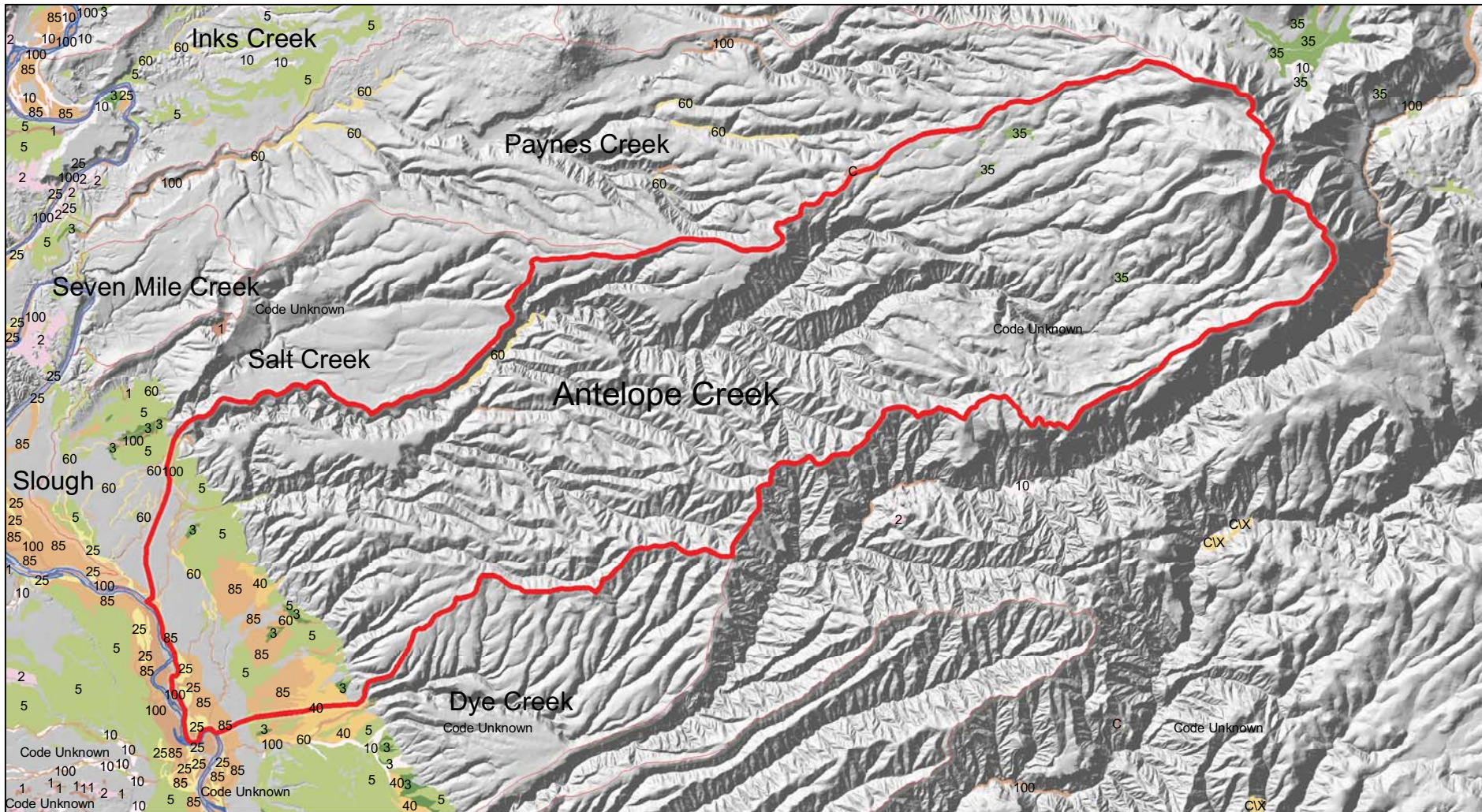
- 1
- 2
- 3
- Code Unknown

Watershed Boundary



Tehama County Resource Conservation District
(c) 2010



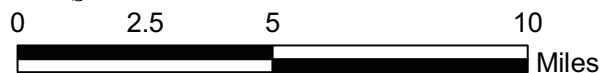


Tehama East Watershed Assessment

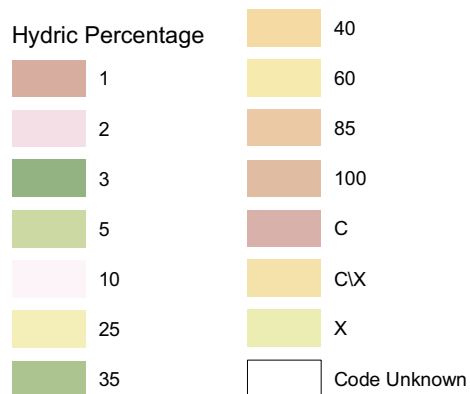
NRCS Soils Hydric Soils
Antelope Creek



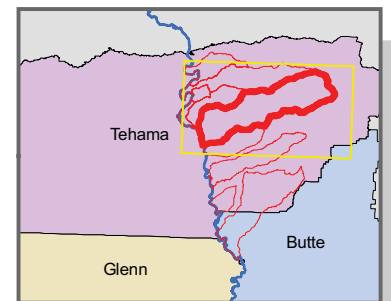
Tehama County Resource Conservation District
(c) 2010

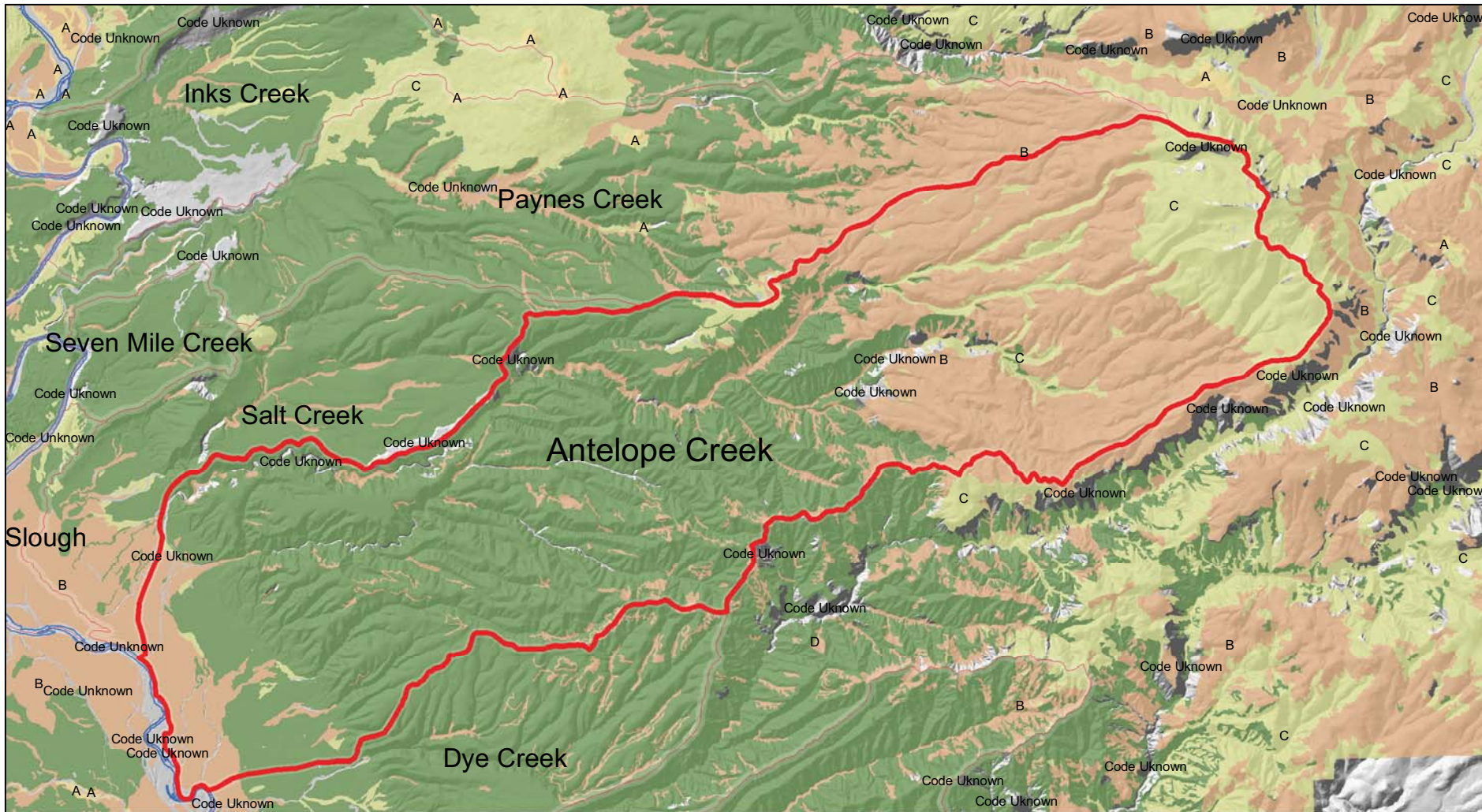


KEY



Watershed Boundary



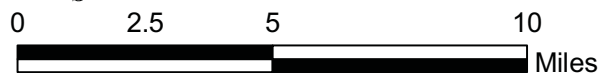


Tehama East Watershed Assessment

NRCS Soils Hydrologic Group
Antelope Creek



Tehama County Resource Conservation District
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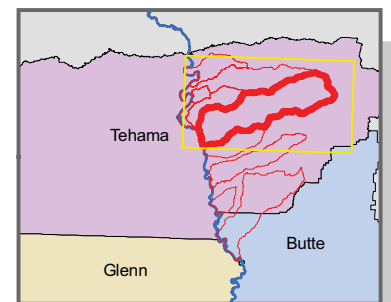
KEY

Hydrologic Group

- A
- B
- C
- D

Code Unknown

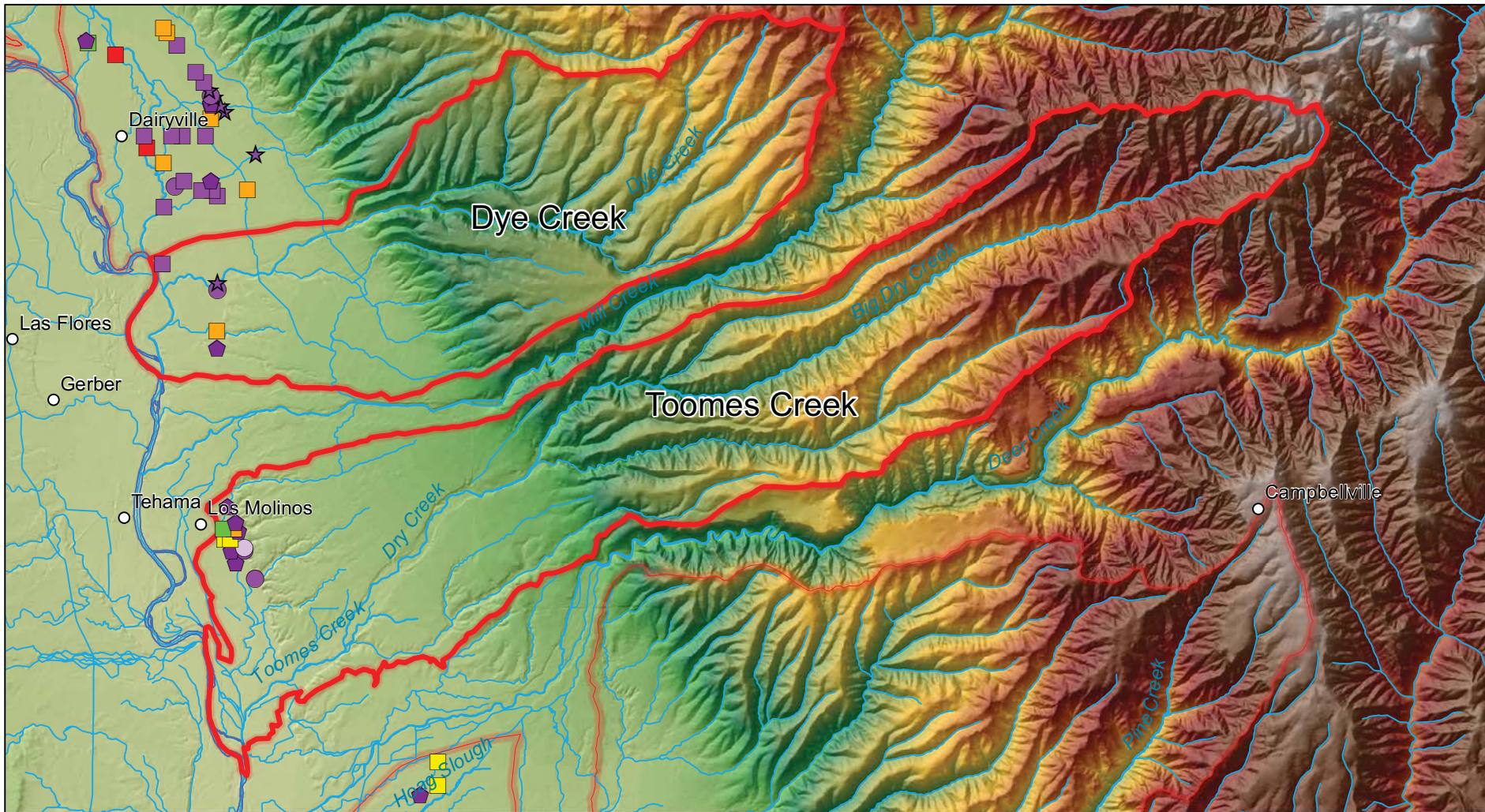
Watershed Boundary



Maps by Watersheds

Dye and Toomes Creek Watersheds

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Soils: Highly Erodible Lands	338
Soils: Hydric Soils	339
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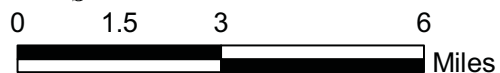


Tehama East Watershed Assessment

Bridges, Culverts, Pipes,
and Slabs
Dye and Toomes Creeks



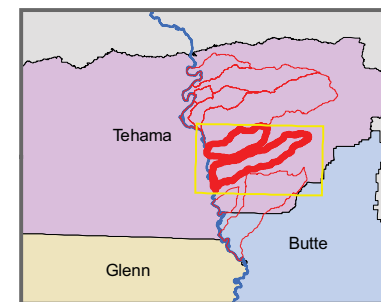
Tehama County Resource Conservation District
(c) 2010

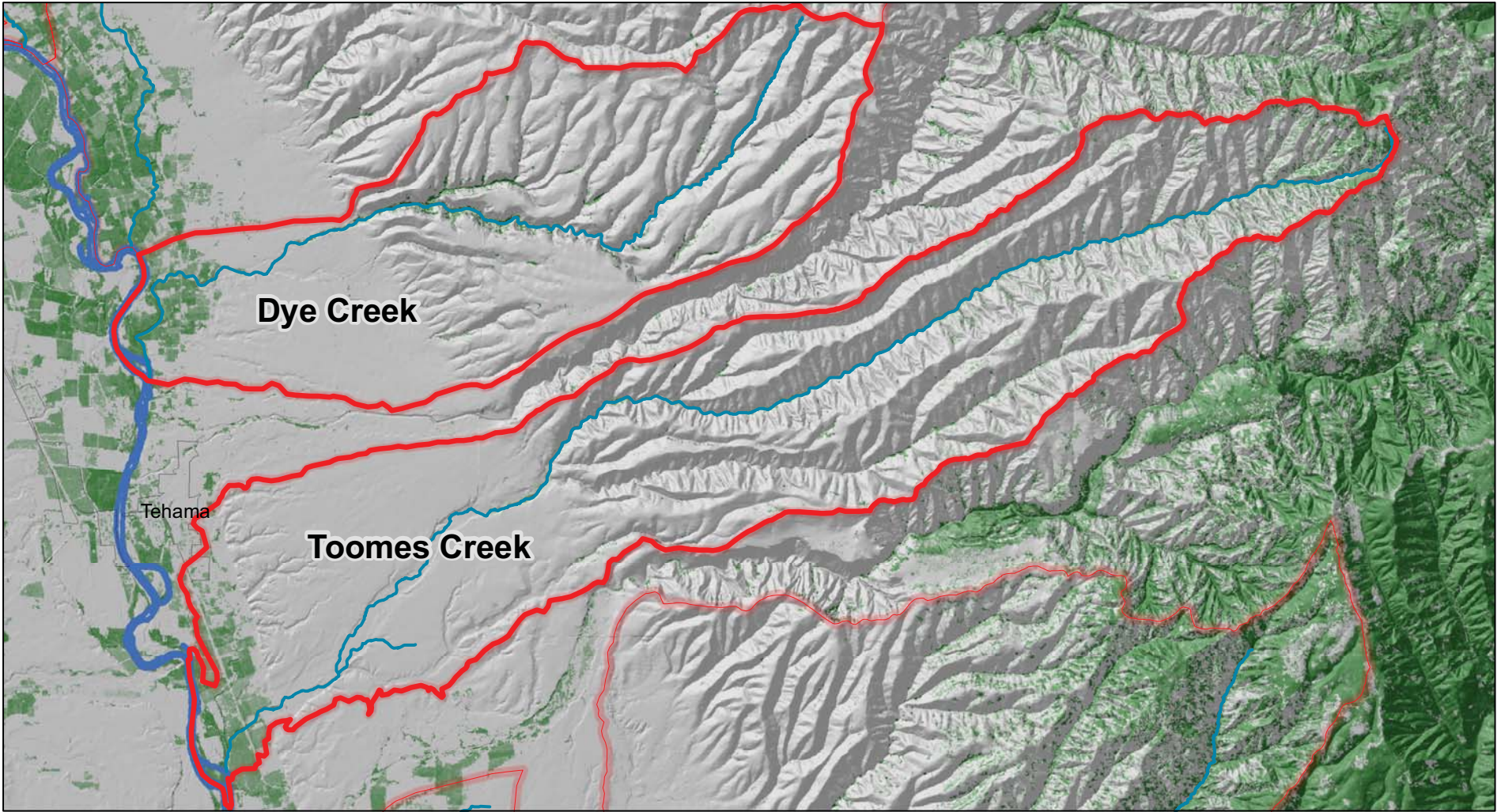


KEY

- | | |
|----------------------------|----------------------------|
| ■ Bridge-Abandoned | ◆ Culvert-Green |
| ■ Bridge-Green | ◀ Culvert-Orange/Green |
| ■ Bridge-Orange | ◆ Culvert-Purple |
| ■ Bridge-Purple | ◆ Culvert-Yellow |
| ▶ Bridge-Purple/Green | ○ Pipe-Purple (Non County) |
| ▶ Bridge-Purple/Orange | ● Pipe-Abandoned |
| ■ Bridge-Red | ● Pipe-Purple |
| ■ Bridge-Yellow | ★ Slab-Abandoned |
| ★ Bridge-Yellow (One Lane) | ★ Slab-Purple |

Watershed Boundary





Tehama East Watershed Assessment

CANOPY COVER
Dye and Toomes Creeks

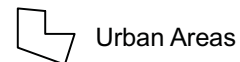
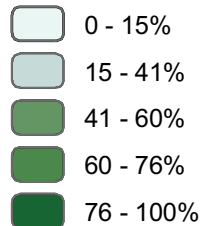


Tehama County Resource Conservation District

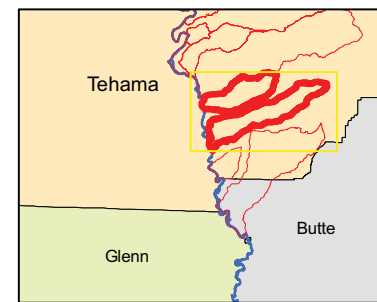
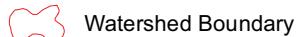
(c) 2010

KEY

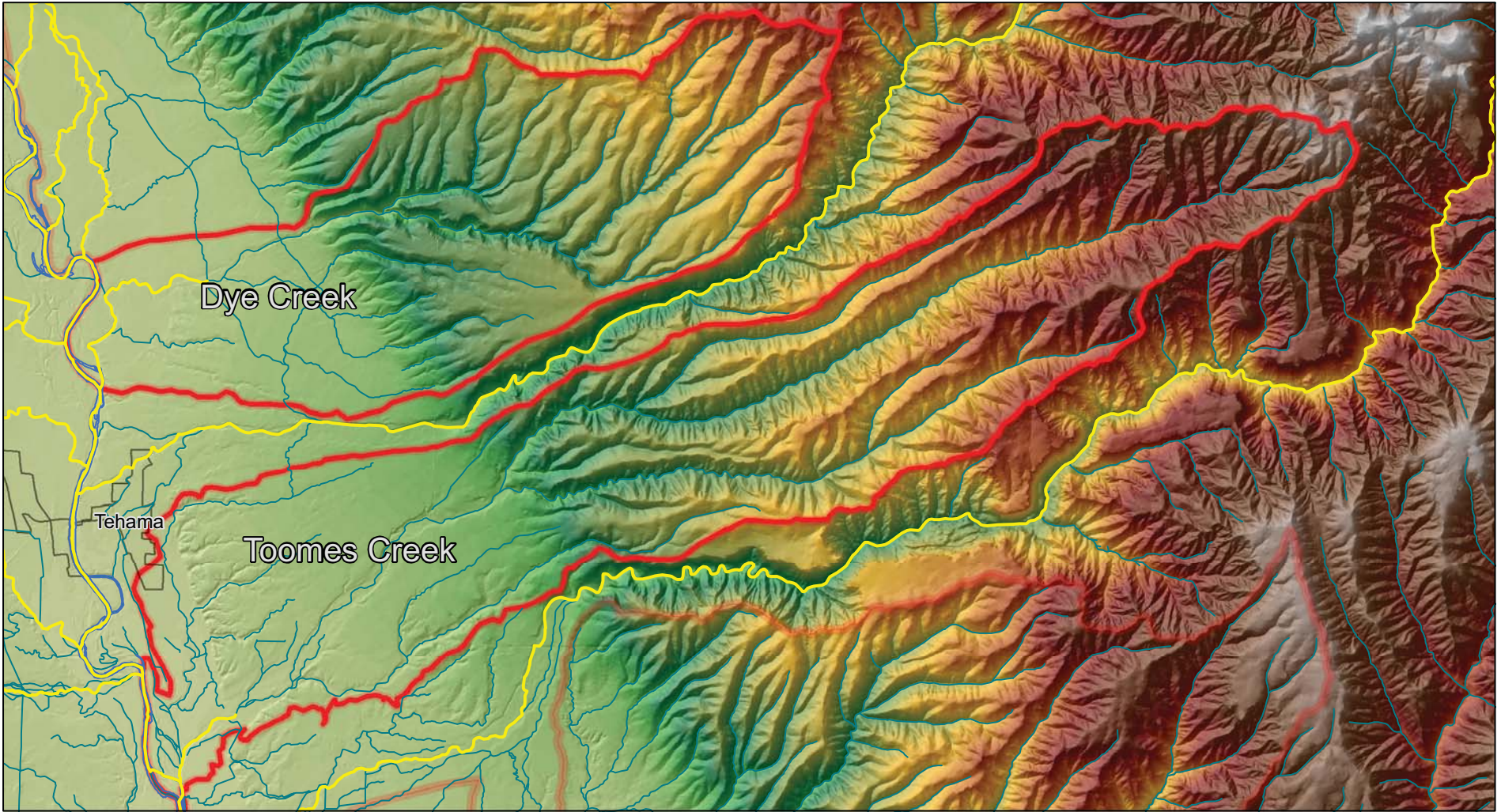
Canopy Cover Percent



Streams/Rivers



<http://seamless.usgs.gov/products/nlcd01.php>

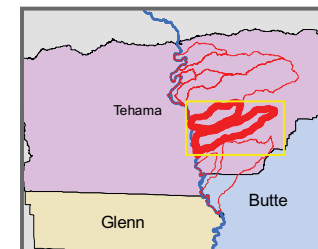


Tehama East Watershed Assessment

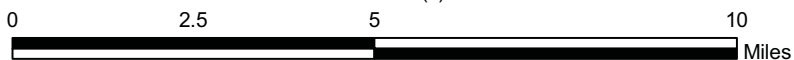
Critical Habitat - Spring-Run Chinook
Dye Creek and Toomes Creek

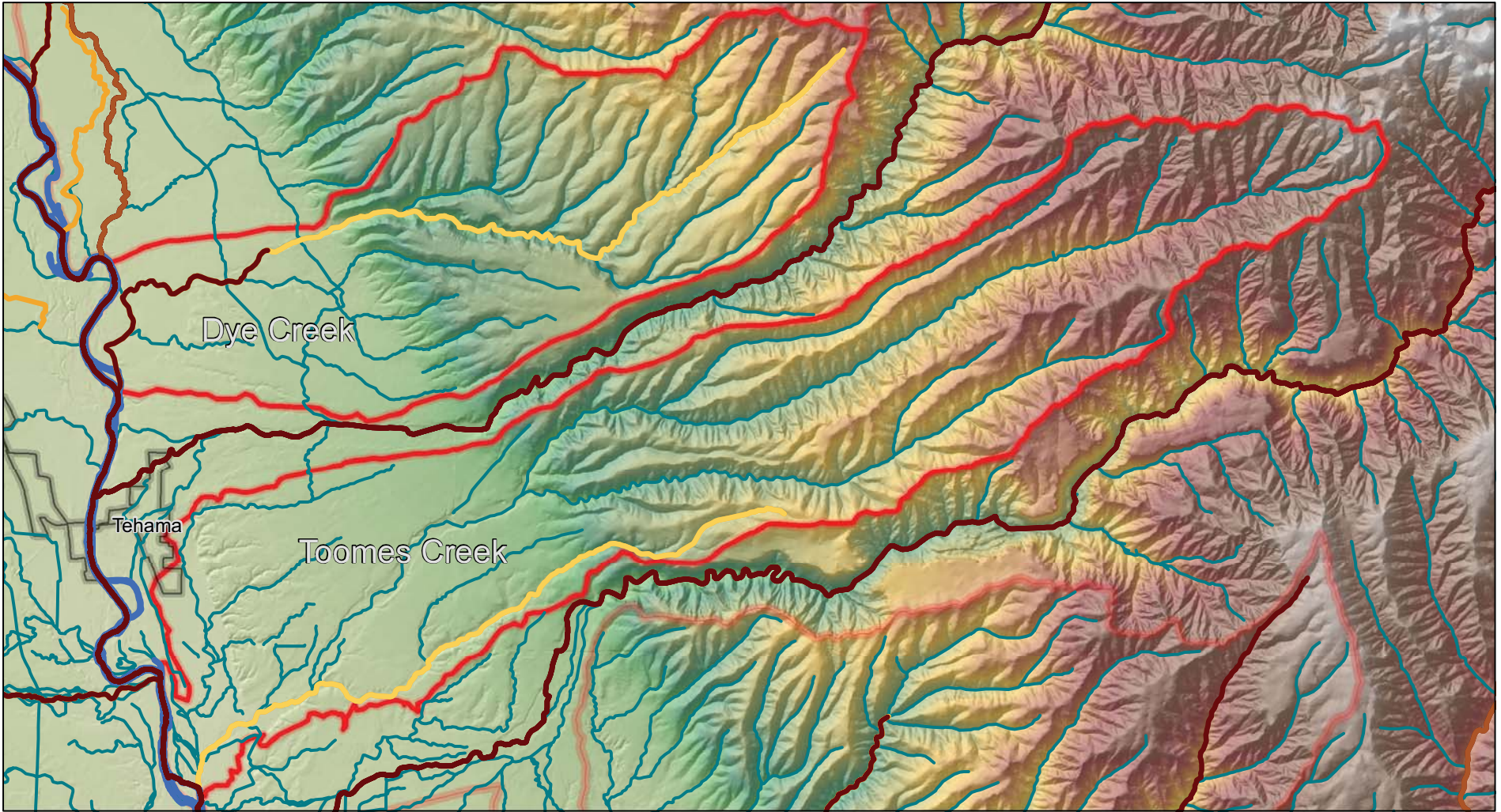
KEY

- Critical Habitat - Spring-Run Chinook
- Springs/Rivers
- Urban Areas
- Watershed Boundary



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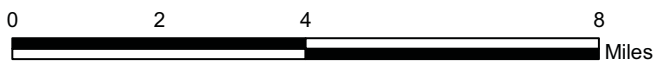


Tehama East Watershed Assessment




Chinook Surveys By Year
Dye Creek and Toomes Creek



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(c)2010

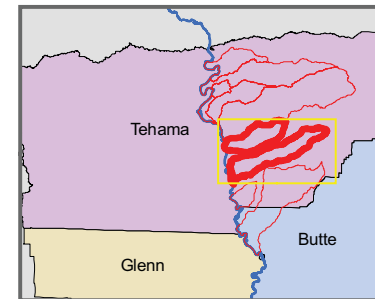


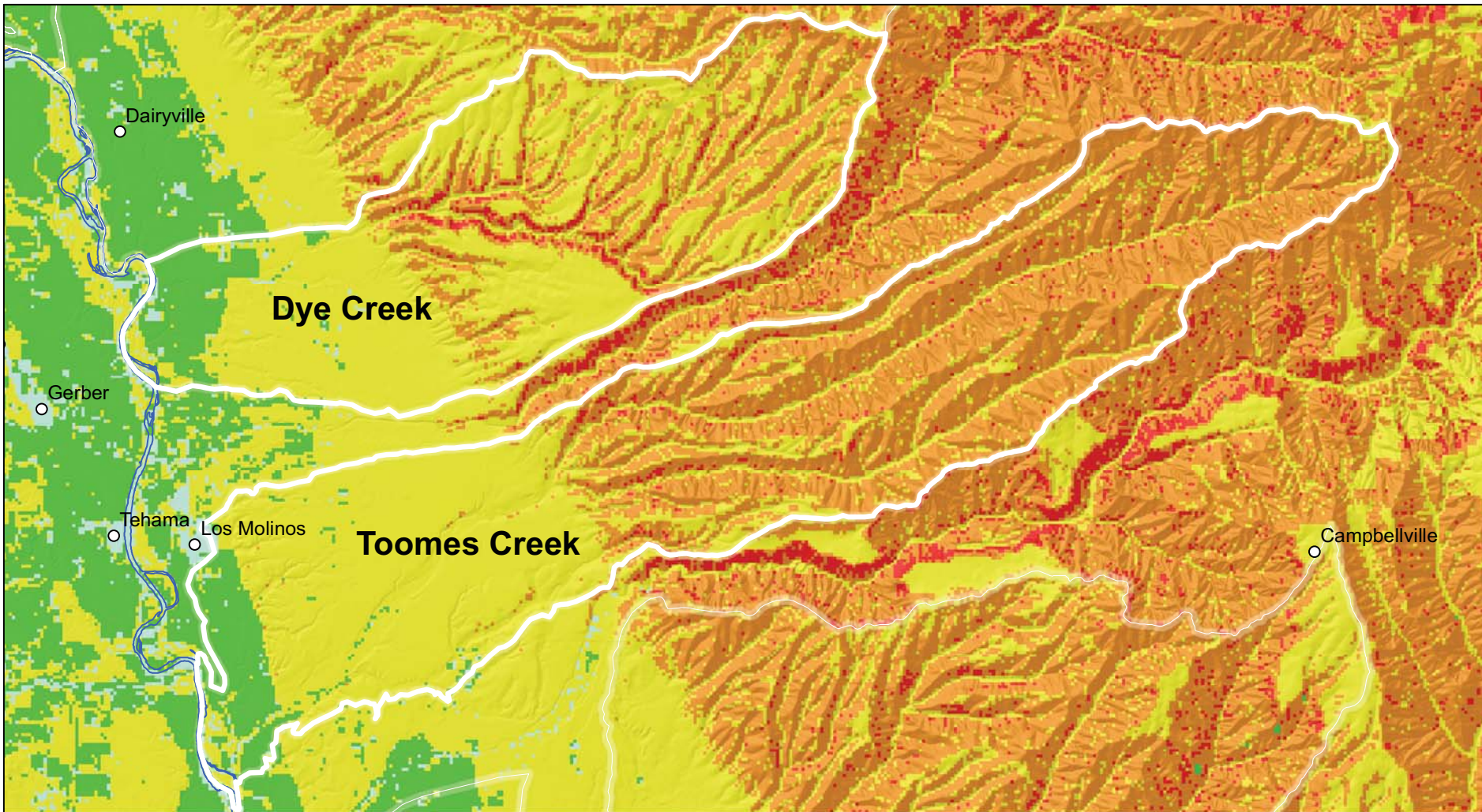
KEY

-  Streams/Rivers
-  Urban Areas
-  Watershed Boundary

Year of Survey

-  1959 - 1970
-  1971 - 1986
-  1987 - 1993
-  1994 - 1998
-  1999 - 2003



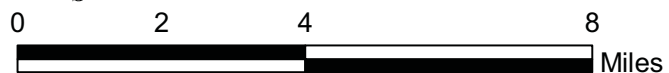


Tehama East Watershed Assessment

Post-fire Erosion Potential Dye and Toomes Creeks








Tehama County Resource Conservation District
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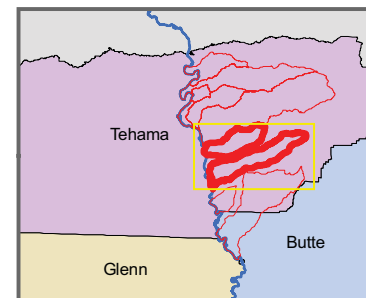
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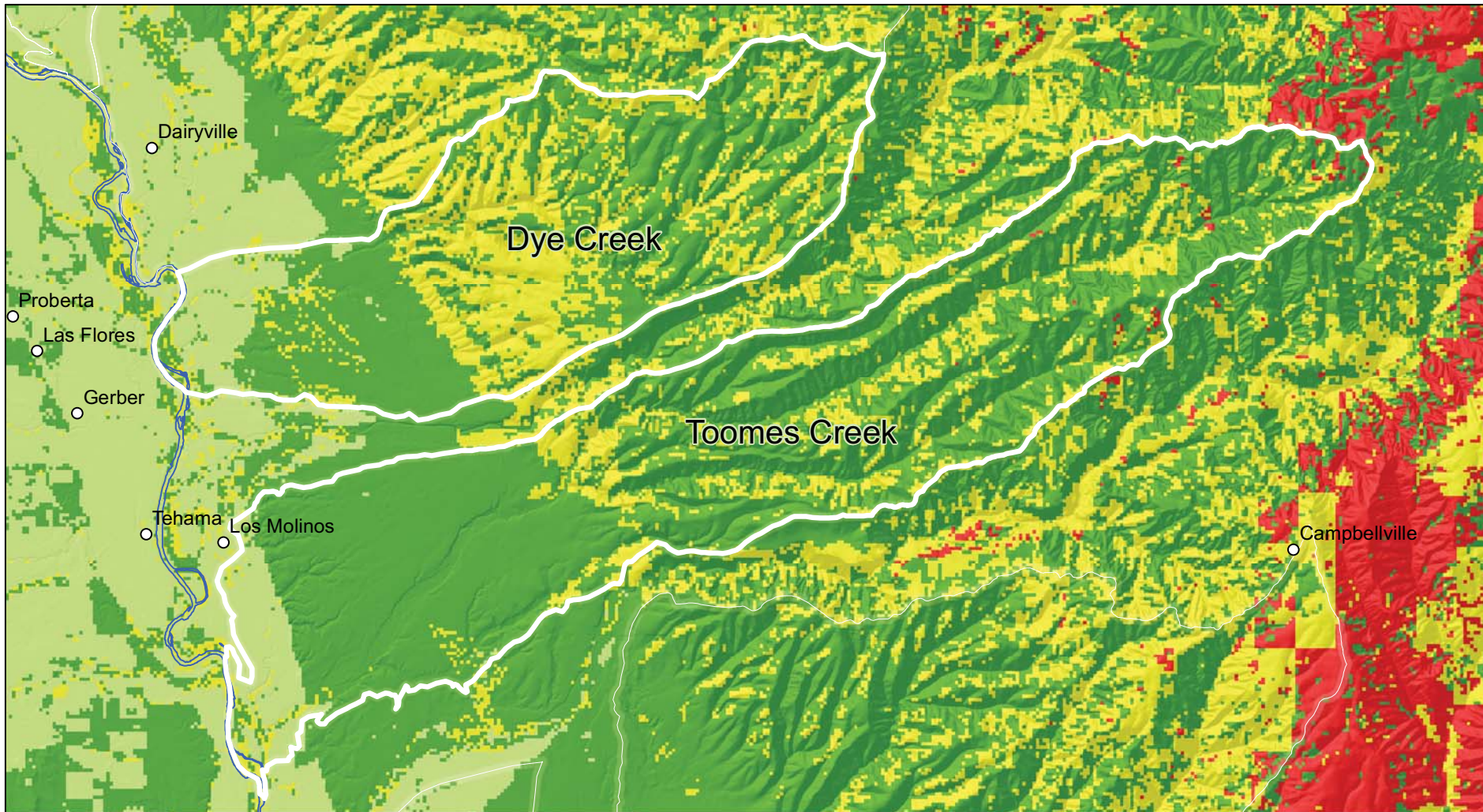
Erosion Classification

-  -1 : Areas without a Fuel Rank (generally Ag or Barren)
-  0 : Water and Urban areas outside scope of analysis
-  1 : Low
-  2 : Moderate
-  3 : High

<http://frap.cdf.ca.gov/data/frapgisdata/download.asp?spatialdist=1&rec=perod>

 Watershed Boundary





Tehama East Watershed Assessment

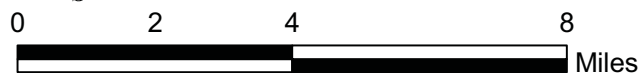
Fire Regime and Condition Class

Condition Class

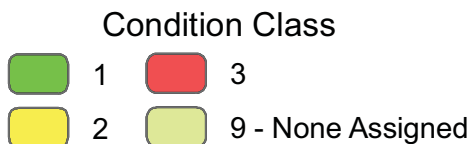
Dye and Toomes Creeks



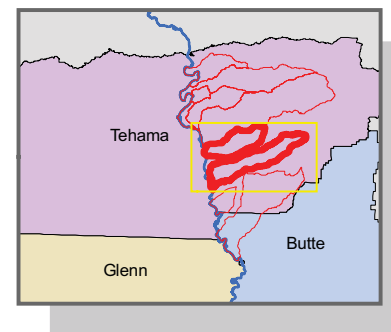
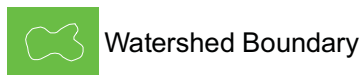
Tehama County Resource Conservation District
(c) 2010

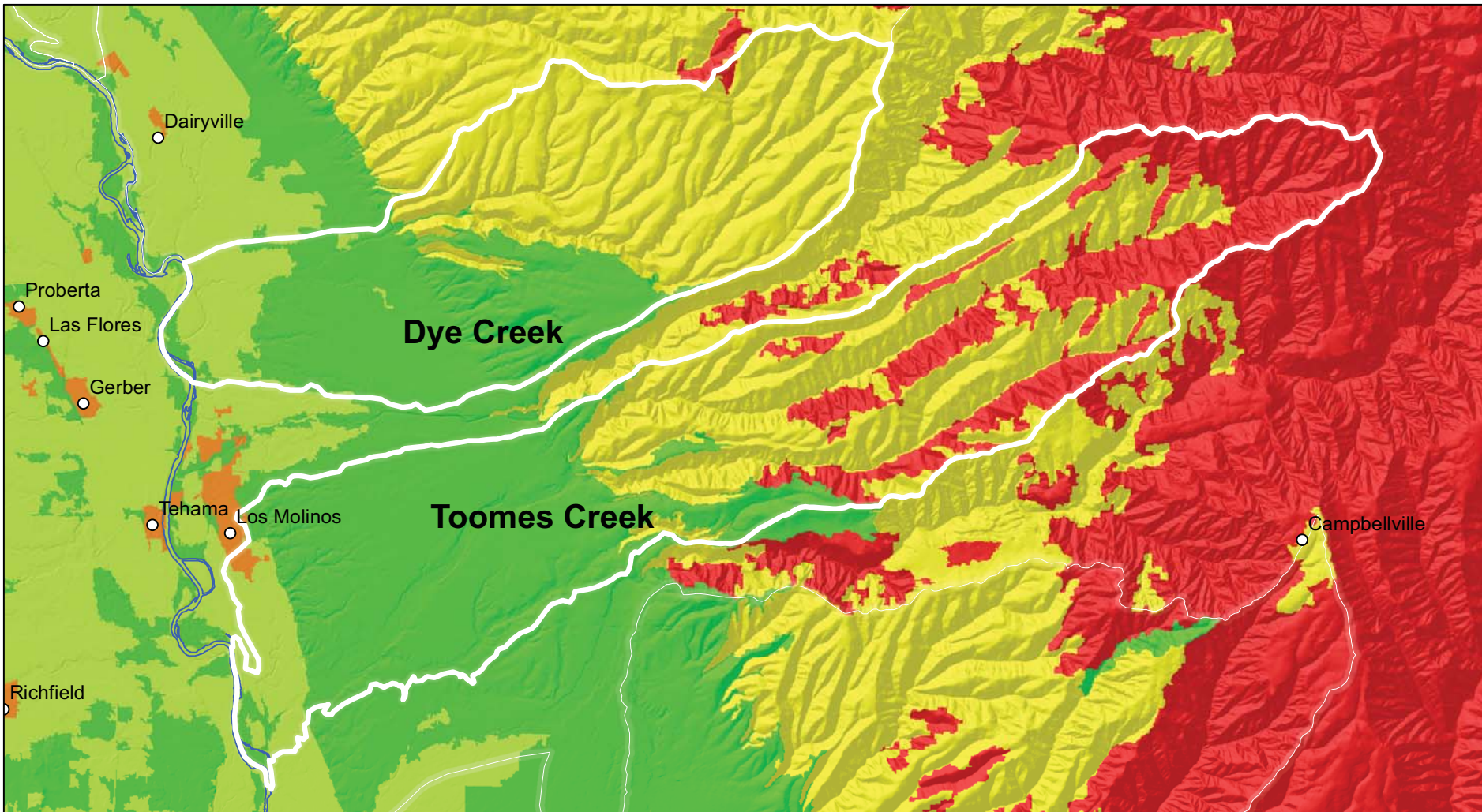


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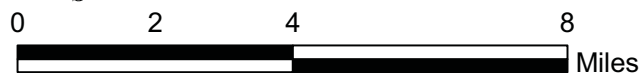


Tehama East Watershed Assessment

Fire Hazard Severity Zoning
2007 DRAFT - FRAP
Dye and Toomes Creeks



Tehama County Resource Conservation District
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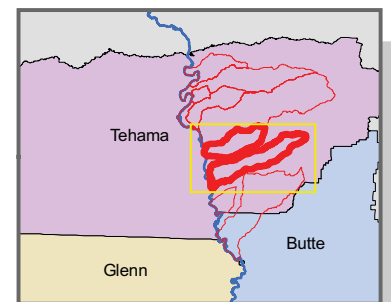


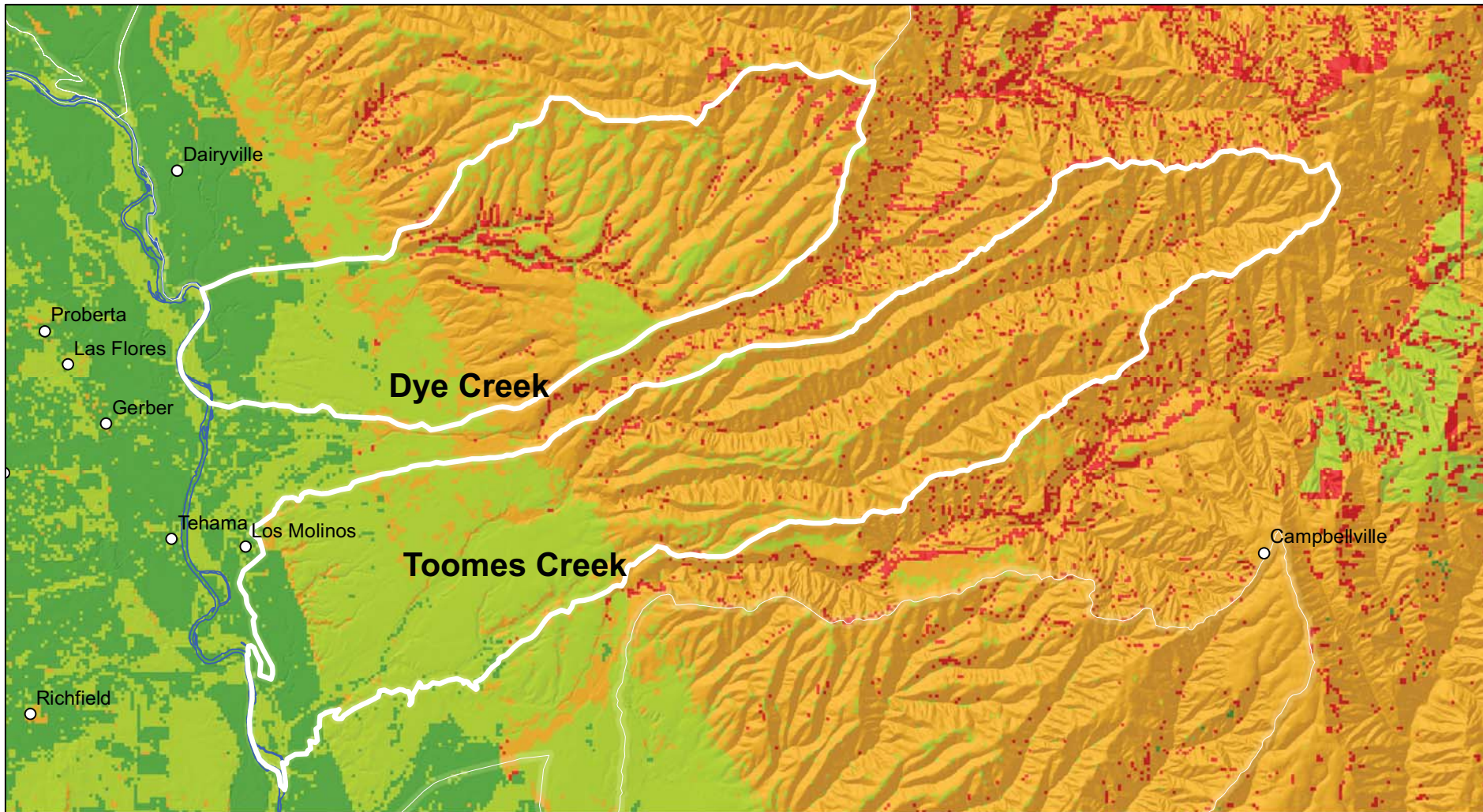
KEY

Hazard Class

- Moderate
- High
- Very High
- Non-Wildland/Non-Urban
- Urban Unzoned

Watershed Boundary



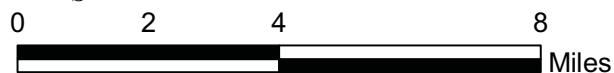


Tehama East Watershed Assessment

Fire Regime and Condition Class
Fuel Ranking
Dye and Toomes Creeks



Tehama County Resource Conservation District
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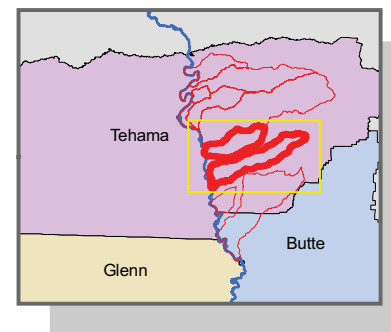
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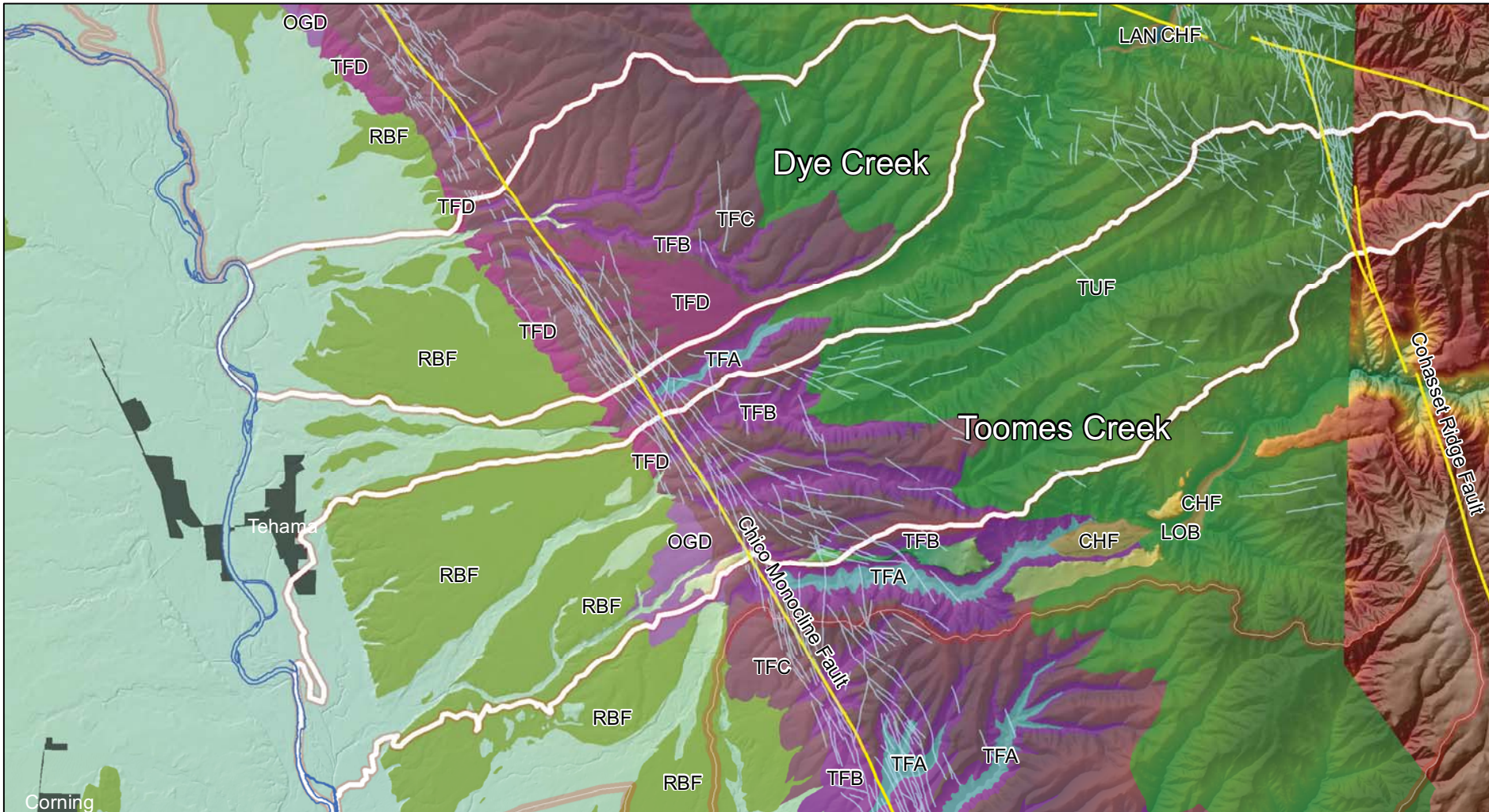
Fuel Ranking

- 1 - Little or No Hazard
- 1 - Moderate Hazard
- 2 - High Hazard
- 3 - Very High Hazard

<http://frap.cdf.ca.gov/data/fraggisdata/download.asp?spatialdist=1&rec=cafrcc>

Watershed Boundary





Tehama East Watershed Assessment

Selected Geological Formations, Fault Lines and Monoclines Dye and Toomes Creeks

Legend

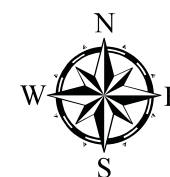
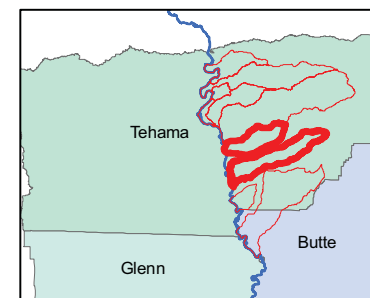
Selected Geology

- | | |
|---|--|
| CHF Chico Formation | TAI Tailings |
| CBB Cinder Cone Deposits, Black Butte | TEH Tehama Formation |
| CDB Cinder Cone Deposits, Digger Butte | TUF Tuscan Formation |
| CIH Cinder Cone Deposits, Inskipp Hill | TFU Tuscan Formation, Undifferentiated Unit A & B |
| LAN Landslides | TFA Unit A, Tuscan Formation |
| LOB Lovejoy Basalt | TFB Unit B, Tuscan Formation |
| NTM Nomlaki Tuff Member | TFC Unit C, Tuscan Formation |
| OGD Older Gravel Deposits | TFD Unit D, Tuscan Formation |
| RBF Red Bluff Formation | |

- ∟ Chico Monocline Lineaments
- ∟ Fault Lines

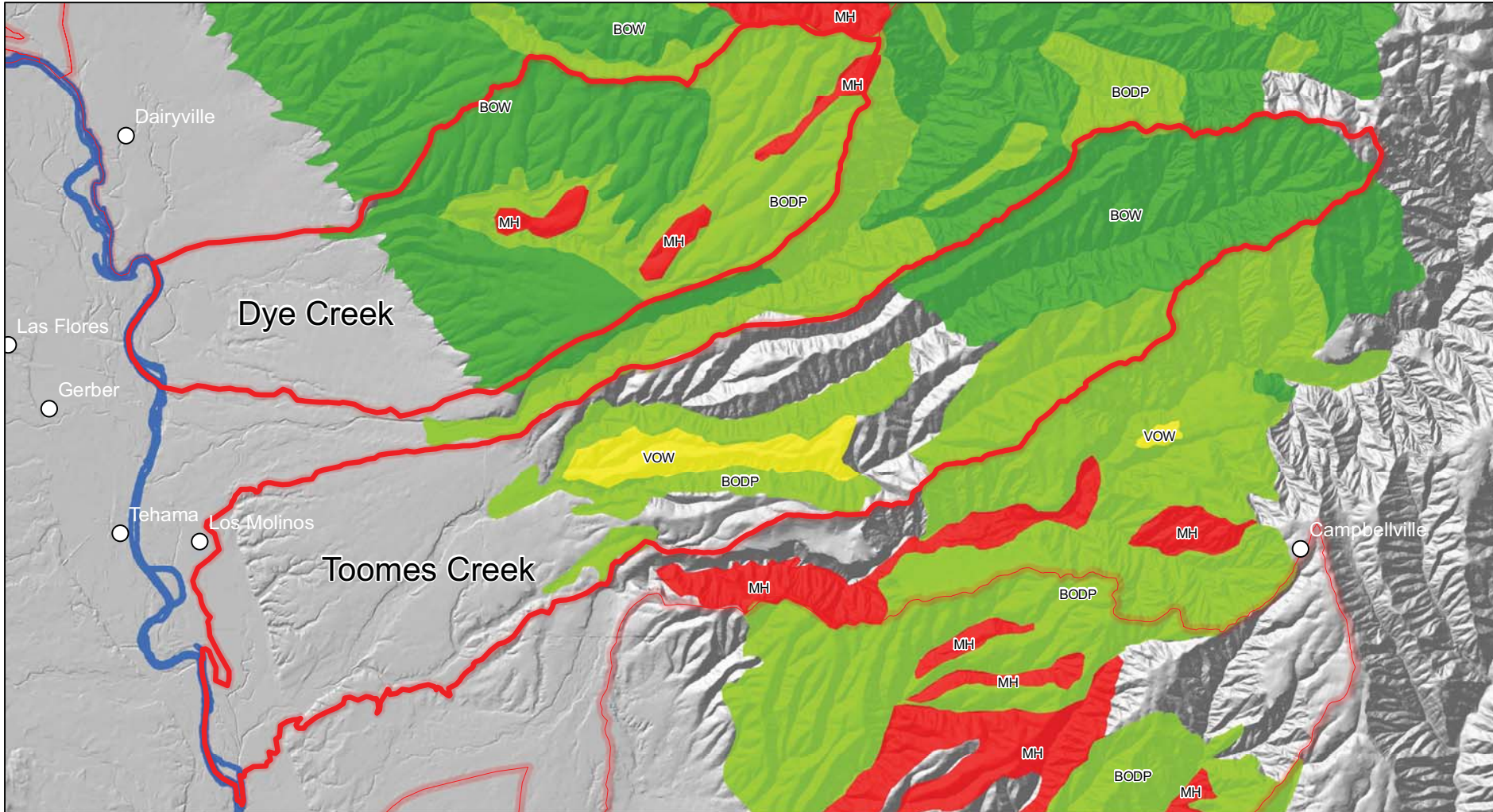
<http://projects.atlas.ca.gov/projects/sacvalleygeol>

- + Urban Areas
- Watershed Boundary



4/2010



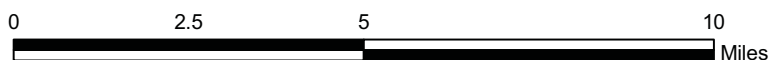


Tehama East Watershed Assessment

Hardwood Rangelands Dye Creek and Toomes Creek



Tehama County Resource Conservation District
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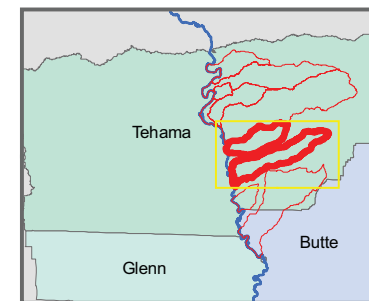
KEY

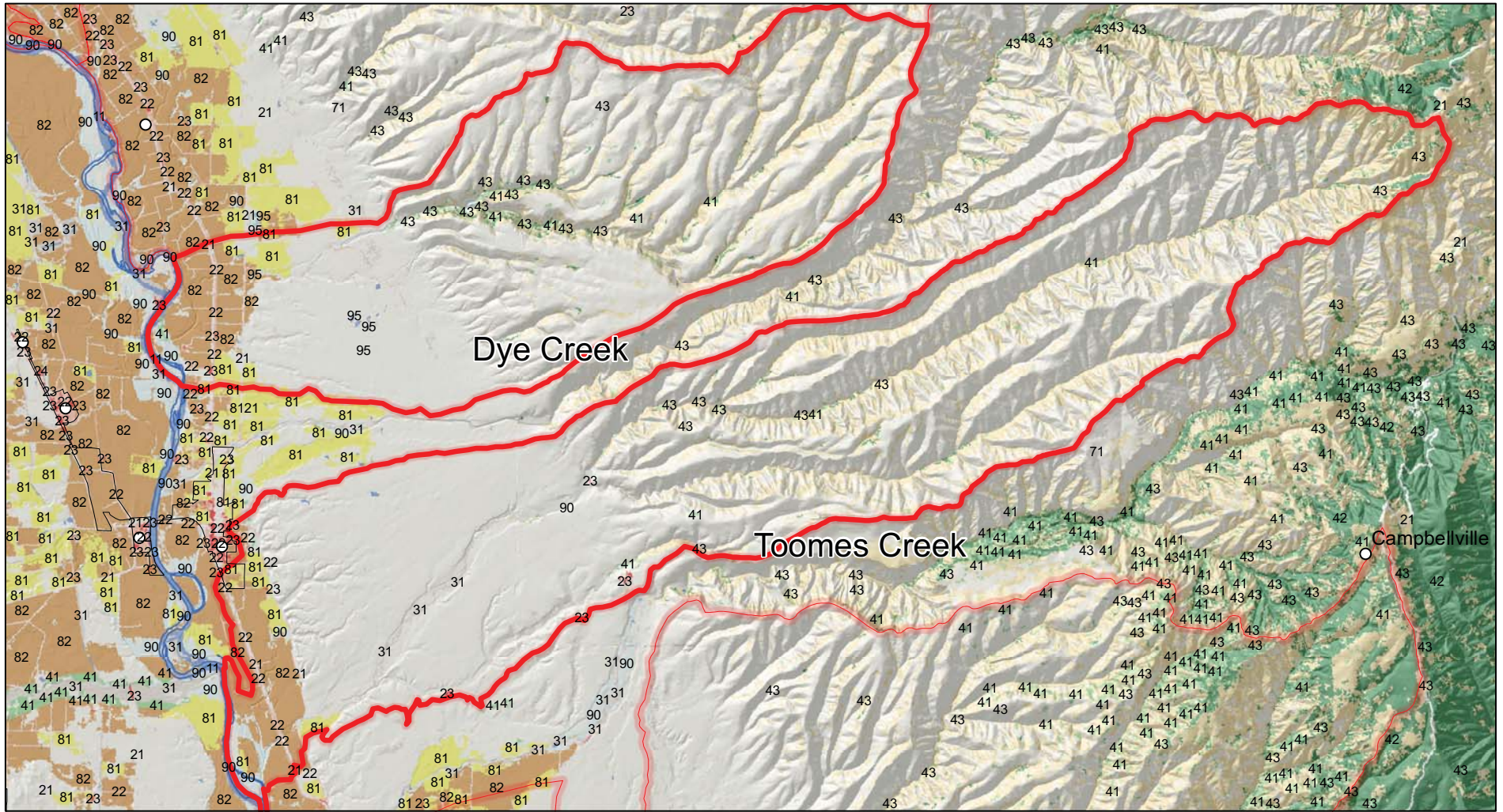
Cover Type

- BODP - Blue Oak \ Foothill Pine
- BOW - Blue Oak Woodland
- MH - Montane Hardwoods
- OTHER - Non-Hardwood
- VOW - Valley Oak Woodland

<http://frap.cdf.ca.gov/data/fraggisdata/download.asp?rec=hardwoods>

- Watershed Boundary
- Streams/Rivers
- Communities



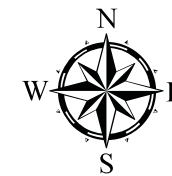
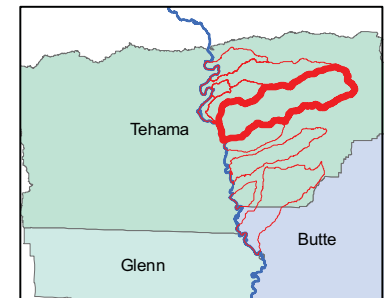


Tehama East Watershed Assessment

Land Cover National Land Cover Database Dye and Toomes Creeks

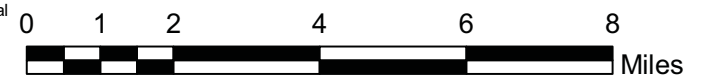
Legend

- | | | |
|----------------------------------|-----------------------------------|--------------------|
| 11 - Open Water | 52 - Shrub/Scrub | Urban Areas |
| 21 - Developed, Open Space | 71 - Grasslands/Herbaceous | Watershed Boundary |
| 22 - Developed, Low Intensity | 81 - Pasture/Hay | |
| 23 - Developed, Medium Intensity | 82 - Cultivated Crops | |
| 24 - Developed, High Intensity | 90 - Woody Wetlands | |
| 31 - Bare Rock/Sand/Clay | 95 - Emergent Herbaceous Wetlands | |
| 41 - Deciduous Forest | | |
| 42 - Evergreen Forest | | |
| 43 - Mixed Forest | | |



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http://www.nrlc.gov/nlcd_multizone_map.php
Homer, C. C. Huang, L. Yang, B. Wylie and M. Coan. 2004. Development of a 2001 National Landcover Database for the United States. Photogrammetric Engineering and Remote Sensing, Vol. 70, No. 7, July 2004, pp. 829-840.



Tehama East Watershed Assessment

Land Use - Agriculture

Department of Water Resources
Dye Creek and Toomes Creek

KEY

Land Use - Agriculture

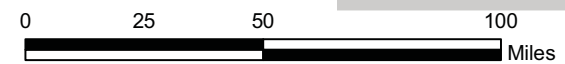
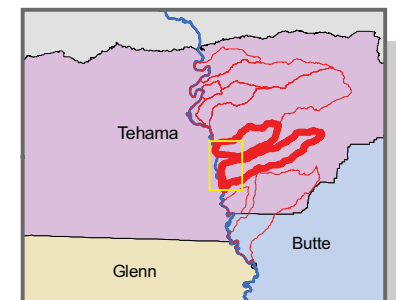
- | | |
|--------------------------------------|--|
| C3 - Oranges | I1 - Land not cropped for the last 3 years |
| C6 - Olives | I2 - New lands being prepared for crops |
| C7 - Miscellaneous Subtropical Fruit | P1 - Alfalfa & alfalfa mixtures |
| C8 - Kiwis | P2 - Clover |
| C10 - Eucalyptus | P3 - Mixed Pasture |
| D1 - Apples | P4 - Native Pasture |
| D2 - Apricots | P5 - Induced High Water Table Nat. Pas. |
| D3 - Cherries | P7 - Turf Farms |
| D5 - Peaches and Nectarines | P - Pasture ** |
| D6 - Pears | R - Rice |
| D8 - Prunes | R - Rice ** |
| D9 - Figs | T2 - Asparagus |
| D10 - Miscellaneous Deciduous | T9 - Melons, squash, and cucumbers |
| D12 - Almonds | T10 - Onions and Garlic |
| D13 - Walnuts | T15 - Tomatoes |
| D14 - Pistachios | T16 - Flowers, Nursery & Tree Farms |
| F - Field Crops | T18 - Miscellaneous Truck Farms |
| F1 - Cotton | T19 - Bush Berries |
| F2 - Safflower | T20 - Strawberries |
| F3 - Flax | V - Vineyards |
| F5 - Sugar Beets | V2 - Wine Grapes |
| F6 - Corn, Field & Sweet | V - Vineyards ** |
| F8 - Sudan | |
| F - Field Crops ** | |
| F10 - Beans, Dry | |
| F11 - Miscellaneous Field | |
| F12 - Sunflowers | |
| G - Grain & Hay Crops | |
| G1 - Barley | |
| G2 - Wheat | |
| G3 - Oats | |
| G6 - Miscellaneous Grain & Hay | |
| G - Grain & Hay Crops ** | |

** No specific crop was assigned.

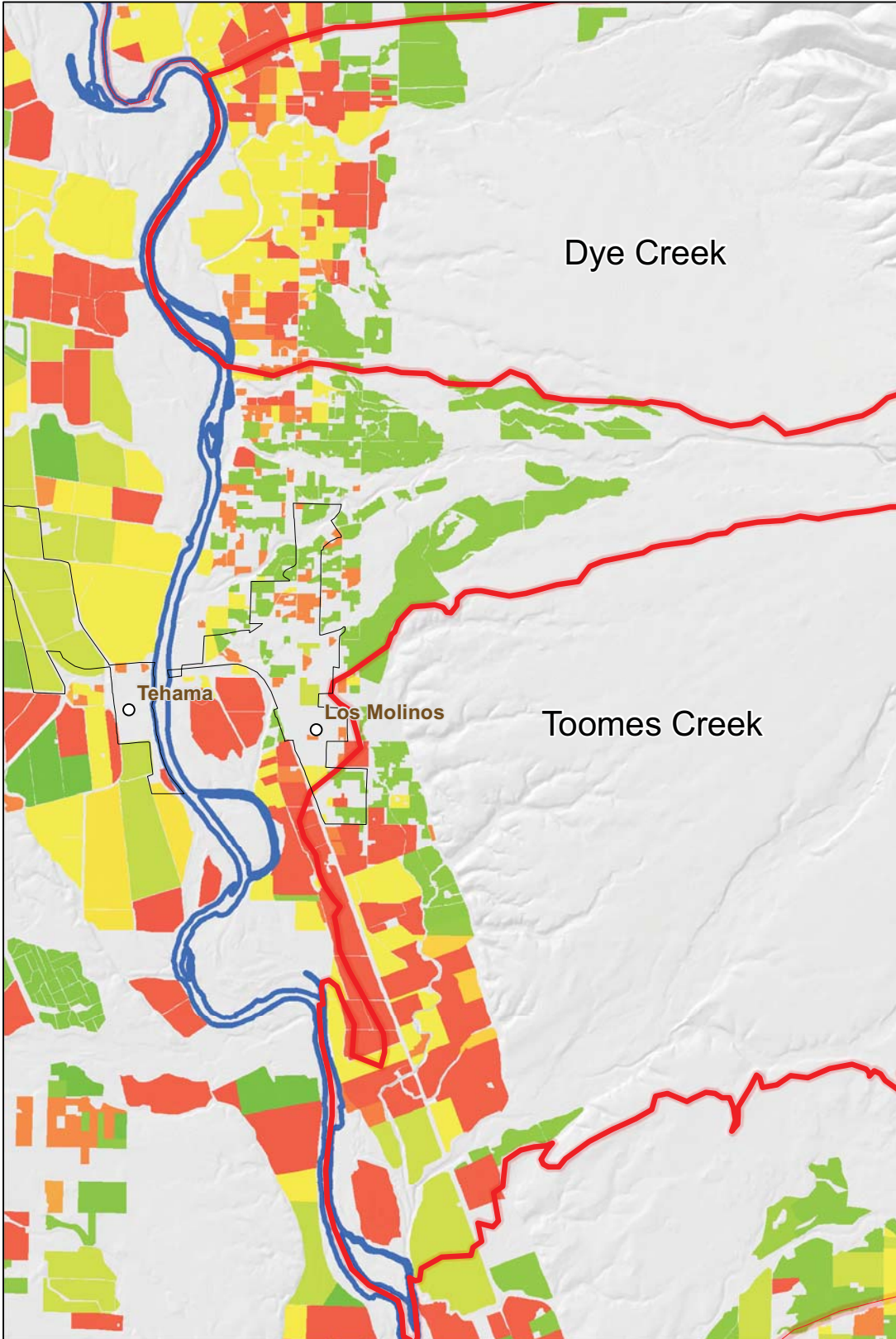
<http://www.water.ca.gov/landwateruse/lusrvmain.cfm>

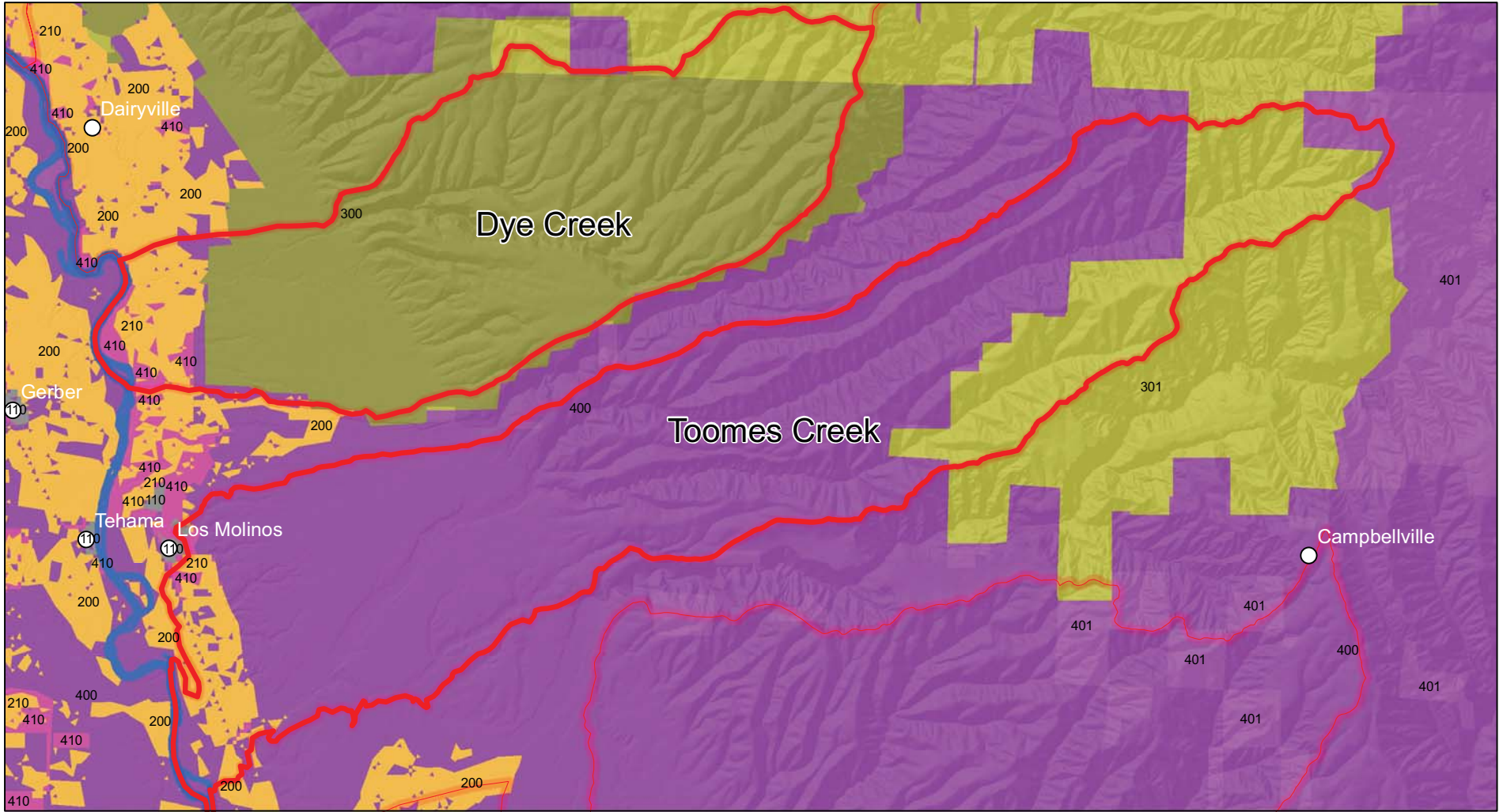
Urban Areas

Watershed Boundary



Tehama County Resource Conservation District (c) 2010





**Tehama East
Watershed Assessment
Managementscapes
CalFire - FMMP (2000)
Dye Creek and Toomes Creek**

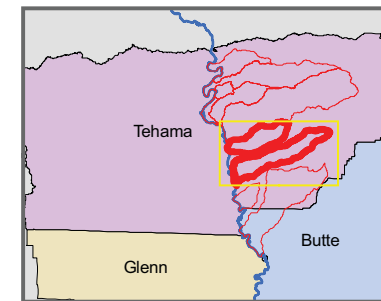


Tehama County Resource Conservation District
(c) 2010



Managementscape Grid Code

- 110 - URBAN/PRIVATE
- 111 - URBAN/PUBLIC
- 200 - AG/SPARSE RES/PRIVATE
- 201 - AG/SPARSE RES/PUBLIC
- 210 - AG/RURAL RES/PRIVATE
- 300 - RESERVE/SPARSE RES/PRIVATE
- 301 - RESERVE/SPARSE RES/PUBLIC
- 310 - RESERVE/RURAL RES/PRIVATE
- 311 - RESERVE/RURAL RES/PUBLIC
- 400 - WORKING/SPARSE RES/PRIVATE
- 401 - WORKING/SPARSE RES/PUBLIC
- 410 - WORKING/RURAL RES/PRIVATE
- 411 - WORKING/RURAL RES/PUBLIC



- Watershed Boundary
- Sacramento River
- Communities

<http://frap.cdf.ca.gov/data/frapgisdata/download.asp?rec=mgmtmscape>

Salt Creek

Antelope Creek

Dairyville

Dye Creek

Toomes Creek

Tehama

Los Molinos

Campbellville

Pine Creek

Hoag Slough

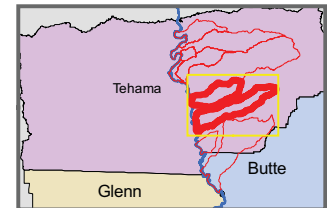
Tehama East Watershed Assessment

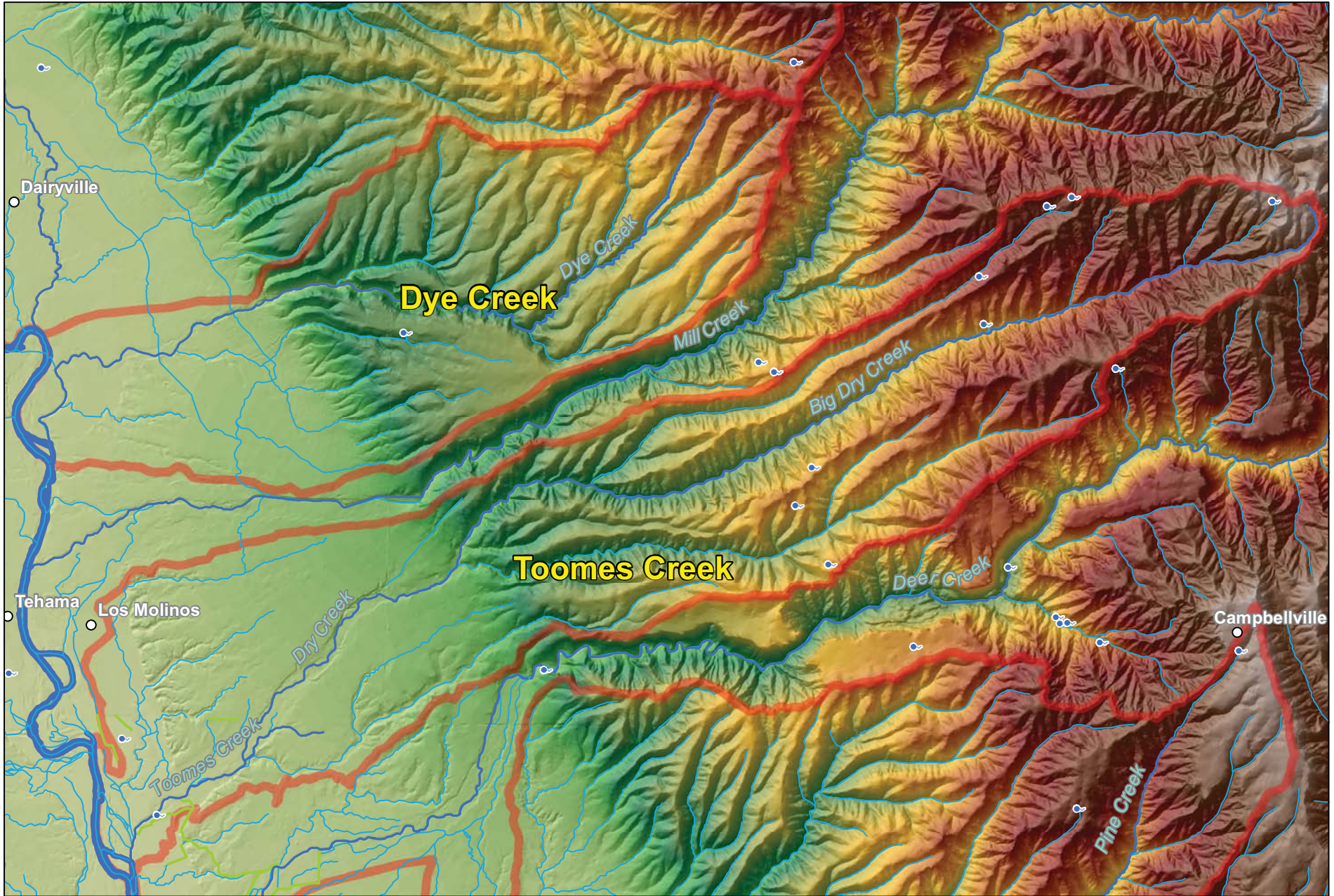
NAIP 2009

Dye and Toomes Creeks



Tehama County Resource Conservation District
(c) 2010










Tehama East Watershed Assessment

Water Features

National Hydrography Dataset - USGS
Dye Creek and Toomes Creek

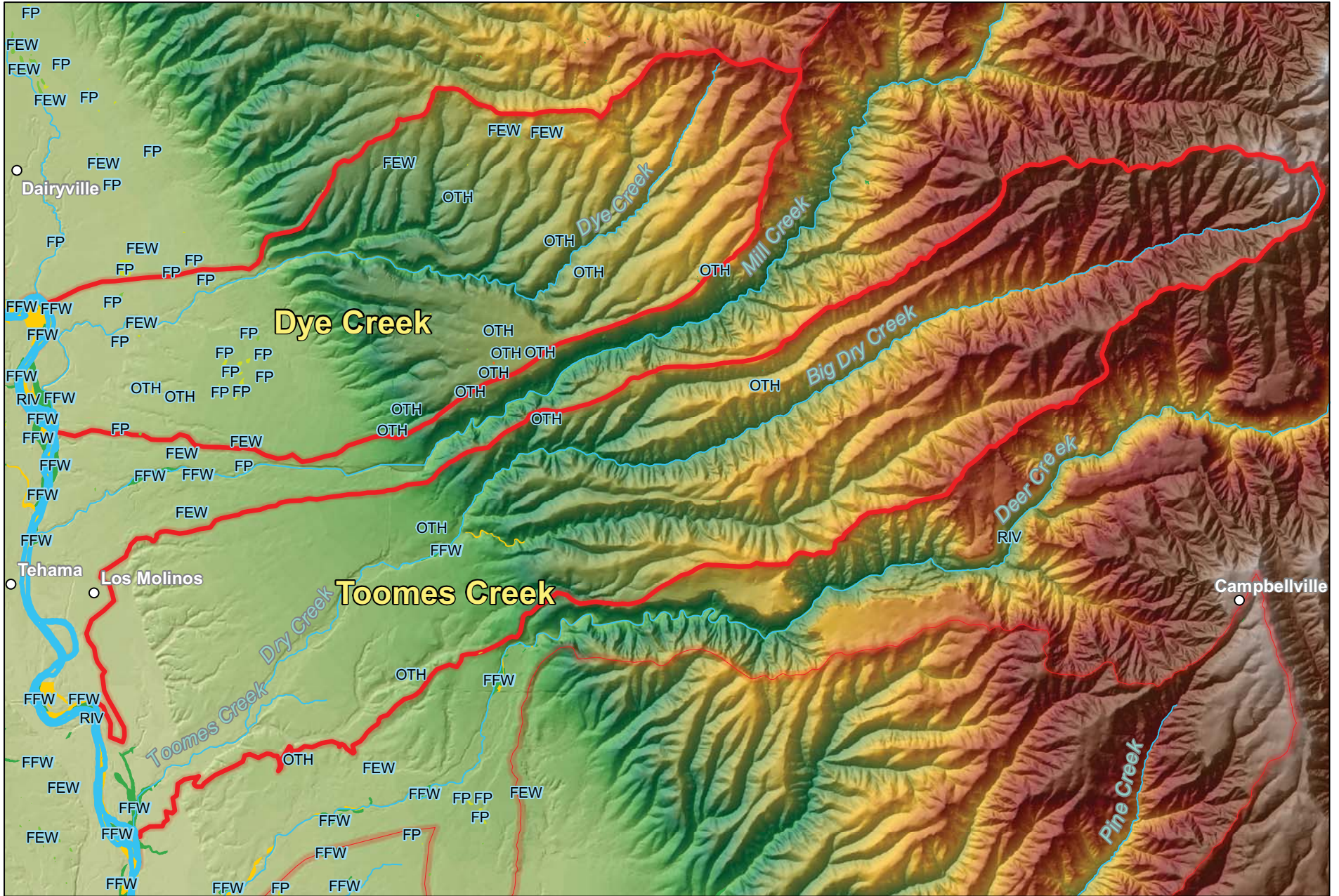
KEY

-  Springs
 -  Canal/Ditch
 -  Streams/Rivers
 -  Lake or Pond
 -  Watershed Boundary
- <http://nhd.usgs.gov/data.html>



Tehama County Resource Conservation District
(c) 2010





Tehama East Watershed Assessment

National Wetland Inventory
US Fish & Wildlife Service
Dye Creek and Toomes Creek

KEY

Wetland Type

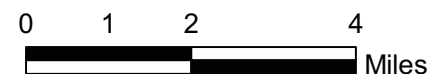
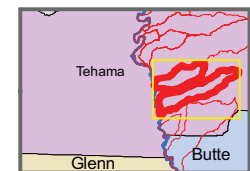
- FEW Freshwater Emergent Wetland
- FFW Freshwater Forested/Shrub Wetland
- FP Freshwater Pond
- LK Lake
- OTH Other
- RIV Riverine

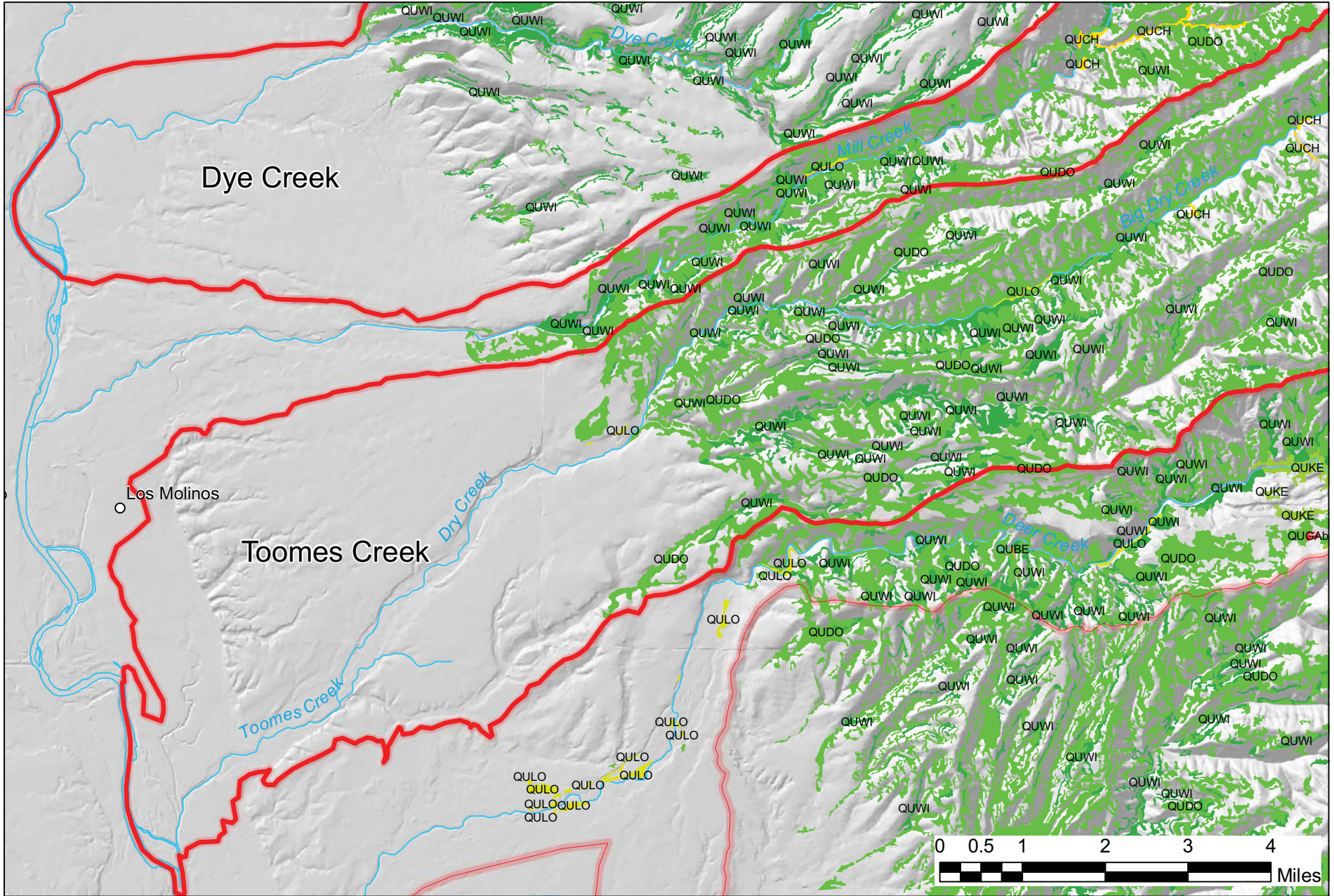
<http://www.fws.gov/wetlands/Data/DataDownload.html>

⬭ Watershed Boundary



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Conservation District
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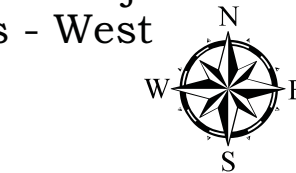
Tehama County Resource Conservation District (c)2010

Tehama East Watershed Assessment

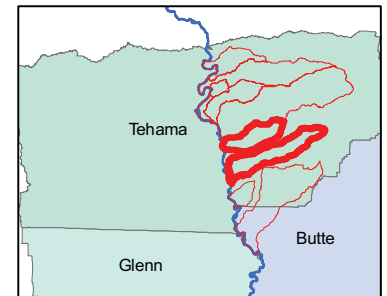
Oak Woodlands TNC, CNPS, TCRCD Special Project Dye and Toomes Creeks - West

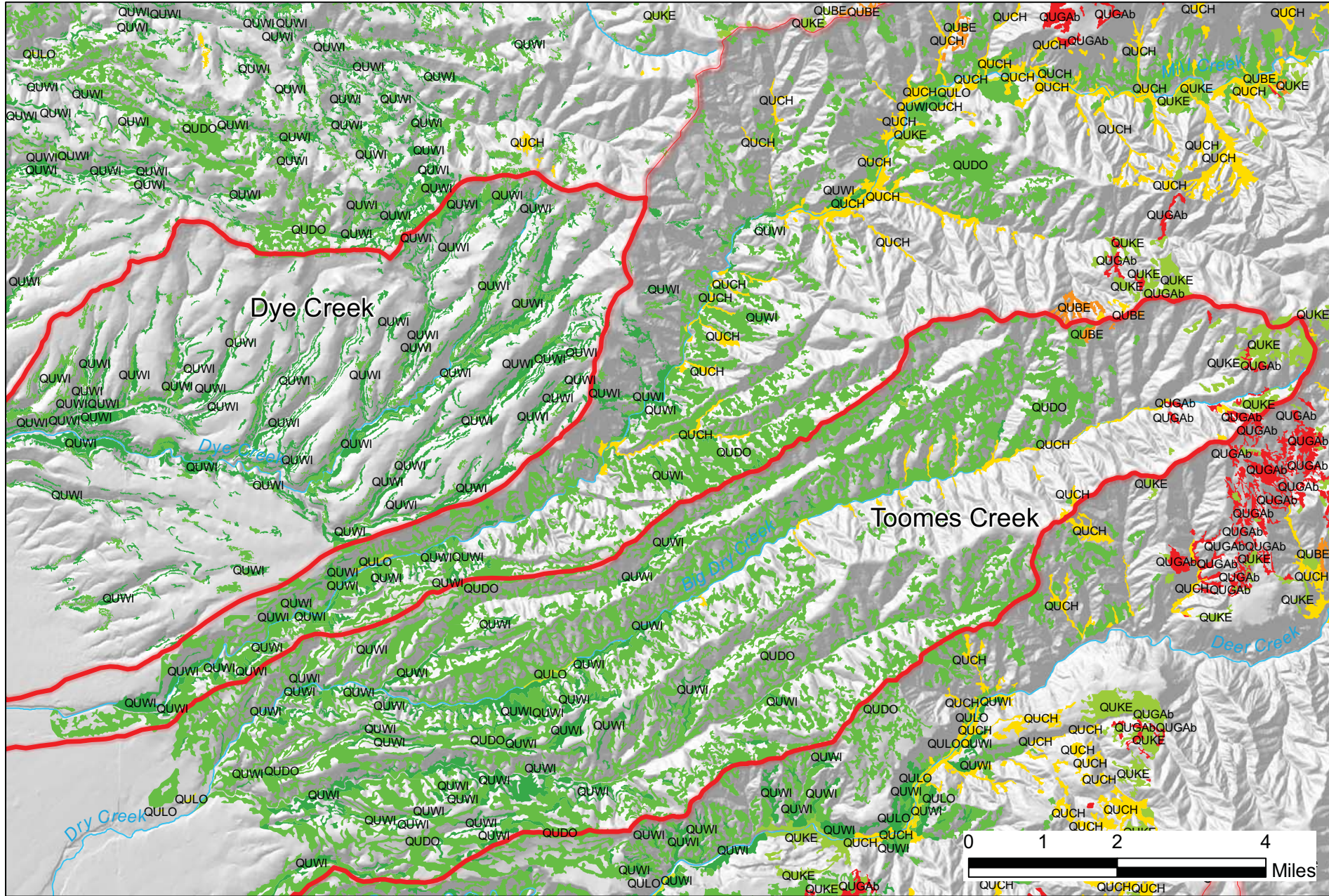
Legend

- QUWI Quercus wislizeni (Interior Live Oak Tree)
- QUCH Quercus chrysolepis (Canyon Live Oak)
- QUDO Quercus douglasii (Blue Oak)
- QUBE Quercus berberidifolia (scrub oak)
- QUKE Quercus kelloggii (Black Oak)
- QUDU Quercus durata (Leather Oak)
- QULO Quercus lobata (Valley Oak)
- QUGAb Quercus garryana/ var. breweri (Brewer Oak)



Watershed Boundary





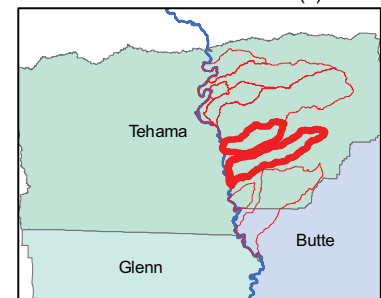
Tehama East Watershed Assessment

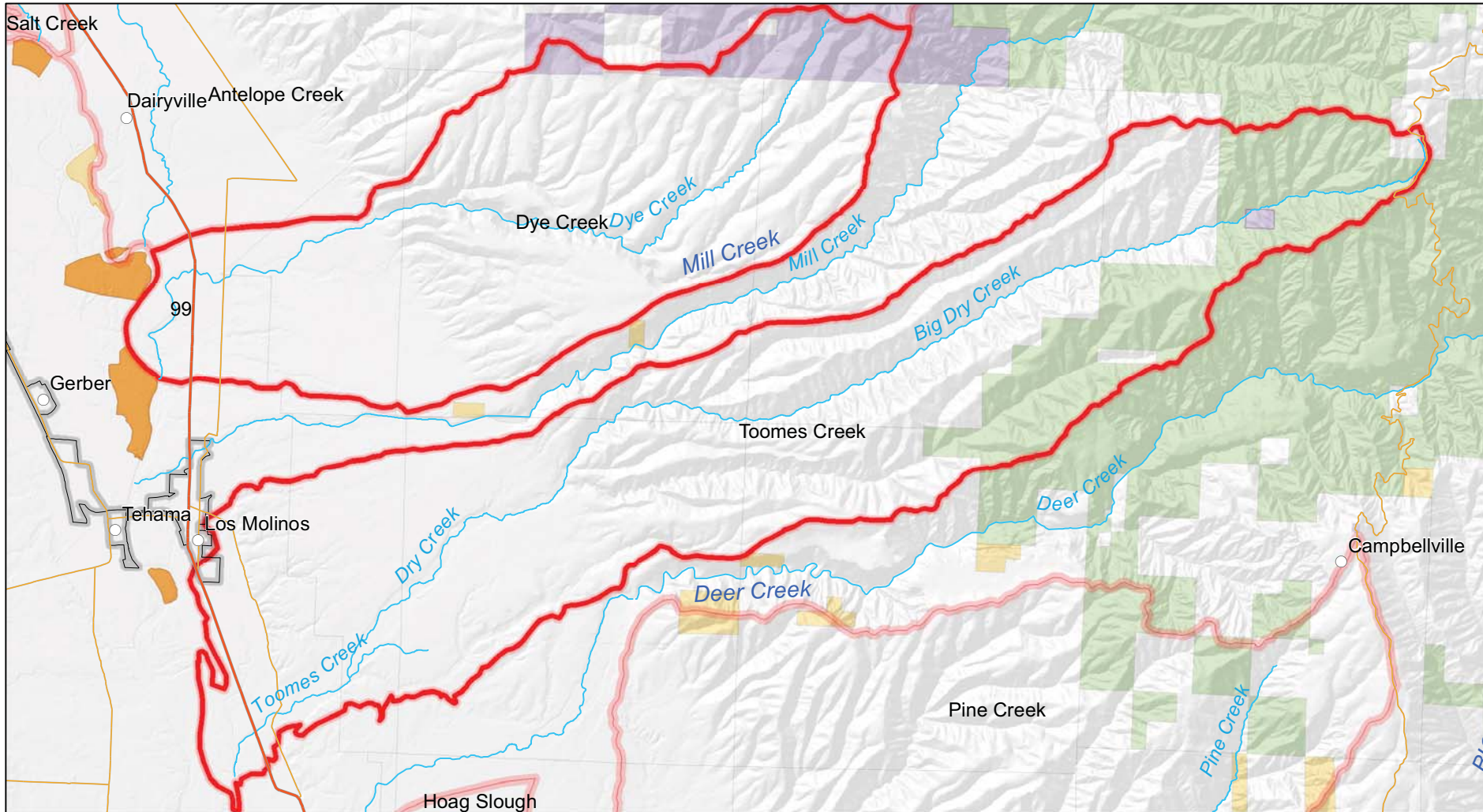
Oak Woodlands TNC, CNPS, TCRCD Special Project Dye and Toomes Creeks - East

Tehama County Resource Conservation District (c) 2010

Legend

- | | | |
|-------------|--|--|
| Oaks | QUWI Quercus wislizeni (Interior Live Oak Tree) | QUCH Quercus chrysolepis (Canyon Live Oak) |
| | QUDO Quercus douglasii (Blue Oak) | QUBE Quercus berberidifolia (scrub oak) |
| | QUKE Quercus kelloggii (Black Oak) | QUDU Quercus durata (Leather Oak) |
| | QULO Quercus lobata (Valley Oak) | QUGAb Quercus garryana/ var. breweri (Brewer Oak) |
| | | Watershed Boundary |





Tehama East Watershed Assessment

Land Ownership Dye and Toomes Creeks

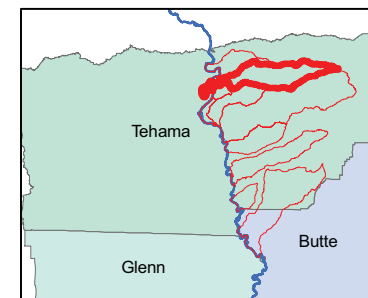
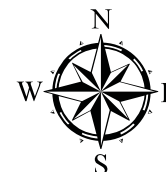


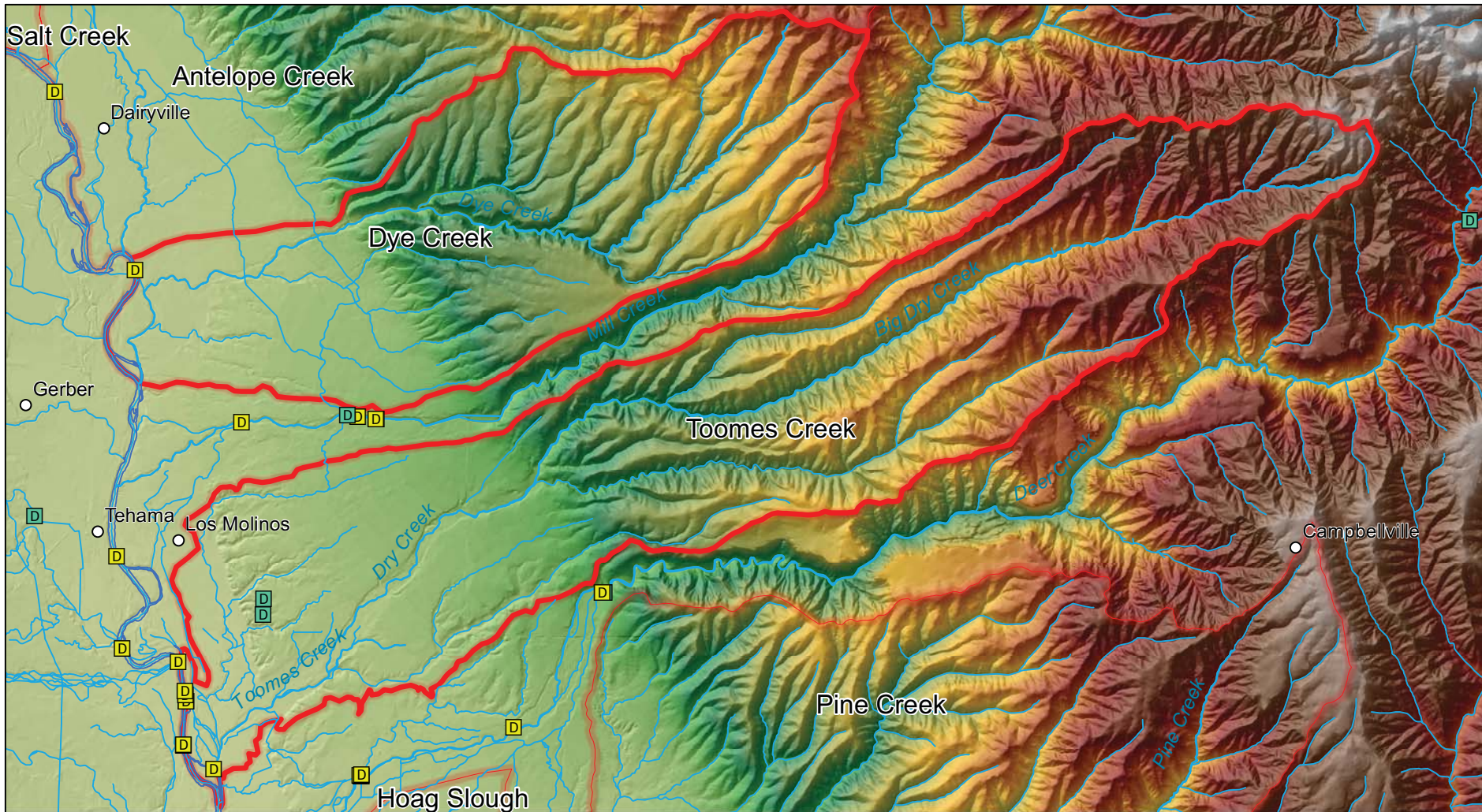
Legend

-  State Lands
-  US National Forest
-  US Bureau of Land Management
-  US Fish and Wildlife
-  Private
-  Major Roads & Highways
-  Urban Areas
-  Watershed Boundary

Dye Creek Watershed
 State Property: 2,379 Acres
 National Forest: 0 Acres
 BLM: 1 Acre
 USFW: 27 Acres
 Private: 29,184

Toomes Creek Watershed
 State Property: 100 Acres
 National Forest: 9,023 Acres
 BLM: 3 Acres
 USFW: 27 Acres
 Private: 39,665





Tehama East Watershed Assessment






Passage Assessment Database
Dye and Toomes Creeks




Tehama County Resource
Conservation District
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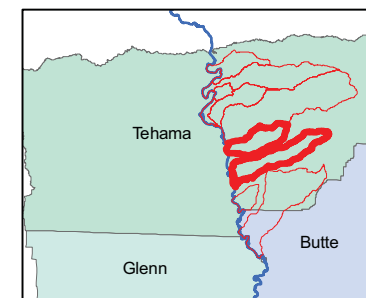
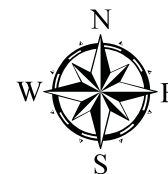
Legend

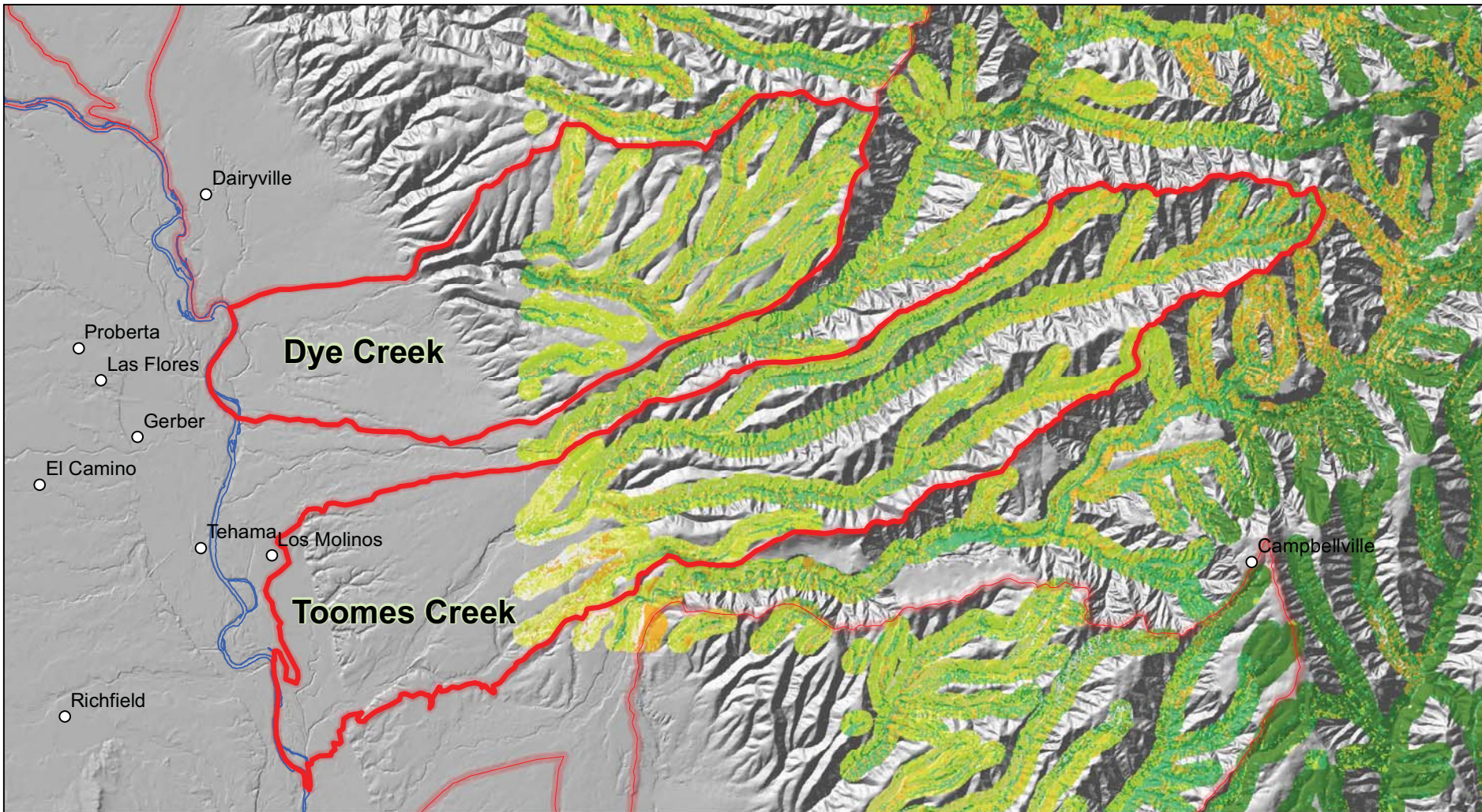
Site Type

-  Dam
-  Diversion
-  Fish trap
-  Non-structural
-  Road crossing

<http://www.calfish.org/DataampMaps/CalFishDataDownloads/tabid/93/Default.aspx>

 Watershed Boundary



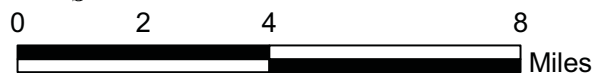


Tehama East Watershed Assessment

Riparian Vegetation
in Hardwood Rangelands
Dye and Toomes Creeks



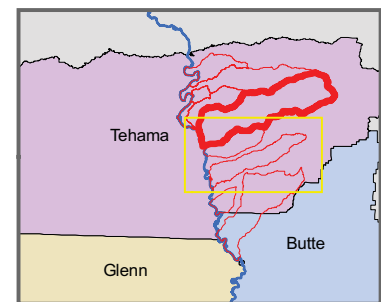
Tehama County Resource Conservation District
(c) 2010

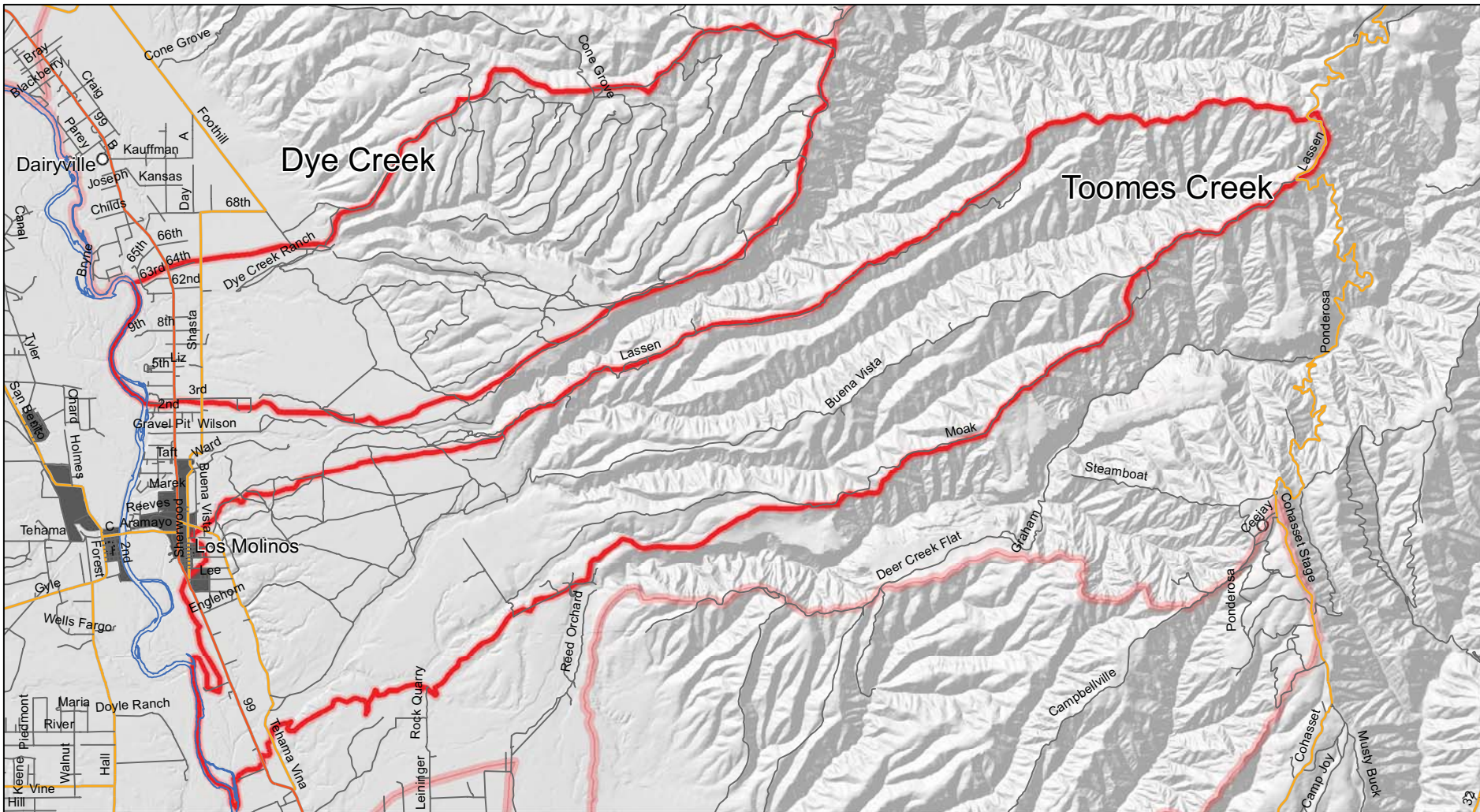


KEY

- Riparian
- Hardwood Range w/<70% Canopy
- Shrub
- Conifer
- Herbaceous
- Water
- Other: Urban, Marsh, Rock, Barren

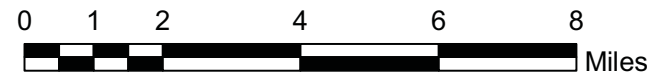
Watershed Boundary



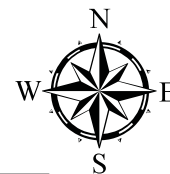


Tehama East Watershed Assessment

Roadways
Dye and Toomes Creeks

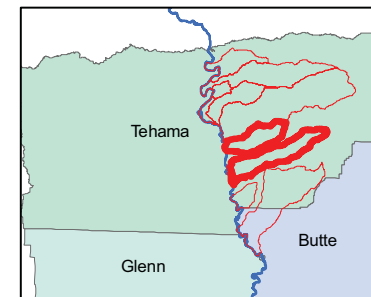


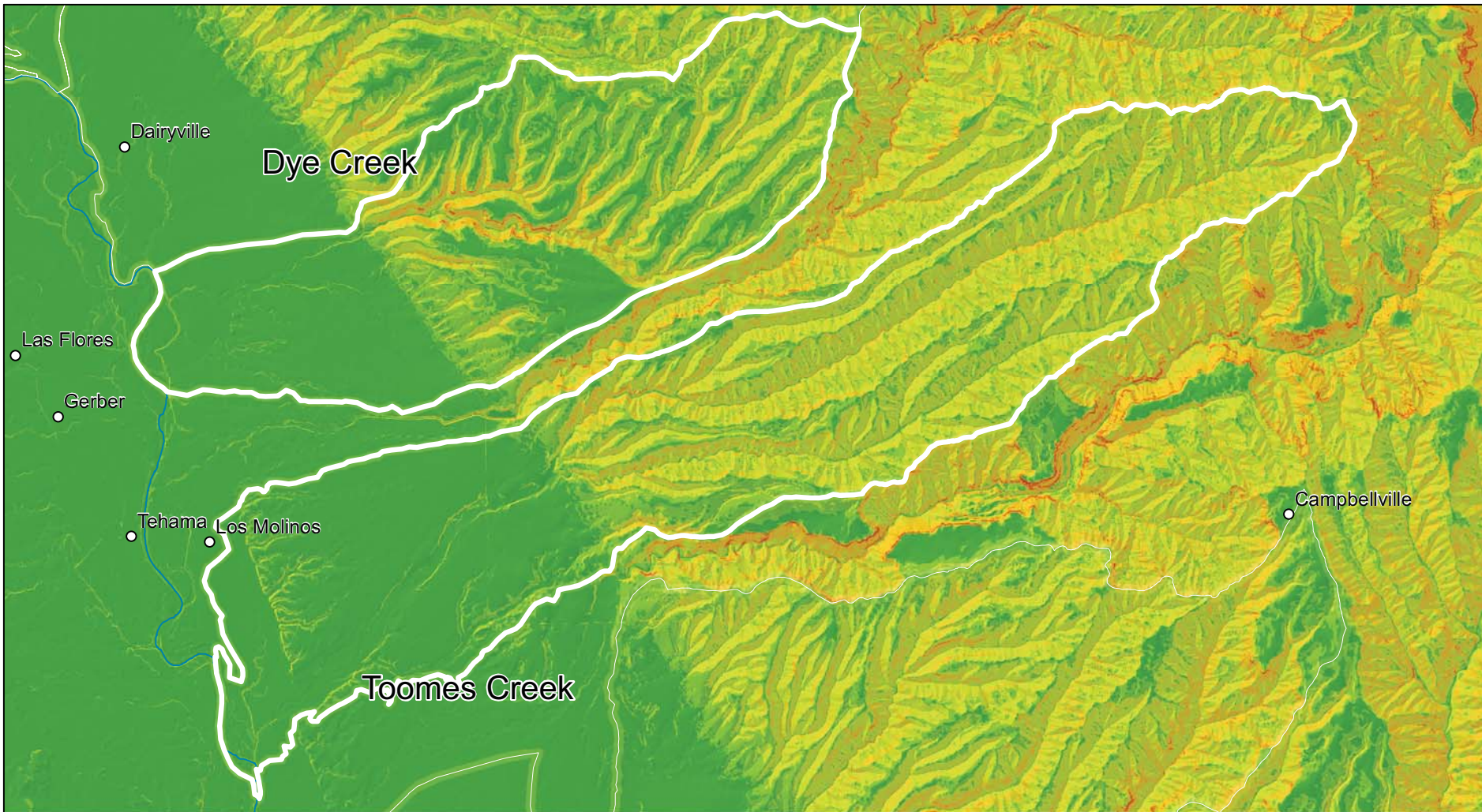
Tehama County Resource
Conservation District
(c) 2010



Legend

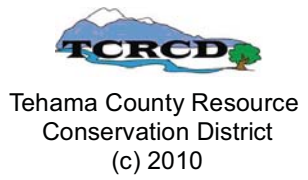
- | | | | | | | | |
|--|----------------|--|------------|--|----------------|--|--------------------|
| | Limited Access | | Local Road | | Ramp | | Urban Areas |
| | Highway | | Minor Road | | Ferry | | Watershed Boundary |
| | Major Road | | Other Road | | Pedestrian Way | | |





Tehama East Watershed Assessment

Percent Slope
Dye and Toomes Creeks

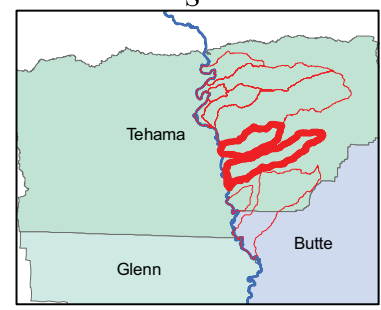
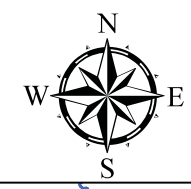


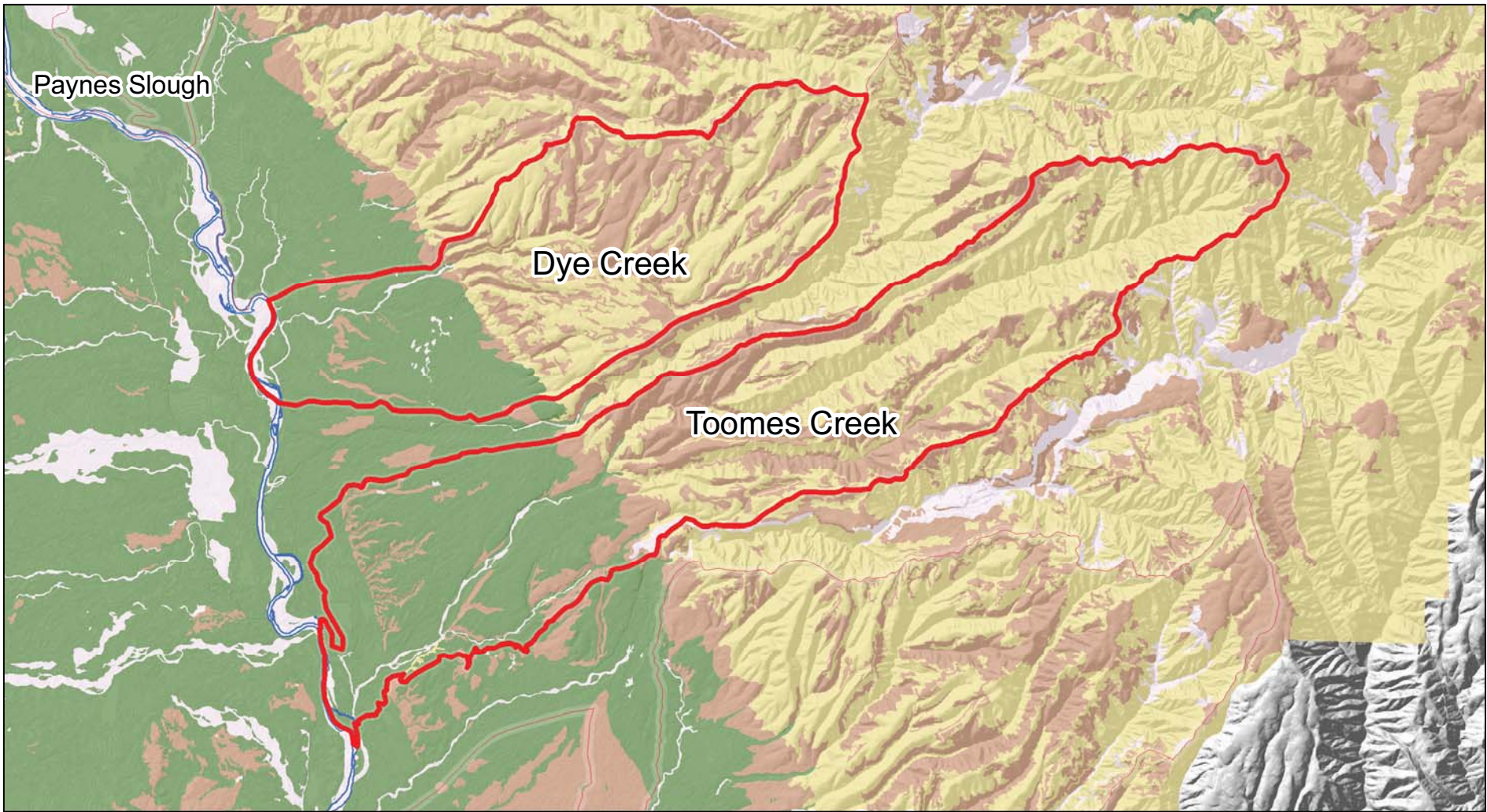
Legend

Percent Slope

- 0 - 2 Percent
- 2 - 5 Percent
- 5 - 10 Percent
- 10 - 20 Percent
- 20 - 50 Percent
- 50 - 100 Percent

Watershed Boundary





Tehama East Watershed Assessment

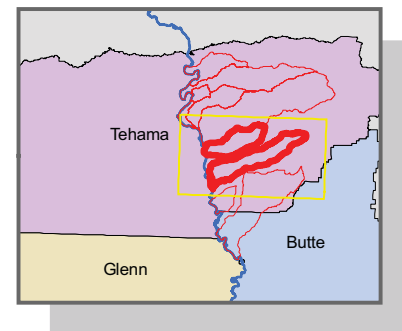
NRCS Soils Highly Erodible Soils
Dye and Toomes Creeks

KEY

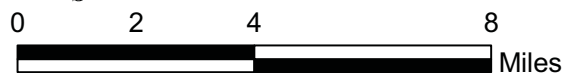
Highly Erodible Land Classification

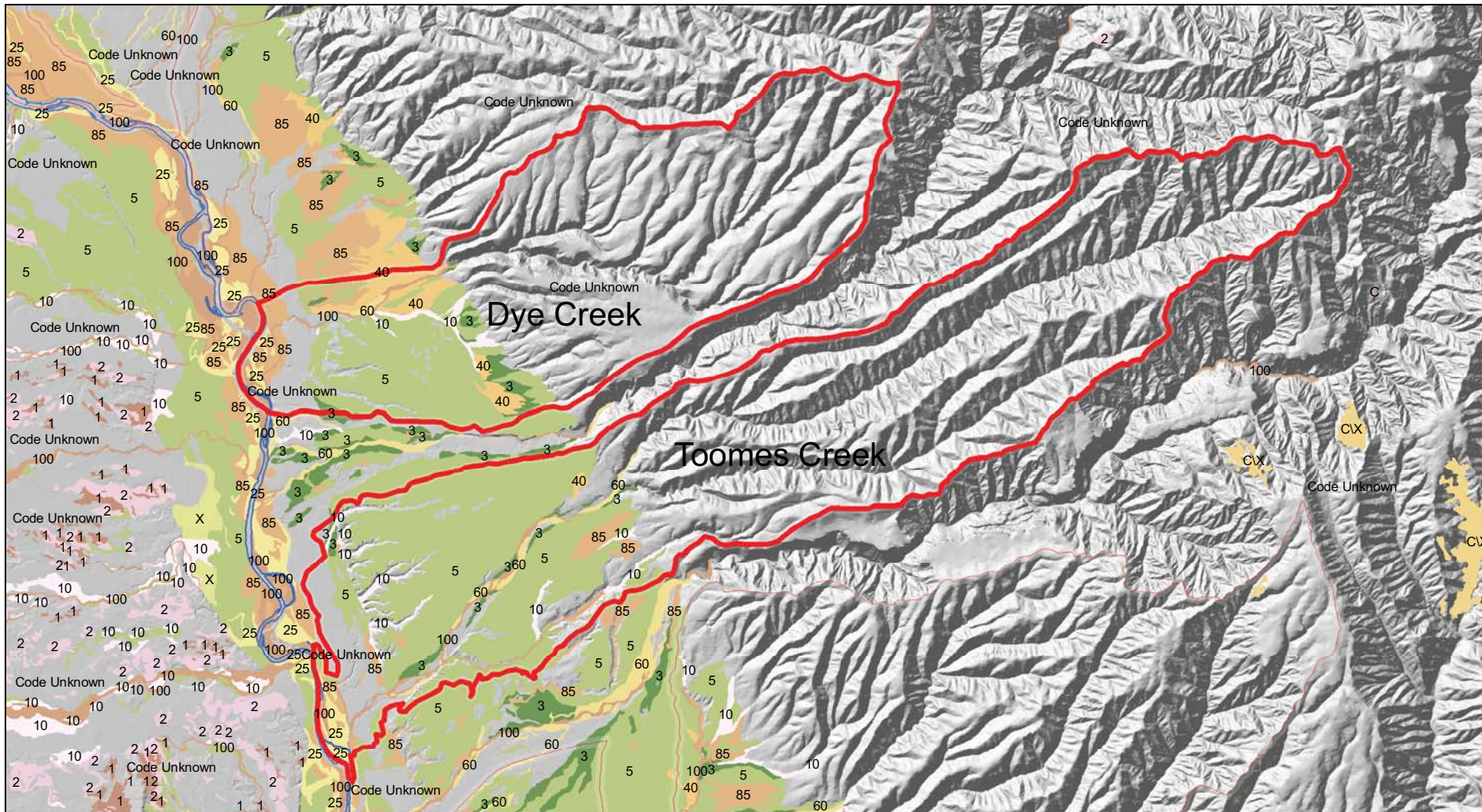
- 1
- 2
- 3
- Code Unknown

Watershed Boundary



Tehama County Resource Conservation District
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Tehama East Watershed Assessment

NRCS Soils Hydric Soils
Dye And Toomes Creeks



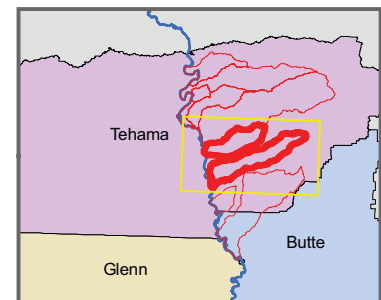
Tehama County Resource Conservation District
(c) 2010

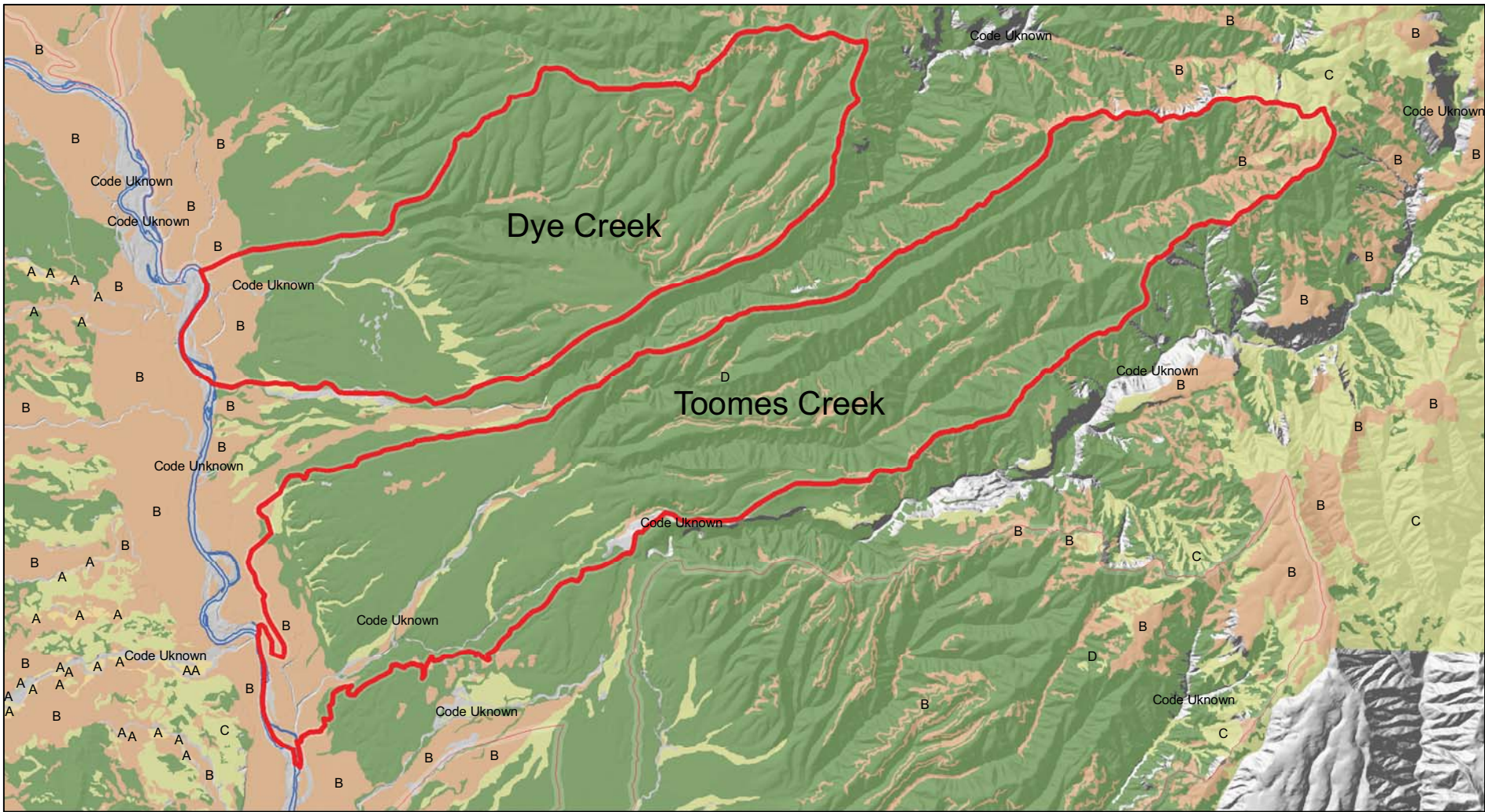


KEY

Hydric Percentage	Color	Value
1	Light Brown	1
2	Pink	2
3	Light Green	3
5	Medium Green	5
10	Light Yellow	10
25	Yellow	25
35	Dark Green	35
	Light Orange	40
	Yellow-Green	60
	Orange	85
	Dark Orange	100
	Red	C
	Light Yellow-Green	CX
	Light Green	X
	White	Code Unknown

Watershed Boundary





Tehama East Watershed Assessment

NRCS Soils Hydrologic Group
Dye and Toomes Creek



Tehama County Resource Conservation District
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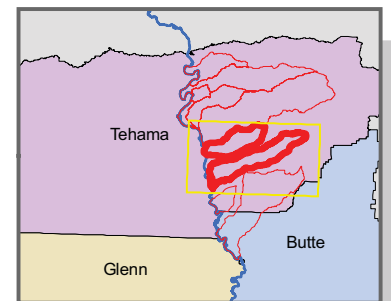
KEY

Hydrologic Group



Code Unknown

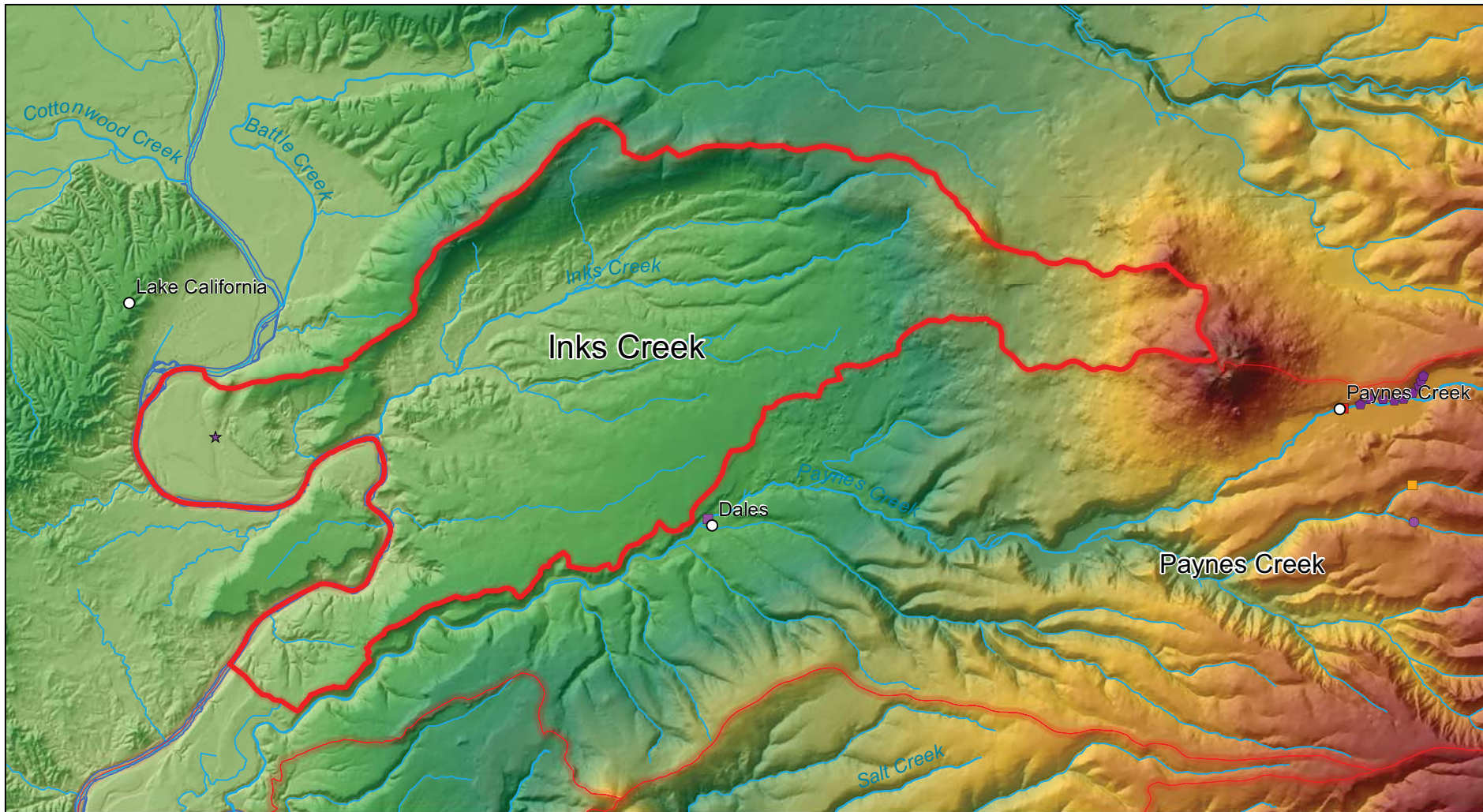
Watershed Boundary



InksMaps by Watersheds

Inks Creek Watersheds

Bridges, Culverts, Pipes, and Slabs.....	342
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Tehama East Watershed Assessment

Bridges, Culverts, Pipes,
and Slabs
Inks Creek



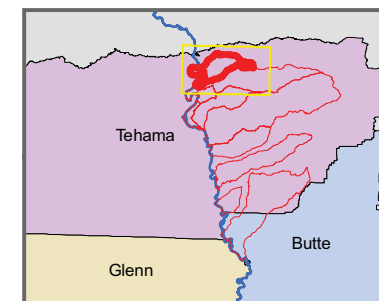
Tehama County Resource Conservation District
(c) 2010

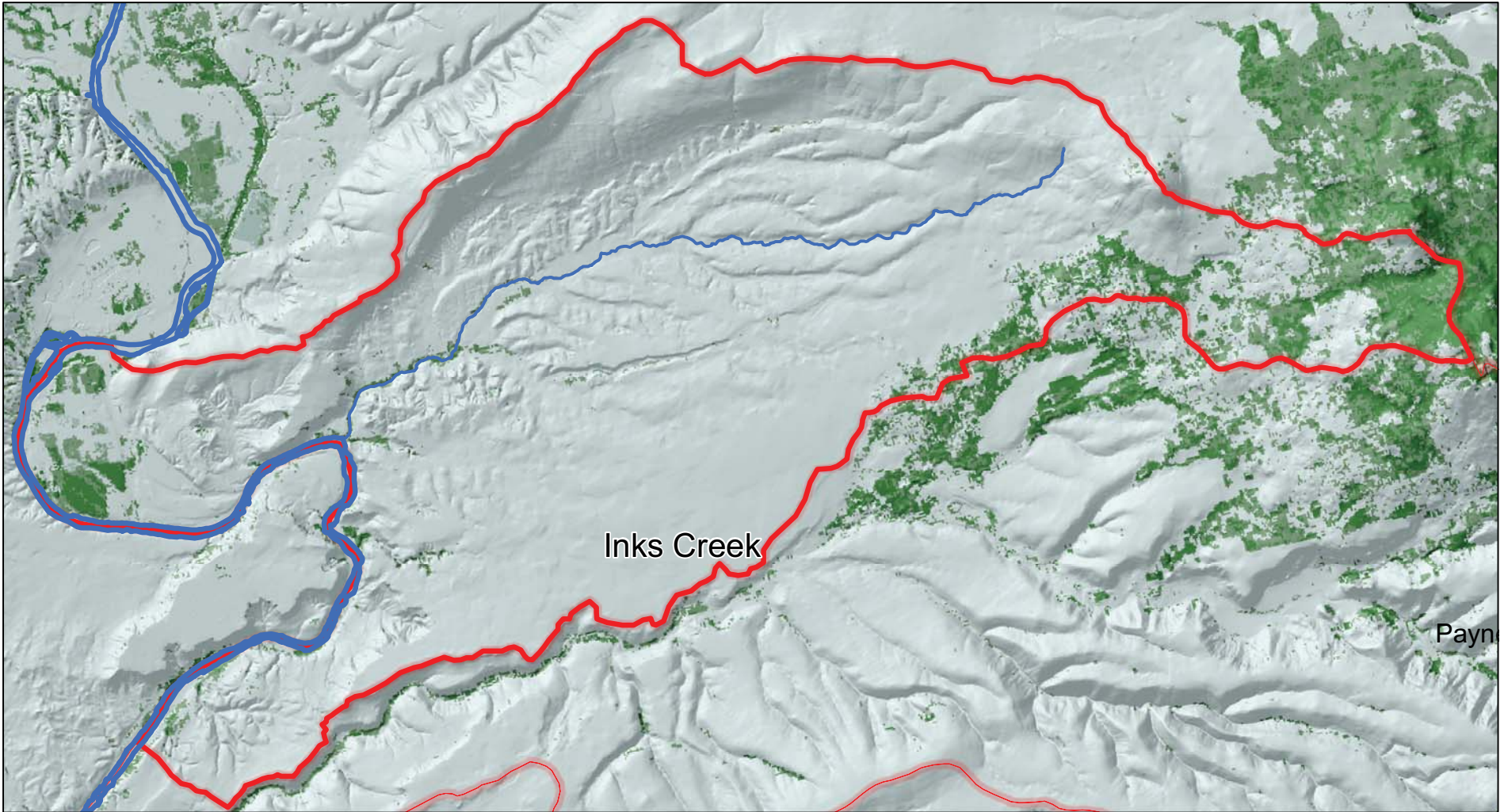


KEY

- | | |
|----------------------------|----------------------------|
| ■ Bridge-Abandoned | ◆ Culvert-Green |
| ■ Bridge-Green | ◀ Culvert-Orange/Green |
| ■ Bridge-Orange | ◆ Culvert-Purple |
| ■ Bridge-Purple | ◆ Culvert-Yellow |
| ▶ Bridge-Purple/Green | ○ Pipe-Purple (Non County) |
| ▶ Bridge-Purple/Orange | ● Pipe-Abandoned |
| ■ Bridge-Red | ● Pipe-Purple |
| ■ Bridge-Yellow | ★ Slab-Abandoned |
| ★ Bridge-Yellow (One Lane) | ★ Slab-Purple |

Watershed Boundary





Tehama East Watershed Assessment

CANOPY COVER
Inks Creek

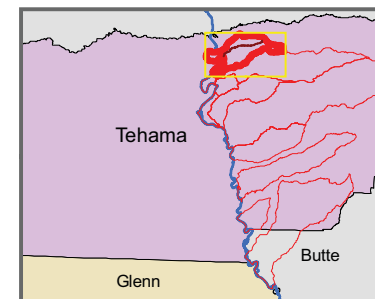
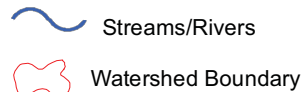
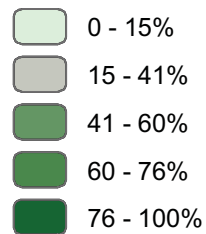


Tehama County Resource Conservation District

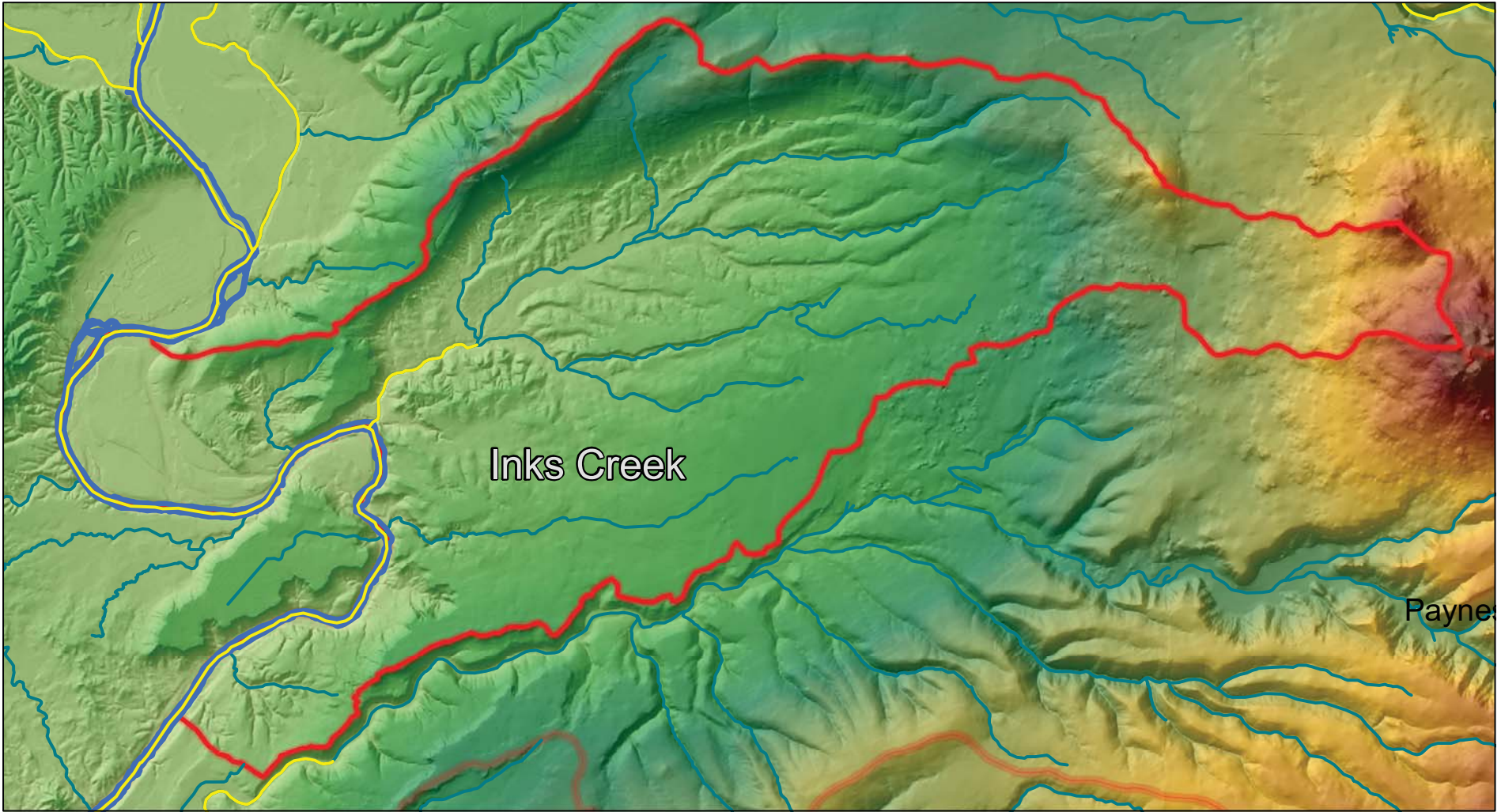
(c) 2010

KEY

Canopy Cover Percent



<http://seamless.usgs.gov/products/nlcd01.php>



Tehama East Watershed Assessment

Critical Habitat - Spring-Run Chinook
Inks Creek

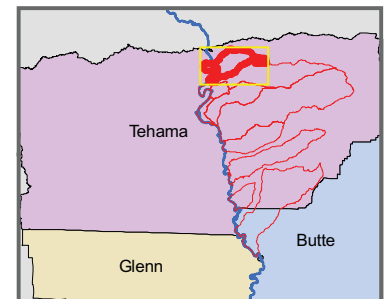


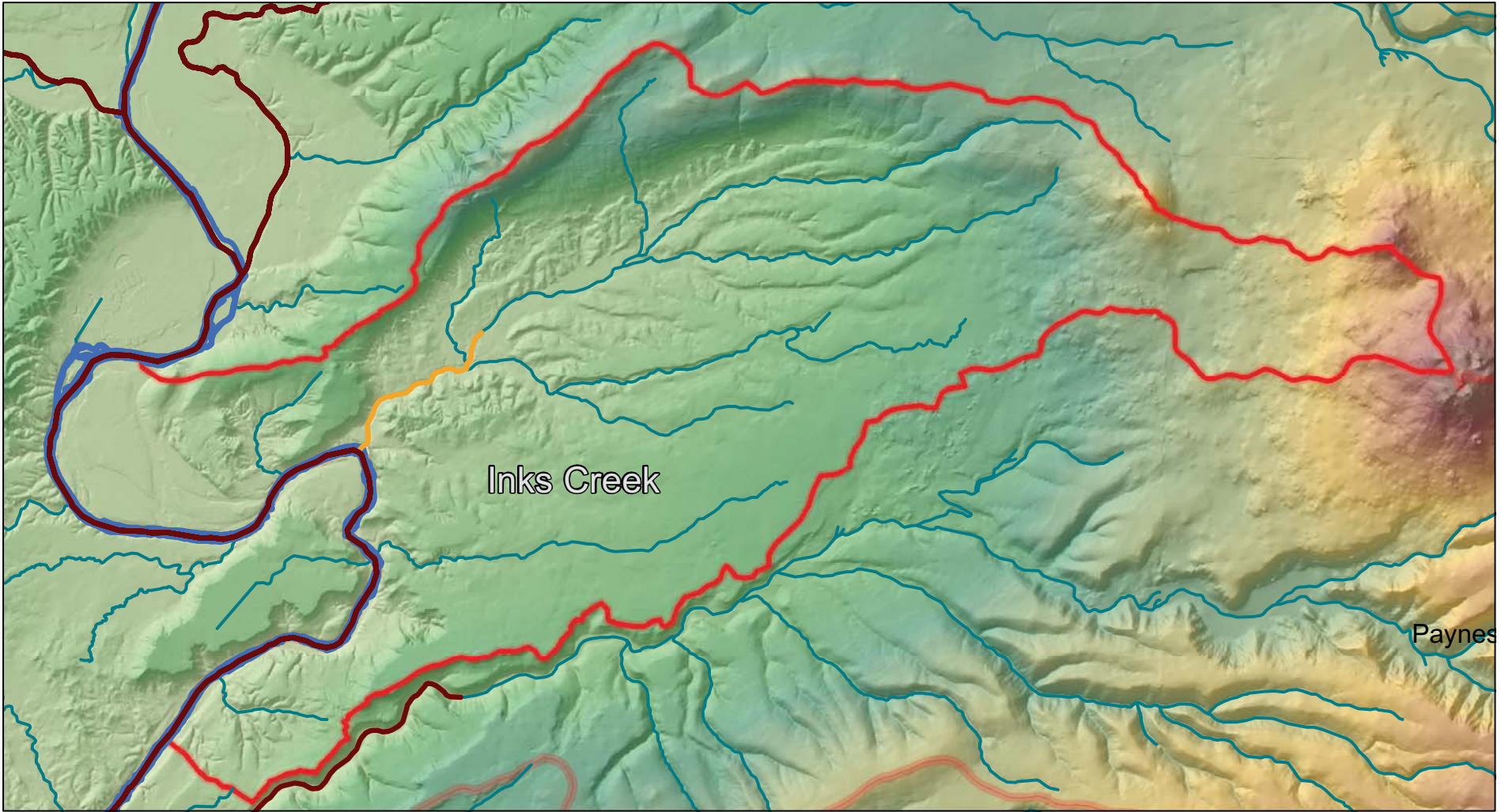
Tehama County Resource
Conservation District
(c) 2010



KEY

- Critical Habitat - Spring-Run Chinook
- Springs/Rivers
- Urban Areas
- Watershed Boundary





Tehama East Watershed Assessment




Chinook Surveys By Year
Inks Creek



Tehama County Resource Conservation District
(c)2010

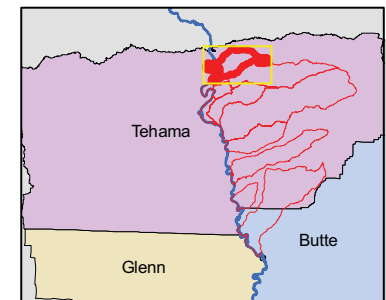


KEY

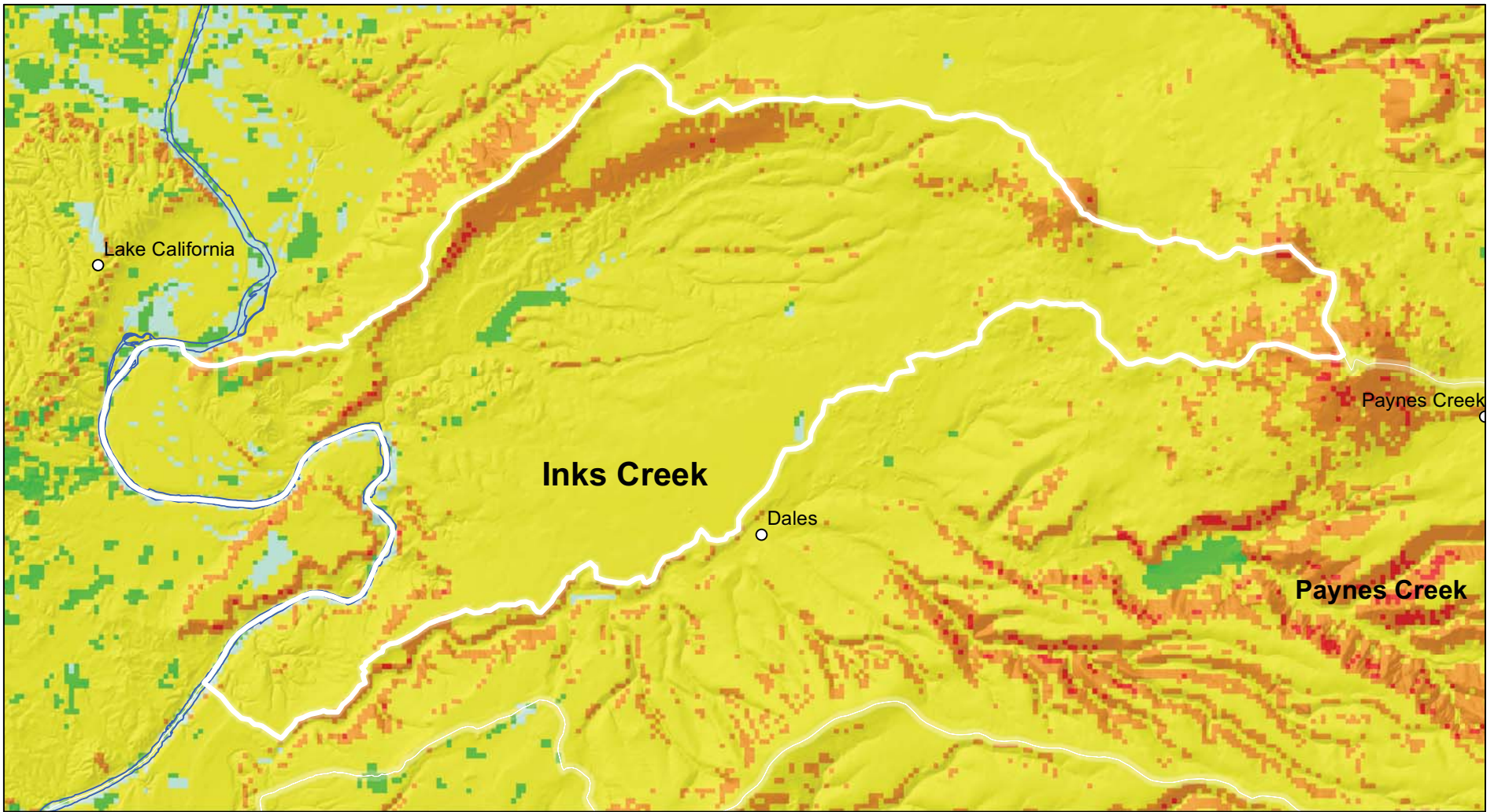
-  Streams/Rivers
-  Urban Areas
-  Watershed Boundary

Year of Survey

-  1959 - 1970
-  1971 - 1986
-  1987 - 1993
-  1994 - 1998
-  1999 - 2003



<http://www.calfish.org/DataampMaps/CalFishDataDownloads/tabid/93/Default.aspx>

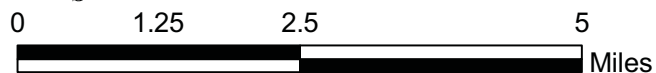


Tehama East Watershed Assessment

Post-fire Erosion Potential Inks Creek








Tehama County Resource Conservation District
(c) 2010




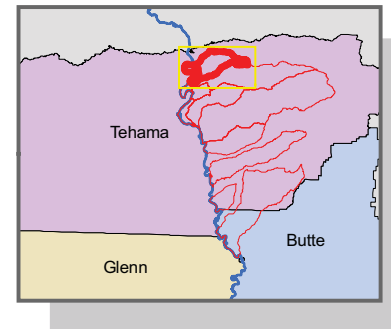
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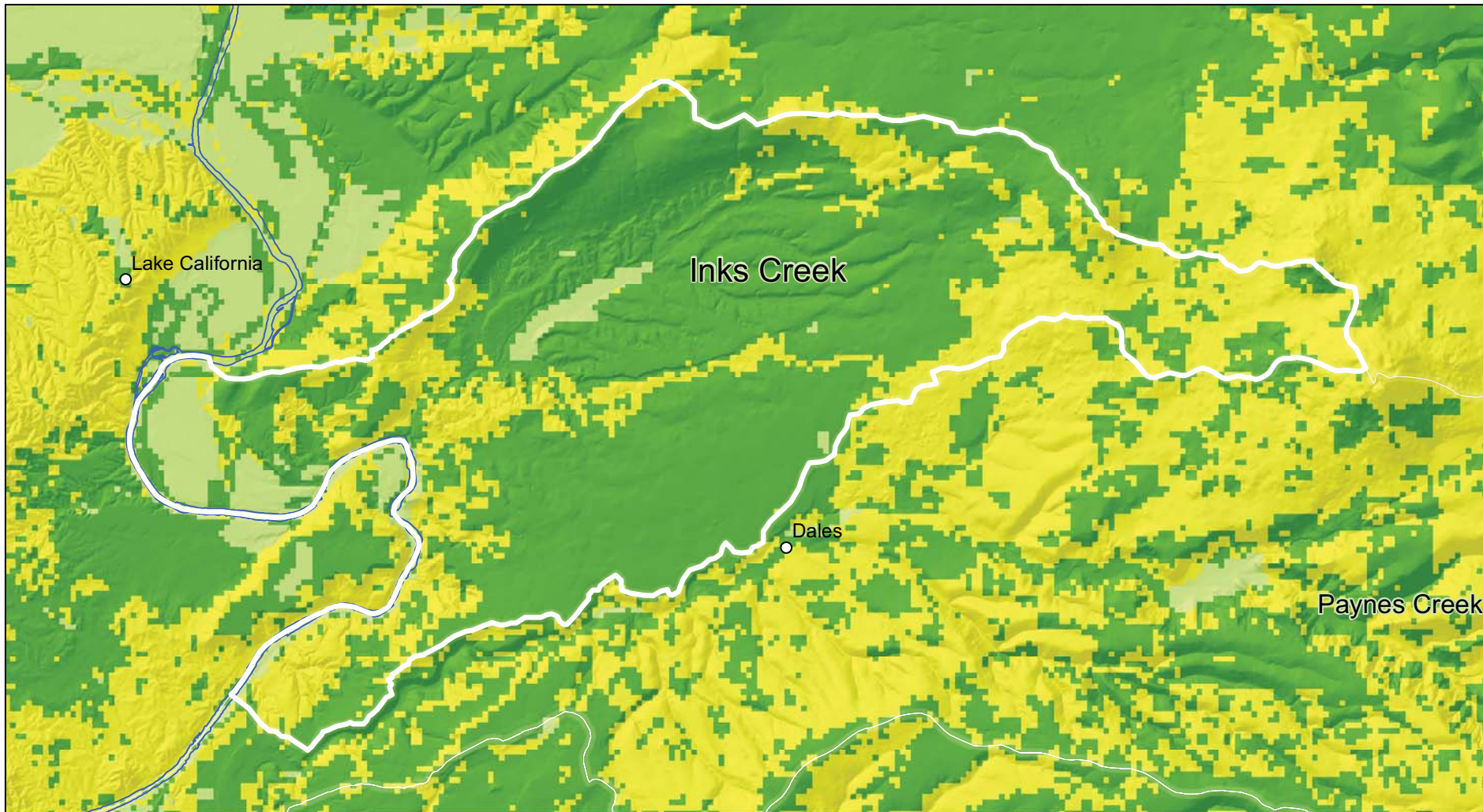
Erosion Classification

-  -1 : Areas without a Fuel Rank (generally Ag or Barren)
-  0 : Water and Urban areas outside scope of analysis
-  1 : Low
-  2 : Moderate
-  3 : High

<http://frap.cdf.ca.gov/data/frapgisdata/download.asp?spatialdist=1&rec=perod>

 Watershed Boundary





Tehama East Watershed Assessment

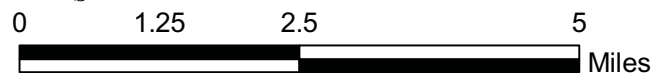
Fire Regime and Condition Class

Condition Class

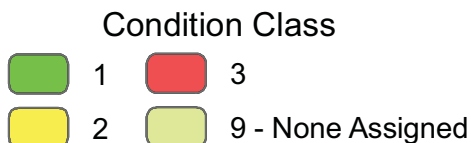
Inks Creek



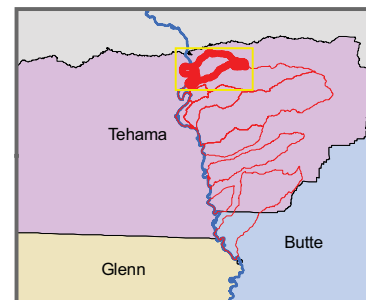
Tehama County Resource Conservation District
(c) 2010

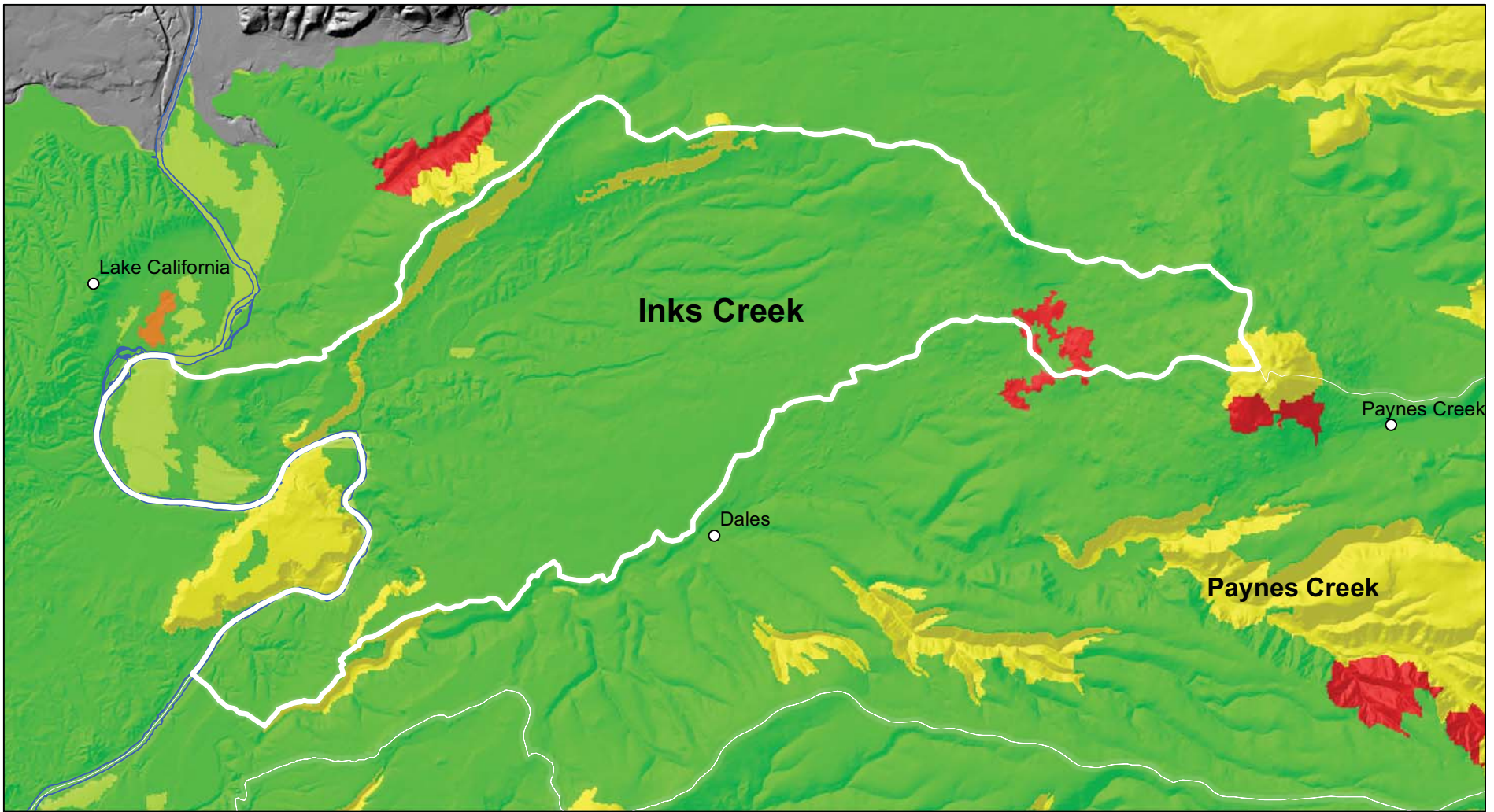


KEY



<http://frap.cdf.ca.gov/data/frapgisdata/download.asp?spatialdist=1&rec=cafrcc>



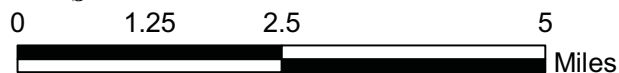


Tehama East Watershed Assessment

Fire Hazard Severity Zoning
2007 DRAFT - FRAP
Inks Creek



Tehama County Resource Conservation District
(c) 2010

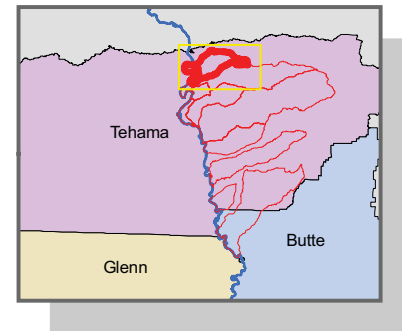


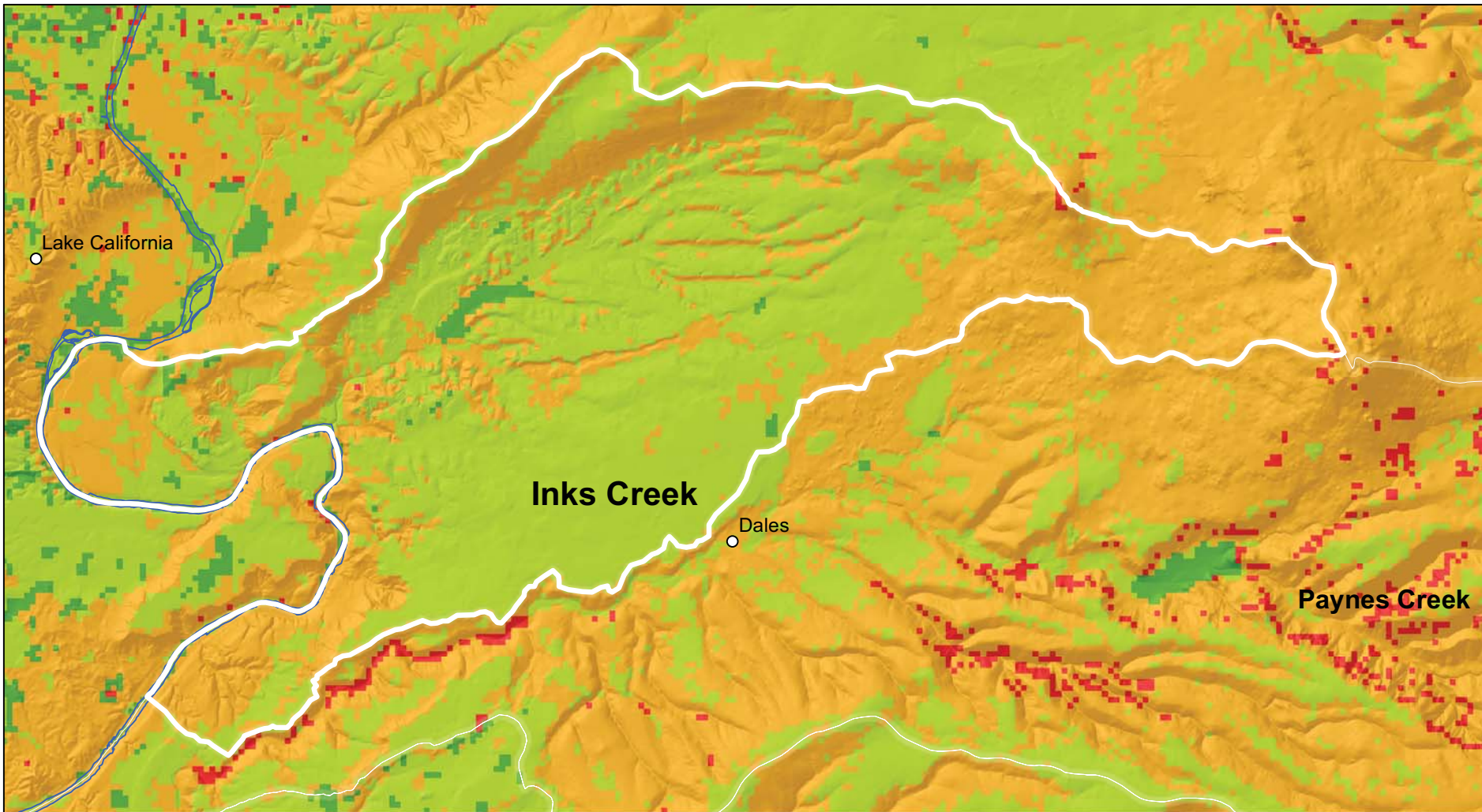
KEY

Hazard Class

- Moderate
- High
- Very High
- Non-Wildland/Non-Urban
- Urban Unzoned

Watershed Boundary





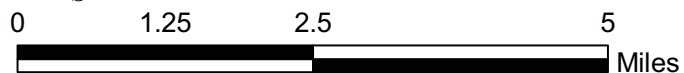
Tehama East Watershed Assessment

Fire Regime and Condition Class

Fuel Ranking
Inks Creek



Tehama County Resource Conservation District
(c) 2010



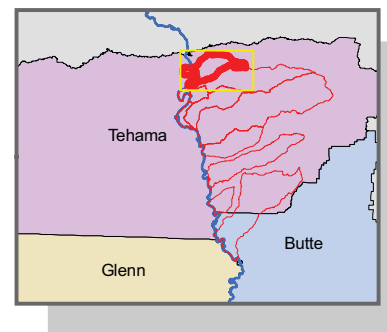
KEY

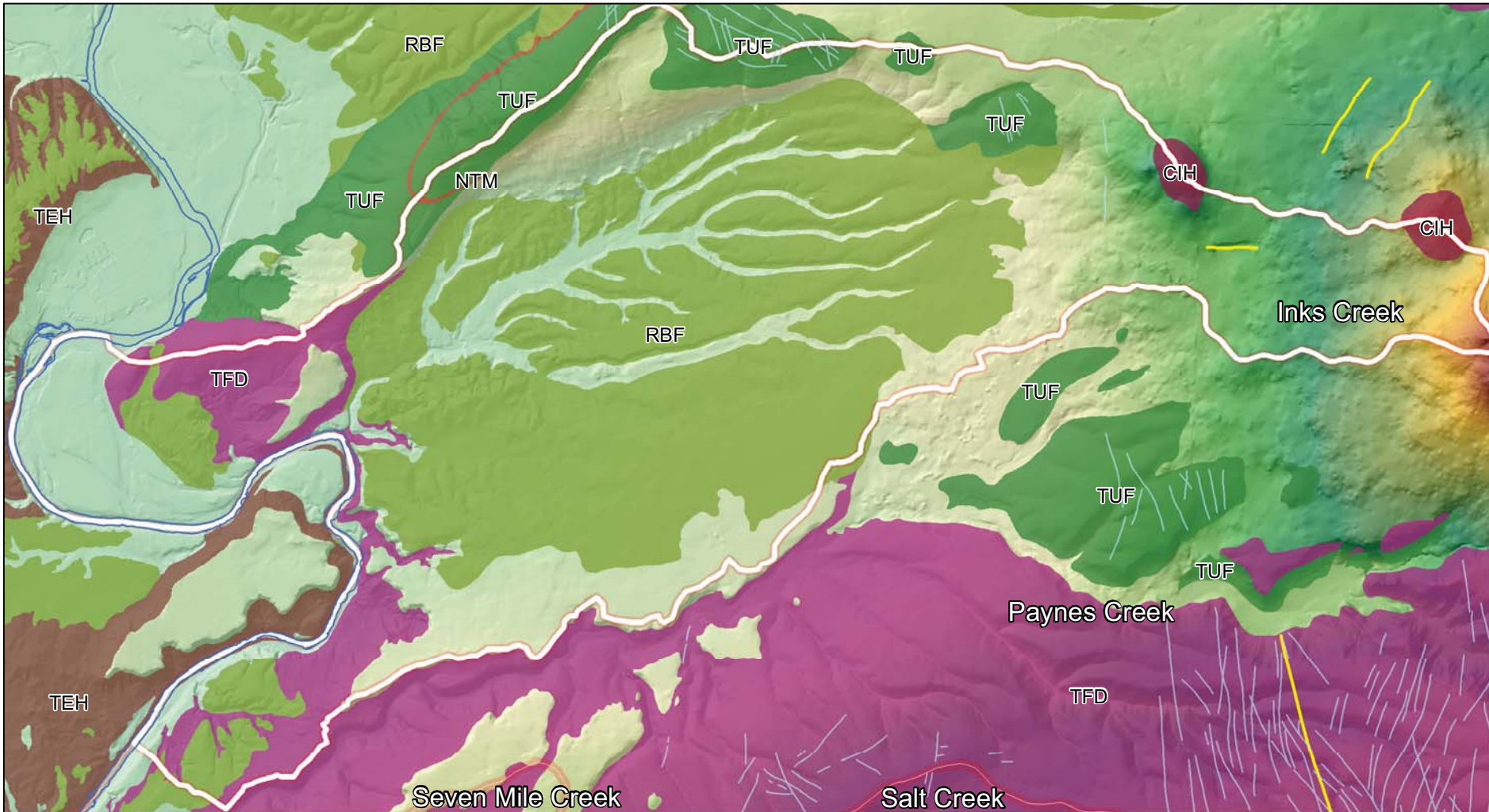
Fuel Ranking

- 1 - Little or No Hazard
- 1 - Moderate Hazard
- 2 - High Hazard
- 3 - Very High Hazard

<http://frap.cdf.ca.gov/data/frapgisdata/download.asp?spatialdist=1&rec=cafrcc>

Watershed Boundary





Tehama East Watershed Assessment

Selected Geological Formations, Fault Lines and Monoclines Inks Creek

Legend

Selected Geology

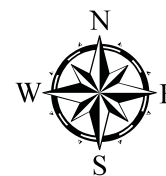
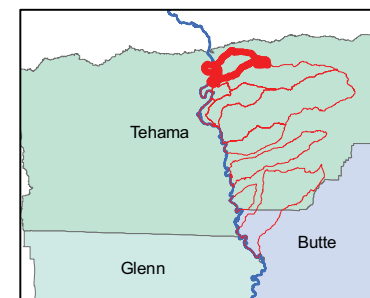
- | | |
|---|--|
| CHF Chico Formation | TAI Tailings |
| CBB Cinder Cone Deposits, Black Butte | TEH Tehama Formation |
| CDB Cinder Cone Deposits, Digger Butte | TUF Tuscan Formation |
| CIH Cinder Cone Deposits, Inskipp Hill | TFU Tuscan Formation, Undifferentiated Unit A & B |
| LAN Landslides | TFA Unit A, Tuscan Formation |
| LOB Lovejoy Basalt | TFB Unit B, Tuscan Formation |
| NTM Nomlaki Tuff Member | TFC Unit C, Tuscan Formation |
| OGD Older Gravel Deposits | TFD Unit D, Tuscan Formation |
| RBF Red Bluff Formation | |

- ▬▬▬ Chico Monocline Lineaments
- ▬▬▬ Fault Lines

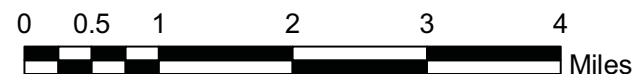
<http://projects.atlas.ca.gov/projects/sacvalleygeol>

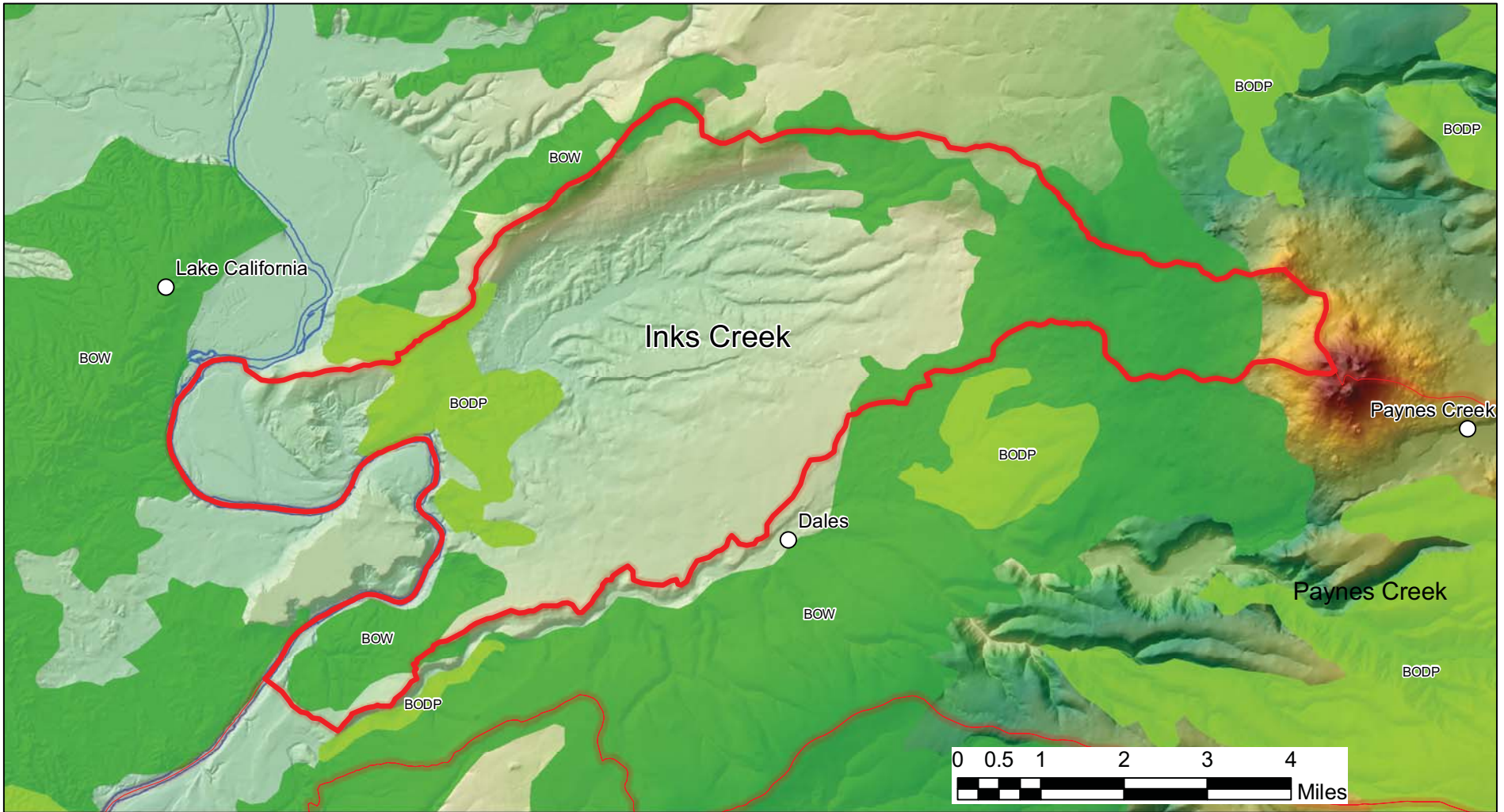
- + Urban Areas

- Watershed Boundary



4/2010





Tehama East Watershed Assessment

Hardwood Rangelands
Inks Creek



Tehama County Resource Conservation District
(c) 2010

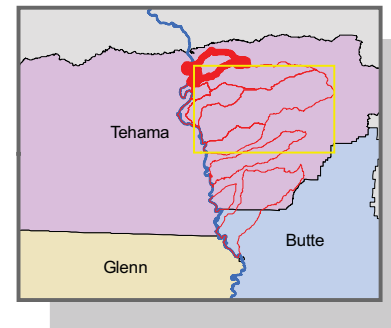
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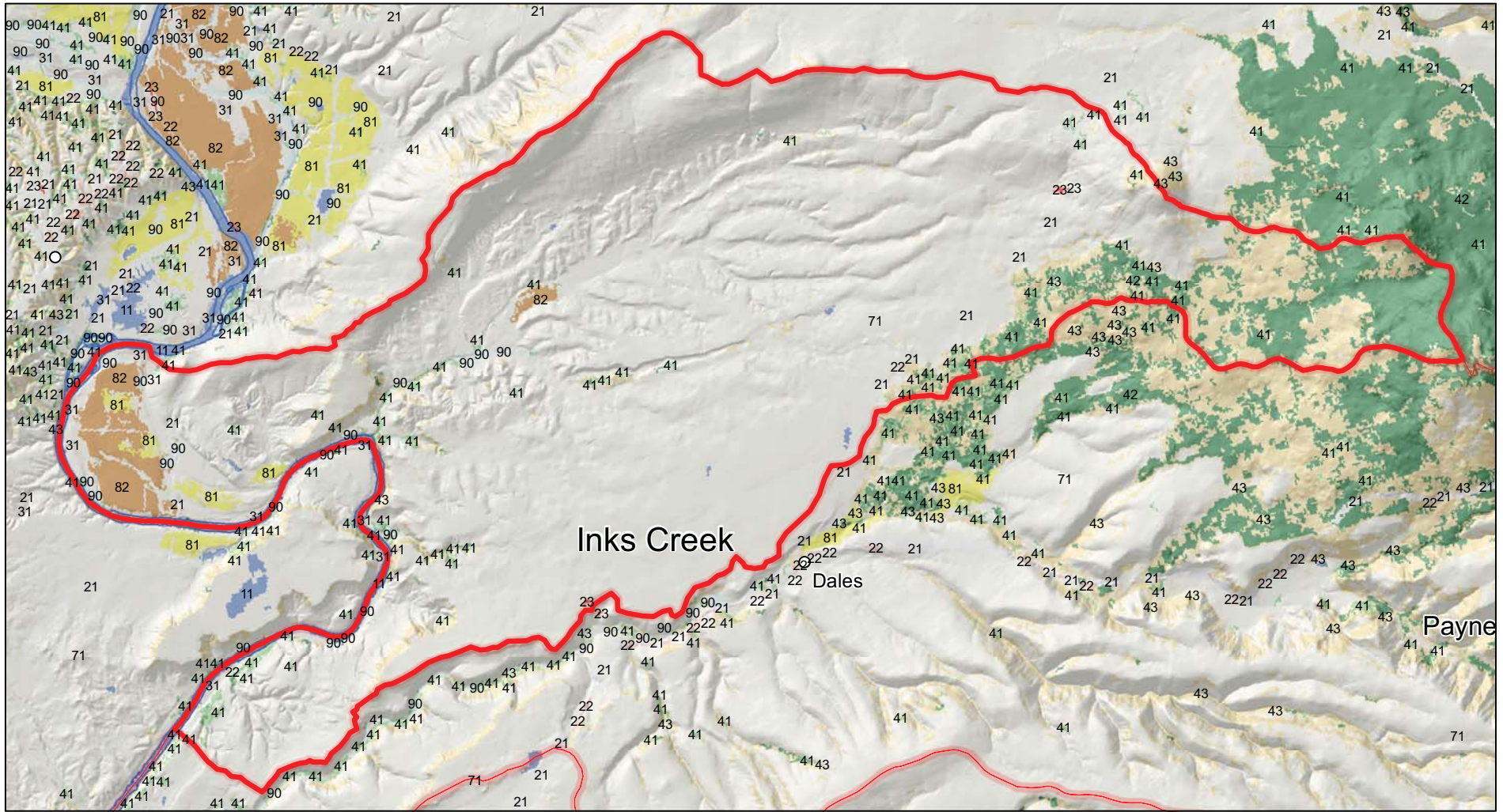
Cover Type

- BODP - Blue Oak \ Foothill Pine
- BOW - Blue Oak Woodland
- MH - Montane Hardwoods
- OTHER - Non-Hardwood
- VOW - Valley Oak Woodland

<http://frap.cdf.ca.gov/data/frapgisdata/download.asp?rec=hardwoods>

Watershed Boundary





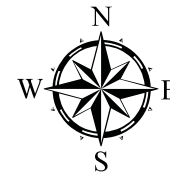
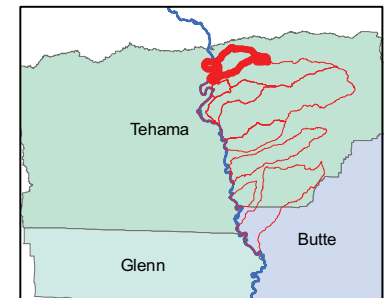
Tehama East Watershed Assessment

Land Cover National Land Cover Database Inks Creek

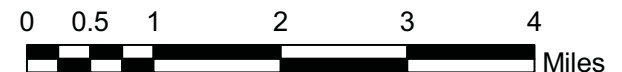
Legend

- | | |
|----------------------------------|-----------------------------------|
| 11 - Open Water | 52 - Shrub/Scrub |
| 21 - Developed, Open Space | 71 - Grasslands/Herbaceous |
| 22 - Developed, Low Intensity | 81 - Pasture/Hay |
| 23 - Developed, Medium Intensity | 82 - Cultivated Crops |
| 24 - Developed, High Intensity | 90 - Woody Wetlands |
| 31 - Bare Rock/Sand/Clay | 95 - Emergent Herbaceous Wetlands |
| 41 - Deciduous Forest | |
| 42 - Evergreen Forest | |
| 43 - Mixed Forest | |

- | |
|--------------------|
| Urban Areas |
| Watershed Boundary |



Tehama County Resource Conservation District
(c) 2010



http://www.mrlc.gov/nlcd_multizone_map.php
Homer, C. C. Huang, L. Yang, B. Wylie and M. Coan. 2004. Development of a 2001 National Landcover Database for the United States. Photogrammetric Engineering and Remote Sensing, Vol. 70, No. 7, July 2004, pp. 829-840.

Tehama East Watershed Assessment

Land Use - Agriculture

Department of Water Resources
Inks Creek



KEY

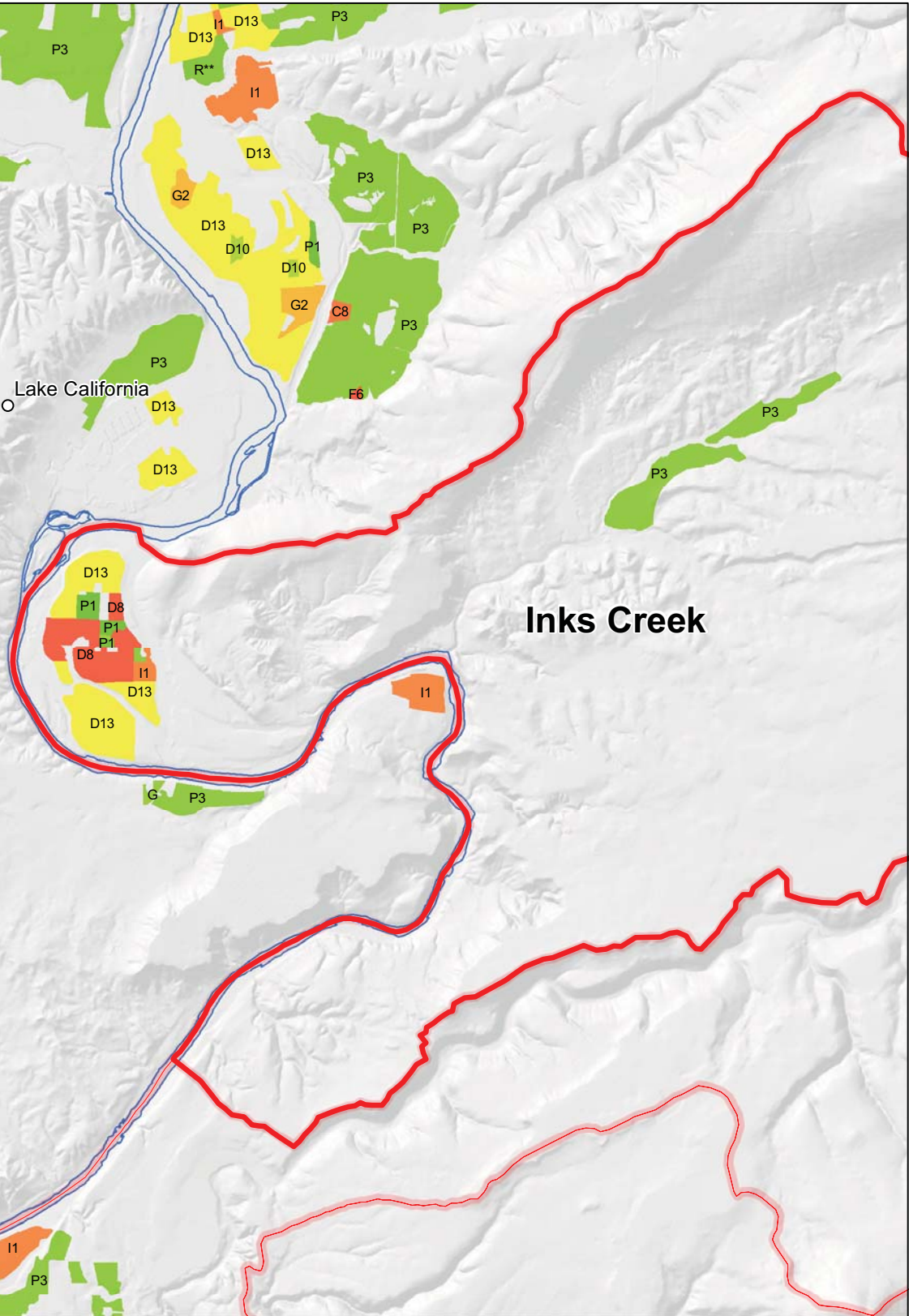
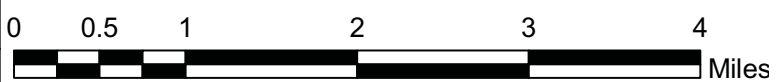
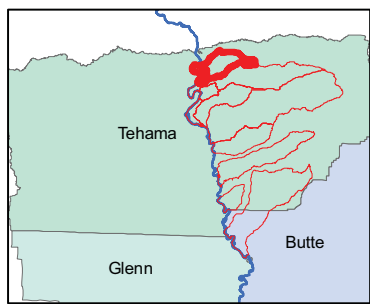
Land Use - Agriculture

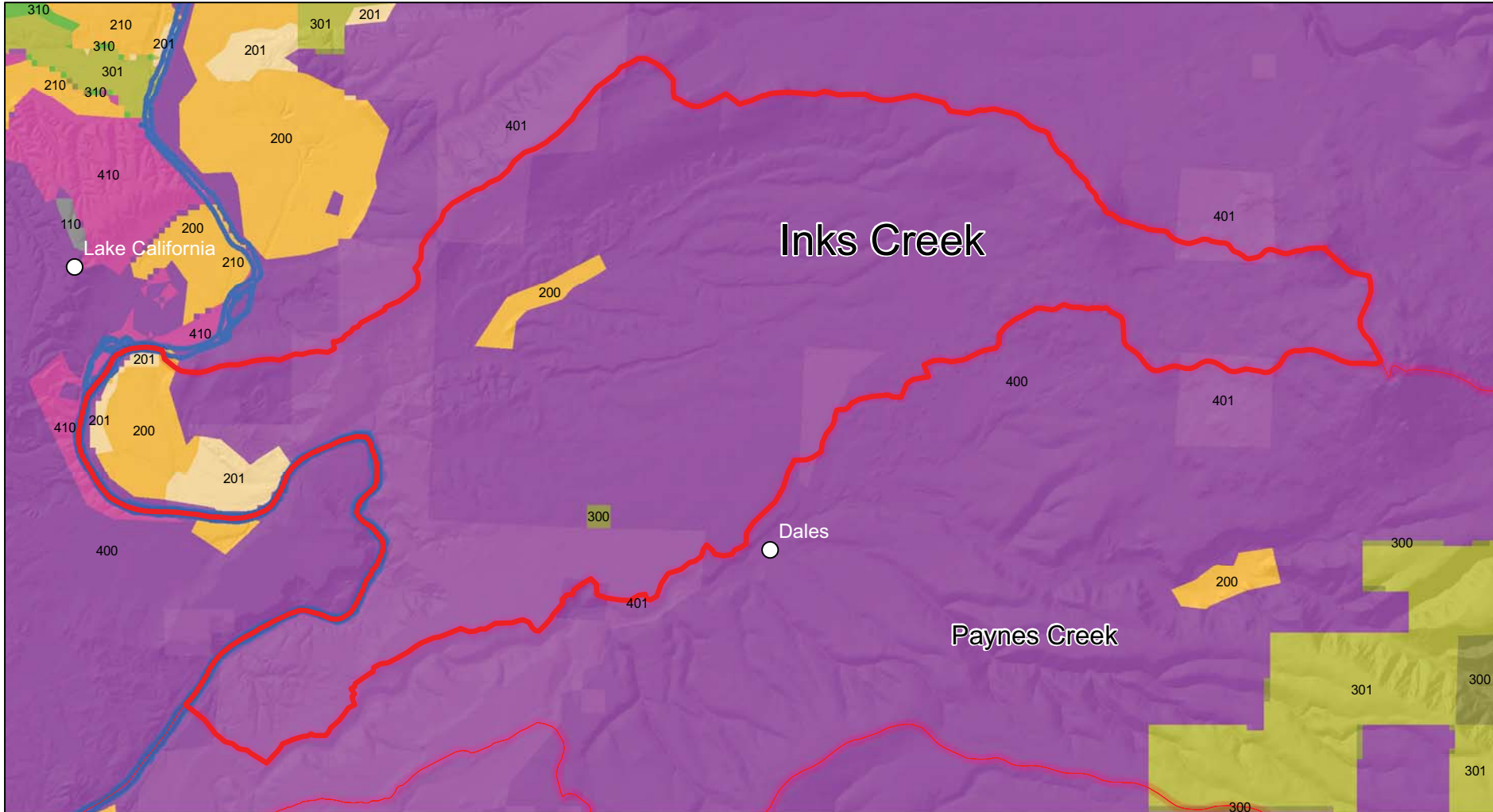
- | | |
|--------------------------------------|-------------------------------------|
| C3 - Oranges | G - Grain & Hay Crops |
| C6 - Olives | G1 - Barley |
| C7 - Miscellaneous Subtropical Fruit | G2 - Wheat |
| C8 - Kiwis | G3 - Oats |
| C10 - Eucalyptus | G6 - Miscellaneous Grain & Hay |
| D1 - Apples | G - Grain & Hay Crops ** |
| D2 - Apricots | I1 - Not cropped last 3 years |
| D3 - Cherries | I2 - New, prepared for crops |
| D5 - Peaches and Nectarines | P1 - Alfalfa & alfalfa mixtures |
| D6 - Pears | P2 - Clover |
| D8 - Prunes | P3 - Mixed Pasture |
| D9 - Figs | P4 - Native Pasture |
| D10 - Miscellaneous Deciduous | P5 - High Water Nat. Pas. |
| D12 - Almonds | P7 - Turf Farms |
| D13 - Walnuts | P - Pasture ** |
| D14 - Pistachios | R - Rice |
| F - Field Crops | R - Rice ** |
| F1 - Cotton | T2 - Asparagus |
| F2 - Safflower | T9 - Melons, squash, and cucumbers |
| F3 - Flax | T10 - Onions and Garlic |
| F5 - Sugar Beets | T15 - Tomatoes |
| F6 - Corn, Field & Sweet | T16 - Flowers, Nursery & Tree Farms |
| F8 - Sudan | T18 - Miscellaneous Truck Farms |
| F - Field Crops ** | T19 - Bush Berries |
| F10 - Beans, Dry | T20 - Strawberries |
| F11 - Miscellaneous Field | V - Vineyards |
| F12 - Sunflowers | V2 - Wine Grapes |
| | V - Vineyards ** |

** No specific crop was assigned.

<http://www.water.ca.gov/landwateruse/lsusrvmain.cfm>

-  Urban Areas
-  Watershed Boundary

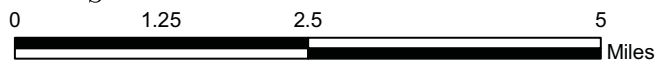




**Tehama East
Watershed Assessment
Managementscapes
CalFire - FMMP (2000)
Inks Creek**

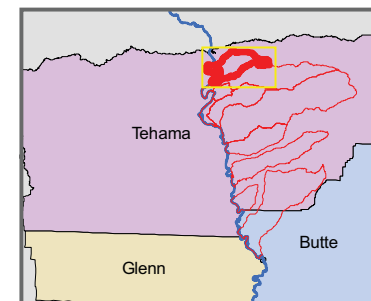


Tehama County Resource Conservation District
(c) 2010

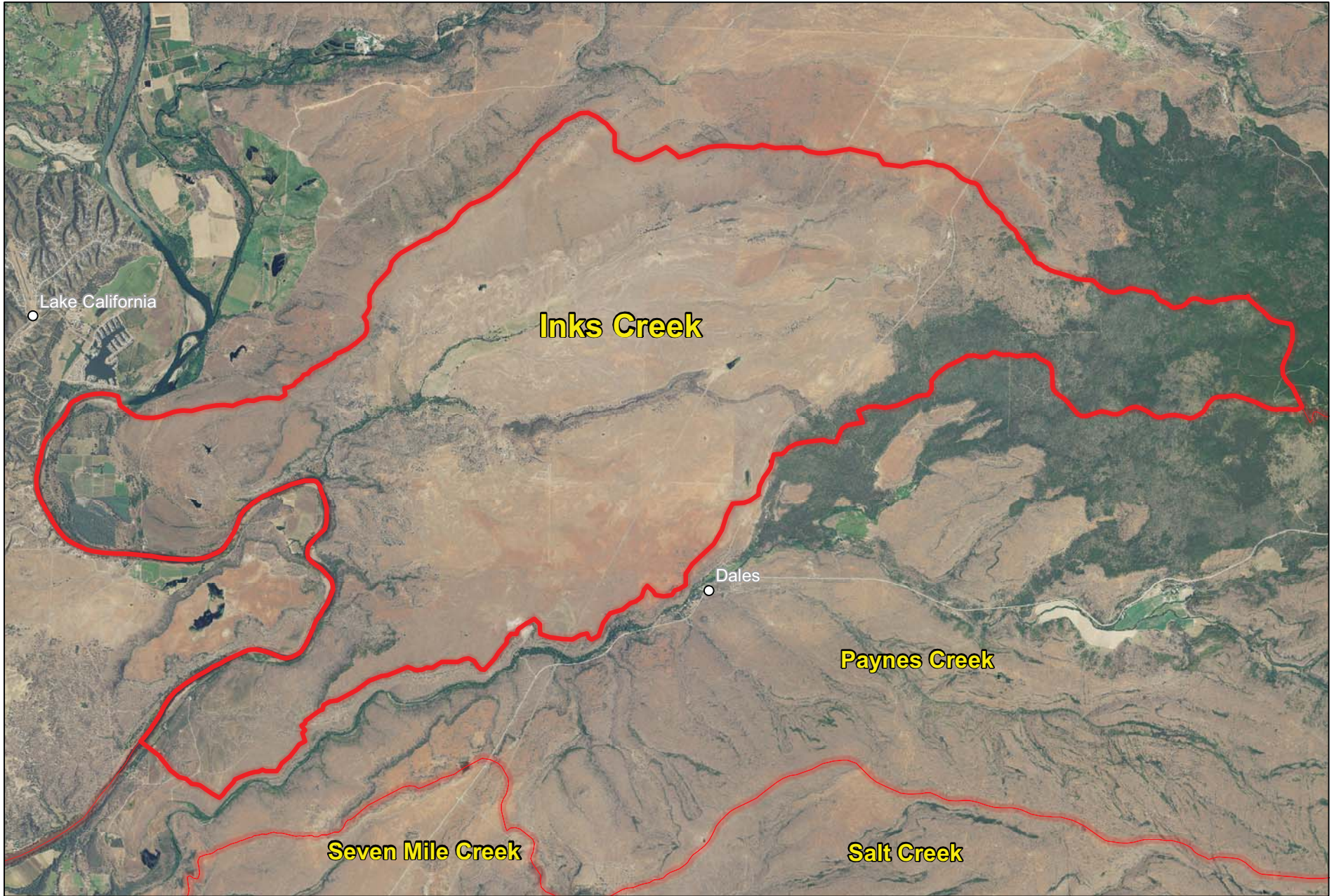


Managementscape Grid Code

- 110 - URBAN/PRIVATE
- 111 - URBAN/PUBLIC
- 200 - AG/SPARSE RES/PRIVATE
- 201 - AG/SPARSE RES/PUBLIC
- 210 - AG/RURAL RES/PRIVATE
- 300 - RESERVE/SPARSE RES/PRIVATE
- 301 - RESERVE/SPARSE RES/PUBLIC
- 310 - RESERVE/RURAL RES/PRIVATE
- 311 - RESERVE/RURAL RES/PUBLIC
- 400 - WORKING/SPARSE RES/PRIVATE
- 401 - WORKING/SPARSE RES/PUBLIC
- 410 - WORKING/RURAL RES/PRIVATE
- 411 - WORKING/RURAL RES/PUBLIC



- Watershed Boundary
- Sacramento River
- Communities

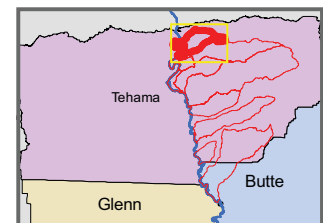


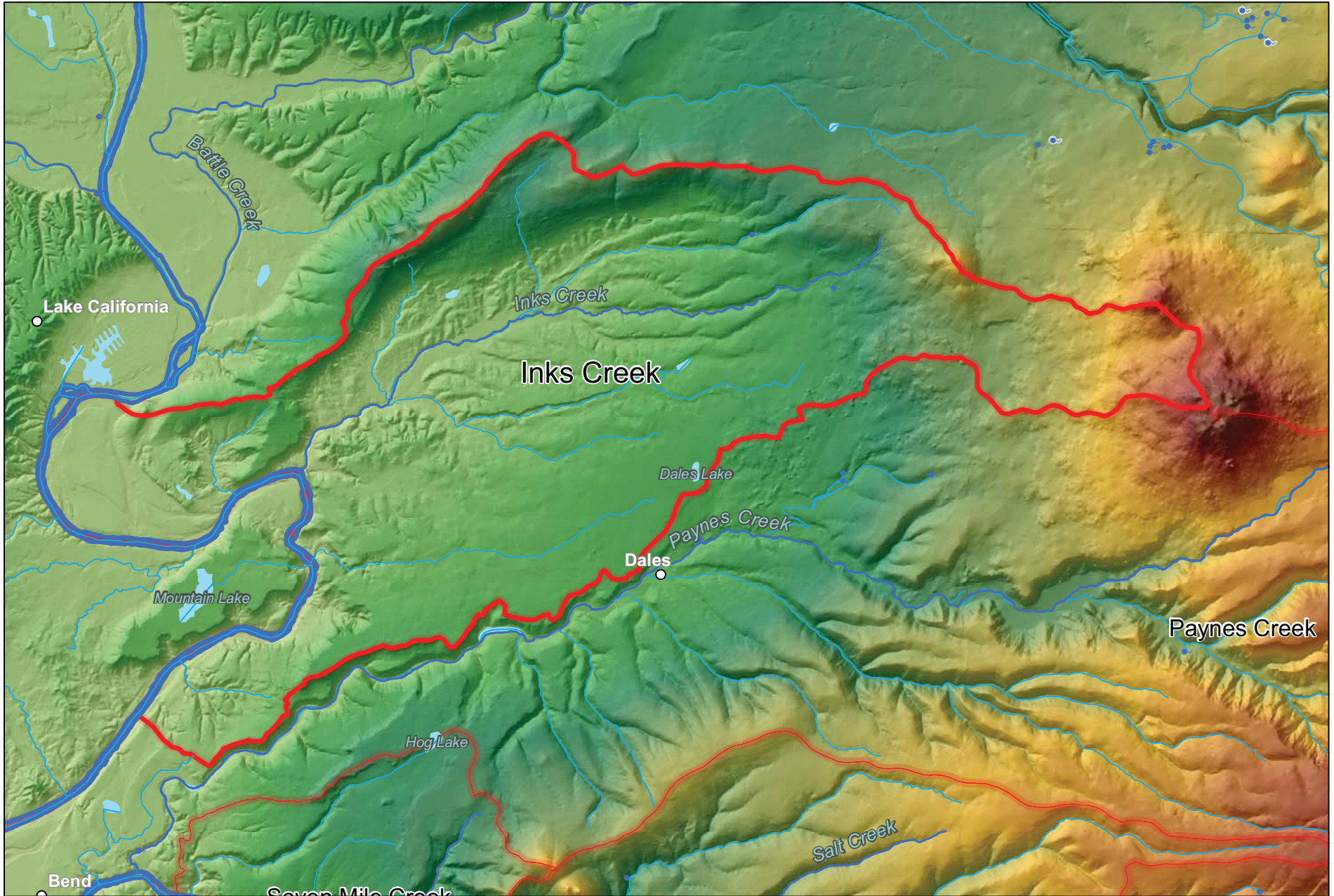
Tehama East Watershed Assessment

NAIP 2009
Inks Creek



Tehama County Resource
Conservation District
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Tehama East Watershed Assessment

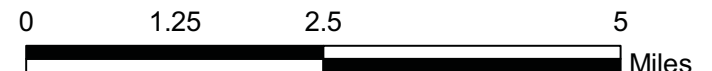
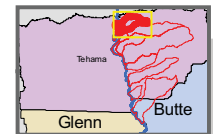
Water Features
National Hydrography Dataset - USGS
Inks Creek

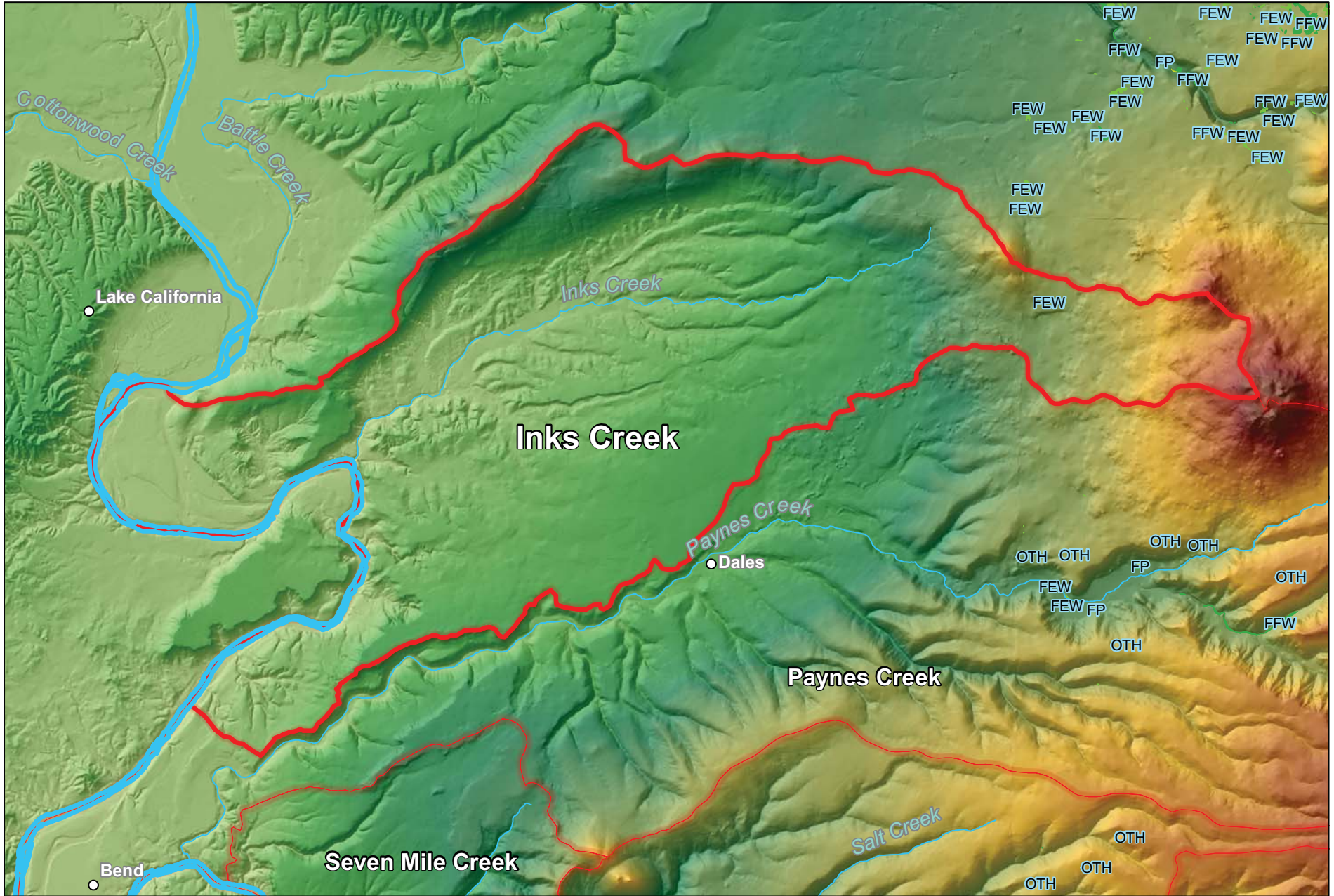
KEY

-  Springs
 -  Canal/Ditch
 -  Streams/Rivers
 -  Lake or Pond
 -  Watershed Boundary
- <http://nhd.usgs.gov/data.html>



Tehama County Resource Conservation District
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Tehama East Watershed Assessment

National Wetland Inventory
 US Fish & Wildlife Service
 Inks Creek

KEY

Wetland Type

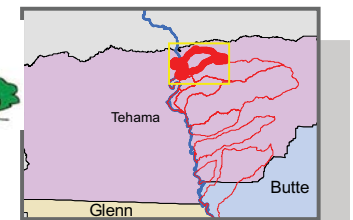
- FEW Freshwater Emergent Wetland
- FFW Freshwater Forested/Shrub Wetland
- FP Freshwater Pond
- LK Lake
- OTH Other
- RIV Riverine

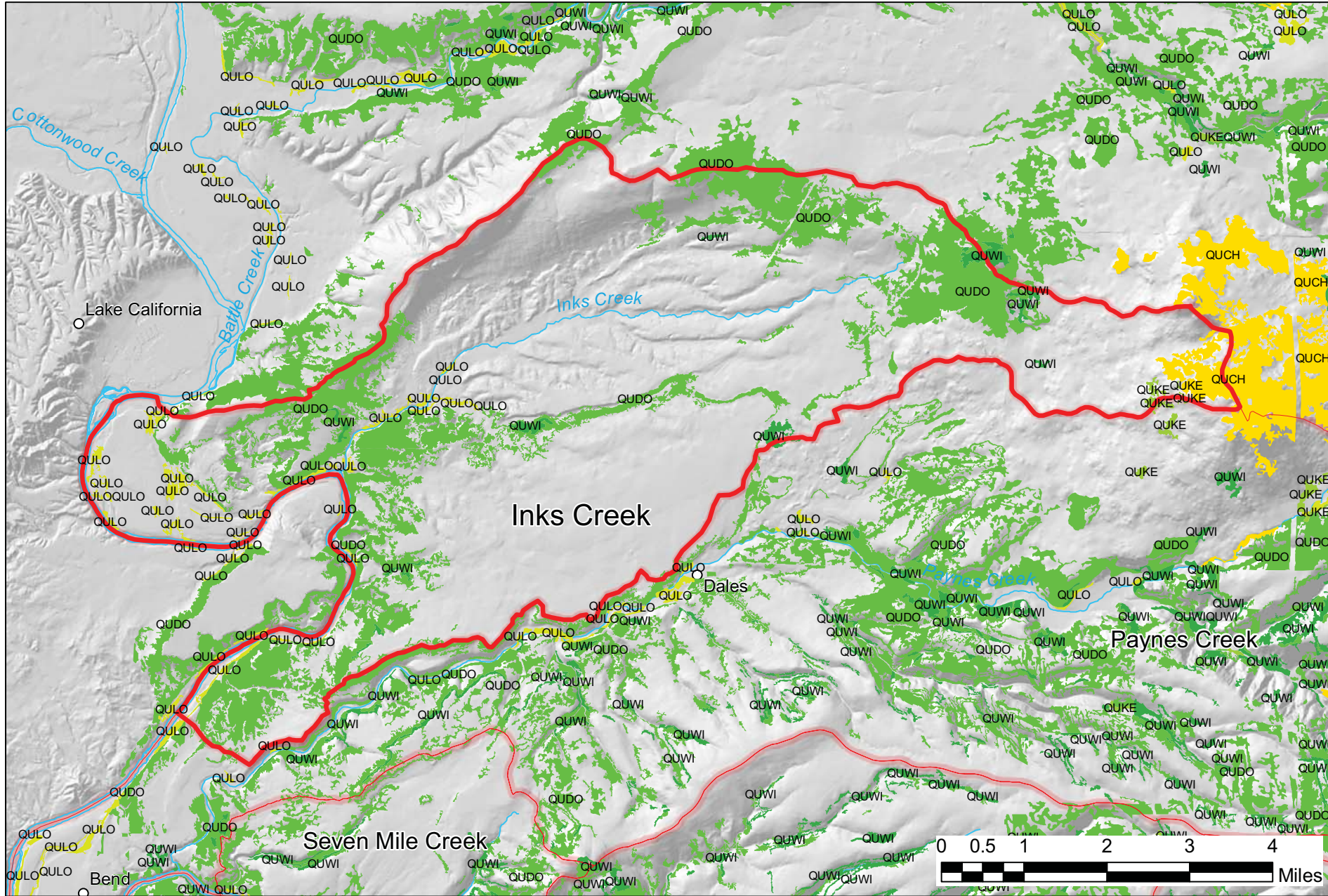
<http://www.fws.gov/wetlands/Data/DataDownload.html>

Watershed Boundary



Tehama County Resource Conservation District
 (c) 2010



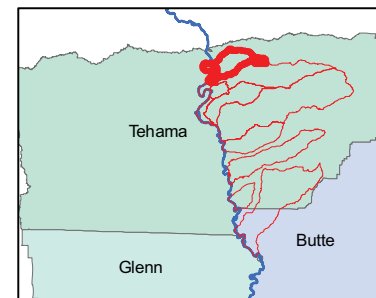
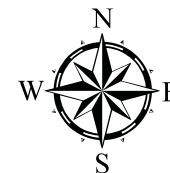


Tehama East Watershed Assessment

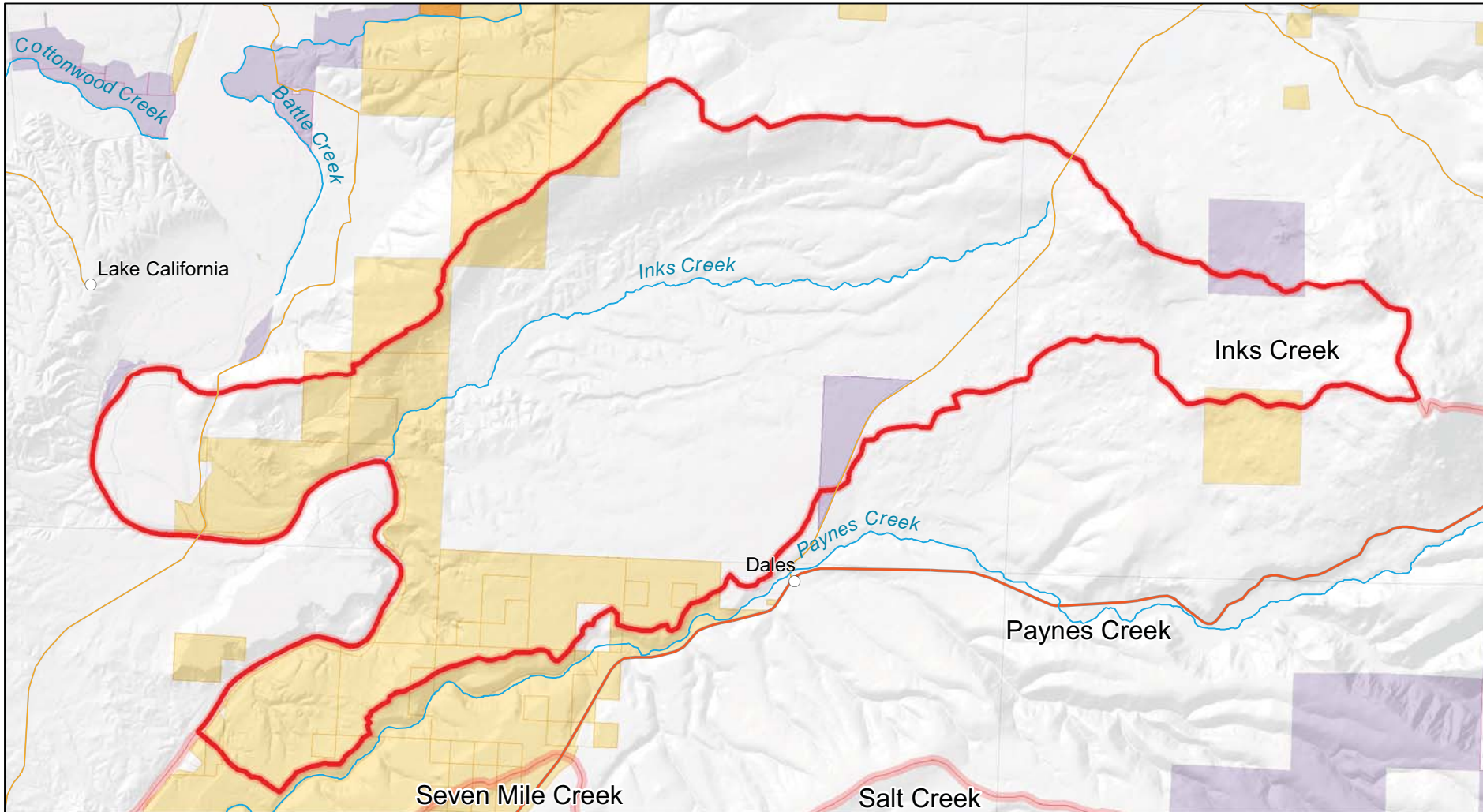
Oak Woodlands TNC, CNPS, TCRCD Special Project Inks Creek

Tehama County Resource Conservation District (c) 2010

- Legend**
- QUWI Quercus wislizeni (Interior Live Oak Tree)
 - QUDO Quercus douglasii (Blue Oak)
 - QUKE Quercus kelloggii (Black Oak)
 - QULO Quercus lobata (Valley Oak)
 - QUCH Quercus chrysolepis (Canyon Live Oak)
 - QUBE Quercus berberidifolia (scrub oak)
 - QUDU Quercus durata (Leather Oak)
 - QUGab Quercus garryana/ var. breweri (Brewer Oak)

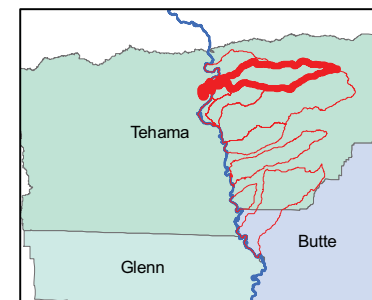
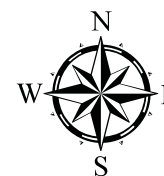


Watershed Boundary



Tehama East Watershed Assessment

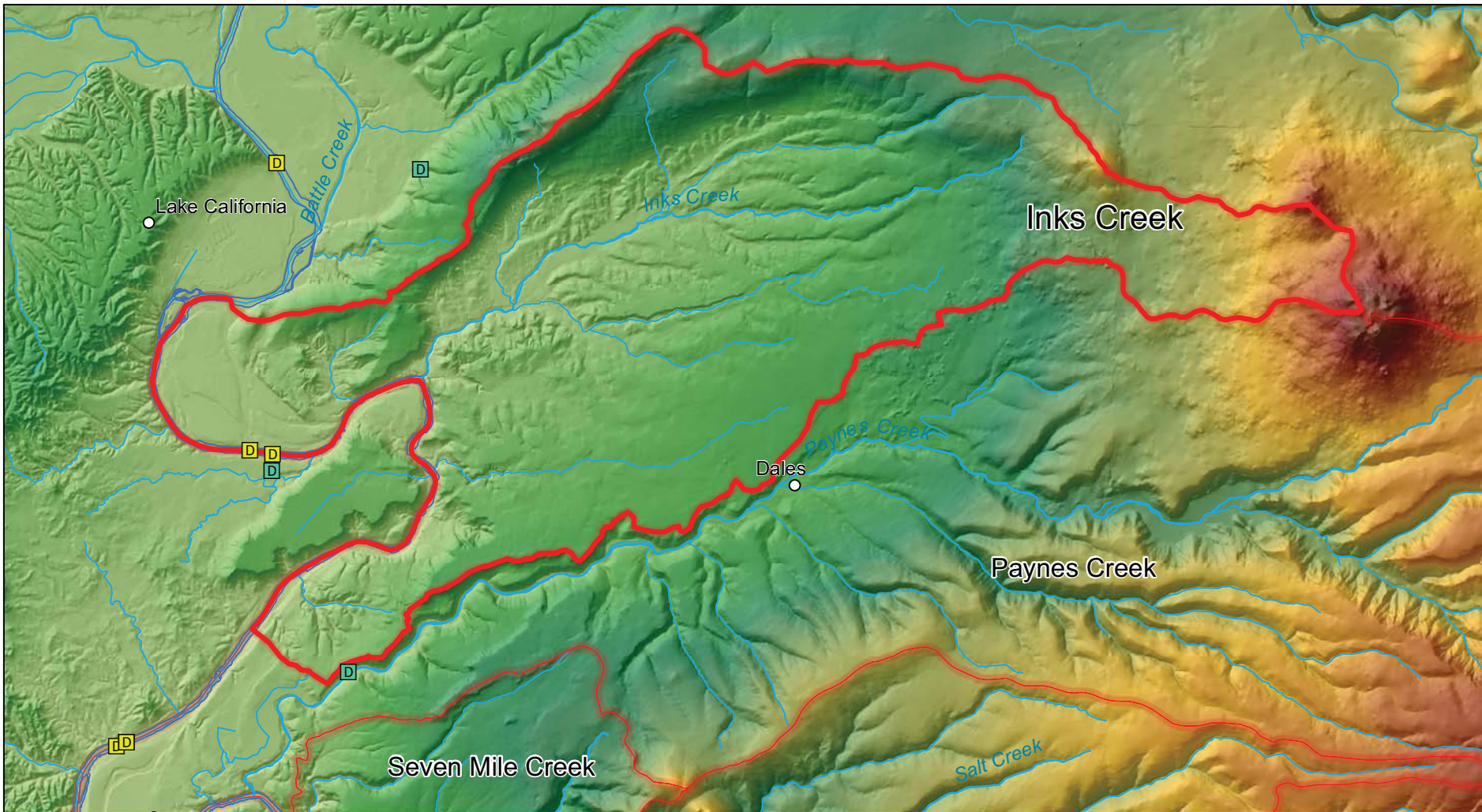
Land Ownership Inks Creek



Legend

- | | | | |
|---|------------------------------|---|------------------------|
|  | State Lands |  | Major Roads & Highways |
|  | US National Forest |  | Urban Areas |
|  | US Bureau of Land Management |  | Watershed Boundary |
|  | US Fish and Wildlife | | |
|  | Private | | |

State: 456 Acres
BLM: 6,218 Acres
Private: 19,504 Acres



Tehama East Watershed Assessment

Passage Assessment Database
Inks Creek



Tehama County Resource
Conservation District
(c) 2010

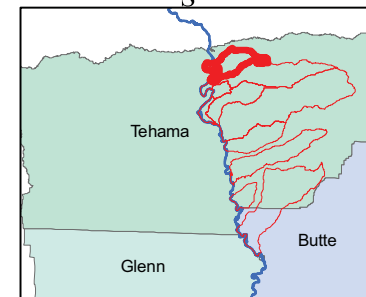
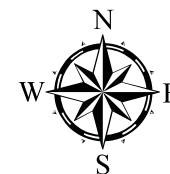
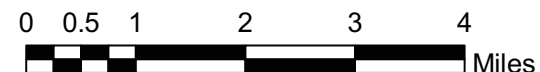
Legend

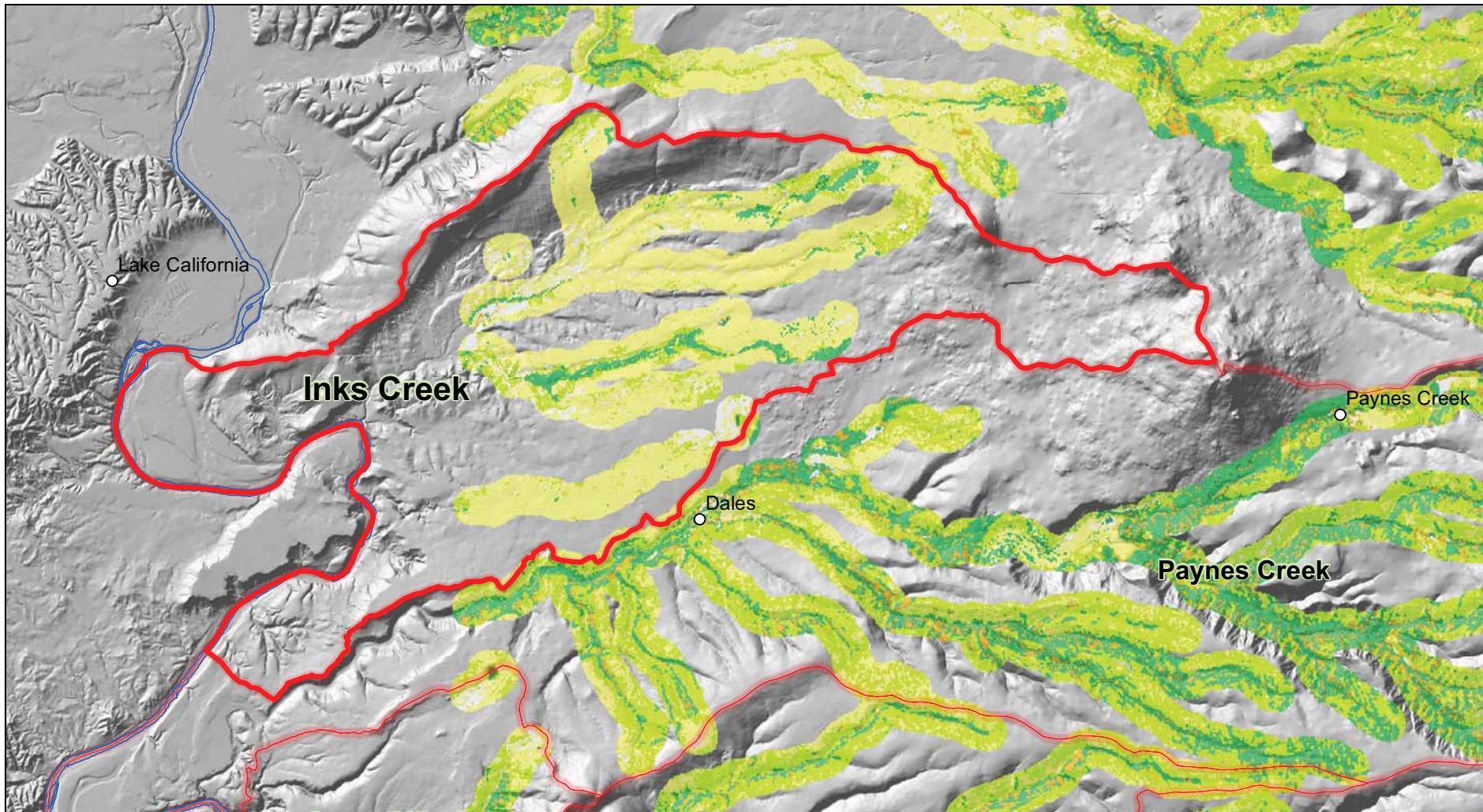
Site Type

- Dam
- Diversion
- Fish trap
- Non-structural
- Road crossing

<http://www.calfish.org/DataampMaps/CalFishDataDownloads/tabid/93/Default.aspx>

Watershed Boundary



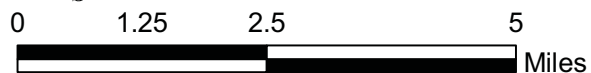


Tehama East Watershed Assessment

Riparian Vegetation
in Hardwood Rangelands
Inks Creek



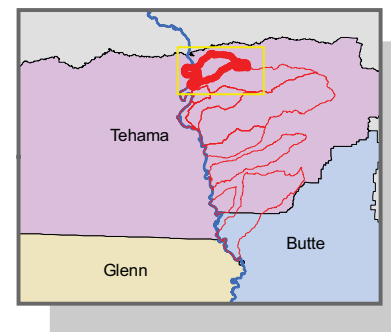
Tehama County Resource Conservation District
(c) 2010

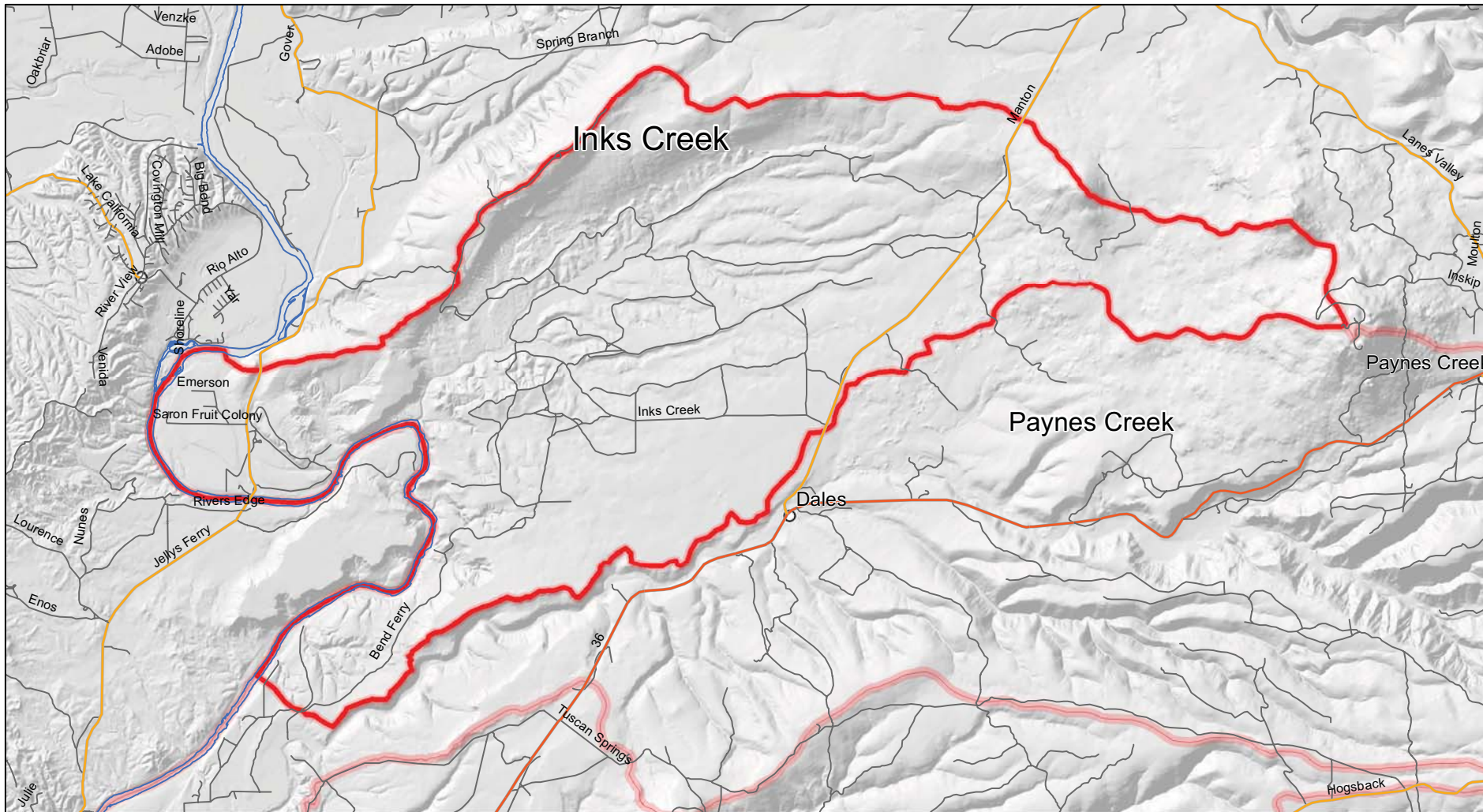


KEY

- Riparian
- Hardwood Range w/<70% Canopy
- Shrub
- Conifer
- Herbaceous
- Water
- Other: Urban, Marsh, Rock, Barren

Watershed Boundary



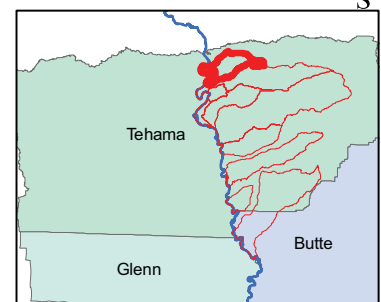


Tehama East Watershed Assessment

Roadways
Inks Creek

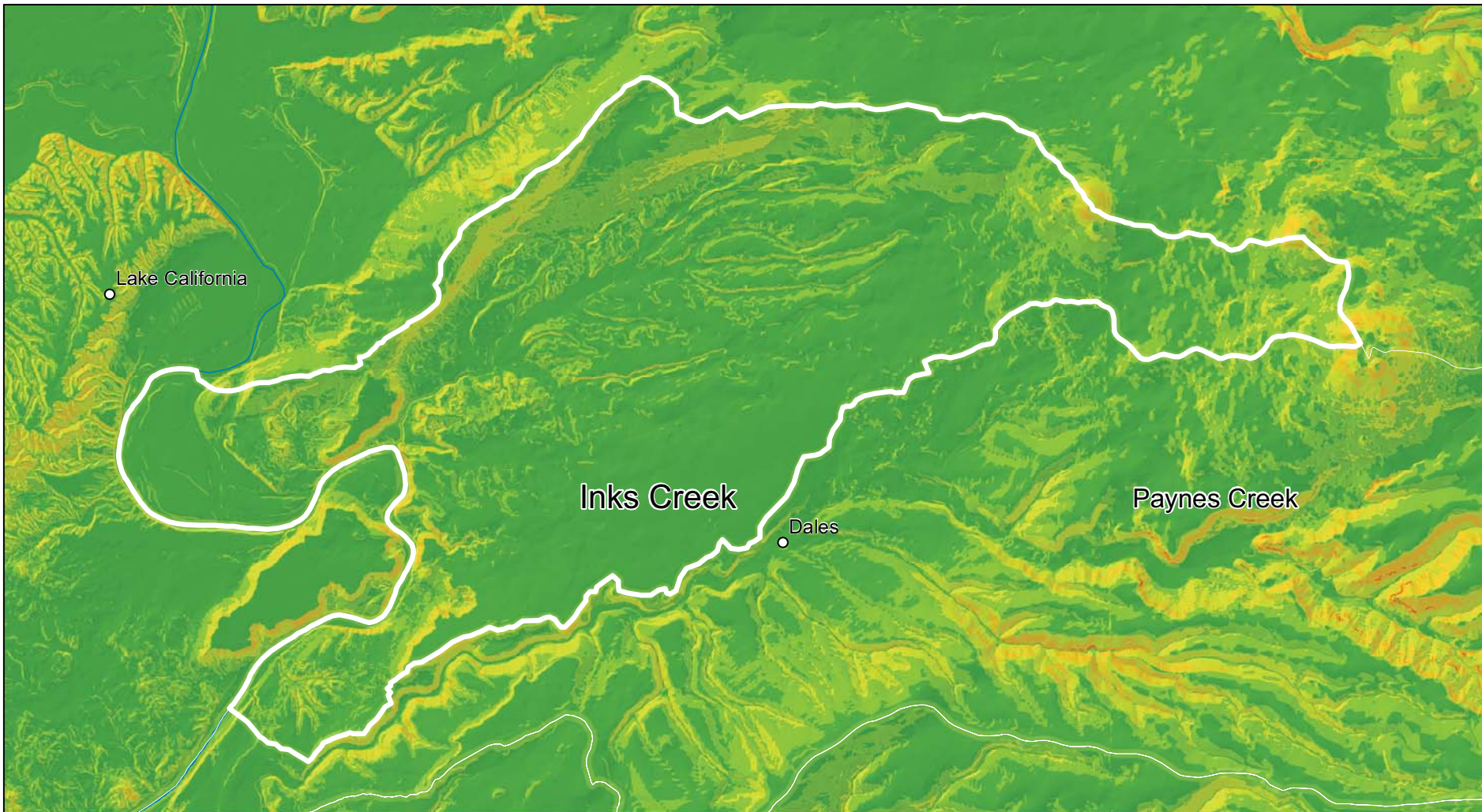


Tehama County Resource
Conservation District
(c) 2010




Legend

- | | | | |
|----------------|------------|----------------|--------------------|
| Limited Access | Local Road | Ramp | Urban Areas |
| Highway | Minor Road | Ferry | Watershed Boundary |
| Major Road | Other Road | Pedestrian Way | |









Tehama East Watershed Assessment

Percent Slope Inks Creek

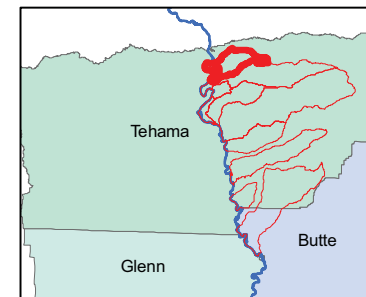
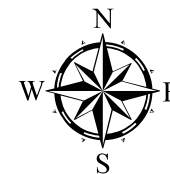

 Tehama County Resource
 Conservation District
 (c) 2010

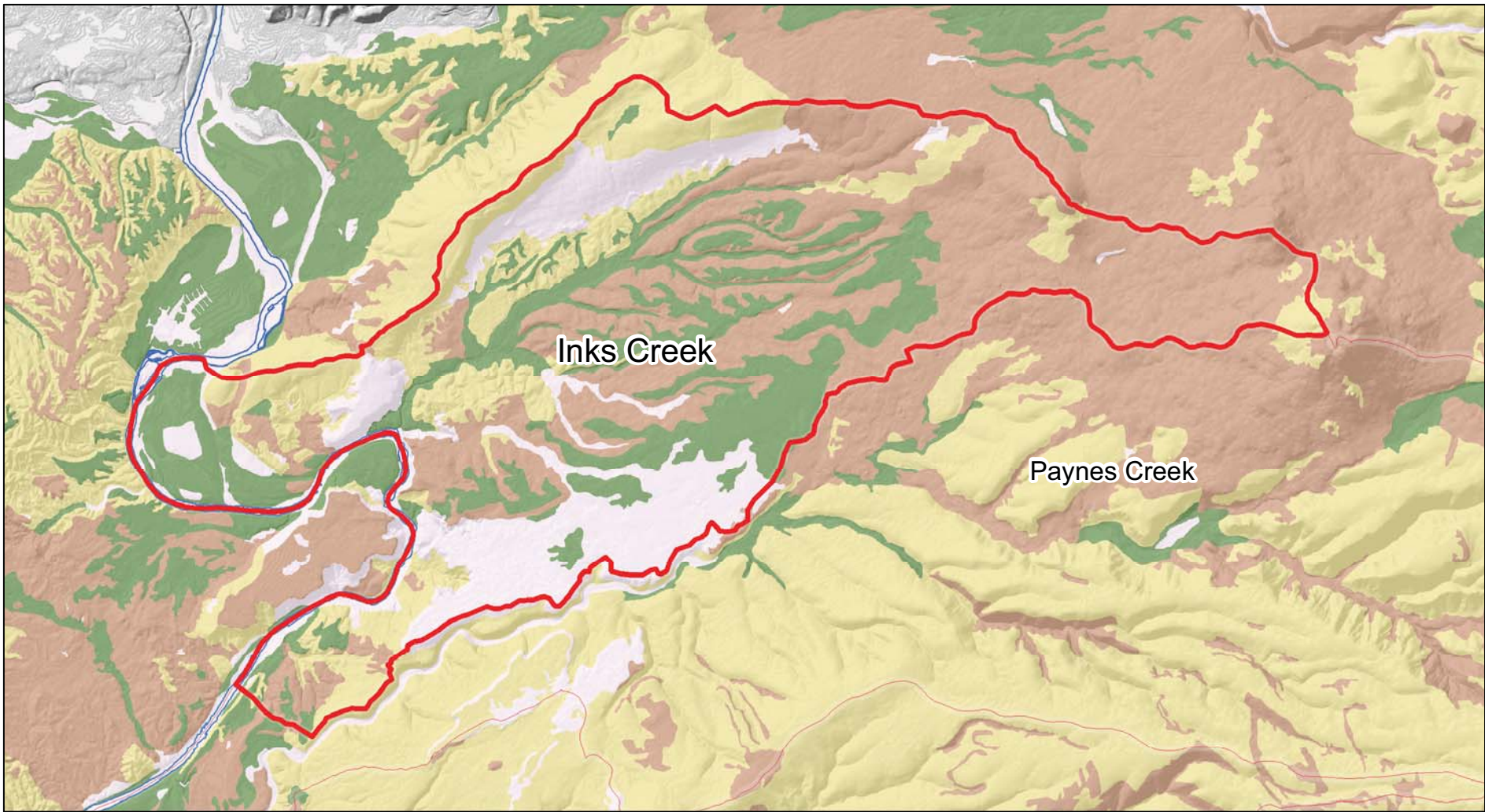
Legend

Percent Slope

-  0 - 2 Percent
-  2 - 5 Percent
-  5 - 10 Percent
-  10 - 20 Percent
-  20 - 50 Percent
-  50 - 100 Percent

 Watershed Boundary





Tehama East Watershed Assessment

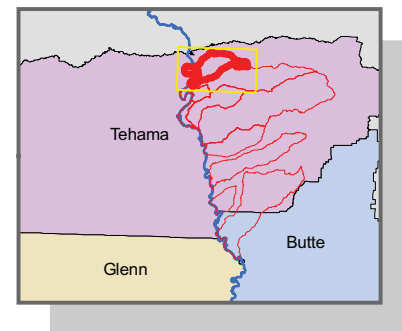
NRCS Soils Highly Erodible Soils
Inks Creek

KEY

Highly Erodible Land Classification

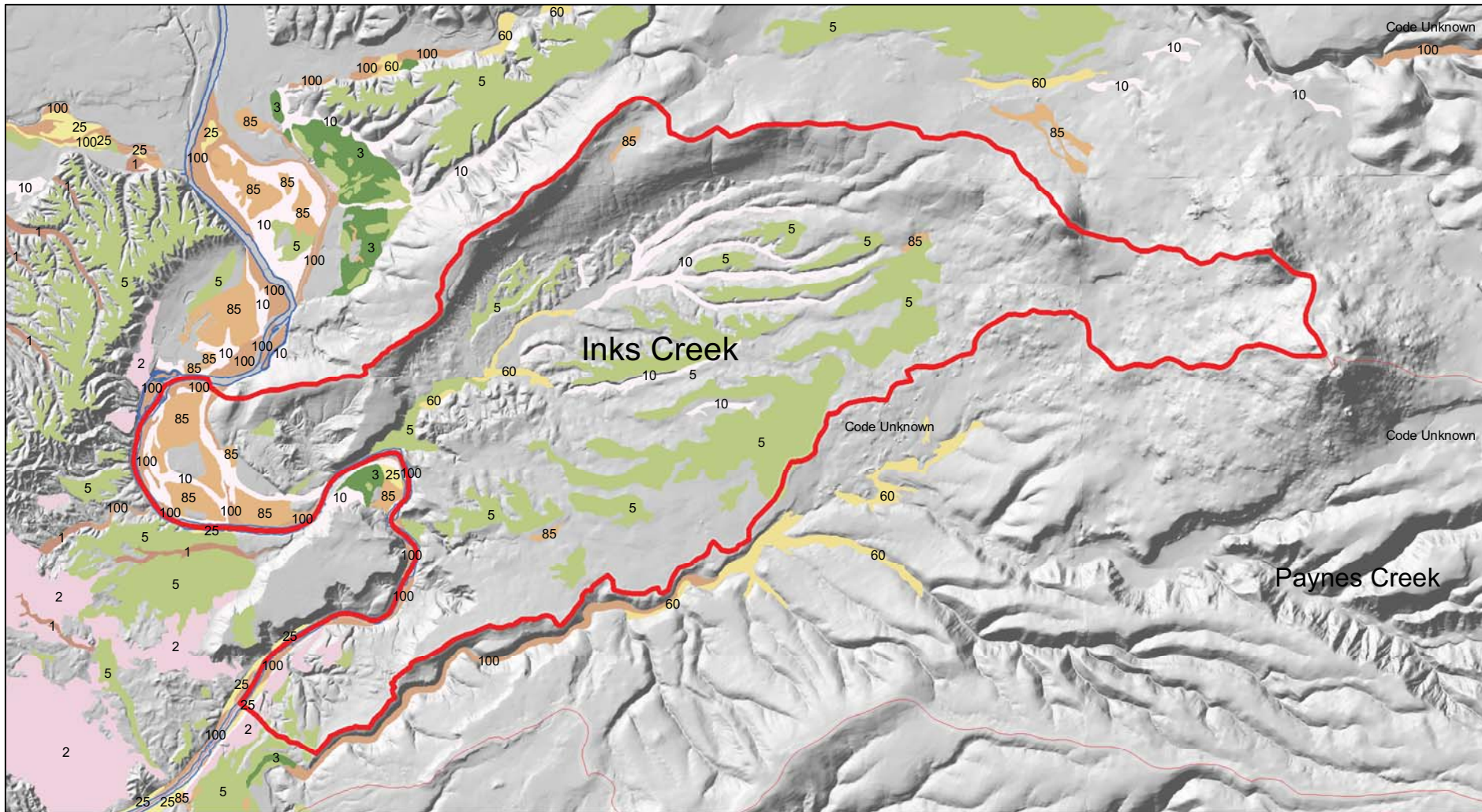
- 1
- 2
- 3
- Code Unknown

Watershed Boundary



Tehama County Resource Conservation District
(c) 2010



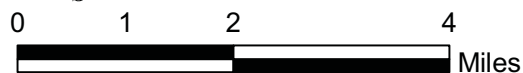


Tehama East Watershed Assessment

NRCS Soils Hydric Soils
Inks Creek



Tehama County Resource Conservation District
(c) 2010



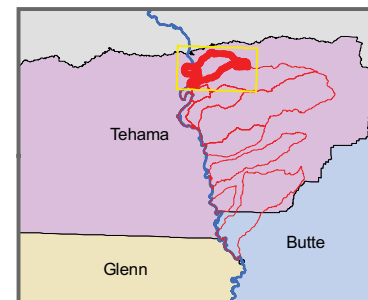
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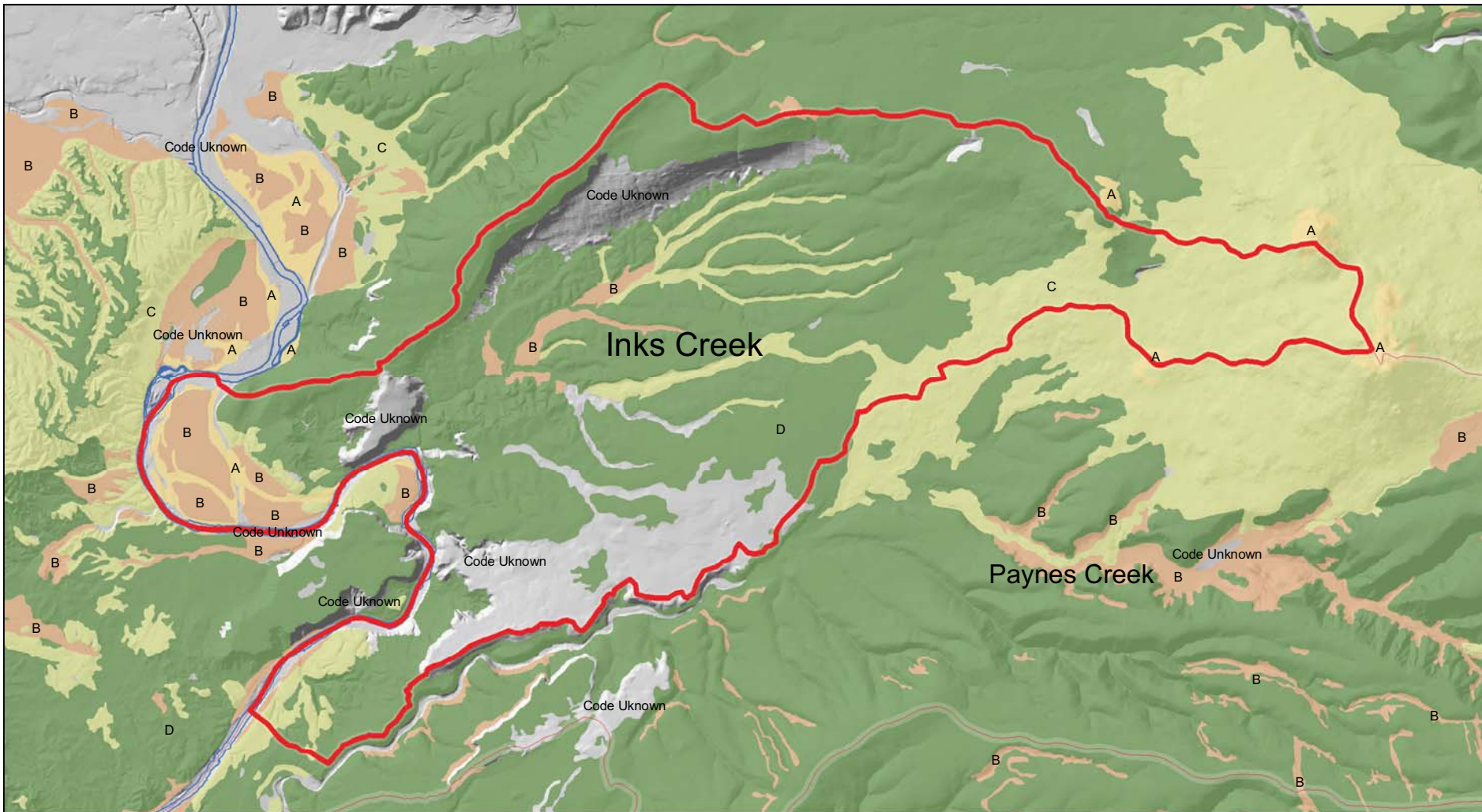
Hydric Percentage

- 1
- 2
- 3
- 5
- 10
- 25
- 35

- 40
- 60
- 85
- 100
- C
- CX
- X
- Code Unknown

Watershed Boundary





Tehama East Watershed Assessment

NRCS Soils Hydrologic Group
Inks Creek



Tehama County Resource Conservation District
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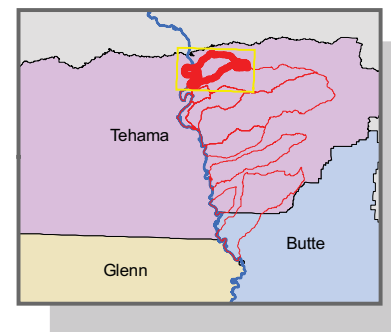
KEY

Hydrologic Group

- A
- B
- C
- D

Code Unknown

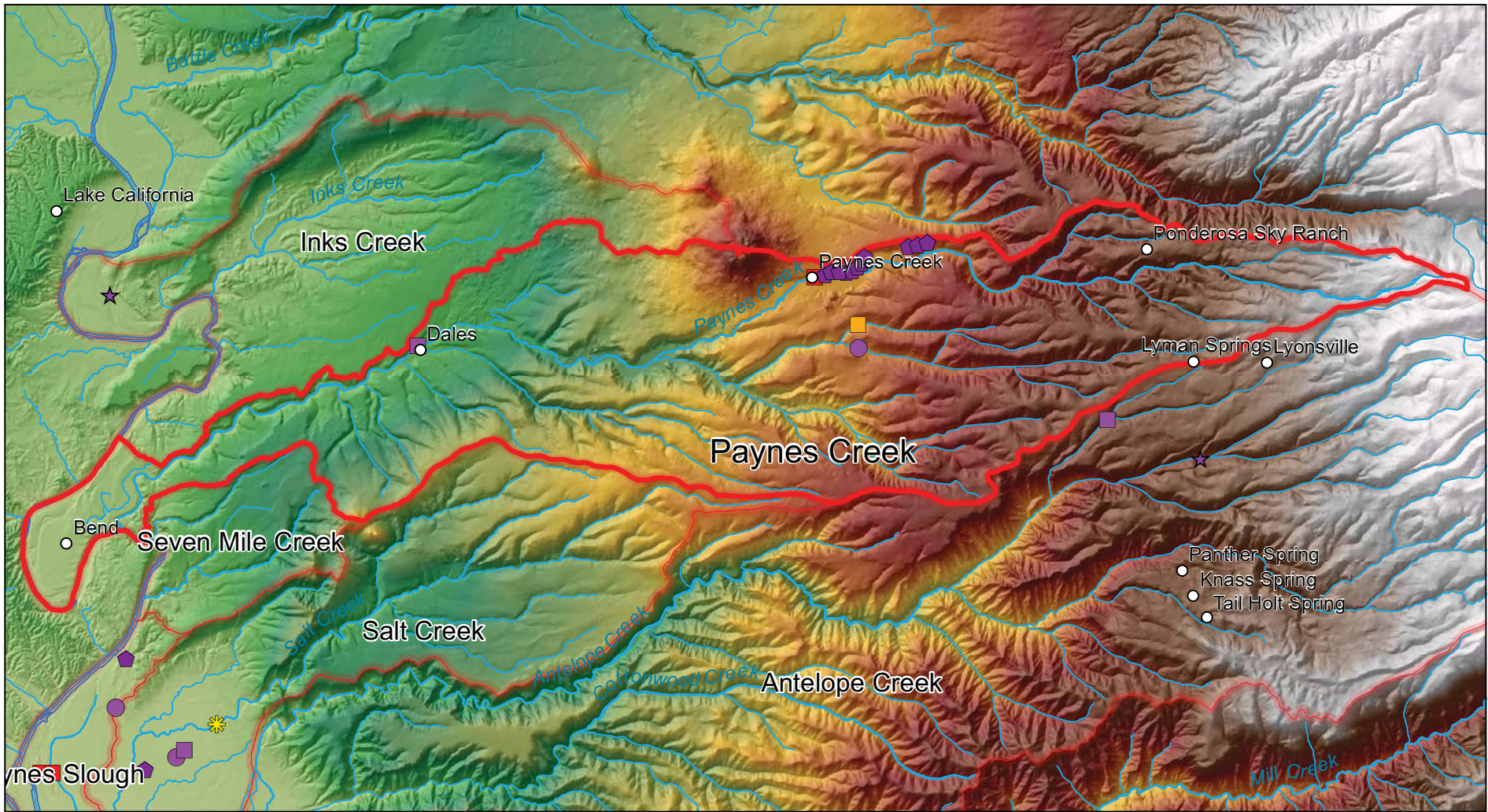
Watershed Boundary



Maps by Watersheds

Paynes Creek Watersheds

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Soils: Hydric Soils	395
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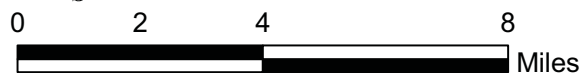


Tehama East Watershed Assessment

Bridges, Culverts, Pipes, and Slabs
Paynes Creek



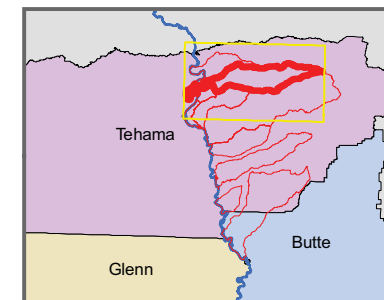
Tehama County Resource Conservation District
(c) 2010

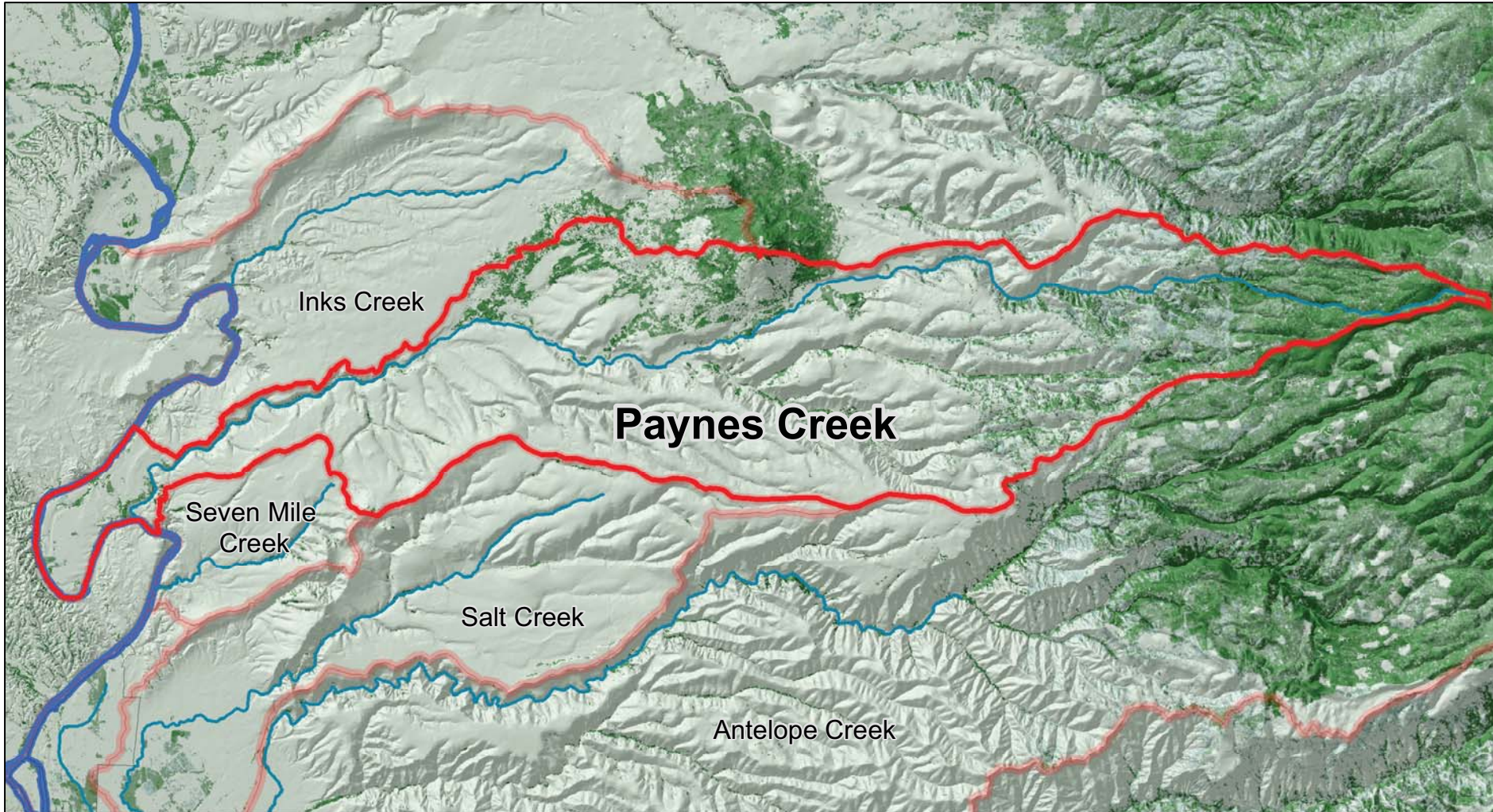


KEY

- | | |
|----------------------------|----------------------------|
| ■ Bridge-Abandoned | ● Culvert-Green |
| ■ Bridge-Green | ◀ Culvert-Orange/Green |
| ■ Bridge-Orange | ● Culvert-Purple |
| ■ Bridge-Purple | ● Culvert-Yellow |
| ▶ Bridge-Purple/Green | ○ Pipe-Purple (Non County) |
| ▶ Bridge-Purple/Orange | ● Pipe-Abandoned |
| ■ Bridge-Red | ● Pipe-Purple |
| ■ Bridge-Yellow | ★ Slab-Abandoned |
| ★ Bridge-Yellow (One Lane) | ★ Slab-Purple |

⬭ Watershed Boundary

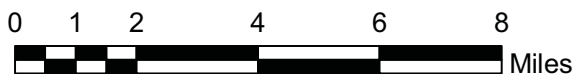




Tehama East Watershed Assessment

CANOPY COVER






Paynes Creek






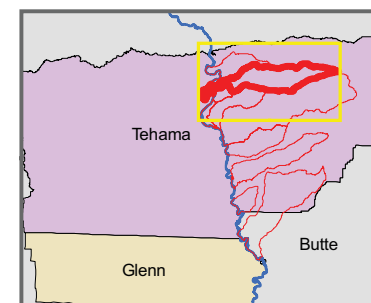
(c) 2010

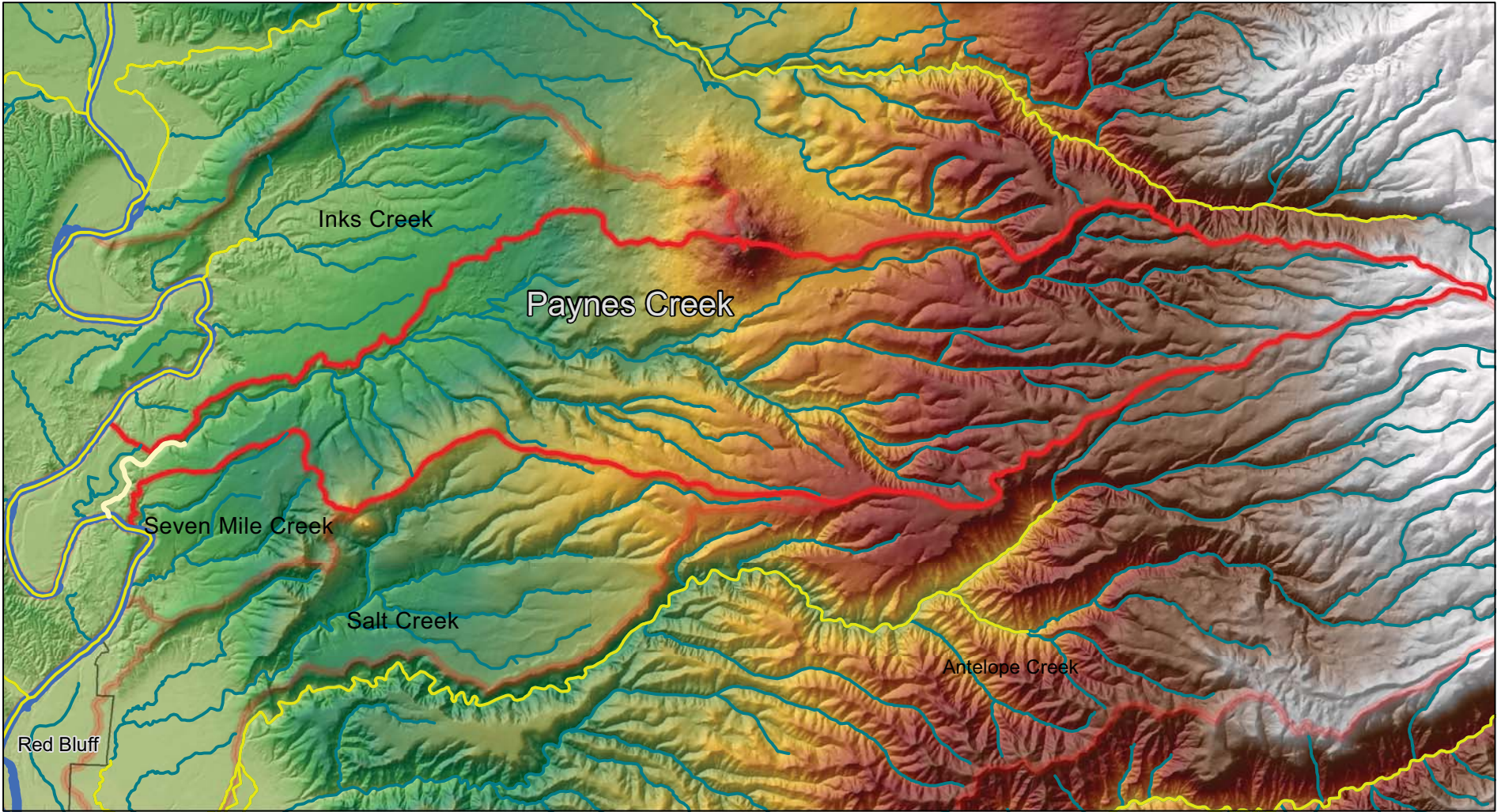
KEY

Canopy Cover Percent

-  0 - 15%
-  15 - 41%
-  41 - 60%
-  60 - 76%
-  76 - 100%

-  Urban Areas
-  Streams/Rivers
-  Watershed Boundary



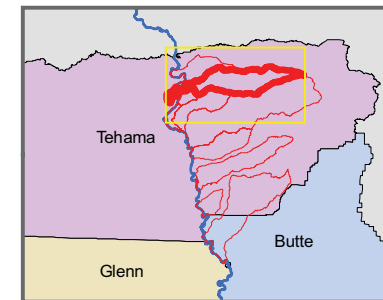


Tehama East Watershed Assessment

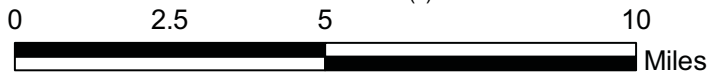
Critical Habitat - Spring-Run Chinook Paynes Creek

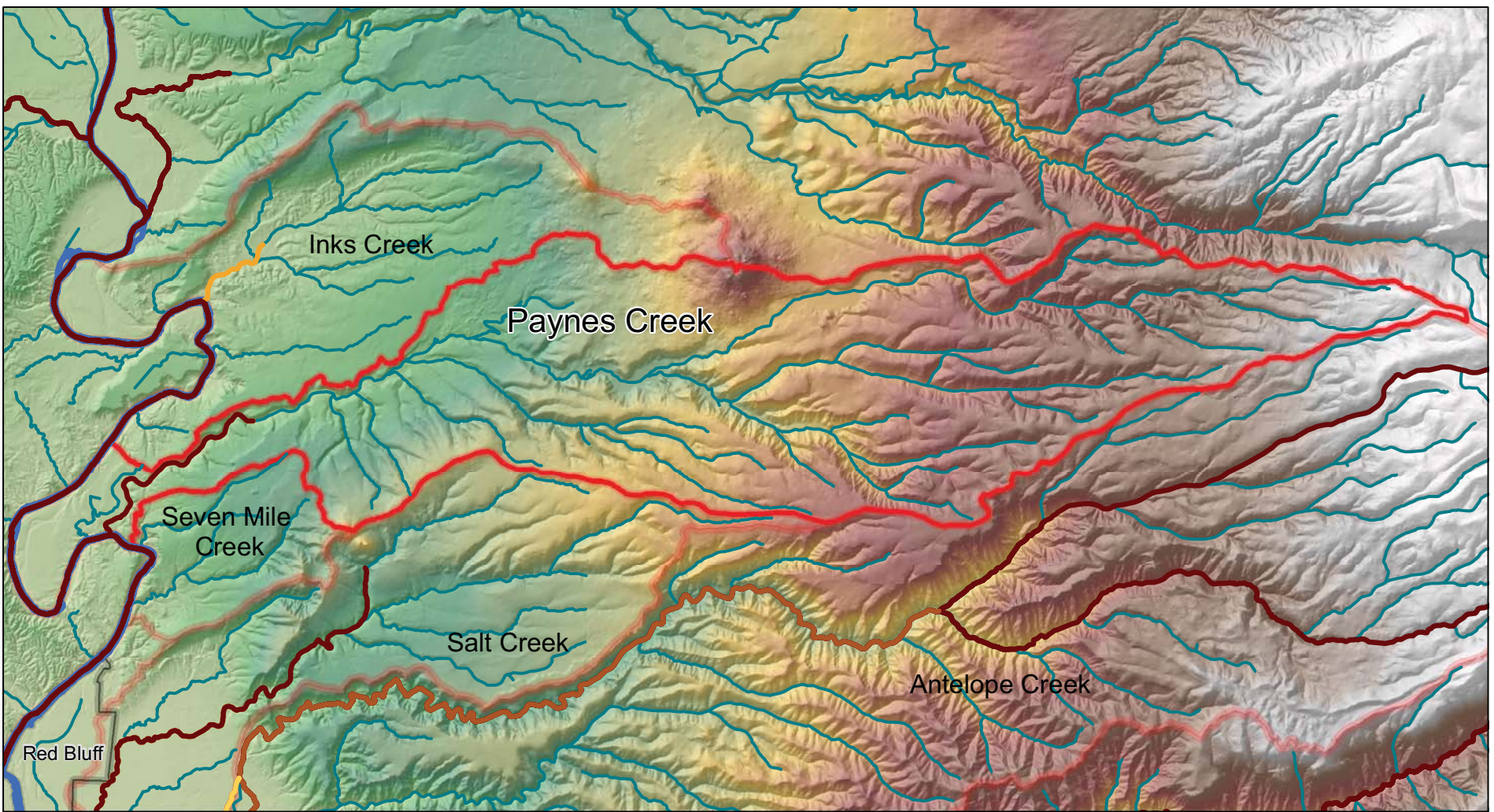
KEY

- Critical Habitat - Spring-Run Chinook
- Springs/Rivers
- Urban Areas
- Watershed Boundary



Tehama County Resource
Conservation District
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Tehama East Watershed Assessment




Chinook Surveys By Year Paynes Creek



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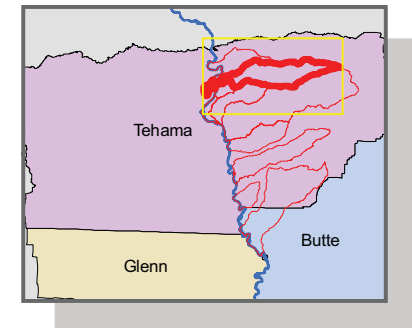


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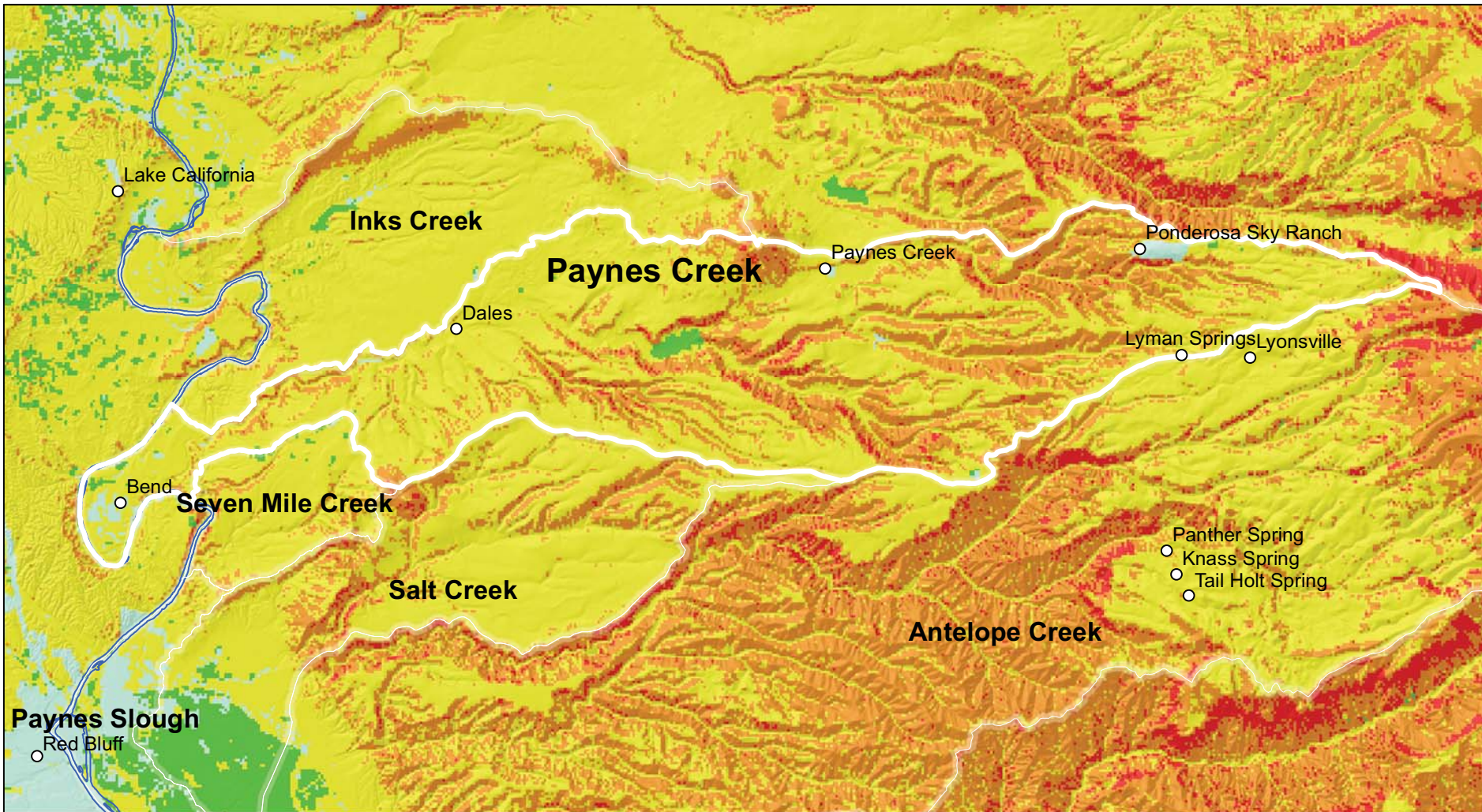
-  Streams/Rivers
-  Urban Areas
-  Watershed Boundary

Year of Survey

-  1959 - 1970
-  1971 - 1986
-  1987 - 1993
-  1994 - 1998
-  1999 - 2003



<http://www.calfish.org/DataampMaps/CalFishDataDownloads/tabid/93/Default.aspx>

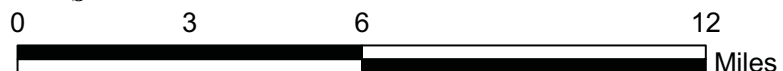


Tehama East Watershed Assessment

Post-fire Erosion Potential Paynes Creek








Tehama County Resource Conservation District
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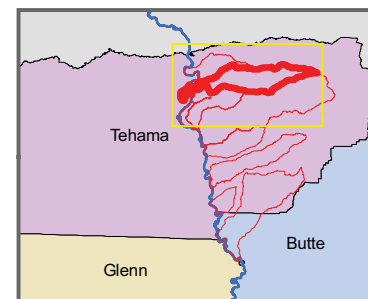
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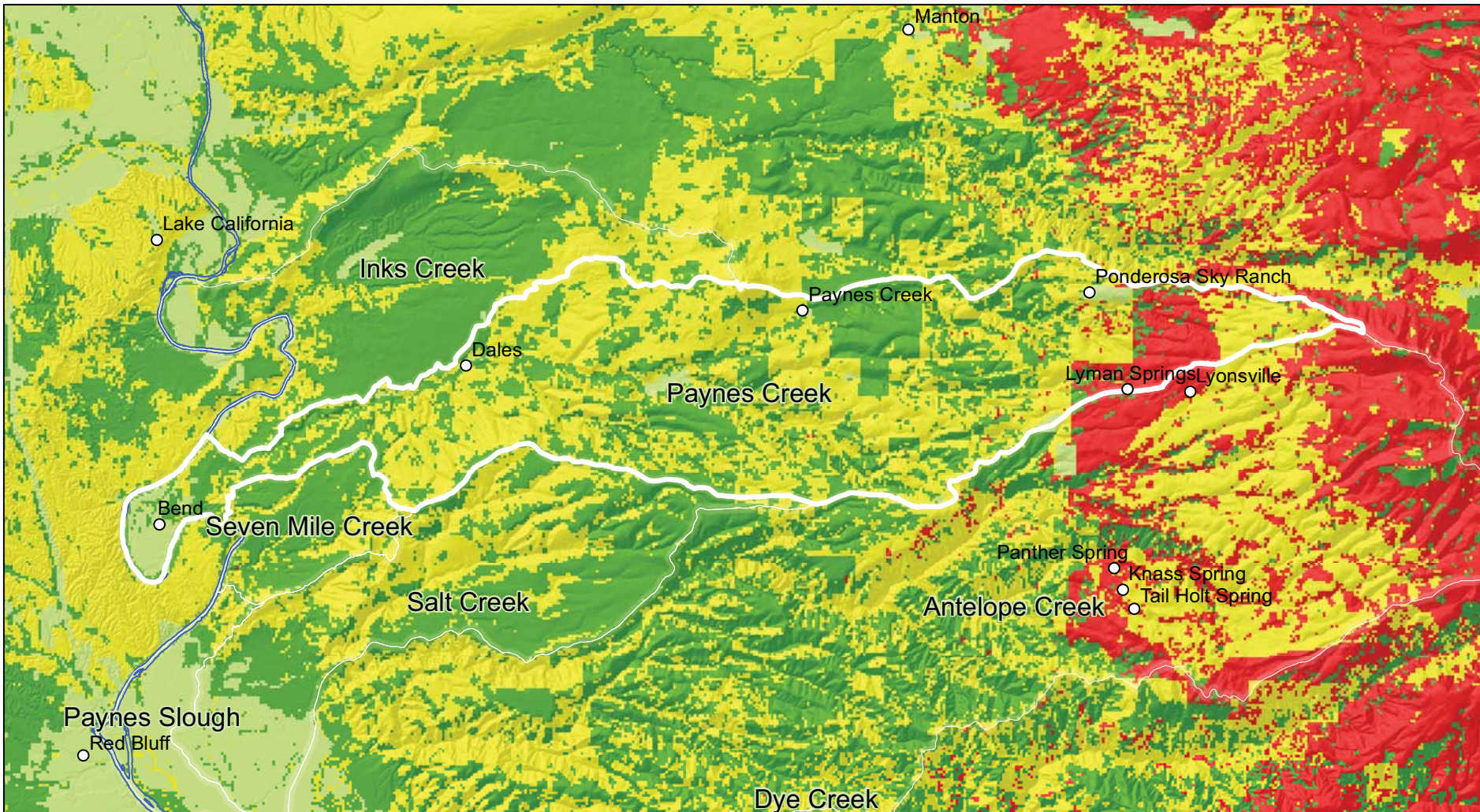
Erosion Classification

-  -1 : Areas without a Fuel Rank (generally Ag or Barren)
-  0 : Water and Urban areas outside scope of analysis
-  1 : Low
-  2 : Moderate
-  3 : High

<http://frap.cdf.ca.gov/data/frapgisdata/download.asp?spatialdist=1&rec=perod>

 Watershed Boundary



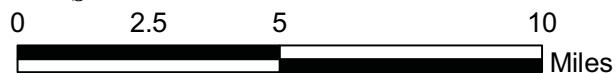


Tehama East Watershed Assessment

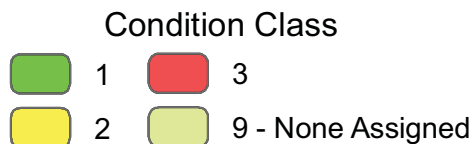
Fire Regime and Condition Class
Condition Class
Paynes Creek



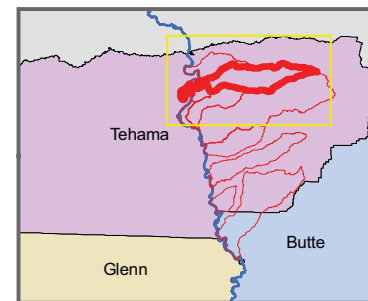
Tehama County Resource Conservation District
(c) 2010

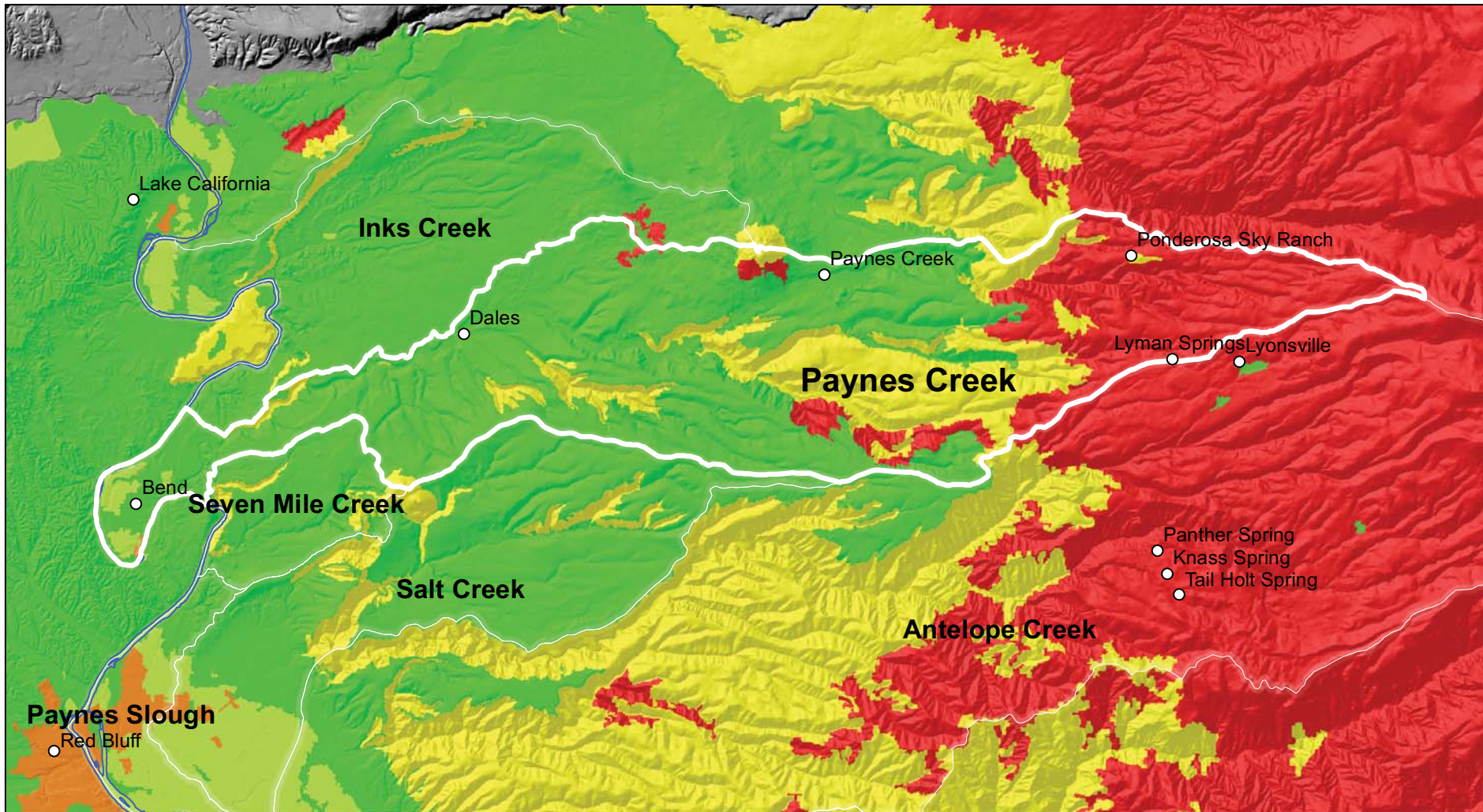


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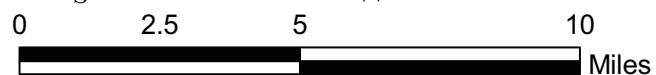


Tehama East Watershed Assessment

Fire Hazard Severity Zoning
2007 DRAFT - FRAP
Paynes Creek



Tehama County Resource Conservation District
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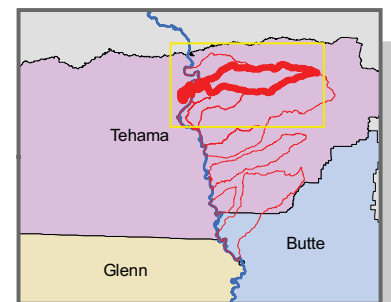


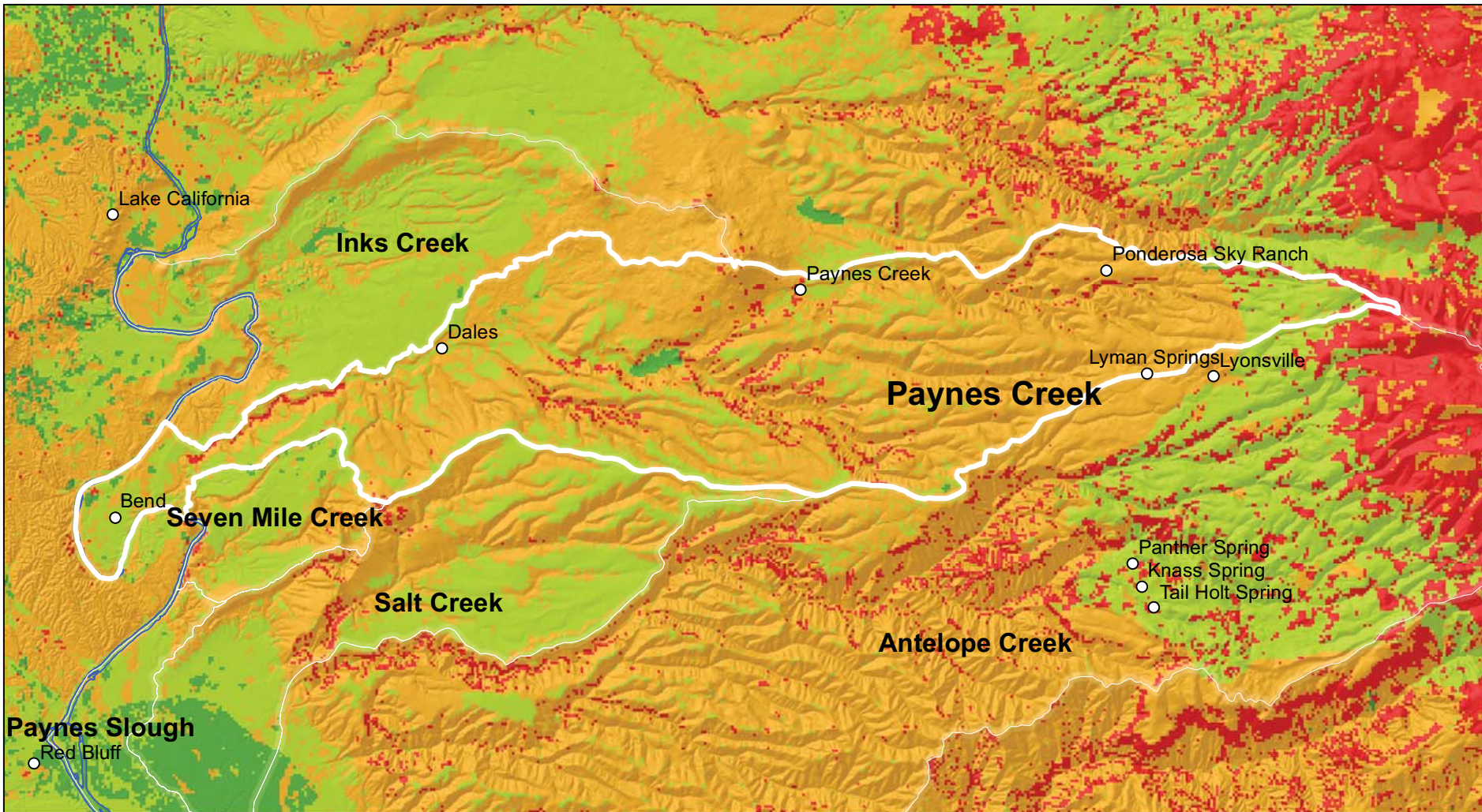
KEY

Hazard Class

- Moderate
- High
- Very High
- Non-Wildland/Non-Urban
- Urban Unzoned

Watershed Boundary



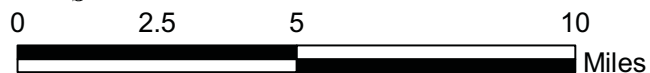


Tehama East Watershed Assessment

Fire Regime and Condition Class
 Fuel Ranking
 Paynes Creek



Tehama County Resource Conservation District
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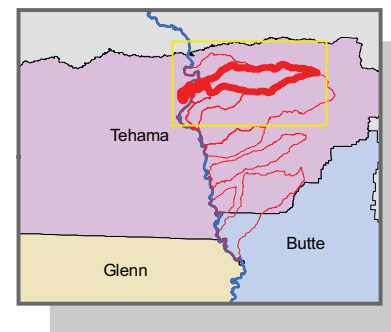
KEY

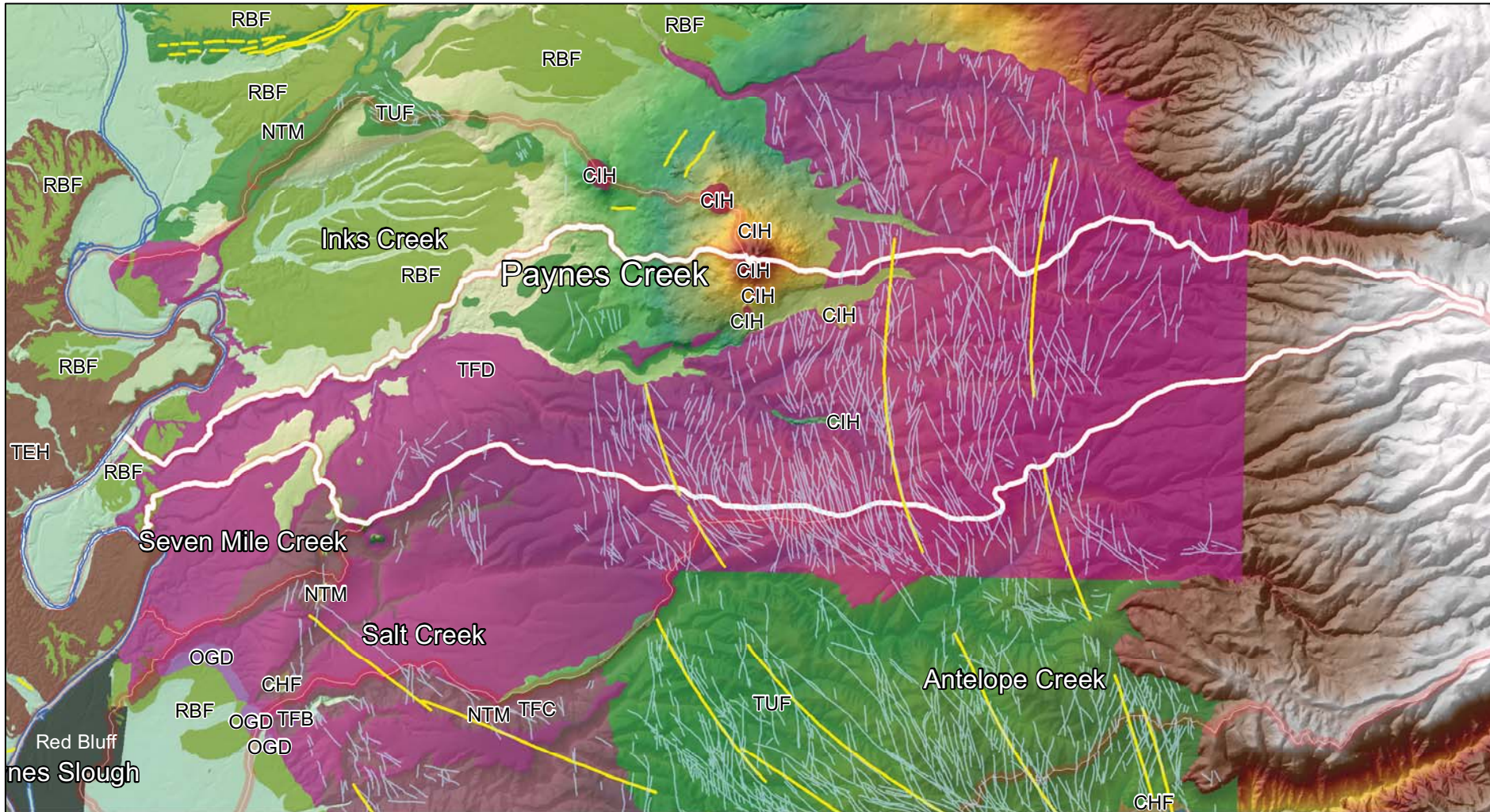
Fuel Ranking

- 1 - Little or No Hazard
- 1 - Moderate Hazard
- 2 - High Hazard
- 3 - Very High Hazard

<http://frap.cdf.ca.gov/data/frapgisdata/download.asp?spatialdist=1&rec=cafrcc>

Watershed Boundary





Tehama East Watershed Assessment

Selected Geological Formations, Fault Lines and Monoclines Paynes Creek

Legend

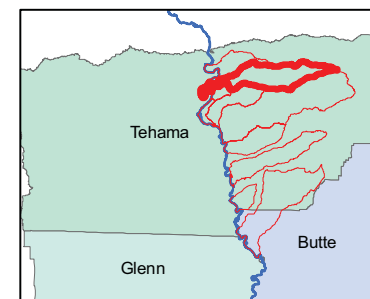
Selected Geology

- | | | | |
|-----|------------------------------------|-----|---|
| CHF | Chico Formation | TAI | Tailings |
| CBB | Cinder Cone Deposits, Black Butte | TEH | Tehama Formation |
| CDB | Cinder Cone Deposits, Digger Butte | TUF | Tuscan Formation |
| CIH | Cinder Cone Deposits, Inskipp Hill | TFU | Tuscan Formation, Undifferentiated Unit A & B |
| LAN | Landslides | TFA | Unit A, Tuscan Formation |
| LOB | Lovejoy Basalt | TFB | Unit B, Tuscan Formation |
| NTM | Nomlaki Tuff Member | TFC | Unit C, Tuscan Formation |
| OGD | Older Gravel Deposits | TFD | Unit D, Tuscan Formation |
| RBF | Red Bluff Formation | | |

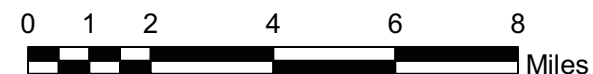
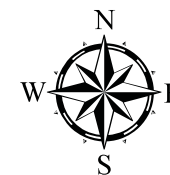
- Chico Monocline Lineaments
- Fault Lines

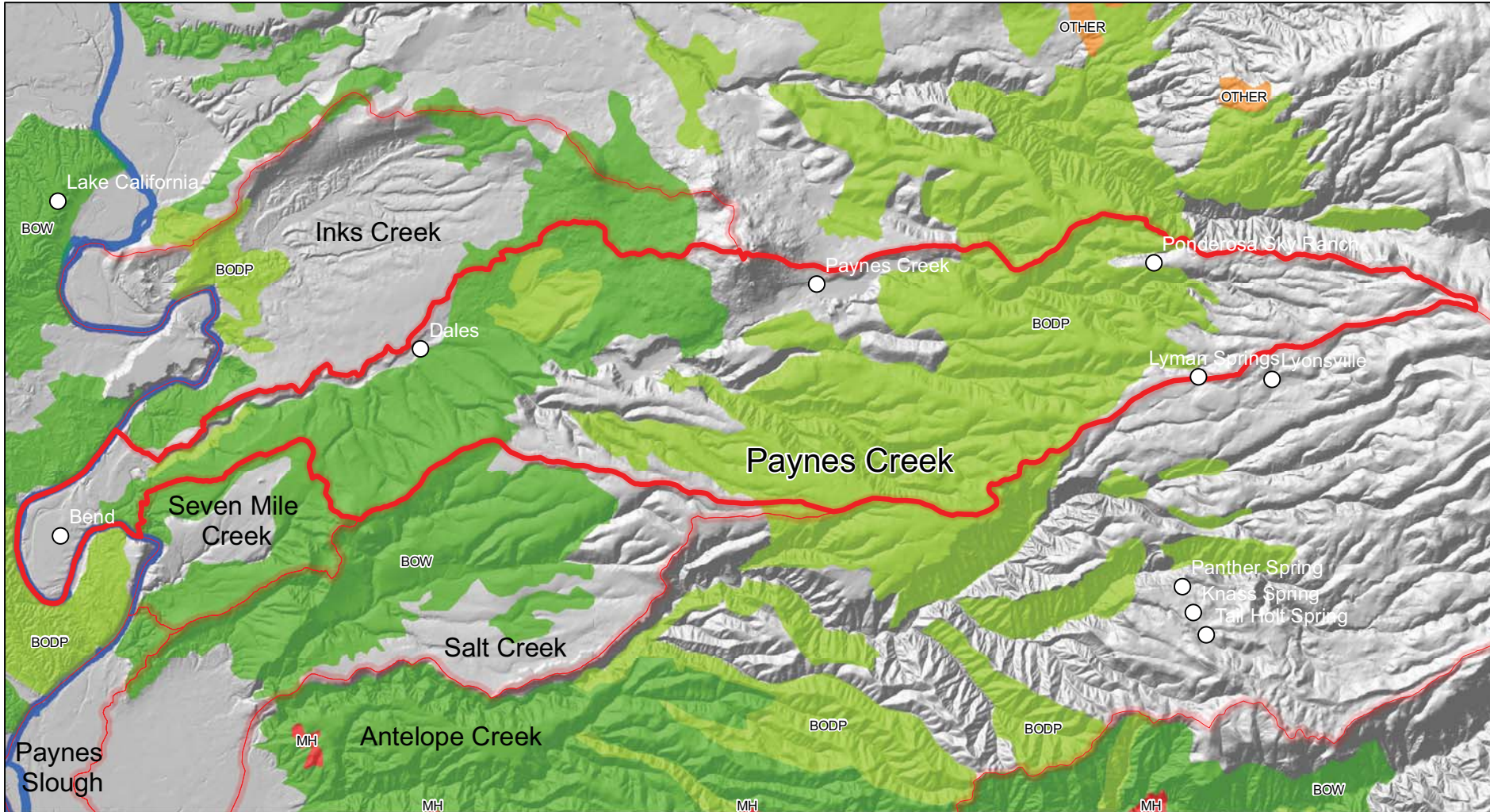
<http://projects.atlas.ca.gov/projects/sacvalleygeol>

- Urban Areas
- Watershed Boundary



4/2010



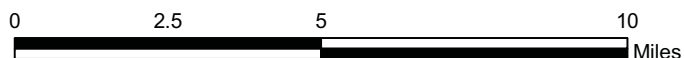


Tehama East Watershed Assessment

Hardwood Rangelands Paynes Creek



Tehama County Resource Conservation District
(c) 2010



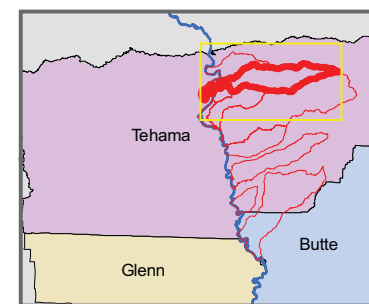
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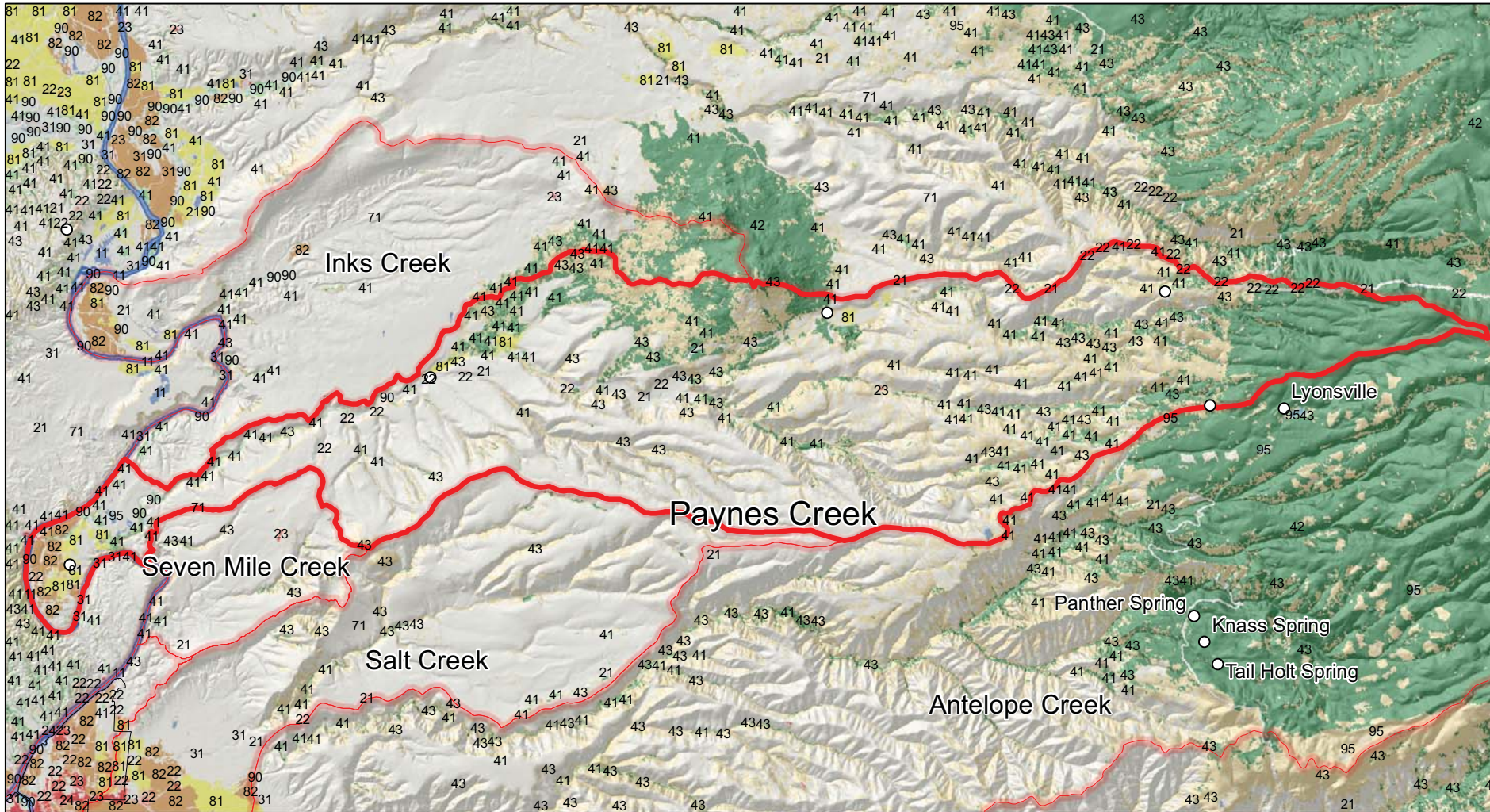
Cover Type

- BODP - Blue Oak \ Foothill Pine
- BOW - Blue Oak Woodland
- MH - Montane Hardwoods
- OTHER - Non-Hardwood
- VOW - Valley Oak Woodland

- Watershed Boundary
- Streams/Rivers
- Communities

<http://frap.cdf.ca.gov/data/fraggisdata/download.asp?rec=hardwoods>





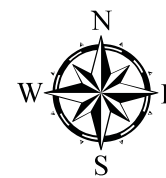
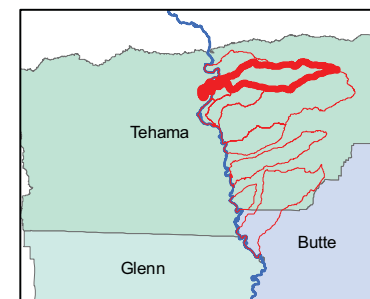
Tehama East Watershed Assessment

Legend

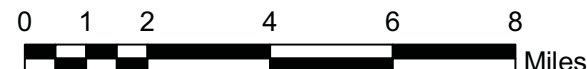
- | | |
|----------------------------------|-----------------------------------|
| 11 - Open Water | 52 - Shrub/Scrub |
| 21 - Developed, Open Space | 71 - Grasslands/Herbaceous |
| 22 - Developed, Low Intensity | 81 - Pasture/Hay |
| 23 - Developed, Medium Intensity | 82 - Cultivated Crops |
| 24 - Developed, High Intensity | 90 - Woody Wetlands |
| 31 - Bare Rock/Sand/Clay | 95 - Emergent Herbaceous Wetlands |
| 41 - Deciduous Forest | |
| 42 - Evergreen Forest | |
| 43 - Mixed Forest | |

Land Cover National Land Cover Database Paynes Creek

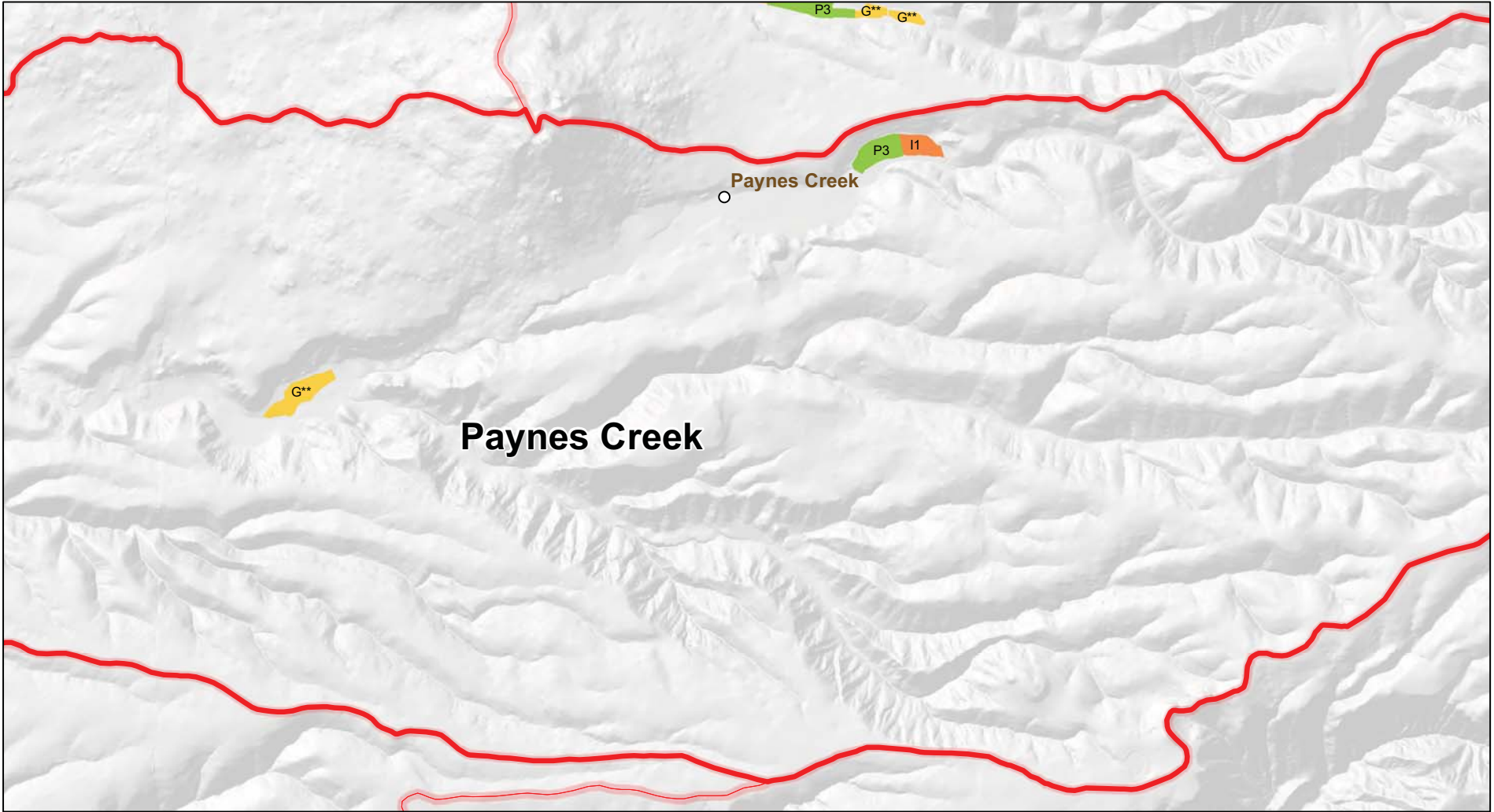
- | |
|--------------------|
| Urban Areas |
| Watershed Boundary |



Tehama County Resource Conservation District
(c) 2010



http://www.mrlc.gov/nlcd_multizone_map.php
Homer, C. C. Huang, L. Yang, B. Wylie and M. Coan. 2004. Development of a 2001 National Landcover Database for the United States. Photogrammetric Engineering and Remote Sensing, Vol. 70, No. 7, July 2004, pp. 829-840.



Tehama East Watershed Assessment

Land Use - Agriculture
 Department of Water Resources
 Paynes Creek - Central

KEY

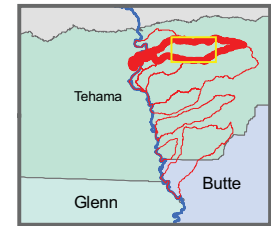
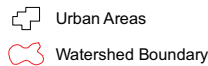
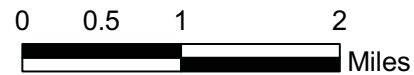
Land Use - Agriculture

C3 - Oranges	D6 - Pears	F2 - Safflower	G - Grain & Hay Crops	P2 - Clover	T9 - Melons, squash, and cucumbers
C6 - Olives	D8 - Prunes	F3 - Flax	G1 - Barley	P3 - Mixed Pasture	T10 - Onions and Garlic
C7 - Miscellaneous Subtropical Fruit	D9 - Figs	F5 - Sugar Beets	G2 - Wheat	P4 - Native Pasture	T15 - Tomatoes
C8 - Kiwis	D10 - Miscellaneous Deciduous	F6 - Corn, Field & Sweet	G3 - Oats	P5 - Induced High Water Table Nat. Pas.	T16 - Flowers, Nursery & Tree Farms
C10 - Eucalyptus	D12 - Almonds	F8 - Sudan	G6 - Miscellaneous Grain & Hay	P7 - Turf Farms	T18 - Miscellaneous Truck Farms
D1 - Apples	D13 - Walnuts	F - Field Crops **	G - Grain & Hay Crops **	P - Pasture **	T19 - Bush Berries
D2 - Apricots	D14 - Pistachios	F10 - Beans, Dry	I1 - Land not cropped for the last 3 years	R - Rice	T20 - Strawberries
D3 - Cherries	F - Field Crops	F11 - Miscellaneous Field	I2 - New lands being prepared for crops	R - Rice **	V - Vineyards
D5 - Peaches and Nectarines	F1 - Cotton	F12 - Sunflowers	P1 - Alfalfa & alfalfa mixtures	T2 - Asparagus	V2 - Wine Grapes
			P3 - Mixed Pasture	T9 - Melons, squash, and cucumbers	V - Vineyards **

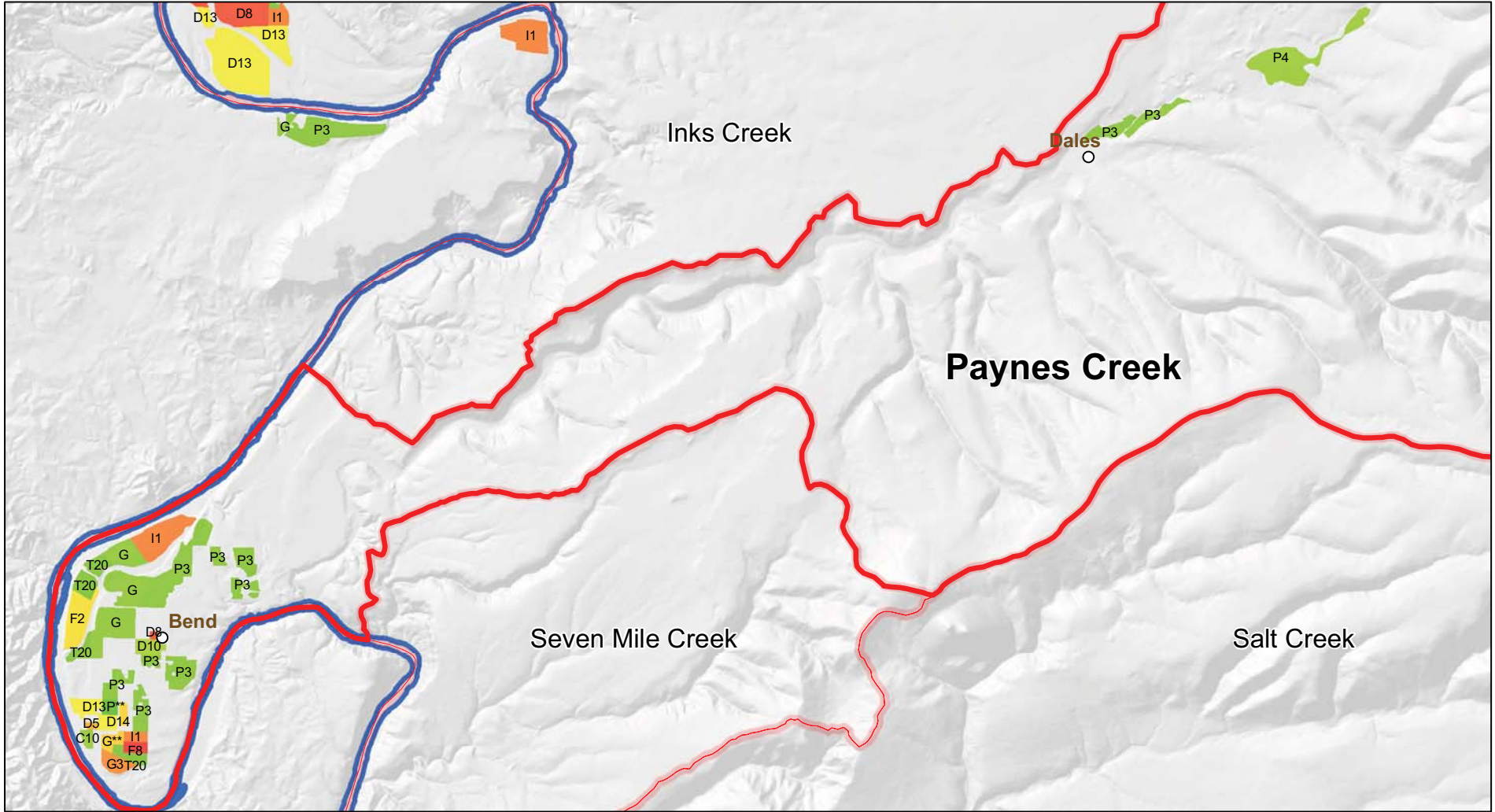
** No specific crop was assigned.



Tehama County Resource Conservation District (c)2010



<http://www.water.ca.gov/landwateruse/lusrvy/main.cfm>

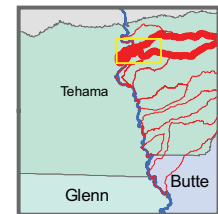


Tehama East Watershed Assessment

Land Use - Agriculture
 Department of Water Resources
 Paynes Creek - West



Tehama County Resource Conservation District (c)2010



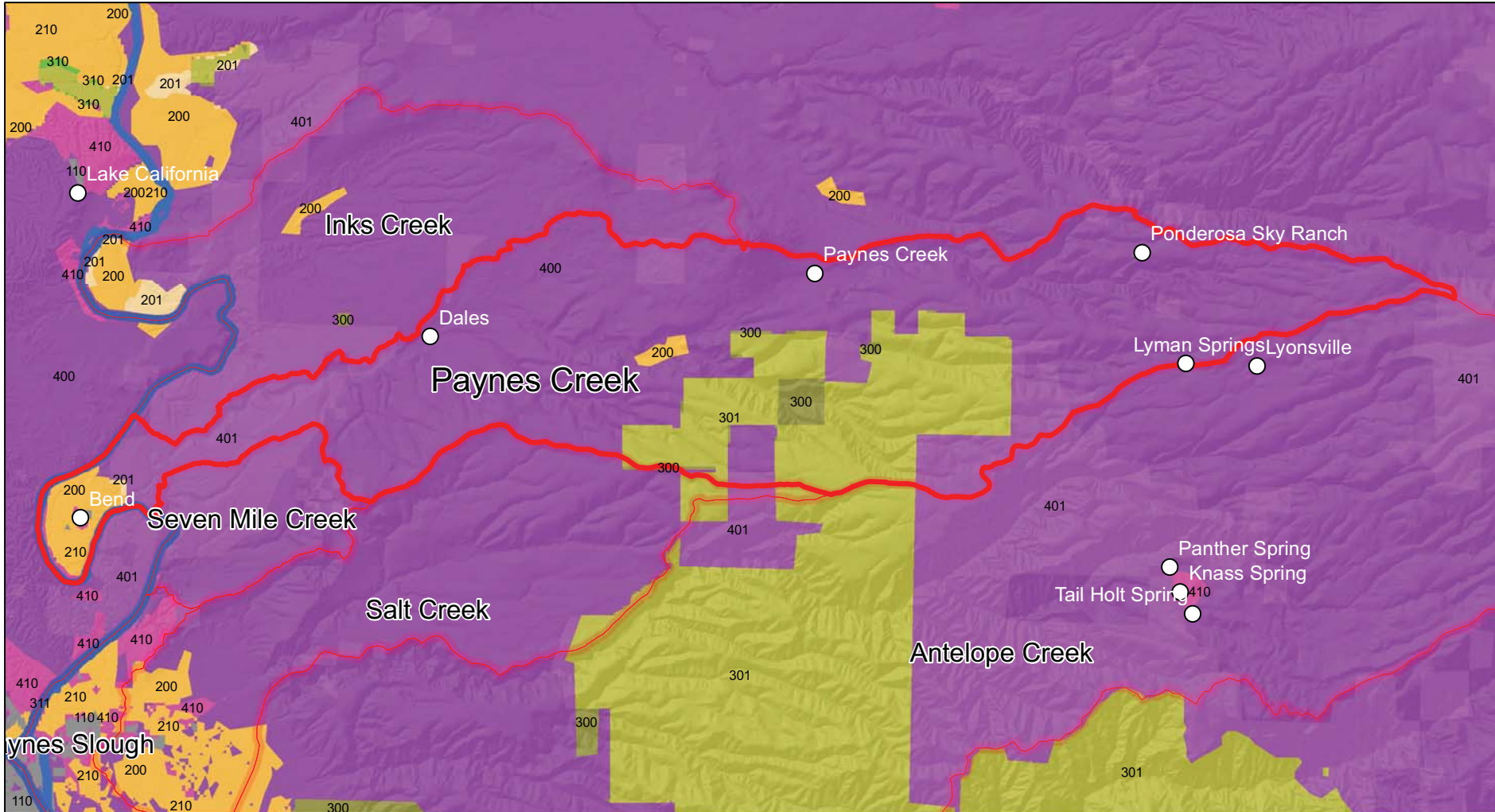
KEY

Land Use - Agriculture

C3 - Oranges	D6 - Pears	F2 - Safflower	G - Grain & Hay Crops	P2 - Clover	T9 - Melons, squash, and cucumbers
C6 - Olives	D8 - Prunes	F3 - Flax	G1 - Barley	P3 - Mixed Pasture	T10 - Onions and Garlic
C7 - Miscellaneous Subtropical Fruit	D9 - Figs	F5 - Sugar Beets	G2 - Wheat	P4 - Native Pasture	T15 - Tomatoes
C8 - Kiwis	D10 - Miscellaneous Deciduous	F6 - Corn, Field & Sweet	G3 - Oats	P5 - Induced High Water Table Nat. Pas.	T16 - Flowers, Nursery & Tree Farms
C10 - Eucalyptus	D12 - Almonds	F8 - Sudan	G6 - Miscellaneous Grain & Hay	P7 - Turf Farms	T18 - Miscellaneous Truck Farms
D1 - Apples	D13 - Walnuts	F - Field Crops **	G - Grain & Hay Crops **	P - Pasture **	T19 - Bush Berries
D2 - Apricots	D14 - Pistachios	F10 - Beans, Dry	I1 - Land not cropped for the last 3 years	R - Rice	T20 - Strawberries
D3 - Cherries	F - Field Crops	F11 - Miscellaneous Field	I2 - New lands being prepared for crops	R - Rice **	V - Vineyards
D5 - Peaches and Nectarines	F1 - Cotton	F12 - Sunflowers	P1 - Alfalfa & alfalfa mixtures	T2 - Asparagus	V2 - Wine Grapes
			Urban Areas		V - Vineyards **
			Watershed Boundary		

** No specific crop was assigned.

<http://www.water.ca.gov/landwateruse/usvmain.cfm>



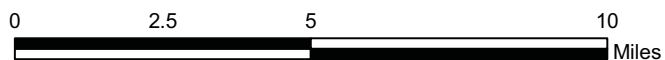
Tehama East Watershed Assessment

Managementscapes

CalFire - FMMP (2000)
Paynes Creek

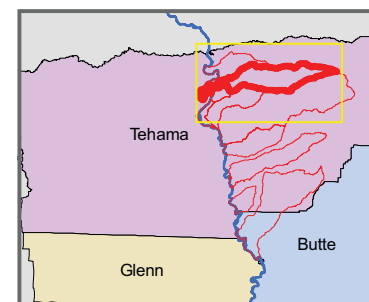


Tehama County Resource Conservation District
(c) 2010

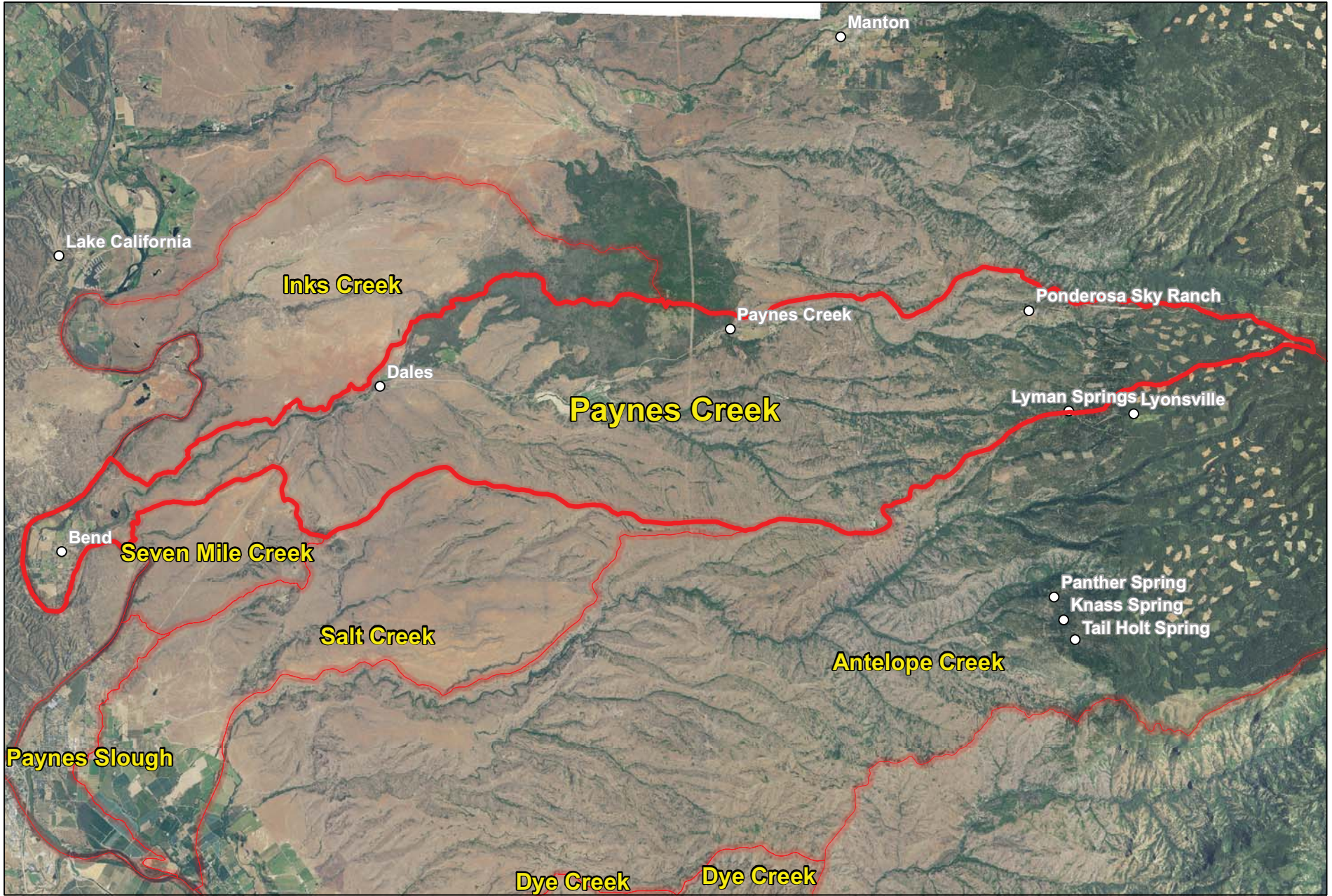


Managementscape Grid Code

- 110 - URBAN/PRIVATE
- 111 - URBAN/PUBLIC
- 200 - AG/SPARSE RES/PRIVATE
- 201 - AG/SPARSE RES/PUBLIC
- 210 - AG/RURAL RES/PRIVATE
- 300 - RESERVE/SPARSE RES/PRIVATE
- 301 - RESERVE/SPARSE RES/PUBLIC
- 310 - RESERVE/RURAL RES/PRIVATE
- 311 - RESERVE/RURAL RES/PUBLIC
- 400 - WORKING/SPARSE RES/PRIVATE
- 401 - WORKING/SPARSE RES/PUBLIC
- 410 - WORKING/RURAL RES/PRIVATE
- 411 - WORKING/RURAL RES/PUBLIC



- Watershed Boundary
- Sacramento River
- Communities

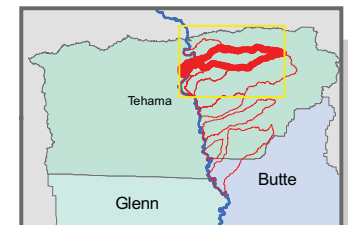
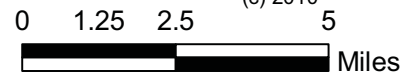


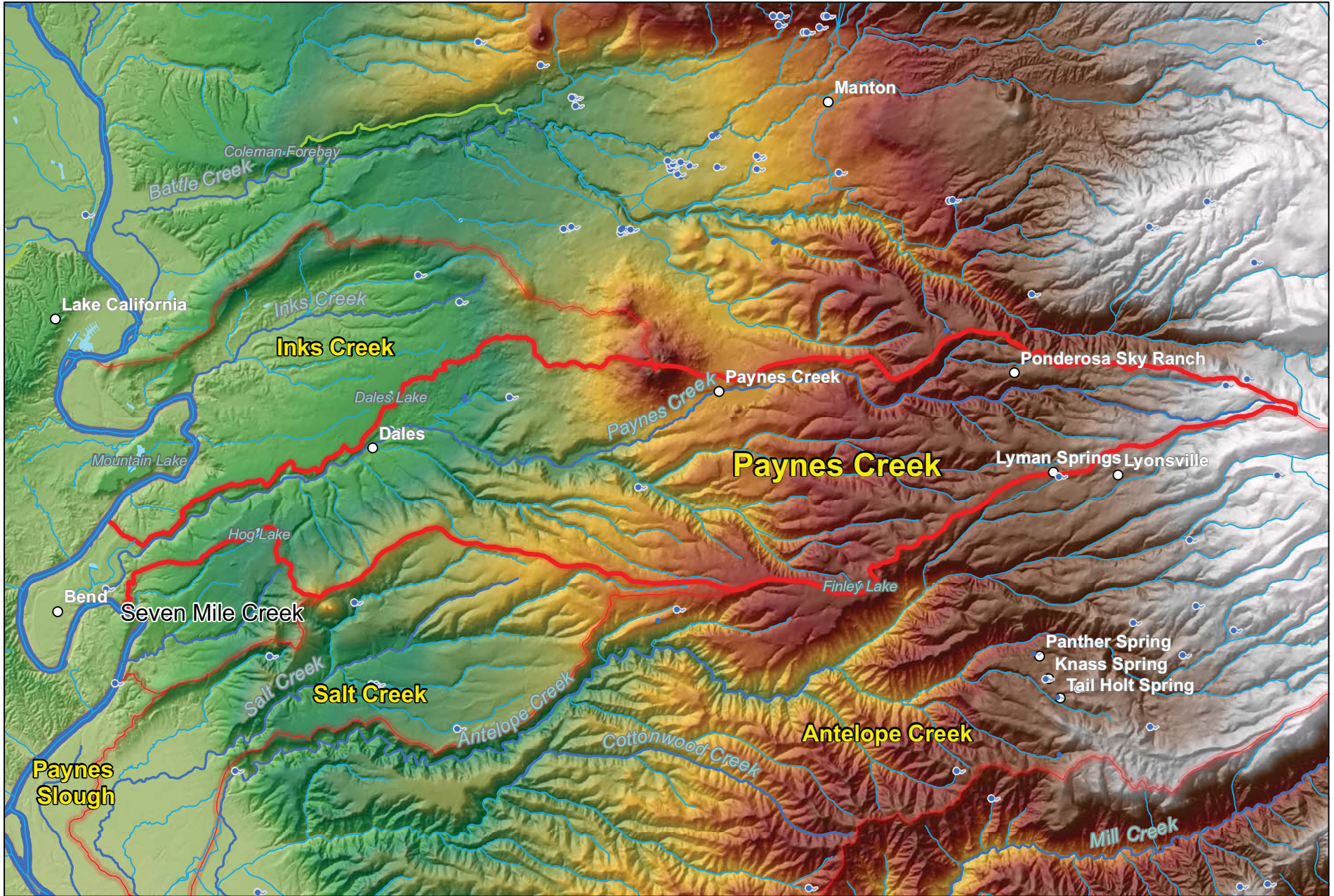
Tehama East Watershed Assessment

NAIP 2009
Paynes Creek



Tehama County Resource
Conservation District
(c) 2010










Tehama East Watershed Assessment

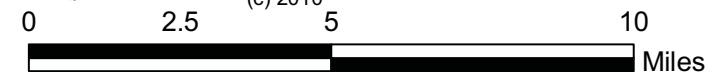
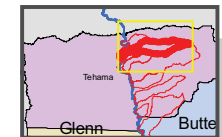
Water Features
National Hydrography Dataset - USGS
Paynes Creek

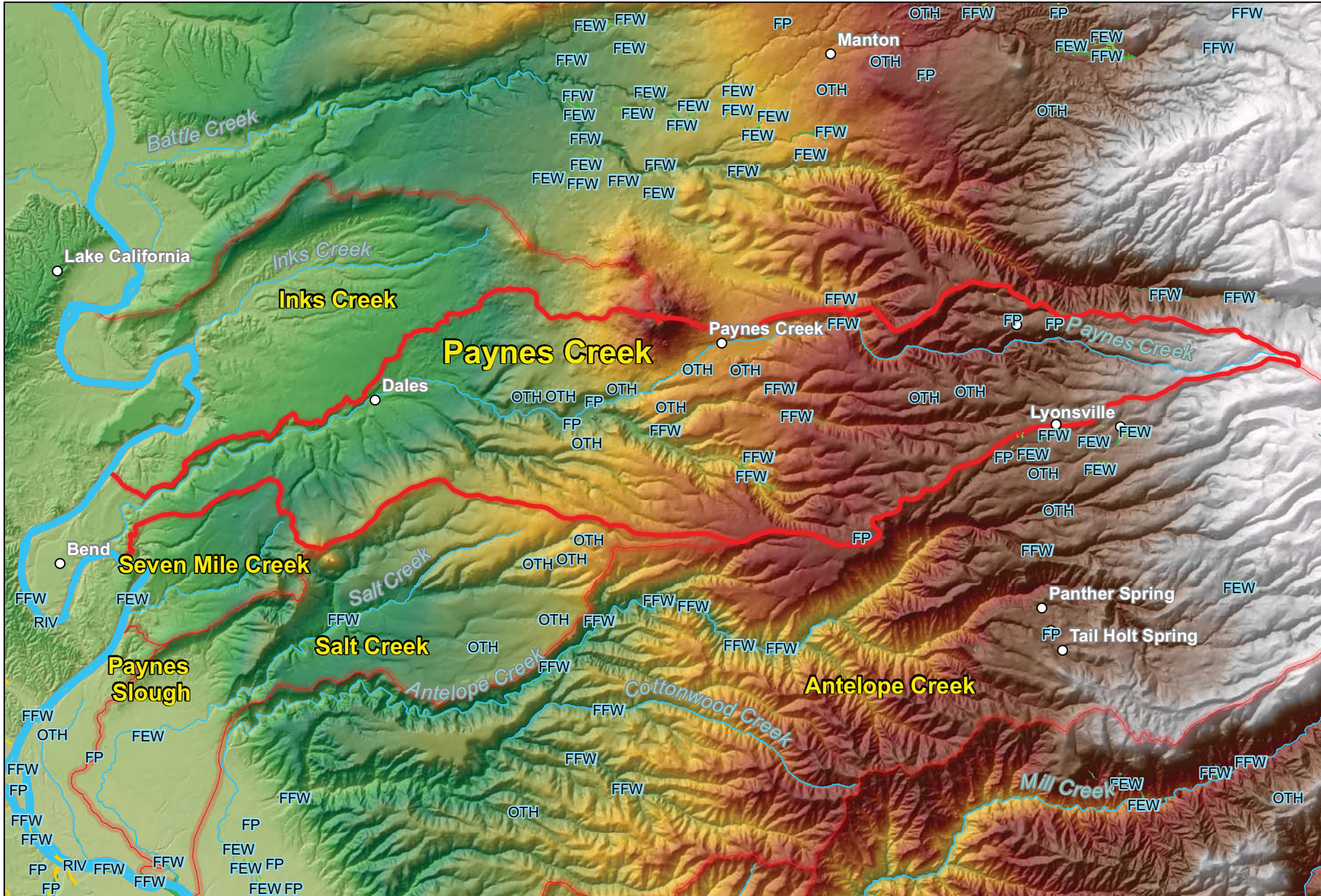
KEY

-  Springs
 -  Canal/Ditch
 -  Streams/Rivers
 -  Lake or Pond
 -  Watershed Boundary
- <http://nhd.usgs.gov/data.html>



Tehama County Resource Conservation District
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Tehama East Watershed Assessment

National Wetland Inventory
 US Fish & Wildlife Service
 Paynes Creek

KEY

Wetland Type

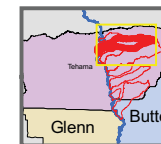
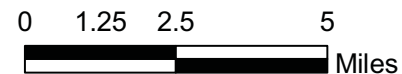
-  FEW Freshwater Emergent Wetland
-  FFW Freshwater Forested/Shrub Wetland
-  FP Freshwater Pond
-  LK Lake
-  OTH Other
-  RIV Riverine

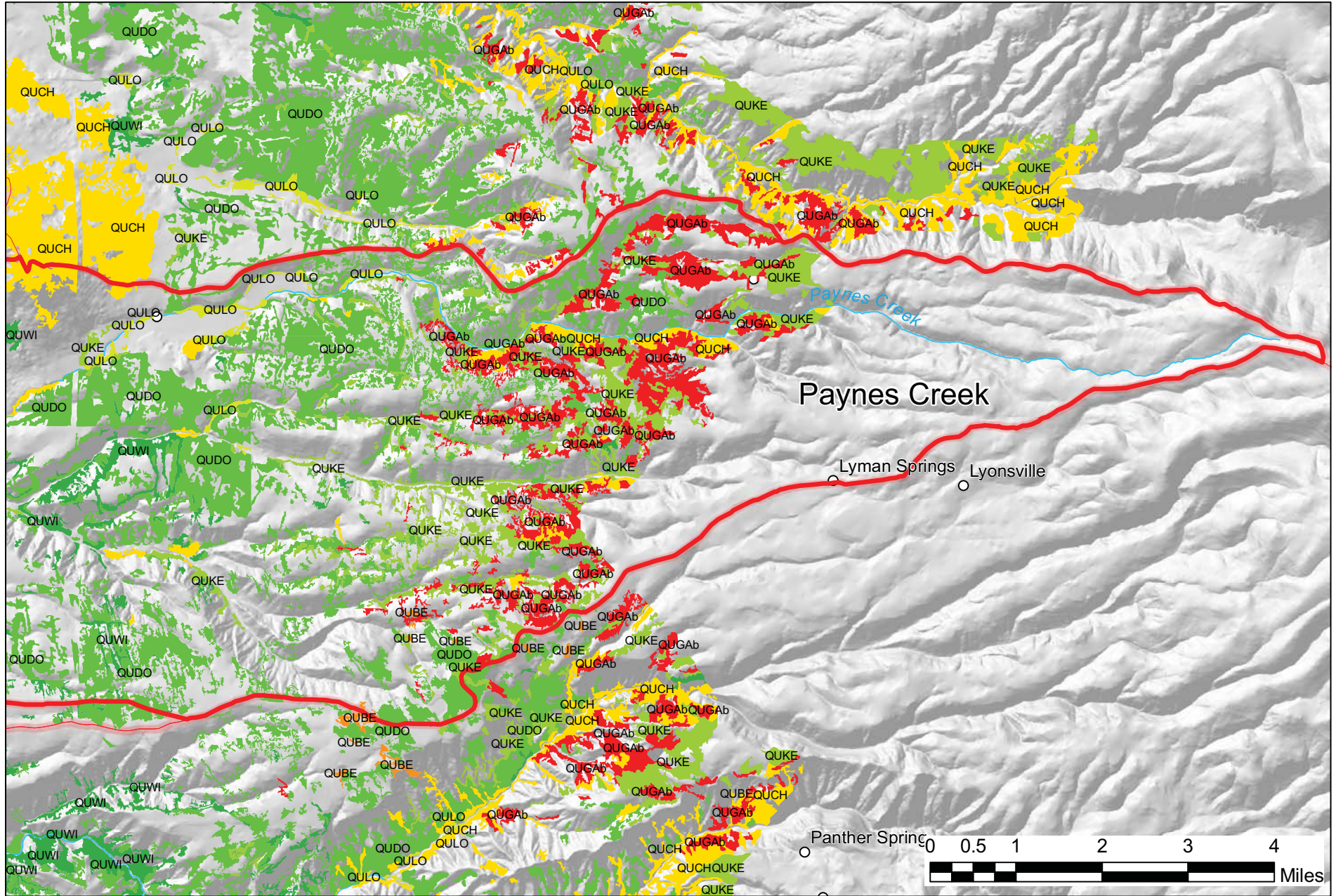
<http://www.fws.gov/wetlands/Data/DataDownload.html>

 Watershed Boundary



Tehama County Resource Conservation District
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Tehama East Watershed Assessment

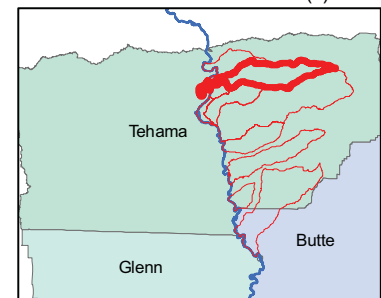
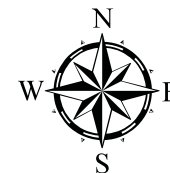
Oak Woodlands
TNC, CNPS, TCRCD Special Project
Paynes Creek - East

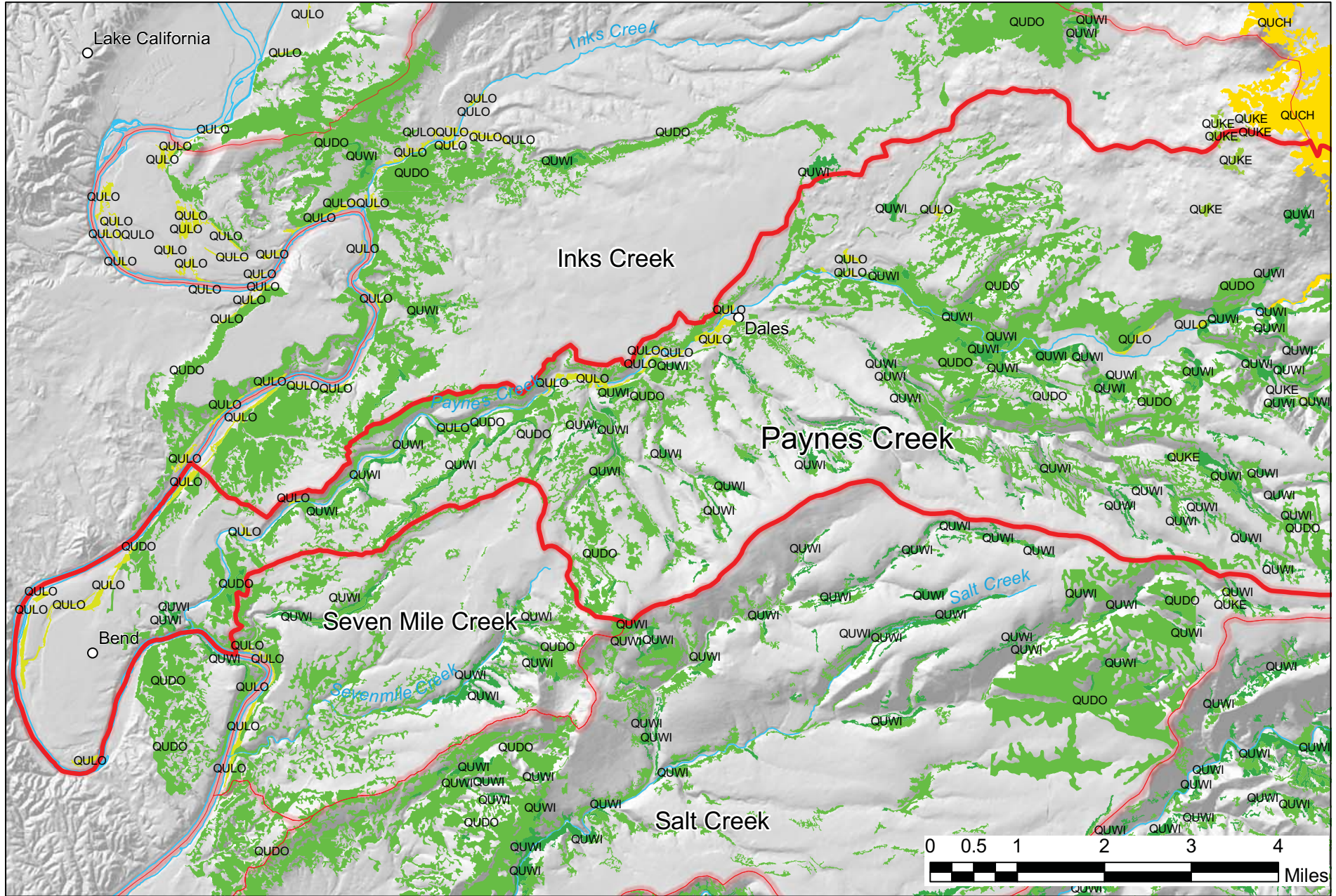
Tehama County Resource Conservation District (c) 2010

Legend

- | | | |
|-------------|--|--|
| Oaks | QUWI Quercus wislizeni (Interior Live Oak Tree) | QUCH Quercus chrysolepis (Canyon Live Oak) |
| | QUDO Quercus douglasii (Blue Oak) | QUBE Quercus berberidifolia (scrub oak) |
| | QUKE Quercus kelloggii (Black Oak) | QUDU Quercus durata (Leather Oak) |
| | QULO Quercus lobata (Valley Oak) | QUGAb Quercus garryana/ var. breweri (Brewer Oak) |

Watershed Boundary





Tehama East Watershed Assessment

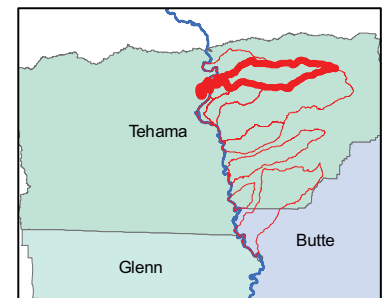
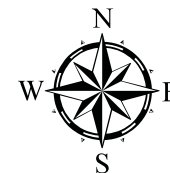
Oak Woodlands TNC, CNPS, TCRCD Special Project Paynes Creek - West

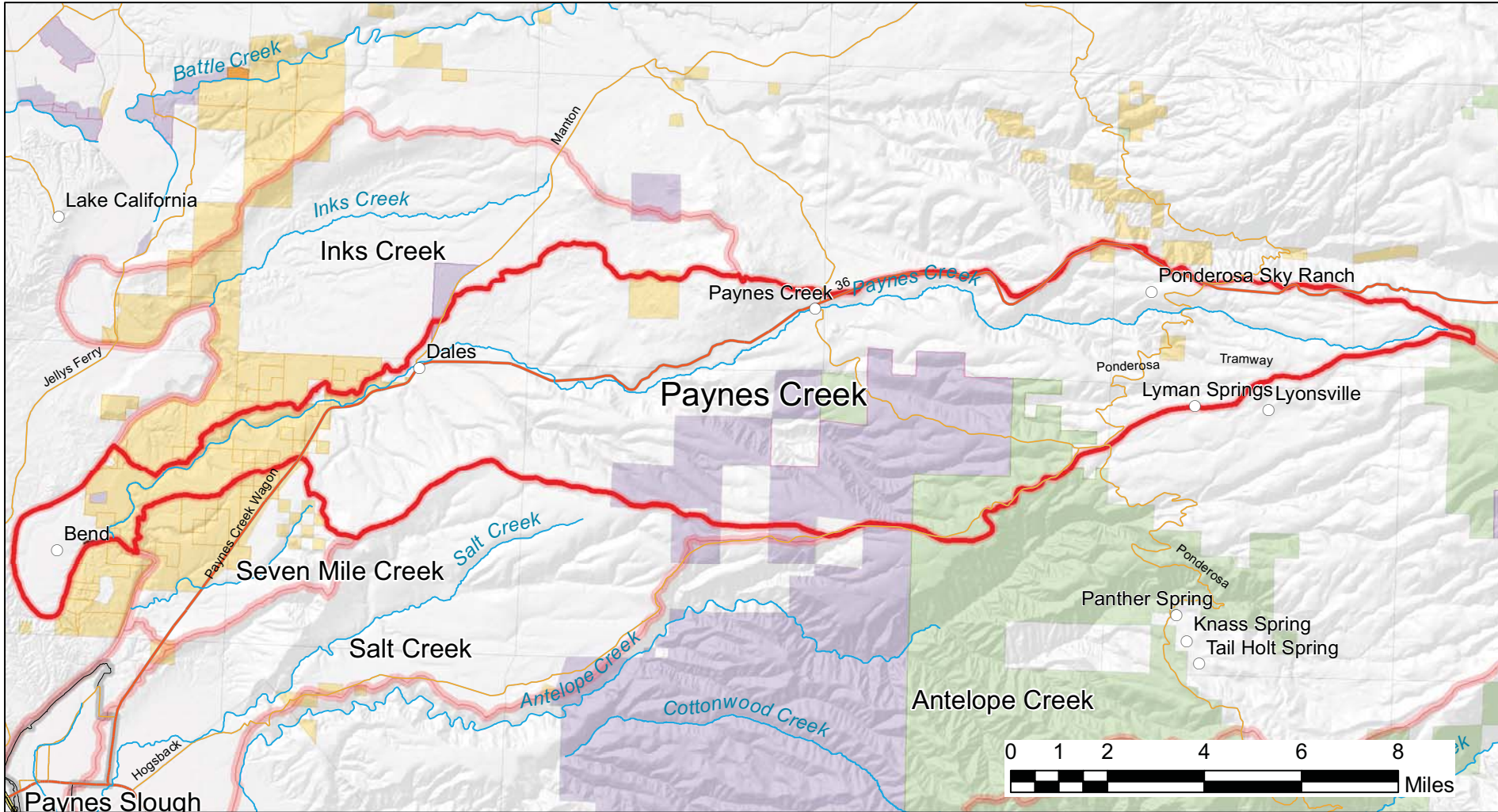
Tehama County Resource Conservation District (c) 2010

Legend

- QUWI Quercus wislizeni (Interior Live Oak Tree)
- QUCH Quercus chrysolepis (Canyon Live Oak)
- QUDO Quercus douglasii (Blue Oak)
- QUBE Quercus berberidifolia (scrub oak)
- QUKE Quercus kelloggii (Black Oak)
- QUDU Quercus durata (Leather Oak)
- QULO Quercus lobata (Valley Oak)
- QUGab Quercus garryana/ var. breweri (Brewer Oak)

Watershed Boundary





Tehama County Resource Conservation District (c) 2010

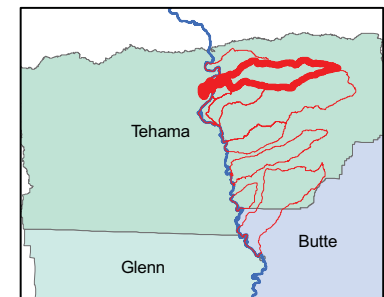
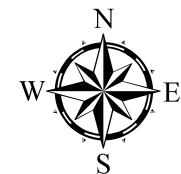
Tehama East Watershed Assessment

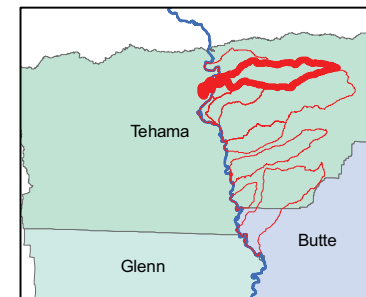
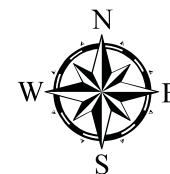
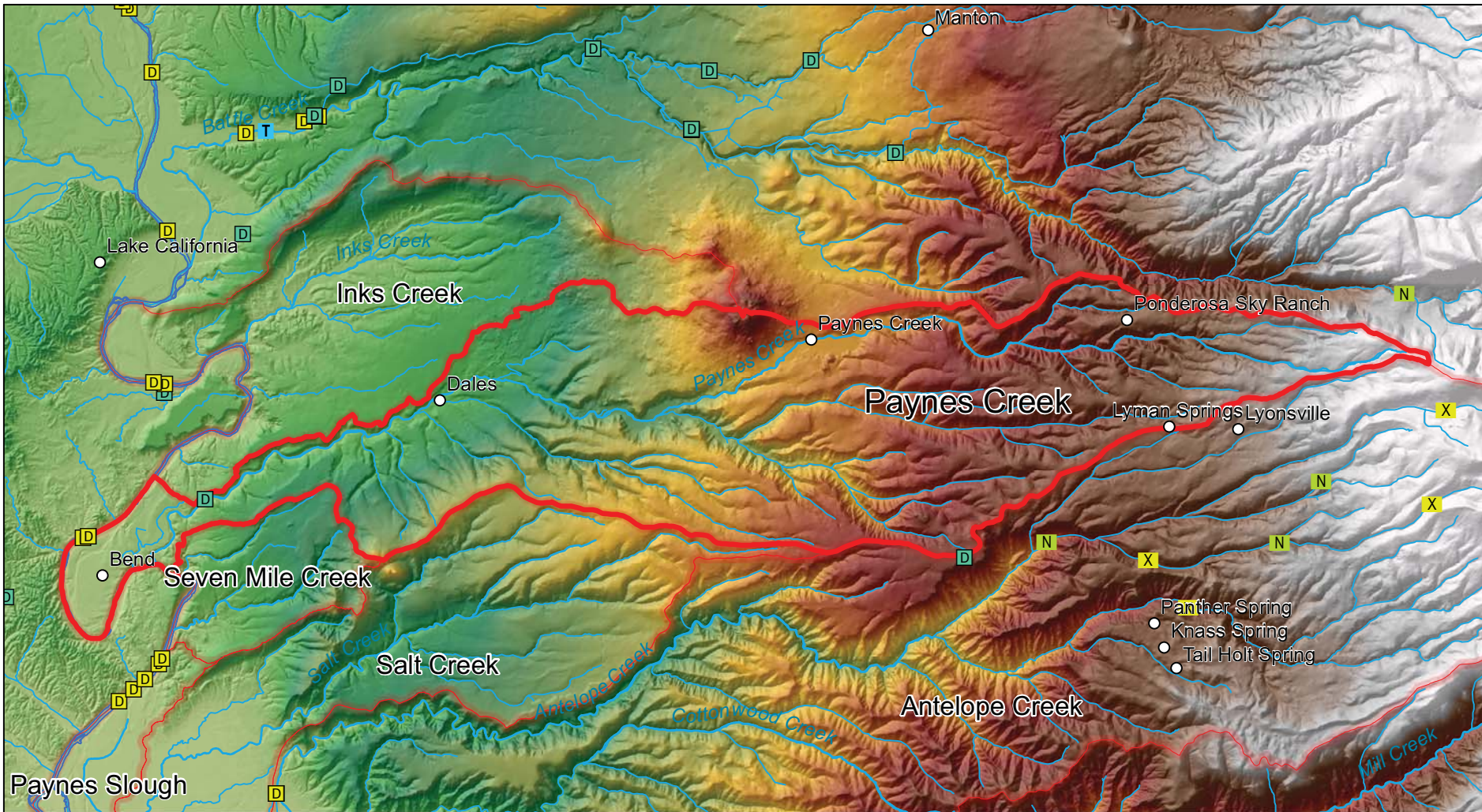
Land Ownership Paynes Creek

Legend

- | | | | |
|---|------------------------------|---|------------------------|
|  | State Lands |  | Major Roads & Highways |
|  | US National Forest |  | Urban Areas |
|  | US Bureau of Land Management |  | Watershed Boundary |
|  | US Fish and Wildlife | | |
|  | Private | | |

State: 10,392 Acres
 National Forest: 3,514 Acres
 BLM: 4,721 Acres
 Private: 42,783 Acres





Tehama East Watershed Assessment


Passage Assessment Database
Paynes Creek




Tehama County Resource Conservation District
(c) 2010

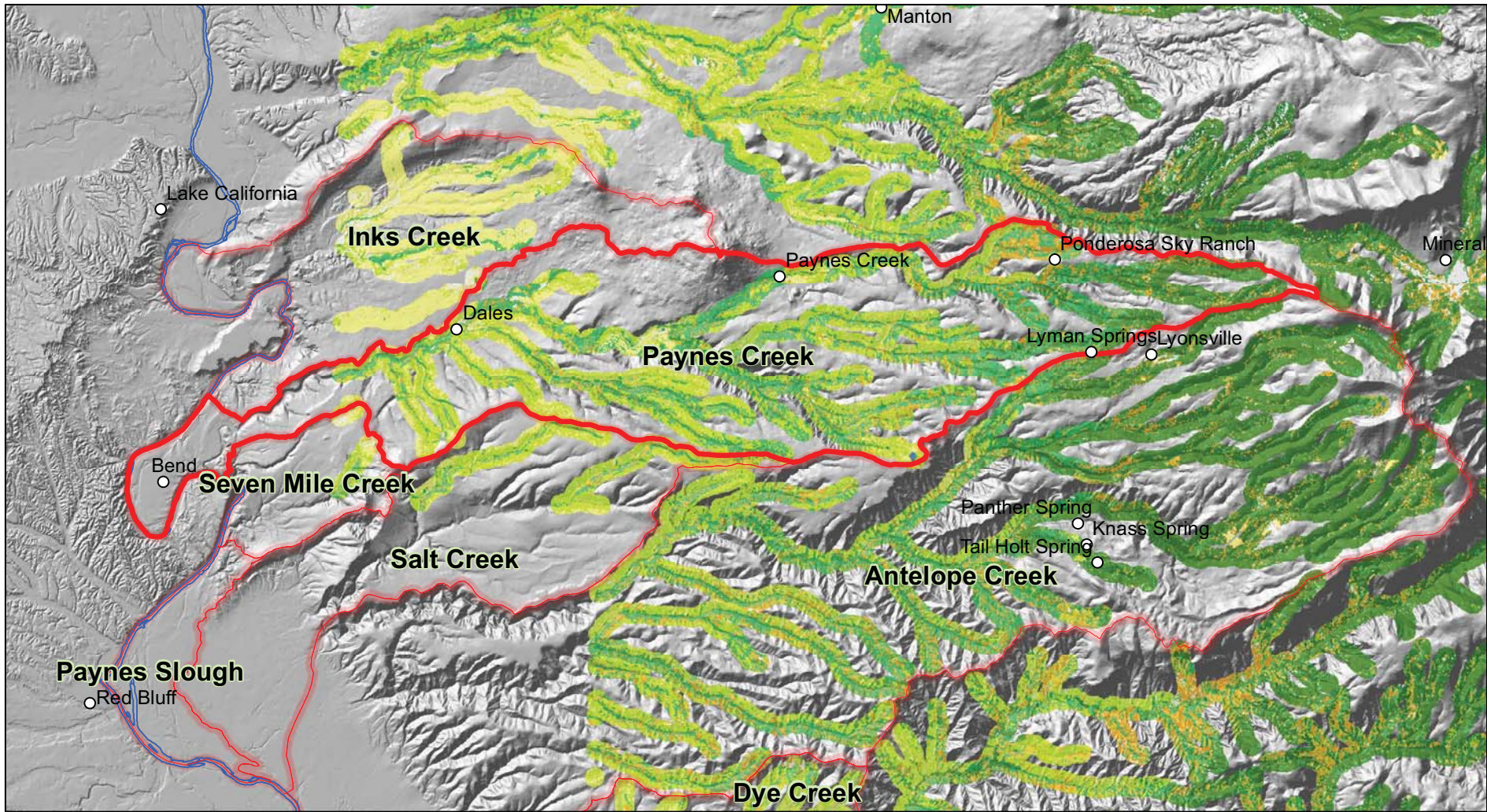
Legend

Site Type

-  Dam
-  Diversion
-  Fish trap
-  Non-structural
-  Road crossing

<http://www.calfish.org/DataampMaps/CalFishDataDownloads/tabid/93/Default.aspx>

 Watershed Boundary

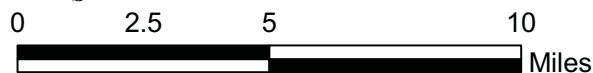


Tehama East Watershed Assessment

Riparian Vegetation
in Hardwood Rangelands
Paynes Creek



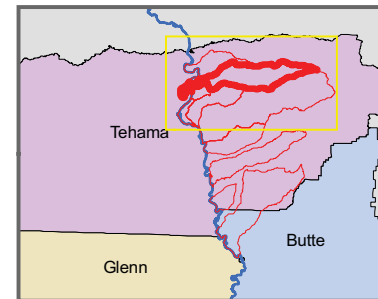
Tehama County Resource Conservation District
(c) 2010

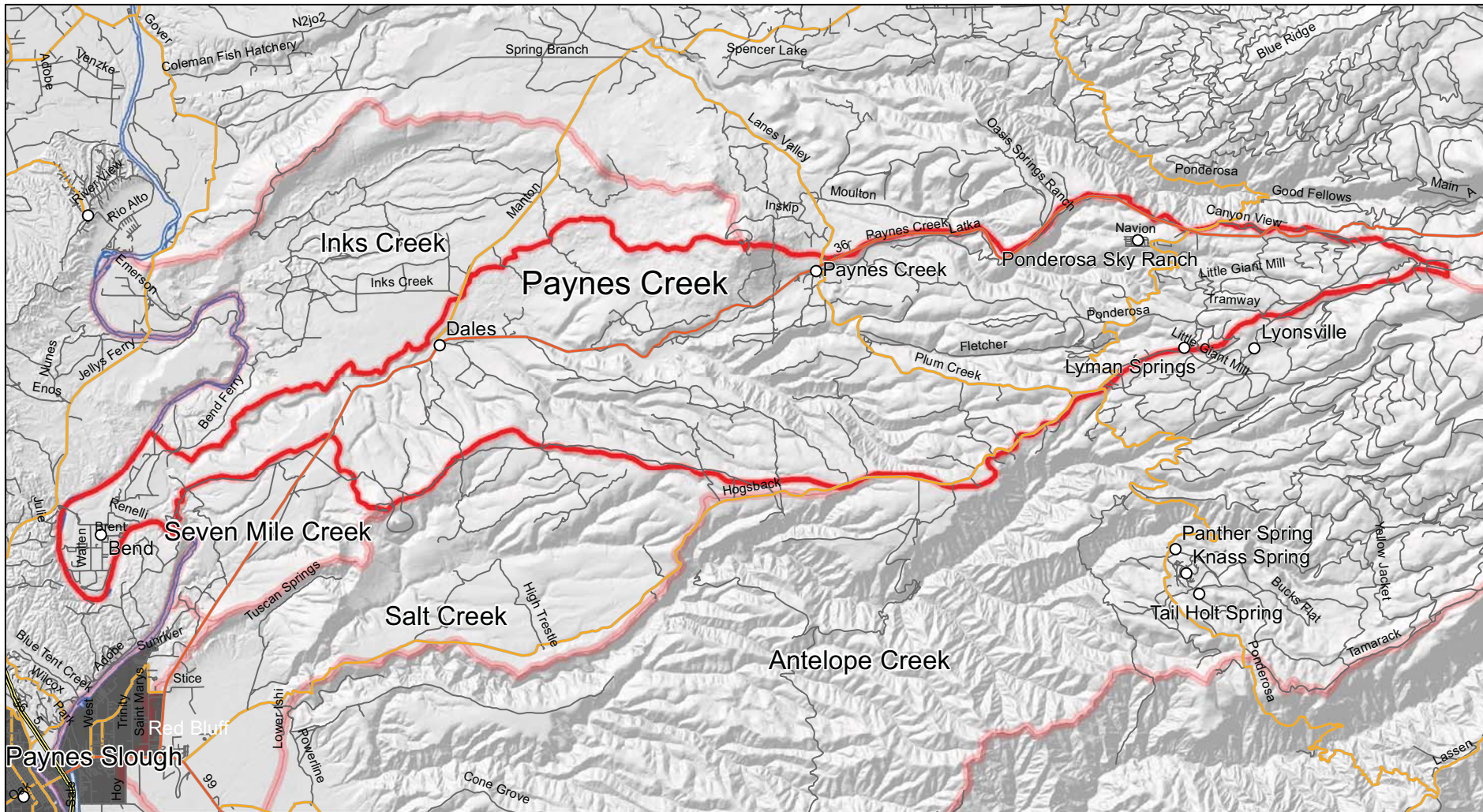


KEY

- Riparian
- Hardwood Range w/<70% Canopy
- Shrub
- Conifer
- Herbaceous
- Water
- Other: Urban, Marsh, Rock, Barren

Watershed Boundary



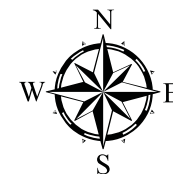


Tehama East Watershed Assessment

Roadways
Paynes Creek

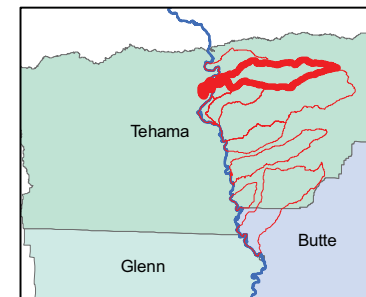


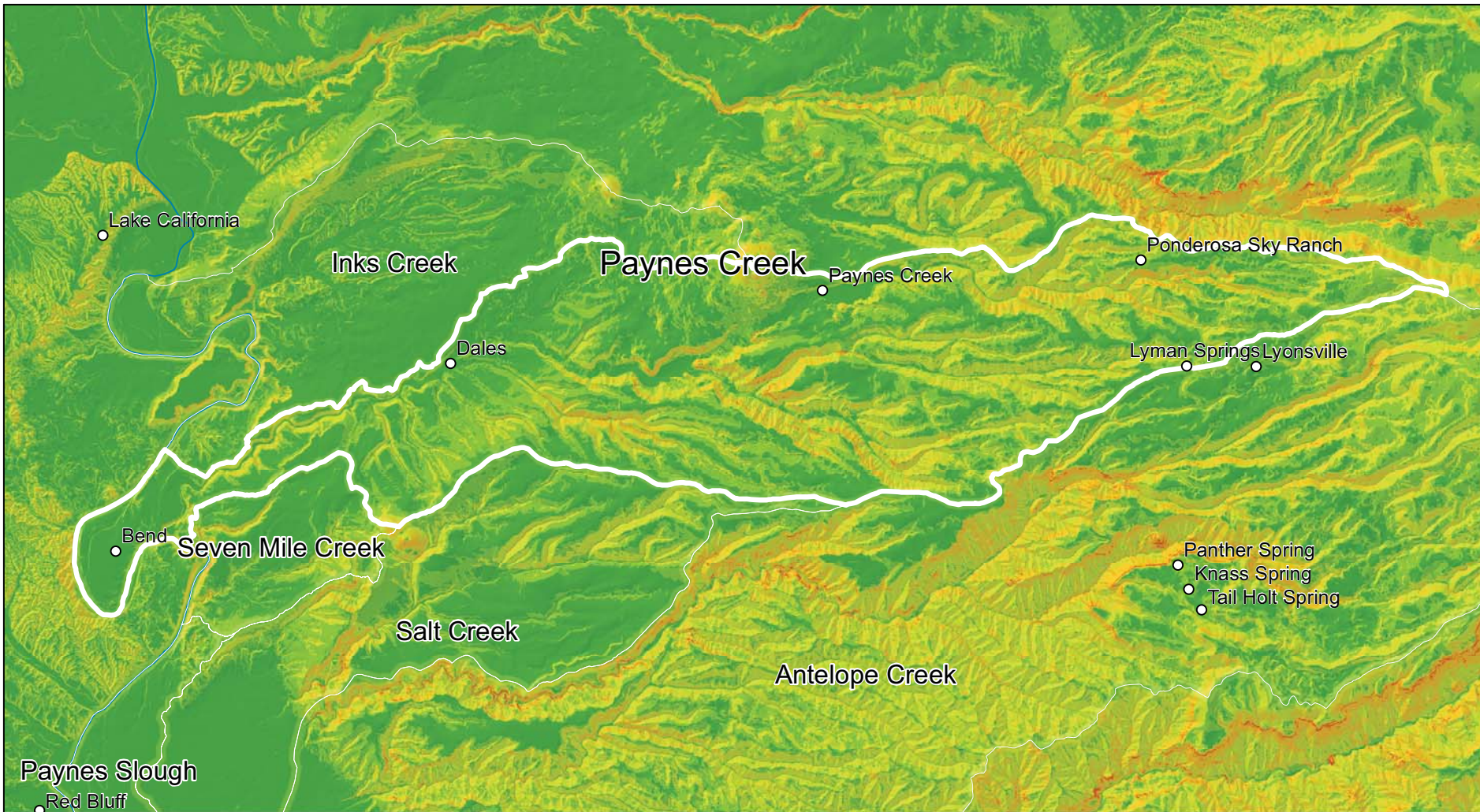
Tehama County Resource
Conservation District
(c) 2010



Legend


- | | | | | | | | |
|--|----------------|--|------------|--|----------------|--|--------------------|
| | Limited Access | | Local Road | | Ramp | | Urban Areas |
| | Highway | | Minor Road | | Ferry | | Watershed Boundary |
| | Major Road | | Other Road | | Pedestrian Way | | |











Tehama East Watershed Assessment

Percent Slope
Paynes Creek

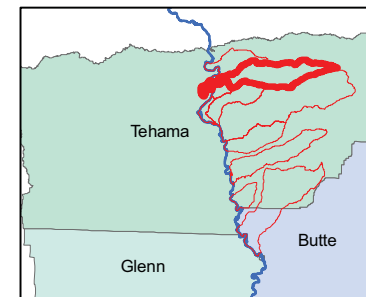
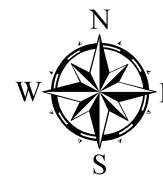

Tehama County Resource
Conservation District
(c) 2010

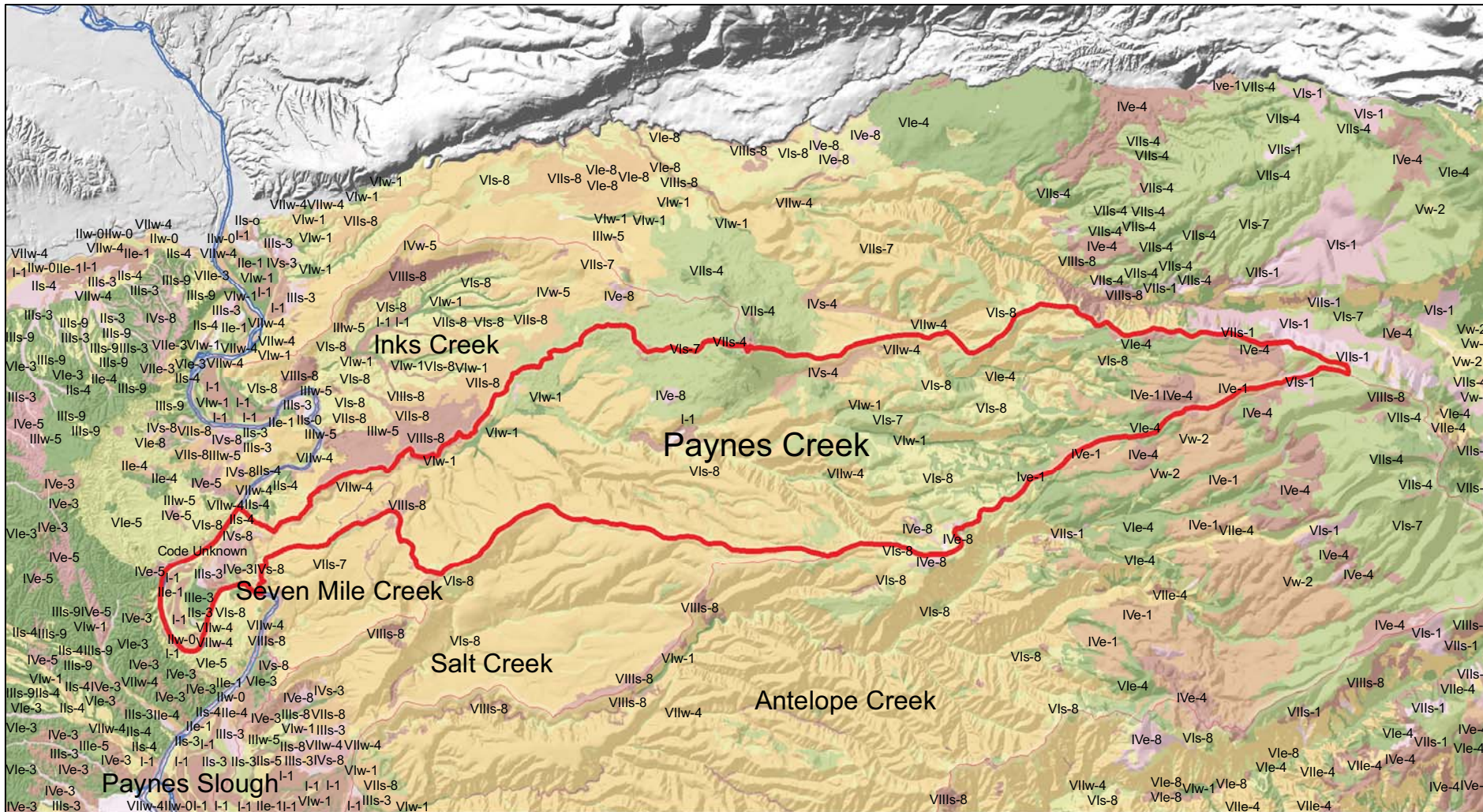
Legend

Percent Slope

-  0 - 2 Percent
-  2 - 5 Percent
-  5 - 10 Percent
-  10 - 20 Percent
-  20 - 50 Percent
-  50 - 100 Percent

 Watershed Boundary





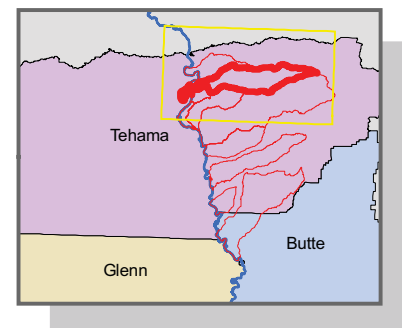
Tehama East Watershed Assessment

Land Capability Classification Antelope Creek

KEY

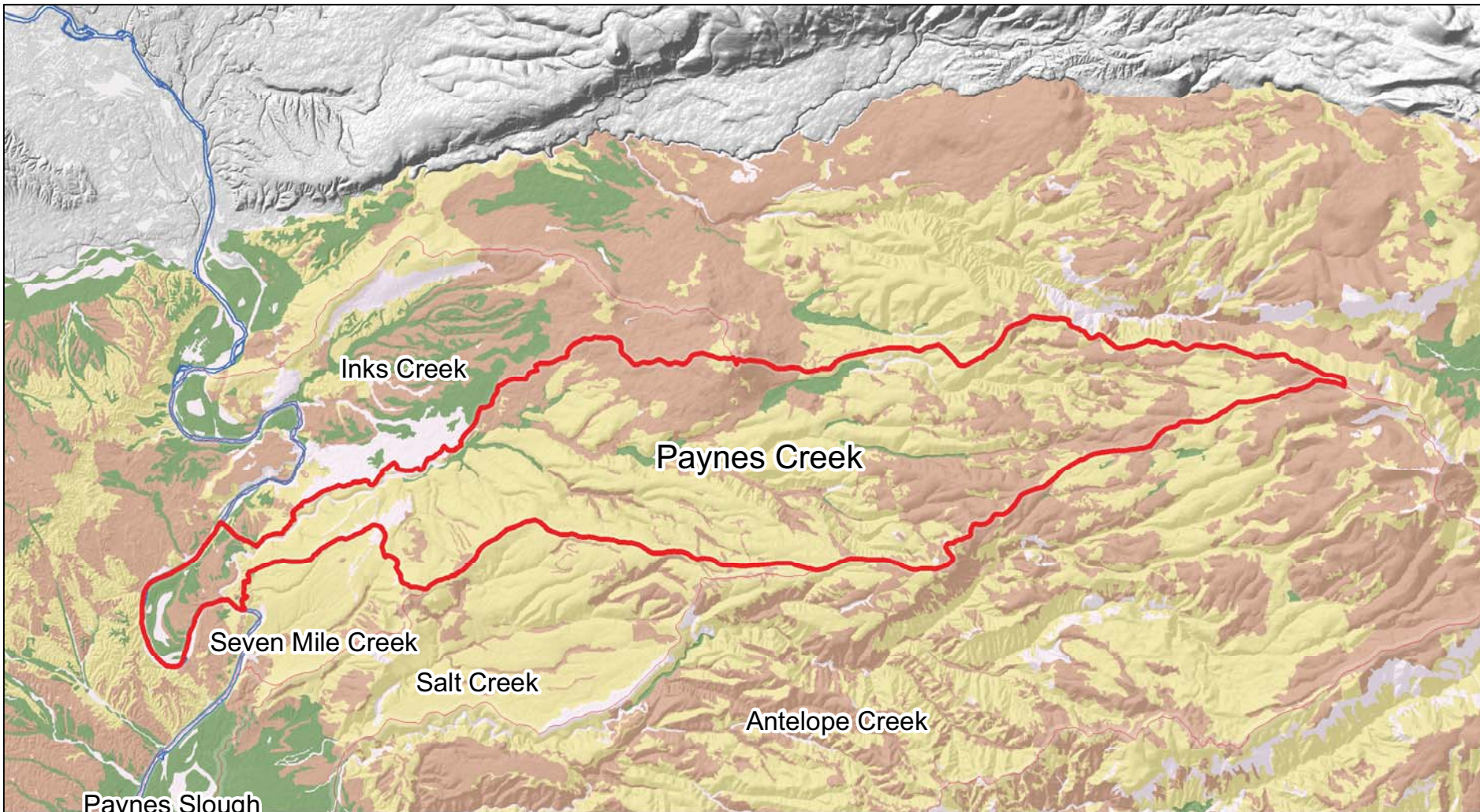
See Land Capabiity Classification Page

 Watershed Boundary



Tehama County Resource Conservation District
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Tehama East Watershed Assessment

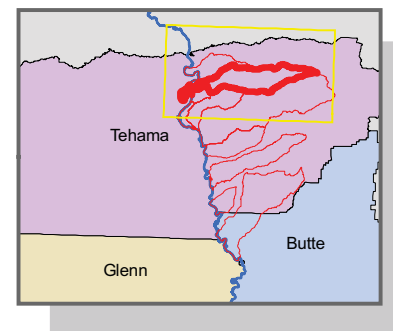
NRCS Soils Highly Erodible Soils
Paynes Creek

KEY

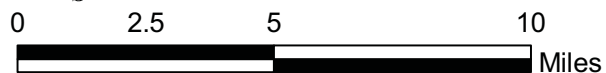
Highly Erodible Land Classification

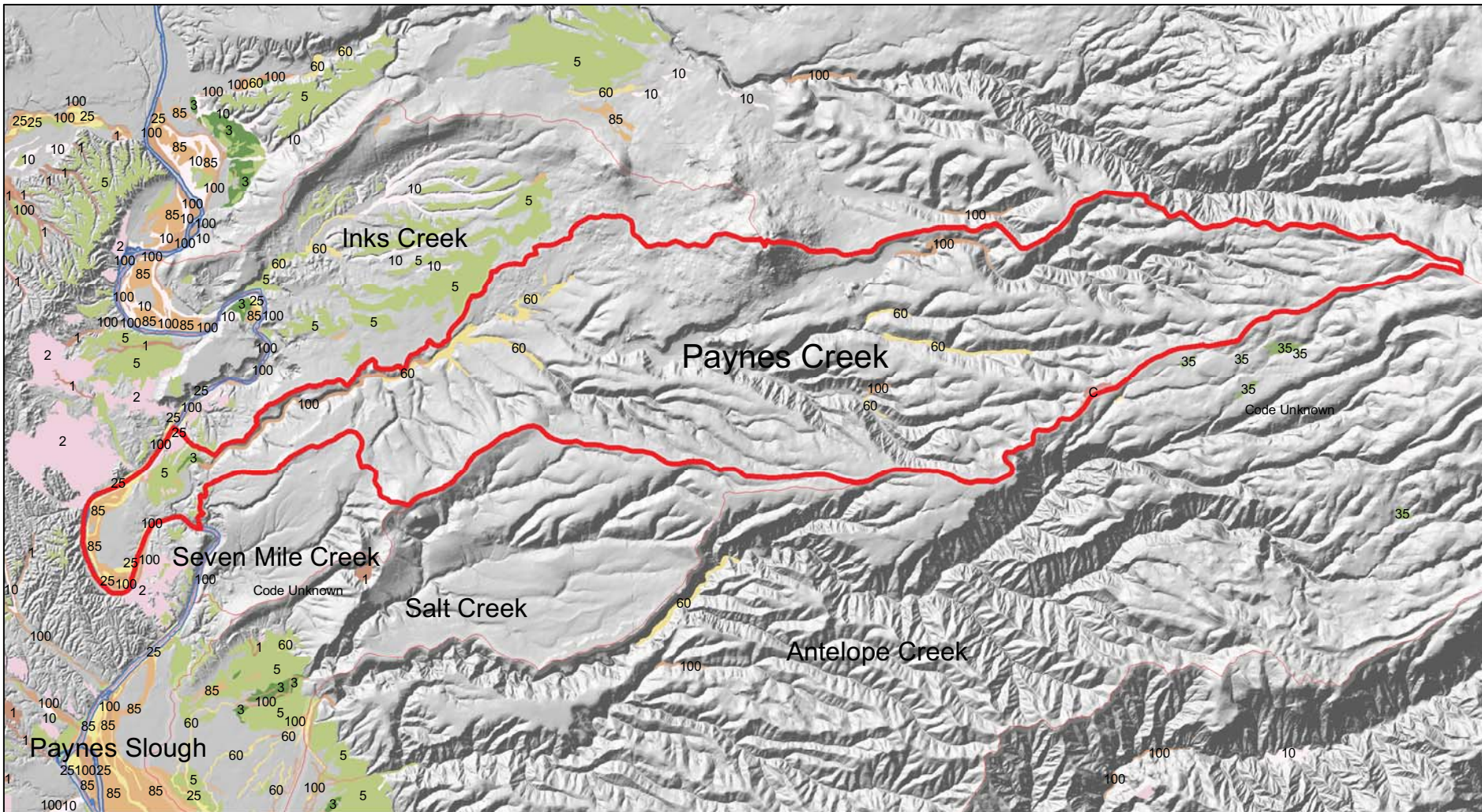
- 1
- 2
- 3
- Code Unknown

Watershed Boundary



Tehama County Resource Conservation District
(c) 2010



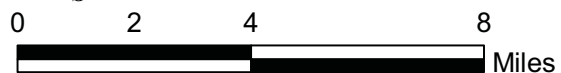


Tehama East Watershed Assessment

NRCS Soils Hydric Soils
Paynes Creek



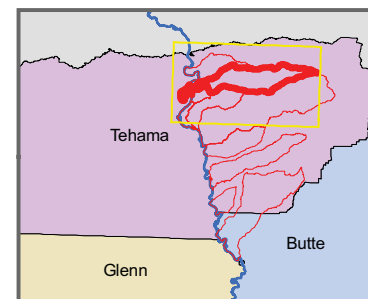
Tehama County Resource Conservation District
(c) 2010

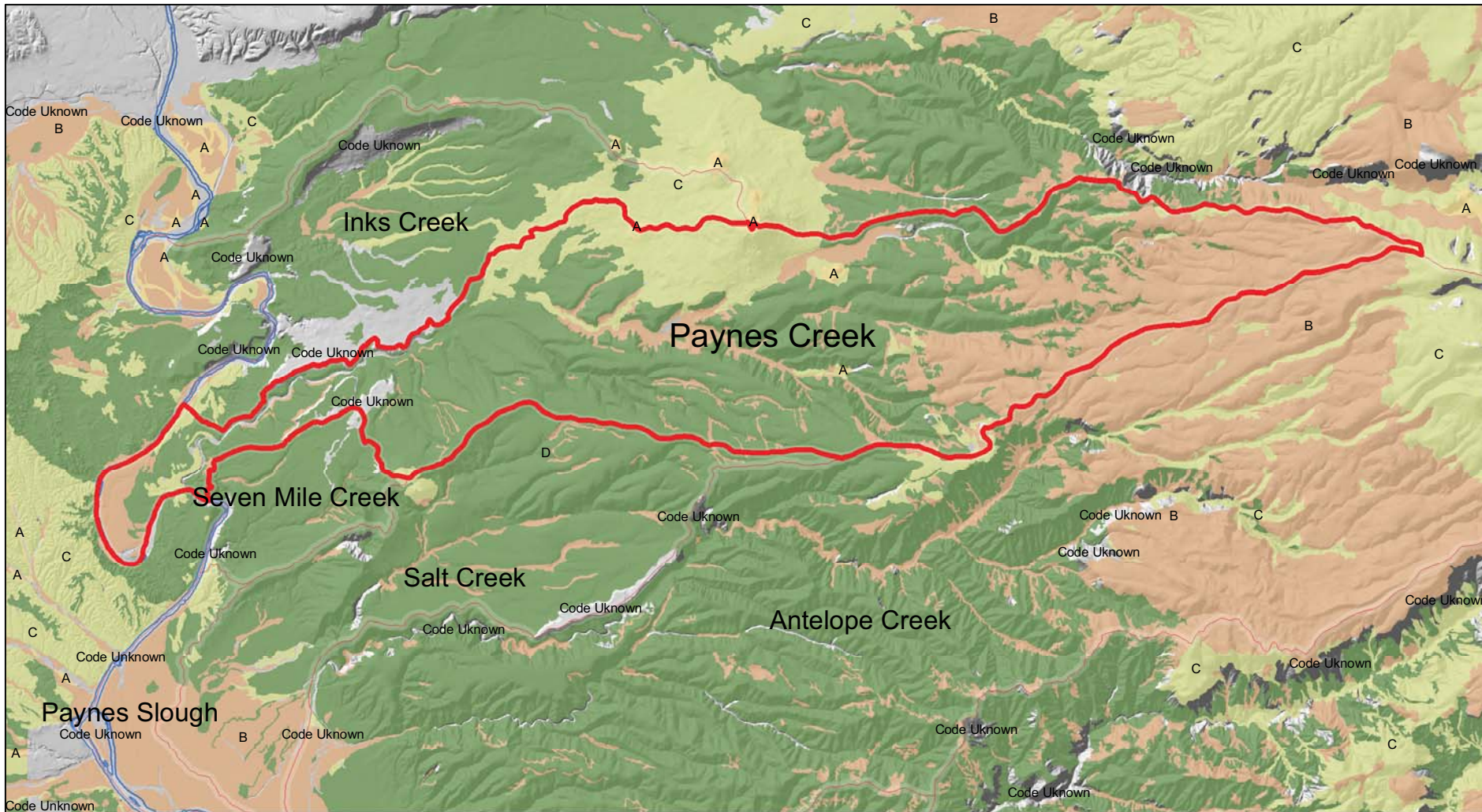


KEY

Hydric Percentage	Color	Value
1	Brown	1
2	Pink	2
3	Dark Green	3
5	Light Green	5
10	Very Light Green	10
25	Yellow-Green	25
35	Green	35
40	Orange	40
60	Yellow	60
85	Light Orange	85
100	Dark Orange	100
C	Reddish Brown	C
CX	Light Yellow	CX
X	Light Green	X
Code Unknown	White	Code Unknown

Watershed Boundary



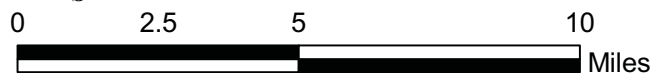


Tehama East Watershed Assessment

NRCS Soils Hydrologic Group
Paynes Creek



Tehama County Resource Conservation District
(c) 2010

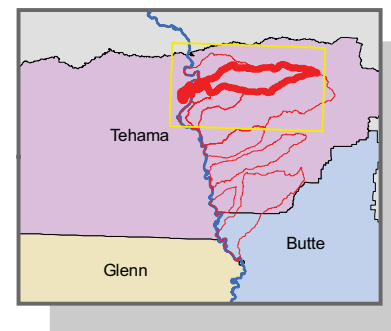


KEY

Hydrologic Group

- A
- B
- C
- D
- Code Unknown

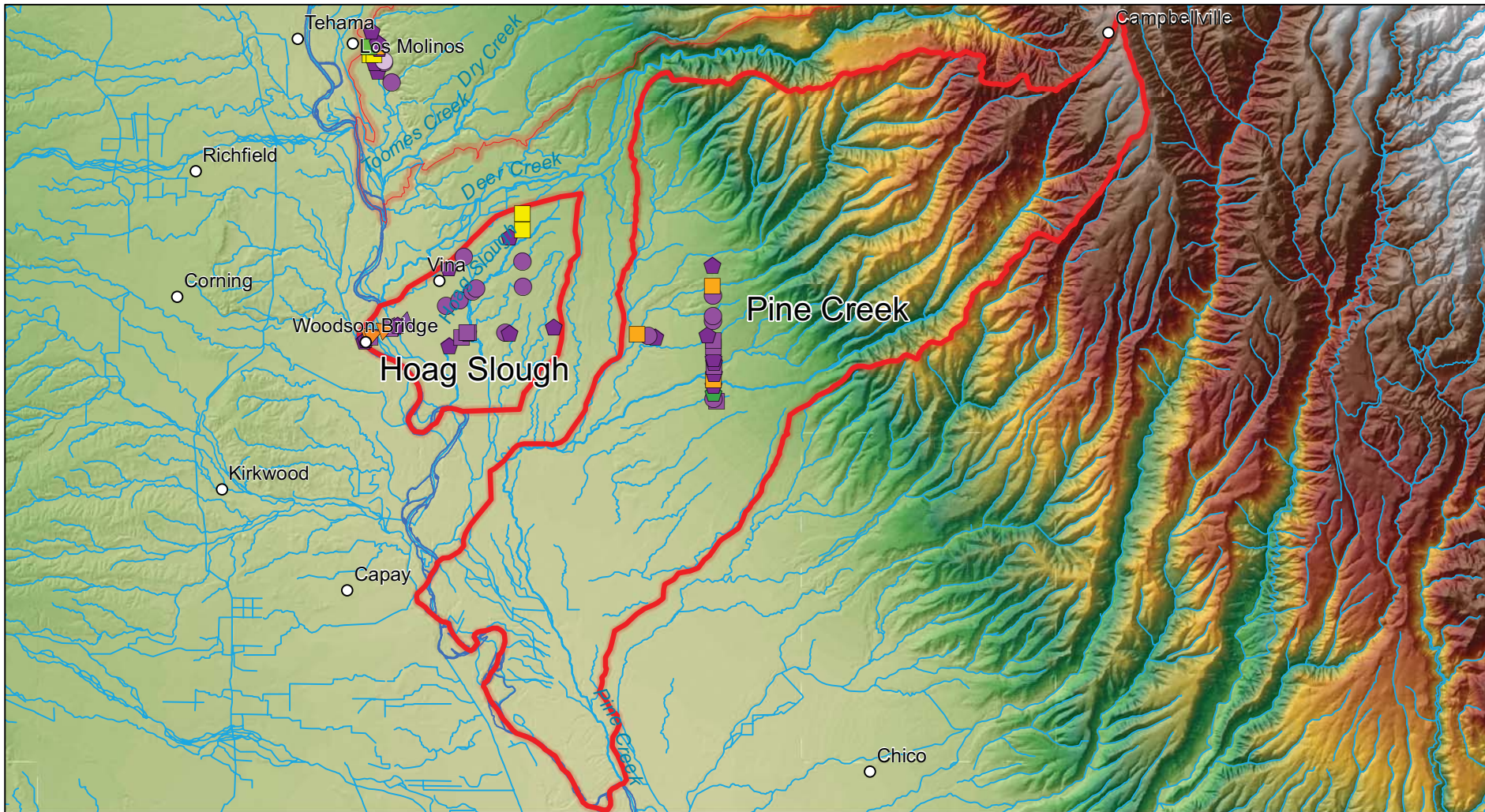
Watershed Boundary



Maps by Watersheds

Pine Creek and Hoag Slough Watersheds

Bridges, Culverts, Pipes, and Slabs.....	398
Canopy Cover.....	399
Critical Habitat: Spring-run Chinook.....	400
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Tehama East Watershed Assessment

Bridges, Culverts, Pipes, and Slabs
Hoag Slough and Pine Creek



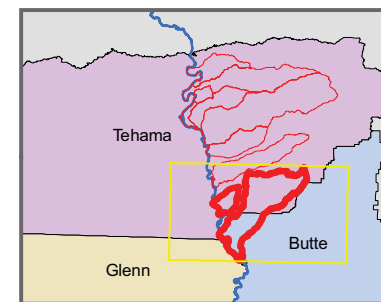
Tehama County Resource Conservation District
(c) 2010



KEY

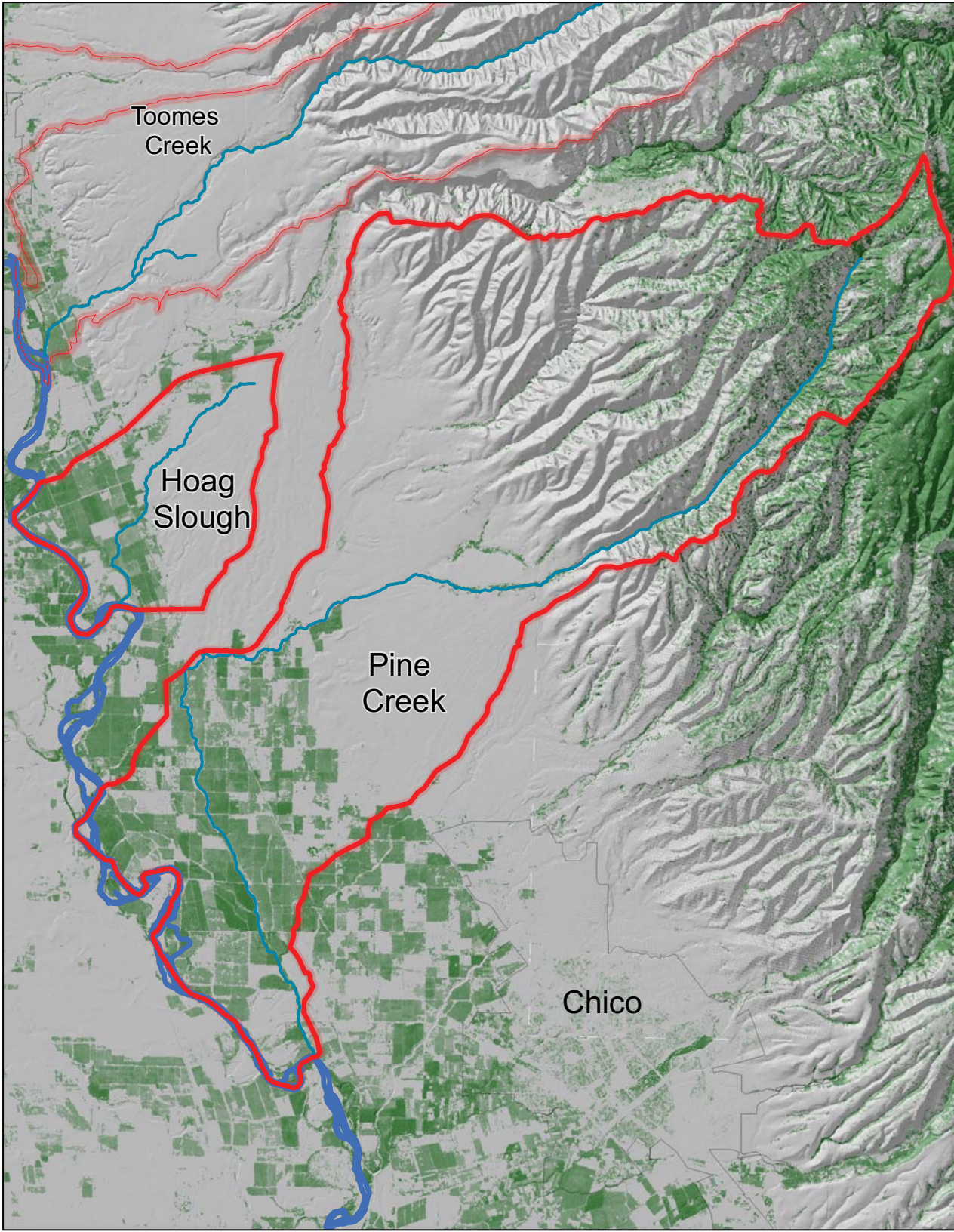
- | | |
|----------------------------|----------------------------|
| ■ Bridge-Abandoned | ● Culvert-Green |
| ■ Bridge-Green | ▲ Culvert-Orange/Green |
| ■ Bridge-Orange | ● Culvert-Purple |
| ■ Bridge-Purple | ● Culvert-Yellow |
| ▲ Bridge-Purple/Green | ○ Pipe-Purple (Non County) |
| ▲ Bridge-Purple/Orange | ● Pipe-Abandoned |
| ■ Bridge-Red | ● Pipe-Purple |
| ■ Bridge-Yellow | ★ Slab-Abandoned |
| ★ Bridge-Yellow (One Lane) | ★ Slab-Purple |

Watershed Boundary








Tehama East Watershed Assessment




CANOPY COVER Hoag Slough and Pine Creek

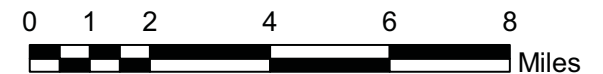


KEY

Canopy Cover Percent

-  0 - 15%
-  15 - 41%
-  41 - 60%
-  60 - 76%
-  76 - 100%

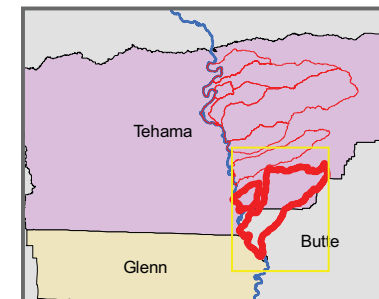
-  Urban Areas
-  Streams/Rivers
-  Watershed Boundary



Tehama County Resource
Conservation District

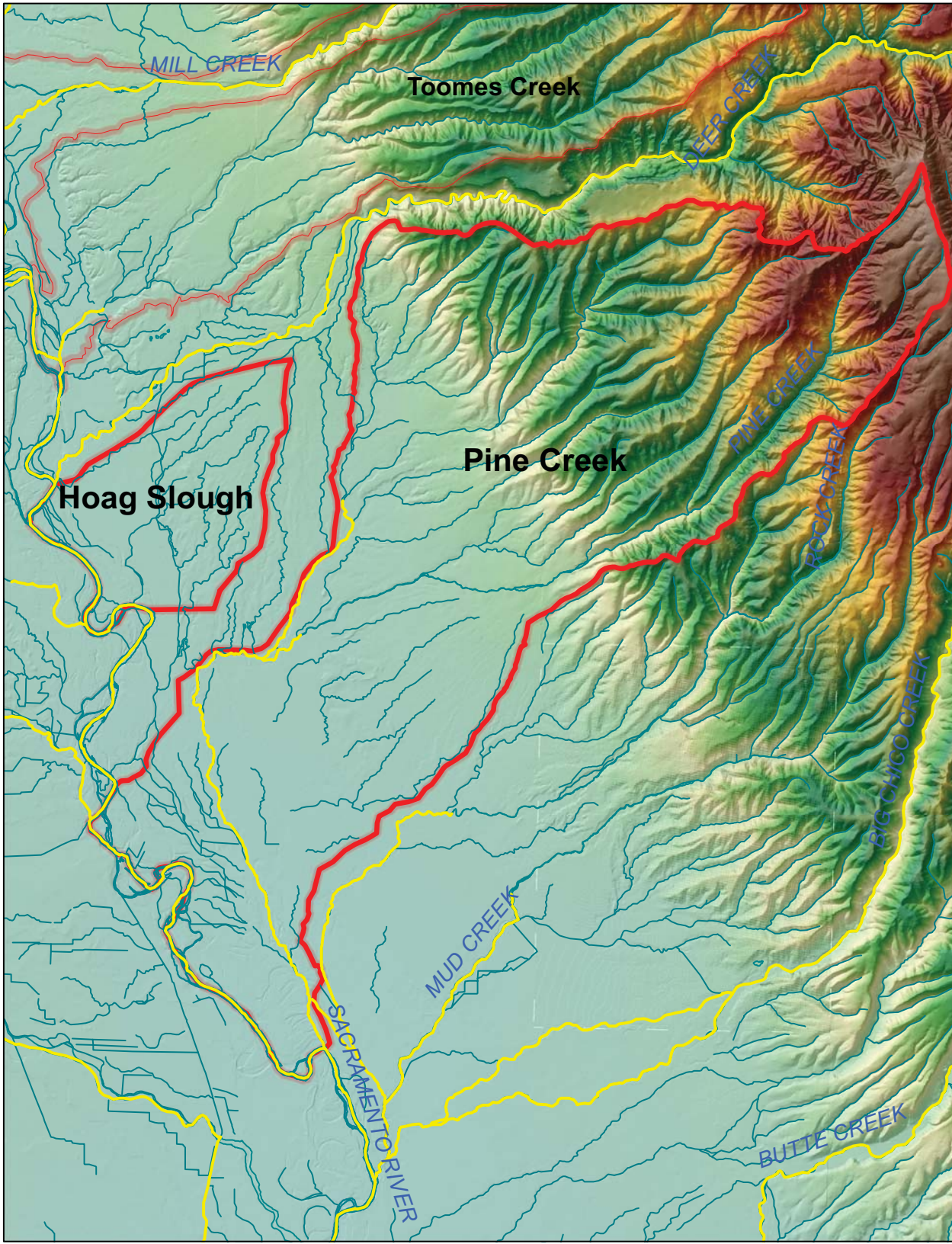
(c) 2010

<http://seamless.usgs.gov/products/nlcd01.php>




Tehama East Watershed Assessment


Critical Habitat
Spring-Run Chinook
Hoag Slough and Pine Creek

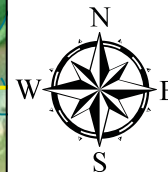
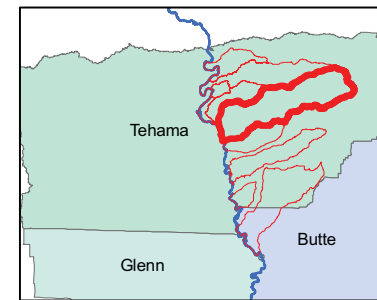


KEY

 Critical Habitat - Spring-Run Chinook

<http://www.calfish.org/DataampMaps/CalFishDataDownloads/tabid/93/Default.aspx>

 Watershed Boundary

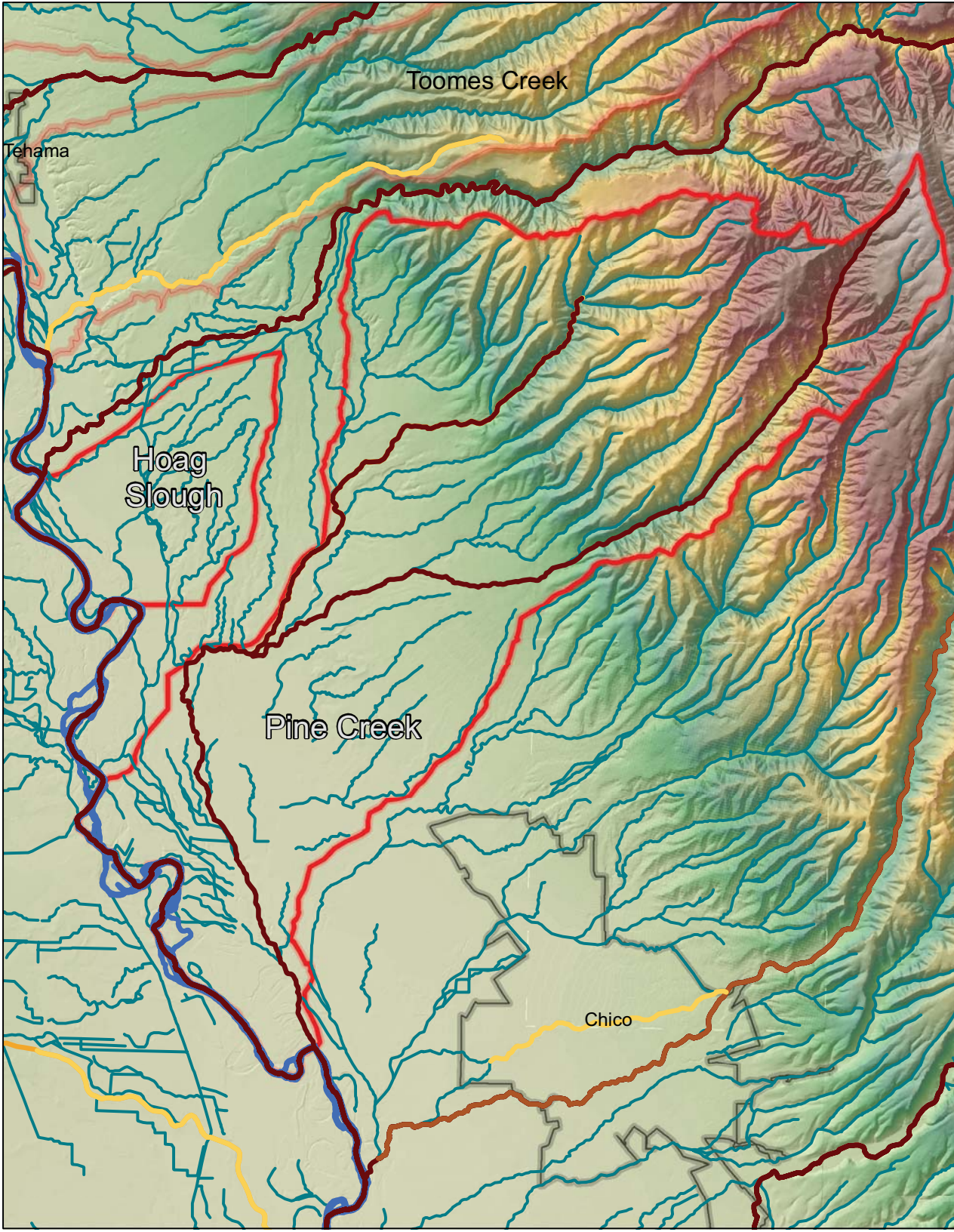


Tehama County Resource
Conservation District
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Tehama East Watershed Assessment

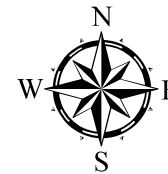
Chinook Surveys By Year Hoag Slough and Pine Creek



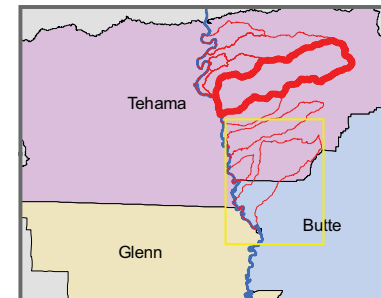
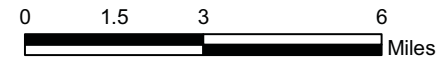
KEY

- | | | | |
|---|--------------------|---|----------------|
|  | Streams/Rivers |  | Year of Survey |
|  | Urban Areas |  | 1959 - 1970 |
|  | Watershed Boundary |  | 1971 - 1986 |
| | |  | 1987 - 1993 |
| | |  | 1994 - 1998 |
| | |  | 1999 - 2003 |

<http://www.calfish.org/DataampMaps/CalFishDataDownloads/tabid/93/Default.aspx>

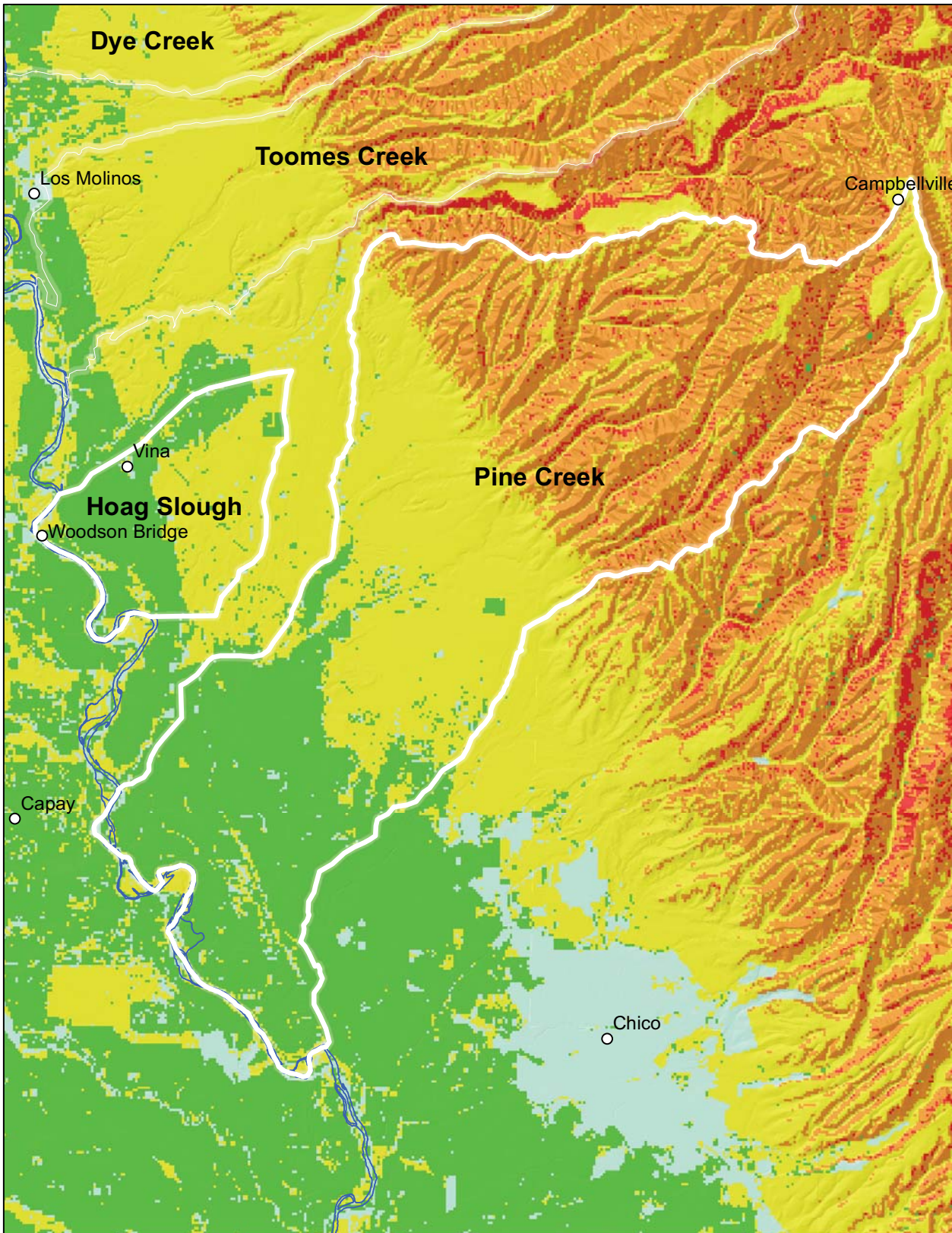


Tehama County Resource
Conservation District
(c)2010








Tehama East Watershed Assessment

Post-fire Erosion Potential Antelope Creek




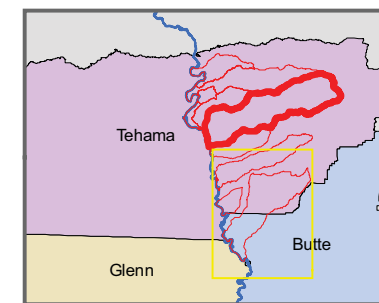
KEY

Erosion Classification

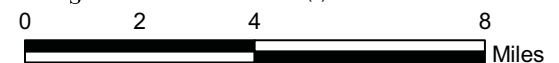
-  -1 : Areas without a Fuel Rank (generally Ag or Barren)
-  0 : Water and Urban areas outside scope of analysis
-  1 : Low
-  2 : Moderate
-  3 : High

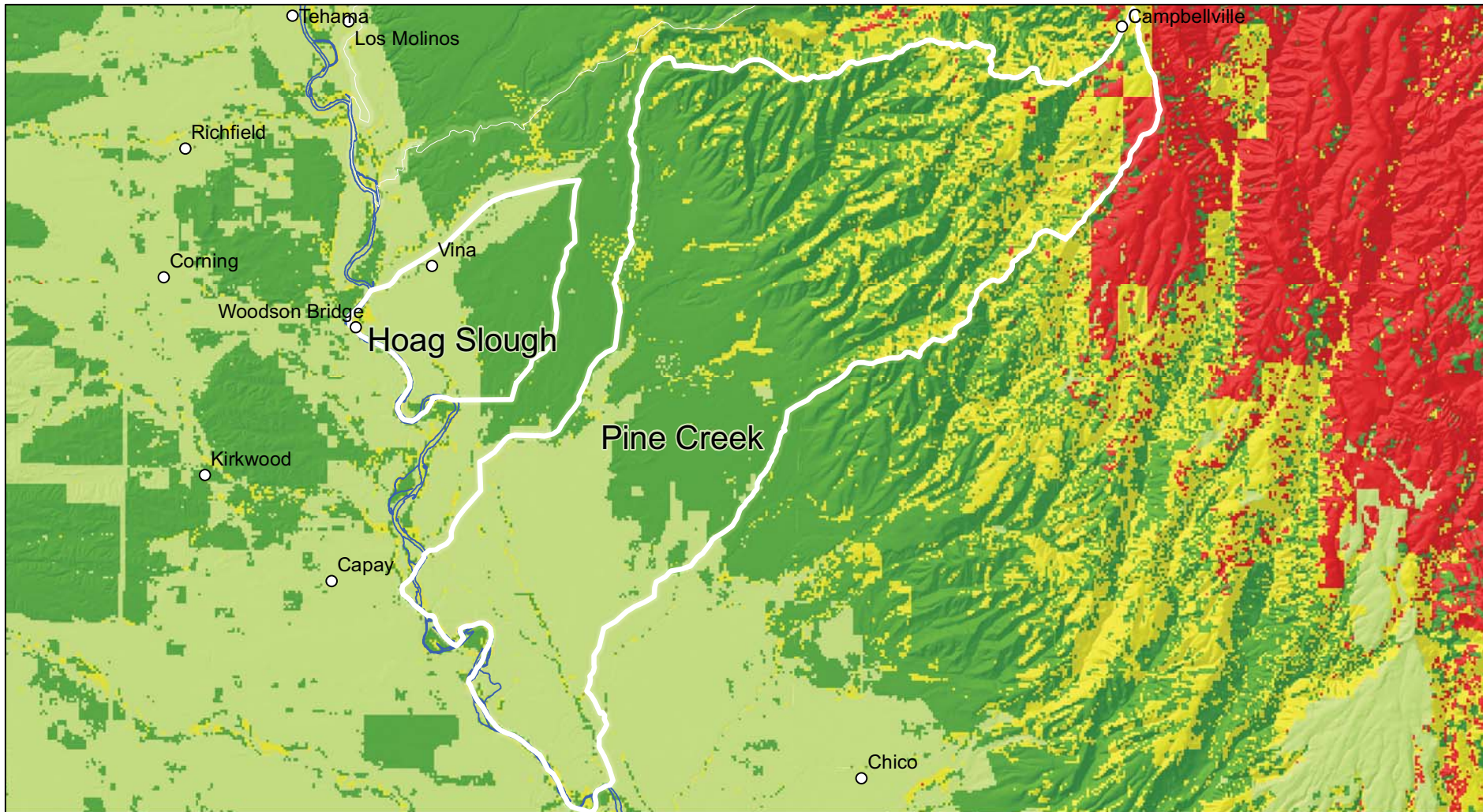
<http://frap.cdf.ca.gov/data/frapgisdata/download.asp?spatialdist=1&rec=period>

 Watershed Boundary



Tehama County Resource Conservation District
(c) 2010



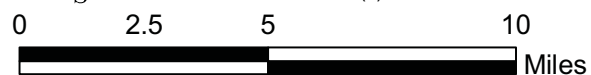


Tehama East Watershed Assessment

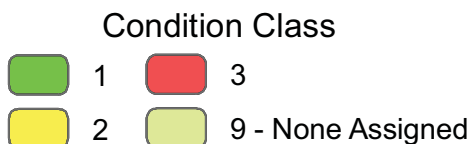
Fire Regime and Condition Class
Condition Class
Hoag Slough and Pine Creek



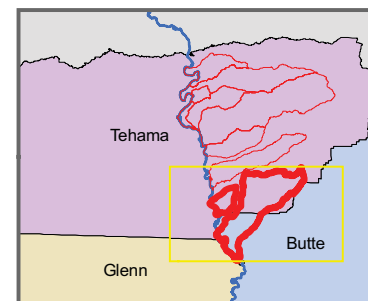
Tehama County Resource Conservation District
(c) 2010

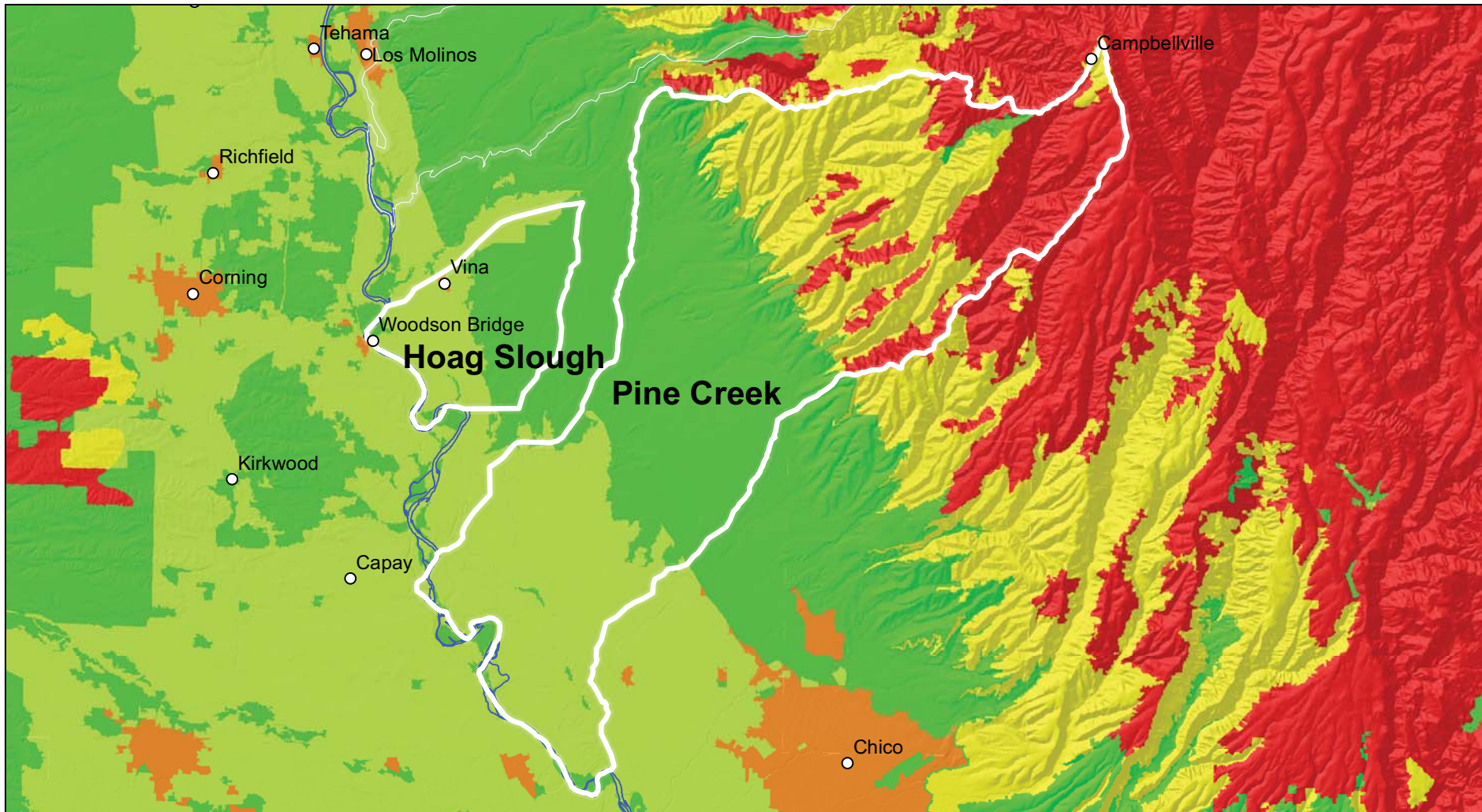


KEY



<http://frap.cdf.ca.gov/data/frapgisdata/download.asp?spatialdist=1&rec=cafrcc>



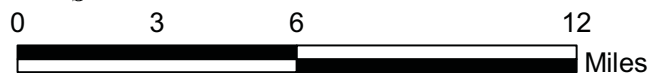


Tehama East Watershed Assessment

Fire Hazard Severity Zoning
 2007 DRAFT - FRAP
 Hoag Slough and Pine Creek



Tehama County Resource Conservation District
 (c) 2010

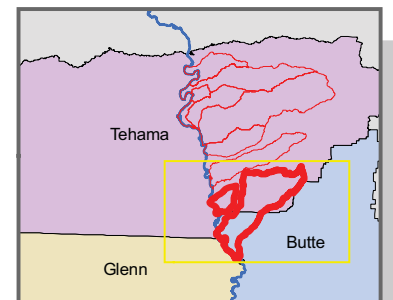


KEY

Hazard Class

- Moderate
- High
- Very High
- Non-Wildland/Non-Urban
- Urban Unzoned

Watershed Boundary







Tehama East Watershed Assessment


Fire Regime
and Condition Class
Fuel Ranking
Hoag Slough and Pine Creek

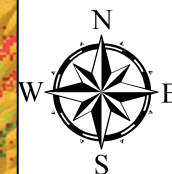
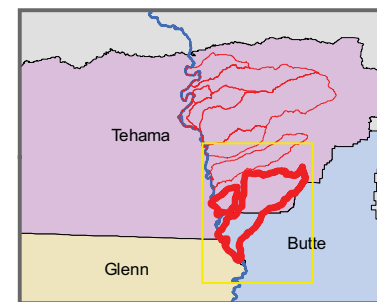
KEY

Fuel Ranking

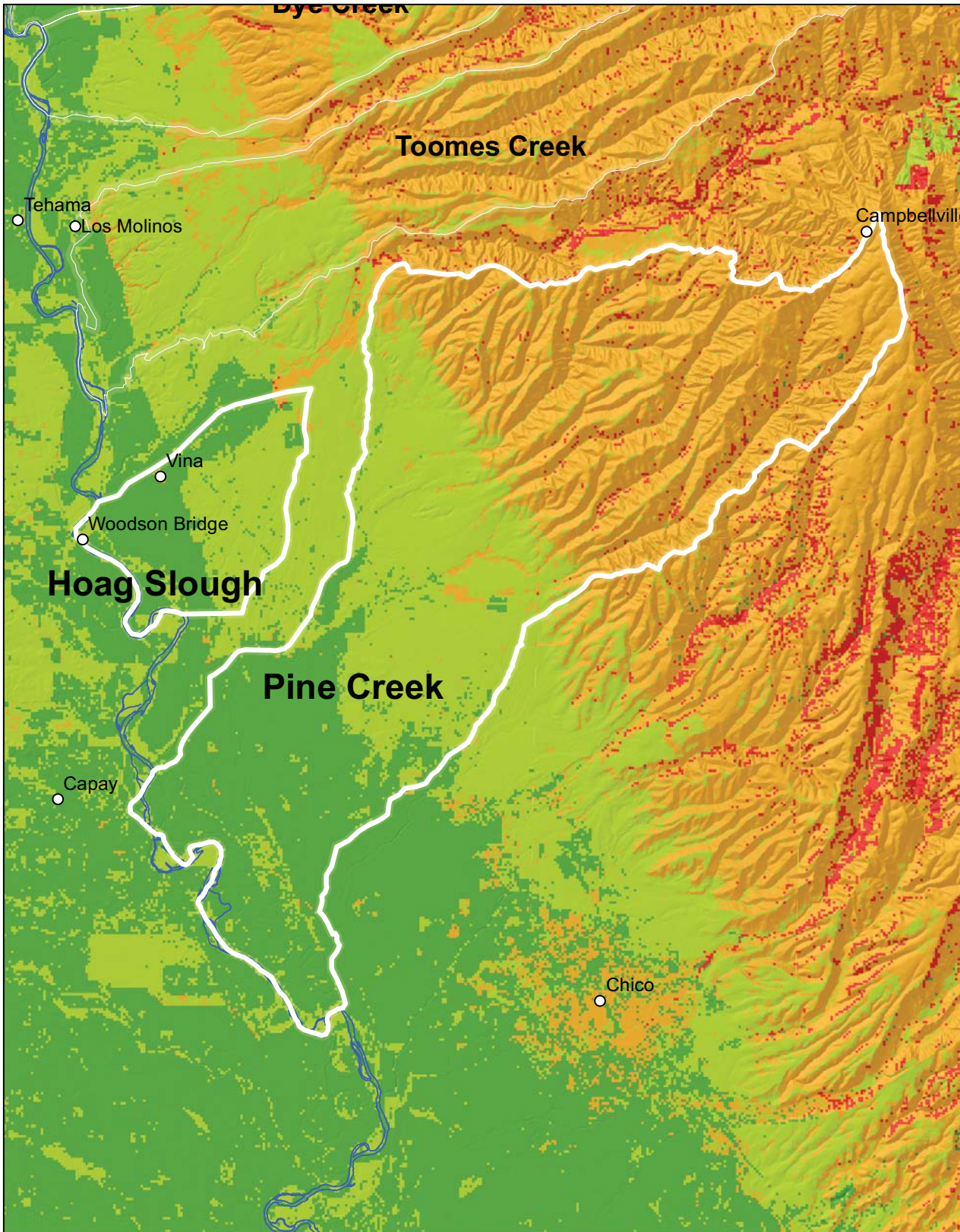
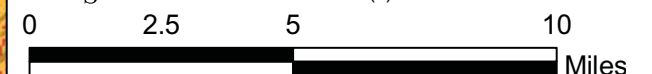
-  -1 - Little or No Hazard
-  1 - Moderate Hazard
-  2 - High Hazard
-  3 - Very High Hazard

<http://frap.cdf.ca.gov/data/frapgisdata/download.asp?spatialdist=1&rec=cafrcc>

-  Watershed Boundary

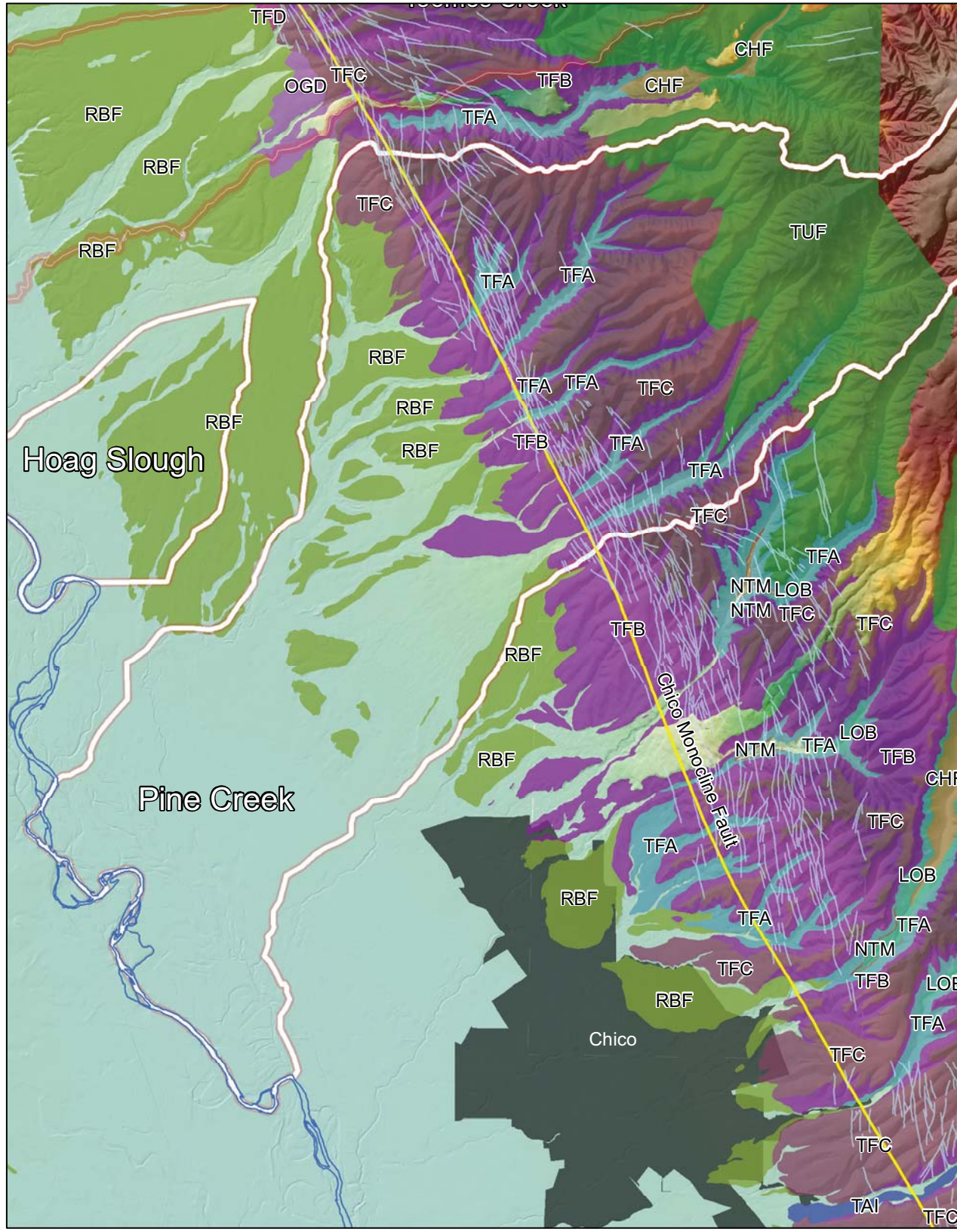


Tehama County Resource Conservation District
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Tehama East Watershed Assessment

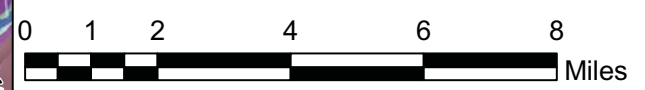
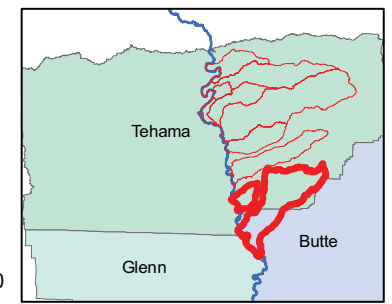
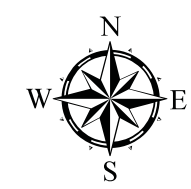
Selected Geological Formations, Fault Lines and Monoclines Hoag Slough and Pine Creek



Legend

- Selected Geology**
- CHF Chico Formation
 - CBB Cinder Cone Deposits, Black Butte
 - CDB Cinder Cone Deposits, Digger Butte
 - CIH Cinder Cone Deposits, Inskipp Hill
 - LAN Landslides
 - LOB Lovejoy Basalt
 - NTM Nomlaki Tuff Member
 - OGD Older Gravel Deposits
 - RBF Red Bluff Formation
 - TAI Tailings
 - TEH Tehama Formation
 - TUF Tuscan Formation
 - TFA Unit A, Tuscan Formation
 - TFB Unit B, Tuscan Formation
 - TFC Unit C, Tuscan Formation
 - TFD Unit D, Tuscan Formation
 - Chico Monocline Lineaments
 - Fault Lines
 - Urban Areas
 - Watershed Boundary

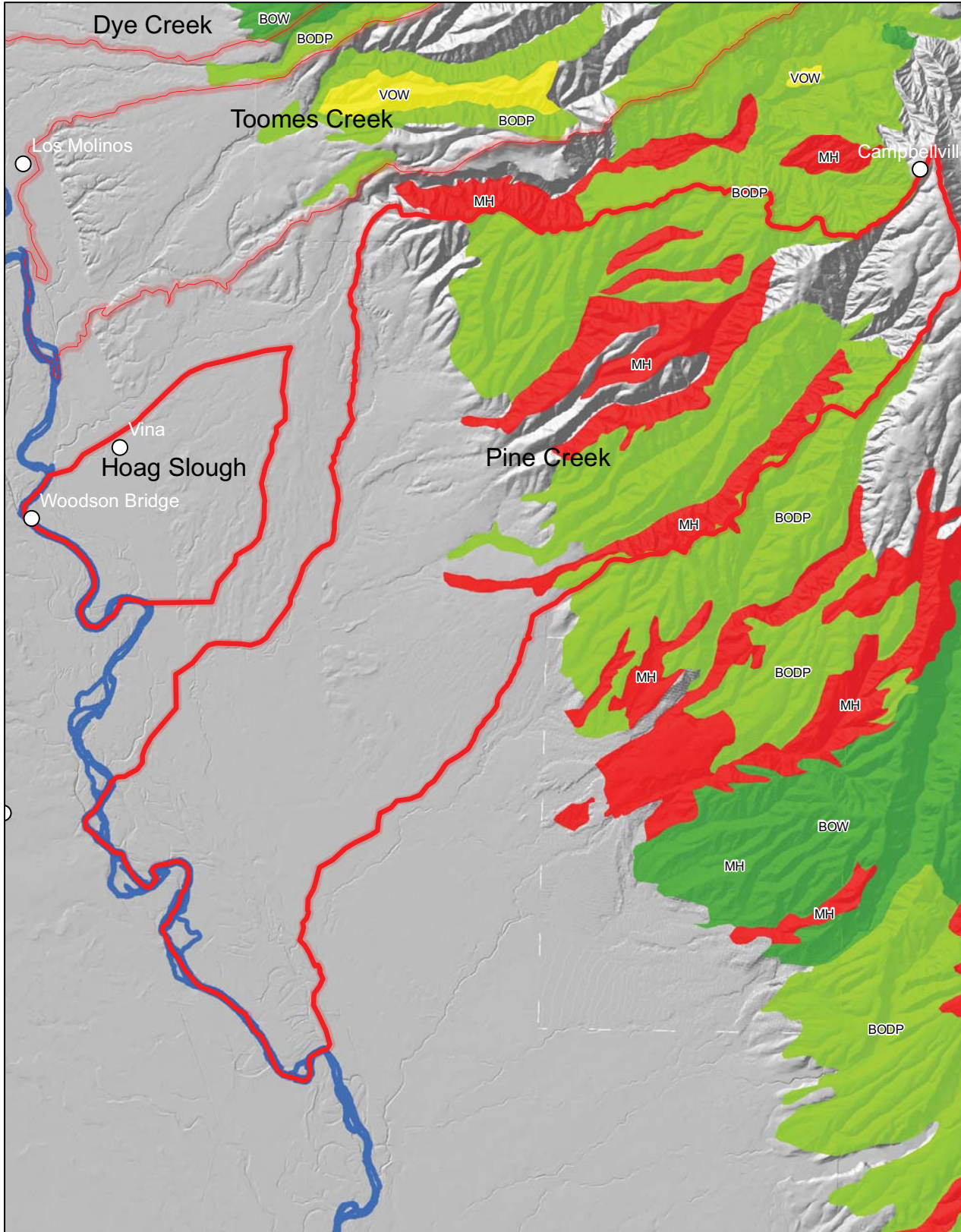
<http://projects.atlas.ca.gov/projects/sacvalleygeol>



4/2010

Tehama East Watershed Assessment

Hardwood Rangelands
Hoag Slough and Pine Creek



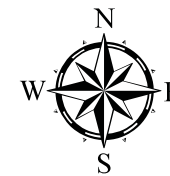
KEY

Cover Type

- BODP - Blue Oak \ Foothill Pine
- BOW - Blue Oak Woodland
- MH - Montane Hardwoods
- OTHER - Non-Hardwood
- VOW - Valley Oak Woodland

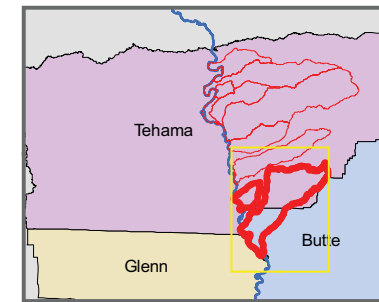
<http://frap.cdf.ca.gov/data/frapgisdata/download.asp?rec=hardwoods>

- Watershed Boundary
- Streams/Rivers
- Communities



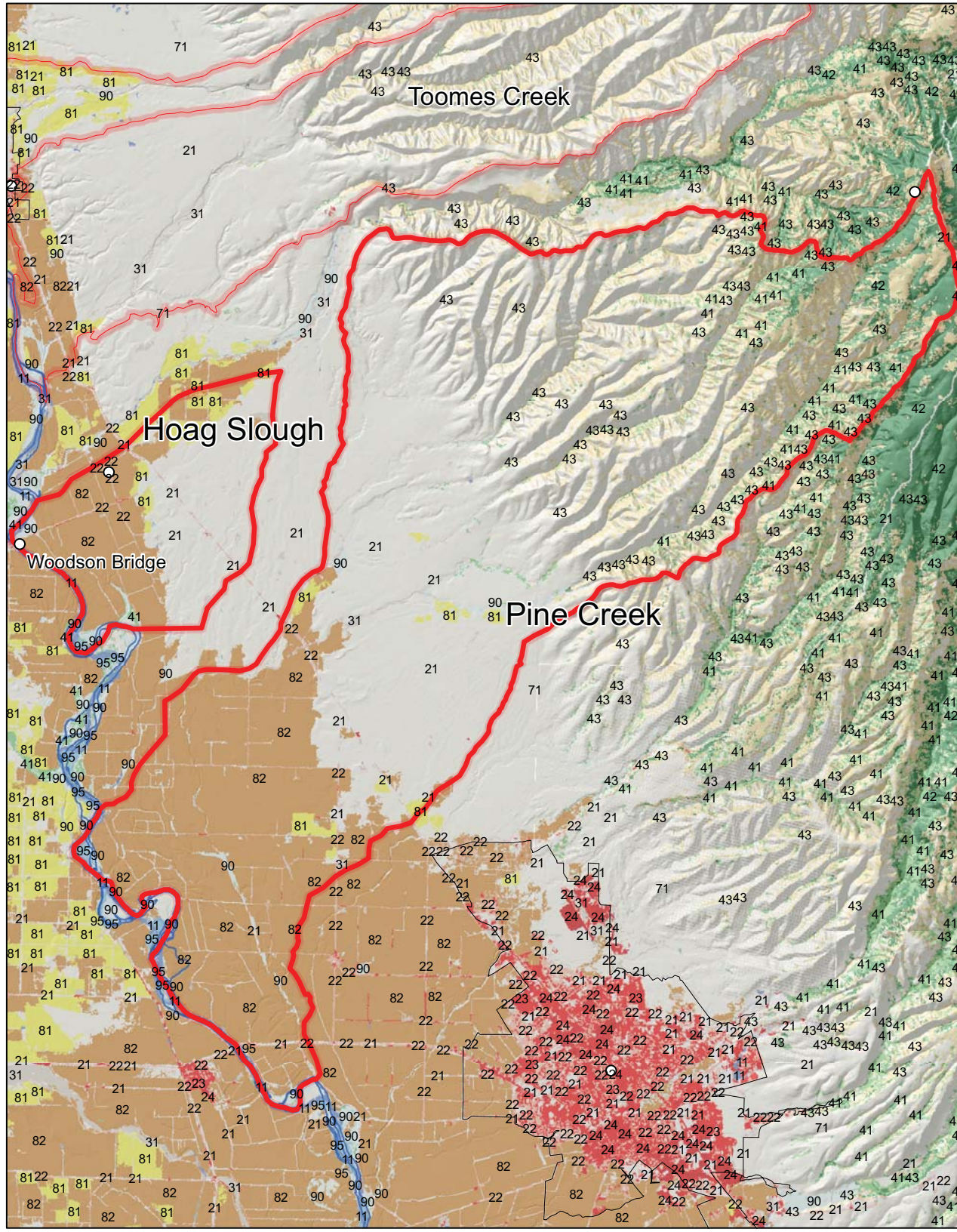
Tehama County Resource
Conservation District

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Tehama East Watershed Assessment



Land Cover
National Land Cover Database
Hoag Slough and Pine Creek

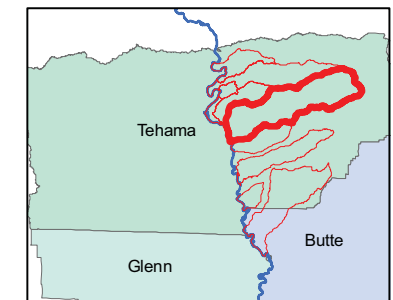
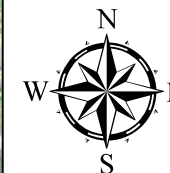


Legend

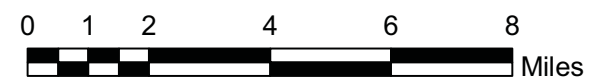
-  11 - Open Water
-  21 - Developed, Open Space
-  22 - Developed, Low Intensity
-  23 - Developed, Medium Intensity
-  24 - Developed, High Intensity
-  31 - Bare Rock/Sand/Clay
-  41 - Deciduous Forest
-  42 - Evergreen Forest
-  43 - Mixed Forest
-  52 - Shrub/Scrub
-  71 - Grasslands/Herbaceous
-  81 - Pasture/Hay
-  82 - Cultivated Crops
-  90 - Woody Wetlands
-  95 - Emergent Herbaceous Wetlands

http://www.mrlc.gov/nlcd_multizone_map.php
Homer, C. C. Huang, L. Yang, B. Wylie and M. Coan. 2004. Development of a 2001 National Landcover Database for the United States. Photogrammetric Engineering and Remote Sensing, Vol. 70, No. 7, July 2004, pp. 829-840.

-  Urban Areas
-  Watershed Boundary



4/2010



Tehama East Watershed Assessment

Land Use - Agriculture

Department of Water Resources
Hoag Slough

KEY

Land Use - Agriculture

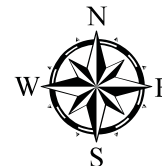
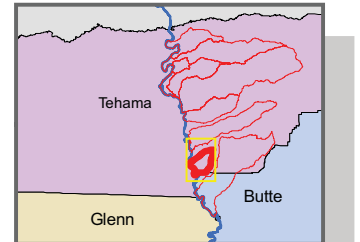
- | | |
|--------------------------------------|-------------------------------------|
| C3 - Oranges | G - Grain & Hay Crops |
| C6 - Olives | G1 - Barley |
| C7 - Miscellaneous Subtropical Fruit | G2 - Wheat |
| C8 - Kiwis | G3 - Oats |
| C10 - Eucalyptus | G6 - Miscellaneous Grain & Hay |
| D1 - Apples | G - Grain & Hay Crops ** |
| D2 - Apricots | I1 - Not cropped last 3 years |
| D3 - Cherries | I2 - New, prepared for crops |
| D5 - Peaches and Nectarines | P1 - Alfalfa & alfalfa mixtures |
| D6 - Pears | P2 - Clover |
| D8 - Prunes | P3 - Mixed Pasture |
| D9 - Figs | P4 - Native Pasture |
| D10 - Miscellaneous Deciduous | P5 - High Water Nat. Pas. |
| D12 - Almonds | P7 - Turf Farms |
| D13 - Walnuts | P - Pasture ** |
| D14 - Pistachios | R - Rice |
| F - Field Crops | R2 - Rice ** |
| F1 - Cotton | T2 - Asparagus |
| F2 - Safflower | T9 - Melons, squash, and cucumbers |
| F3 - Flax | T10 - Onions and Garlic |
| F5 - Sugar Beets | T15 - Tomatoes |
| F6 - Corn, Field & Sweet | T16 - Flowers, Nursery & Tree Farms |
| F8 - Sudan | T18 - Miscellaneous Truck Farms |
| F - Field Crops ** | T19 - Bush Berries |
| F10 - Beans, Dry | T20 - Strawberries |
| F11 - Miscellaneous Field | V - Vineyards |
| F12 - Sunflowers | V2 - Wine Grapes |
| | V - Vineyards ** |

** No specific crop was assigned.

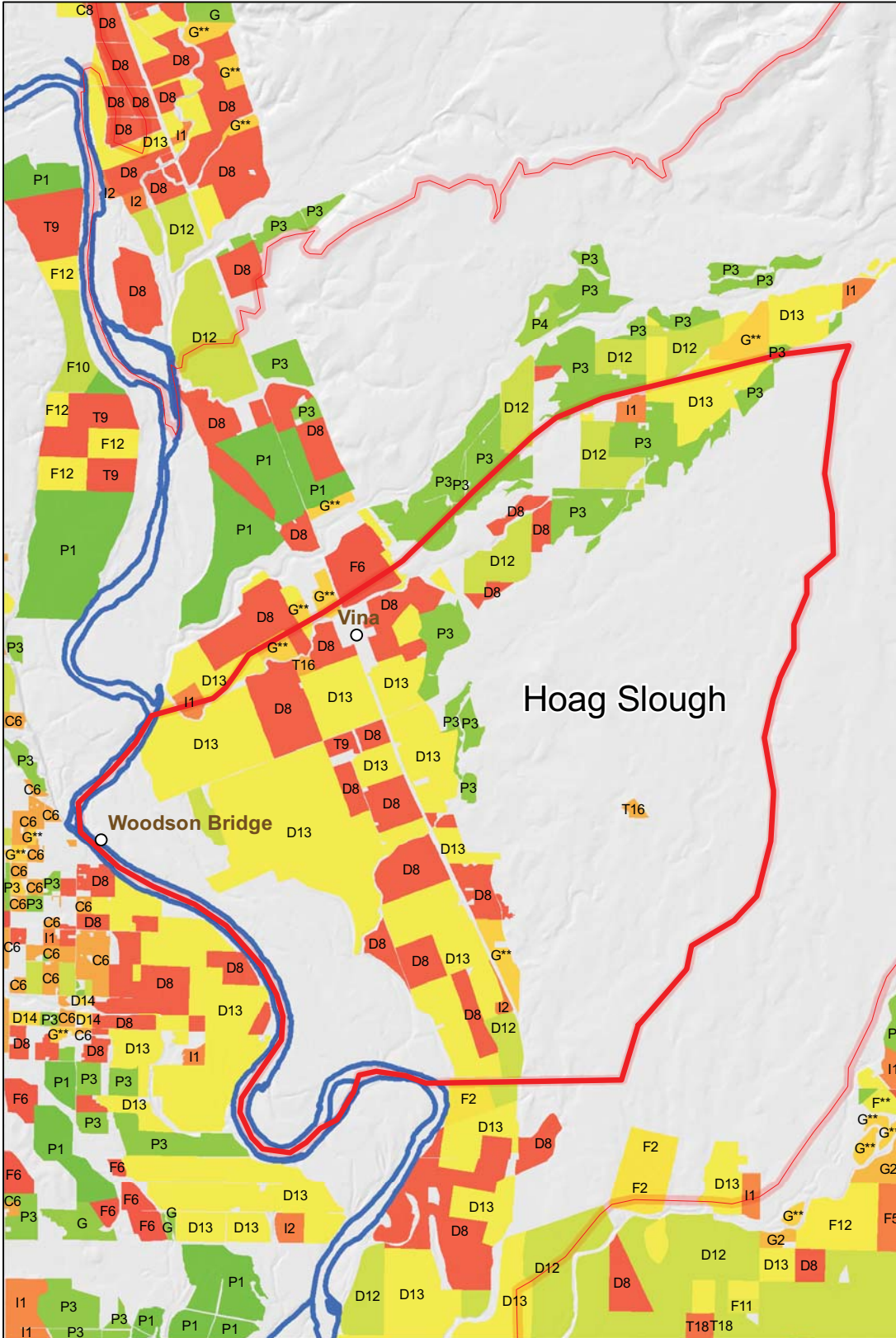
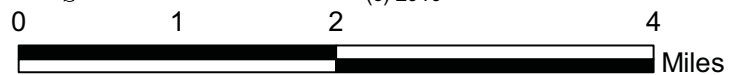
<http://www.water.ca.gov/landwateruse/lusrvymain.cfm>

 Urban Areas

 Watershed Boundary



Tehama County Resource Conservation District
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Tehama East Watershed Assessment

Land Use - Agriculture

Department of Water Resources Pine Creek


KEY

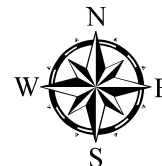
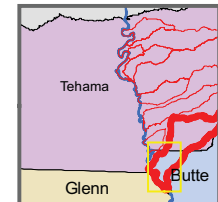
Land Use - Agriculture

- | | |
|--------------------------------------|-------------------------------------|
| C3 - Oranges | G - Grain & Hay Crops |
| C6 - Olives | G1 - Barley |
| C7 - Miscellaneous Subtropical Fruit | G2 - Wheat |
| C8 - Kiwis | G3 - Oats |
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| D1 - Apples | G - Grain & Hay Crops ** |
| D2 - Apricots | I1 - Not cropped last 3 years |
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| D5 - Peaches and Nectarines | P1 - Alfalfa & alfalfa mixtures |
| D6 - Pears | P2 - Clover |
| D8 - Prunes | P3 - Mixed Pasture |
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| D14 - Pistachios | R - Rice |
| F - Field Crops | R - Rice ** |
| F1 - Cotton | T2 - Asparagus |
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| F - Field Crops ** | T19 - Bush Berries |
| F10 - Beans, Dry | T20 - Strawberries |
| F11 - Miscellaneous Field | V - Vineyards |
| F12 - Sunflowers | V2 - Wine Grapes |
| ** No specific crop was assigned. | V - Vineyards ** |

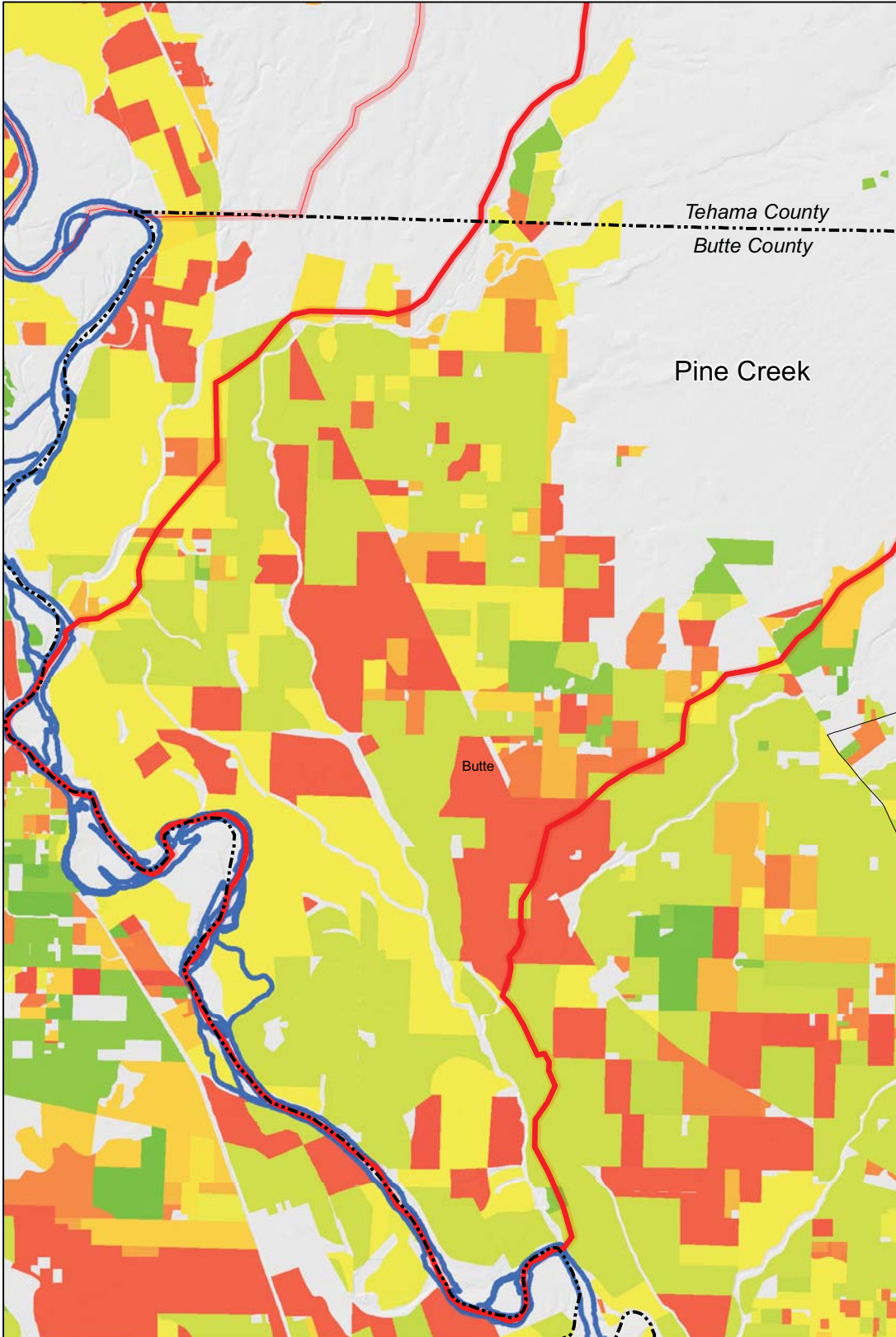
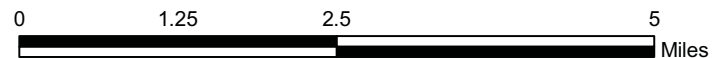
<http://www.water.ca.gov/landwateruse/lusrvmain.cfm>

 Urban Areas

 Watershed Boundary



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Tehama East Watershed Assessment

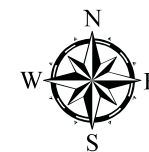
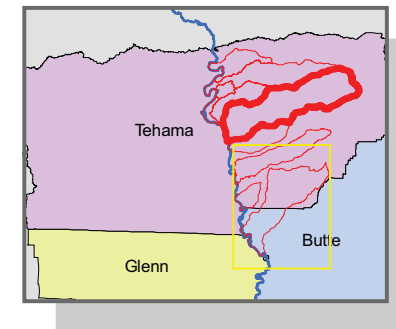
Managementscapes CalFire - FMMP (2000) Hoag Slough and Pine Creek

Managementscape Grid Code

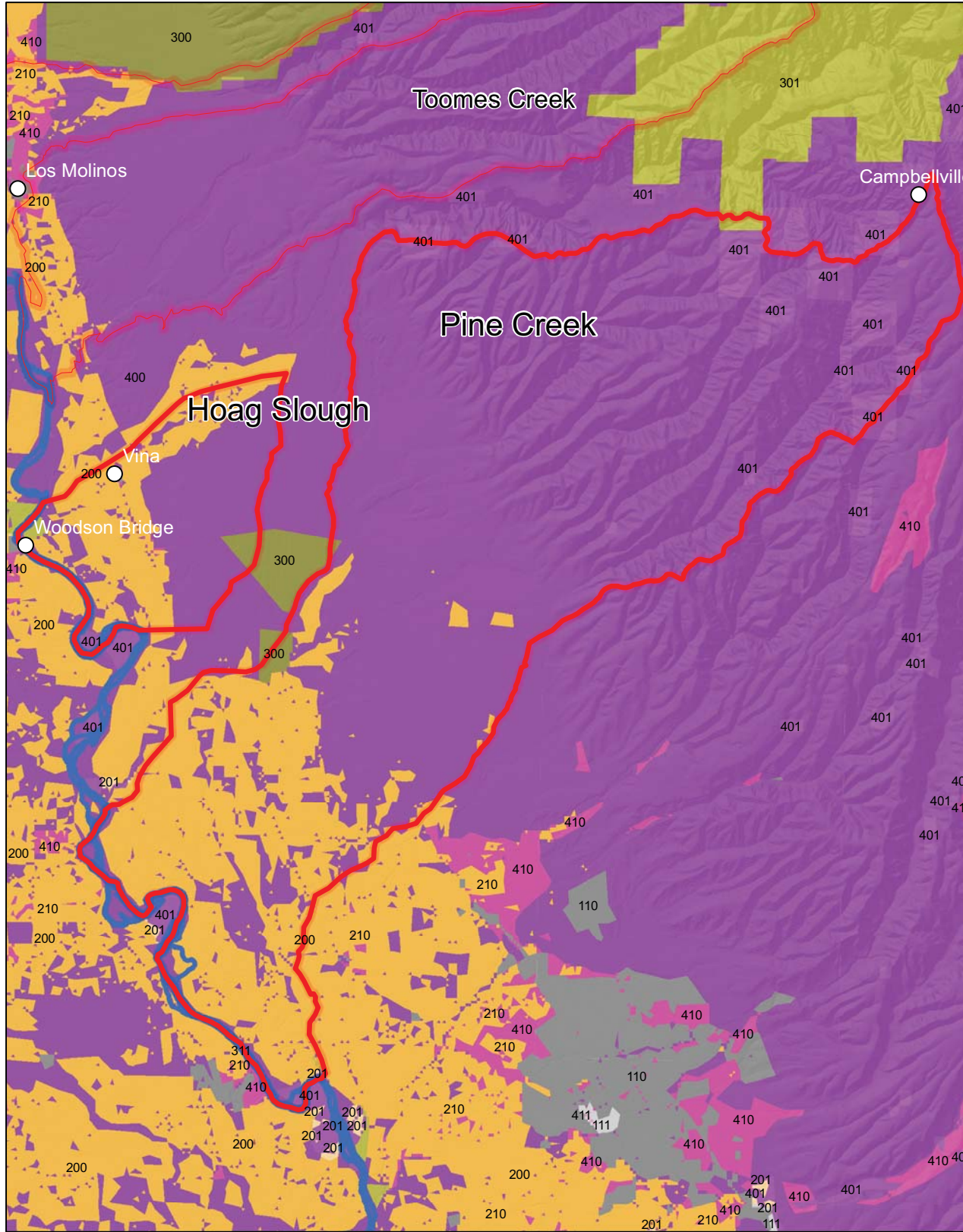
- 110 - URBAN/PRIVATE
- 111 - URBAN/PUBLIC
- 200 - AG/SPARSE RES/PRIVATE
- 201 - AG/SPARSE RES/PUBLIC
- 210 - AG/RURAL RES/PRIVATE
- 300 - RESERVE/SPARSE RES/PRIVATE
- 301 - RESERVE/SPARSE RES/PUBLIC
- 310 - RESERVE/RURAL RES/PRIVATE
- 311 - RESERVE/RURAL RES/PUBLIC
- 400 - WORKING/SPARSE RES/PRIVATE
- 401 - WORKING/SPARSE RES/PUBLIC
- 410 - WORKING/RURAL RES/PRIVATE
- 411 - WORKING/RURAL RES/PUBLIC

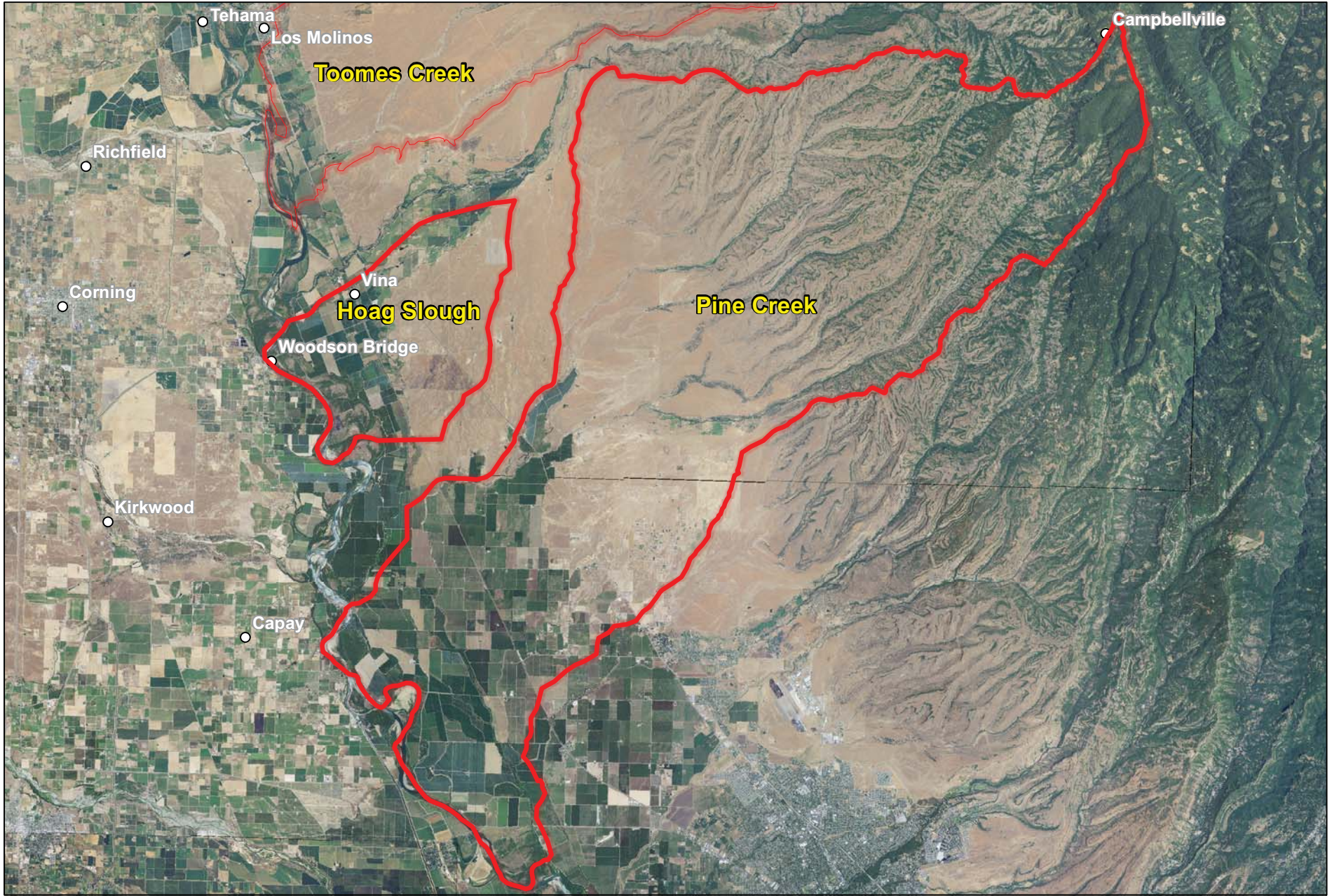
<http://frap.cdf.ca.gov/data/frapgisdata/download.asp?rec=mgmtscape>

- Watershed Boundary
- Sacramento River
- Communities



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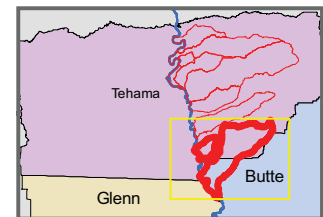
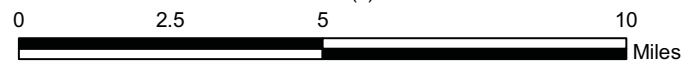
Tehama East Watershed Assessment

NAIP 2009

Hoag Slough and Pine Creek

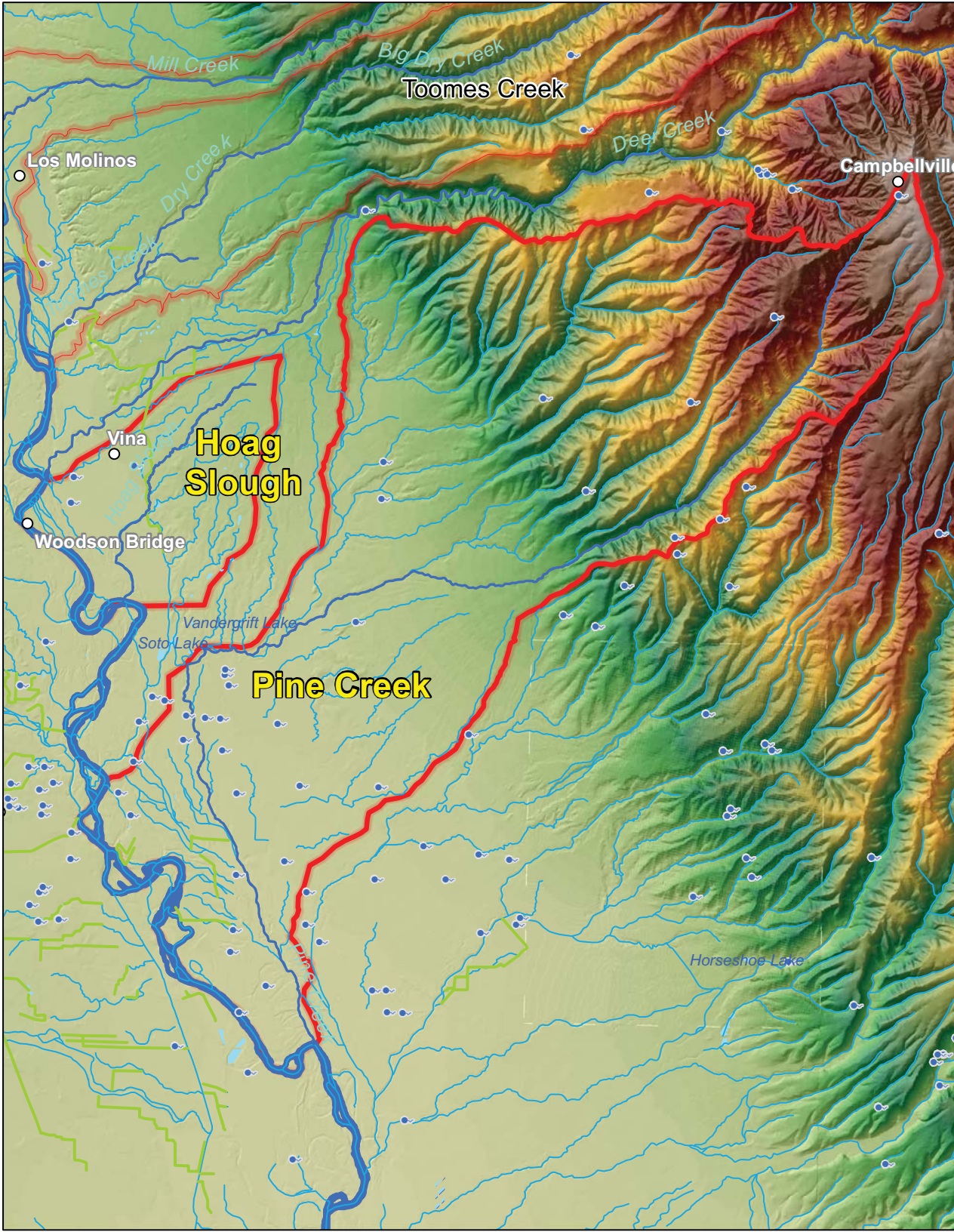


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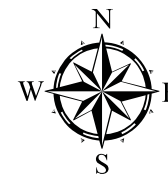
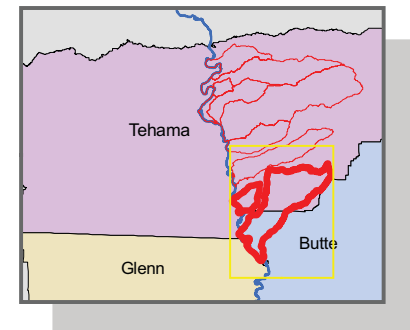
Tehama East Watershed Assessment

Water Features
National Hydrography Dataset
USGS
Hoag Slough and Pine Creek



KEY

-  Springs
-  Canal/Ditch
-  Streams/Rivers
-  Lake or Pond
- <http://nhd.usgs.gov/data.html>
-  Watershed Boundary



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Tehama East Watershed Assessment

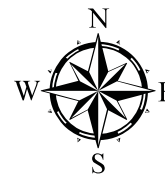
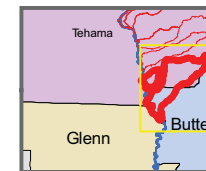
National Wetland Inventory
 US Fish & Wildlife Service
 Hoag Slough and Pine Creek

Legend

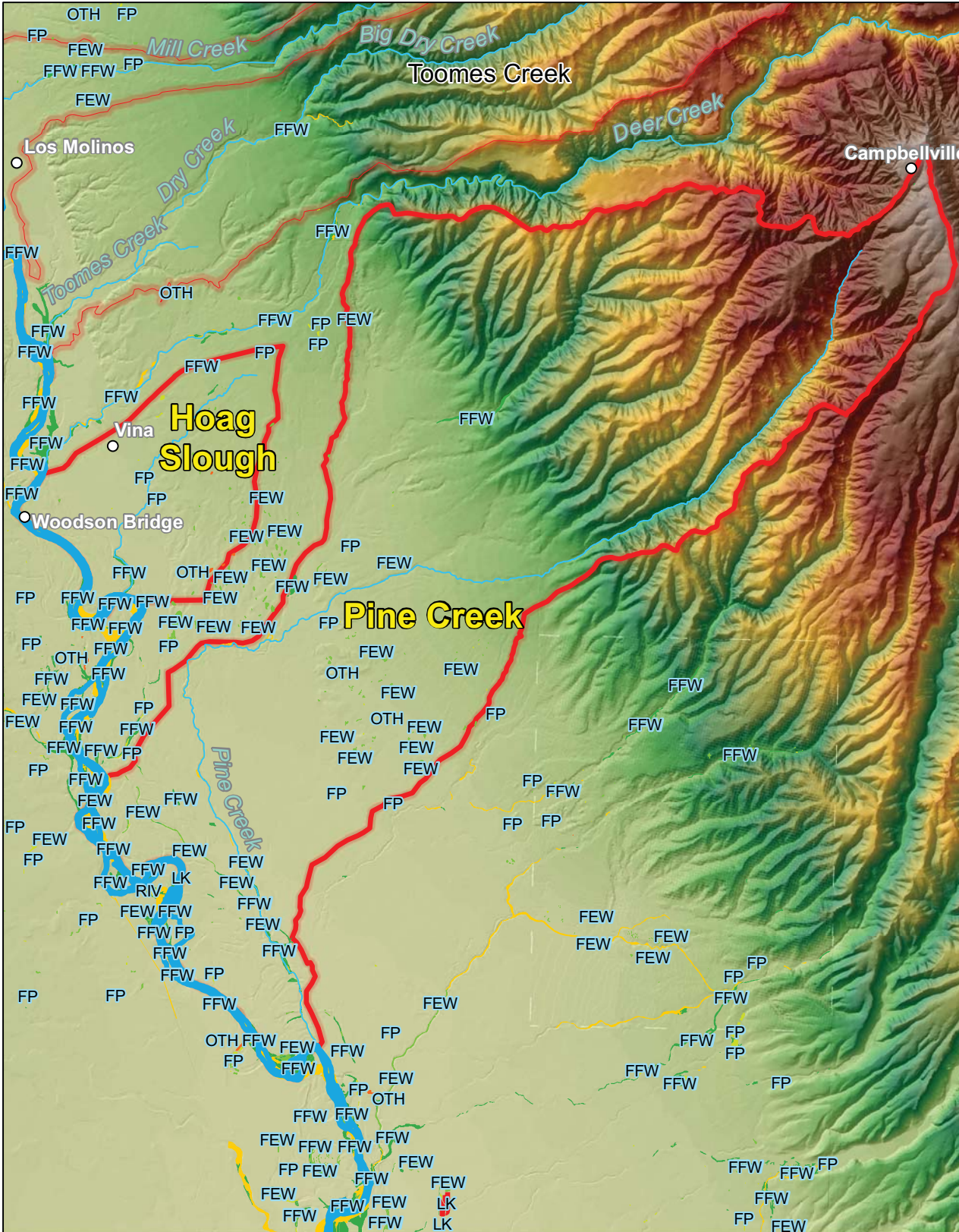
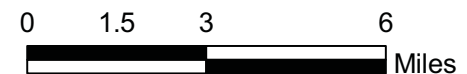
Wetland Type

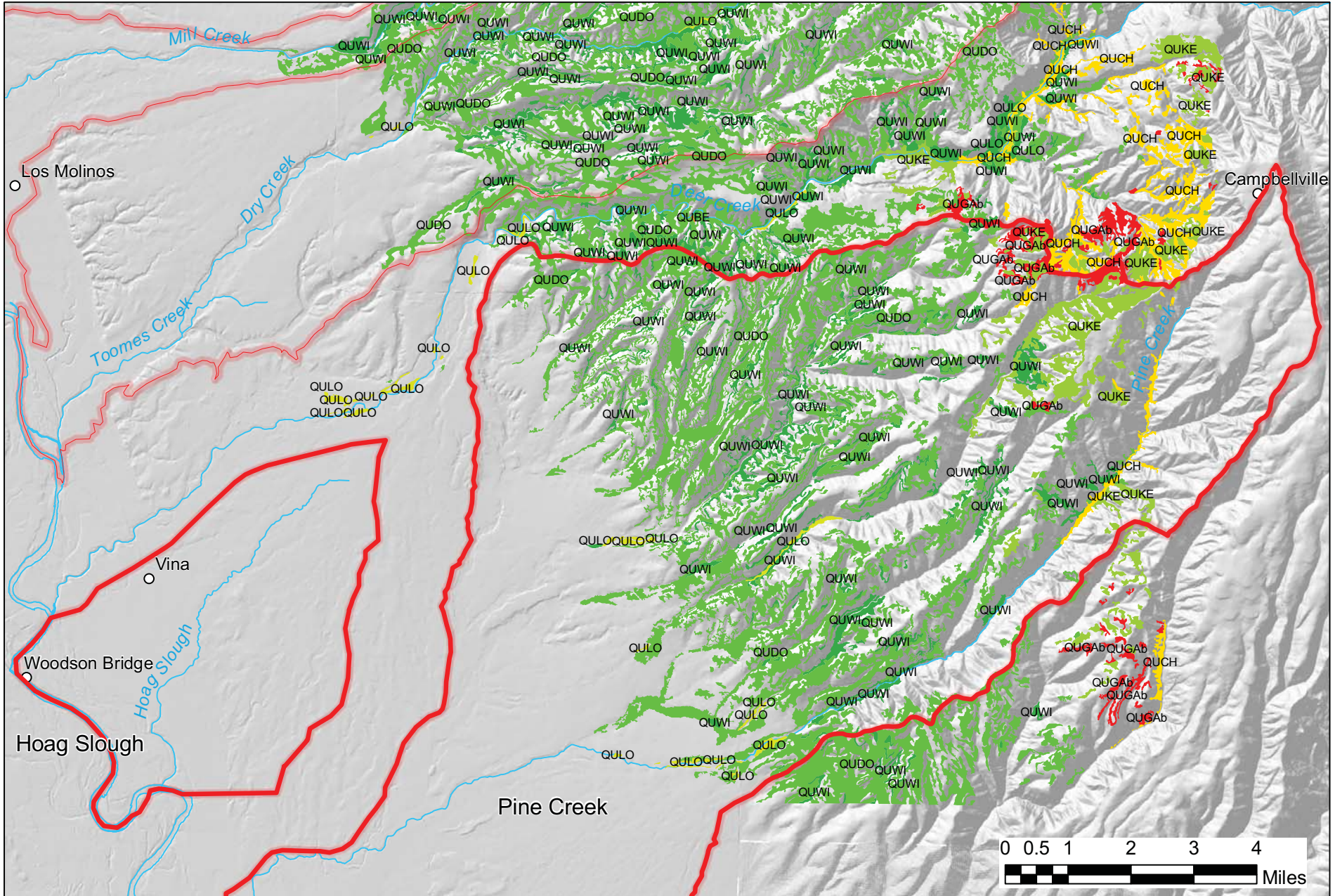
-  Freshwater Emergent Wetland
-  Freshwater Forested/Shrub Wetland
-  Freshwater Pond
-  Lake
-  Other
-  Riverine
-  Watershed Boundary

<http://www.fws.gov/wetlands/Data/DataDownload.html>



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Tehama East Watershed Assessment

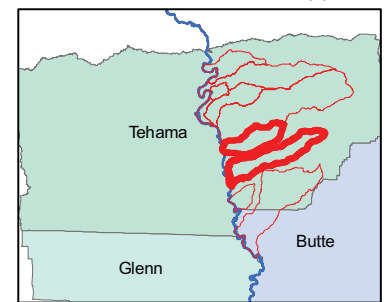
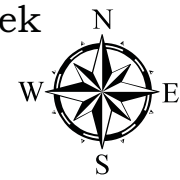
Oak Woodlands TNC, CNPS, TCRCD Special Project Hoag Slough and Upper Pine Creek

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Legend

- | | |
|--|--|
| QUWI Quercus wislizeni (Interior Live Oak Tree) | QUCH Quercus chrysolepis (Canyon Live Oak) |
| QUDO Quercus douglasii (Blue Oak) | QUBE Quercus berberidifolia (scrub oak) |
| QUKE Quercus kelloggii (Black Oak) | QUDU Quercus durata (Leather Oak) |
| QULO Quercus lobata (Valley Oak) | QUGAb Quercus garryana/ var. breweri (Brewer Oak) |

 Watershed Boundary





Tehama East Watershed Assessment

Land Ownership Hoag Slough and Pine Creek


State Lands: 130 Acres
 US Forest Service: 2,877 Acres
 BLM: 1,303 Acres
 USFWS: 0
 Private: 85,608 Acres

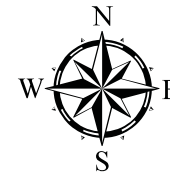
Legend

-  State Lands
-  US National Forest
-  US Bureau of Land Management
-  US Fish and Wildlife
-  Private

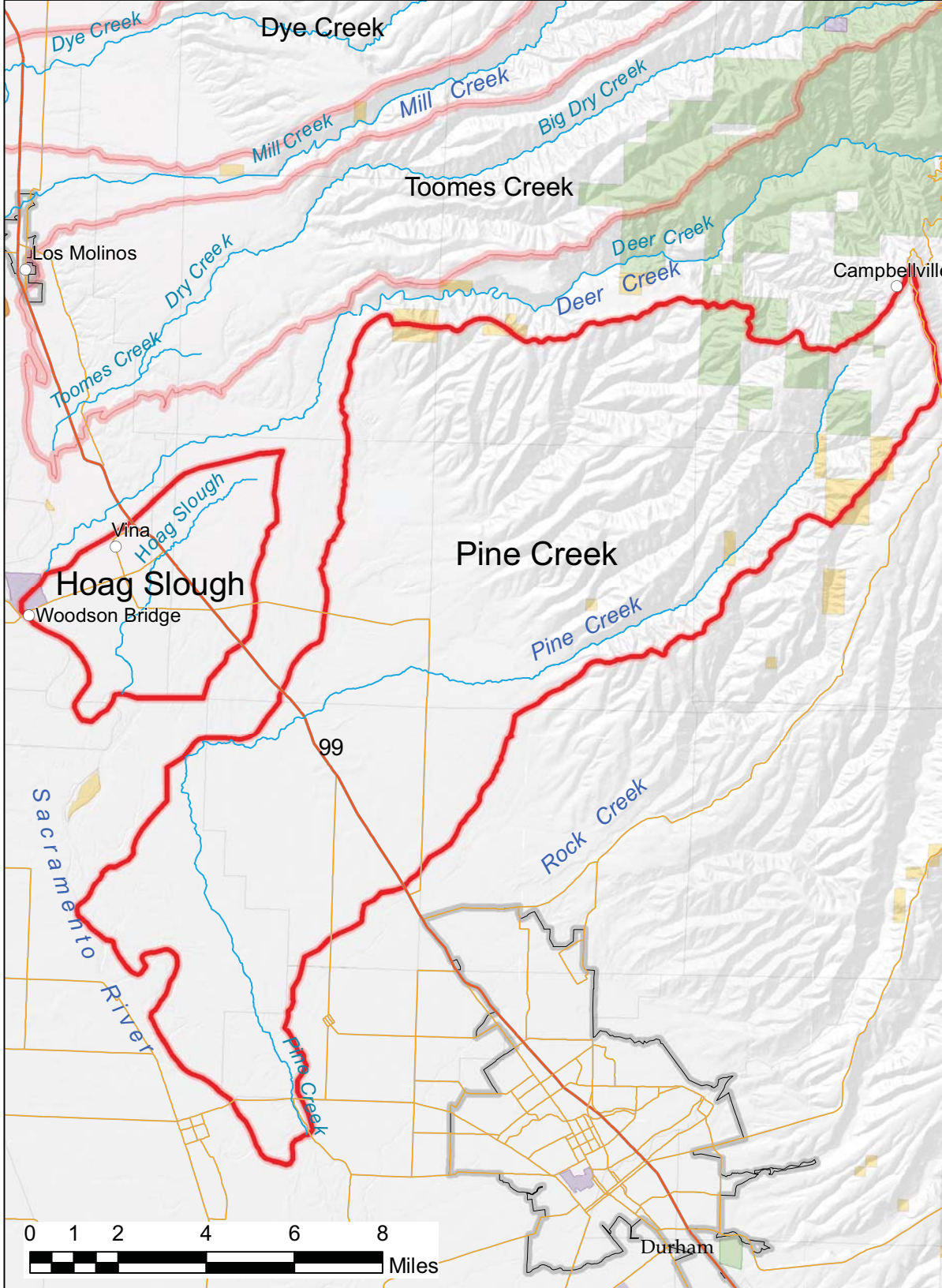
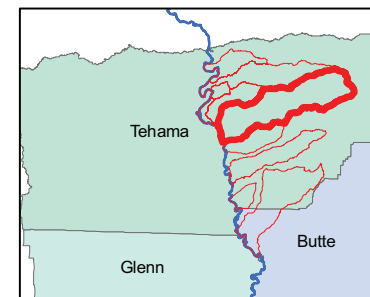
 Major Roads
& Highways

 Urban Areas

 Watershed Boundary

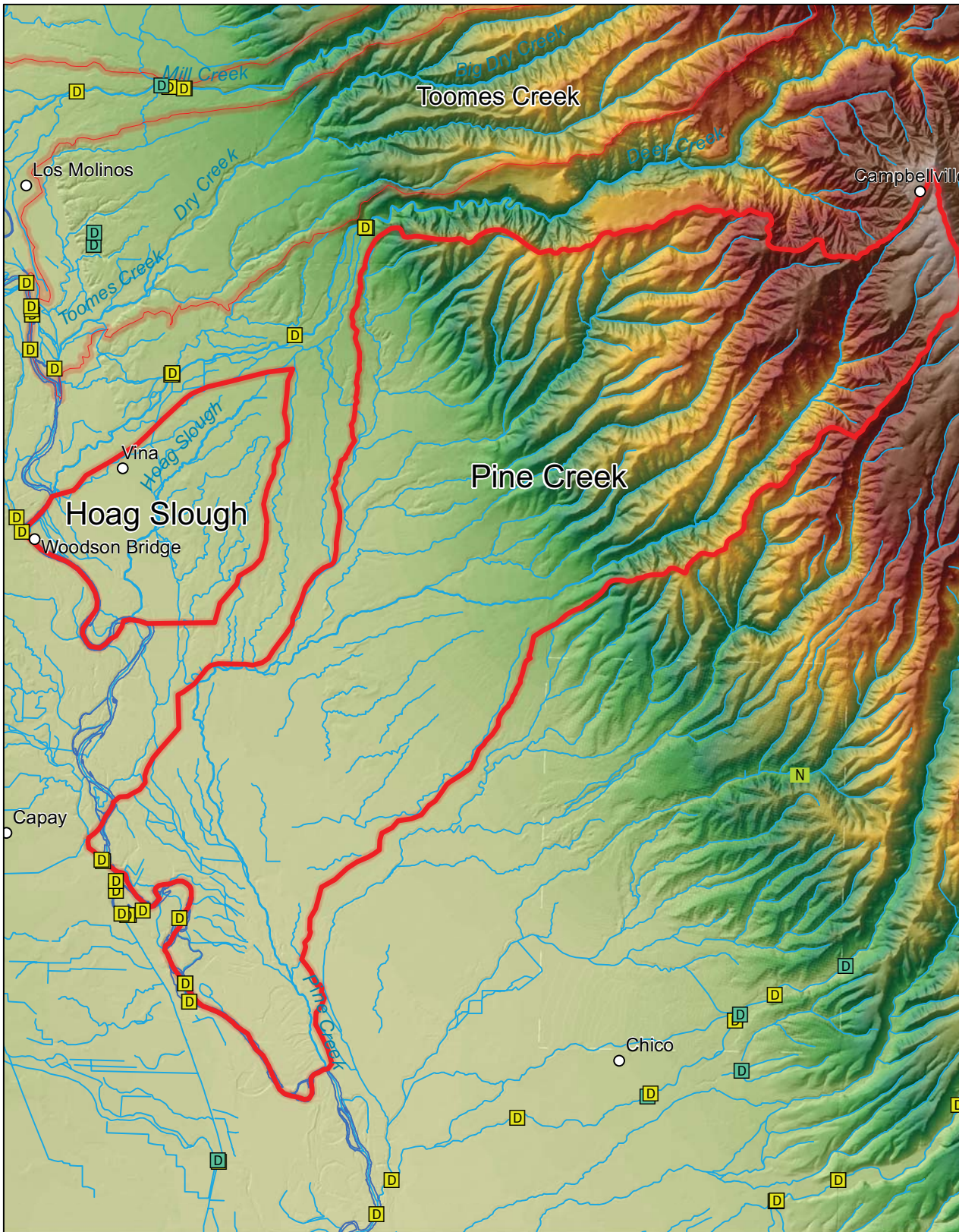


Tehama County Resource Conservation District (c) 2010








Tehama East Watershed Assessment

Passage Assessment Database
Hoag Slough and Pine Creek




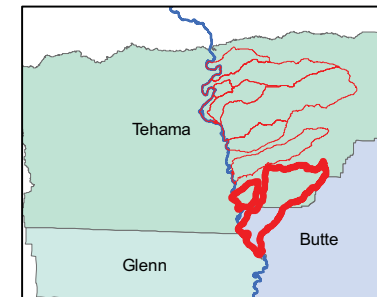
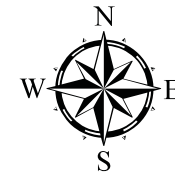
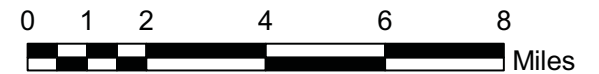
Legend

Site Type

-  Dam
-  Diversion
-  Fish trap
-  Non-structural
-  Road crossing

<http://www.calfish.org/DataampMaps/CalFishDataDownloads/tabid/93/Default.aspx>

 Watershed Boundary











Tehama County Resource
Conservation District
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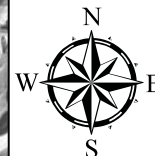
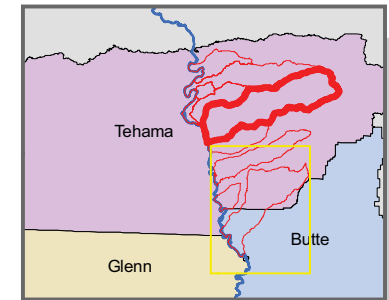


Tehama East Watershed Assessment

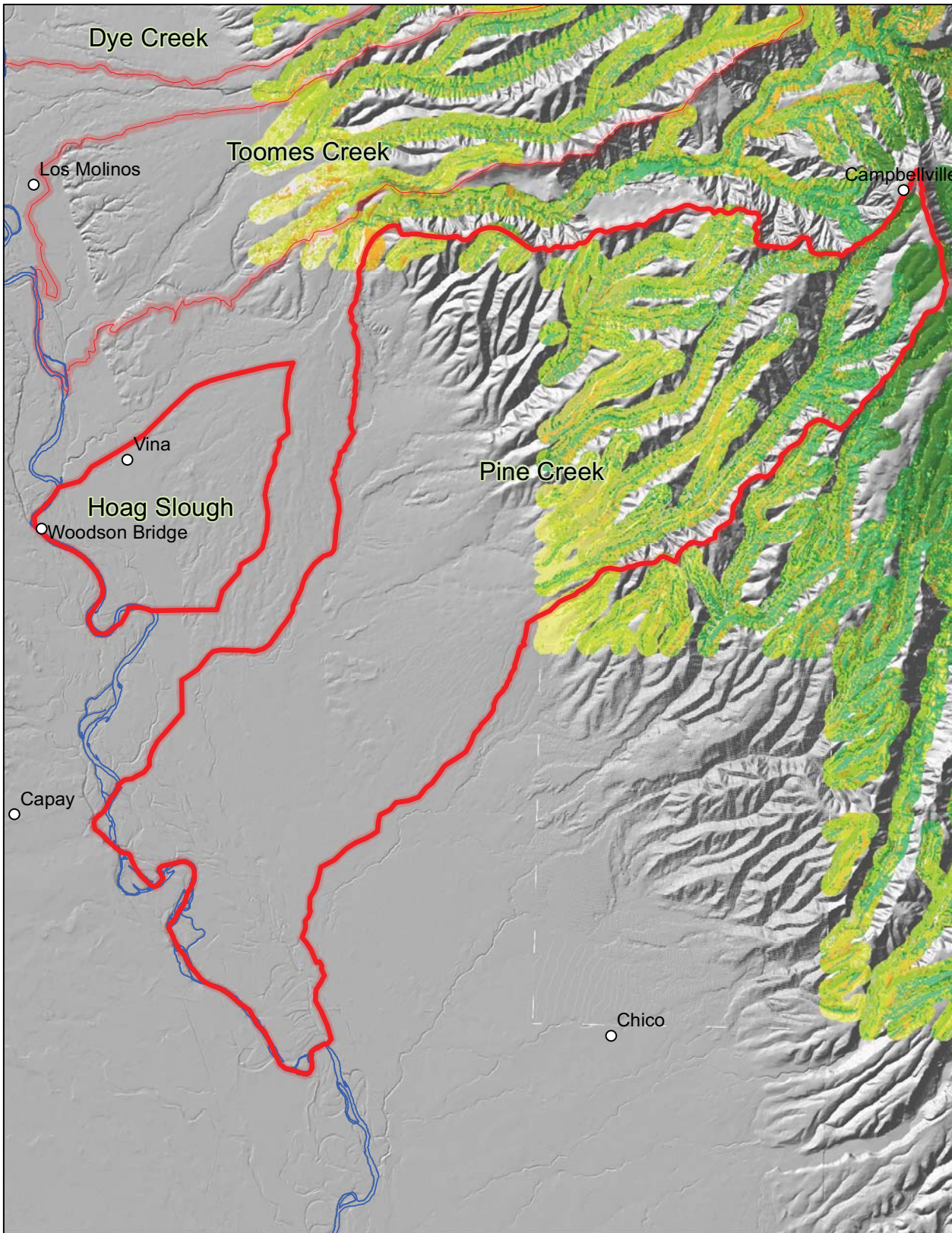
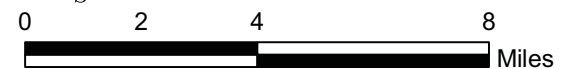
Riparian Vegetation in Hardwood Rangelands Antelope Creek

KEY

-  Riparian
-  Hardwood Range w/<70% Canopy
-  Shrub
-  Conifer
-  Herbaceous
-  Water
-  Other: Urban, Marsh, Rock, Barren
-  Watershed Boundary














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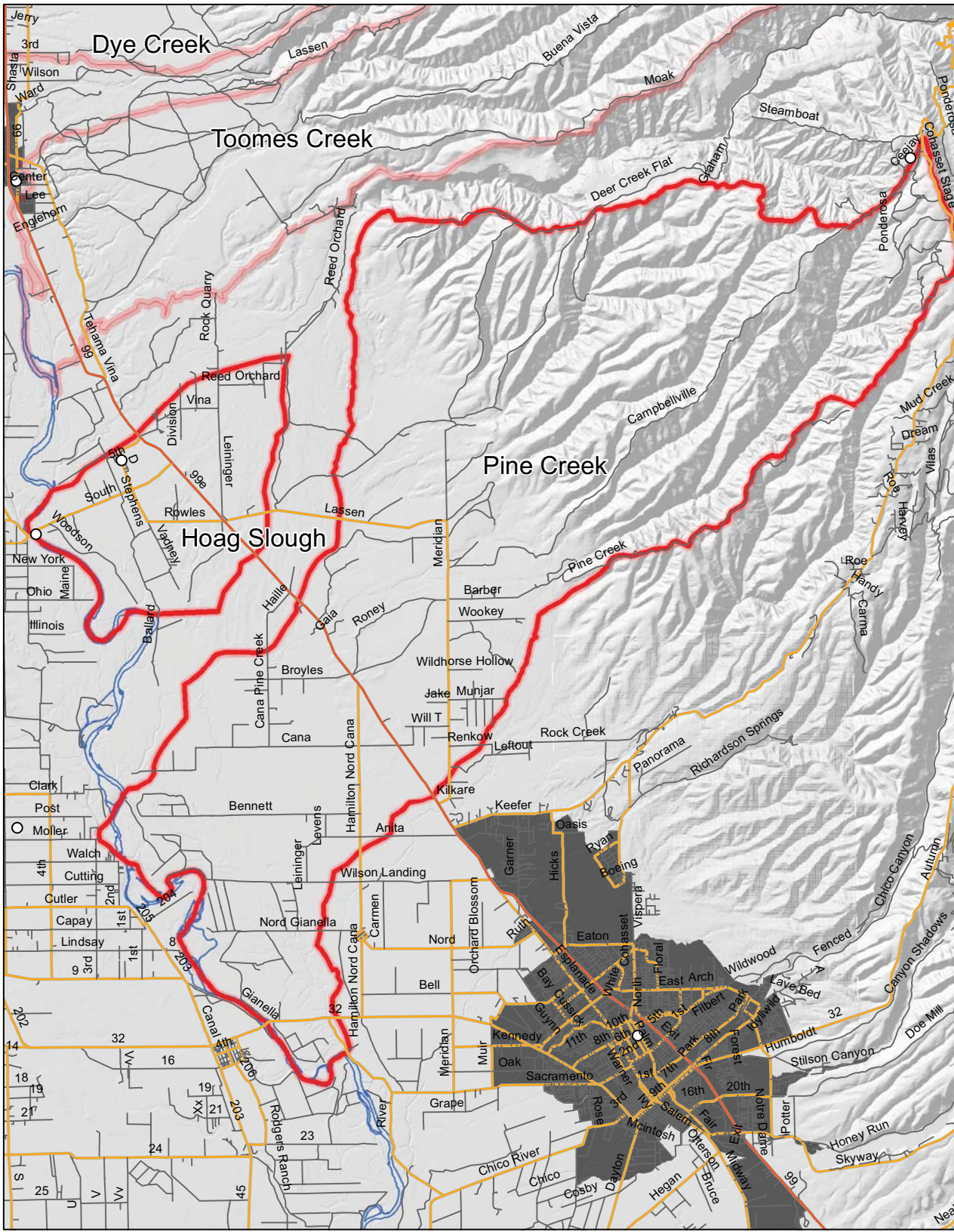


Tehama East Watershed Assessment

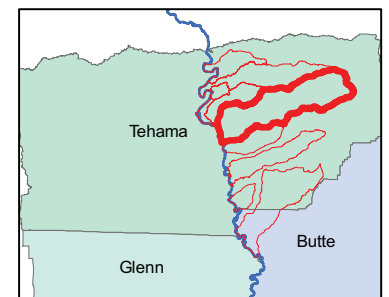
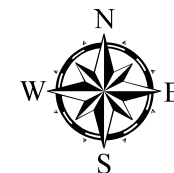
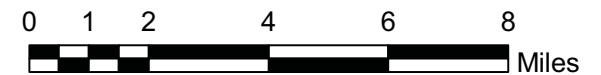
Roadways
Hoag Slough and Pine Creek

Legend

-  Limited Access
-  Highway
-  Major Road
-  Local Road
-  Minor Road
-  Other Road
-  Ramp
-  Ferry
-  Pedestrian Way
-  Urban Areas
-  Watershed Boundary



Tehama County Resource Conservation District
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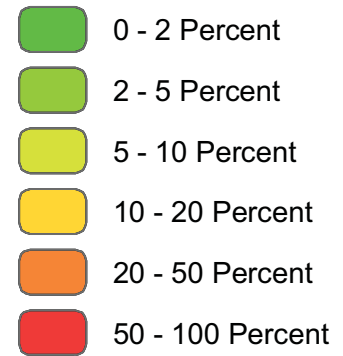


Tehama East Watershed Assessment

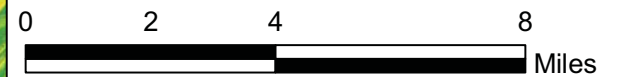
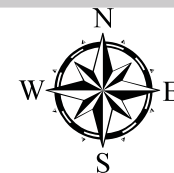
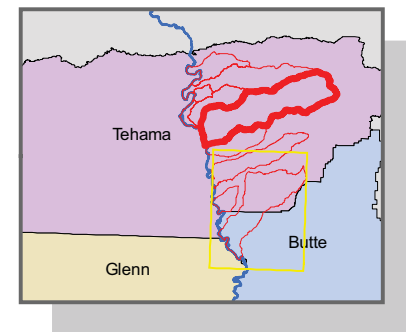
NRCS Soils Hydrologic Group
Antelope Creek

Legend

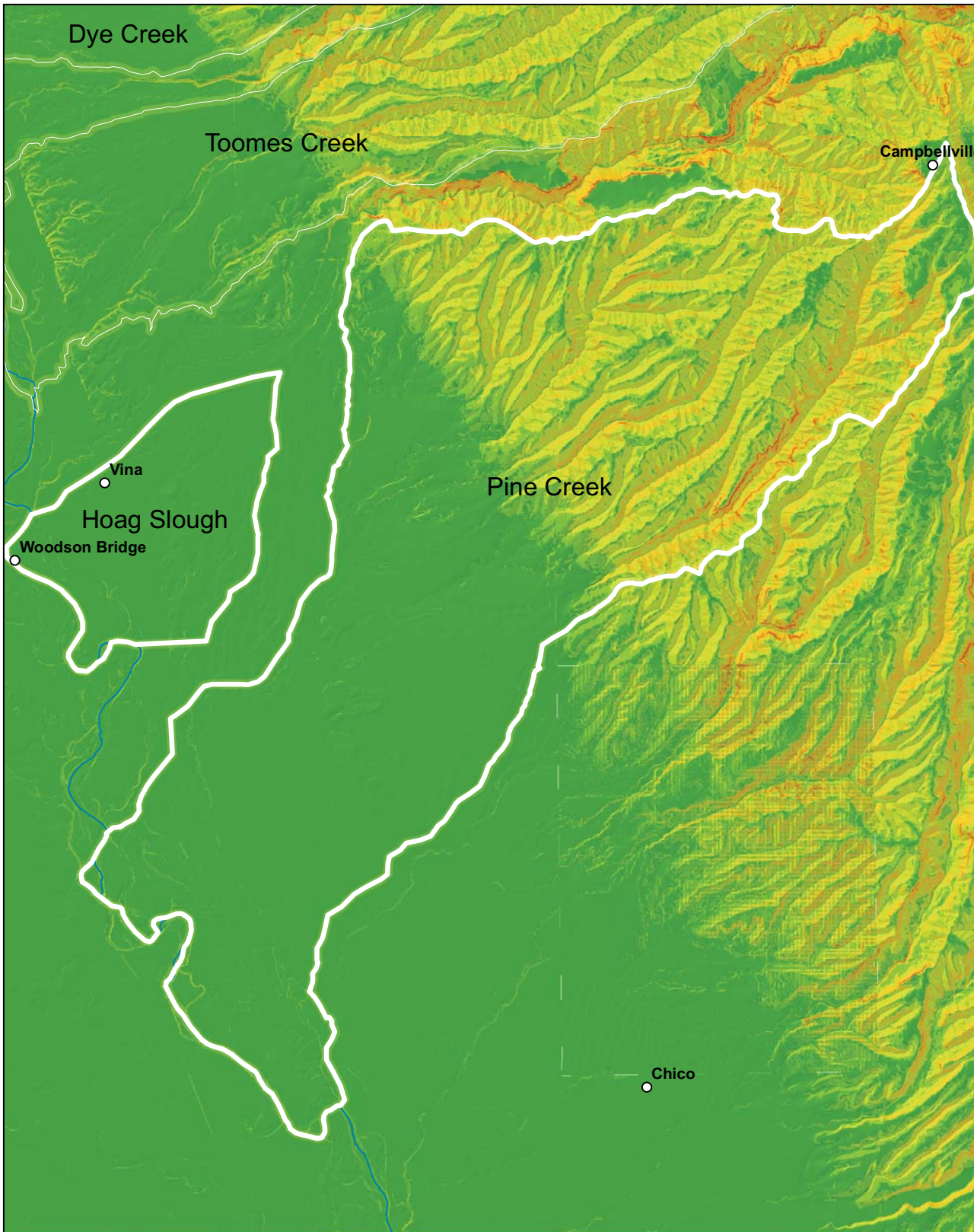
Percent Slope

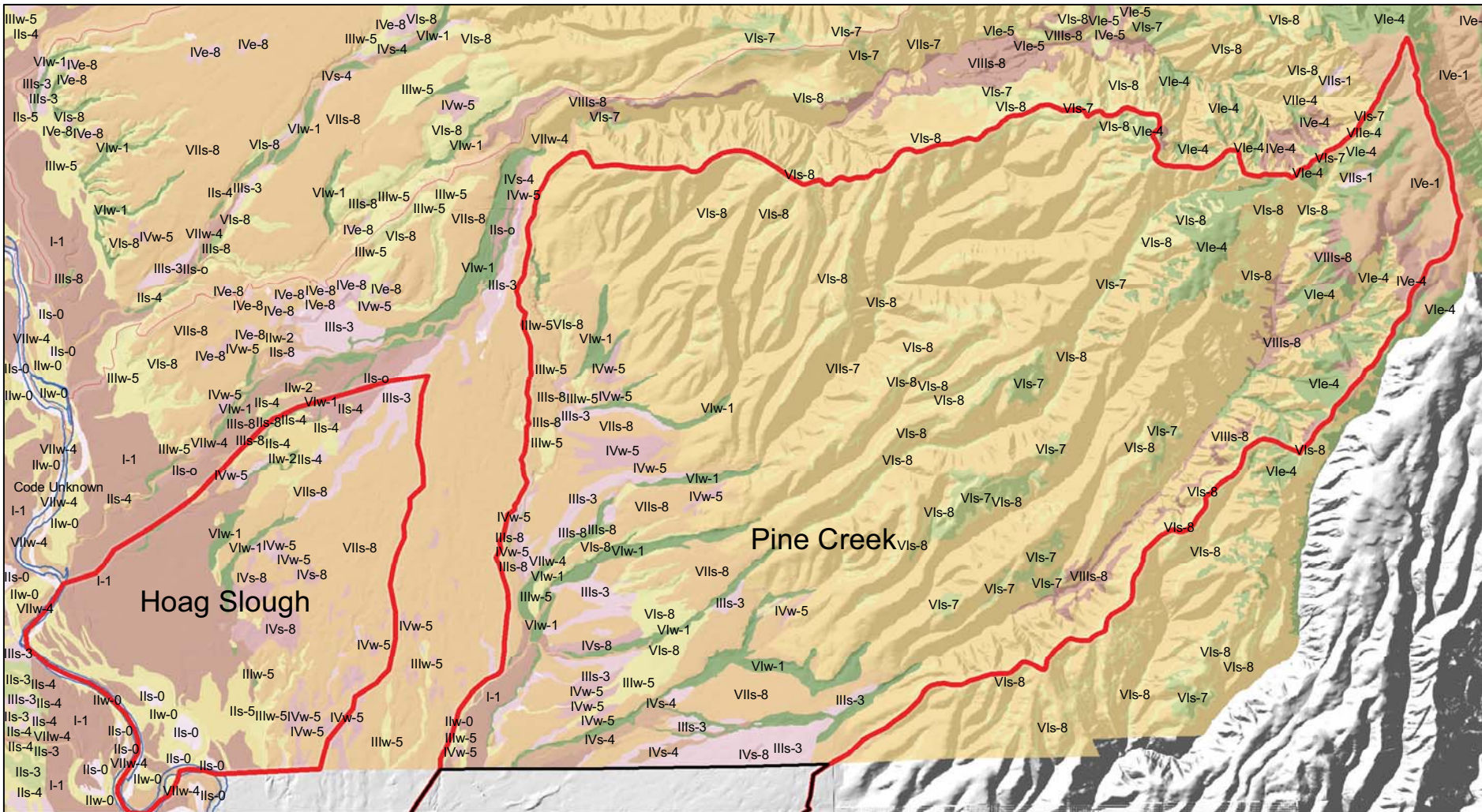


Watershed Boundary



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Conservation District
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Tehama East Watershed Assessment

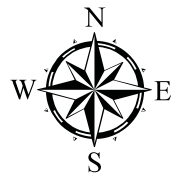
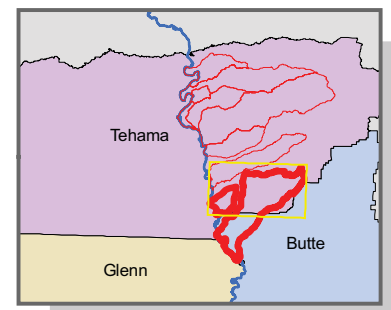
Land Capability Classification

Hoag Slough and Upper Pine Creek

KEY

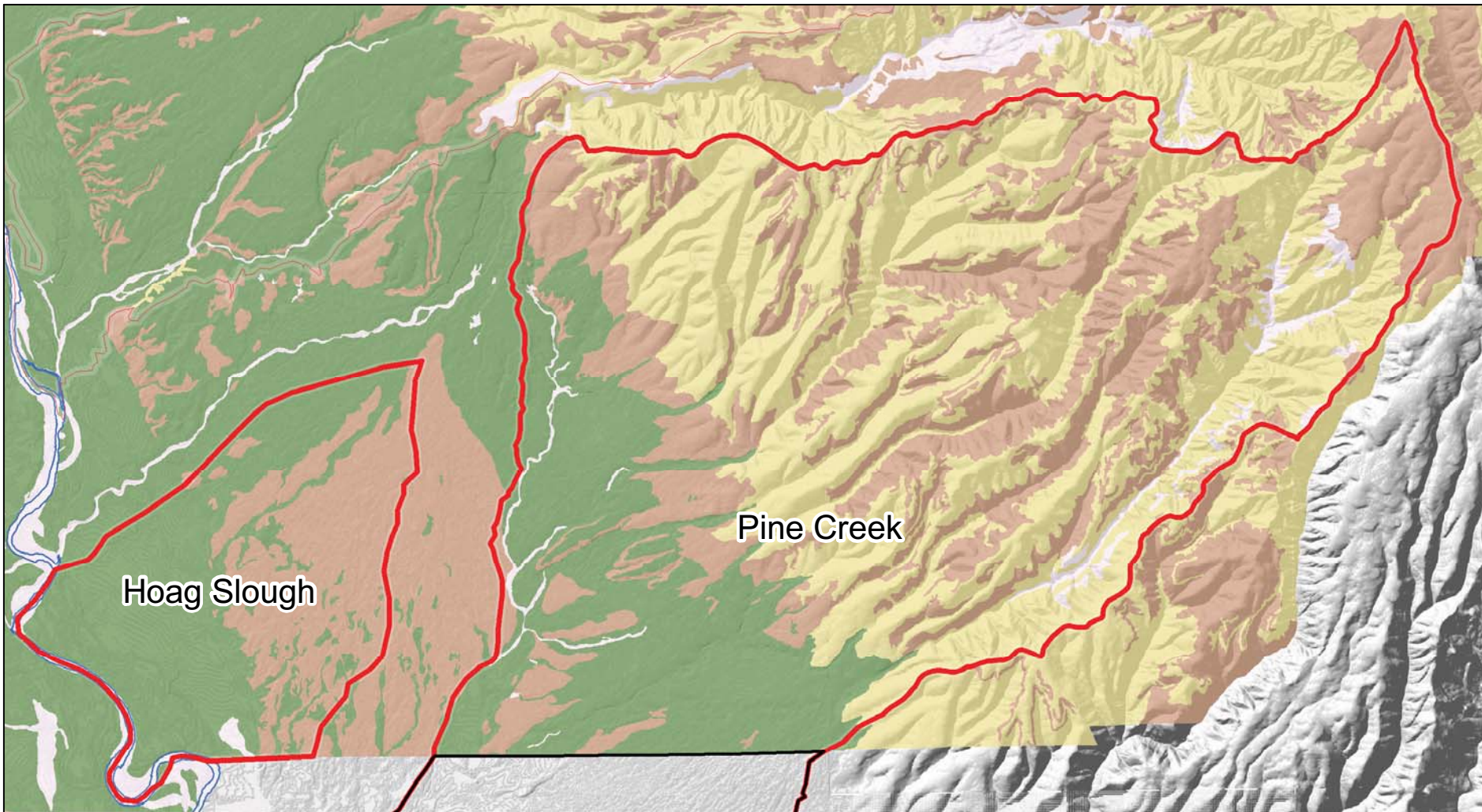
See Land Capabiity Classification Page

 Watershed Boundary



Tehama County Resource Conservation District
(c) 2010



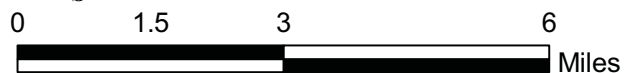


Tehama East Watershed Assessment

NRCS Soils Highly Erodible Soils
Hoag Slough and Upper Pine Creek



Tehama County Resource Conservation District
(c) 2010

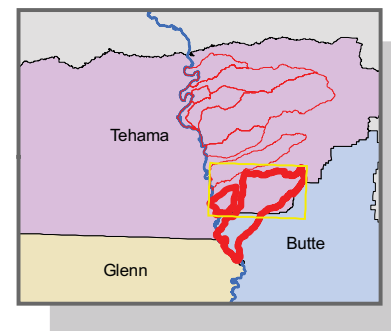


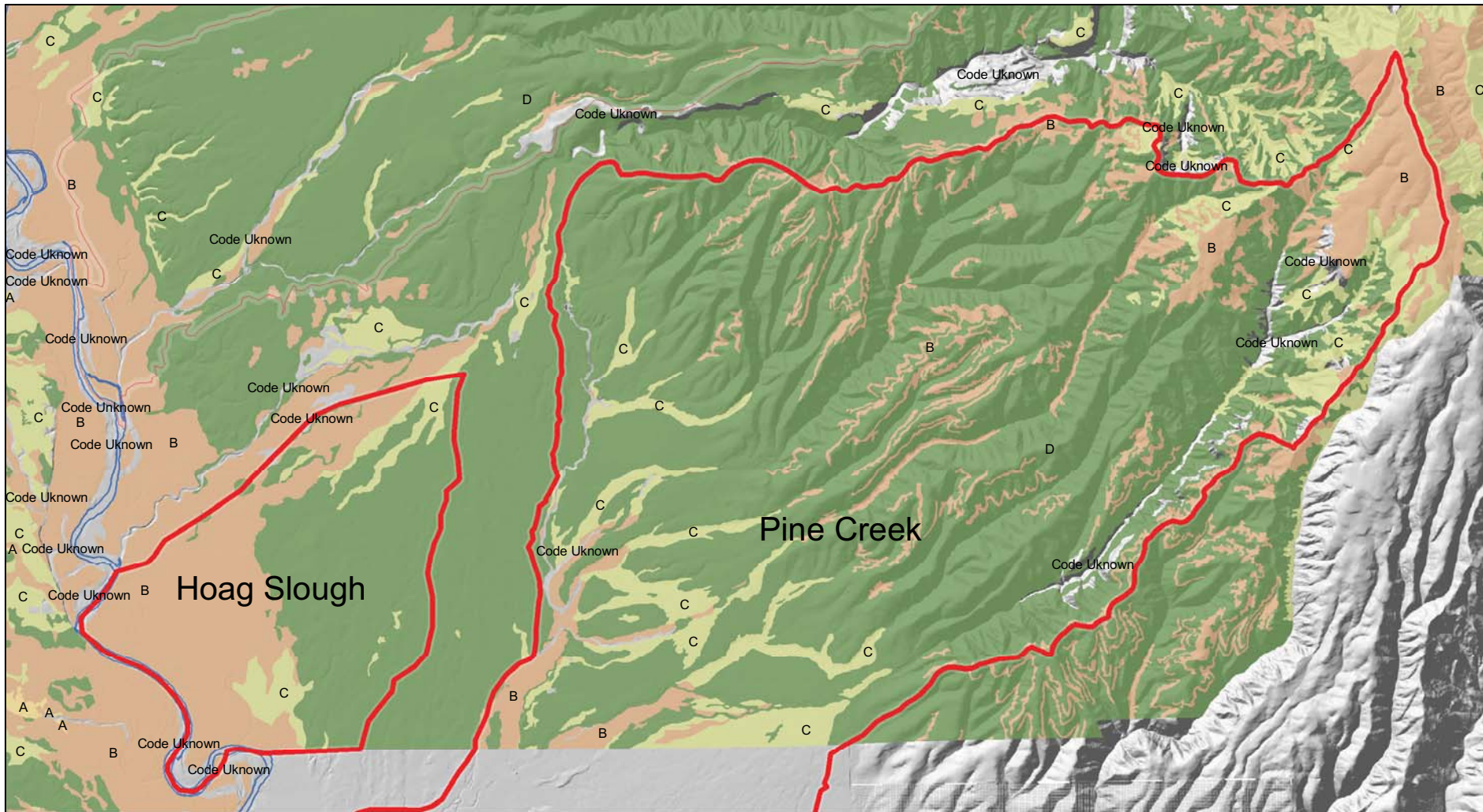
KEY

Highly Erodible Land Classification

- 1
- 2
- 3
- Code Unknown

Watershed Boundary



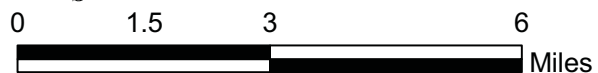


Tehama East Watershed Assessment

NRCS Soils Hydrologic Group
Hoag Slough and
Upper Pine Creek



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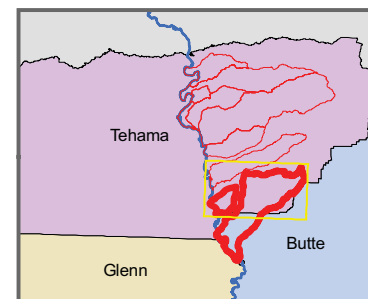
KEY

Hydrologic Group



Code Unknown

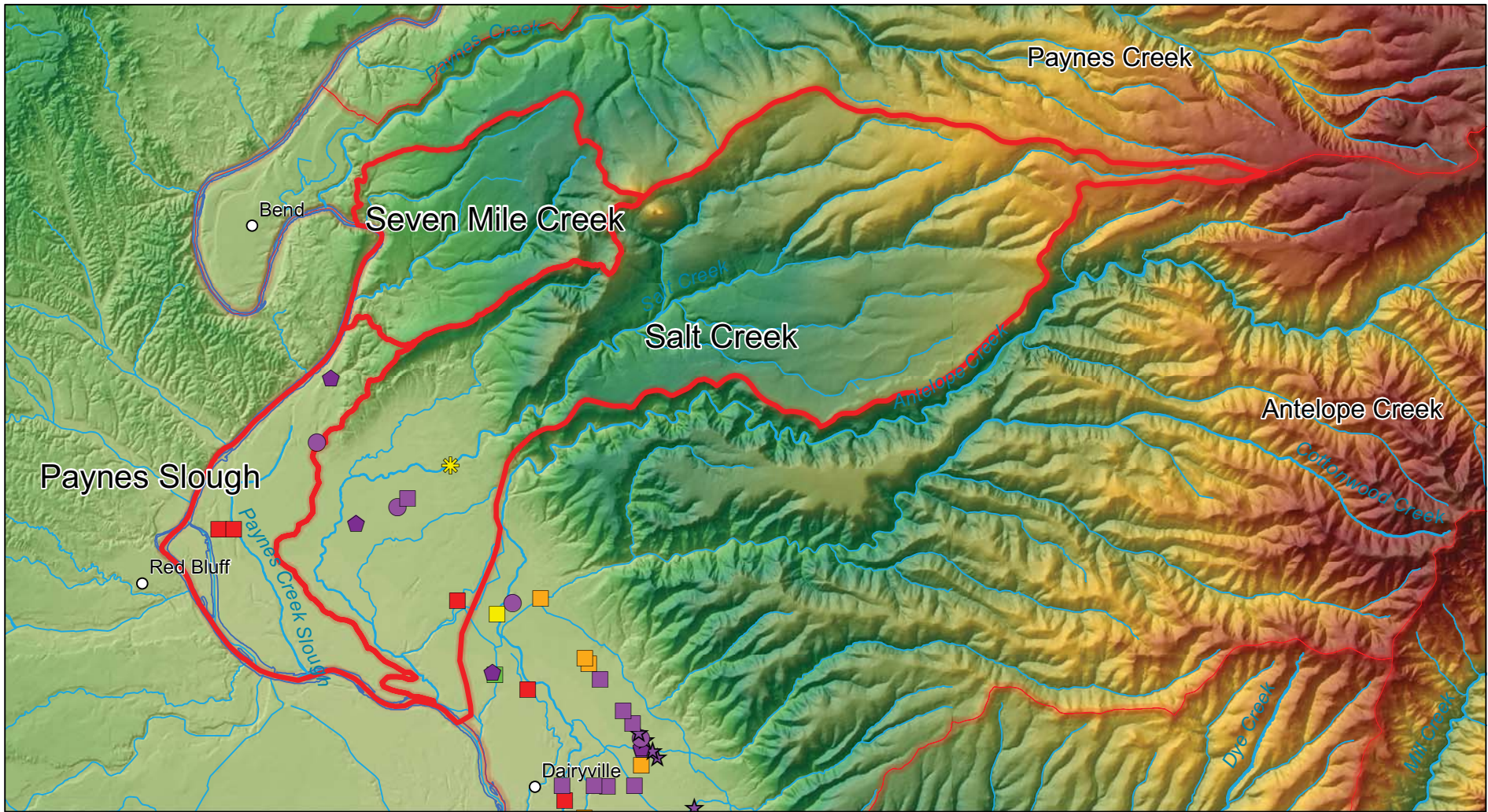
Watershed Boundary



Maps by Watersheds

Paynes Slough, Salt, and Seven Mile Creek Watersheds

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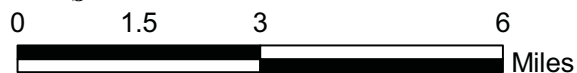


Tehama East Watershed Assessment

Bridges, Culverts, Pipes,
and Slabs
Paynes Slough,
Salt, and Seven Mile Creeks



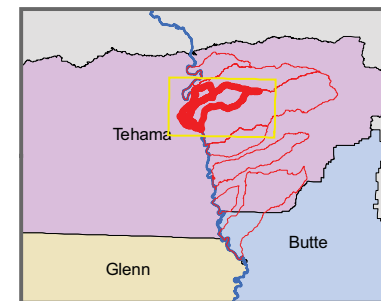
Tehama County Resource Conservation District
(c) 2010

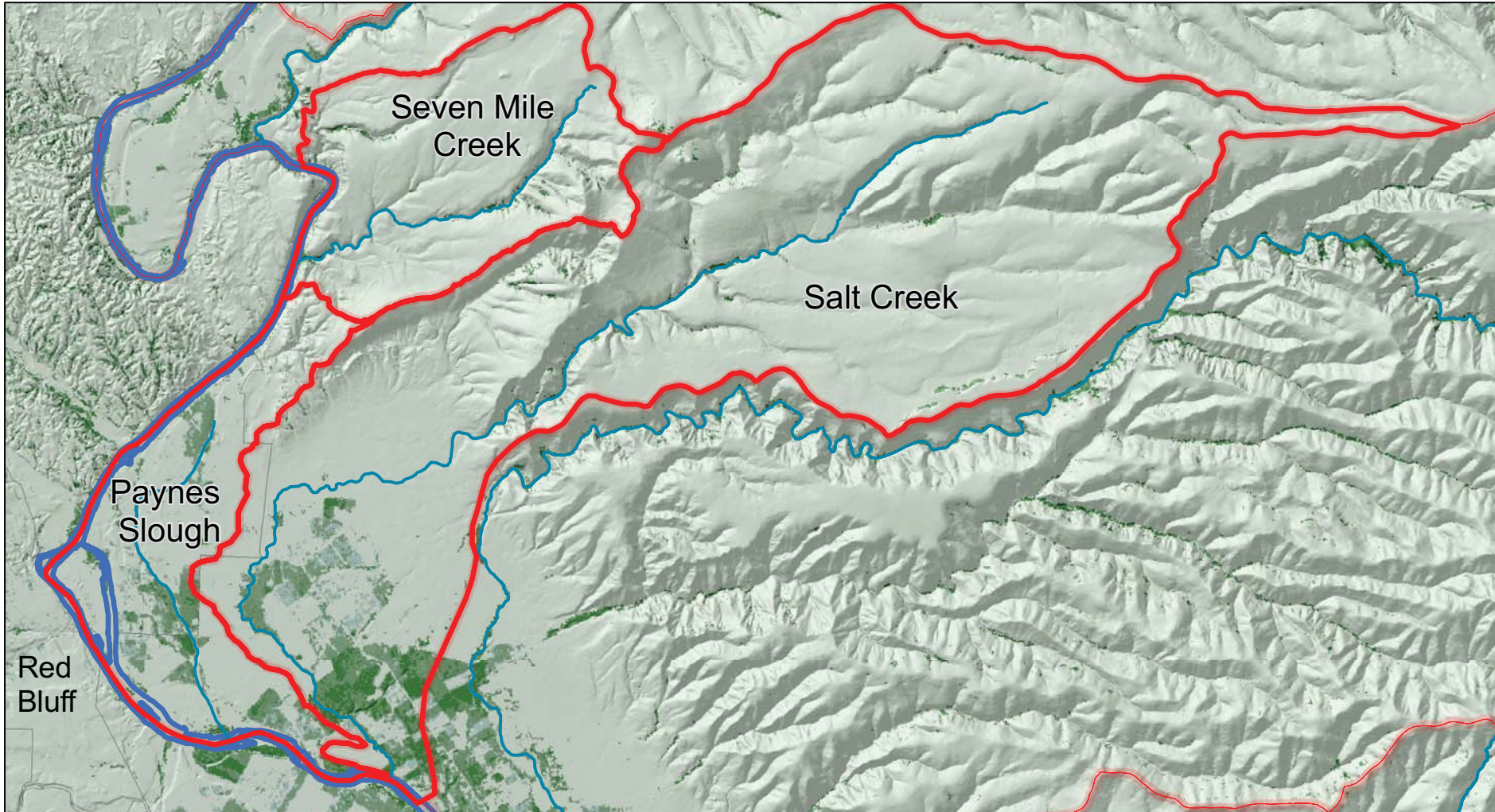


KEY

- | | |
|----------------------------|----------------------------|
| ■ Bridge-Abandoned | ● Culvert-Green |
| ■ Bridge-Green | ◀ Culvert-Orange/Green |
| ■ Bridge-Orange | ● Culvert-Purple |
| ■ Bridge-Purple | ● Culvert-Yellow |
| ▶ Bridge-Purple/Green | ○ Pipe-Purple (Non County) |
| ▶ Bridge-Purple/Orange | ● Pipe-Abandoned |
| ■ Bridge-Red | ● Pipe-Purple |
| ■ Bridge-Yellow | ★ Slab-Abandoned |
| ★ Bridge-Yellow (One Lane) | ★ Slab-Purple |

Watershed Boundary





Tehama East Watershed Assessment

CANOPY COVER
 Seven Mile Creek
 Paynes Slough
 Salt Creek



Tehama County Resource Conservation District

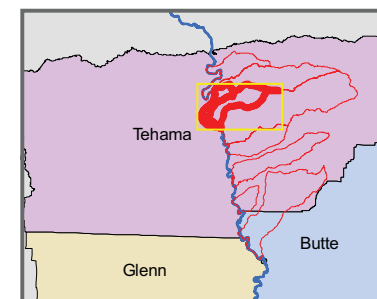
(c) 2010

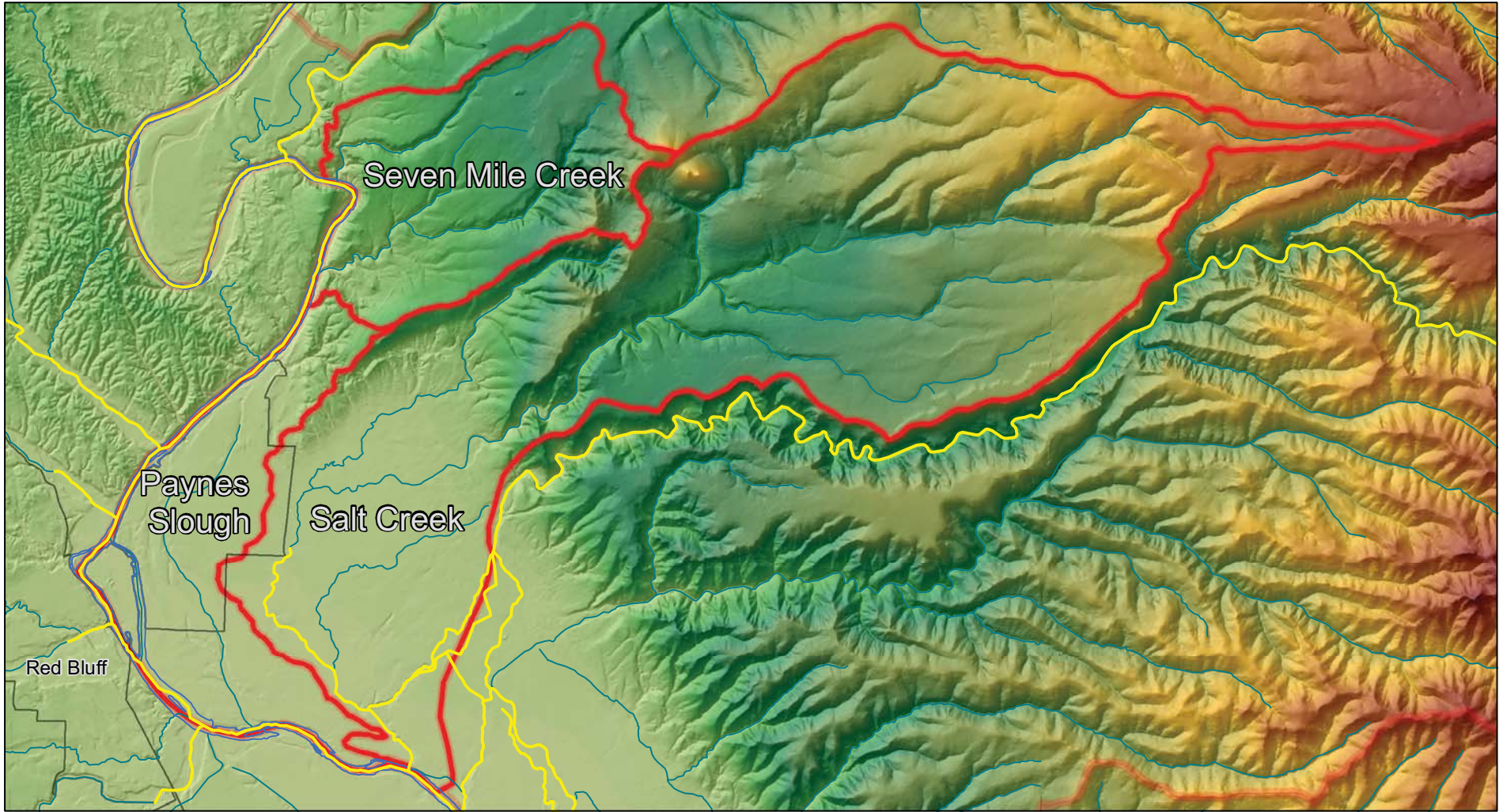
KEY

Canopy Cover Percent

- 0 - 15%
- 15 - 41%
- 41 - 60%
- 60 - 76%
- 76 - 100%

- Urban Areas
- Streams/Rivers
- Watershed Boundary




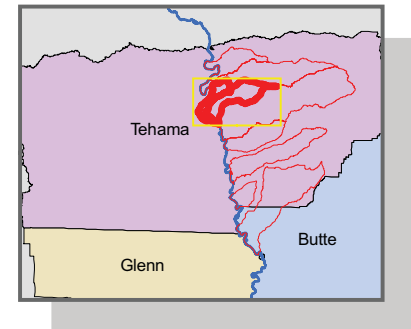


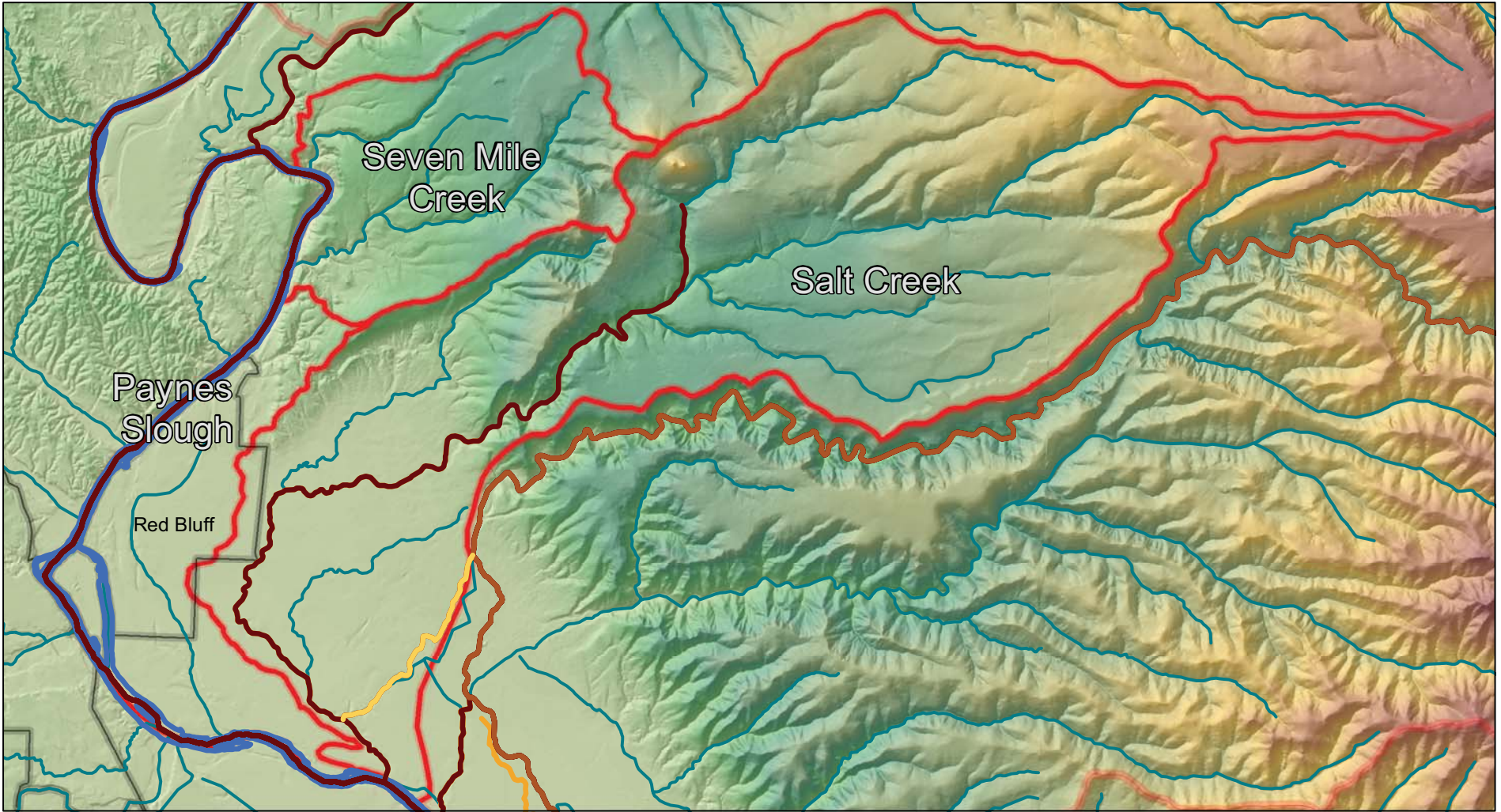
Tehama East Watershed Assessment

Critical Habitat - Spring-Run Chinook
 Paynes Slough
 Salt Creek
 Seven Mile Creek

KEY

-  Critical Habitat - Spring-Run Chinook
-  Springs/Rivers
-  Urban Areas
-  Watershed Boundary



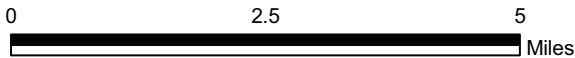


Tehama East Watershed Assessment

Chinook Surveys By Year
 Seven Mile Creek, Paynes Slough,
 and Salt Creek



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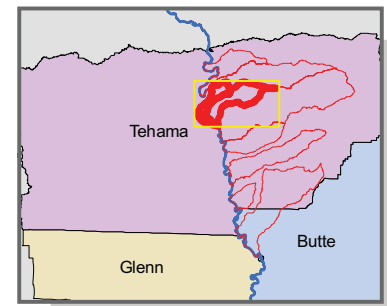


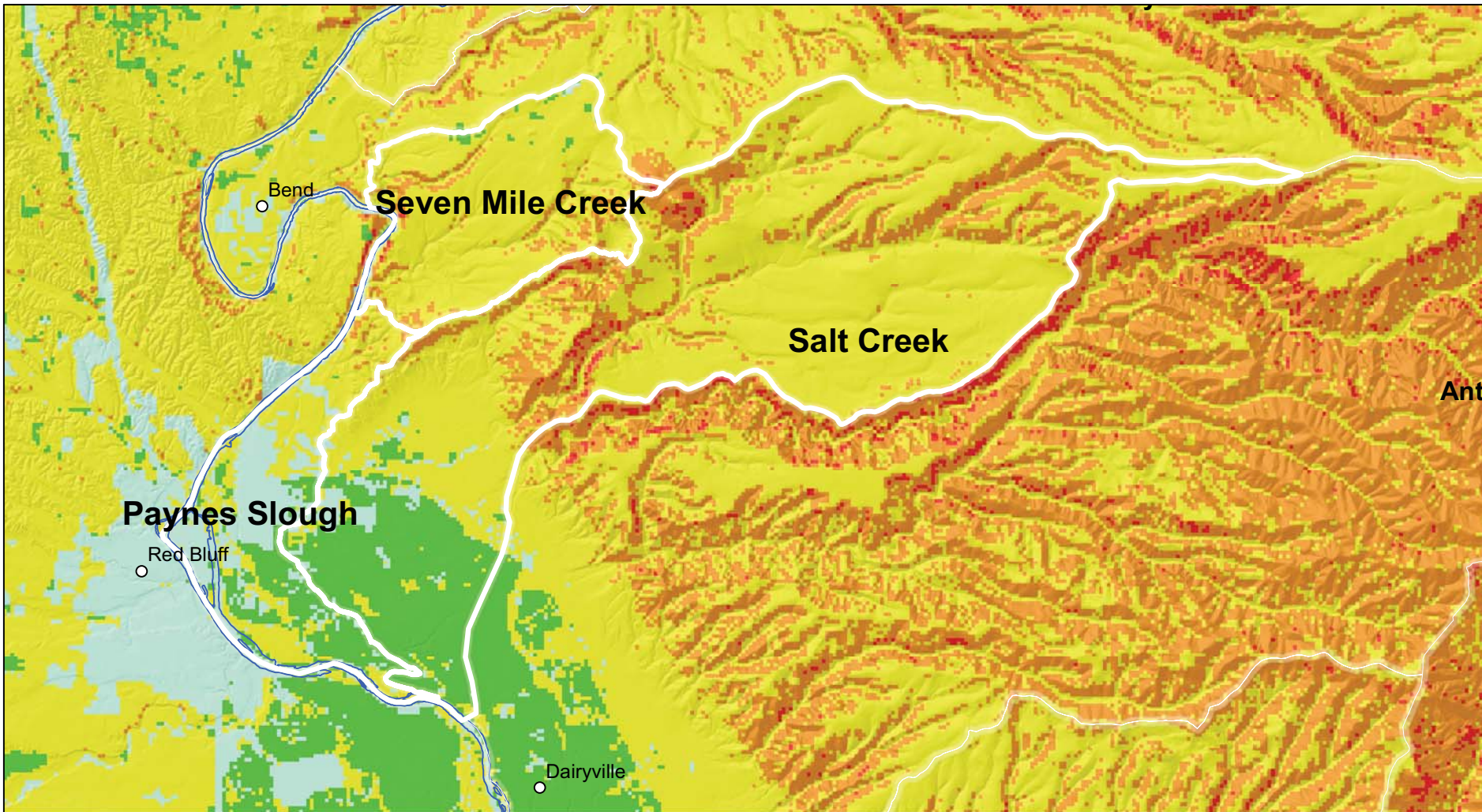
KEY

- Streams/Rivers
- Urban Areas
- Watershed Boundary

Year of Survey

- 1959 - 1970
- 1971 - 1986
- 1987 - 1993
- 1994 - 1998
- 1999 - 2003



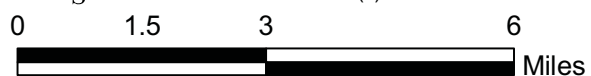


Tehama East Watershed Assessment

Post-fire Erosion Potential
Paynes Slough,
Salt, and Seven Mile Creeks








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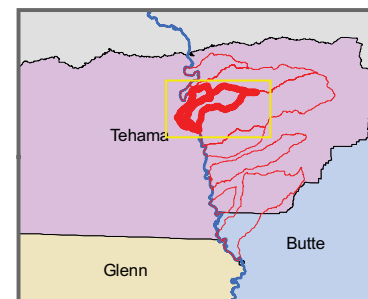
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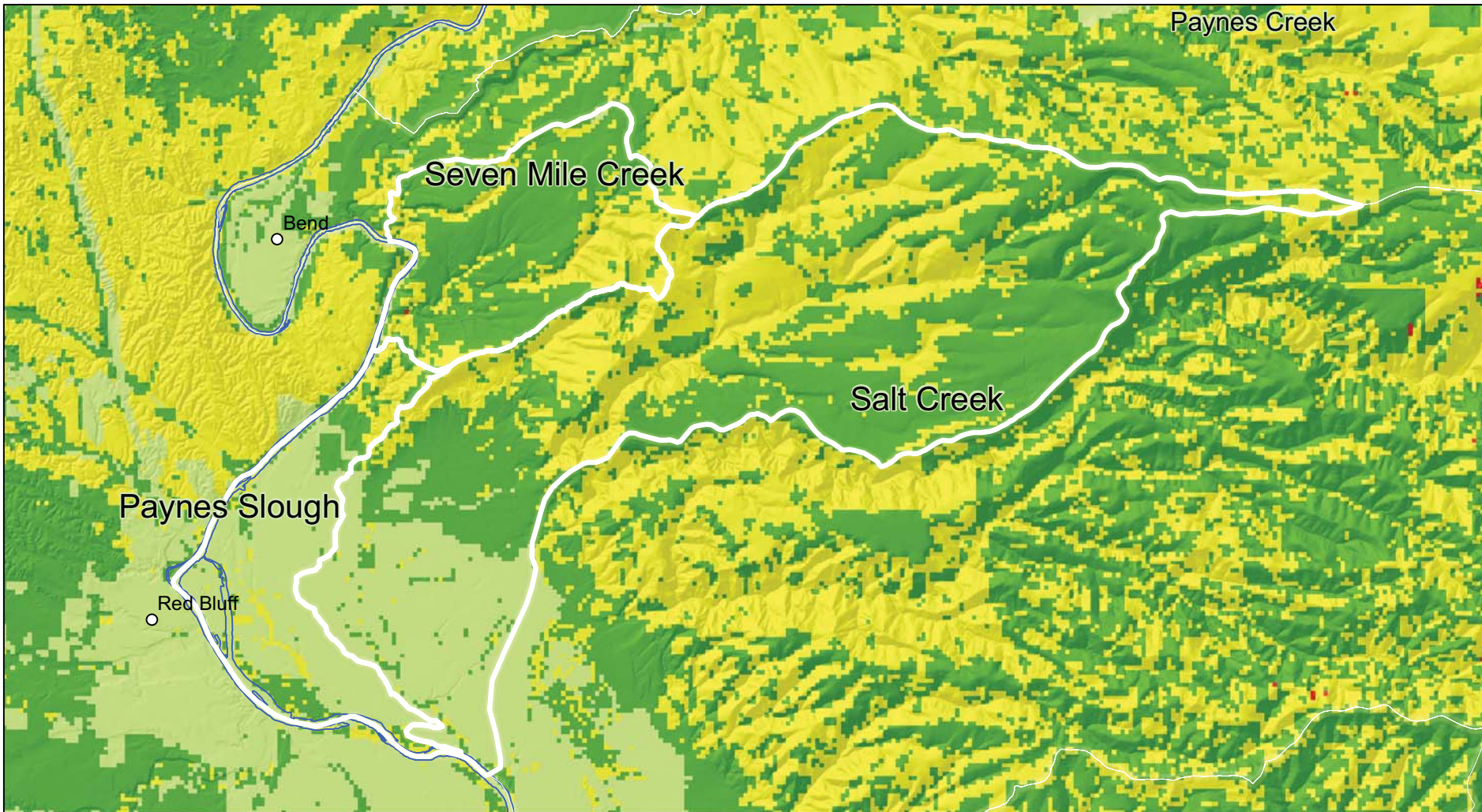
Erosion Classification

-  -1 : Areas without a Fuel Rank (generally Ag or Barren)
-  0 : Water and Urban areas outside scope of analysis
-  1 : Low
-  2 : Moderate
-  3 : High

<http://frap.cdf.ca.gov/data/frapgisdata/download.asp?spatialdist=1&rec=perod>

 Watershed Boundary



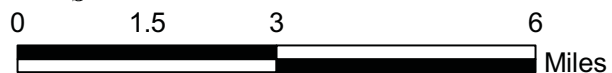


Tehama East Watershed Assessment

Fire Regime and Condition Class
 Condition Class
 Paynes Slough, Salt,
 and Seven Mile Creeks



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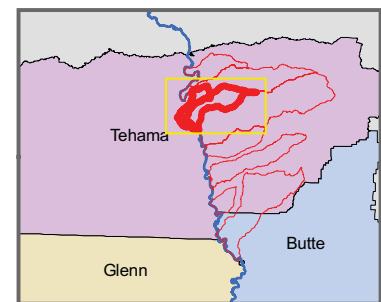


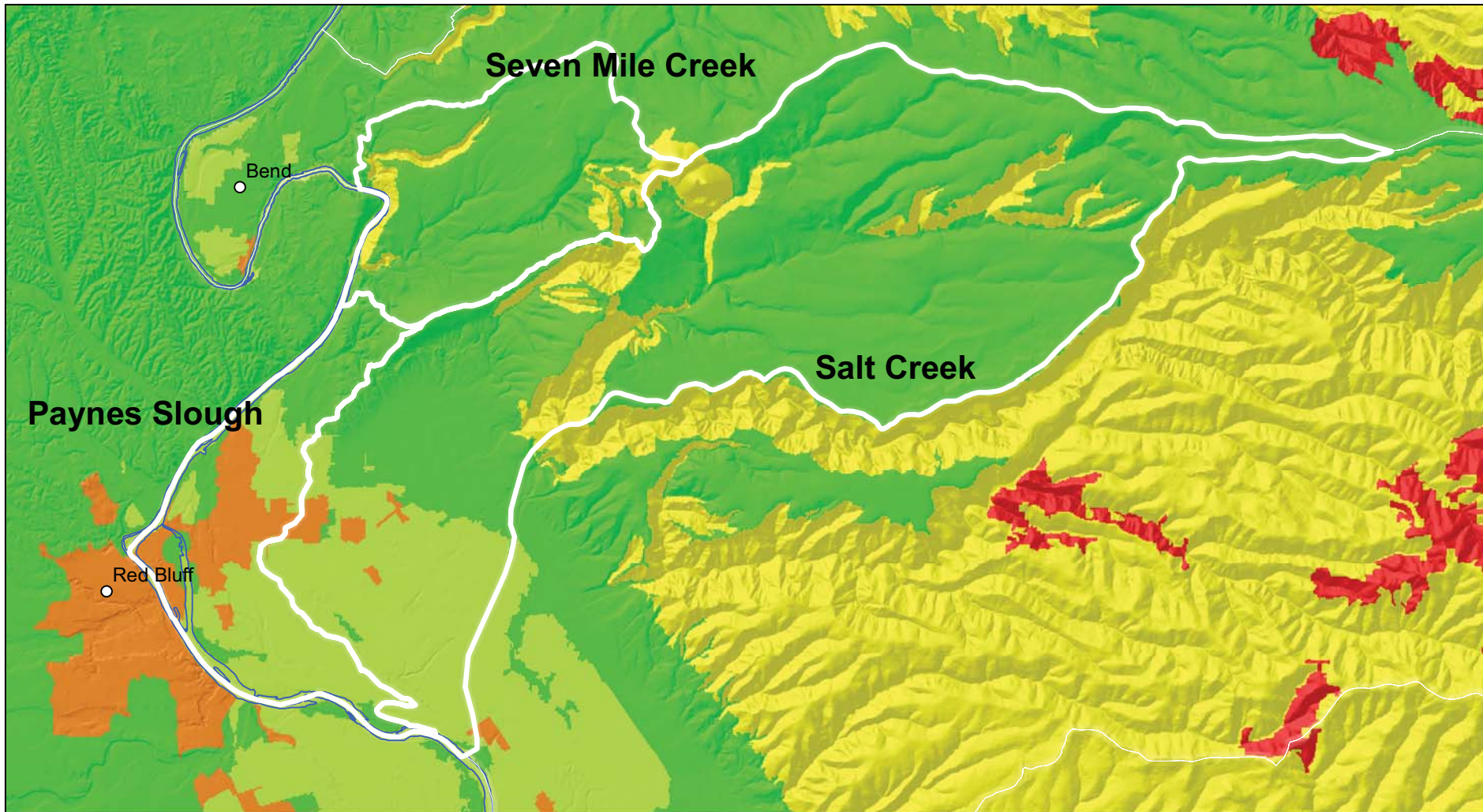
KEY

- Condition Class
- 1
 - 2
 - 3
 - 9 - None Assigned

<http://frap.cdf.ca.gov/data/frapgisdata/download.asp?spatialdist=1&rec=cafrcc>

Watershed Boundary



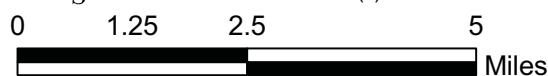


Tehama East Watershed Assessment

Fire Hazard Severity Zoning
2007 DRAFT - FRAP
Paynes Slough,
Salt, and Seven Mile Creeks



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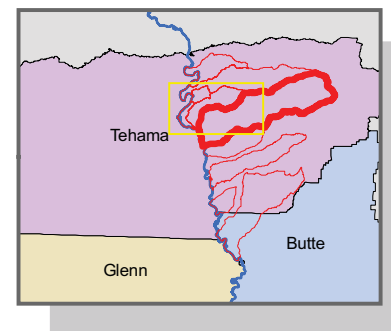


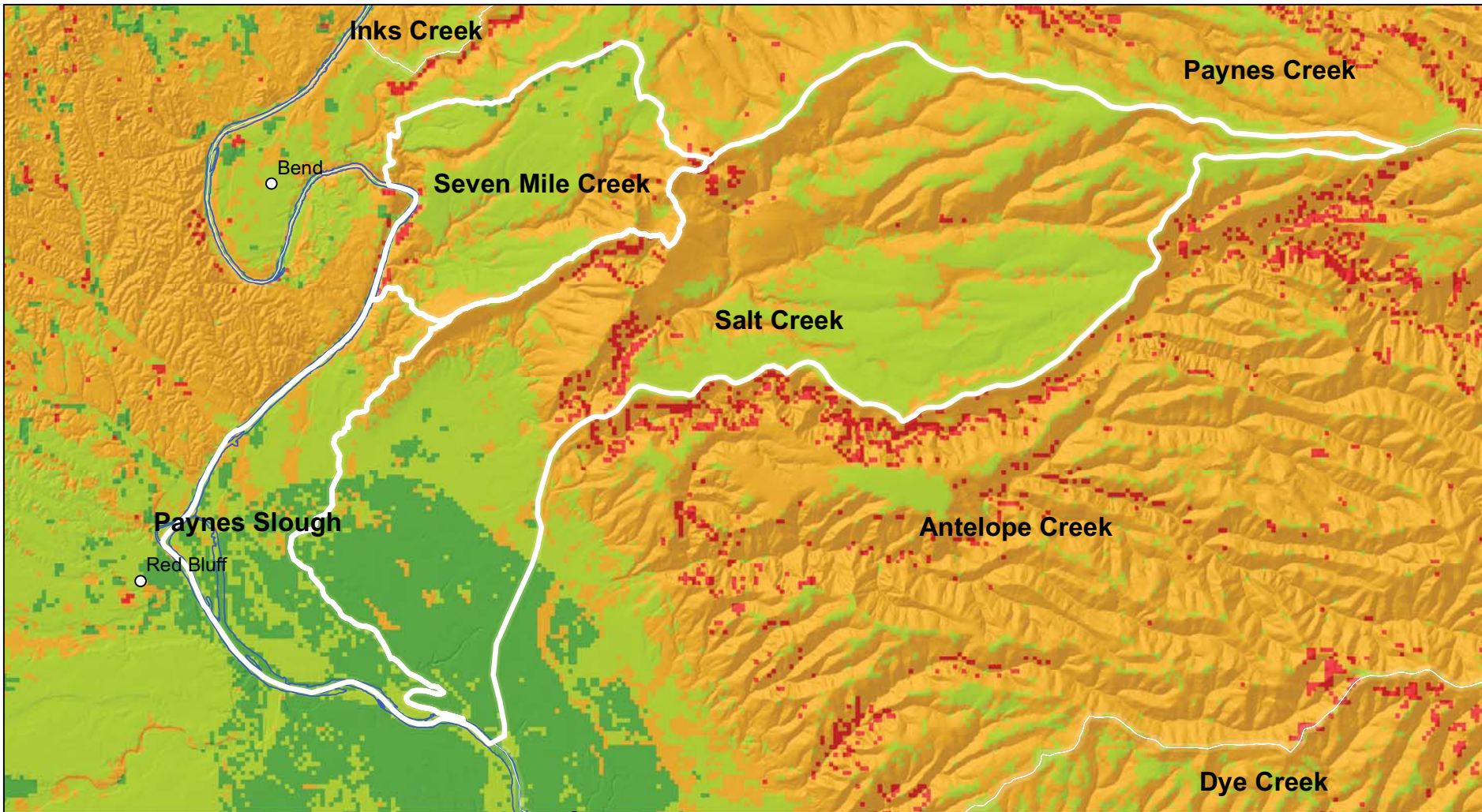
KEY

Hazard Class

- Moderate
- High
- Very High
- Non-Wildland/Non-Urban
- Urban Unzoned

Watershed Boundary



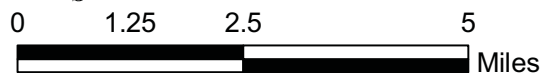


Tehama East Watershed Assessment

Fire Regime and Condition Class
 Fuel Ranking
 Paynes Slough,
 Salt, and Seven Mile Creeks



Tehama County Resource Conservation District
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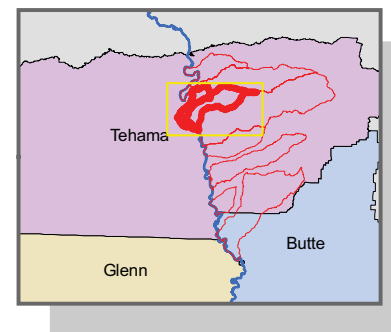
KEY

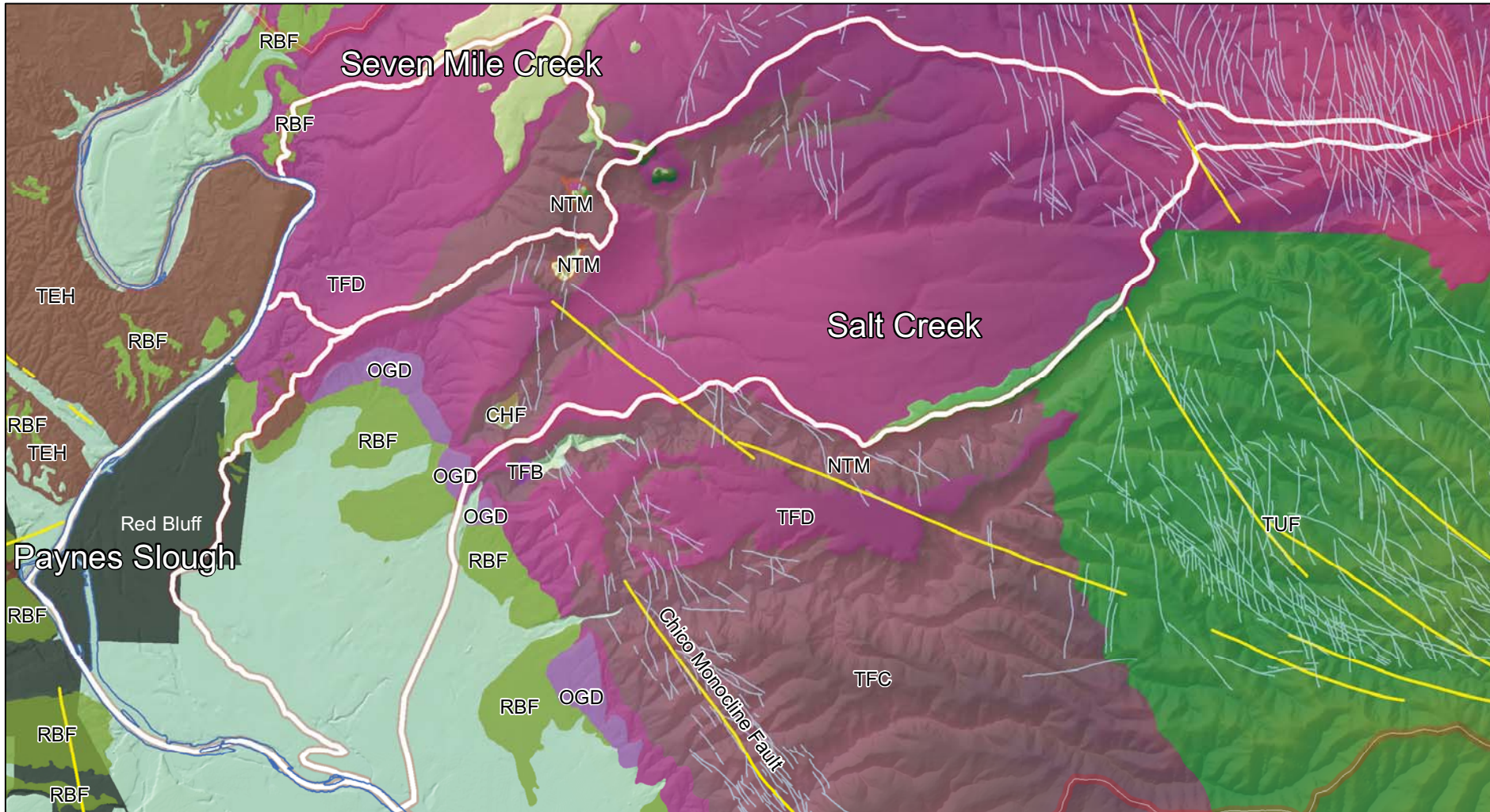
Fuel Ranking

- 1 - Little or No Hazard
- 1 - Moderate Hazard
- 2 - High Hazard
- 3 - Very High Hazard

<http://frap.cdf.ca.gov/data/frapgisdata/download.asp?spatialdist=1&rec=cafrcc>

Watershed Boundary





Tehama East Watershed Assessment

Legend

Selected Geology

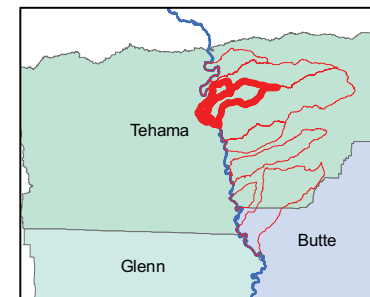
- | | |
|---|--|
| CHF Chico Formation | TAI Tailings |
| CBB Cinder Cone Deposits, Black Butte | TEH Tehama Formation |
| CDB Cinder Cone Deposits, Digger Butte | TUF Tuscan Formation |
| CIH Cinder Cone Deposits, Inskipp Hill | TFU Tuscan Formation, Undifferentiated Unit A & B |
| LAN Landslides | TFA Unit A, Tuscan Formation |
| LOB Lovejoy Basalt | TFB Unit B, Tuscan Formation |
| NTM Nomlaki Tuff Member | TFC Unit C, Tuscan Formation |
| OGD Older Gravel Deposits | TFD Unit D, Tuscan Formation |
| RBF Red Bluff Formation | |

Selected Geological Formations, Fault Lines and Monoclines Paynes Slough, Salt and Seven Mile Creeks

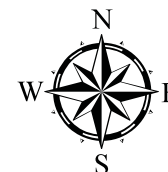
- Chico Monocline Lineaments
- Fault Lines

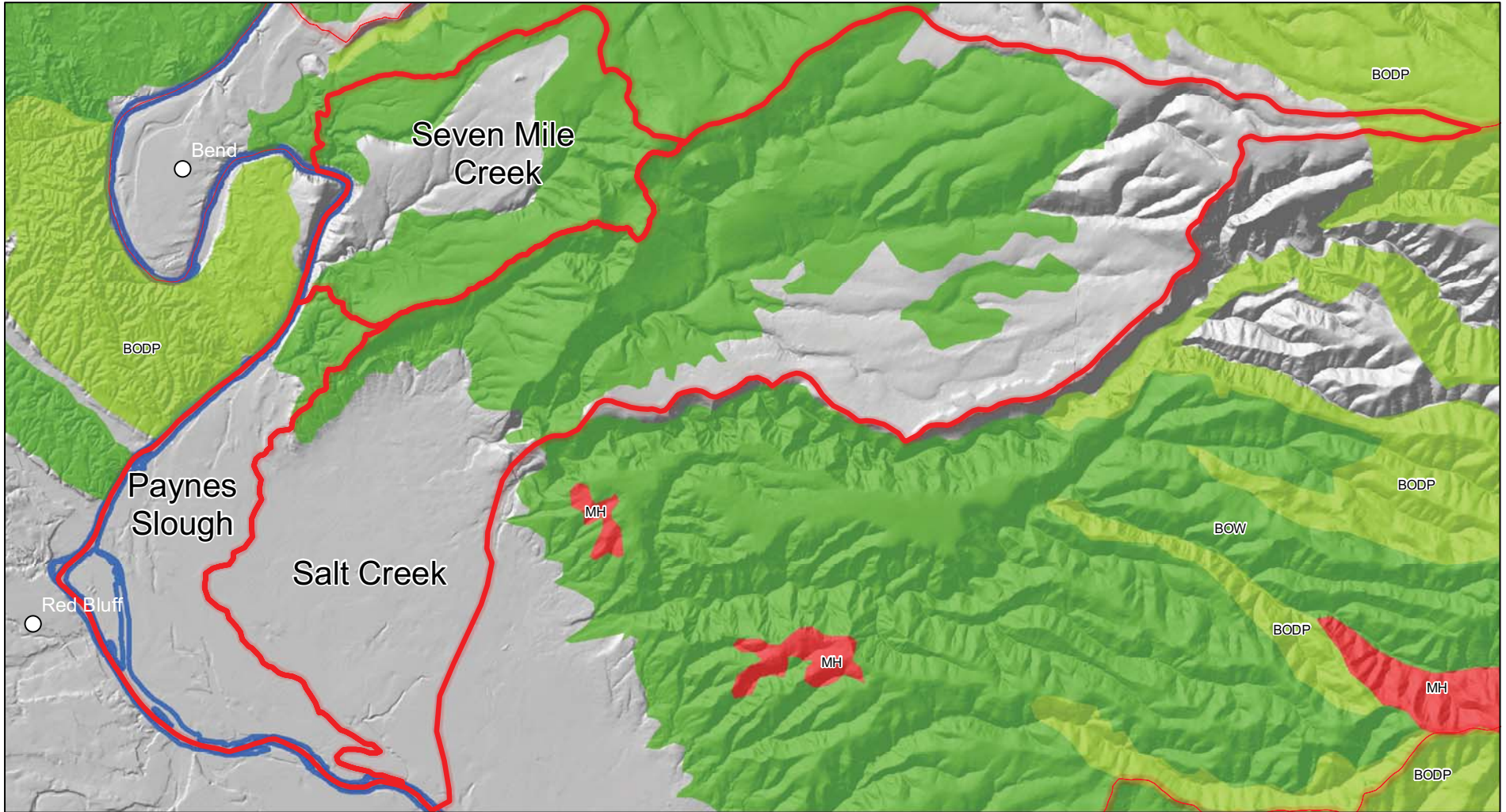
<http://projects.atlas.ca.gov/projects/sacvalleygeol>

- Urban Areas
- Watershed Boundary



4/2010



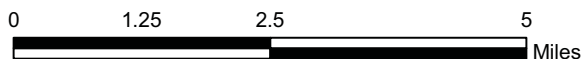


Tehama East Watershed Assessment

Hardwood Rangelands
Seven Mile Creek, Paynes Slough,
and Salt Creek



Tehama County Resource Conservation District
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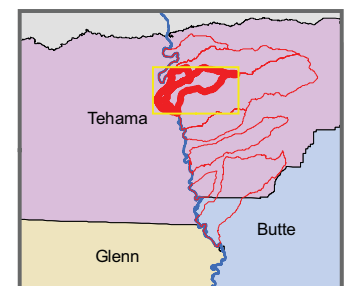
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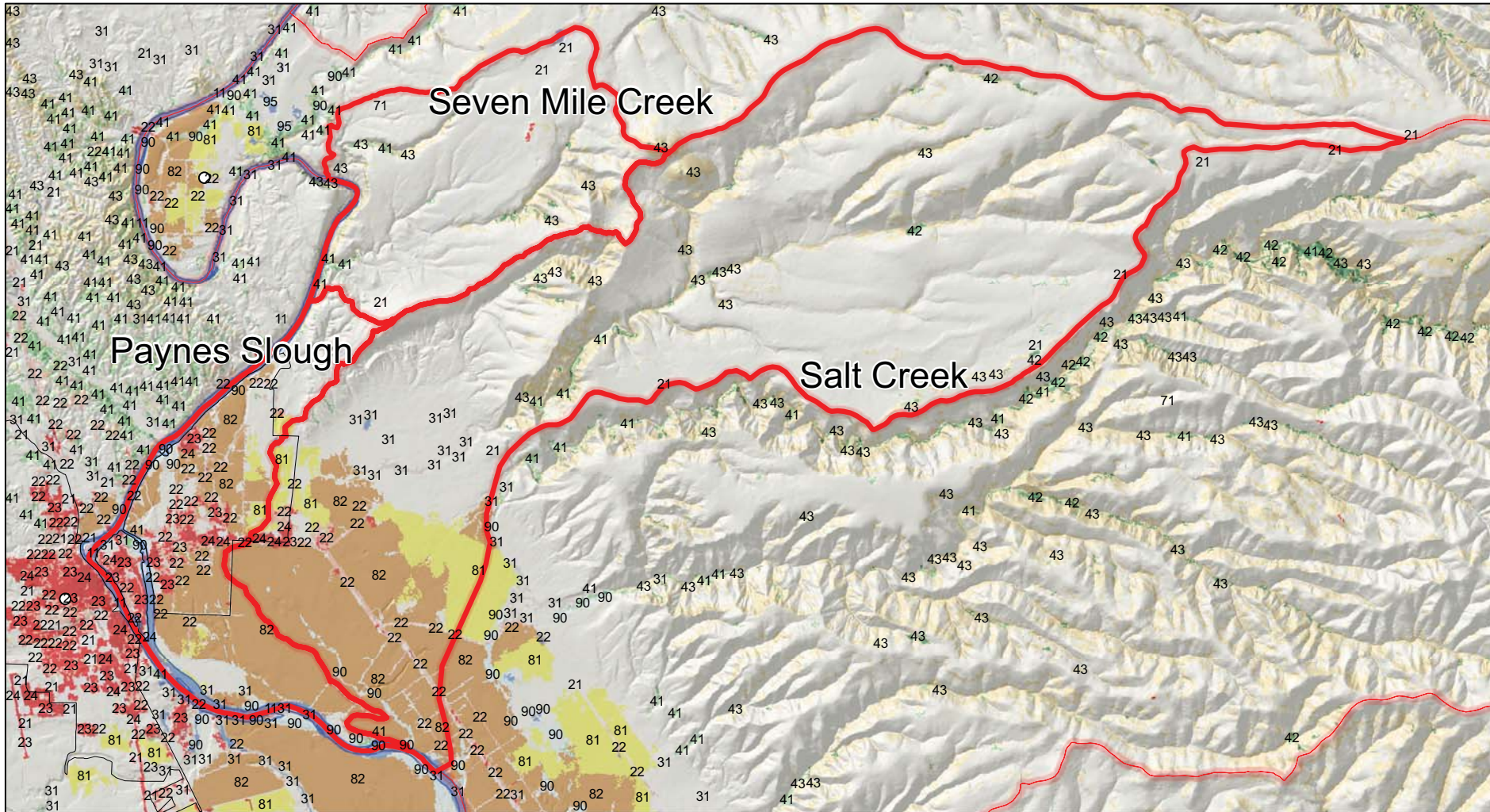
Cover Type

- BODP - Blue Oak \ Foothill Pine
- BOW - Blue Oak Woodland
- MH - Montane Hardwoods
- OTHER - Non-Hardwood
- VOW - Valley Oak Woodland

<http://frap.cdf.ca.gov/data/frapgisdata/download.asp?rec=hardwoods>

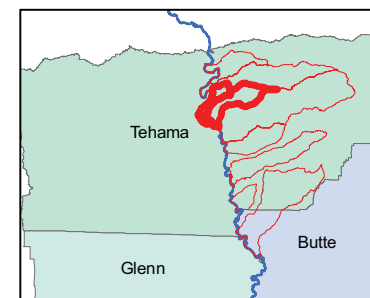
- Watershed Boundary
- Streams/Rivers
- Communities





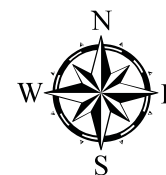
Tehama East Watershed Assessment

Land Cover National Land Cover Database Paynes Slough, Salt, and Seven Mile Creeks



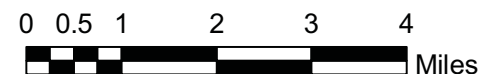
Legend

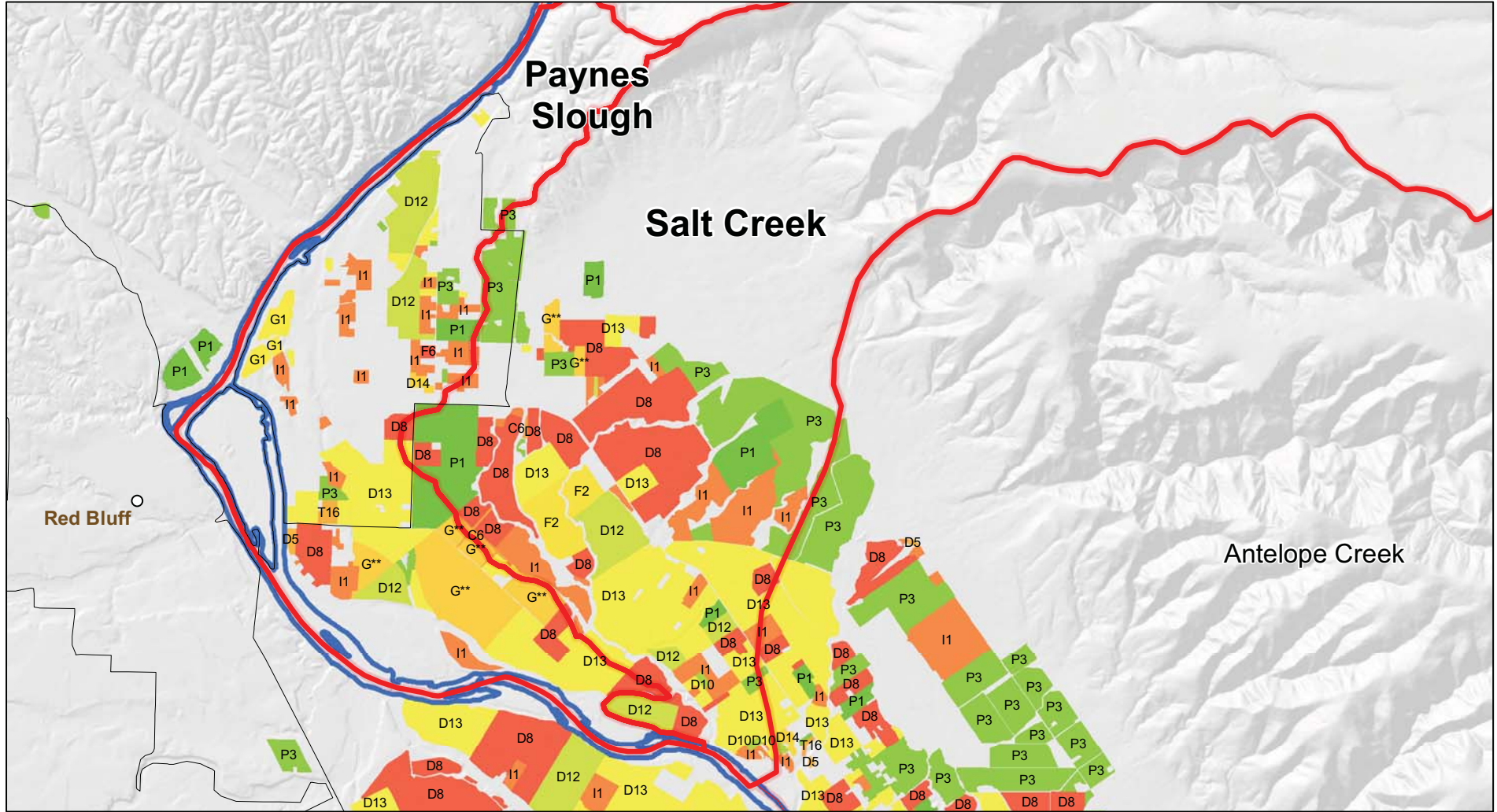
- | | | |
|----------------------------------|-----------------------------------|--------------------|
| 11 - Open Water | 52 - Shrub/Scrub | Urban Areas |
| 21 - Developed, Open Space | 71 - Grasslands/Herbaceous | Watershed Boundary |
| 22 - Developed, Low Intensity | 81 - Pasture/Hay | |
| 23 - Developed, Medium Intensity | 82 - Cultivated Crops | |
| 24 - Developed, High Intensity | 90 - Woody Wetlands | |
| 31 - Bare Rock/Sand/Clay | 95 - Emergent Herbaceous Wetlands | |
| 41 - Deciduous Forest | | |
| 42 - Evergreen Forest | | |
| 43 - Mixed Forest | | |



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http://www.mrlc.gov/nlcd_multizone_map.php
Homer, C. C. Huang, L. Yang, B. Wylie and M. Coan. 2004. Development of a 2001 National Landcover Database for the United States. Photogrammetric Engineering and Remote Sensing, Vol. 70, No. 7, July 2004, pp. 829-840.





Tehama East Watershed Assessment

Land Use - Agriculture

Department of Water Resources
Paynes Slough

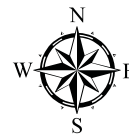
KEY

Land Use - Agriculture

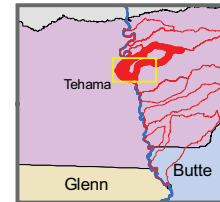
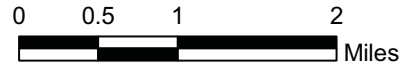
- | | | | | | |
|--------------------------------------|-----------------------------|---------------------------|--|--------------------------------------|-------------------------------------|
| C3 - Oranges | D6 - Pears | F2 - Safflower | G - Grain & Hay Crops | P2 - Clover | T9 - Melons, squash, and cucumbers |
| C6 - Olives | D8 - Prunes | F3 - Flax | G1 - Barley | P3 - Mixed Pasture | T10 - Onions and Garlic |
| C7 - Miscellaneous Subtropical Fruit | D9 - Figs | F5 - Sugar Beets | G2 - Wheat | P4 - Native Pasture | T15 - Tomatoes |
| C8 - Kiwis | D10 - Miscellaneous Deciduo | F6 - Corn, Field & Sweet | G3 - Oats | P5 - Induced High Water Table Nat. P | T16 - Flowers, Nursery & Tree Farms |
| C10 - Eucalyptus | D12 - Almonds | F8 - Sudan | G6 - Miscellaneous Grain & Hay | P7 - Turf Farms | T18 - Miscellaneous Truck Farms |
| D1 - Apples | D13 - Walnuts | F - Field Crops ** | G - Grain & Hay Crops ** | P - Pasture ** | T19 - Bush Berries |
| D2 - Apricots | D14 - Pistachios | F10 - Beans, Dry | I1 - Land not cropped for the last 3 years | R - Rice | T20 - Strawberries |
| D3 - Cherries | F - Field Crops | F11 - Miscellaneous Field | I2 - New lands being prepared for crop | R - Rice ** | V - Vineyards |
| D5 - Peaches and Nectarines | F1 - Cotton | F12 - Sunflowers | P1 - Alfalfa & alfalfa mixtures | T2 - Asparagus | V2 - Wine Grapes |
| | | | P3 - Alfalfa & alfalfa mixtures | T2 - Asparagus | V - Vineyards ** |

** No specific crop was assigned.

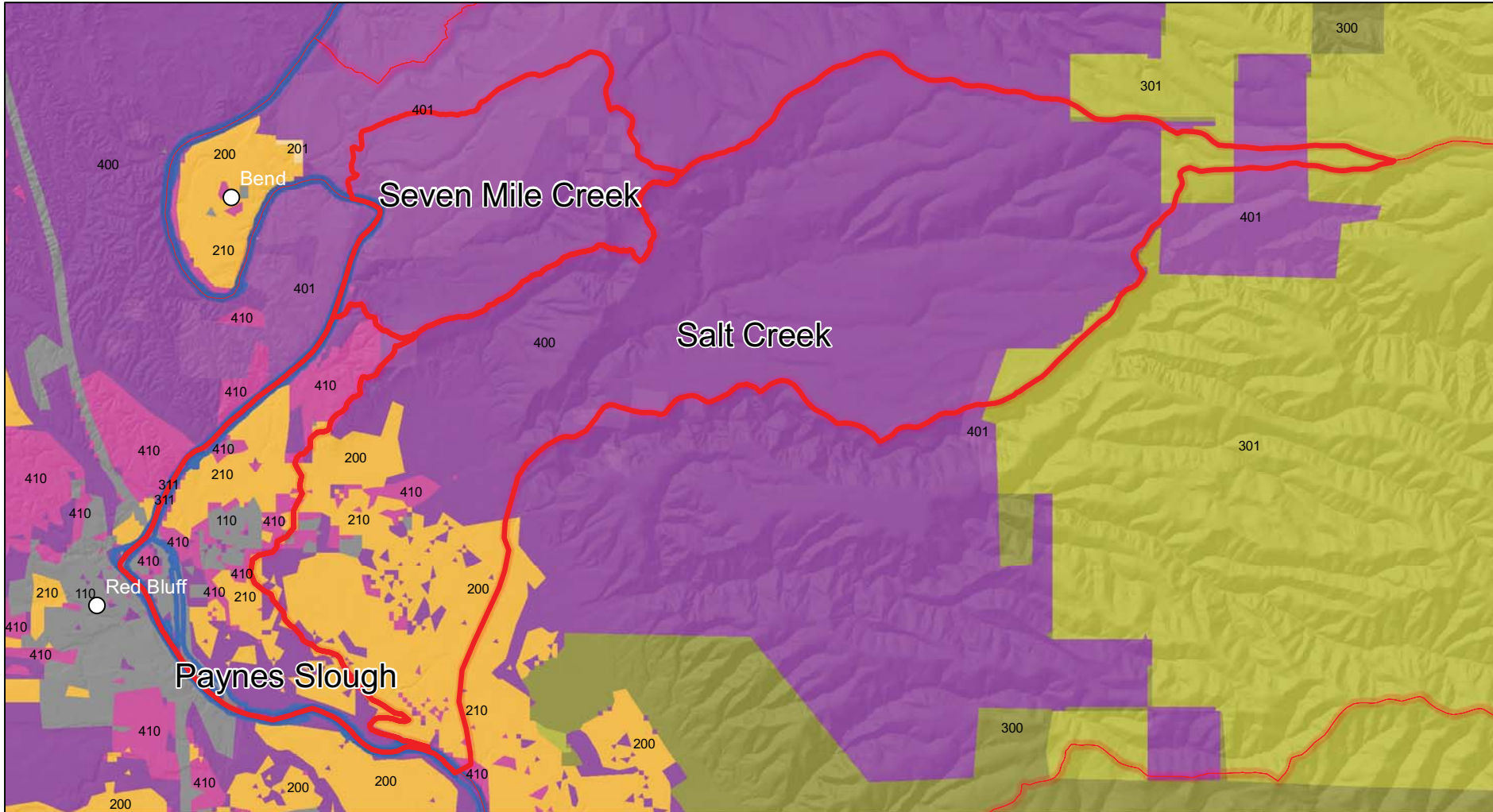
- Urban Areas
- Watershed Boundary



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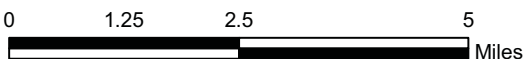
<http://www.water.ca.gov/landwateruse/lusrvmain.cfm>



**Tehama East
Watershed Assessment
Managementscapes
CalFire - FMMP (2000)
Seven Mile Creek, Paynes Slough,
and Salt Creek**

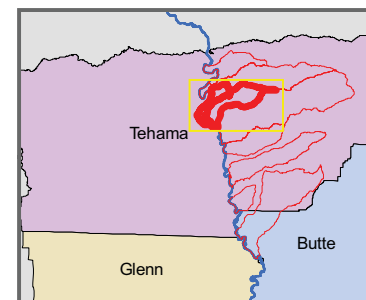


Tehama County Resource Conservation District
(c) 2010



Managementscape Grid Code

- 110 - URBAN/PRIVATE
- 111 - URBAN/PUBLIC
- 200 - AG/SPARSE RES/PRIVATE
- 201 - AG/SPARSE RES/PUBLIC
- 210 - AG/RURAL RES/PRIVATE
- 300 - RESERVE/SPARSE RES/PRIVATE
- 301 - RESERVE/SPARSE RES/PUBLIC
- 310 - RESERVE/RURAL RES/PRIVATE
- 311 - RESERVE/RURAL RES/PUBLIC
- 400 - WORKING/SPARSE RES/PRIVATE
- 401 - WORKING/SPARSE RES/PUBLIC
- 410 - WORKING/RURAL RES/PRIVATE
- 411 - WORKING/RURAL RES/PUBLIC



- Watershed Boundary
- Sacramento River
- Communities



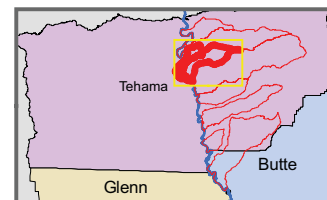
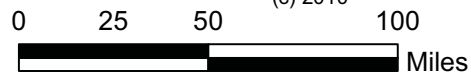
Tehama East Watershed Assessment

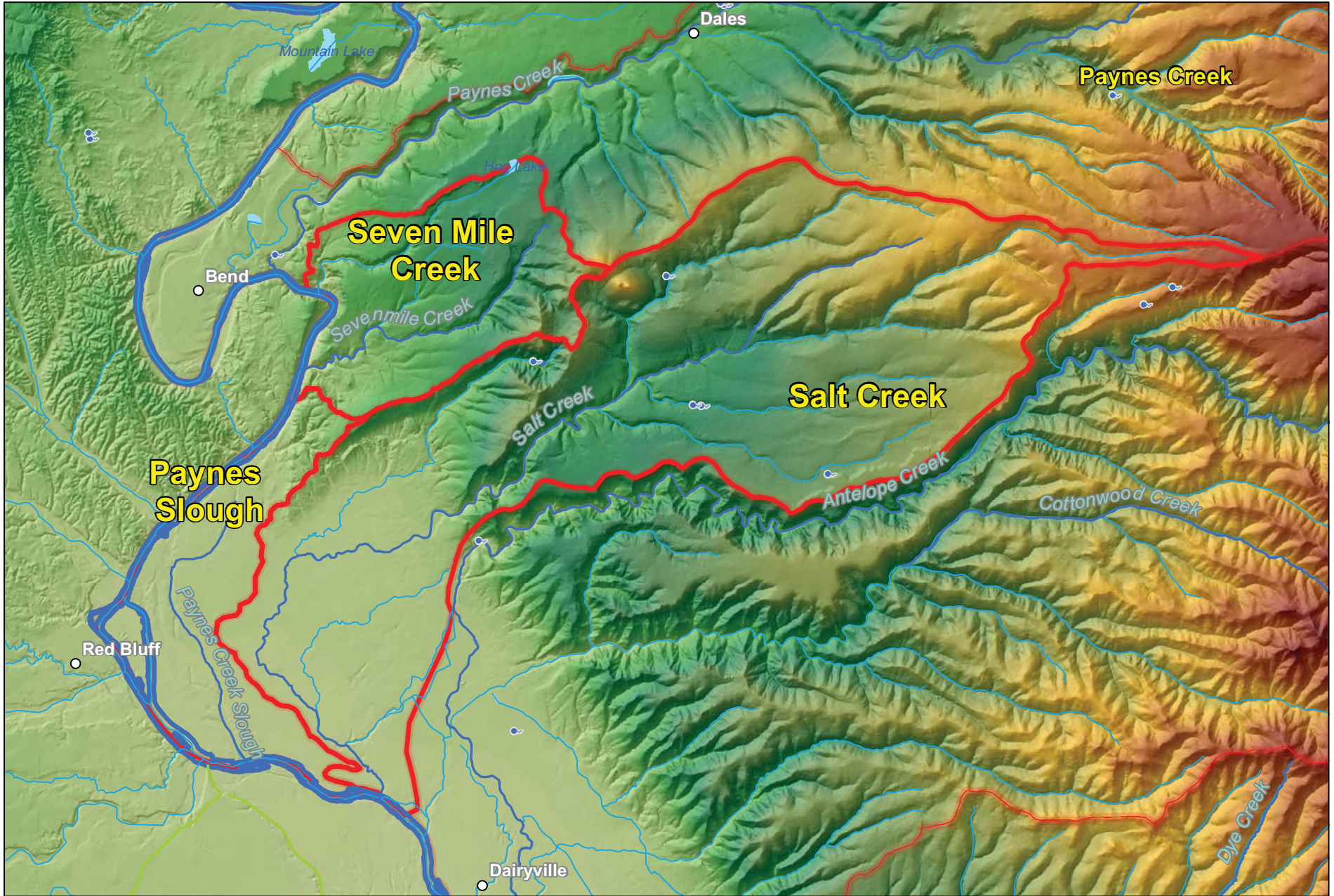
NAIP 2009

Seven Mile Creek, Paynes Slough, and Salt Creek



Tehama County Resource Conservation District
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Tehama East Watershed Assessment

Water Features

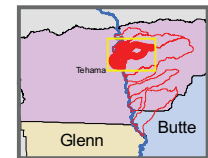
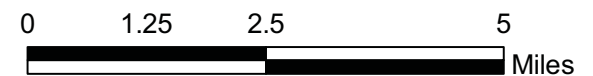
National Hydrography Dataset - USGS
 Seven Mile Creek, Paynes Slough,
 and Salt Creek

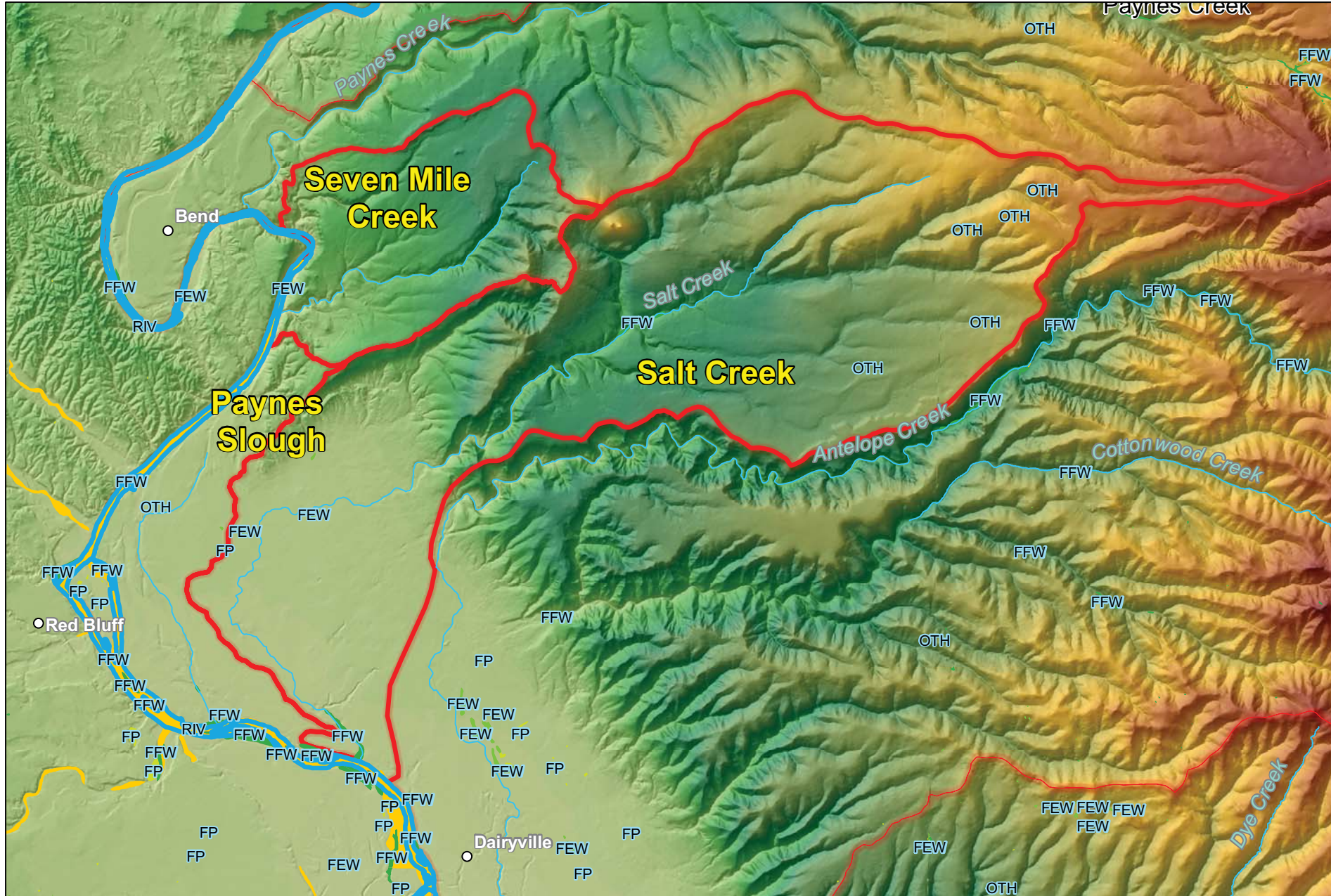
KEY

-  Springs
 -  Canal/Ditch
 -  Streams/Rivers
 -  Lake or Pond
 -  Watershed Boundary
- <http://nhd.usgs.gov/data.html>



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Tehama East Watershed Assessment

National Wetland Inventory
 US Fish & Wildlife Service
 Seven Mile Creek, Paynes Slough,
 and Salt Creek

KEY

Wetland Type

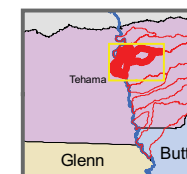
- FFW Freshwater Emergent Wetland
- FEW Freshwater Forested/Shrub Wetland
- FP Freshwater Pond
- LK Lake
- OTH Other
- RIV Riverine

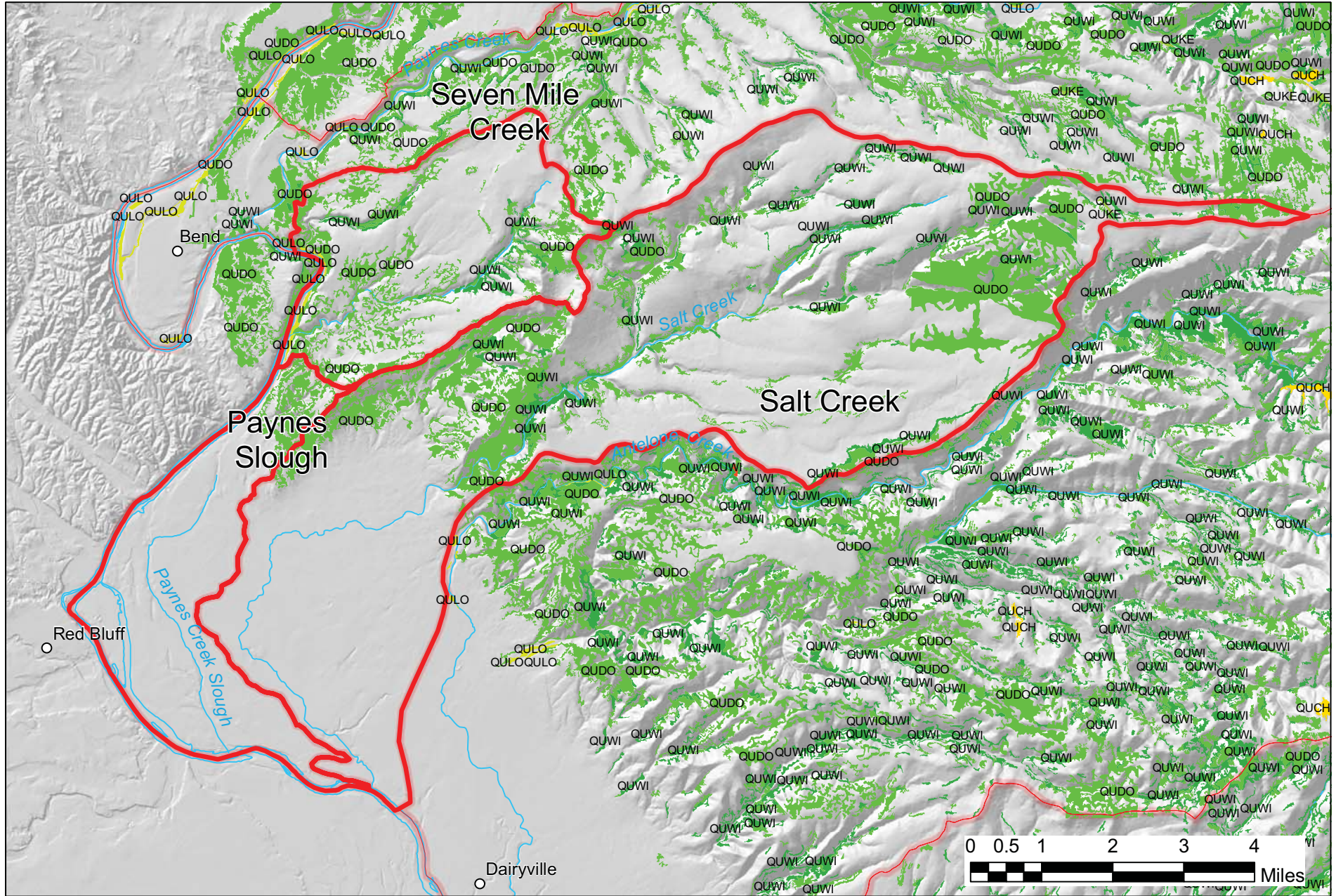
<http://www.fws.gov/wetlands/Data/DataDownload.html>

Watershed Boundary



Tehama County Resource
 Conservation District
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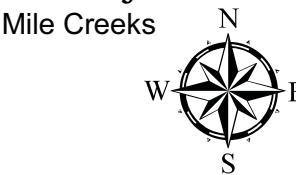
Tehama East Watershed Assessment

Oak Woodlands
TNC, CNPS, TCRCD Special Project
Paynes Slough, Salt & Seven Mile Creeks

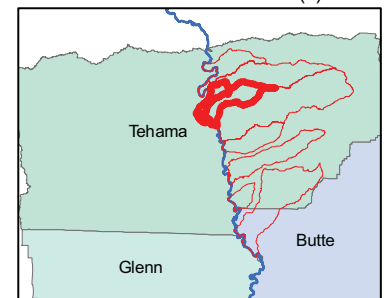
Tehama County Resource Conservation District (c) 2010

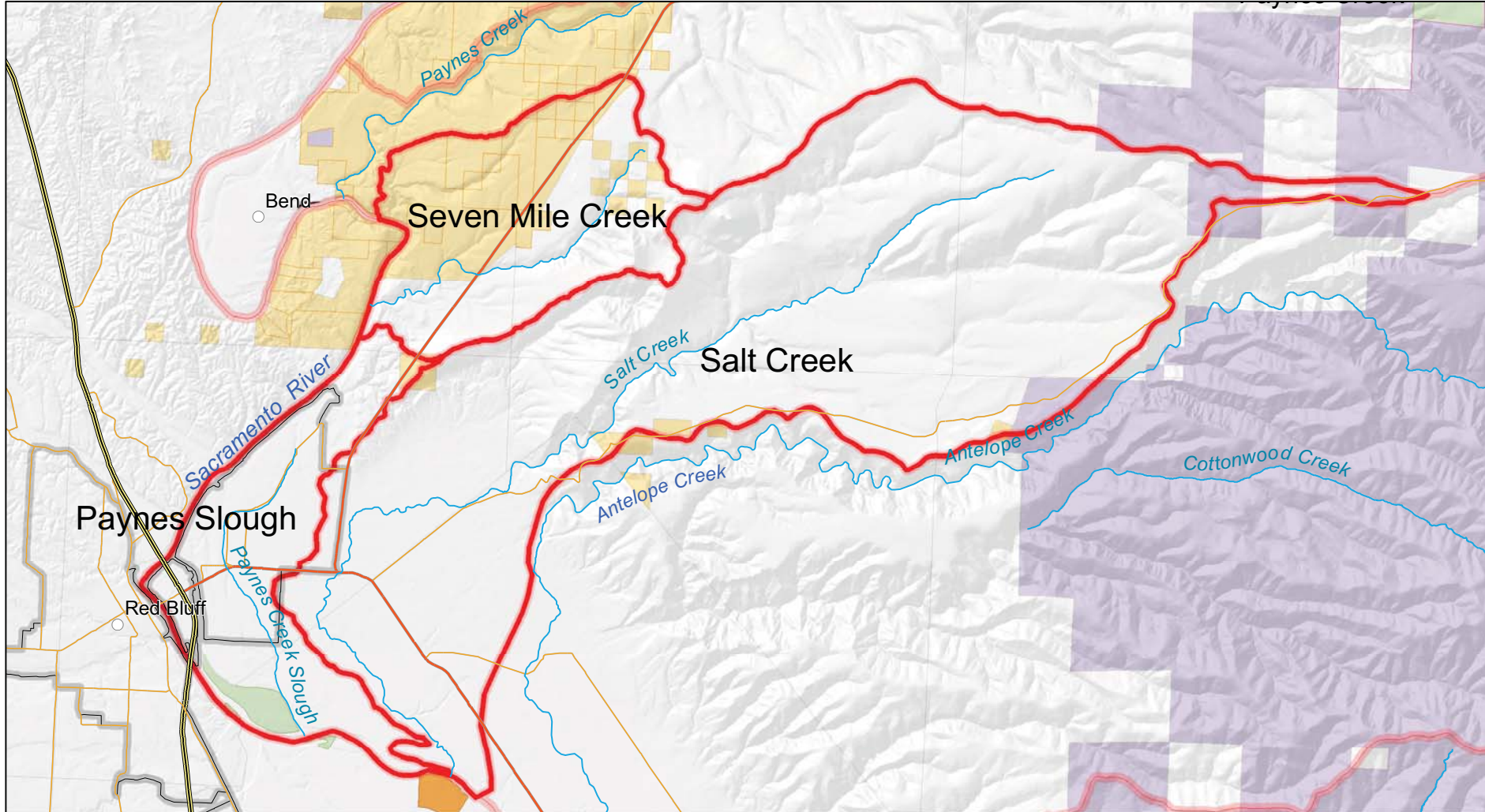
Legend

- QUWI Quercus wislizeni (Interior Live Oak Tree)
- QUDO Quercus douglasii (Blue Oak)
- QUKE Quercus kelloggii (Black Oak)
- QULO Quercus lobata (Valley Oak)
- QUCH Quercus chrysolepis (Canyon Live Oak)
- QUBE Quercus berberidifolia (scrub oak)
- QUDU Quercus durata (Leather Oak)
- QUGab Quercus garryana/ var. breweri (Brewer Oak)



 Watershed Boundary













Tehama East Watershed Assessment

Land Ownership Paynes Slough, Salt, and Seven Mile Creeks

Tehama County Resource Conservation District (c) 2010



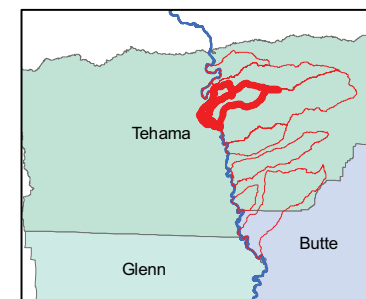
Legend

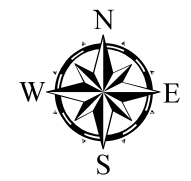
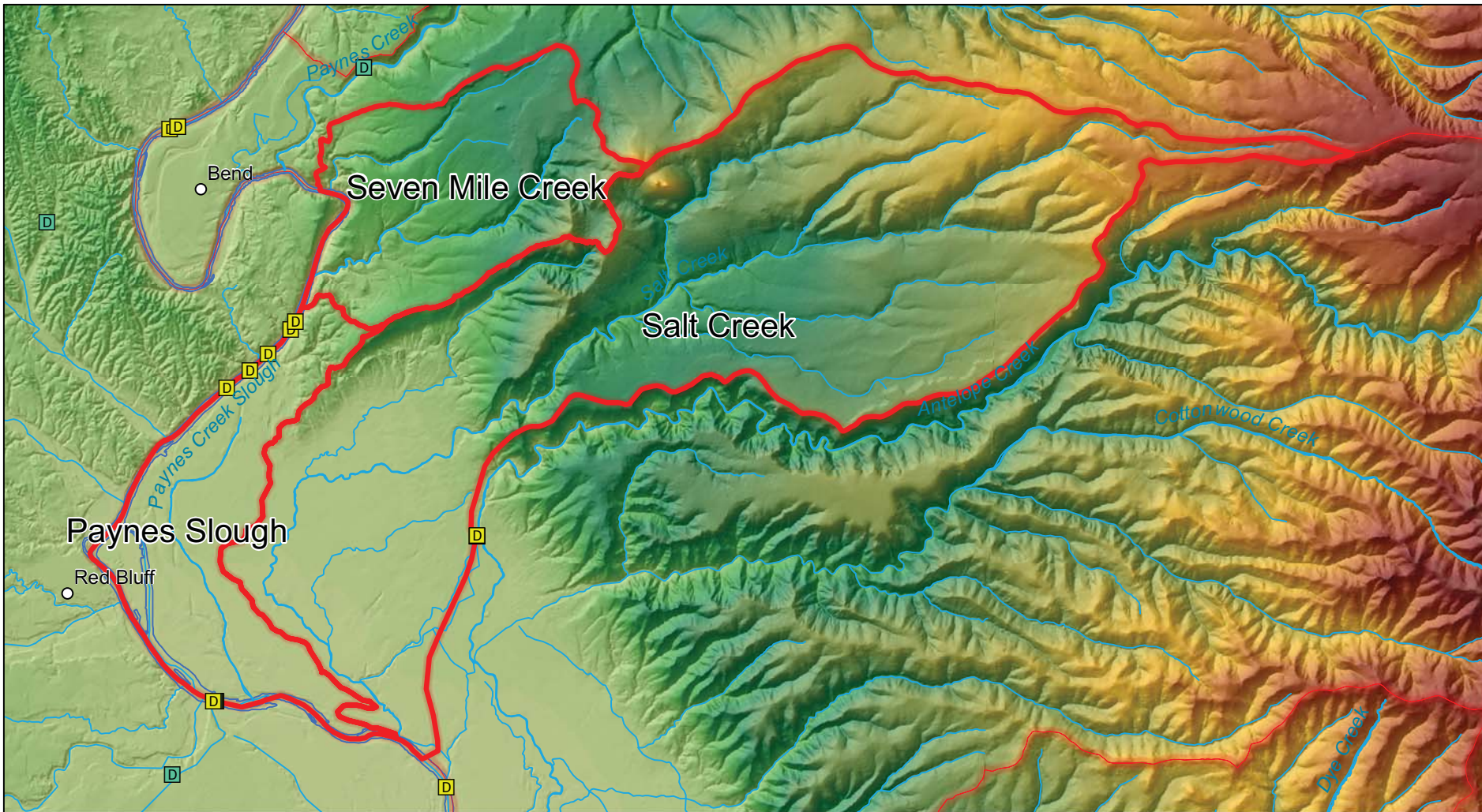
-  Major Roads & Highways
-  Urban Areas
-  Watershed Boundary
-  State Lands
-  US National Forest
-  US Bureau of Land Management
-  US Fish and Wildlife
-  US National Park Service

Paynes Slough
 State: 0 Acres
 National Forest: 288 Acres
 BLM: 89 Acres
 USFWS: 0 Acres
 Private: 5551 Acres

Seven Mile Creek
 State: 0 Acres
 National Forest: 0 Acres
 BLM: 3,315 Acres
 USFWS: 0 Acres
 Private: 3,497 Acres

Salt Creek
 State: 959 Acres
 National Forest: 0 Acres
 BLM: 223 Acres
 USFWS: 0 Acres
 Private: 28244 Acres





Tehama East Watershed Assessment

Passage Assessment Database
Paynes Slough,
Salt, and Seven Mile Creeks



Tehama County Resource Conservation District
(c) 2010

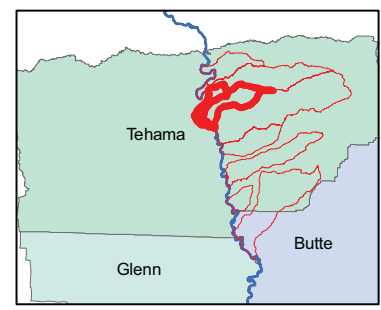
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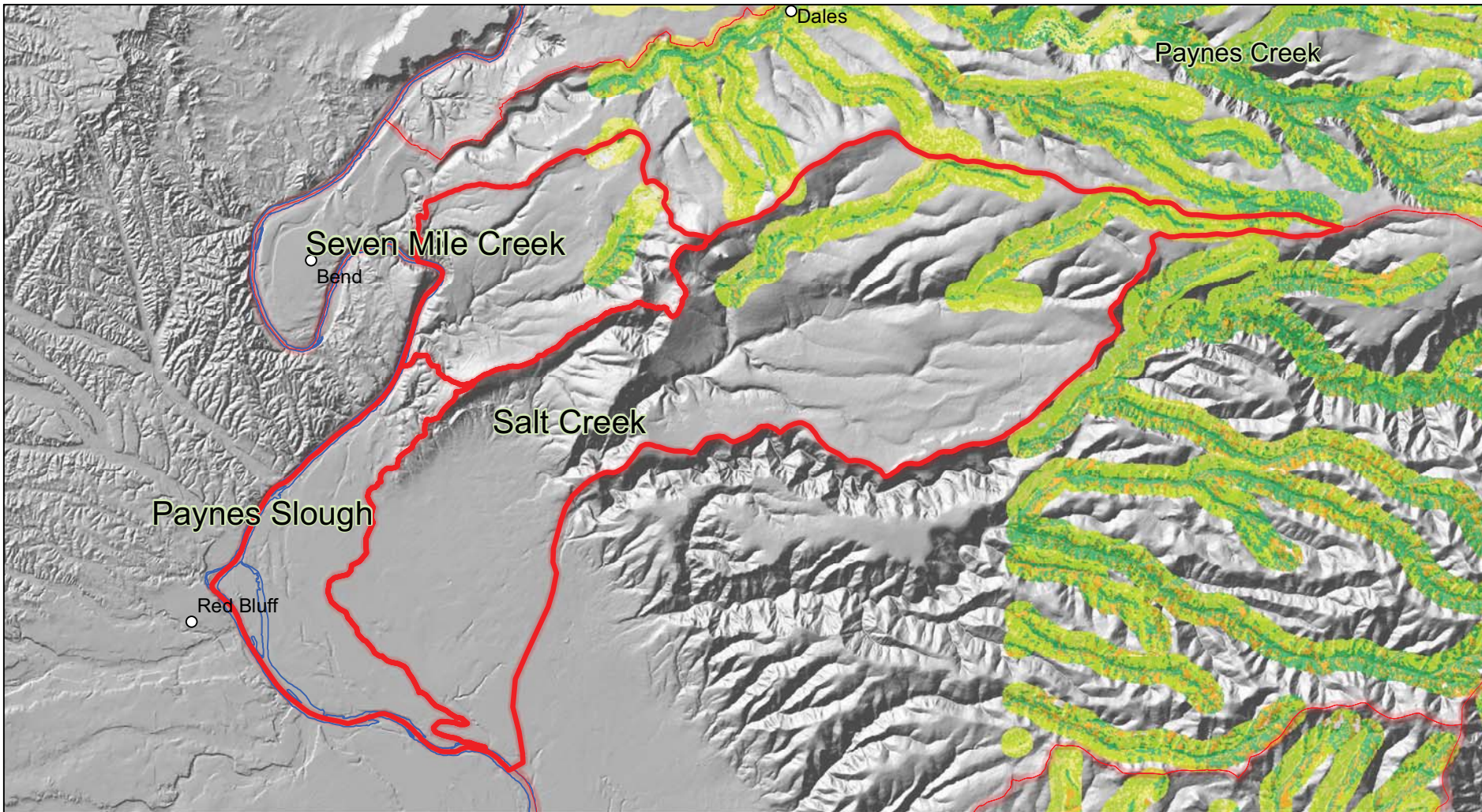
Site Type

- Dam
- Diversion
- Fish trap
- Non-structural
- Road crossing

<http://www.calfish.org/DataampMaps/CalFishDataDownloads/tabid/93/Default.aspx>

Watershed Boundary





Tehama East Watershed Assessment

Riparian Vegetation
in Hardwood Rangelands
Antelope Creek



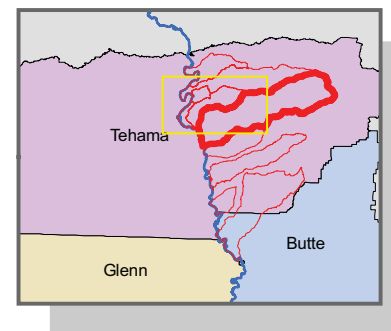
Tehama County Resource Conservation District
(c) 2010

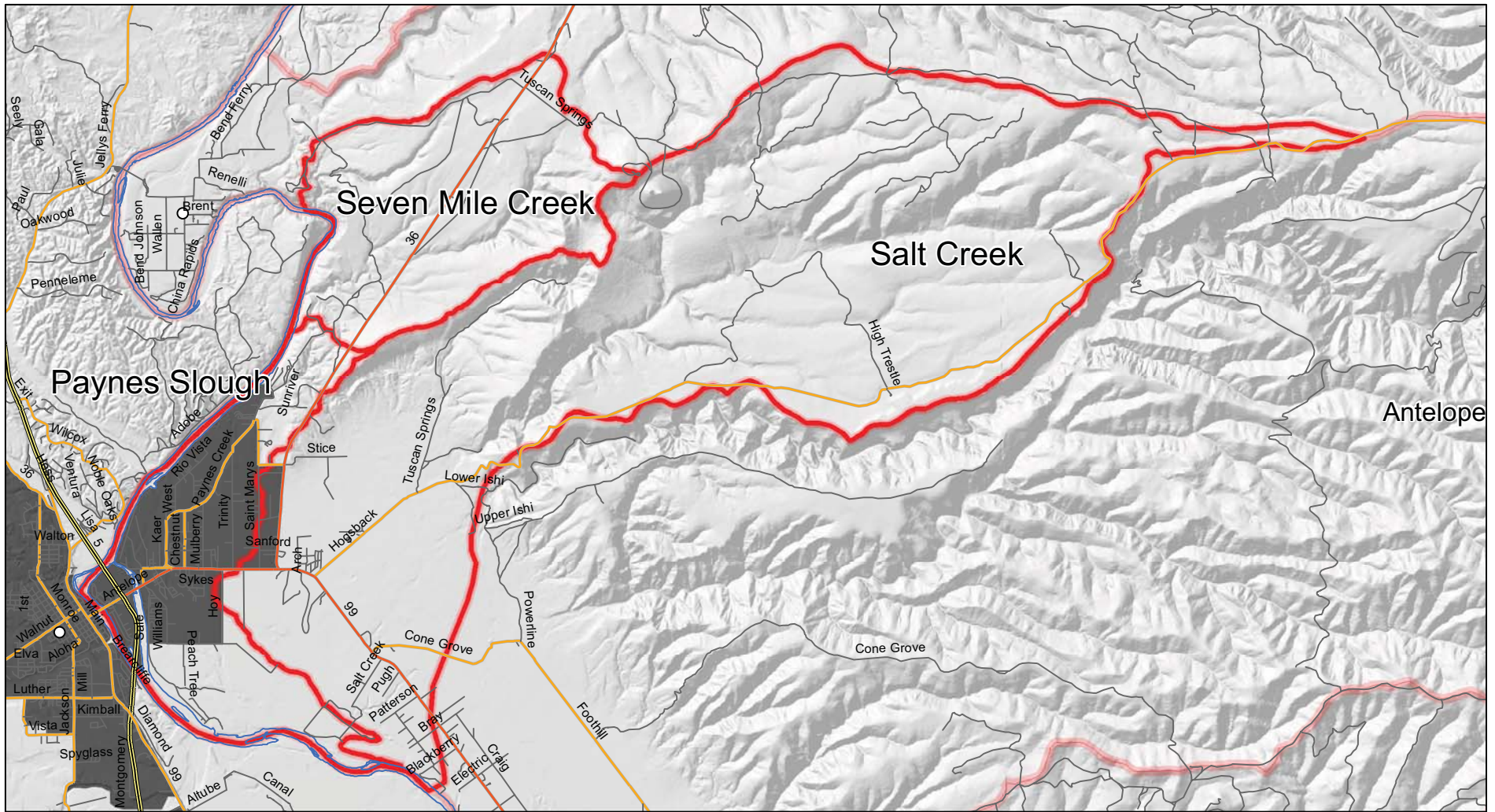


KEY

- Riparian
- Hardwood Range w/<70% Canopy
- Shrub
- Conifer
- Herbaceous
- Water
- Other: Urban, Marsh, Rock, Barren

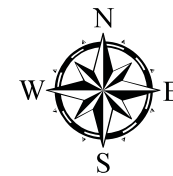
Watershed Boundary





Tehama East Watershed Assessment

Roadways
Paynes Slough,
Salt, and Seven Mile Creeks

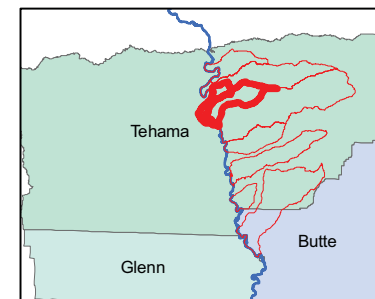


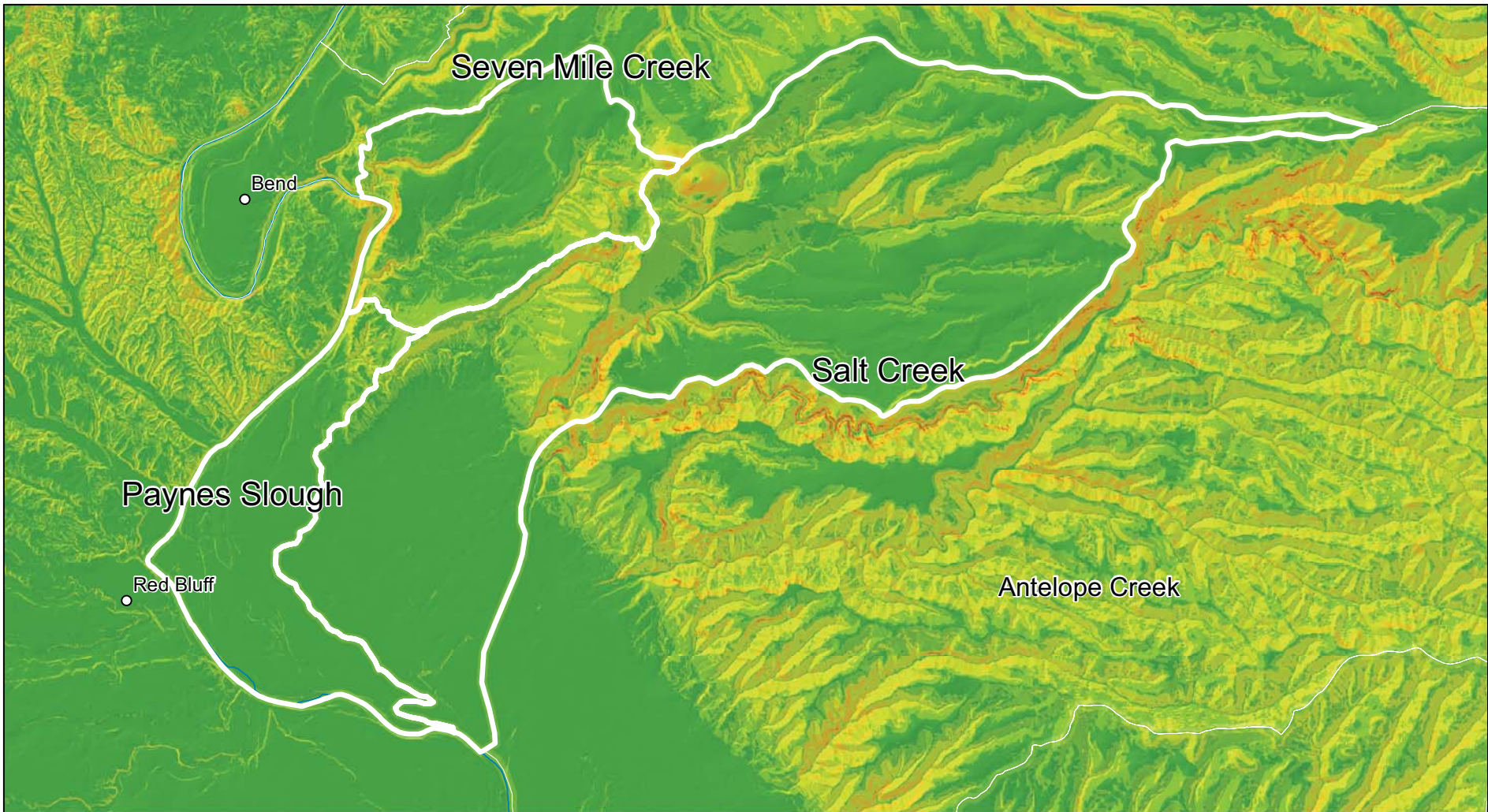
Legend

- | | | | | | | | |
|--|----------------|--|------------|--|----------------|--|--------------------|
| | Limited Access | | Local Road | | Ramp | | Urban Areas |
| | Highway | | Minor Road | | Ferry | | Watershed Boundary |
| | Major Road | | Other Road | | Pedestrian Way | | |



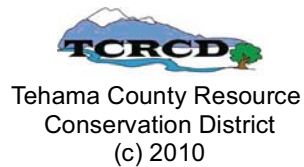
Tehama County Resource
Conservation District
(c) 2010











Tehama East Watershed Assessment


Percent Slope
Paynes Slough,
Salt, and Seven Mile Creeks

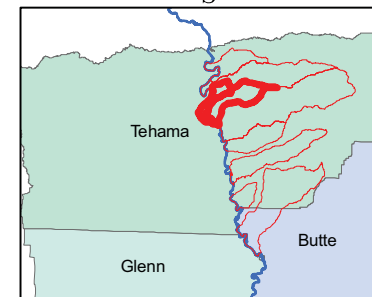
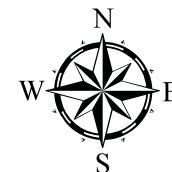
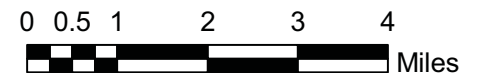


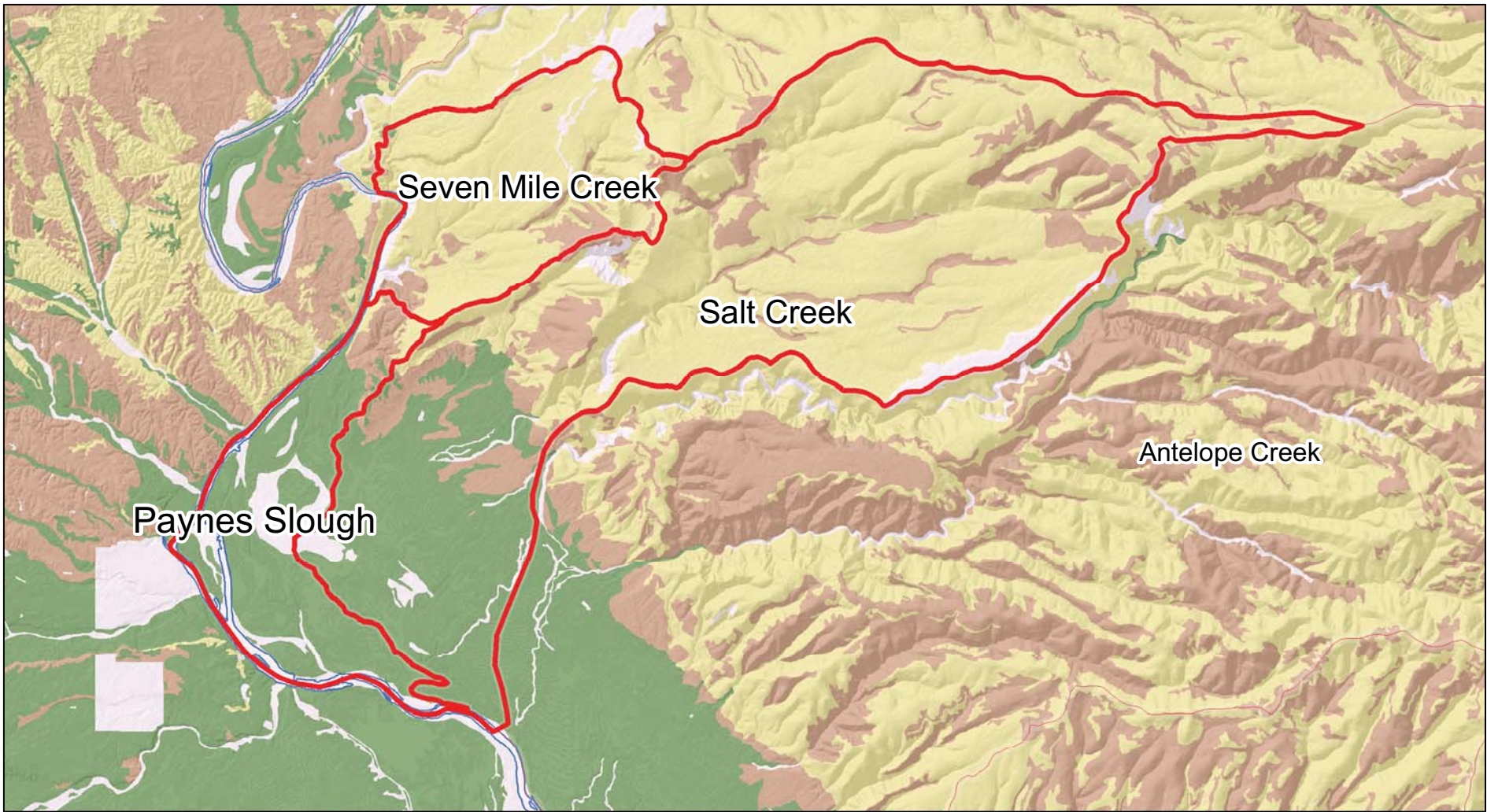
Legend

Percent Slope

-  0 - 2 Percent
-  2 - 5 Percent
-  5 - 10 Percent
-  10 - 20 Percent
-  20 - 50 Percent
-  50 - 100 Percent

 Watershed Boundary



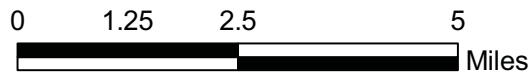


Tehama East Watershed Assessment

NRCS Soils Highly Erodible Soils
Paynes Slough,
Salt, and Seven Mile Creeks



Tehama County Resource Conservation District
(c) 2010

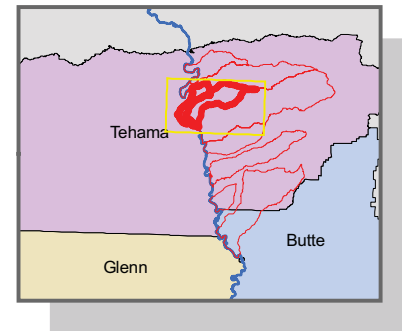


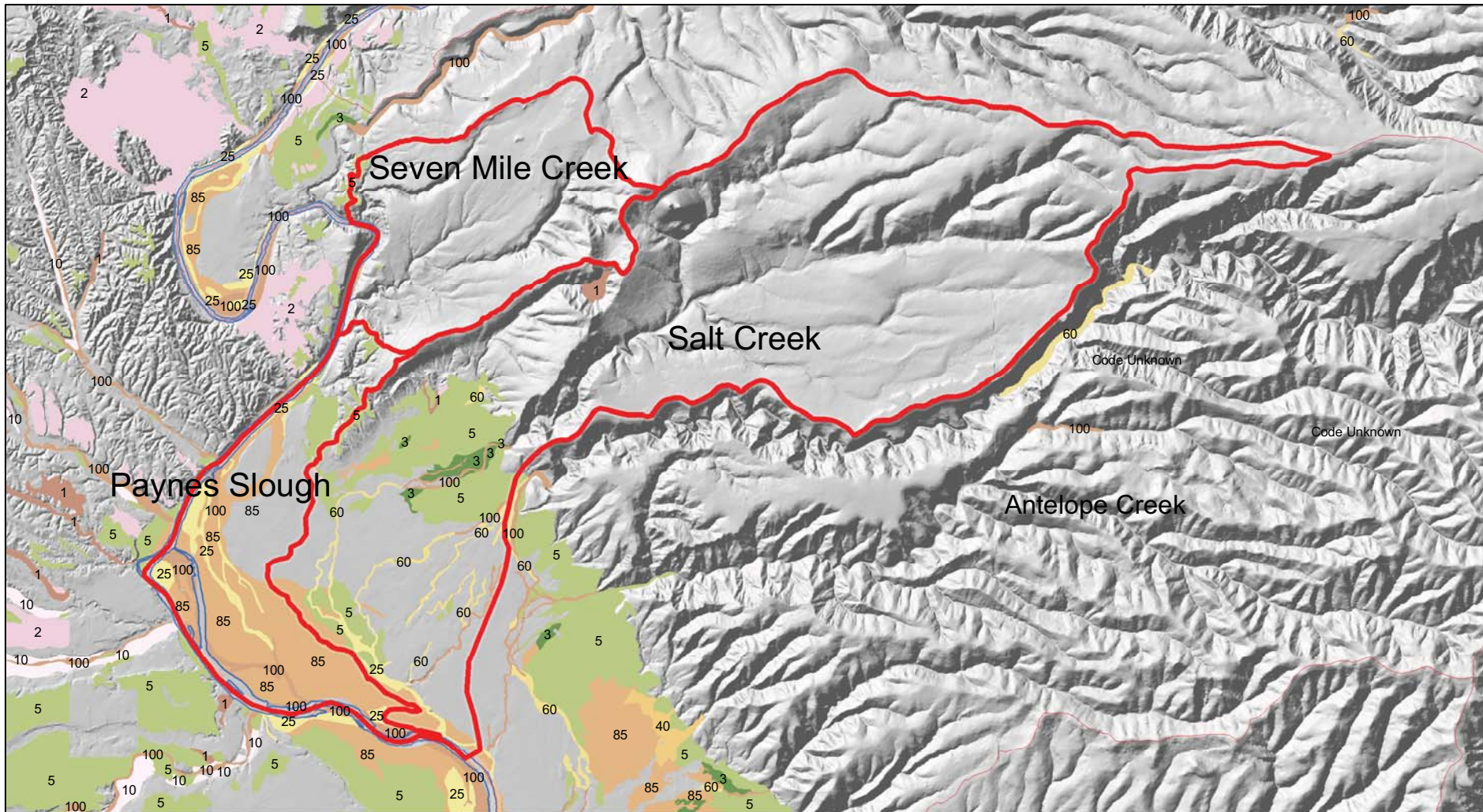
KEY

Highly Erodible Land Classification

- 1
- 2
- 3
- Code Unknown

Watershed Boundary



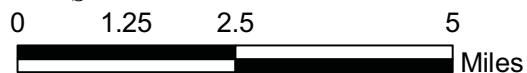


Tehama East Watershed Assessment

NRCS Soils Hydric Soils
Paynes Slough,
Salt and Seven Mile Creeks



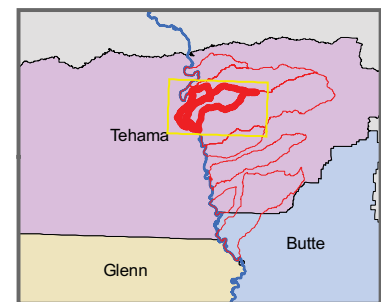
Tehama County Resource Conservation District
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KEY

Hydric Percentage			
	1		40
	2		60
	3		85
	5		100
	10		C
	25		CX
	35		X
			Code Unknown

Watershed Boundary



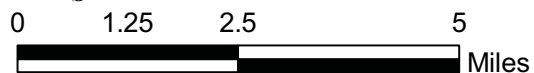


Tehama East Watershed Assessment

NRCS Soils Hydrologic Group
Paynes Slough,
Salt, and Seven Mile Creeks



Tehama County Resource Conservation District
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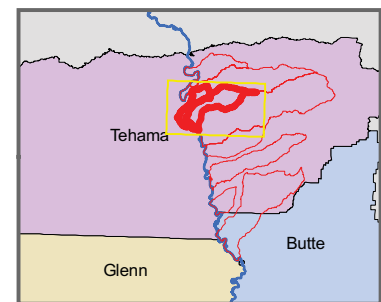
KEY

Hydrologic Group

- A
- B
- C
- D

Code Unknown

Watershed Boundary



Tehama East Watershed Assessment Atlas

Cartography and GIS Data Development

Randy Cousineau
Catherine Benjamin

District Manager

Vicky Dawley

For more information, please contact:

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530.527.3013 x3
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