

WORK SESSION MINUTES

October 24, 2017

1:30 p.m.

Commissioners' Office Conference Room
434 NE Evans St

PRESENT: Commissioners Stan Primozich, Mary Starrett and Richard L. "Rick" Olson.

STAFF: Laura Tschabold, John Phelan and Mikalie Frei.

Guests: Susan Markham-Aldrich and Michal Wert, Roadside Vegetation Committee members and others as listed on the sign in sheet.

TOPIC: Roadside Vegetation Committee Annual Report

Commissioner Primozich called the meeting to order at 1:30 p.m.

Mr. Phelan introduced Susan Markham-Aldrich and Michal Wert, members of the Roadside Vegetation Committee and thanked them for their countless hours of volunteering. He stated that the progress that is being made to identify and inventory roadside vegetation in Yamhill County is due to the hard work and dedication of the Roadside Vegetation Committee.

Ms. Markham-Aldrich gave a brief overview of the Roadside Vegetation Inventory and specific roads that were studied this past summer (see Exhibit A). Students from George Fox University assisted with the inventory project and GIS mapping of certain roads for native and invasive plants including Rock Creek, Kramien, Earlwood, Hacker, Breyman Orchards, Webfoot, Thompson Mill, Peavine and Masonville Rd. Criteria for mapping invasive plants is critical early on and early detection and rapid response is the key. The GIS interns also were able to map areas where erosion is occurring. The roads identified with significant erosion were Kuykendall, Clay Pit, North Valley, Ribbon Ridge, Mineral Springs, Hendricks and Bayliss Rd. Criteria for mapping erosion is critical to the success of vegetation control. Using GIS to calculate lane miles of road and erosion provides an analysis of areas with extreme conditions and the data collected can be used to make informed management decisions. Ms. Markham-Aldrich also stated that communicating findings to the public and engaging the help of farmers and the Soil and Water Conservation District are critical in moving forward and generating public support in this effort.

There being no other business, the meeting adjourned at 2:10 p.m.

Keri Hinton

Secretary

Accepted by Yamhill County
Board of Commissioners on

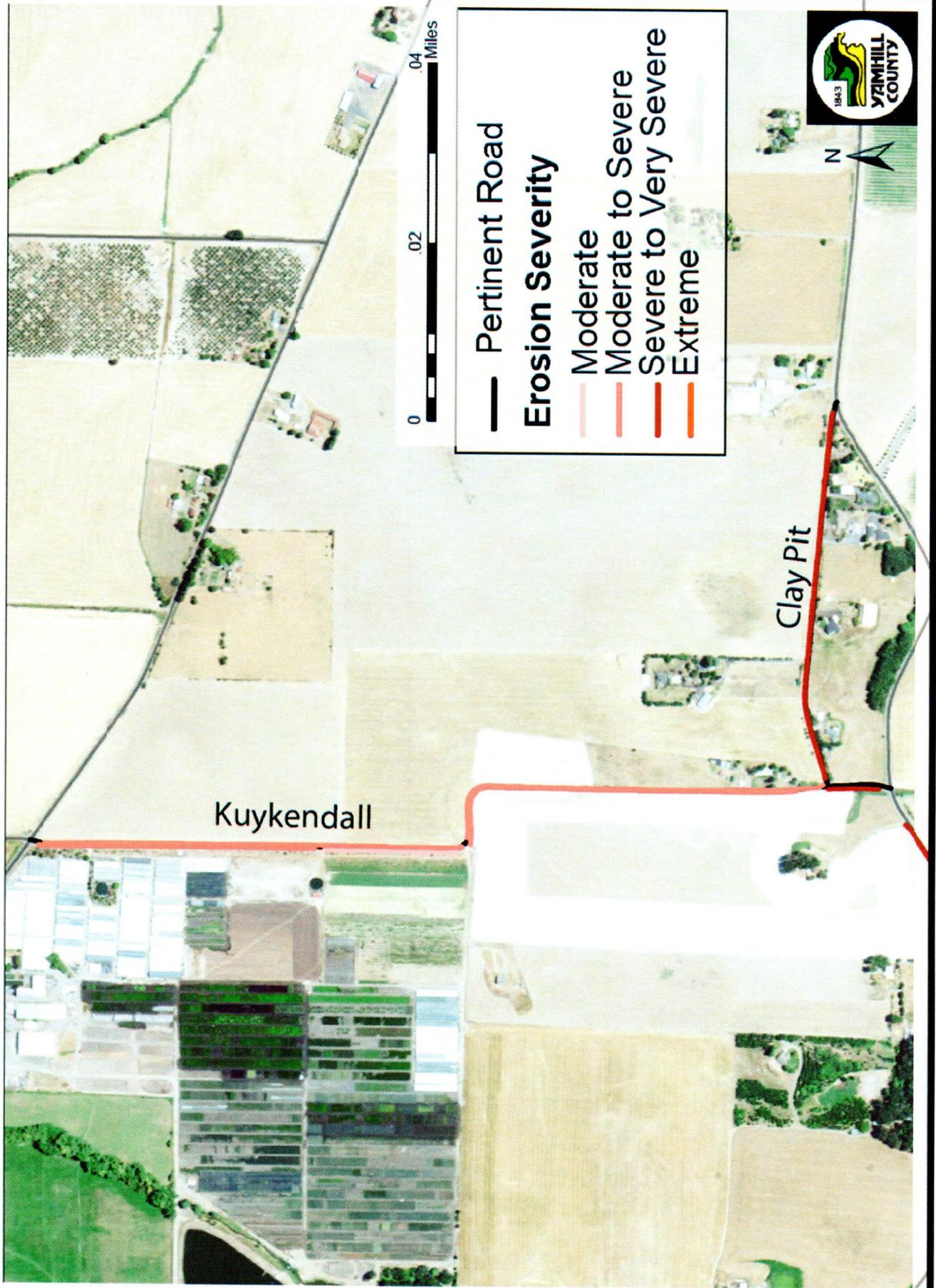
11-9-17 by Board Order
17-2457

 SP MS RO RO



Purple Loosestrife
Masonville Rd
7-7-17

Erosion: Kuykendall and Clay Pit



Analysis of Erosion

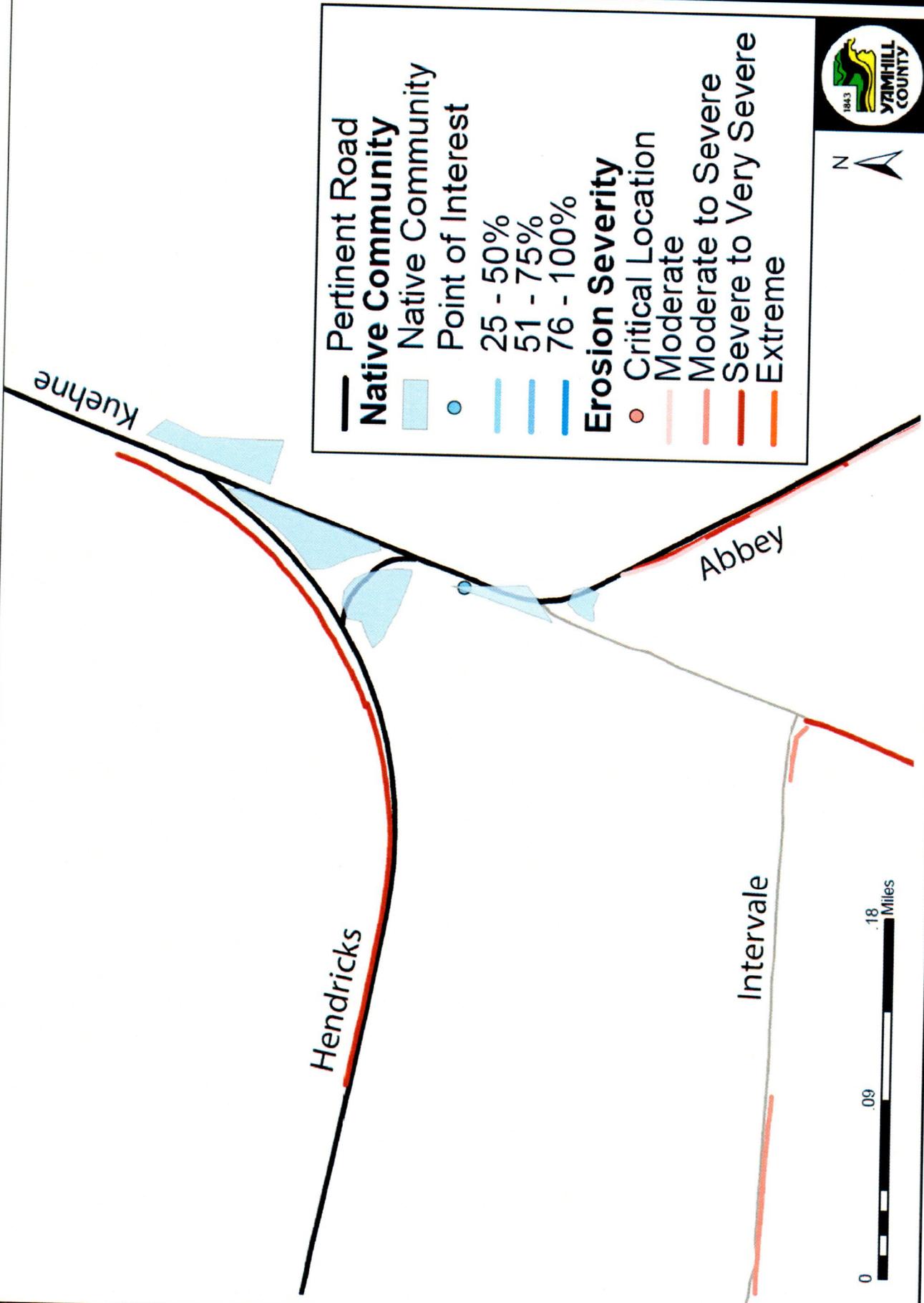
Kuykendall Rd

- Total Lane Miles of Road = 1.92
- Total Lane Miles of Erosion = 1.75
 - Moderate = .14
 - Moderate-Severe = 1.56
 - Severe-Extreme = .05
 - Extreme = 0

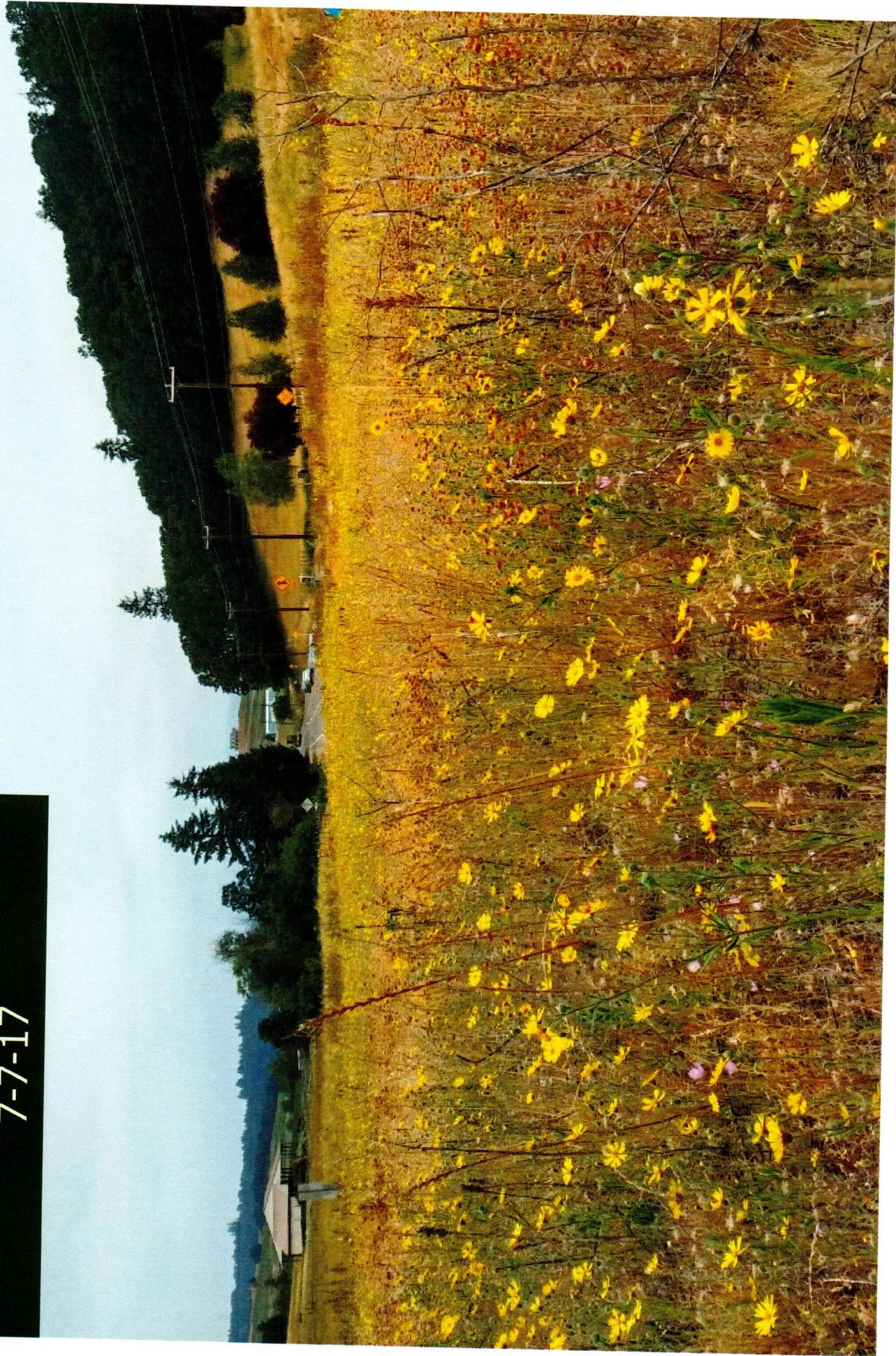


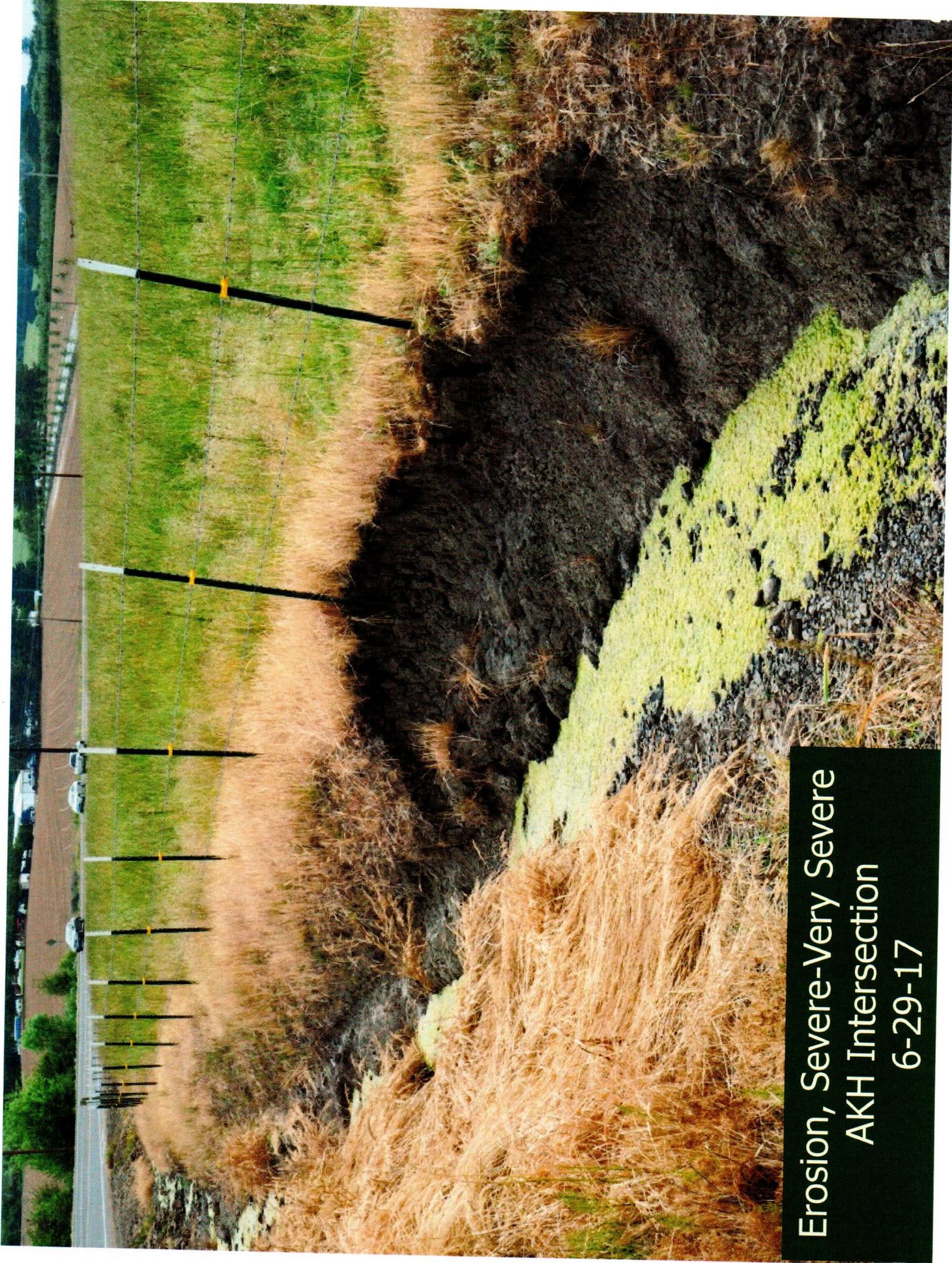
Erosion, Severe-Very Severe
Mineral Springs Rd
8-8-17

Native Plants & Erosion: Abbey-Kuehne-Hendricks



Community, 75-100% Native
AKH Intersection
7-7-17





Erosion, Severe-Very Severe
AKH Intersection
6-29-17



Erosion, Severe-Very Severe
Abbey Rd
6-29-17



Erosion, Severe-Very Severe
Abbey Rd
6-29-17

Results



- Demonstrated the value of the RVI
- Developed the criteria for mapping
- Developed the process for collecting and displaying data
- Made a good start on roads inventoried
- Used data for management decisions

What's Next?



- Continue the RVI – GIS interns in 2018
- Get access to ArcMap in the County
- Expand RVI use as a management tool
- Involve the public in contributing data
- Communicate RVI findings to the public to generate public support for PW – Web

The entire cross-section of a finished highway should be paved. Concrete or asphalt pavements support vehicular traffic, while the major portion of a right-of-way is paved with living plants for soil conservation.



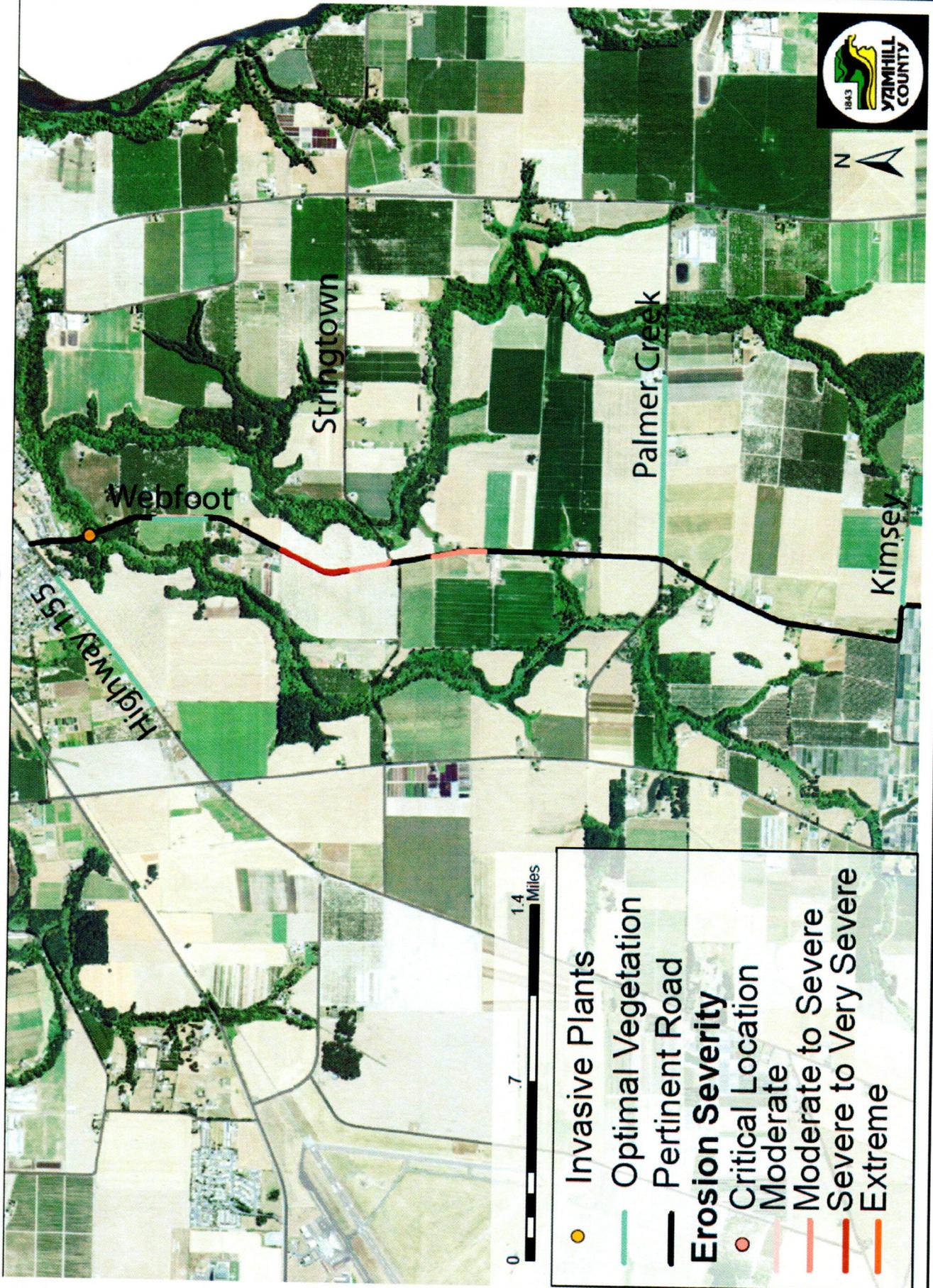
Erosion Control on Roadsides in Texas

Wayne McCully & William Bowmer, 1969

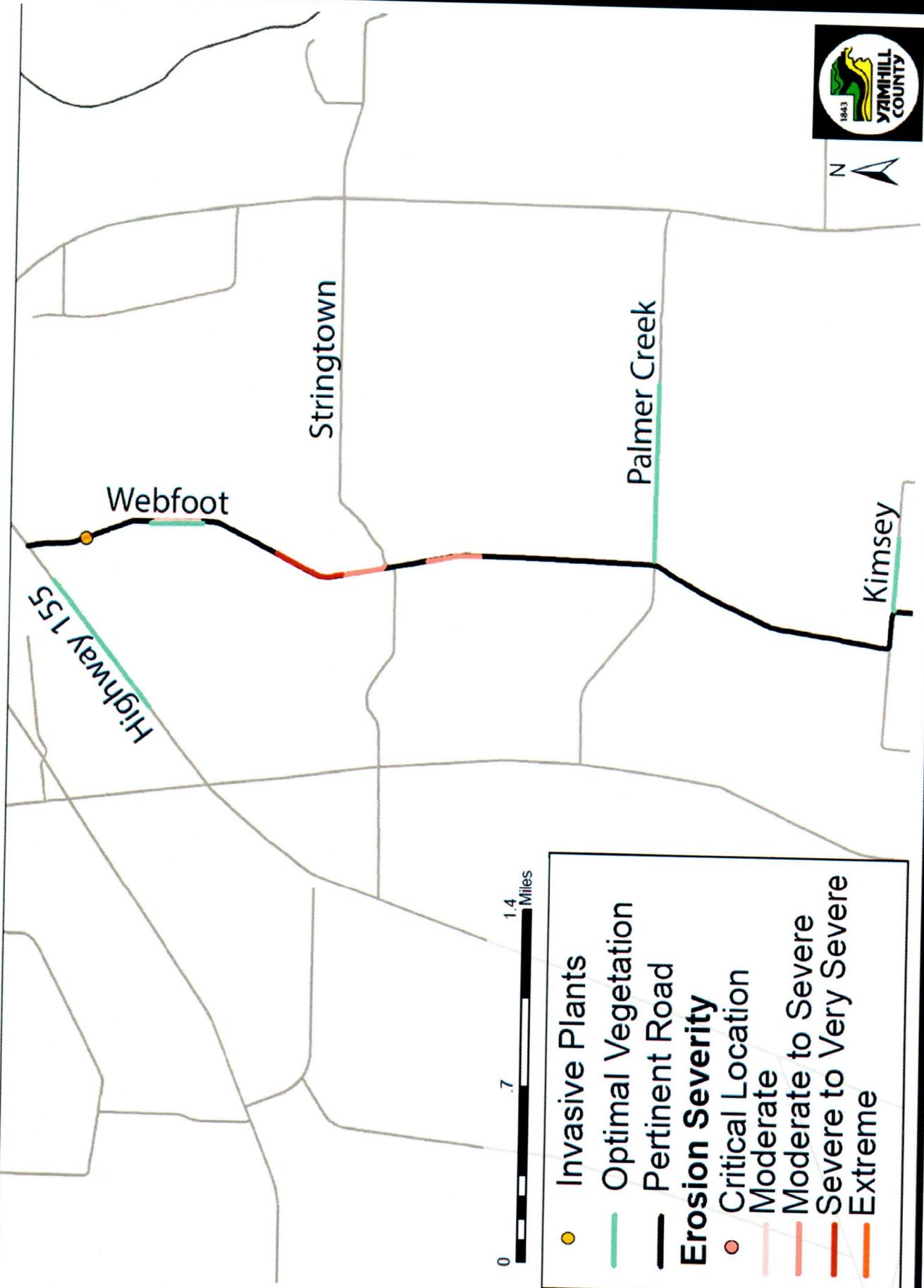
Erosion, Severe-Very Severe
Mineral Springs Rd
8-8-17



Erosion & Optimal Vegetation: Webfoot



Erosion & Optimal Vegetation: Webfoot





Erosion, Severe-Very Severe
Webfoot Rd
8-1-17



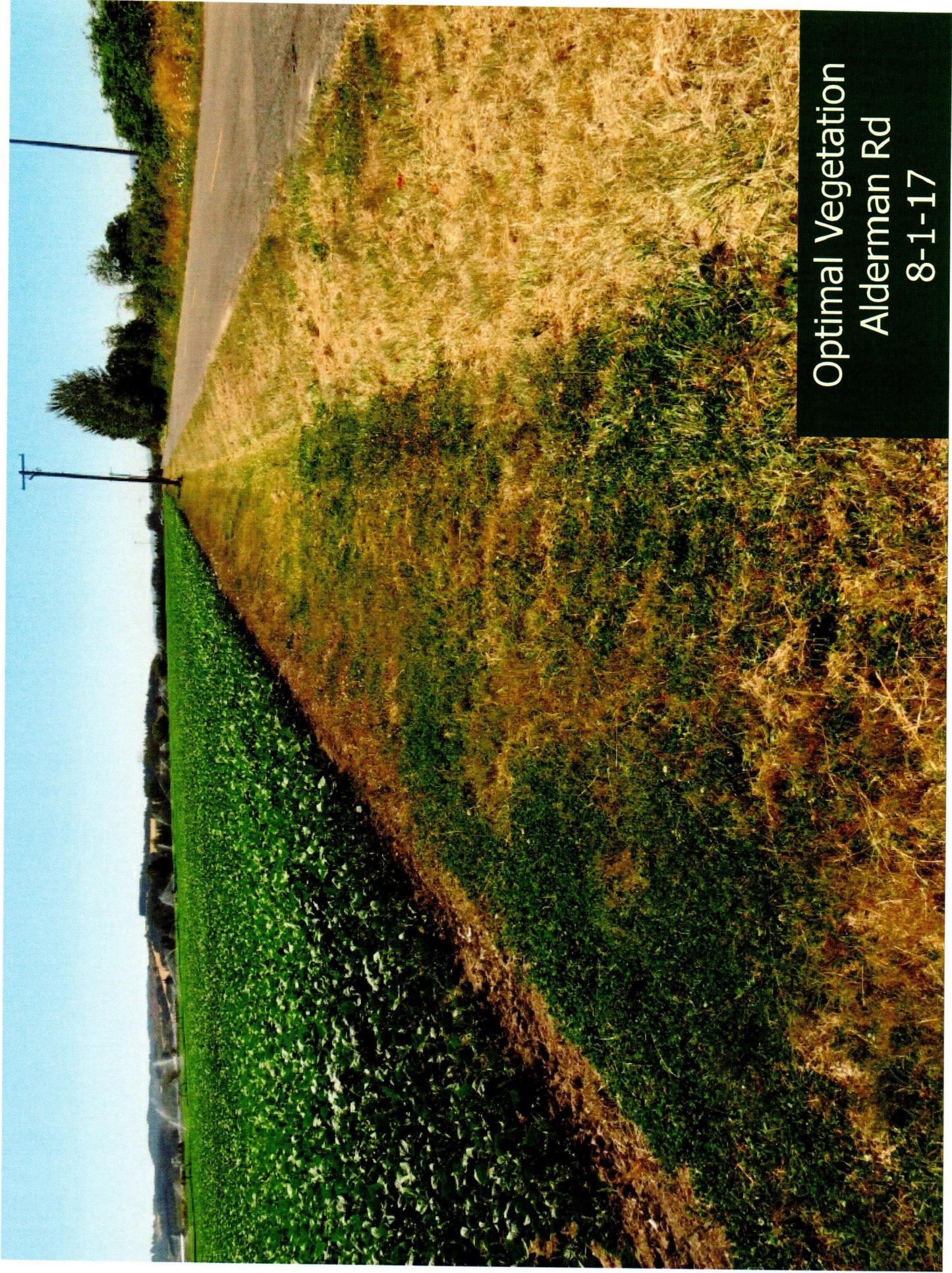
Erosion, Severe-Very Severe
Webfoot Rd
8-1-17



Optimal Vegetation
Webfoot Rd
8-1-17



Optimal Vegetation
Webfoot Rd
8-1-17

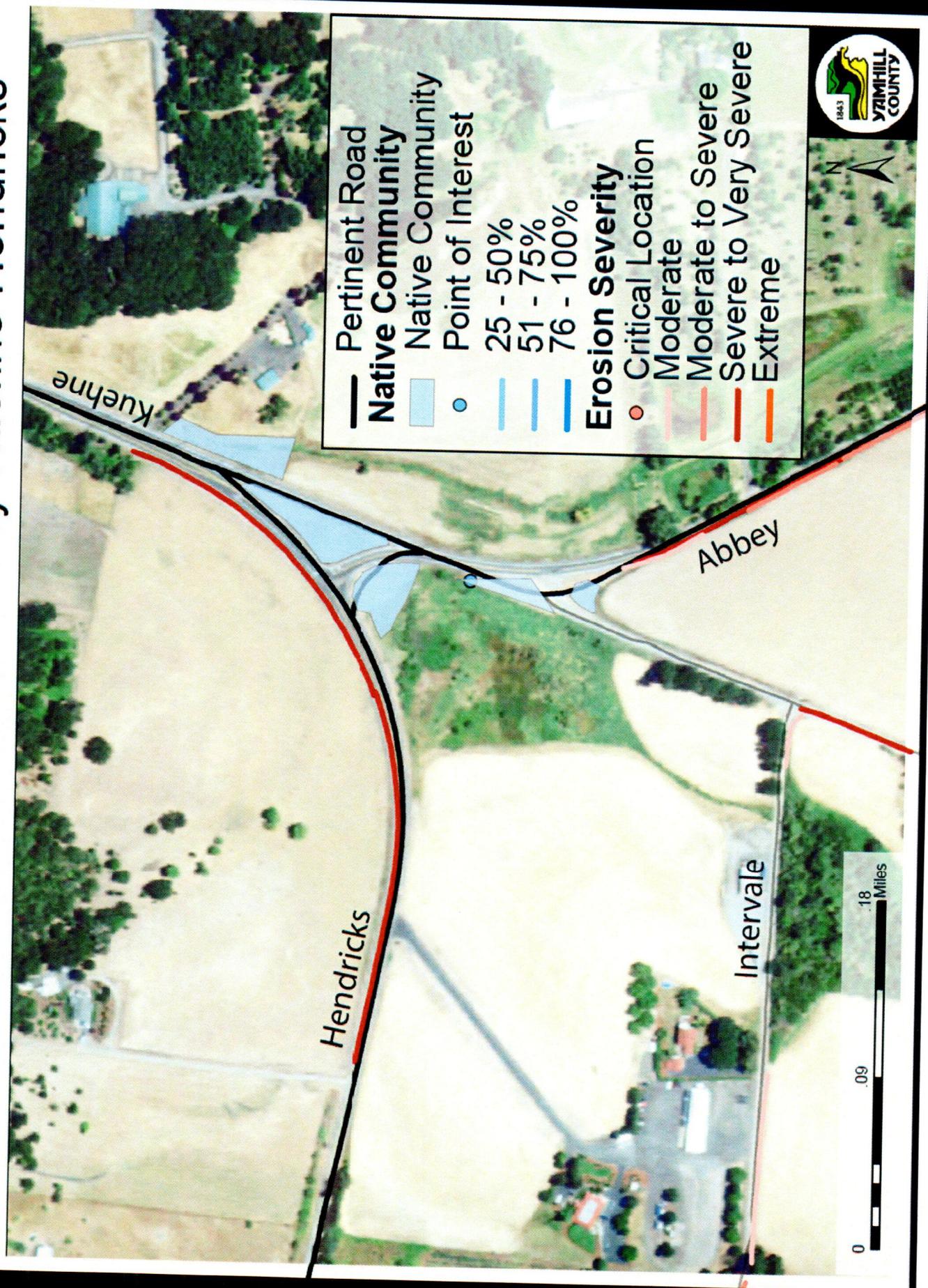


Optimal Vegetation
Alderman Rd
8-1-17

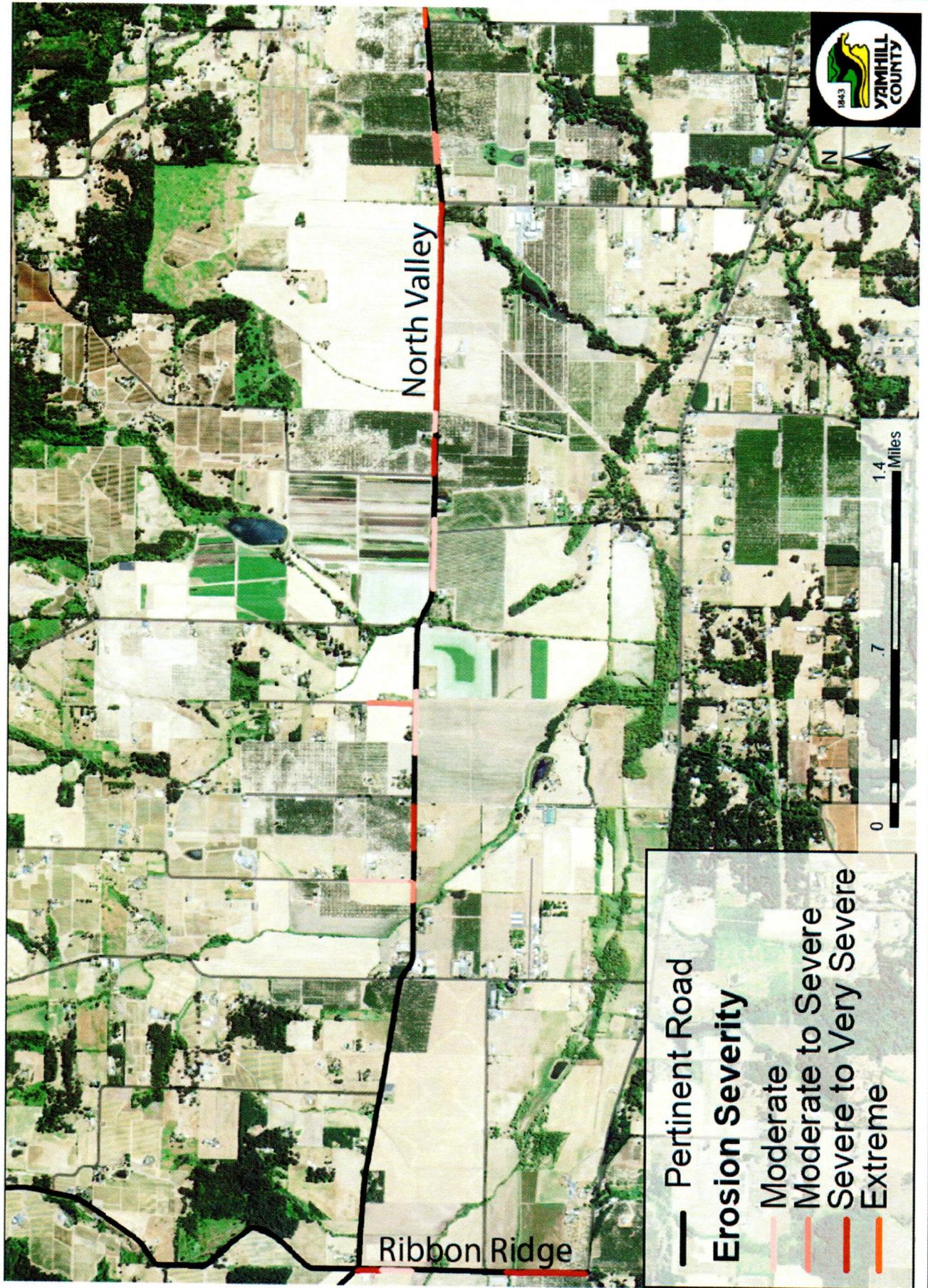
Optimal Vegetation
Alderman Rd
8-1-17



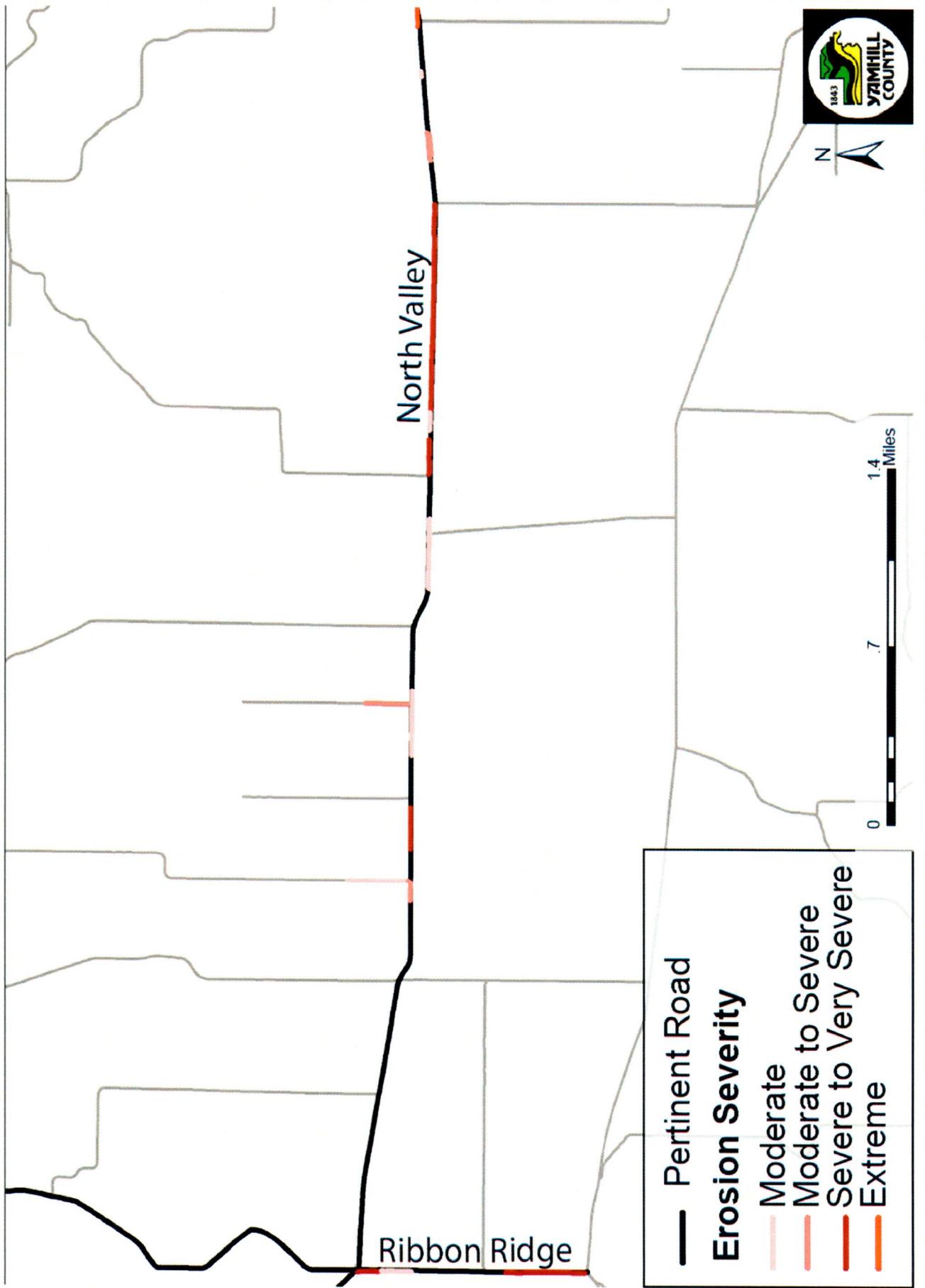
Native Plants & Erosion: Abbey-Kuehne-Hendricks



Erosion: North Valley and Ribbon Ridge



Erosion: North Valley and Ribbon Ridge

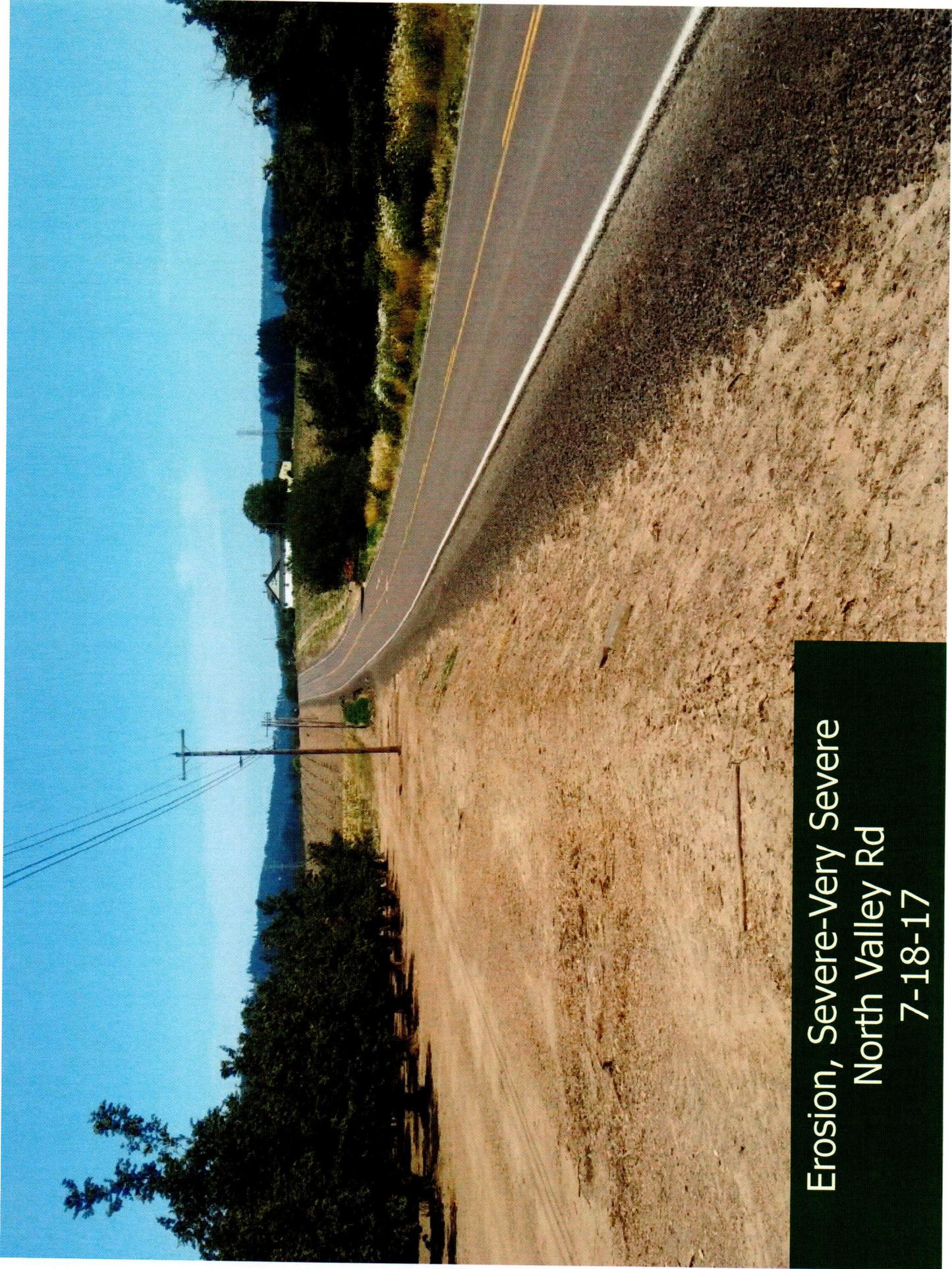




Erosion, Severe-Very Severe
North Valley Rd
7-18-17



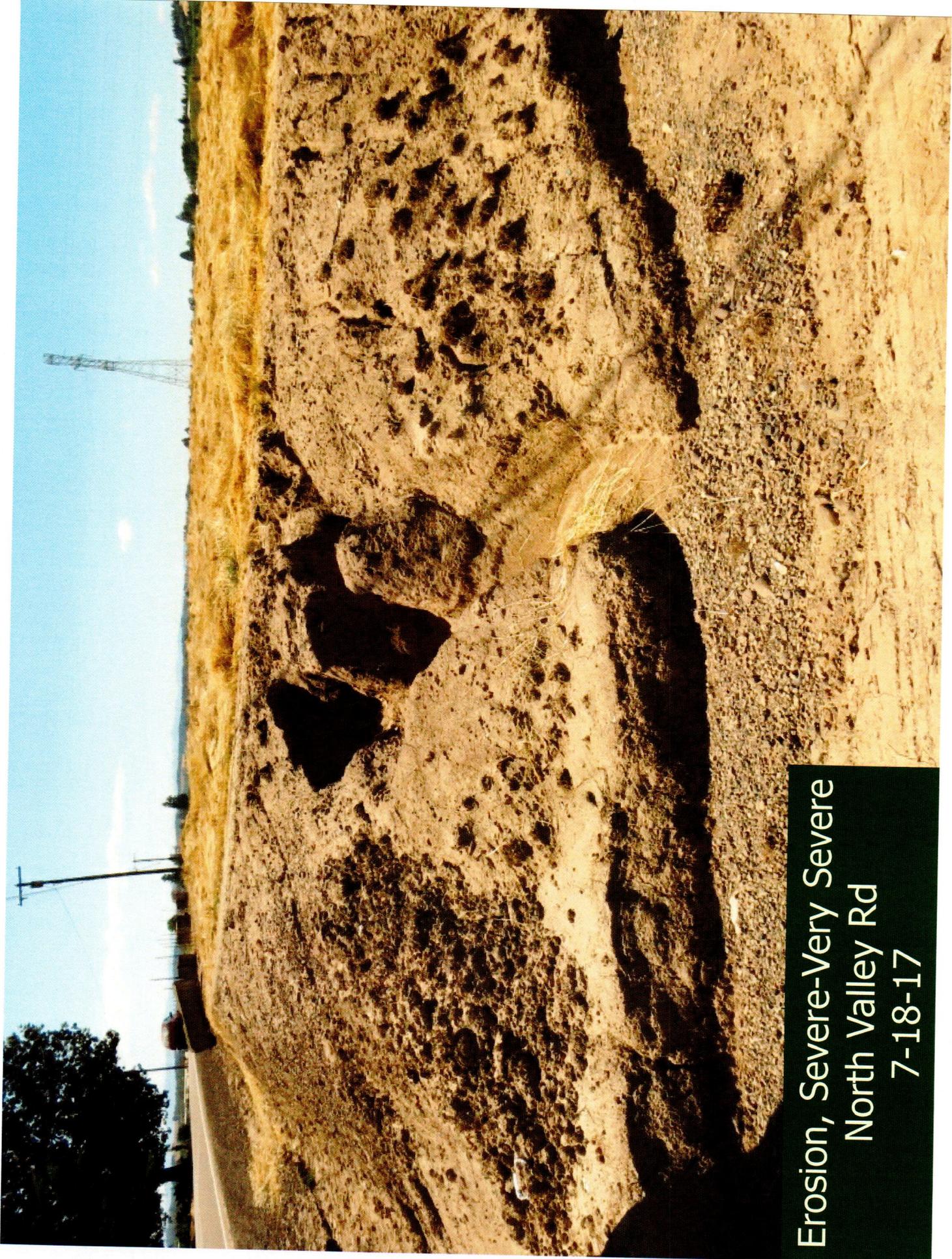
Erosion, Moderate
North Valley Rd
7-18-17



Erosion, Severe-Very Severe
North Valley Rd
7-18-17



Erosion, Severe-Very Severe
North Valley Rd
7-18-17



Erosion, Severe-Very Severe
North Valley Rd
7-18-17



Erosion, Severe-Very Severe
Ribbon Ridge Rd
7-19-17

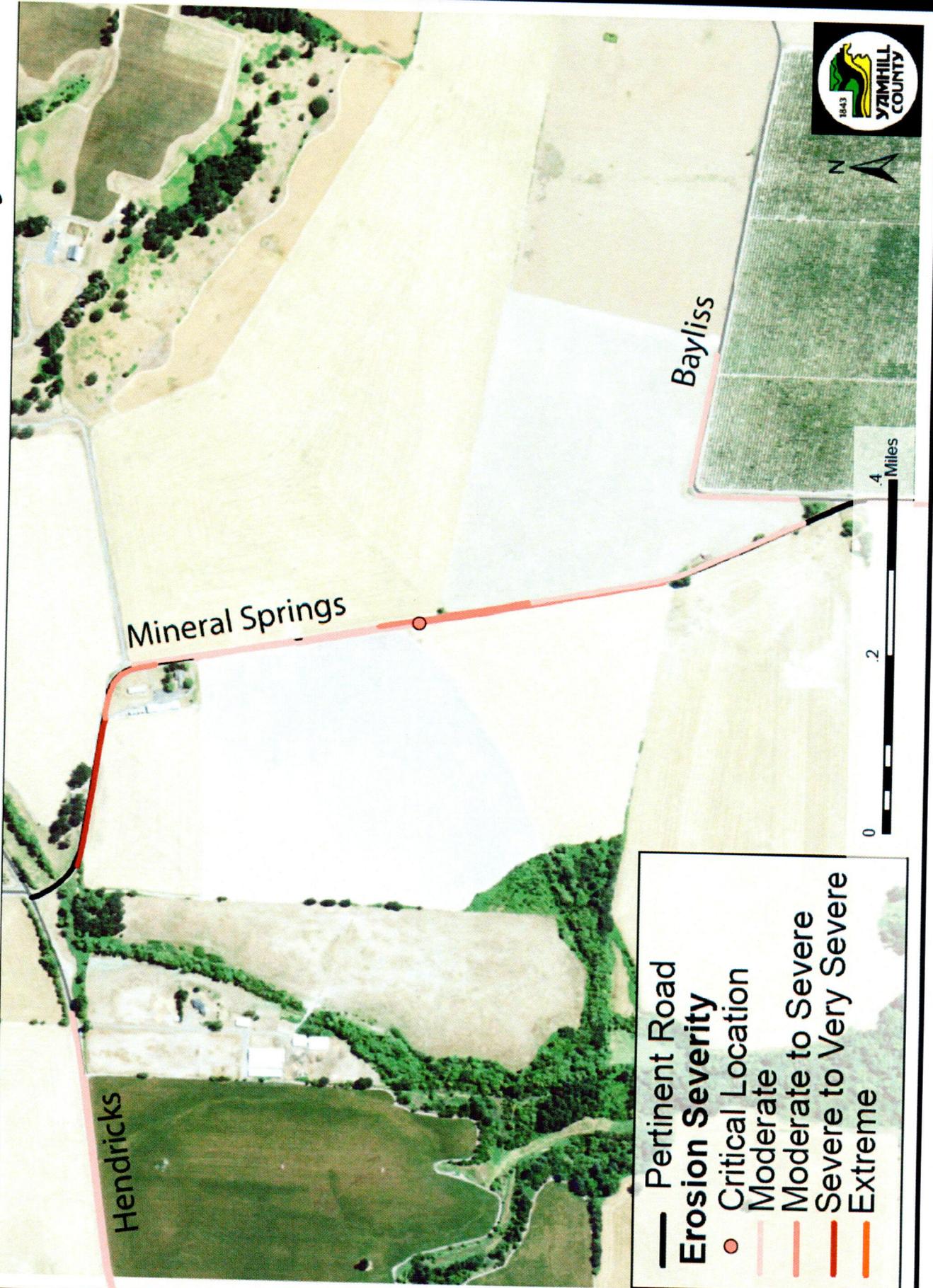
Analysis of Erosion



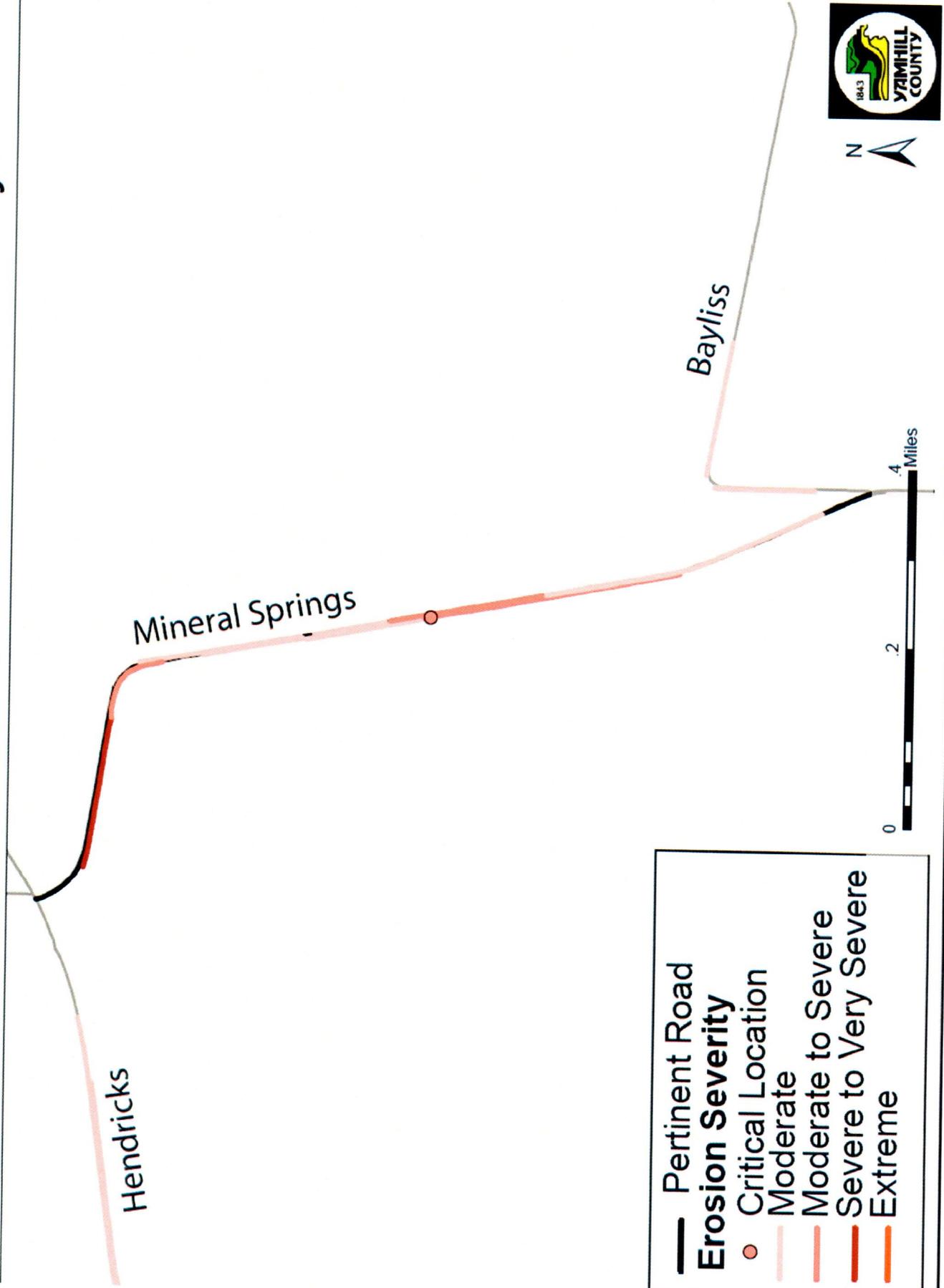
North Valley & Ribbon Ridge Roads

- Total Lane Miles of Road ~ 12
- Total Lane Miles of Erosion = 2.23
 - Moderate = .83
 - Moderate-Severe = .26
 - Severe-Extreme = 1.09
 - Extreme = .05

Erosion: Mineral Springs, Hendricks and Bayliss



Erosion: Mineral Springs, Hendricks and Bayliss



Erosion, Severe-Very Severe
Mineral Springs Rd
6-20-17





Optimal Vegetation

Kuykendall Rd

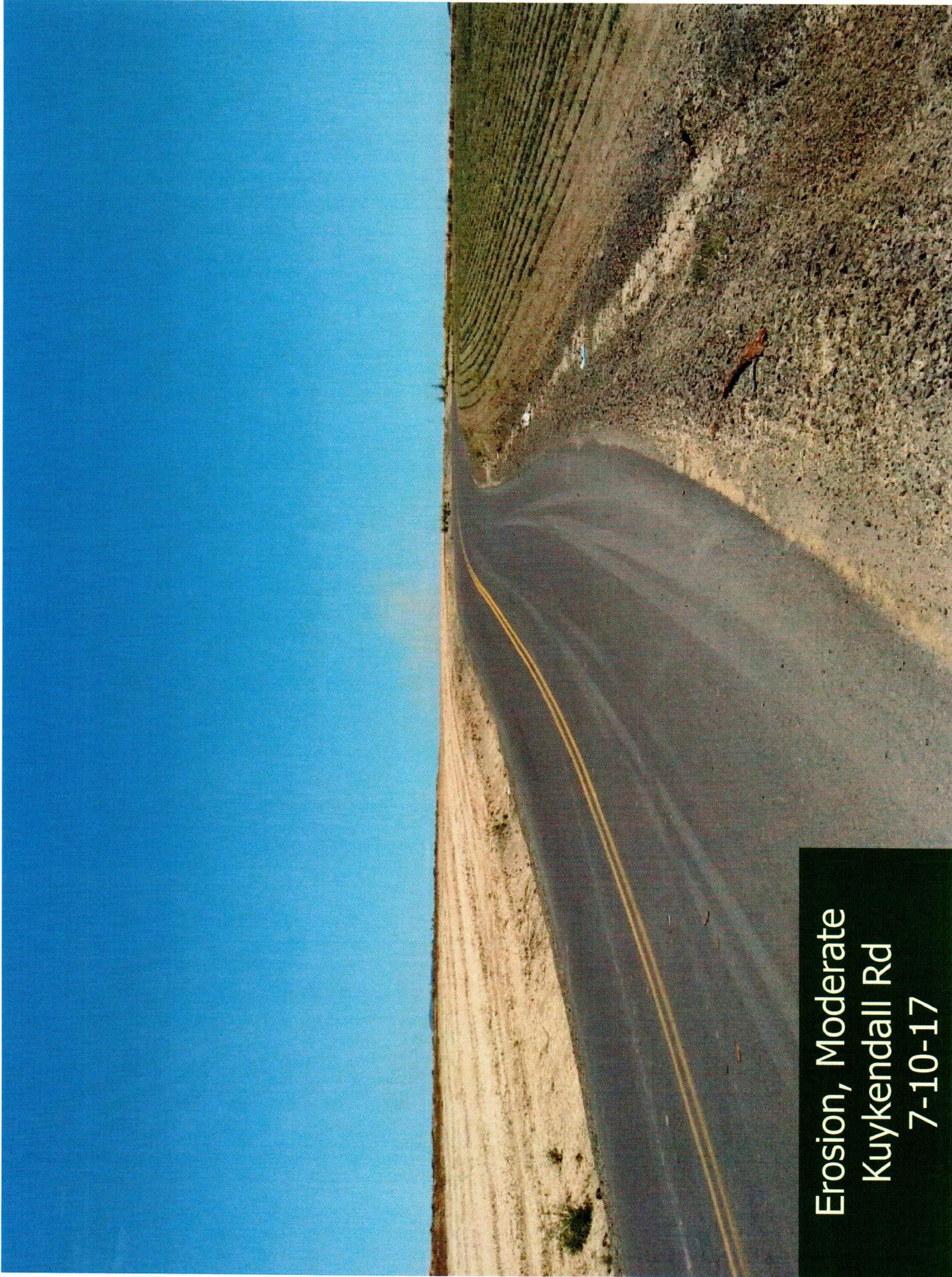
7-10-17



Erosion, Moderate-Severe

Kuykendall Rd

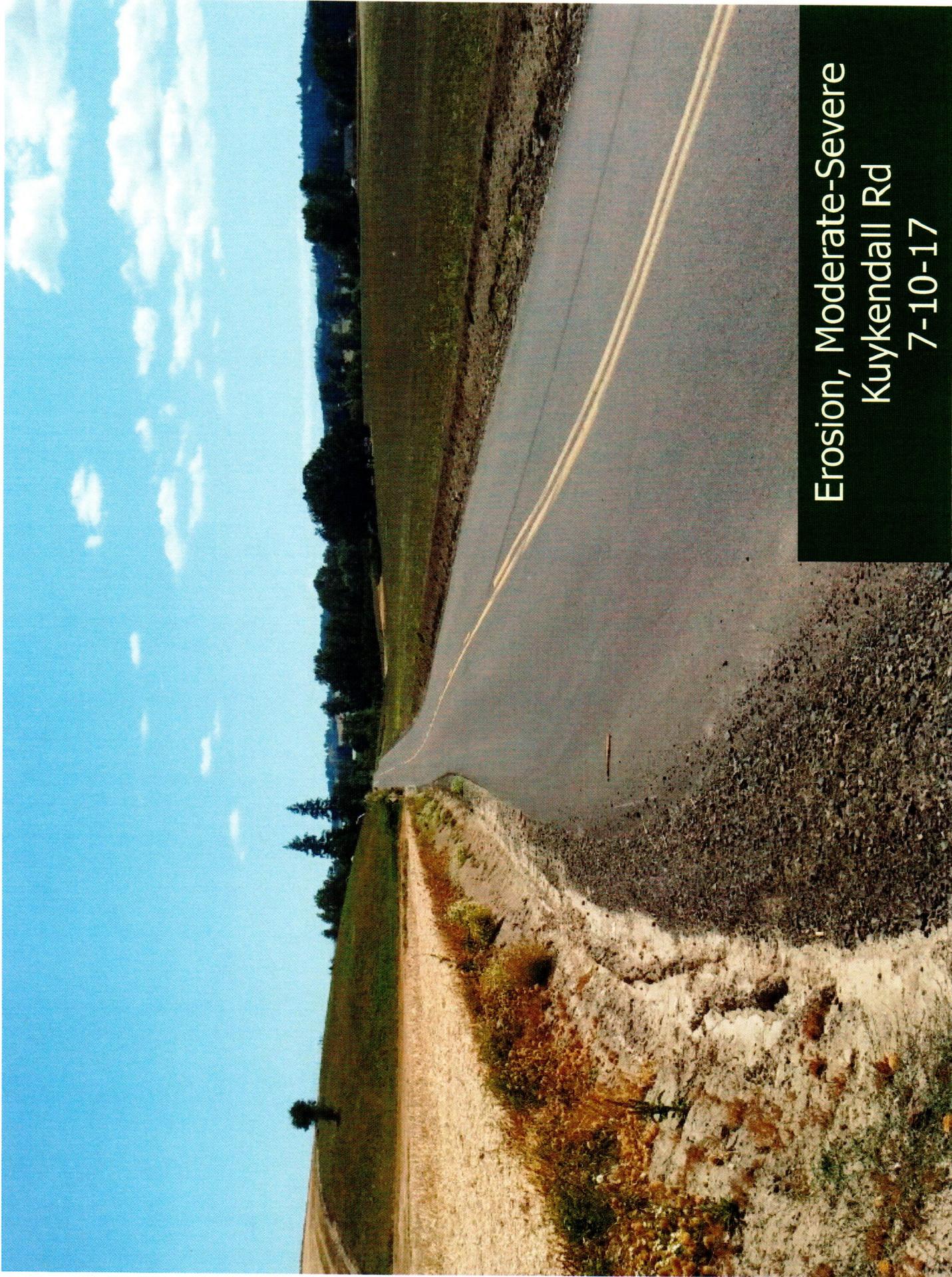
7-10-17



Erosion, Moderate
Kuykendall Rd
7-10-17



Erosion, Moderate-Severe
Kuykendall Rd
7-10-17



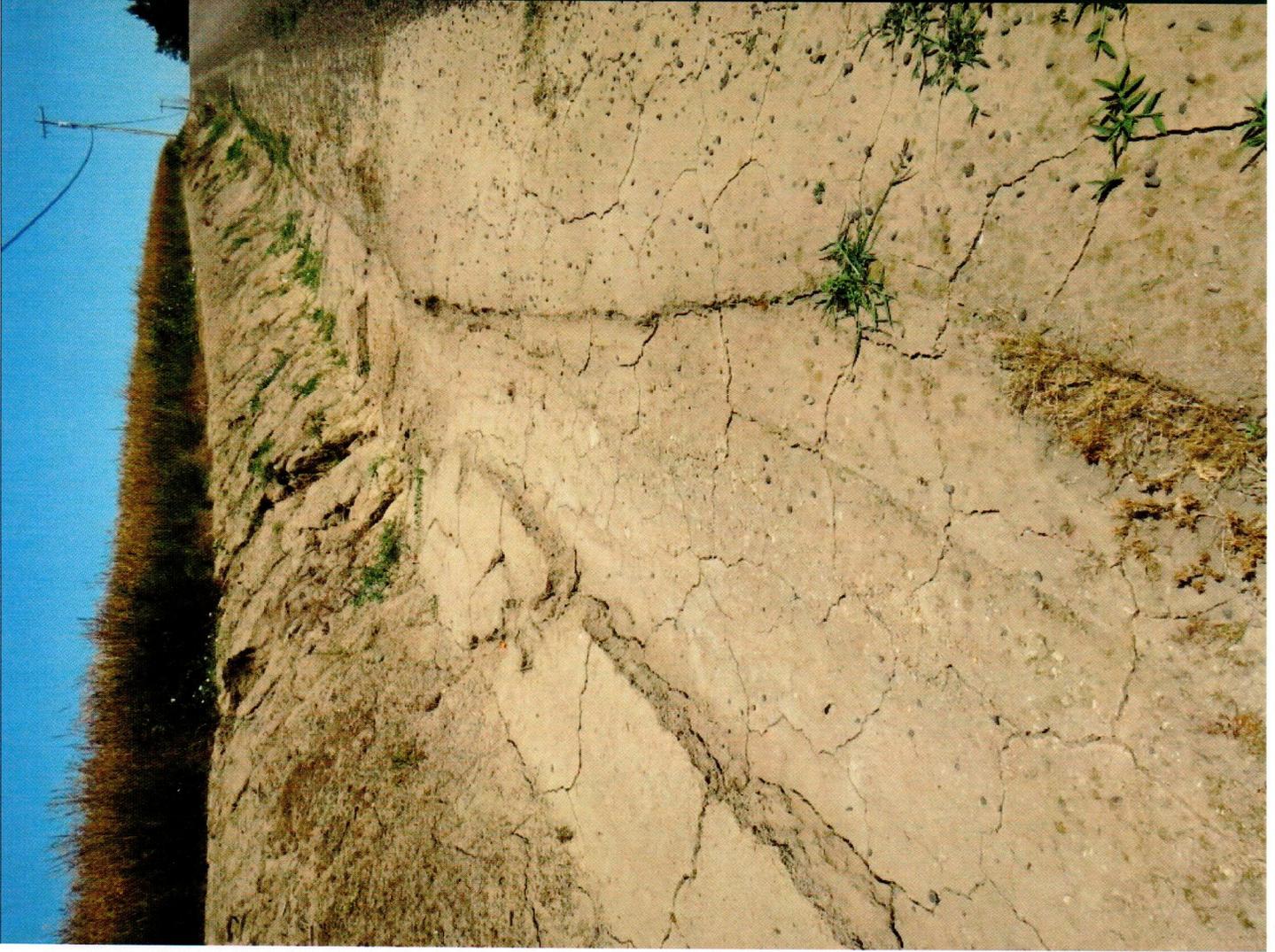
Erosion, Moderate-Severe
Kuykendall Rd
7-10-17



Erosion, Severe-Very Severe
Kuykendall Rd
7-10-17



Erosion, Severe-Very Severe
Kuykendall Rd
7-10-17



Erosion, Severe-Very Severe
Clay Pit Rd
7-10-17



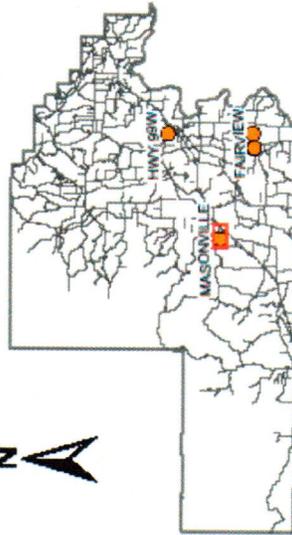
Erosion, Severe-Very Severe
Clay Pit Rd
7-10-17

Invasive Purple Loosestrife on Masonville Road



Legend

- Purple Loosestrife Points
- Yamhill County Road



Purple Loosestrife (*Lythrum salicaria*)

Created By: Declan Pizzino and Russell Barlow
for Yamhill County Public Works Department.

Credits: National Agriculture Imagery Program (NAIP) under contract for the United States Department of Agriculture (USDA) for the Farm Service Agency's (FSA) Oregon Imagery Framework Implementation Team.



August 3, 2017

Criteria for Mapping Invasives

- Highly invasive, limited distribution
- Within or near native plant areas
- Isolated populations, could invade clean adjacent land
- Impede sight distance, cover structures
- Large, unsightly infestations

Invasive Garlic Mustard in Yamhill County

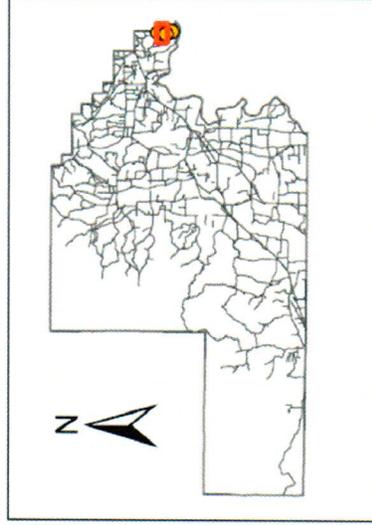


Legend

-  Garlic Mustard Points
-  Garlic Mustard Lines
-  Garlic Mustard Area
-  Yamhill County Road



Garlic Mustard (*Alliaria petiolata*)



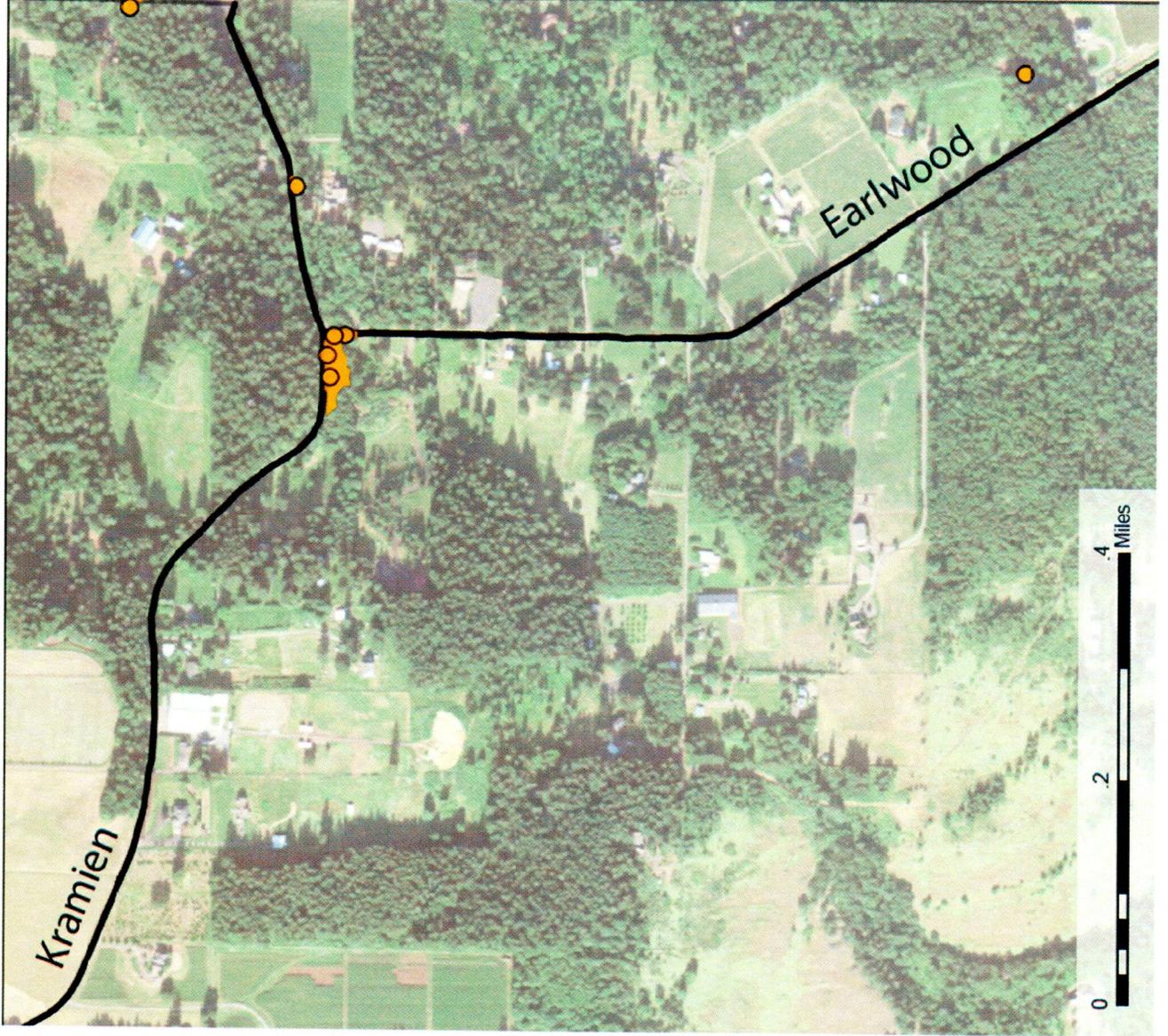
Created By: Declan Pizzino and Russell Barlow
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September 7, 2017

Invasive Garlic Mustard: Kramien and Earlwood



— Pertinent Road

Garlic Mustard

- Significant Area
- Invasive Population
- Isolated Habitat





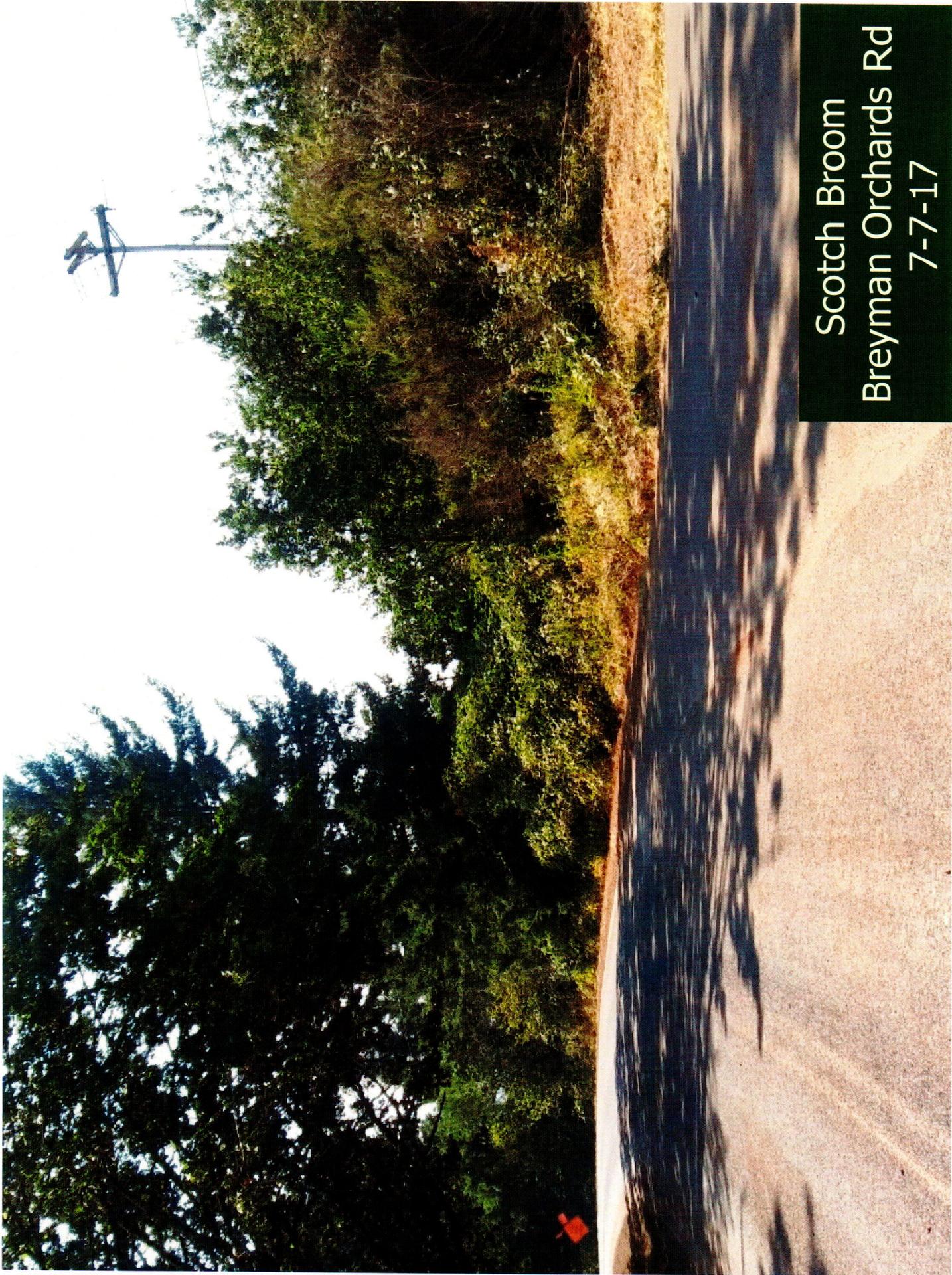
Garlic Mustard
Kramien Rd
7-17-17 & 4-30-17



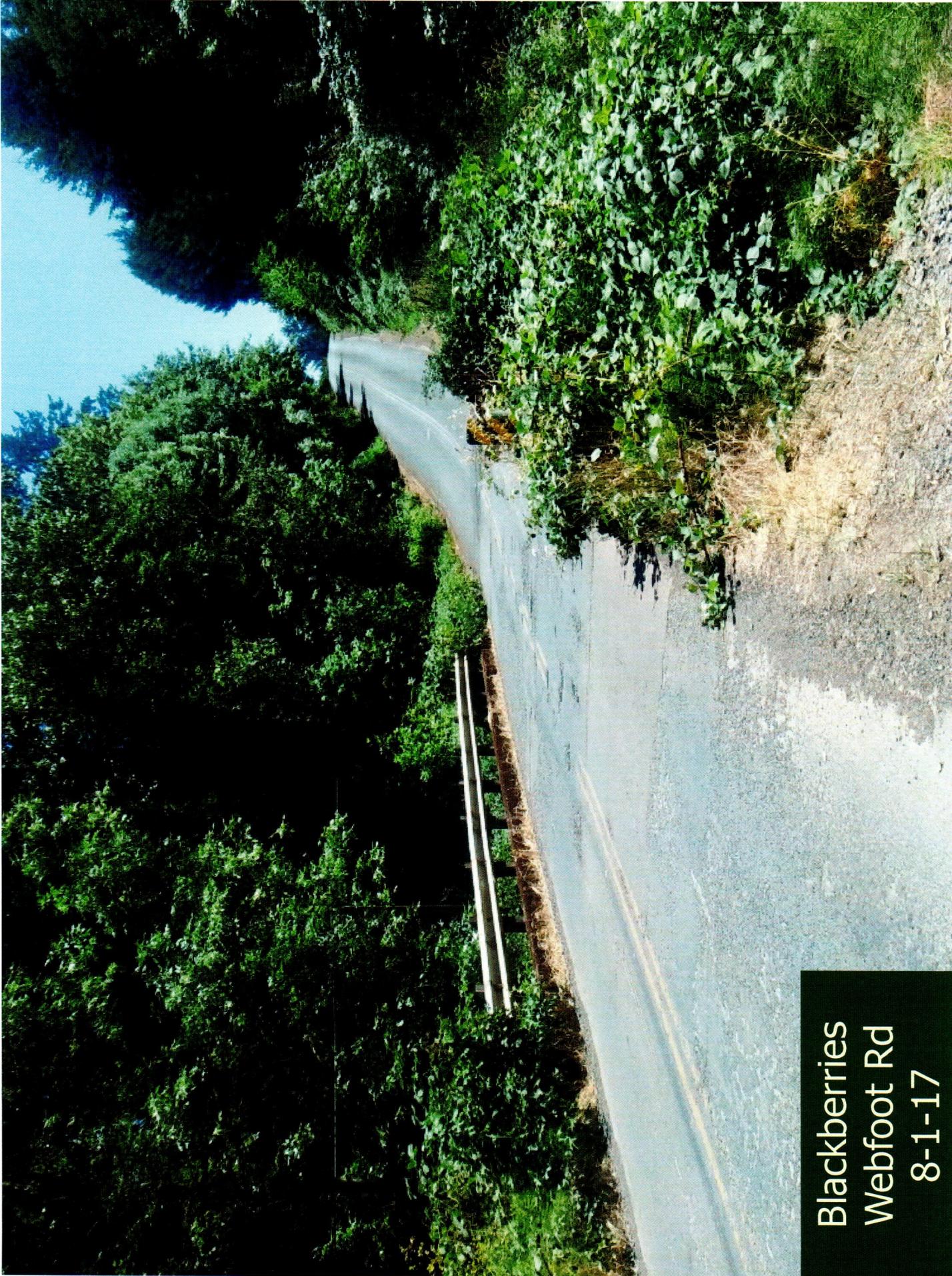
Scotch Broom
Hacker Rd HCP
7-7-17



Scotch Broom
Breyman Orchards Rd
7-7-17



Scotch Broom
Breyman Orchards Rd
7-7-17



Blackberries
Webfoot Rd
8-1-17

Criteria for Mapping Erosion

- Mostly bare of vegetation
- Significant road slope, bank slope and/or length of slope
- Gully forming in the ditch or backslope
- Significant soil movement, slumps
- Undercut asphalt, road/culvert damage

GIS Roadside Vegetation Inventory



**Russell Barlow
Declan Pizzino
Susan Aldrich-Markham**

Tasks for the GIS Interns



- Revise the database in ArcMap
- Optimize the operation of ArcPad on the Trimble GPS for data collection
- Collect data & photos on roads selected to illustrate veg management issues
- Create PDF maps for Public Works
- Present Vegetation Inventory results

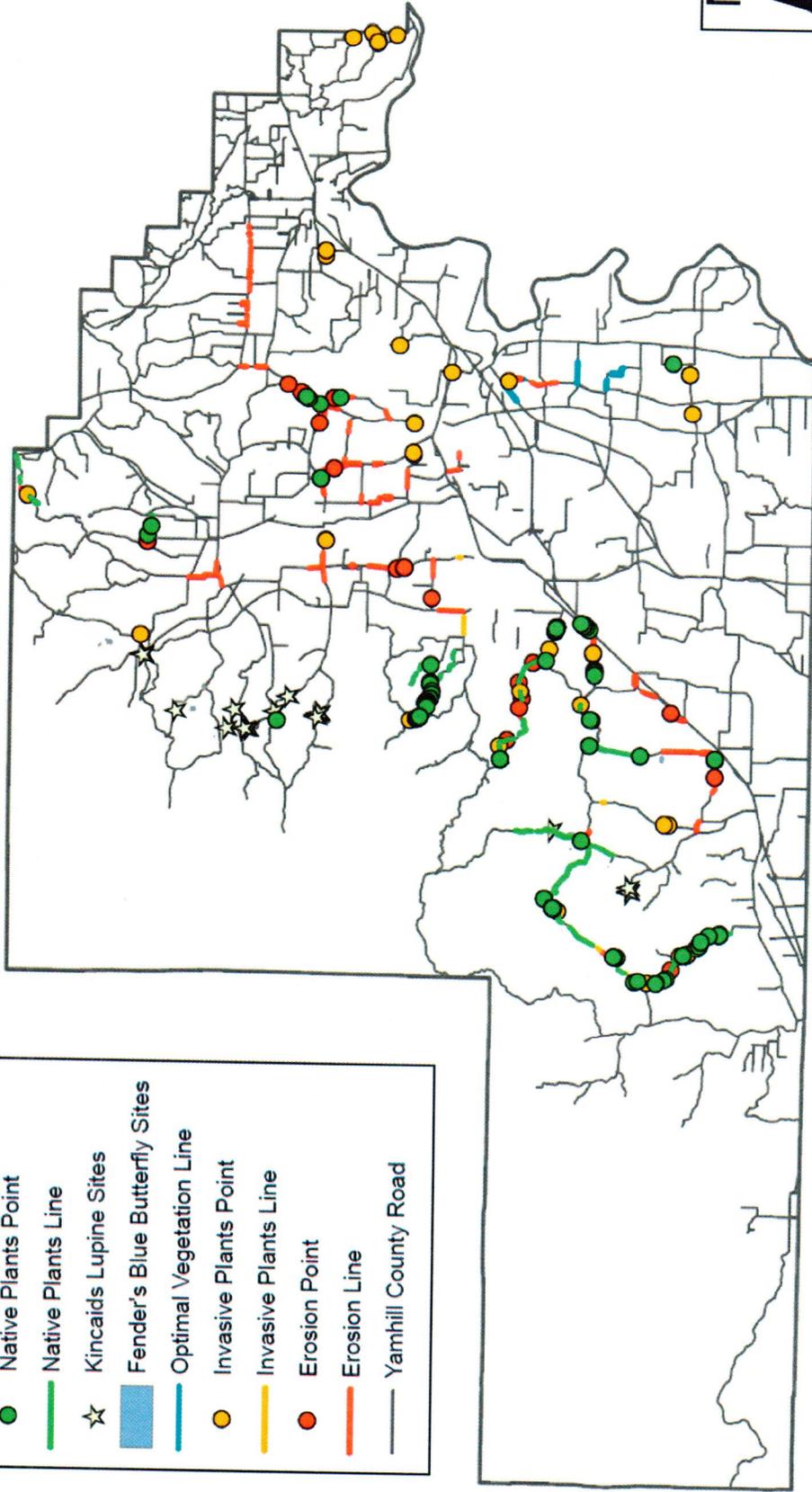
Issues in Roadside Veg Mgmt



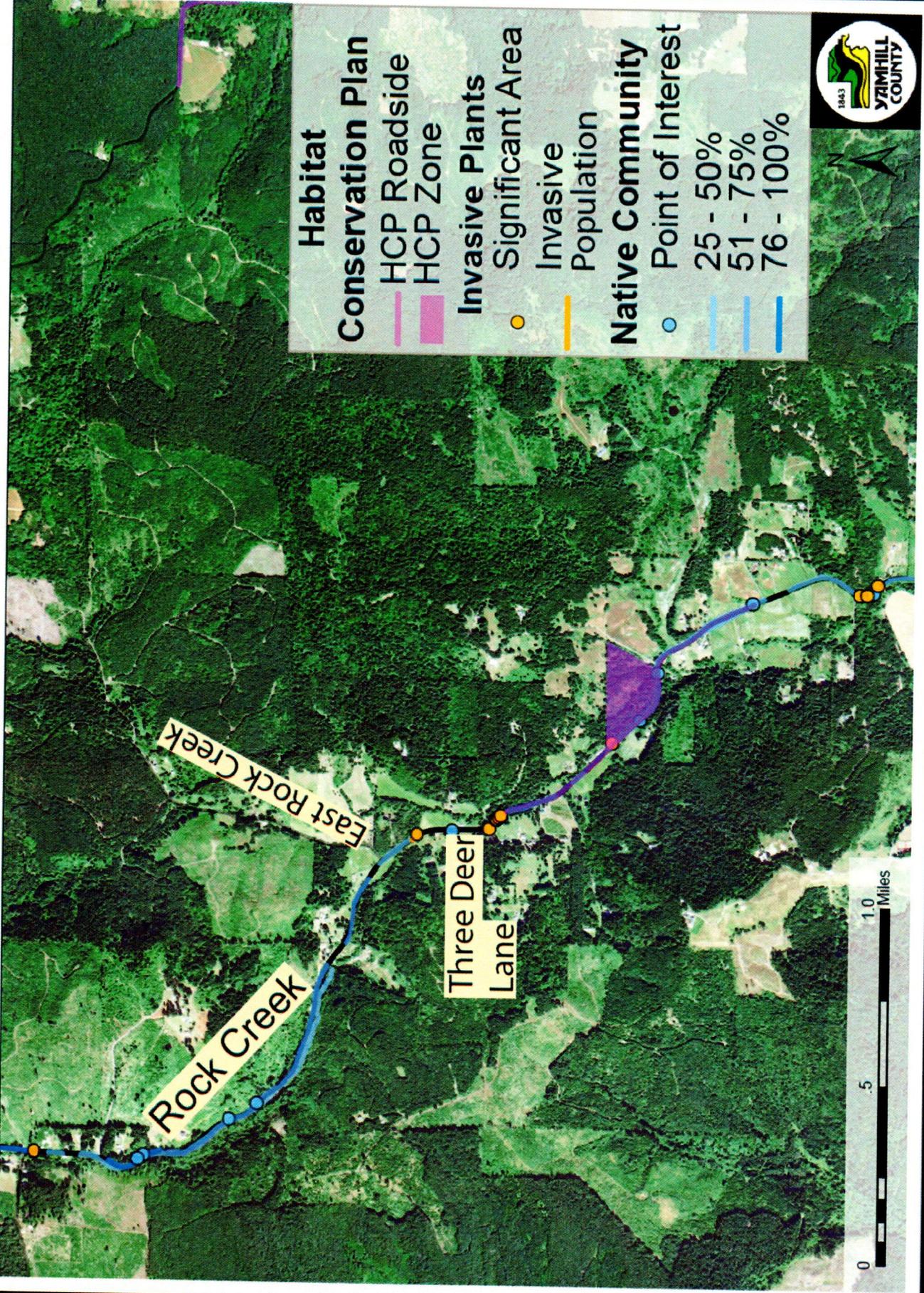
- Dangerous areas for vehicles
- No vegetation & severe erosion
- Invasive plant populations to control
- Native plant populations of significant species & healthy mixed communities to protect

Yamhill County Roadside Vegetation Inventory

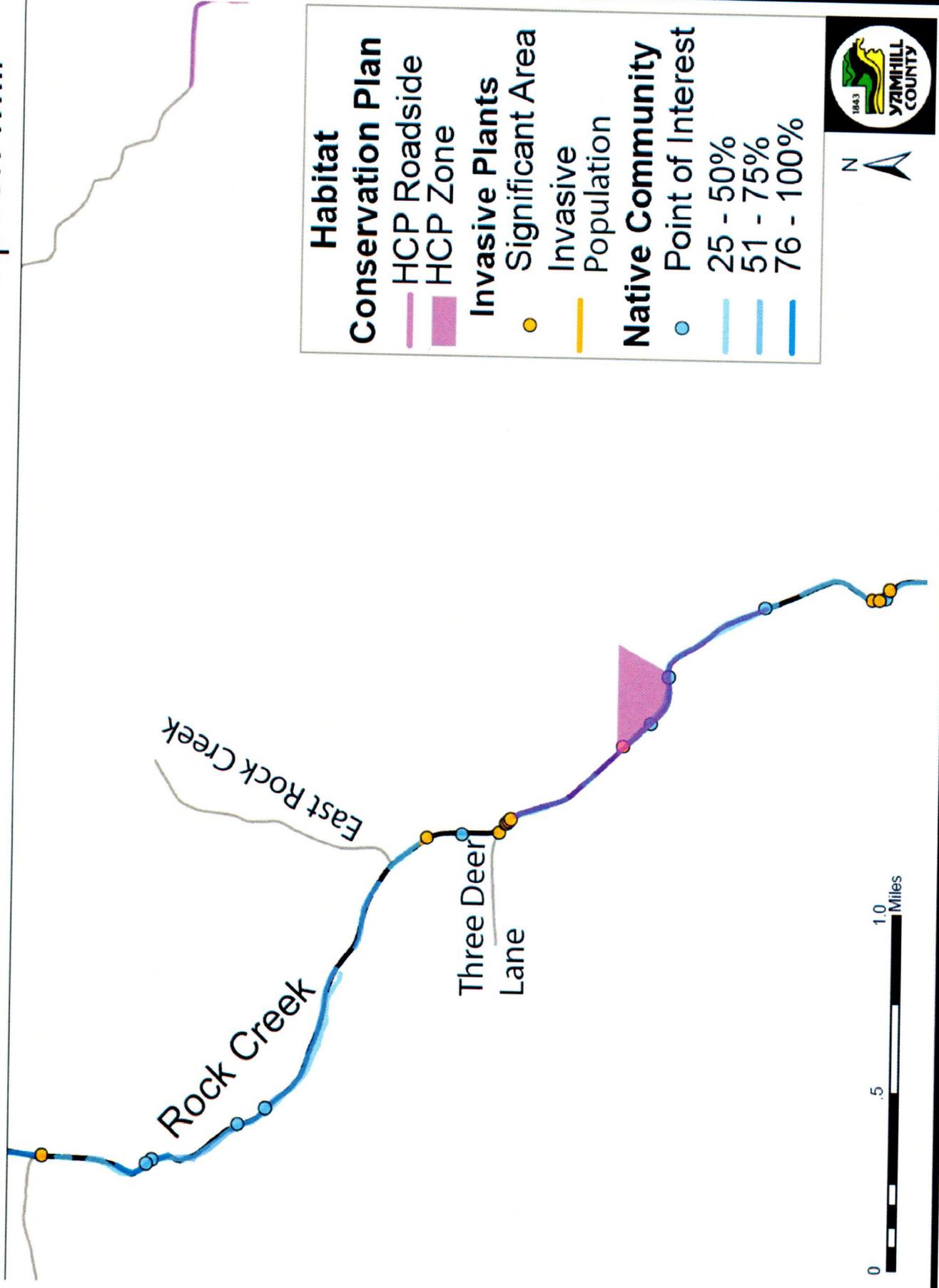
August 2017



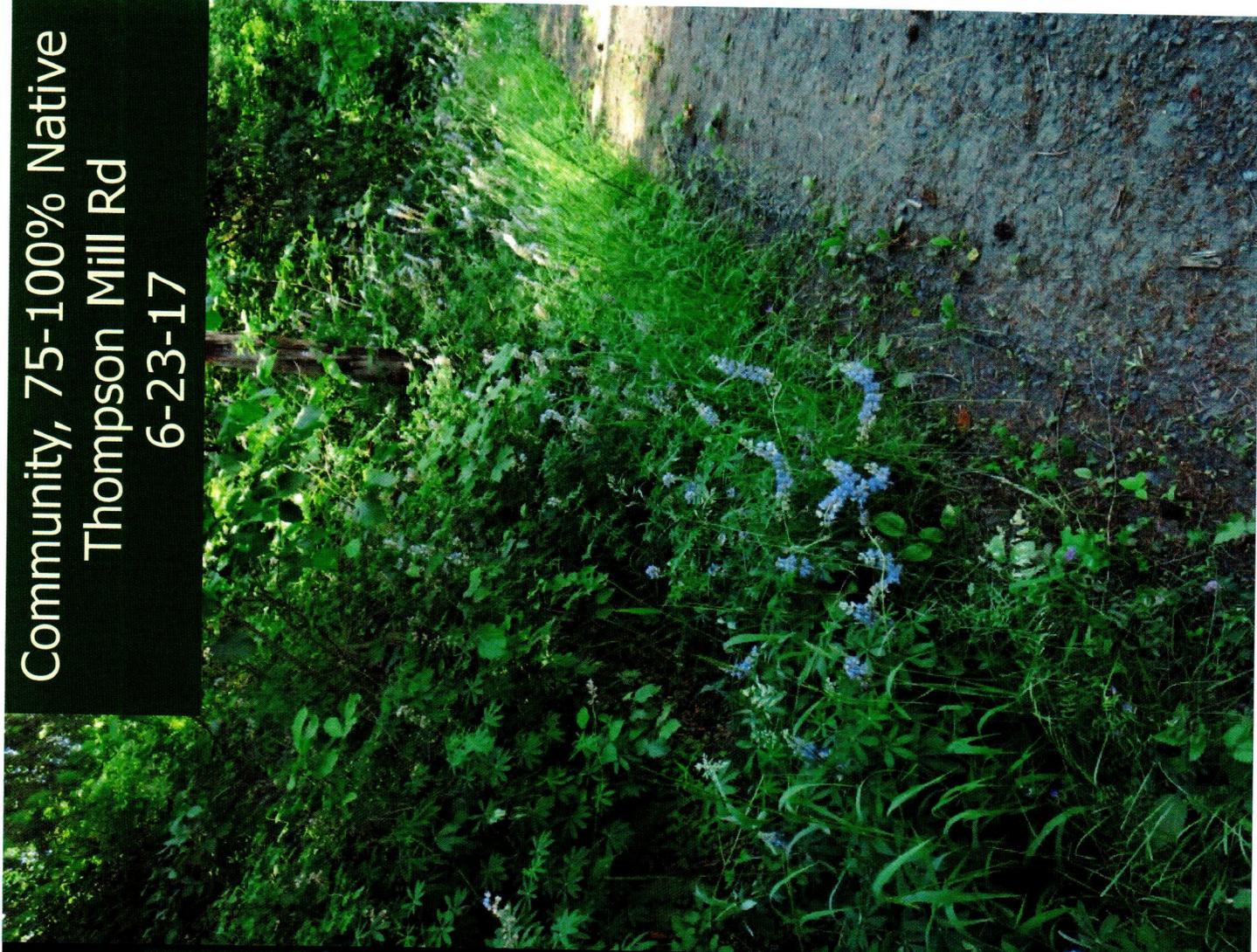
Natives & Invasives: S. Rock Creek & Thompson Mill



Natives & Invasives: S. Rock Creek & Thompson Mill



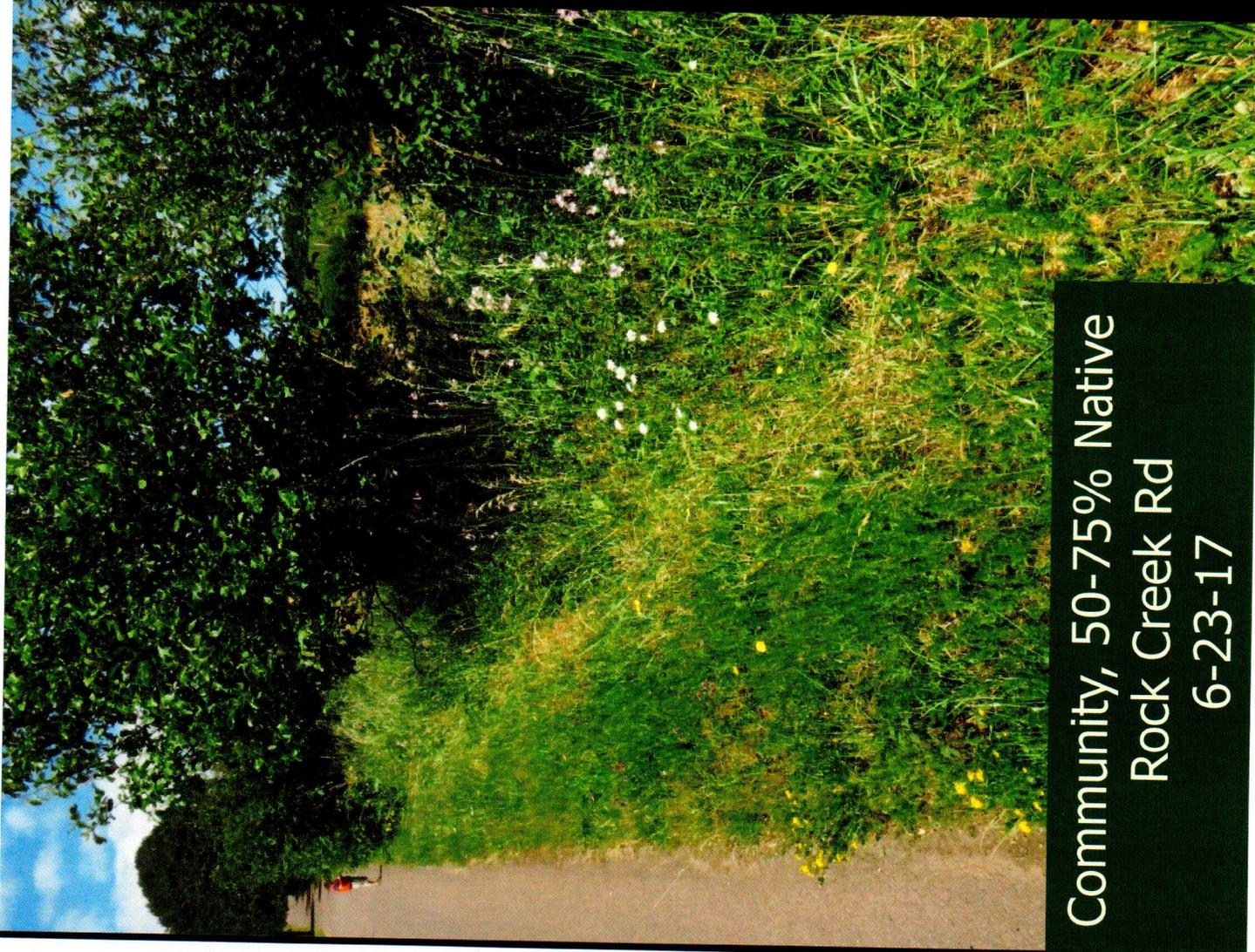
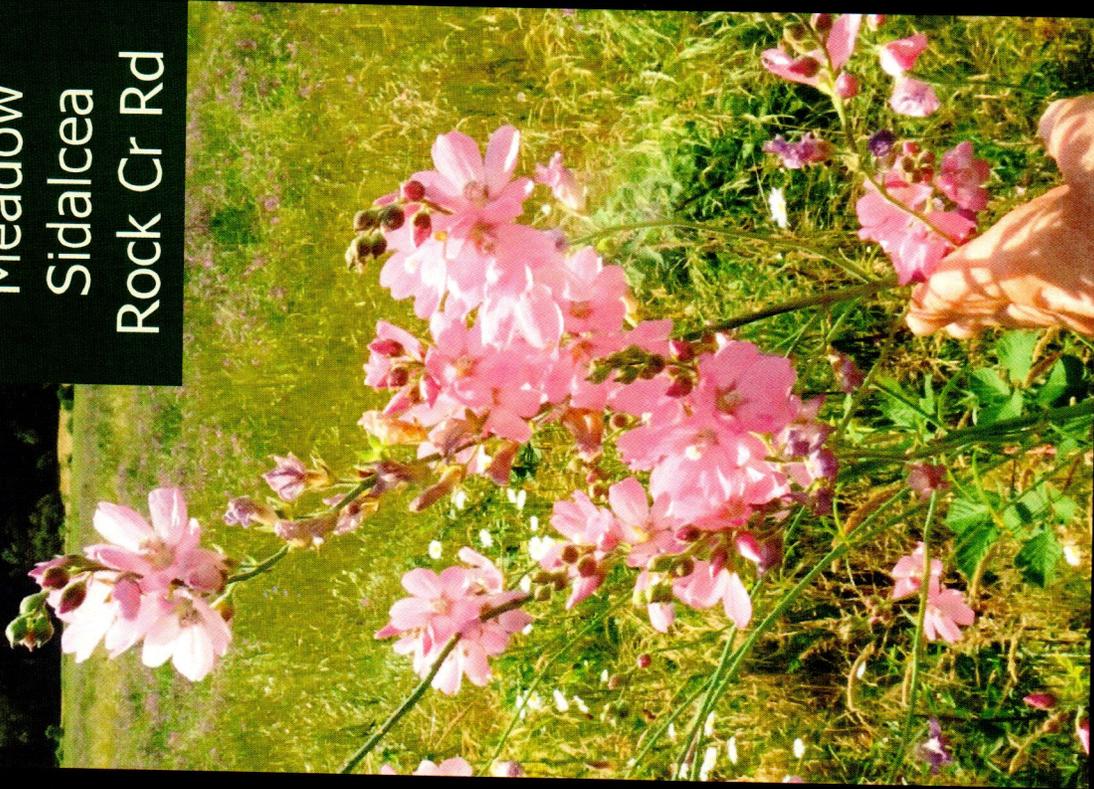
Community, 75-100% Native
Thompson Mill Rd
6-23-17



Lupine
Thompson Mill Rd



Meadow
Sidalcea
Rock Cr Rd



Community, 50-75% Native
Rock Creek Rd
6-23-17



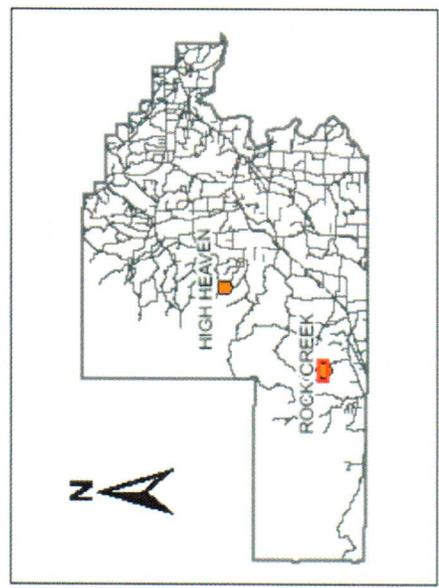
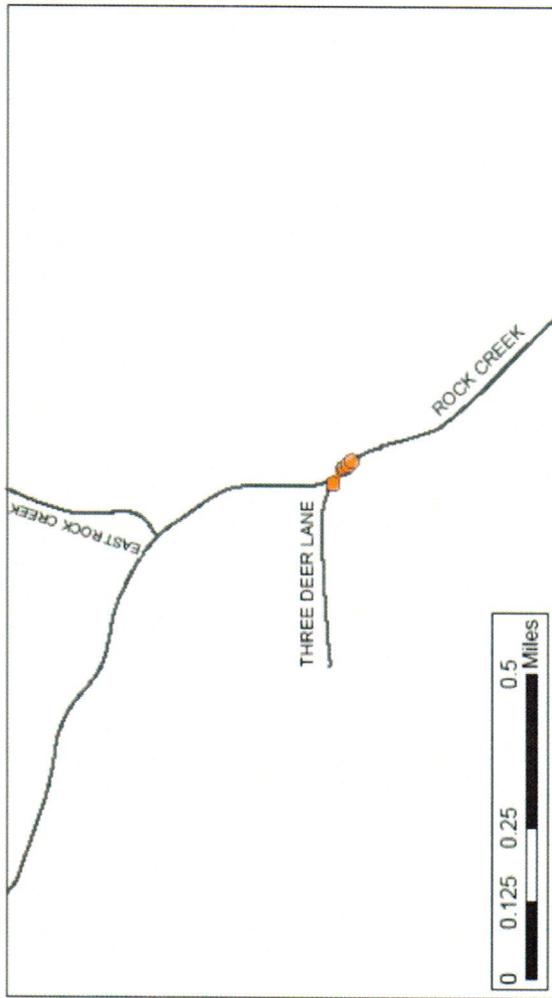
Clarkia amoena
Rock Creek Rd
6-27-17



Variegated Reed Canarygrass
or Ribbongrass
Rock Creek Rd
6-23-17



Invasive Variegated Reed Canarygrass on Rock Creek Road



Legend

- Variegated Reed Canarygrass Points
- Variegated Reed Canarygrass Lines
- Yamhill County Road



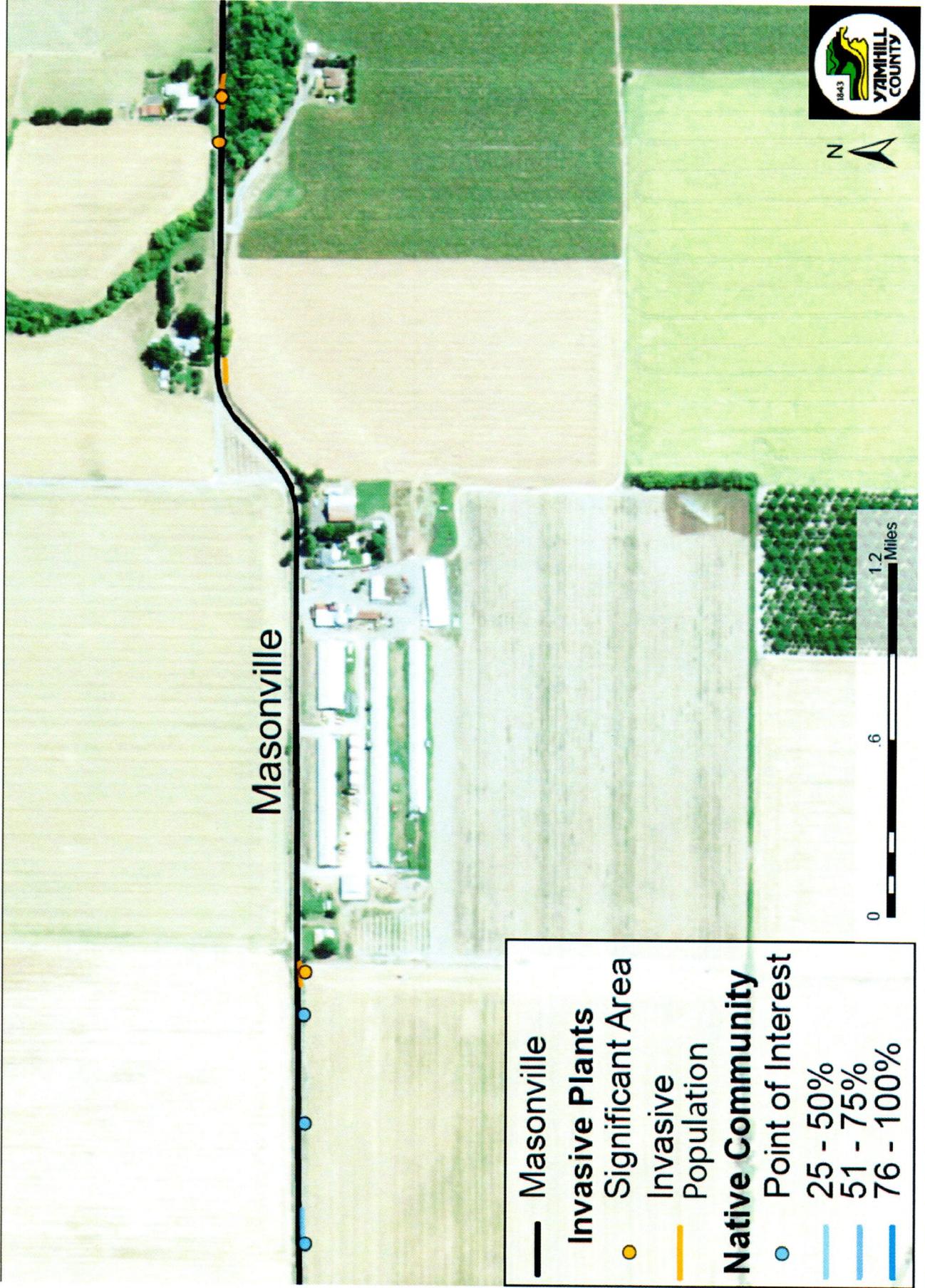
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August 9, 2017

Native & Invasive Plants: East Masonville





Milkweed
Masonville Rd
6-26-17