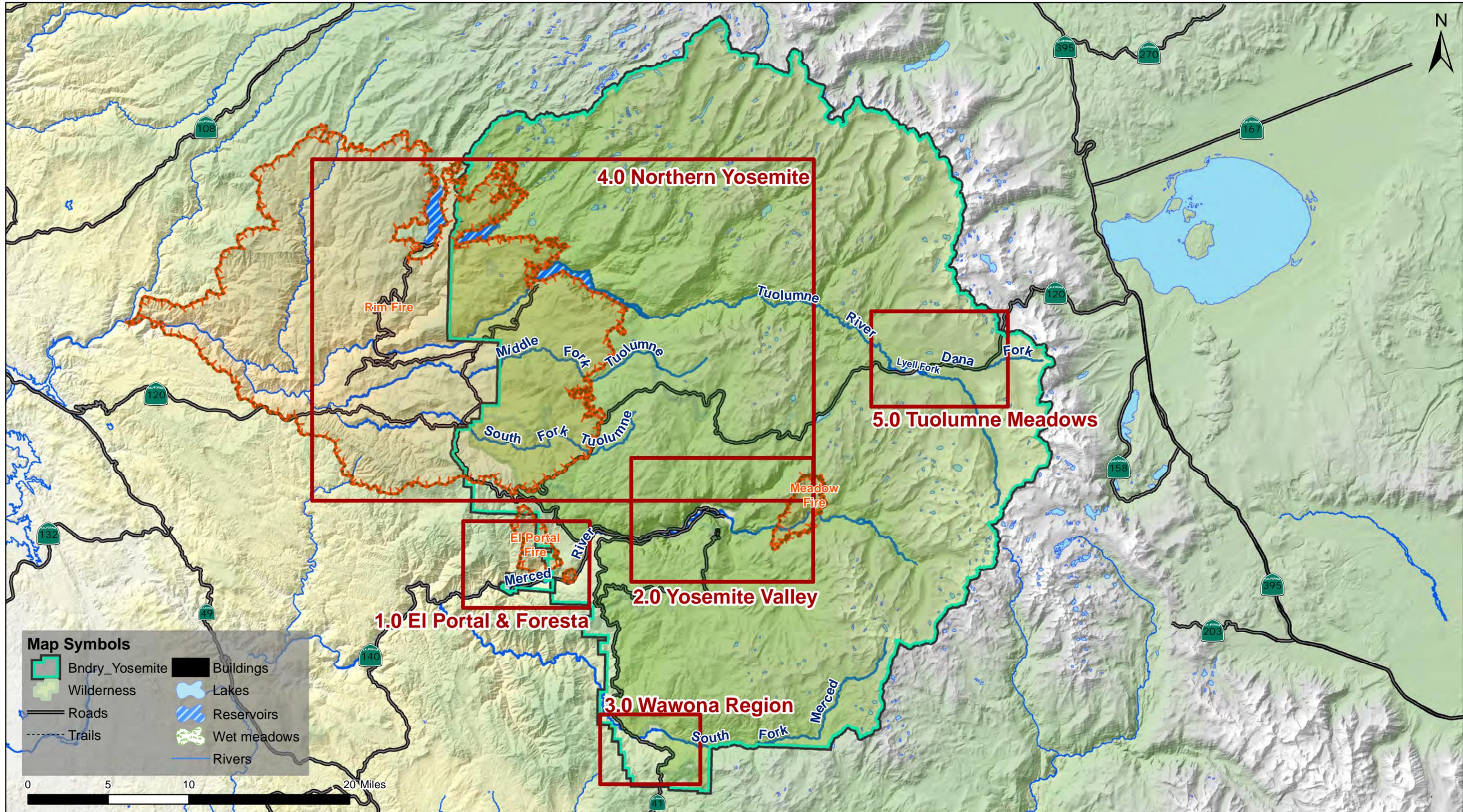


# 2015 Invasive Species Work Plan

## 0.0 Park Overview

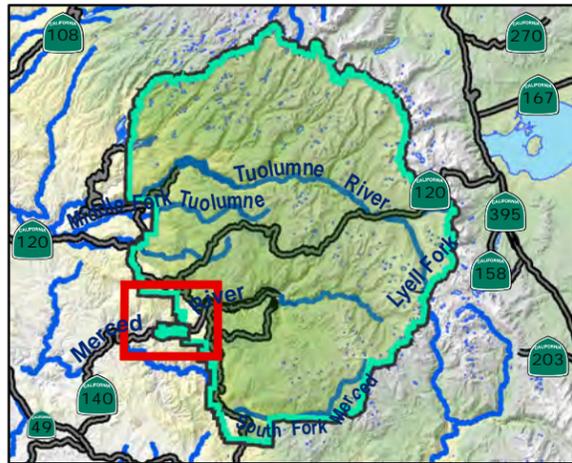
Yosemite National Park  
Resources Management and Science  
U.S. Department of the Interior



# 2015 Invasive Species Work Plan

## 1.0 El Portal & Foresta

Yosemite National Park  
Resources Management and Science  
U.S. Department of the Interior

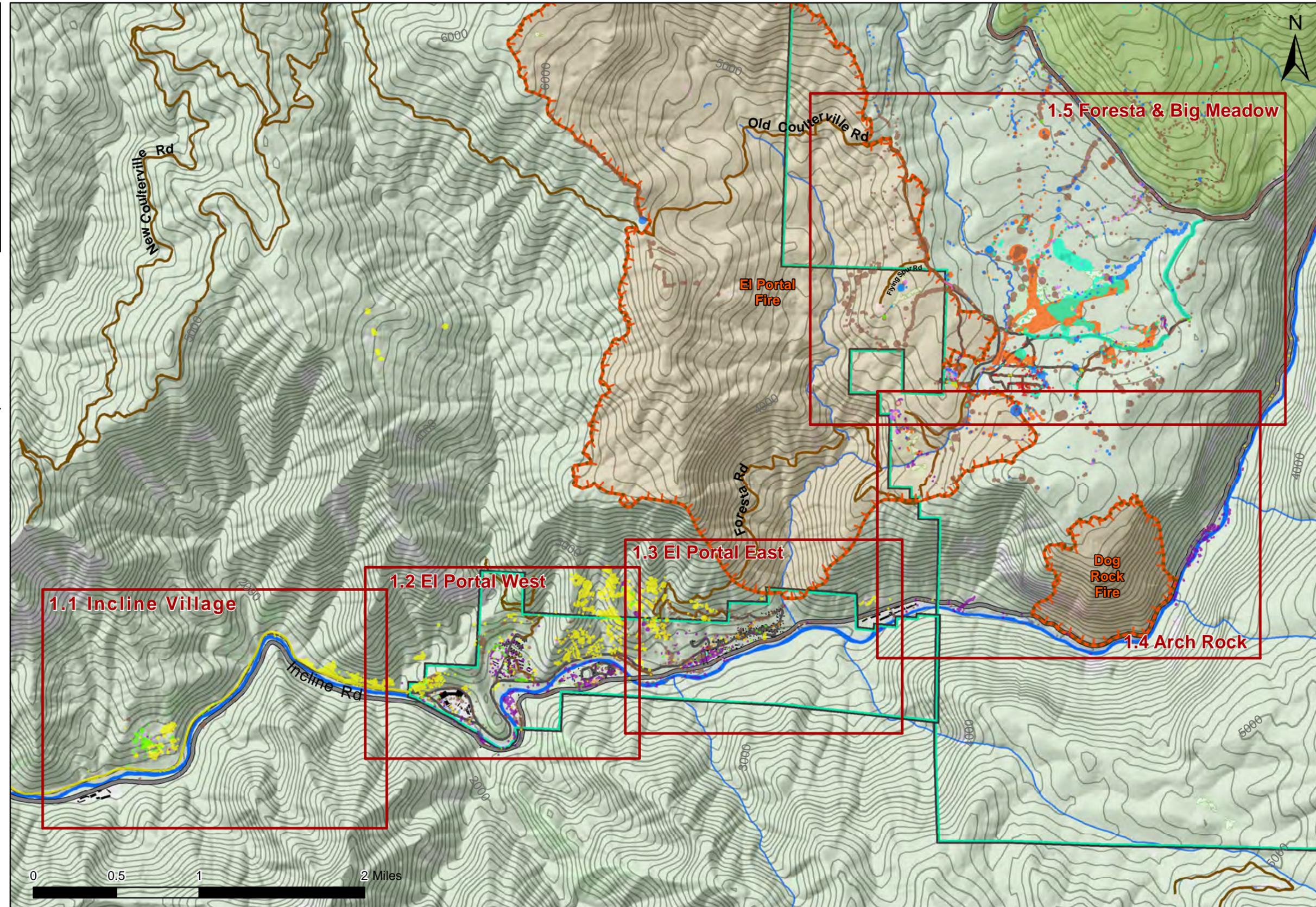


### Map Symbols

- |                 |             |
|-----------------|-------------|
| Park Boundary   | Buildings   |
| Wilderness      | Lakes       |
| Fire Perimeters | Reservoirs  |
| Roads           | Wet meadows |
| Trails          | Rivers      |

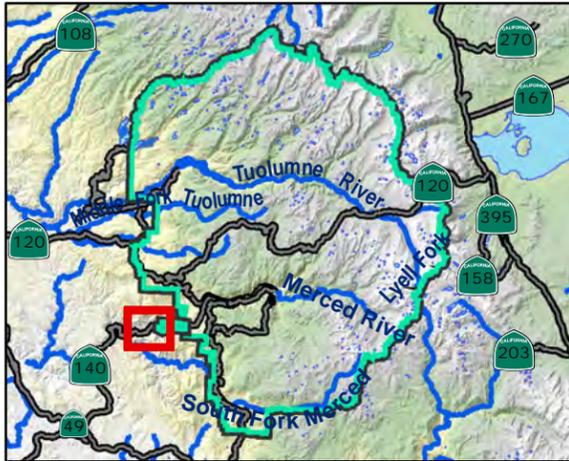
### Invasive Plants

- Early Detection Species
- Lower Priority Species
- Blackberry
- Black locust
- Broom Species
- Bull thistle
- Common mullein
- Dandelion
- Hops
- Klamathweed
- Oxeye daisy
- Spotted knapweed
- Velvet grass
- Yellow star-thistle



# 2015 Invasive Species Work Plan

## 1.1 Incline Village



### Map Symbols

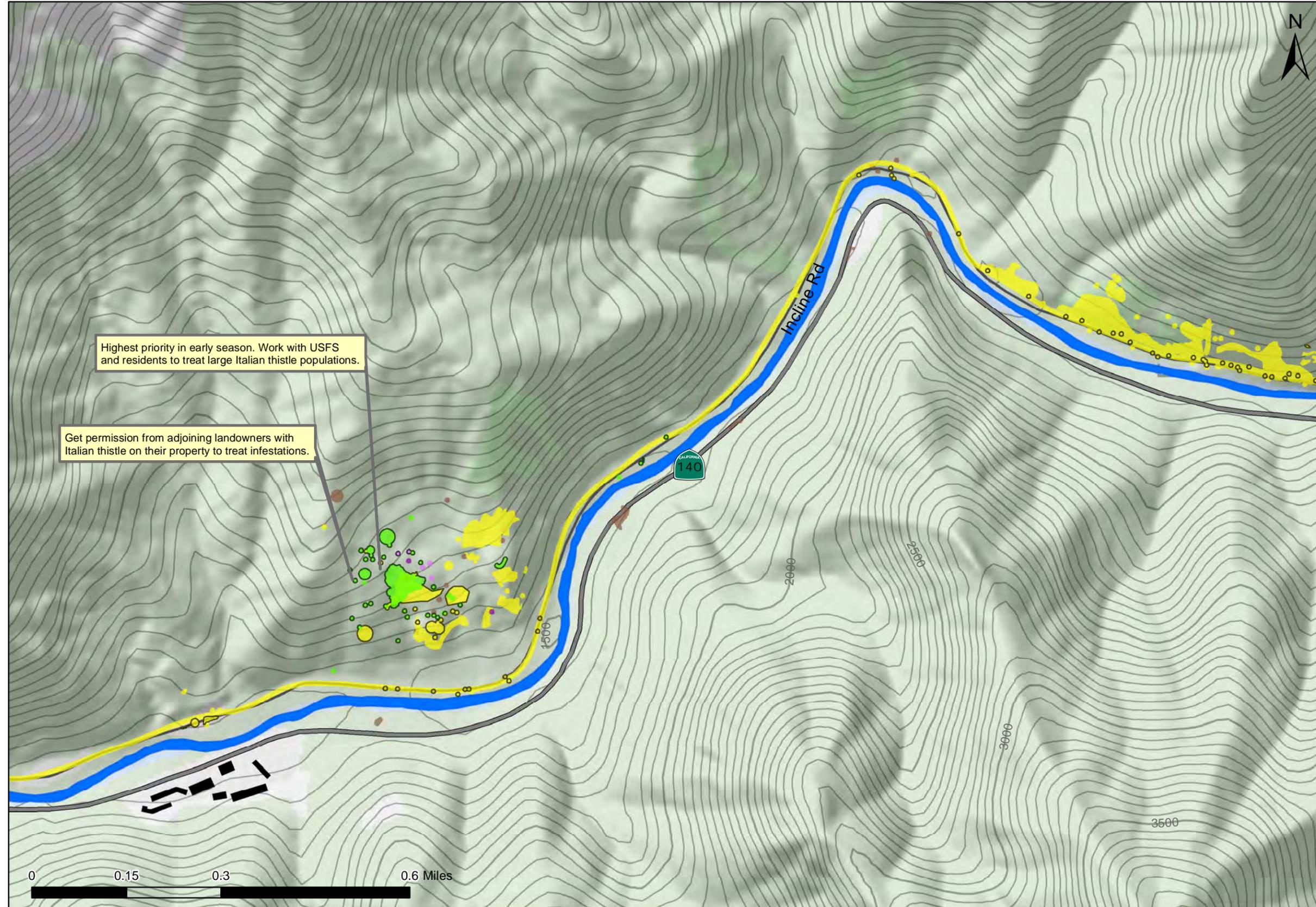
- |                 |             |
|-----------------|-------------|
| Park Boundary   | Buildings   |
| Wilderness      | Lakes       |
| Fire Perimeters | Reservoirs  |
| Roads           | Wet meadows |
| Trails          | Rivers      |

### Invasive Treatments

- Treated in 2014   Treatment Studies

### Invasive Plants

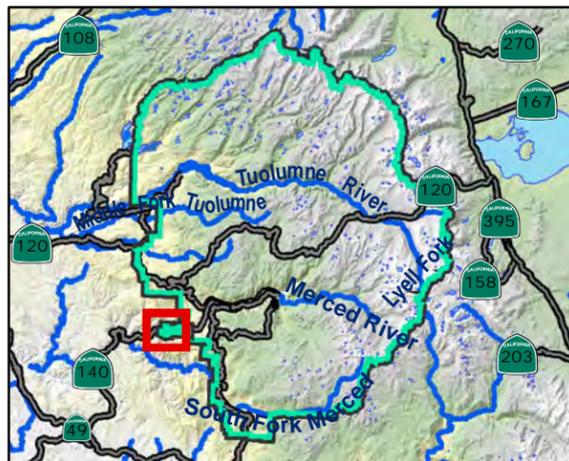
- Early Detection Species
- Lower Priority Species
- Blackberry
- Klamathweed
- Yellow star-thistle



# 2015 Invasive Species Work Plan

## 1.2 El Portal West

Yosemite National Park  
Resources Management and Science  
U.S. Department of the Interior



### Map Symbols

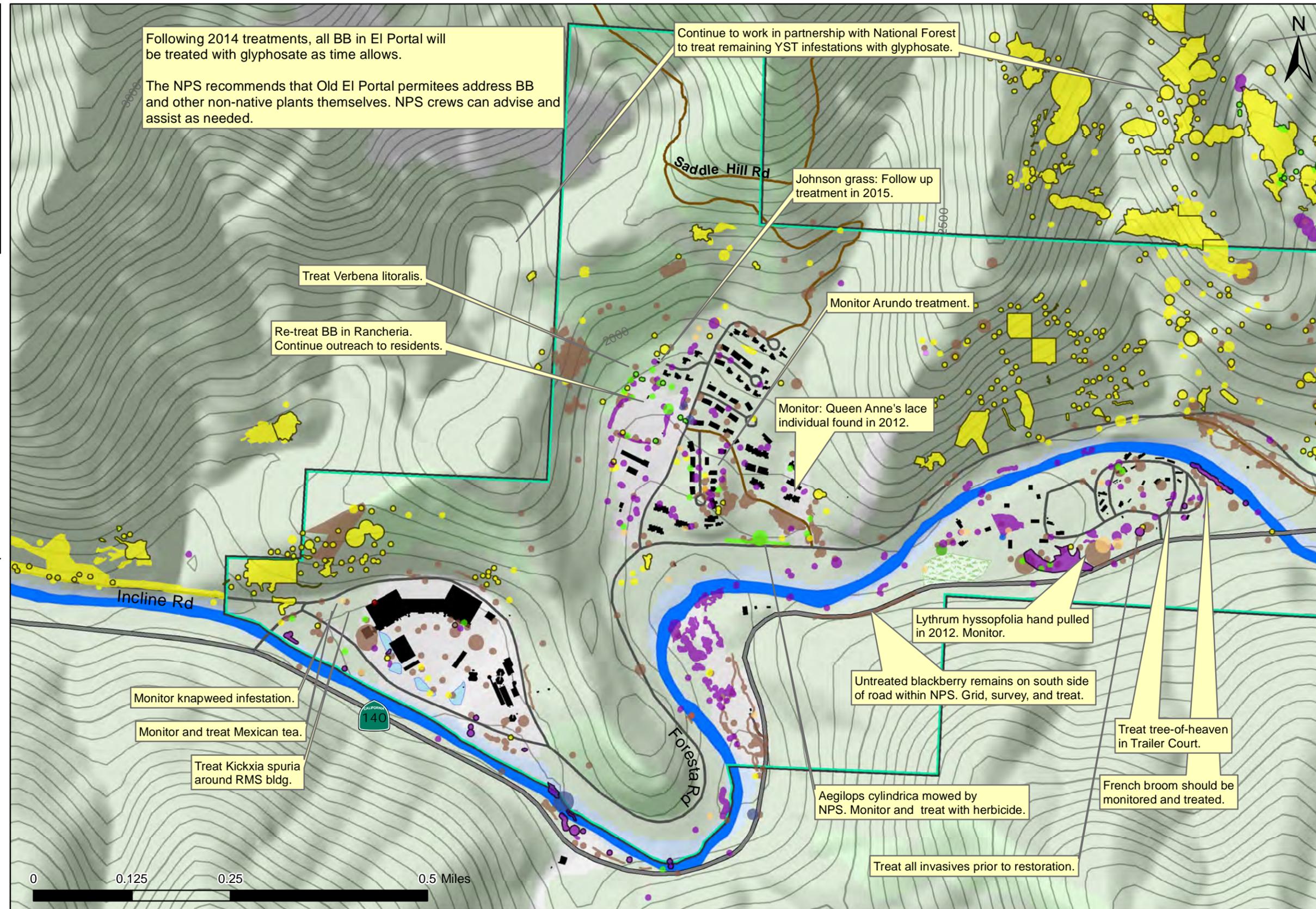
- |                 |             |
|-----------------|-------------|
| Park Boundary   | Buildings   |
| Wilderness      | Lakes       |
| Fire Perimeters | Reservoirs  |
| Roads           | Wet meadows |
| Trails          | Rivers      |

### Invasive Treatments

- Treated in 2014   Treatment Studies

### Invasive Plants

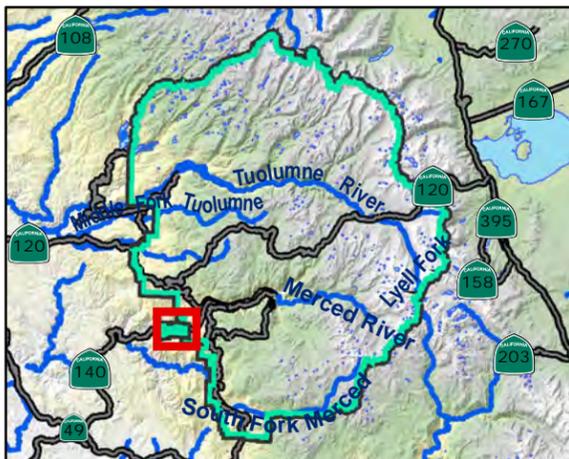
- Early Detection Species
- Lower Priority Species
- Blackberry
- Black locust
- Broom Species
- Bull thistle
- Common mullein
- Hops
- Klamathweed
- Spotted knapweed
- Velvet grass
- Yellow star-thistle



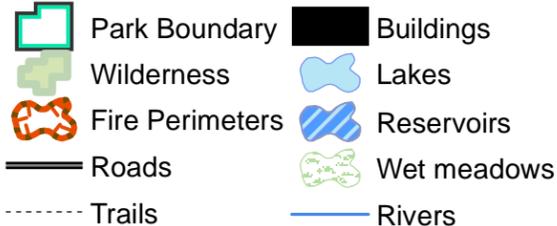
# 2015 Invasive Species Work Plan

## 1.3 El Portal East

Yosemite National Park  
Resources Management and Science  
U.S. Department of the Interior



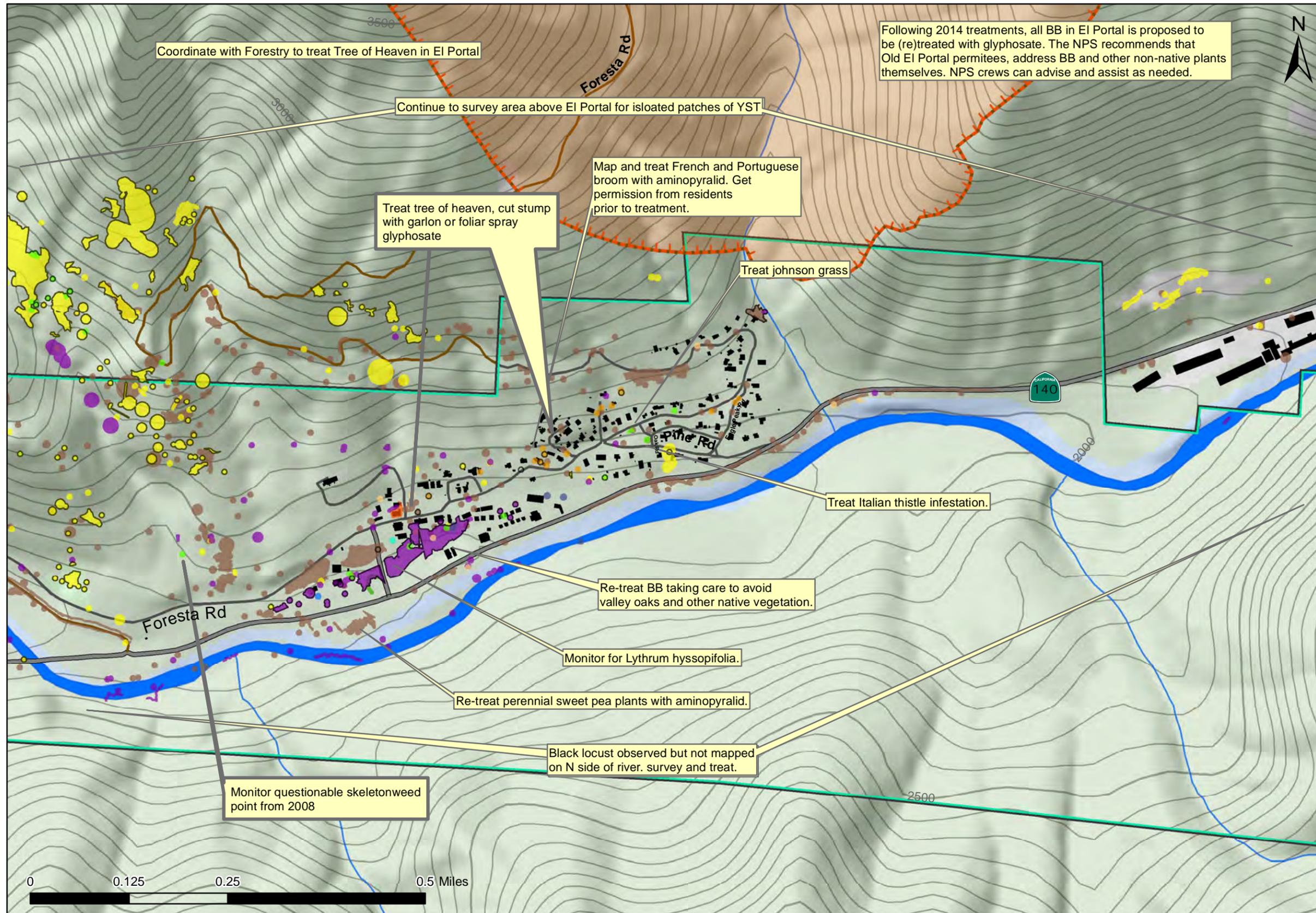
### Map Symbols



### Invasive Treatments

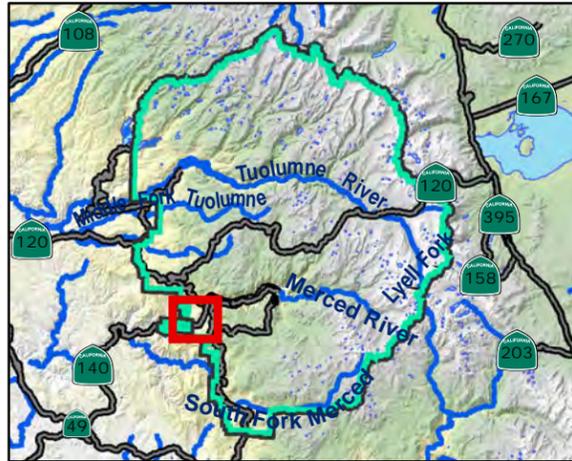


### Invasive Plants



# 2015 Invasive Species Work Plan

## 1.4 Arch Rock



### Map Symbols

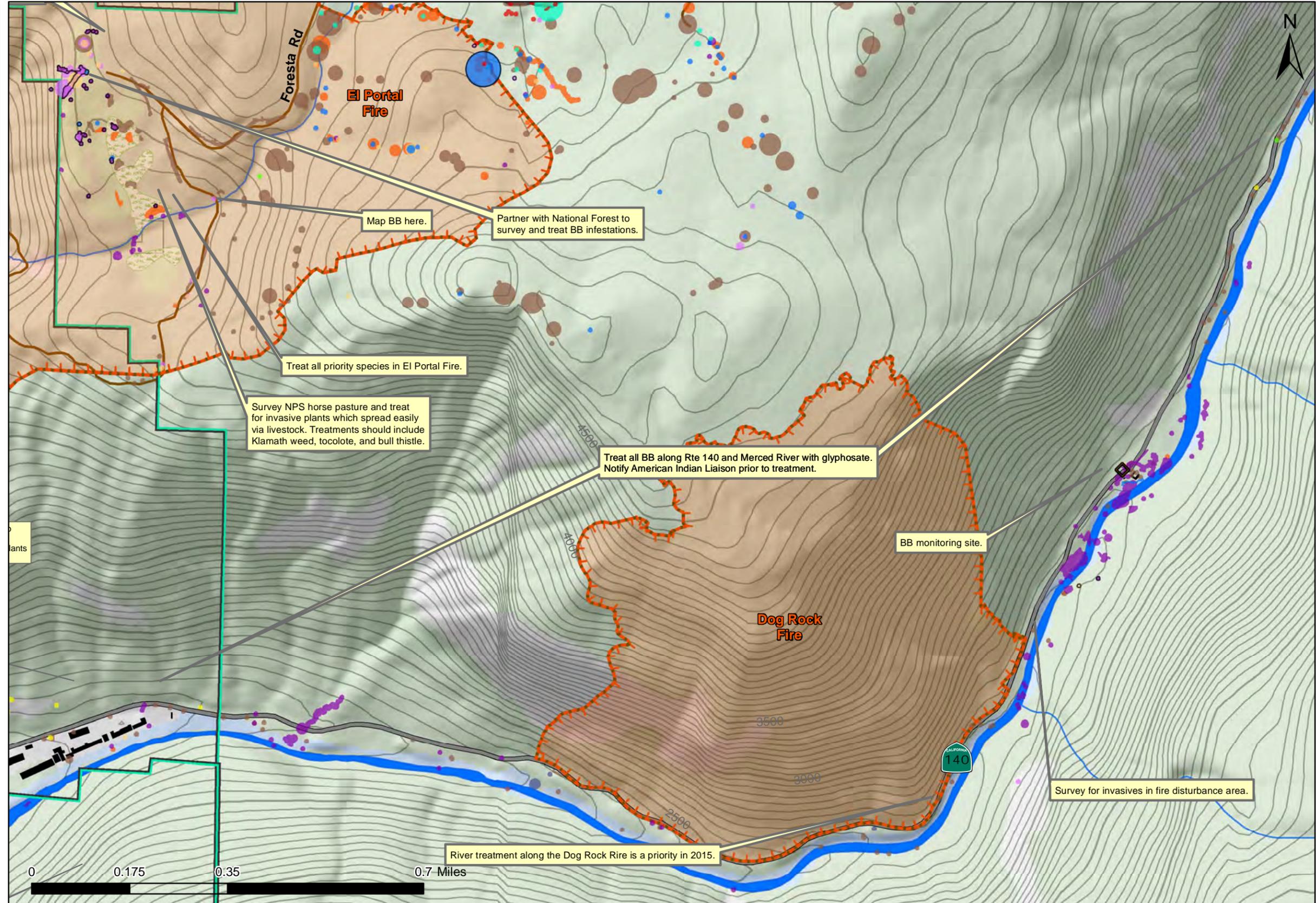
- |                 |             |
|-----------------|-------------|
| Park Boundary   | Buildings   |
| Wilderness      | Lakes       |
| Fire Perimeters | Reservoirs  |
| Roads           | Wet meadows |
| Trails          | Rivers      |

### Invasive Treatments

- Treated in 2014   Treatment Studies

### Invasive Plants

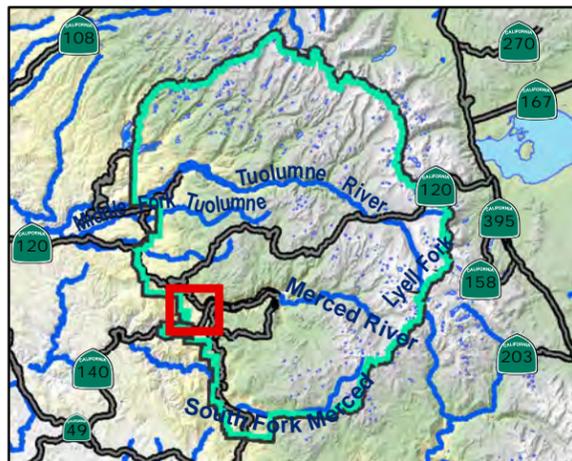
- Early Detection Species
- Lower Priority Species
- Blackberry
- Black locust
- Bull thistle
- Common mullein
- Klamathweed
- Oxeye daisy
- Spotted knapweed
- Velvet grass
- Yellow star-thistle



# 2015 Invasive Species Work Plan

## 1.5 Foresta & Big Meadow

Yosemite National Park  
Resources Management and Science  
U.S. Department of the Interior



### Map Symbols

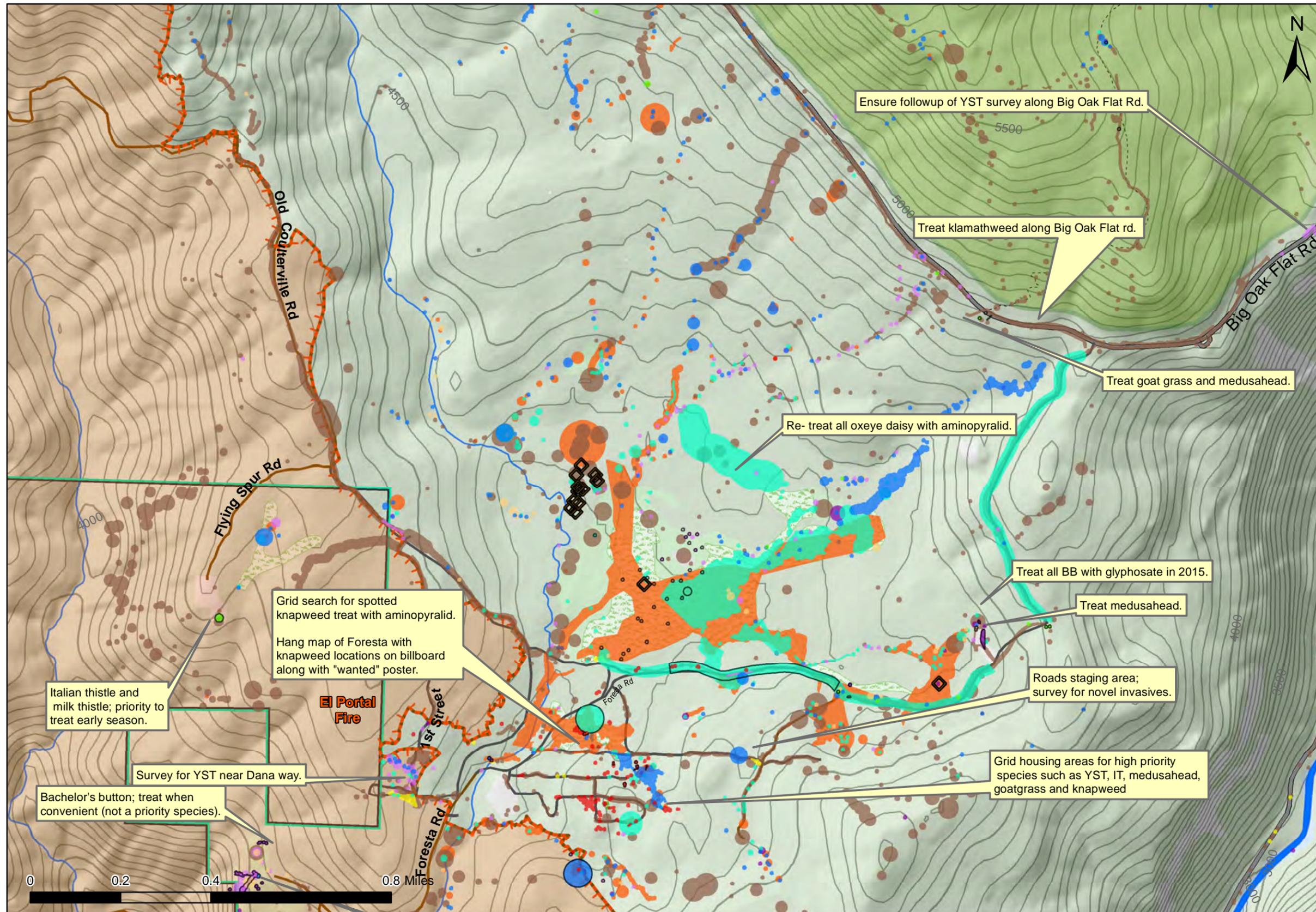
- |                 |             |
|-----------------|-------------|
| Park Boundary   | Buildings   |
| Wilderness      | Lakes       |
| Fire Perimeters | Reservoirs  |
| Roads           | Wet meadows |
| Trails          | Rivers      |

### Invasive Treatments

- Treated in 2014   Treatment Studies

### Invasive Plants

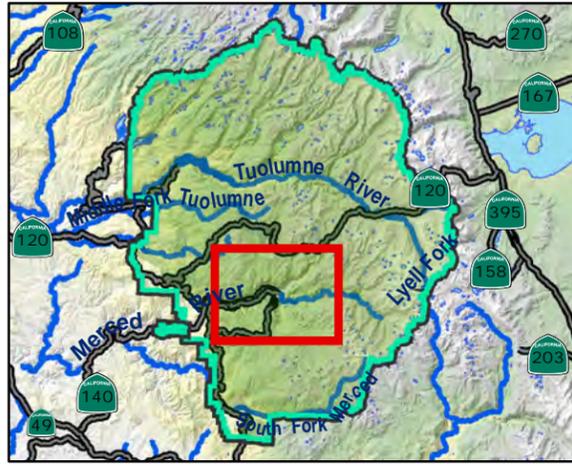
- Early Detection Species
- Lower Priority Species
- Blackberry
- Black locust
- Bull thistle
- Common mullein
- Dandelion
- Hops
- Klamathweed
- Oxeye daisy
- Spotted knapweed
- Velvet grass
- Yellow star-thistle



# 2015 Invasive Species Work Plan

## 2.0 Yosemite Valley

Yosemite National Park  
Resources Management and Science  
U.S. Department of the Interior

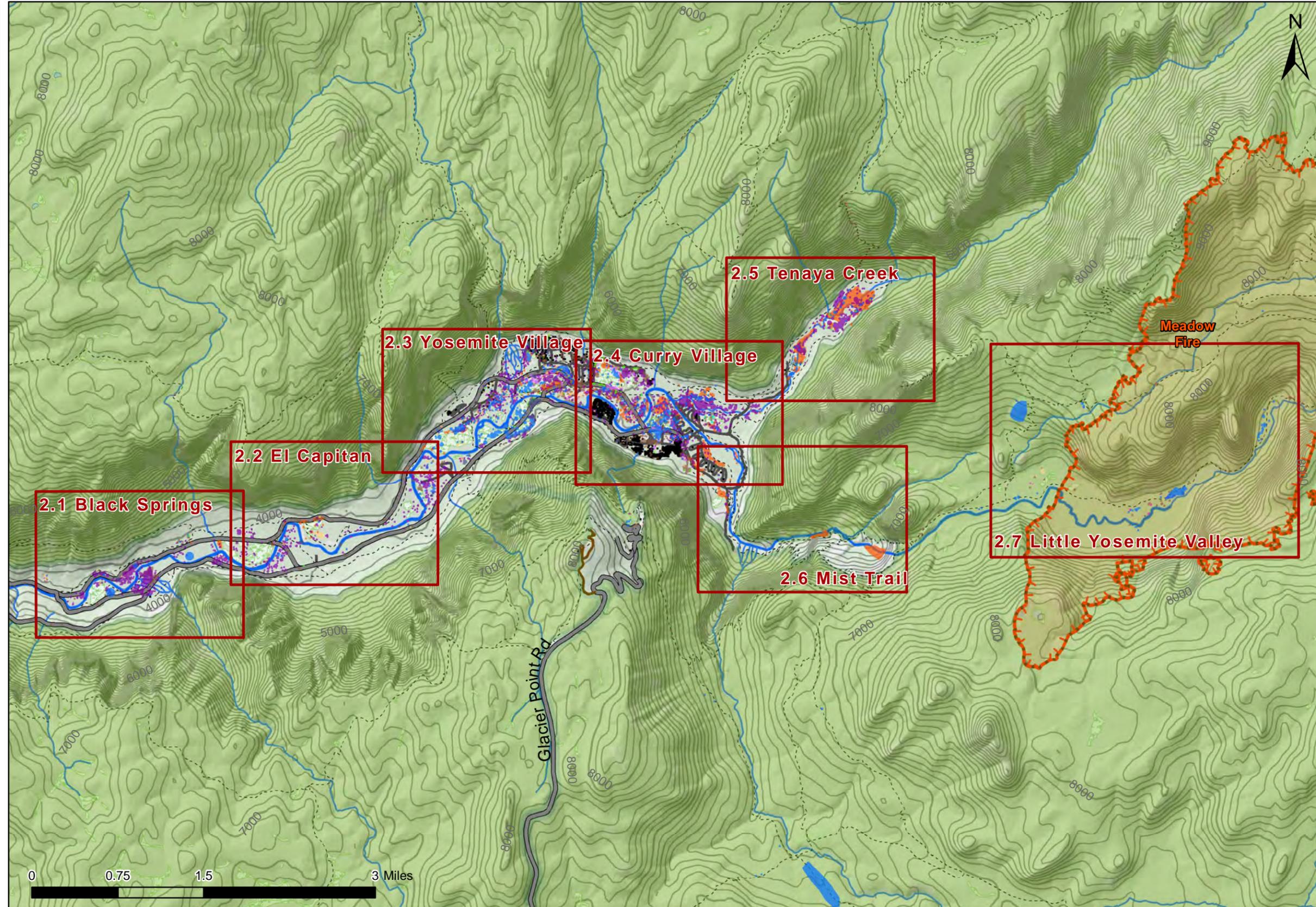


### Map Symbols

- |                 |             |
|-----------------|-------------|
| Park Boundary   | Buildings   |
| Wilderness      | Lakes       |
| Fire Perimeters | Reservoirs  |
| Roads           | Wet meadows |
| Trails          | Rivers      |

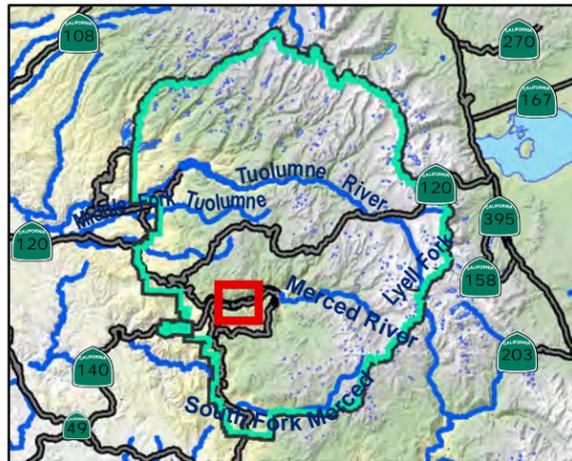
### Invasive Plants

- Early Detection Species
- Lower Priority Species
- Blackberry
- Black locust
- Bull thistle
- Common mullein
- Dandelion
- Hops
- Klamathweed
- Oxeye daisy
- Spotted knapweed
- Velvet grass
- Yellow star-thistle



# 2015 Invasive Species Work Plan

## 2.1 Black Springs



### Map Symbols

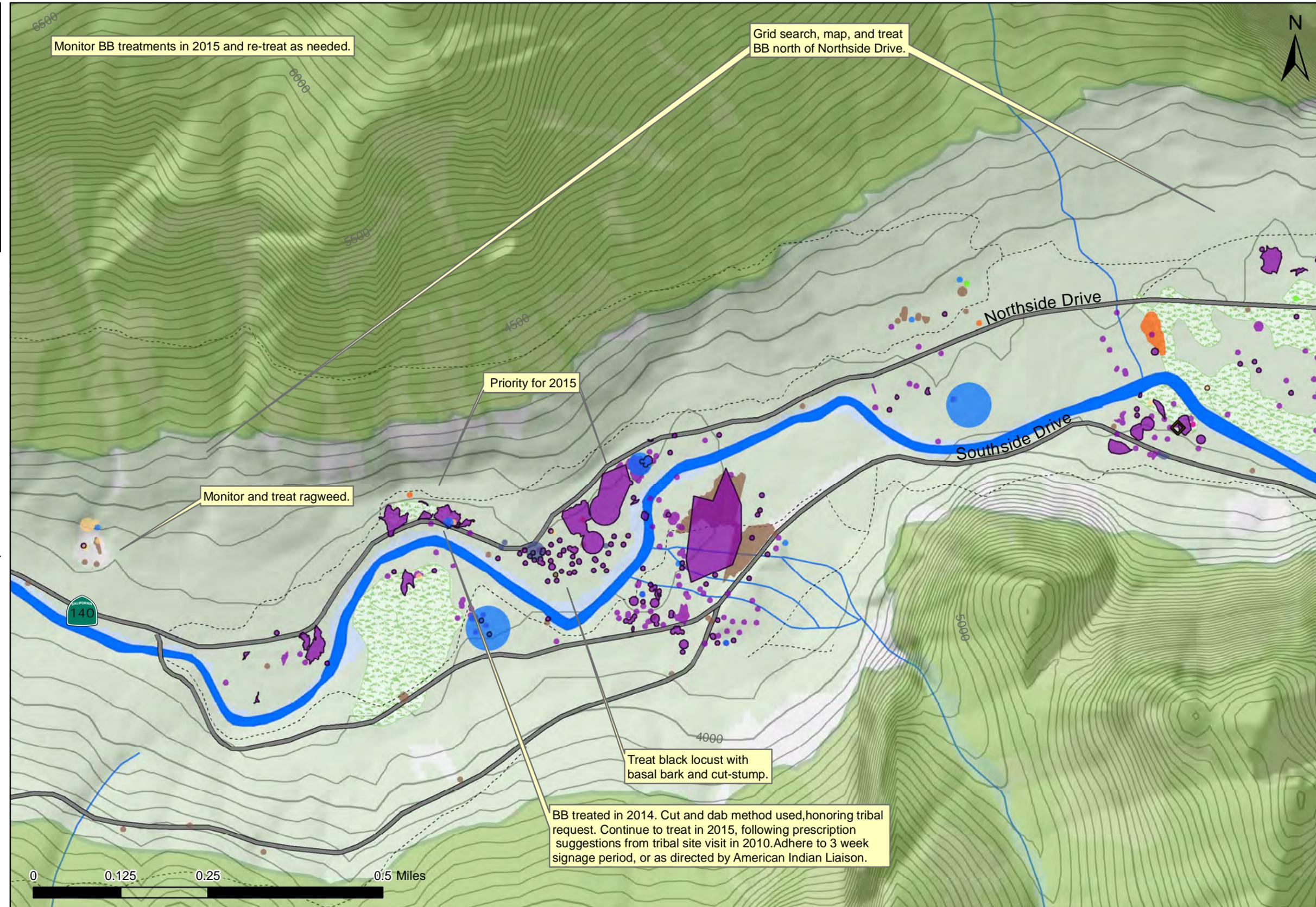
- |                 |             |
|-----------------|-------------|
| Park Boundary   | Buildings   |
| Wilderness      | Lakes       |
| Fire Perimeters | Reservoirs  |
| Roads           | Wet meadows |
| Trails          | Rivers      |

### Invasive Treatments

- Treated in 2014   Treatment Studies

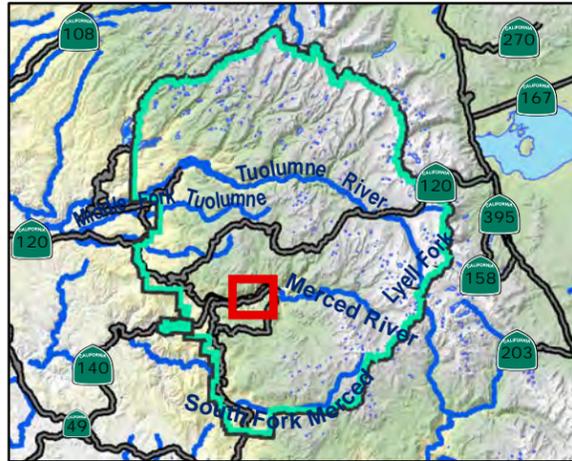
### Invasive Plants

- Early Detection Species
- Lower Priority Species
- Blackberry
- Black locust
- Bull thistle
- Common mullein
- Dandelion
- Velvet grass

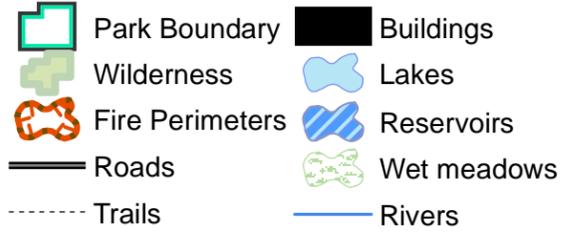


# 2015 Invasive Species Work Plan

## 2.2 El Capitan



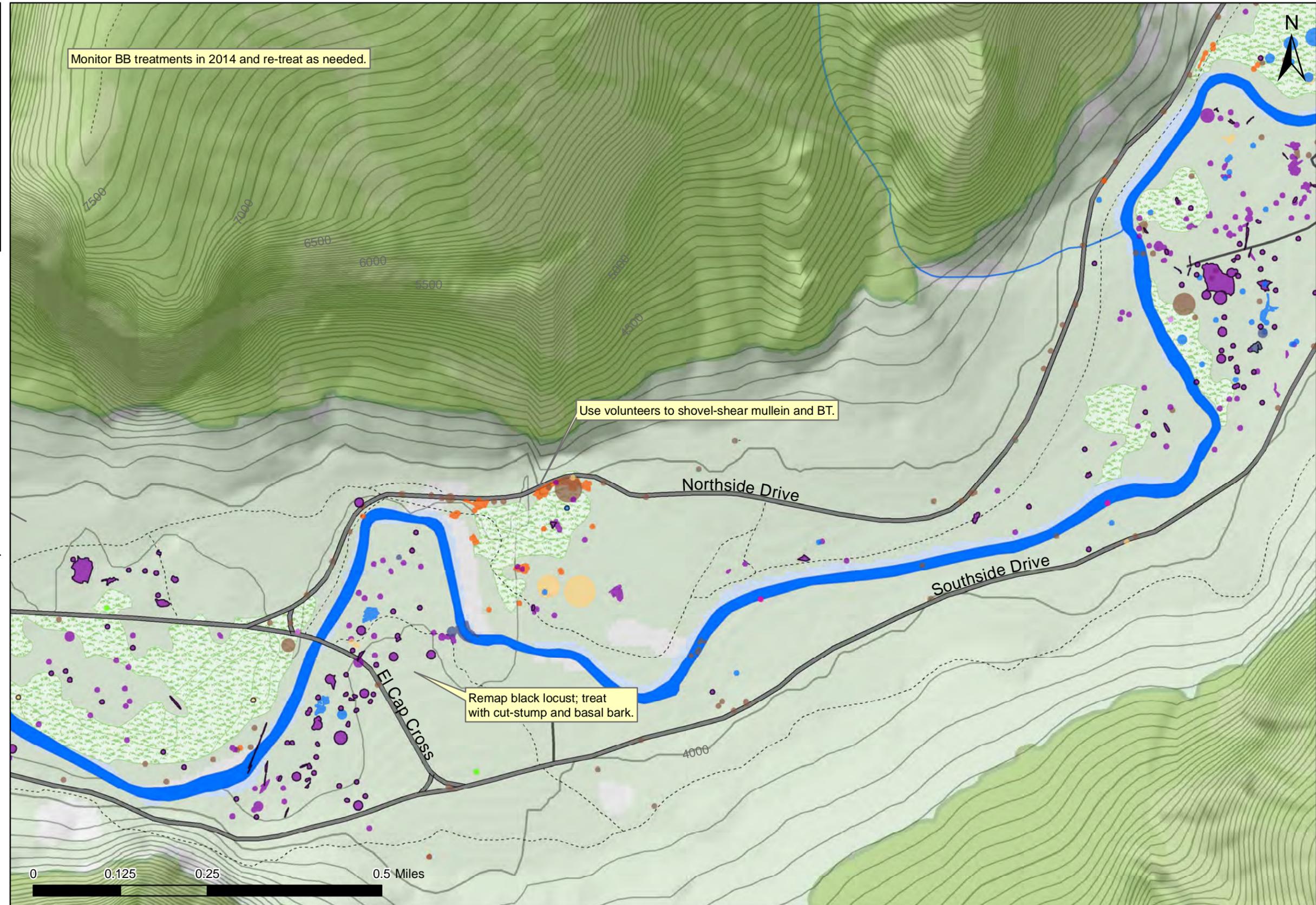
### Map Symbols



### Invasive Treatments



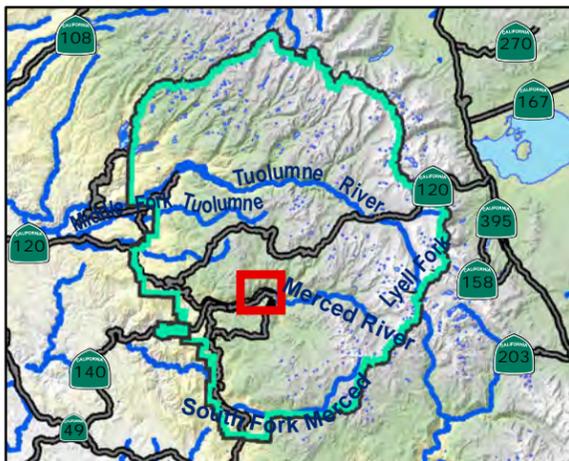
### Invasive Plants



# 2015 Invasive Species Work Plan

## 2.3 Yosemite Village

Yosemite National Park  
Resources Management and Science  
U.S. Department of the Interior



### Map Symbols

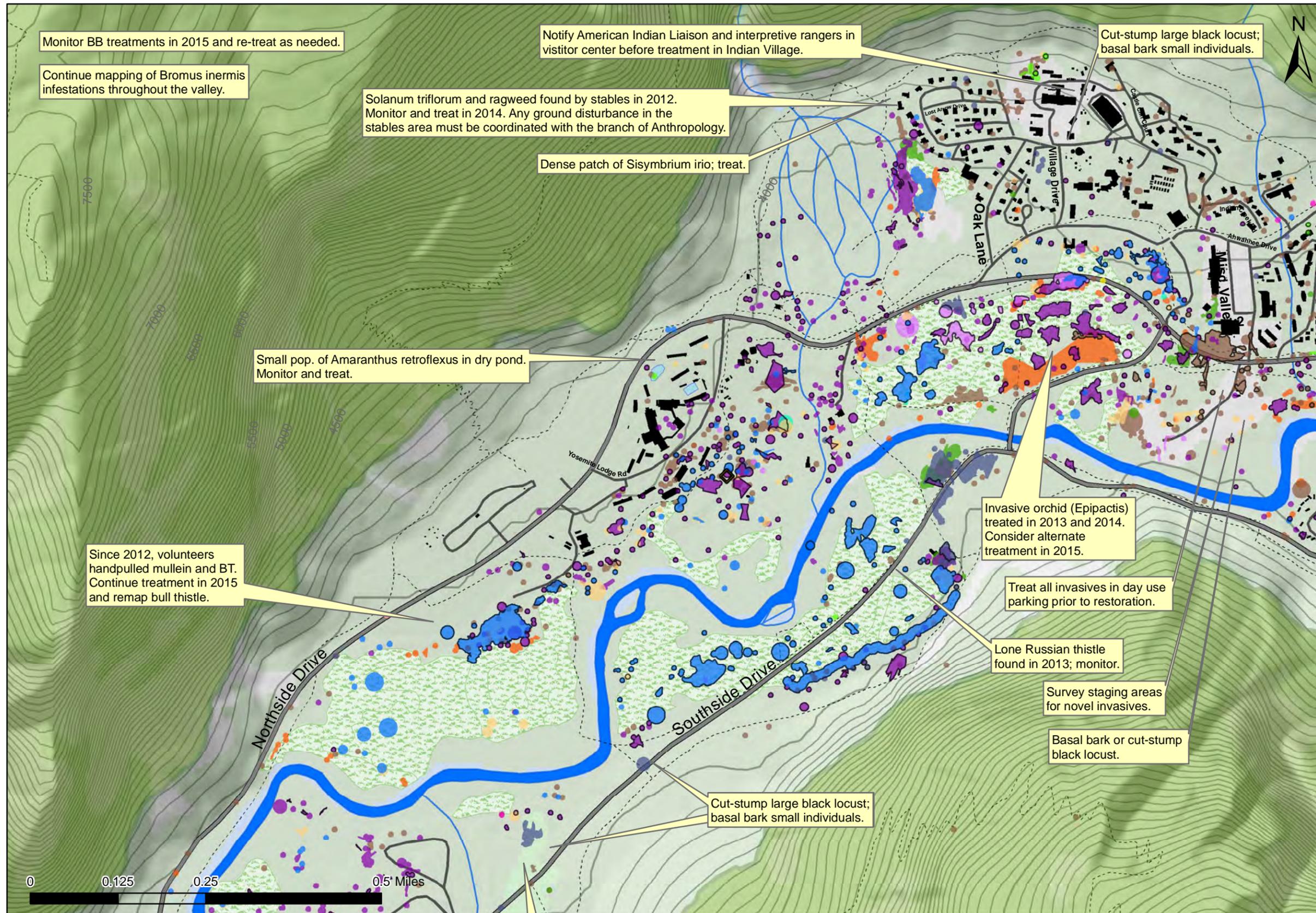
- |                 |             |
|-----------------|-------------|
| Park Boundary   | Buildings   |
| Wilderness      | Lakes       |
| Fire Perimeters | Reservoirs  |
| Roads           | Wet meadows |
| Trails          | Rivers      |

### Invasive Treatments

- Treated in 2014   Treatment Studies

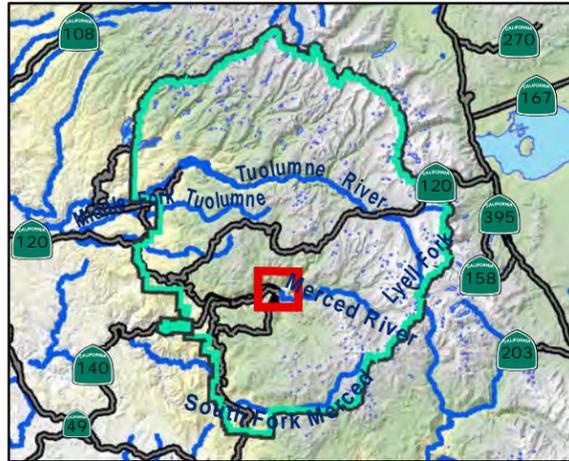
### Invasive Plants

- Early Detection Species
- Lower Priority Species
- Blackberry
- Black locust
- Bull thistle
- Common mullein
- Dandelion
- Hops
- Klamathweed
- Oxeye daisy
- Velvet grass
- Yellow star-thistle



# 2015 Invasive Species Work Plan

## 2.4 Curry Village



**Map Symbols**

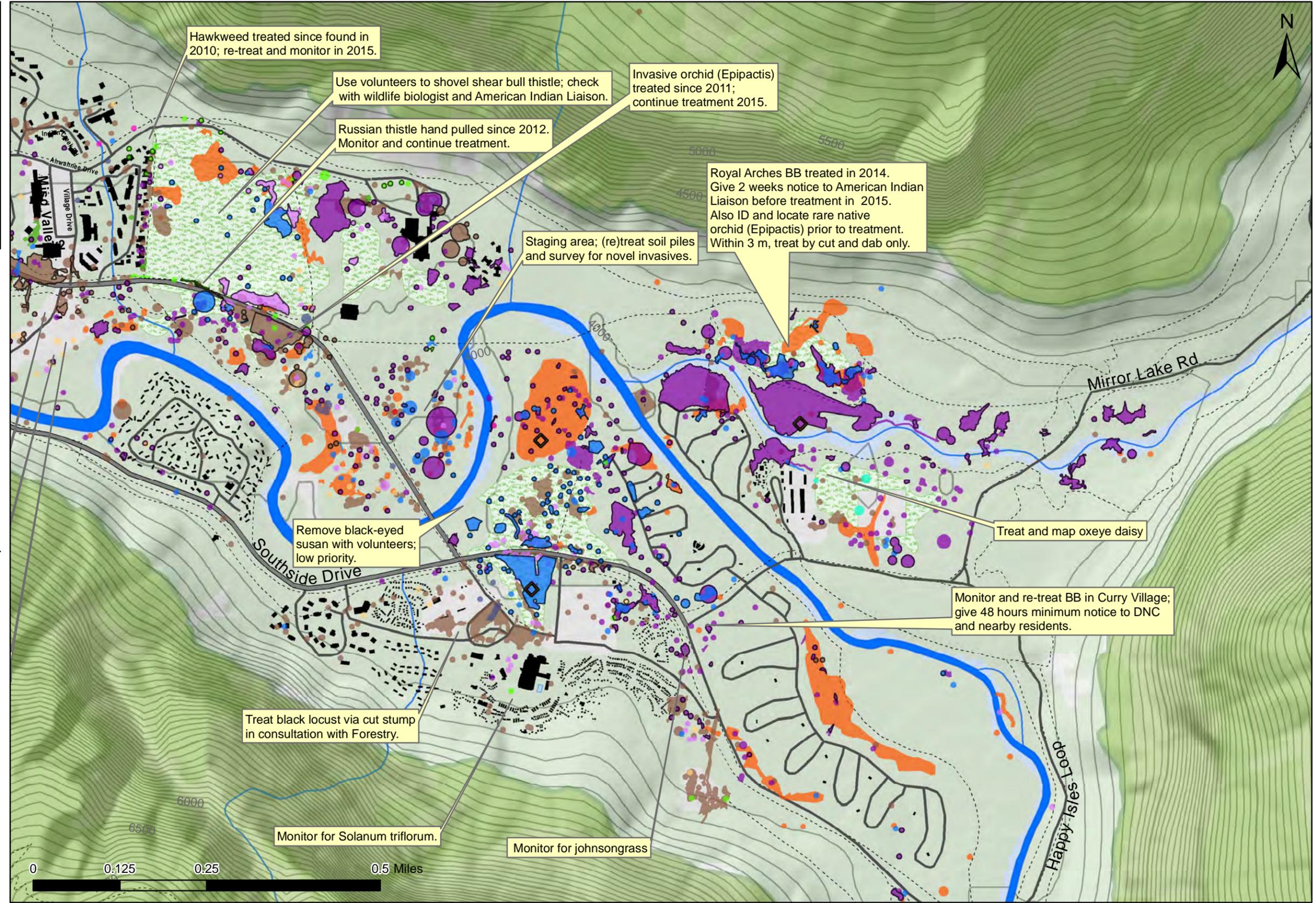
Park Boundary	Buildings
Wilderness	Lakes
Fire Perimeters	Reservoirs
Roads	Wet meadows
Trails	Rivers

**Invasive Treatments**

Treated in 2014    Treatment Studies

**Invasive Plants**

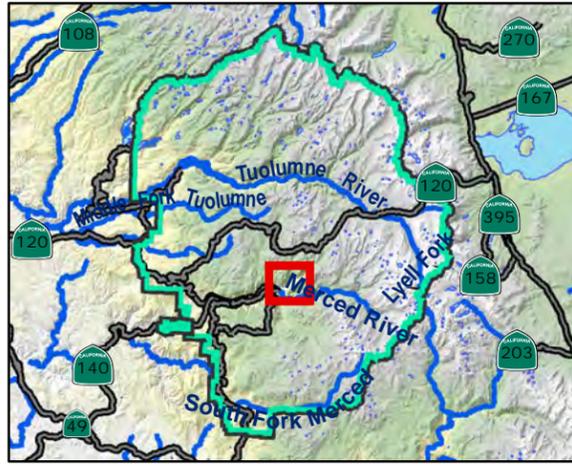
- Early Detection Species
- Lower Priority Species
- Blackberry
- Black locust
- Bull thistle
- Common mullein
- Dandelion
- Hops
- Klamathweed
- Oxeye daisy
- Spotted knapweed
- Velvet grass



# 2015 Invasive Species Work Plan

## 2.5 Tenaya Creek

Yosemite National Park  
Resources Management and Science  
U.S. Department of the Interior



### Map Symbols

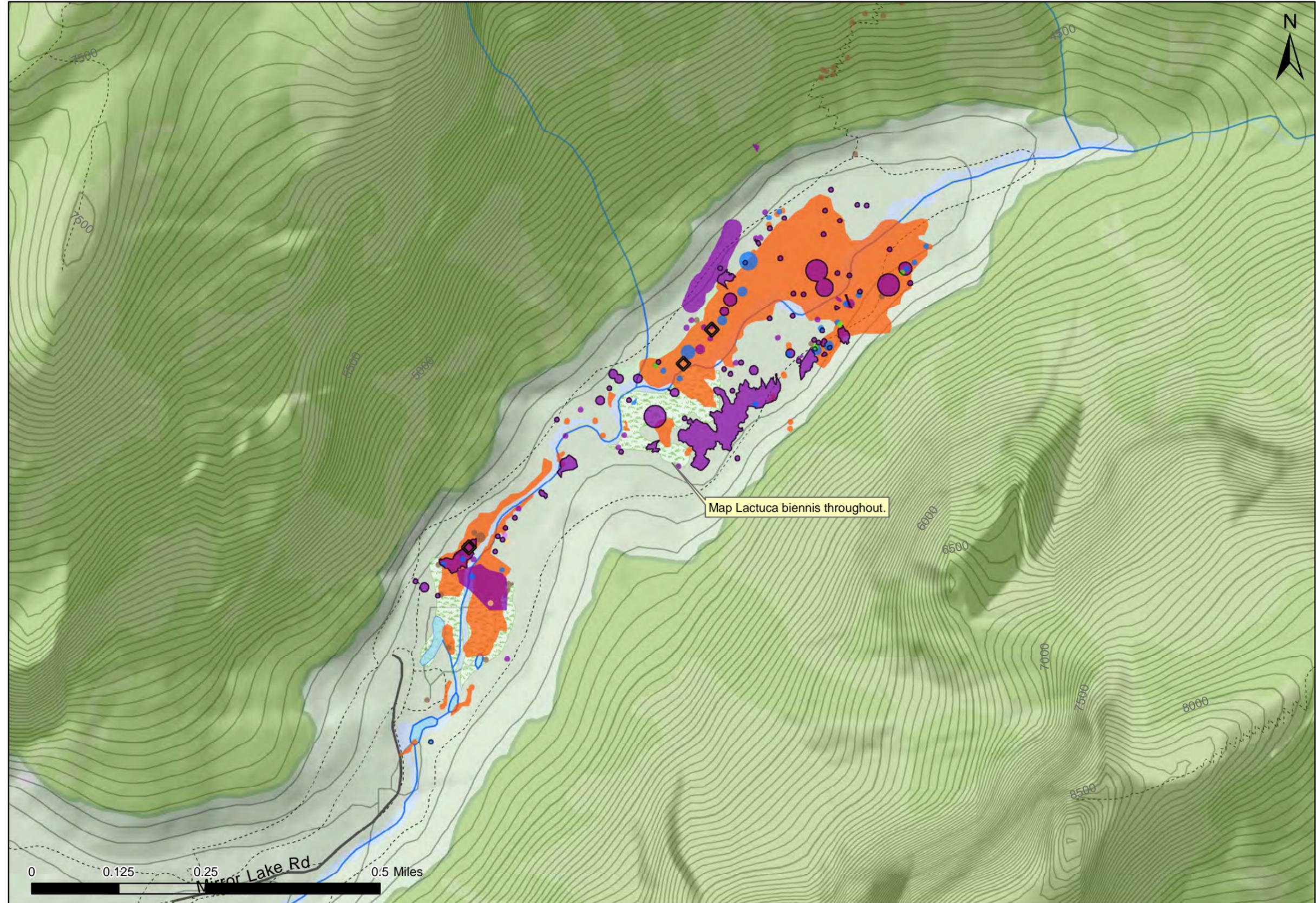
- |                 |             |
|-----------------|-------------|
| Park Boundary   | Buildings   |
| Wilderness      | Lakes       |
| Fire Perimeters | Reservoirs  |
| Roads           | Wet meadows |
| Trails          | Rivers      |

### Invasive Treatments

- Treated in 2014   Treatment Studies

### Invasive Plants

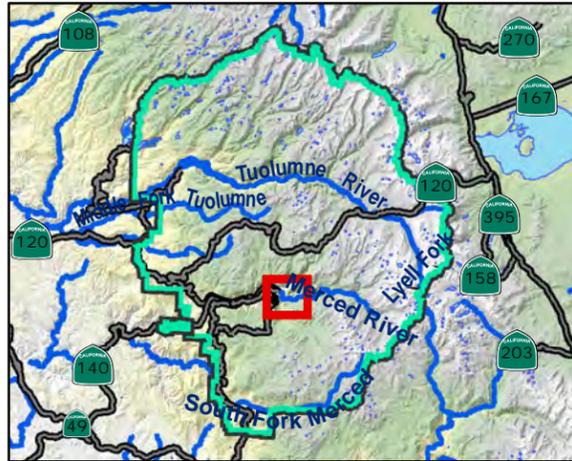
- Early Detection Species
- Lower Priority Species
- Blackberry
- Bull thistle
- Common mullein
- Klamathweed
- Velvet grass



# 2015 Invasive Species Work Plan

## 2.6 Mist Trail

Yosemite National Park  
Resources Management and Science  
U.S. Department of the Interior



### Map Symbols

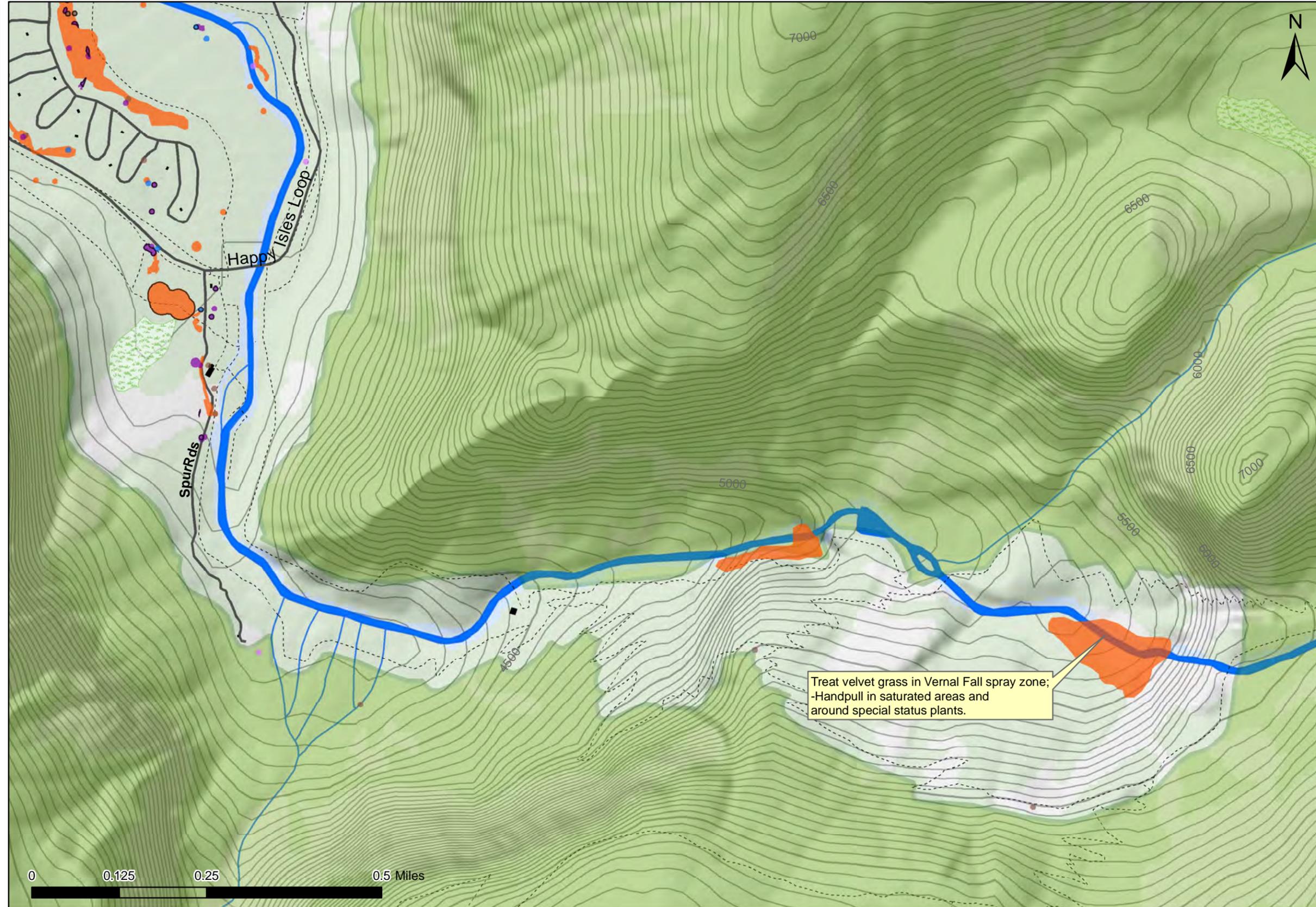
- |                 |             |
|-----------------|-------------|
| Park Boundary   | Buildings   |
| Wilderness      | Lakes       |
| Fire Perimeters | Reservoirs  |
| Roads           | Wet meadows |
| Trails          | Rivers      |

### Invasive Treatments

- Treated in 2014   Treatment Studies

### Invasive Plants

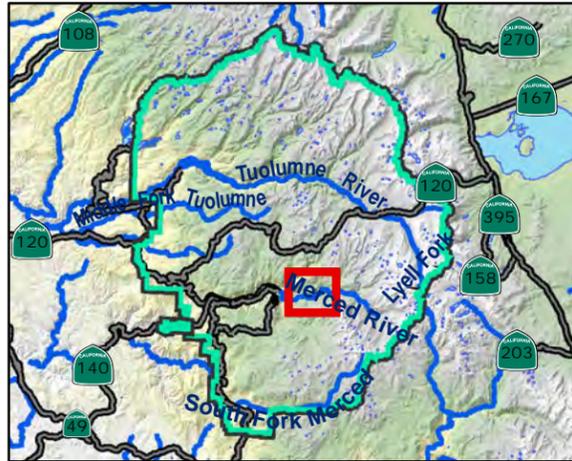
- Lower Priority Species
- Blackberry
- Bull thistle
- Klamathweed
- Velvet grass



0 0.125 0.25 0.5 Miles

# 2015 Invasive Species Work Plan

## 2.7 Little Yosemite Valley



### Map Symbols

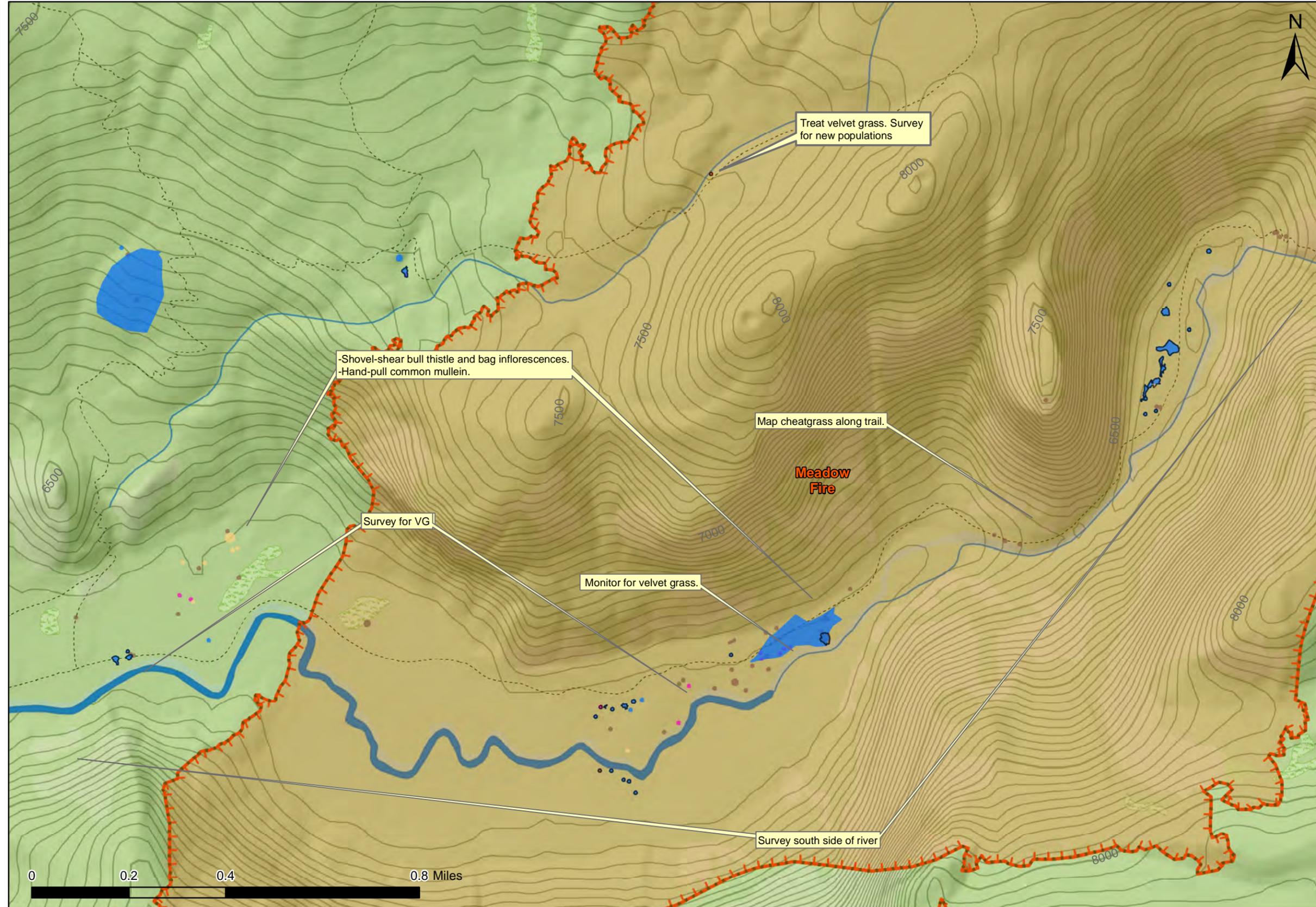
- |                 |             |
|-----------------|-------------|
| Park Boundary   | Buildings   |
| Wilderness      | Lakes       |
| Fire Perimeters | Reservoirs  |
| Roads           | Wet meadows |
| Trails          | Rivers      |

### Invasive Treatments

- Treated in 2014   Treatment Studies

### Invasive Plants

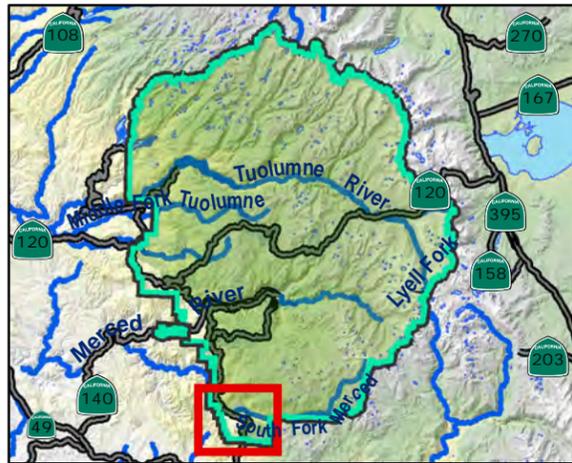
- Lower Priority Species
- Bull thistle
- Common mullein
- Dandelion
- Velvet grass



# 2015 Invasive Species Work Plan

## 3.0 Wawona Region

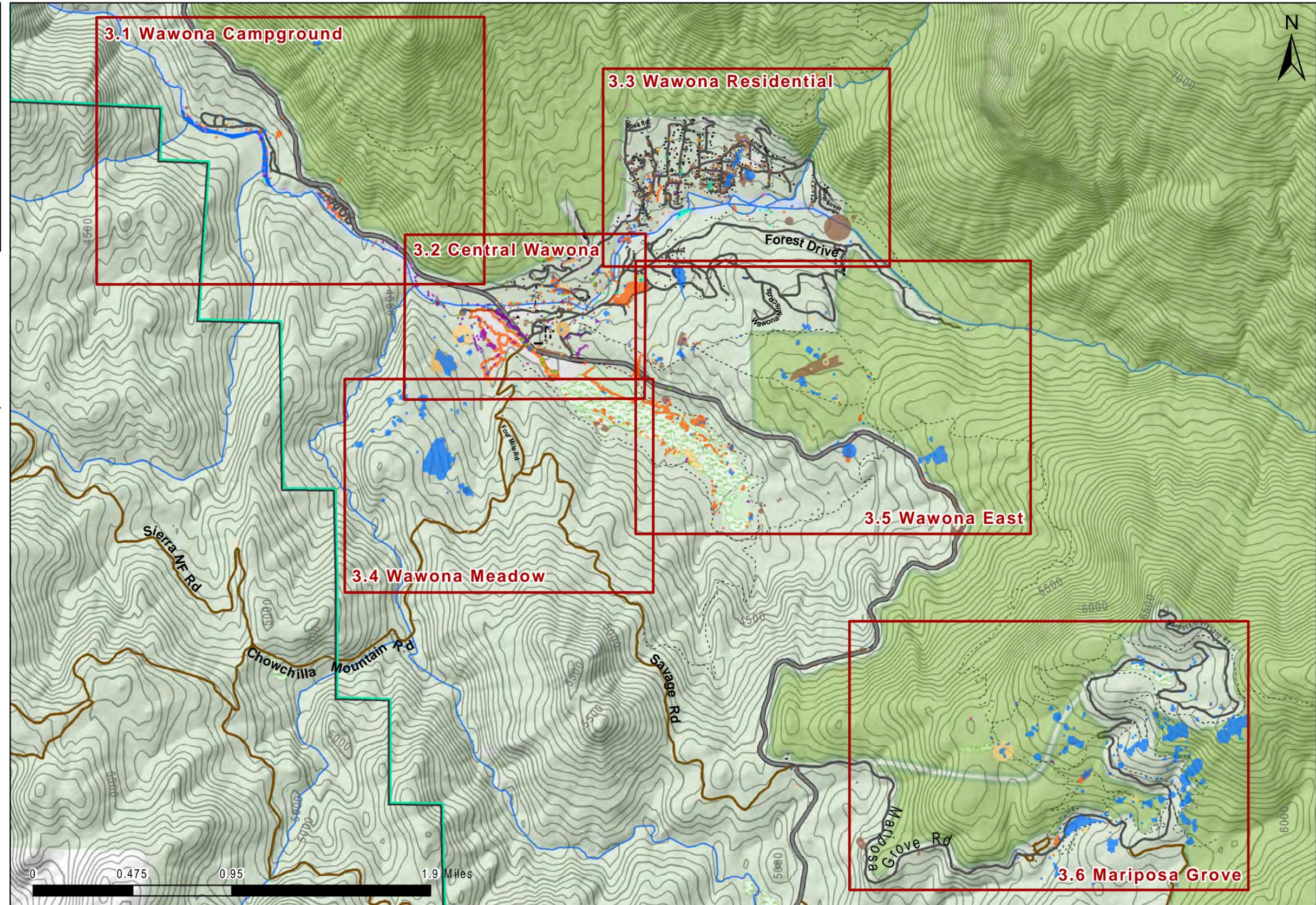
Yosemite National Park  
Resources Management and Science  
U.S. Department of the Interior



### Map Symbols

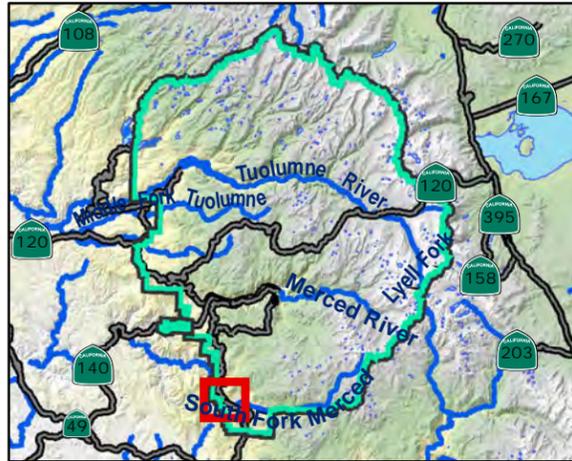


### Invasive Plants



# 2015 Invasive Species Work Plan

## 3.1 Wawona Campground



### Map Symbols

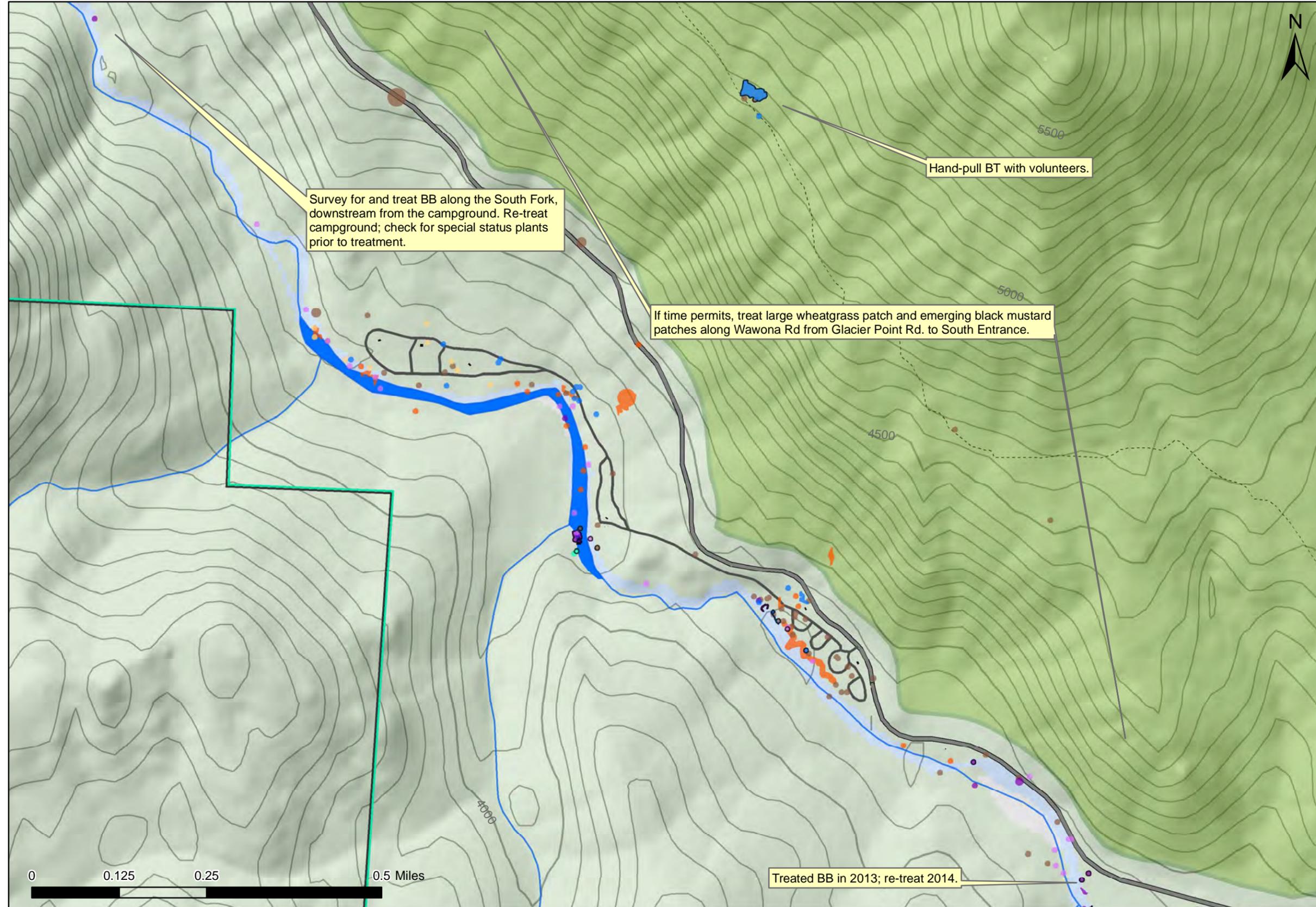
- |                 |             |
|-----------------|-------------|
| Park Boundary   | Buildings   |
| Wilderness      | Lakes       |
| Fire Perimeters | Reservoirs  |
| Roads           | Wet meadows |
| Trails          | Rivers      |

### Invasive Treatments

- Treated in 2014   Treatment Studies

### Invasive Plants

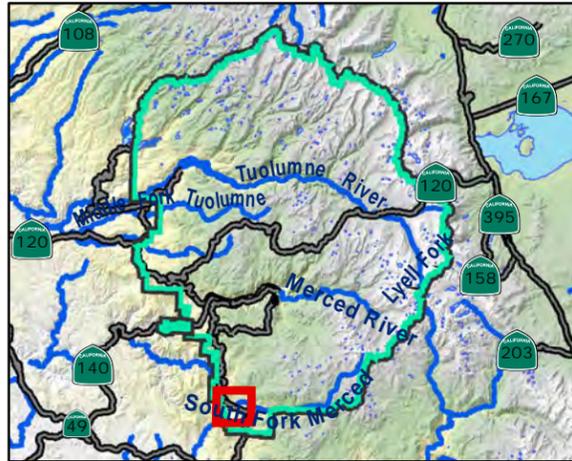
- Lower Priority Species
- Blackberry
- Bull thistle
- Common mullein
- Klamathweed
- Oxeye daisy
- Velvet grass



# 2015 Invasive Species Work Plan

## 3.2 Central Wawona

Yosemite National Park  
Resources Management and Science  
U.S. Department of the Interior



### Map Symbols

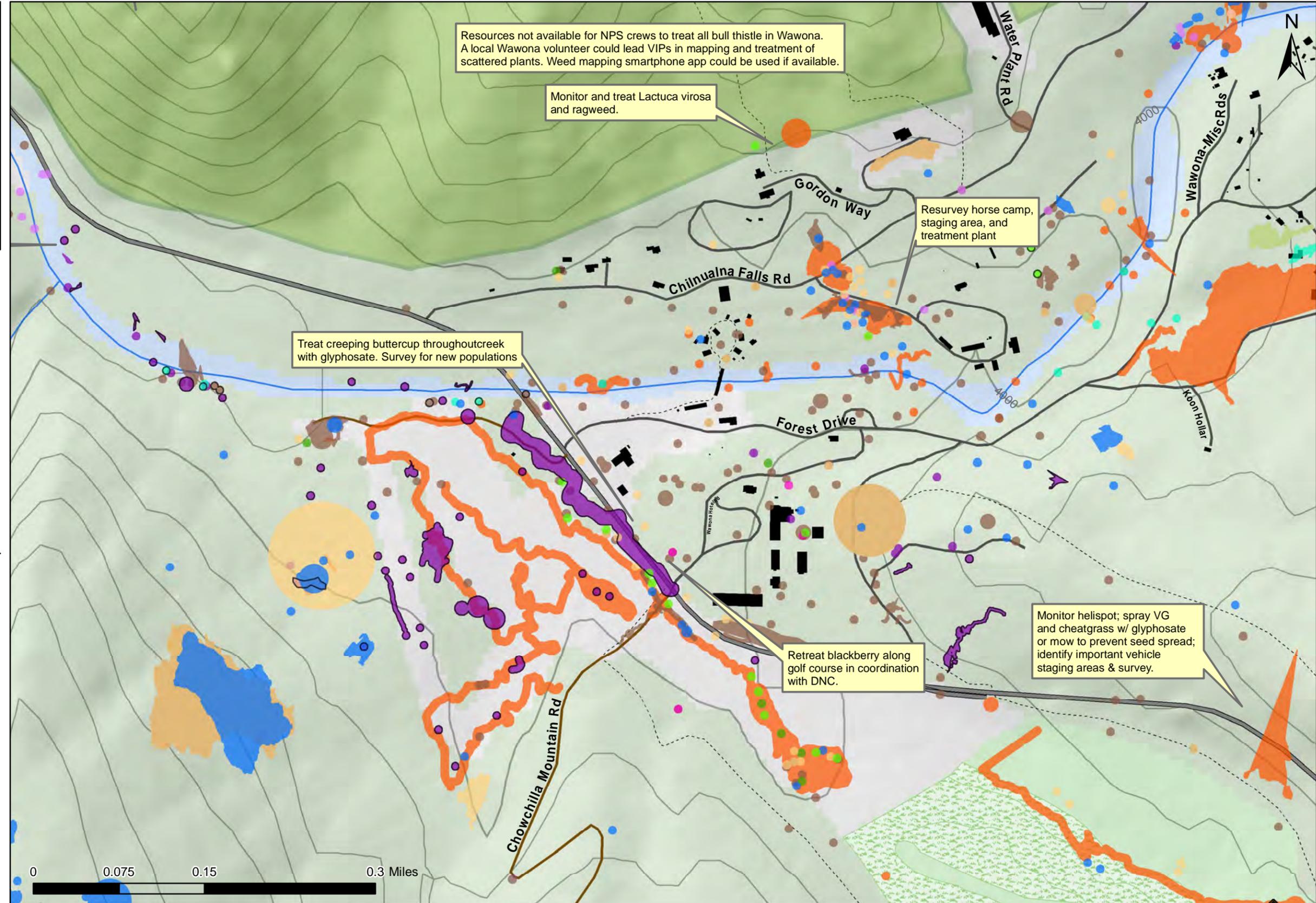
- |                 |             |
|-----------------|-------------|
| Park Boundary   | Buildings   |
| Wilderness      | Lakes       |
| Fire Perimeters | Reservoirs  |
| Roads           | Wet meadows |
| Trails          | Rivers      |

### Invasive Treatments

- Treated in 2014   Treatment Studies

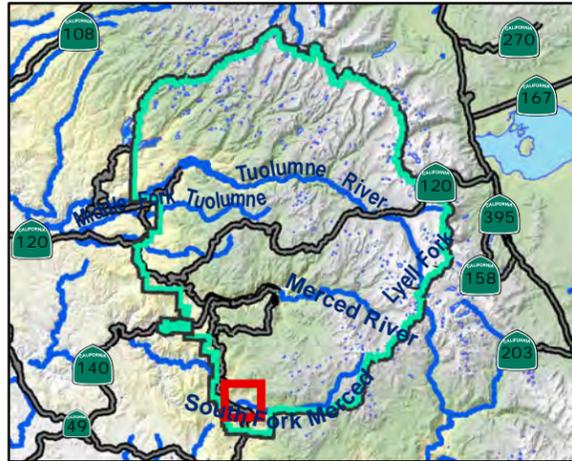
### Invasive Plants

- Early Detection Species
- Lower Priority Species
- Blackberry
- Bull thistle
- Common mullein
- Dandelion
- Hops
- Klamathweed
- Oxeye daisy
- Velvet grass



# 2015 Invasive Species Work Plan

## 3.3 Wawona Residential



### Map Symbols

	Park Boundary		Buildings
	Wilderness		Lakes
	Fire Perimeters		Reservoirs
	Roads		Wet meadows
	Trails		Rivers

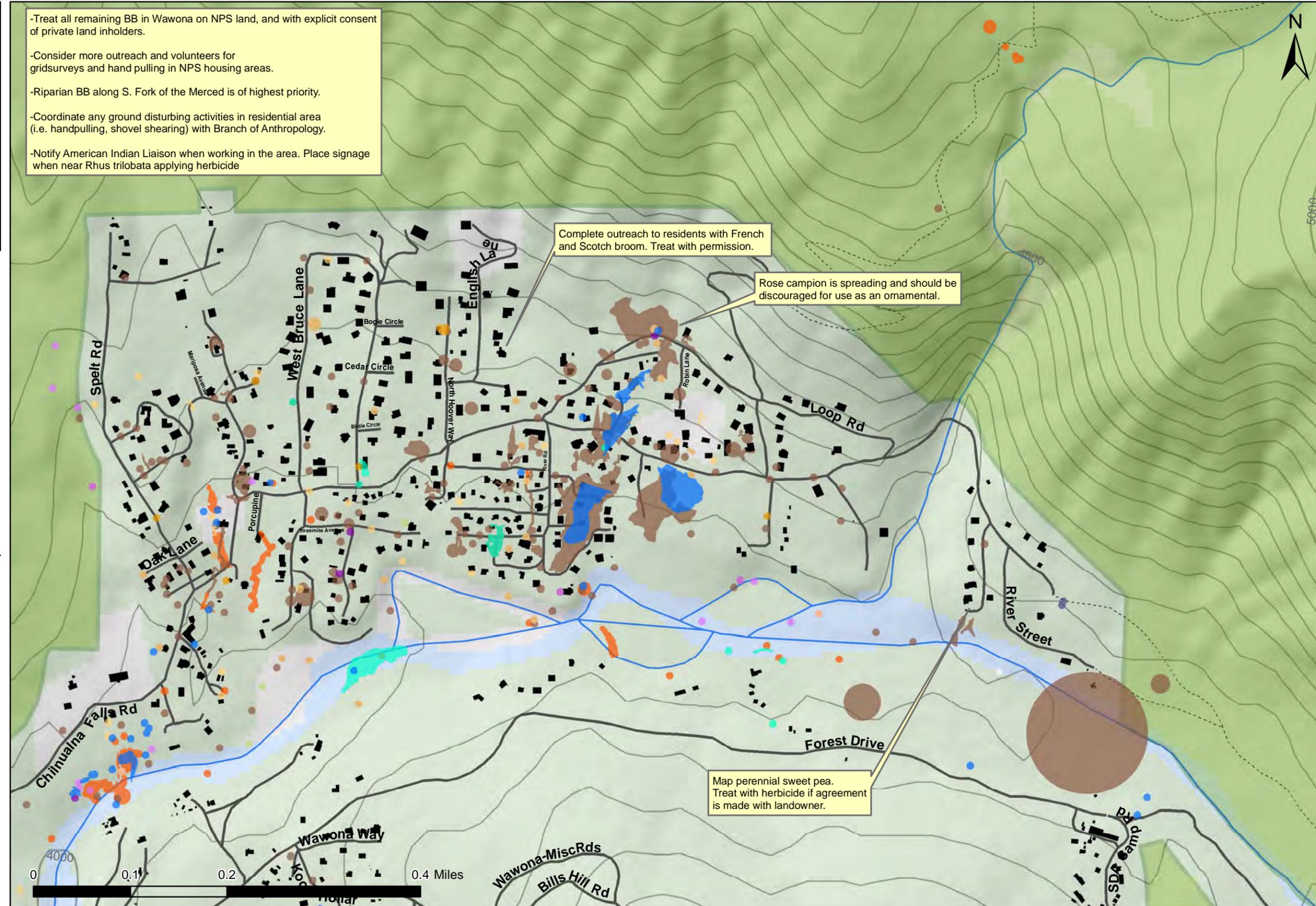
### Invasive Treatments

	Treated in 2014		Treatment Studies
--	-----------------	--	-------------------

### Invasive Plants

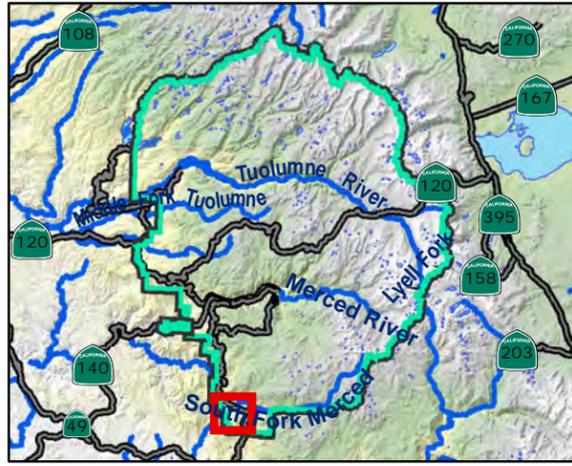
	Lower Priority Species
	Blackberry
	Black locust
	Broom Species
	Bull thistle
	Common mullein
	Klamathweed
	Oxeye daisy
	Velvet grass

- Treat all remaining BB in Wawona on NPS land, and with explicit consent of private land inholders.
- Consider more outreach and volunteers for gridsurveys and hand pulling in NPS housing areas.
- Riparian BB along S. Fork of the Merced is of highest priority.
- Coordinate any ground disturbing activities in residential area (i.e. handpulling, shovel shearing) with Branch of Anthropology.
- Notify American Indian Liaison when working in the area. Place signage when near *Rhus trilobata* applying herbicide



# 2015 Invasive Species Work Plan

## 3.4 Wawona Meadow



**Map Symbols**

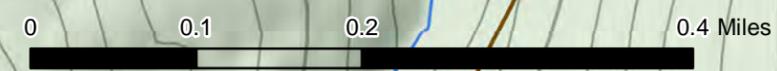
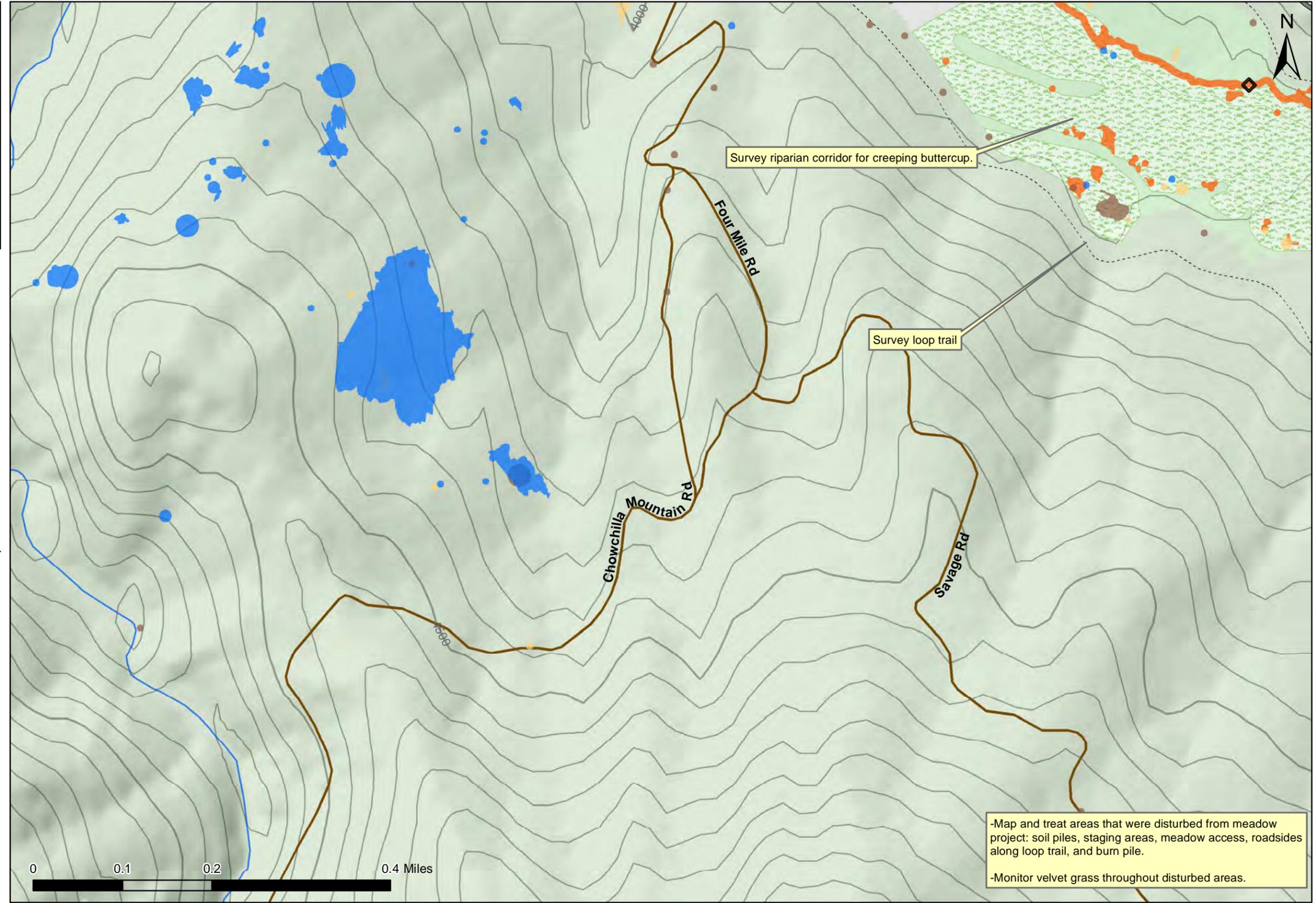
Park Boundary	Buildings
Wilderness	Lakes
Fire Perimeters	Reservoirs
Roads	Wet meadows
Trails	Rivers

**Invasive Treatments**

Treated in 2014    Treatment Studies

**Invasive Plants**

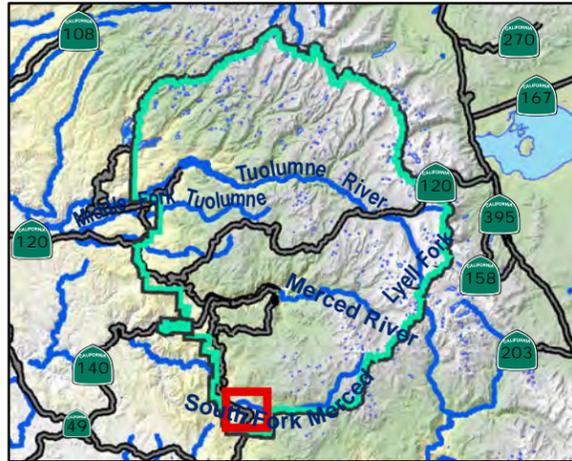
- Lower Priority Species
- Bull thistle
- Common mullein
- Velvet grass



-Map and treat areas that were disturbed from meadow project: soil piles, staging areas, meadow access, roadsides along loop trail, and burn pile.  
-Monitor velvet grass throughout disturbed areas.

# 2015 Invasive Species Work Plan

## 3.5 Wawona East



**Map Symbols**

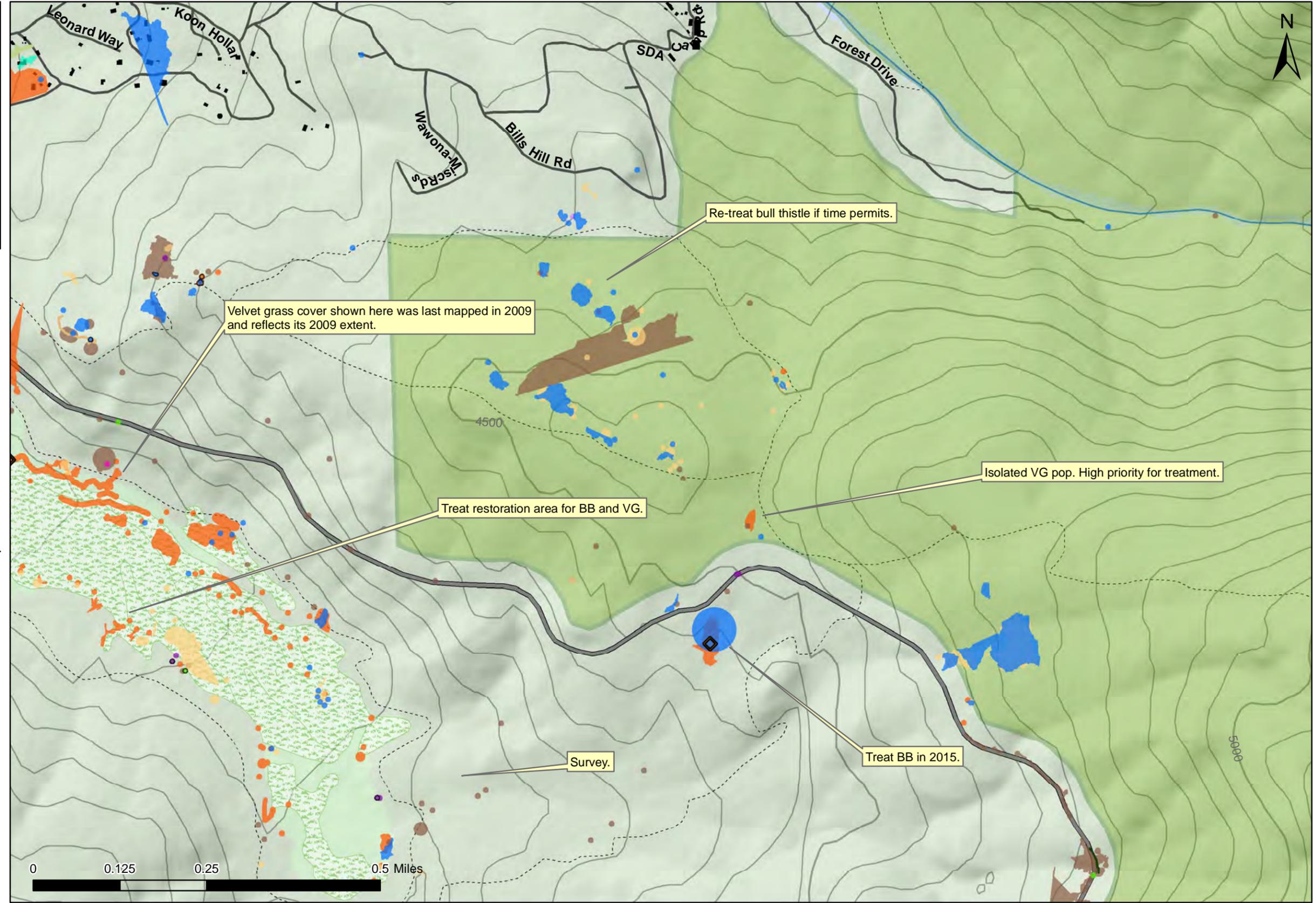
Park Boundary	Buildings
Wilderness	Lakes
Fire Perimeters	Reservoirs
Roads	Wet meadows
Trails	Rivers

**Invasive Treatments**

Treated in 2014   Treatment Studies

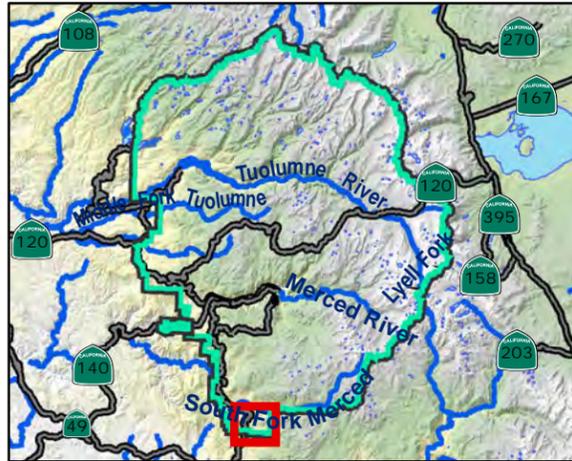
**Invasive Plants**

- Early Detection Species
- Lower Priority Species
- Blackberry
- Bull thistle
- Common mullein
- Dandelion
- Klamathweed
- Oxeye daisy
- Velvet grass



# 2015 Invasive Species Work Plan

## 3.6 Mariposa Grove



### Map Symbols

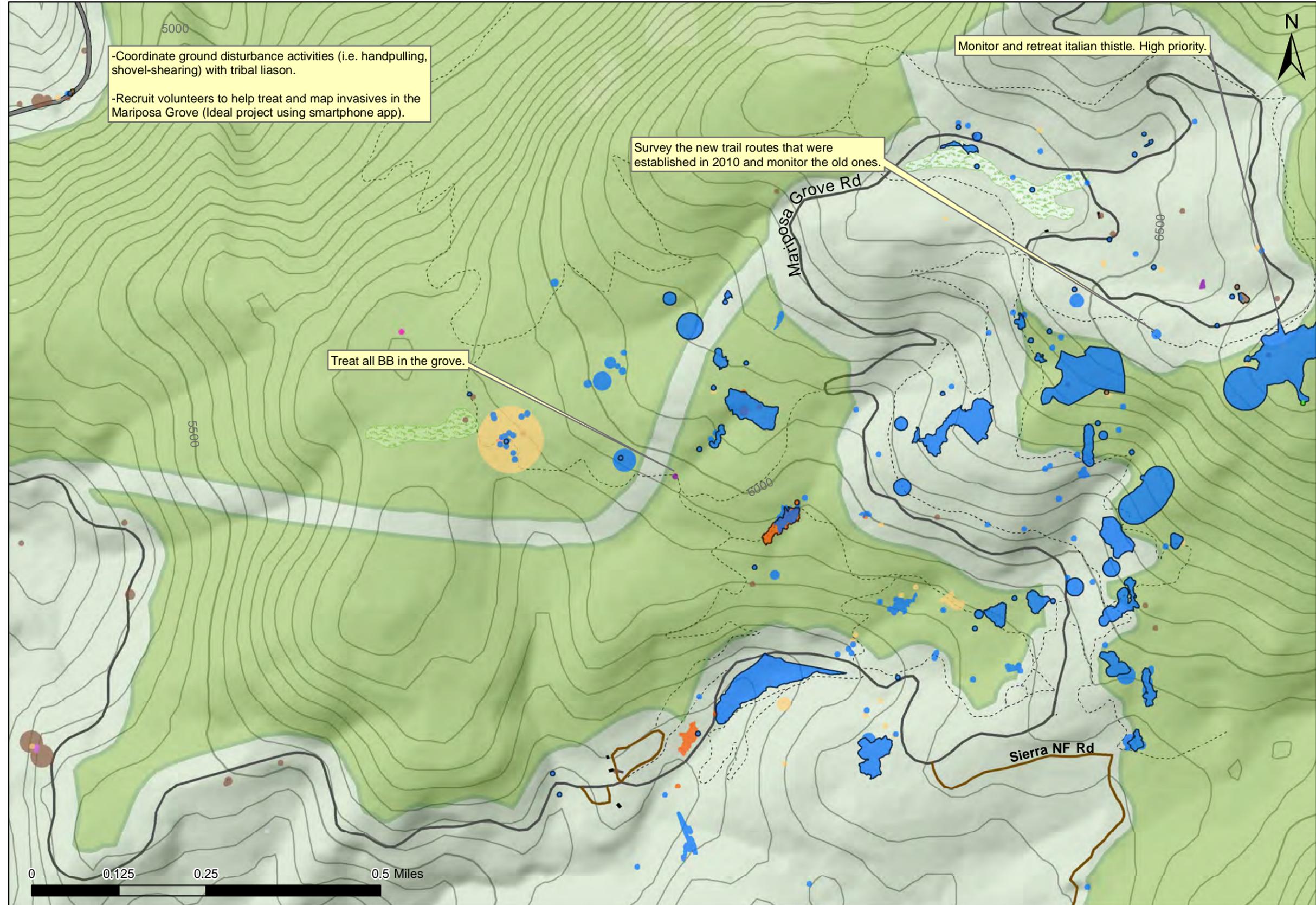
- |                 |             |
|-----------------|-------------|
| Park Boundary   | Buildings   |
| Wilderness      | Lakes       |
| Fire Perimeters | Reservoirs  |
| Roads           | Wet meadows |
| Trails          | Rivers      |

### Invasive Treatments

- Treated in 2014   Treatment Studies

### Invasive Plants

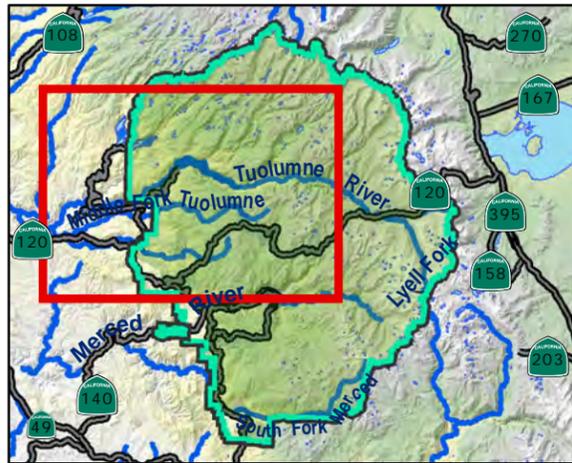
- Early Detection Species
- Lower Priority Species
- Blackberry
- Bull thistle
- Common mullein
- Dandelion
- Klamathweed
- Velvet grass



# 2015 Invasive Species Work Plan

## 4.0 Northern Yosemite/Rim Fire

Yosemite National Park  
Resources Management and Science  
U.S. Department of the Interior

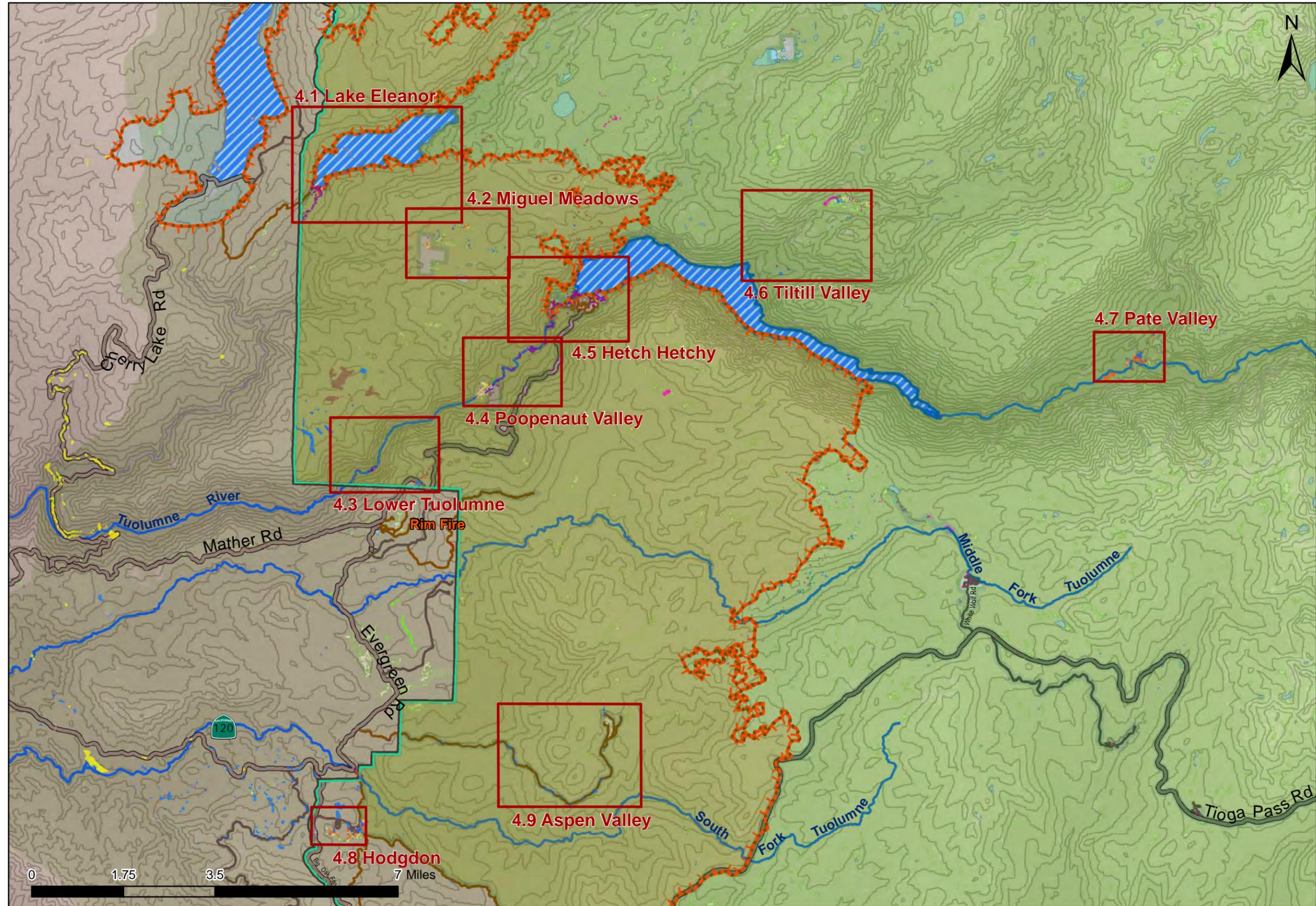


### Map Symbols

- |                 |             |
|-----------------|-------------|
| Park Boundary   | Buildings   |
| Wilderness      | Lakes       |
| Fire Perimeters | Reservoirs  |
| Roads           | Wet meadows |
| Trails          | Rivers      |

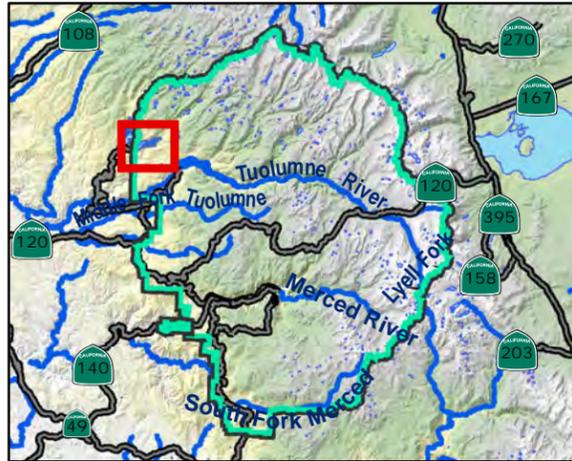
### Invasive Plants

- Early Detection Species
- Lower Priority Species
- Blackberry
- Broom Species
- Bull thistle
- Common mullein
- Dandelion
- Hops
- Klamathweed
- Oxeye daisy
- Spotted knapweed
- Velvet grass
- Yellow star-thistle



# 2015 Invasive Species Work Plan

## 4.1 Lake Eleanor



### Map Symbols

Park Boundary	Buildings
Wilderness	Lakes
Fire Perimeters	Reservoirs
Roads	Wet meadows
Trails	Rivers

### Invasive Treatments

Treated in 2014	Treatment Studies
-----------------	-------------------

### Invasive Plants

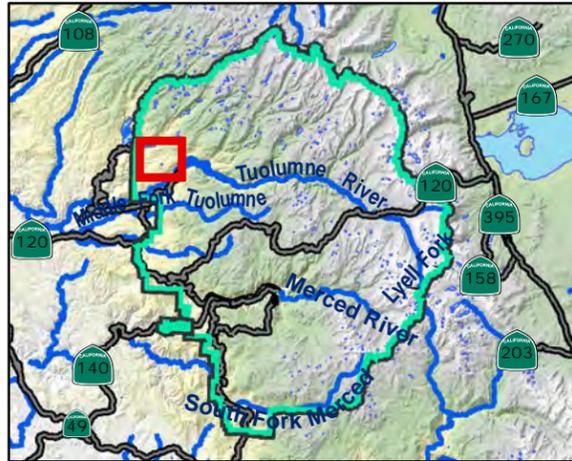
Lower Priority Species
Blackberry
Bull thistle
Common mullein
Dandelion
Klamathweed
Velvet grass



# 2015 Invasive Species Work Plan

## 4.2 Miguel Meadows

Yosemite National Park  
Resources Management and Science  
U.S. Department of the Interior



### Map Symbols

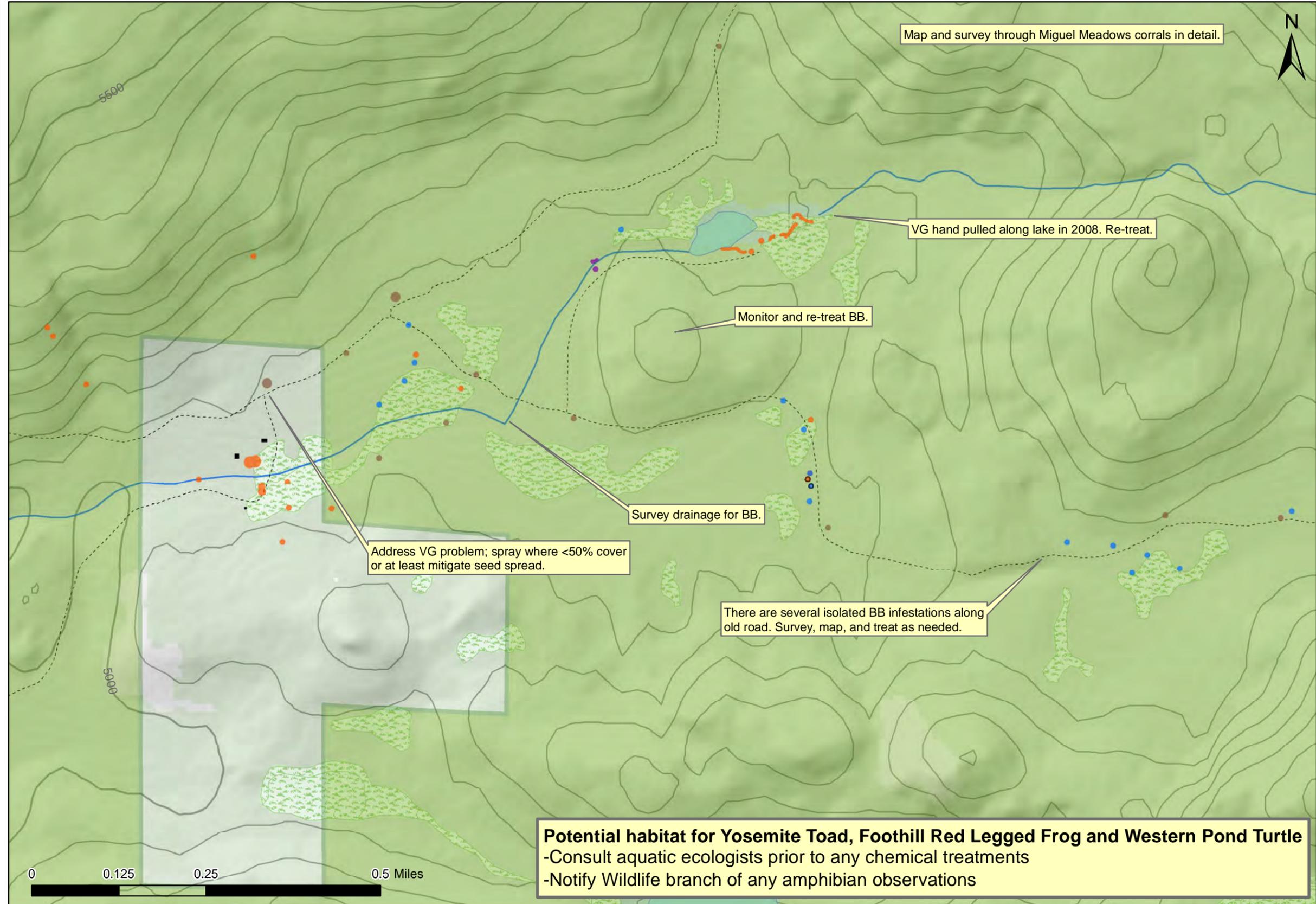
- |                 |             |
|-----------------|-------------|
| Park Boundary   | Buildings   |
| Wilderness      | Lakes       |
| Fire Perimeters | Reservoirs  |
| Roads           | Wet meadows |
| Trails          | Rivers      |

### Invasive Treatments

- Treated in 2014   Treatment Studies

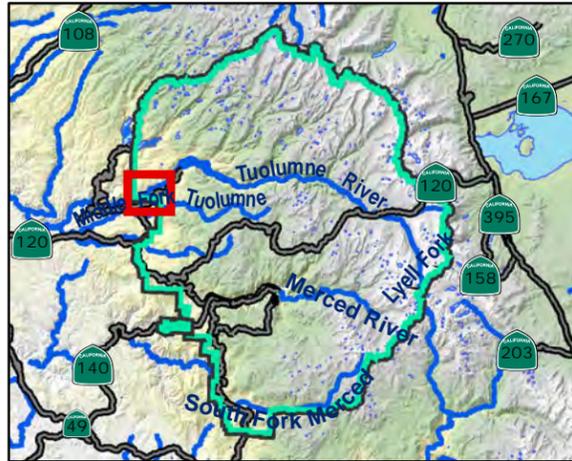
### Invasive Plants

- Lower Priority Species
- Blackberry
- Bull thistle
- Velvet grass



# 2015 Invasive Species Work Plan

## 4.3 Lower Tuolumne



**Map Symbols**

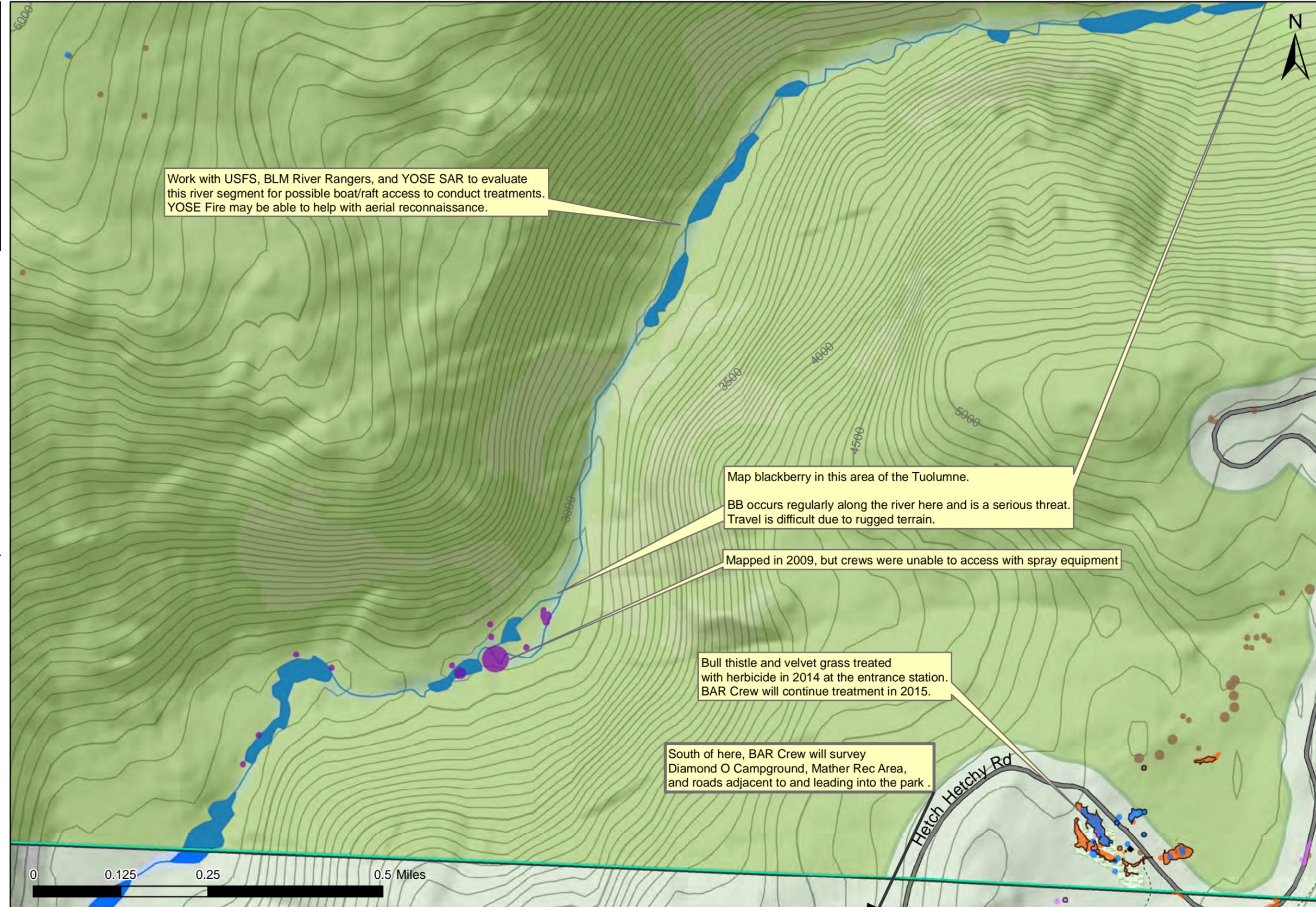
Park Boundary	Buildings
Wilderness	Lakes
Fire Perimeters	Reservoirs
Roads	Wet meadows
Trails	Rivers

**Invasive Treatments**

Treated in 2014   Treatment Studies

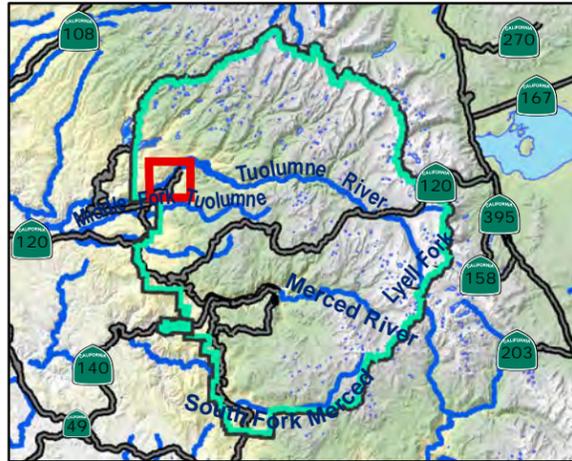
**Invasive Plants**

- Lower Priority Species
- Blackberry
- Bull thistle
- Common mullein
- Klamathweed
- Velvet grass

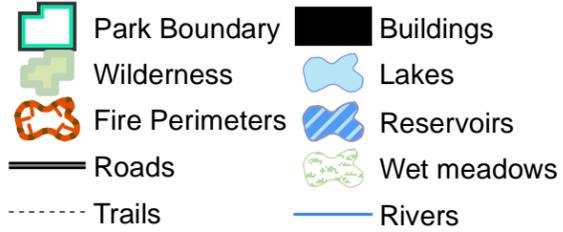


# 2015 Invasive Species Work Plan

## 4.4 Poopenaut Valley



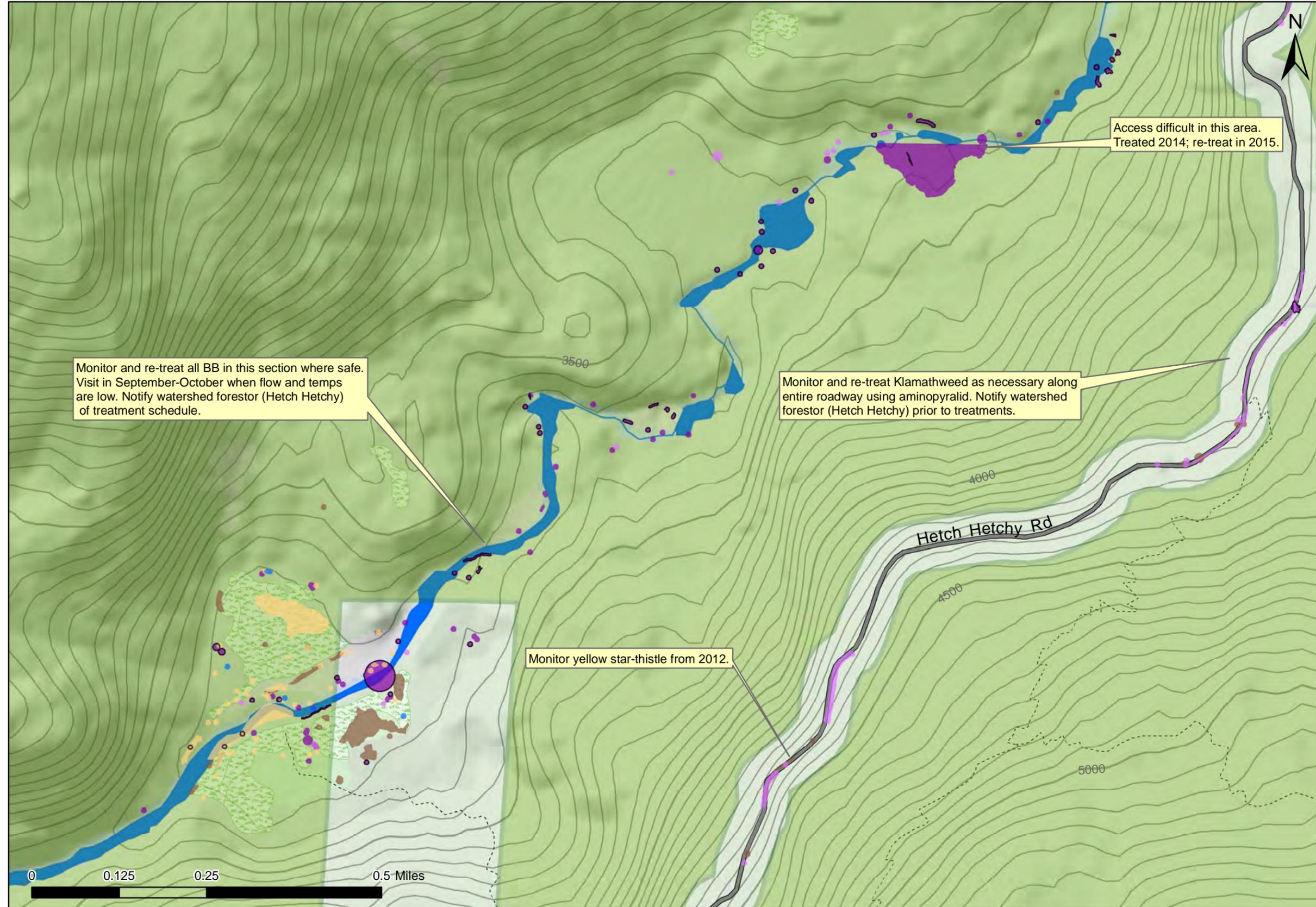
### Map Symbols



### Invasive Treatments



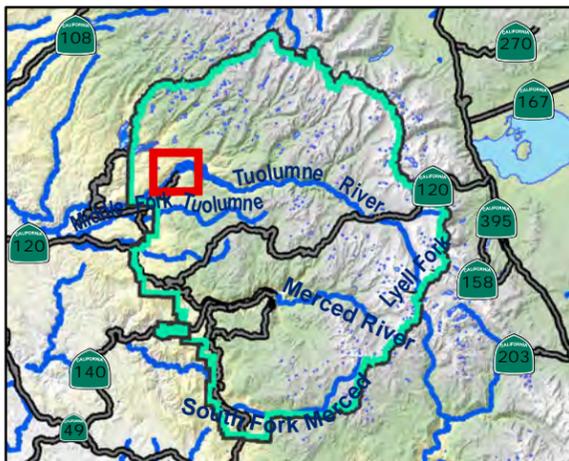
### Invasive Plants



# 2015 Invasive Species Work Plan

## 4.5 Hetch-Hetchy

Yosemite National Park  
Resources Management and Science  
U.S. Department of the Interior



### Map Symbols

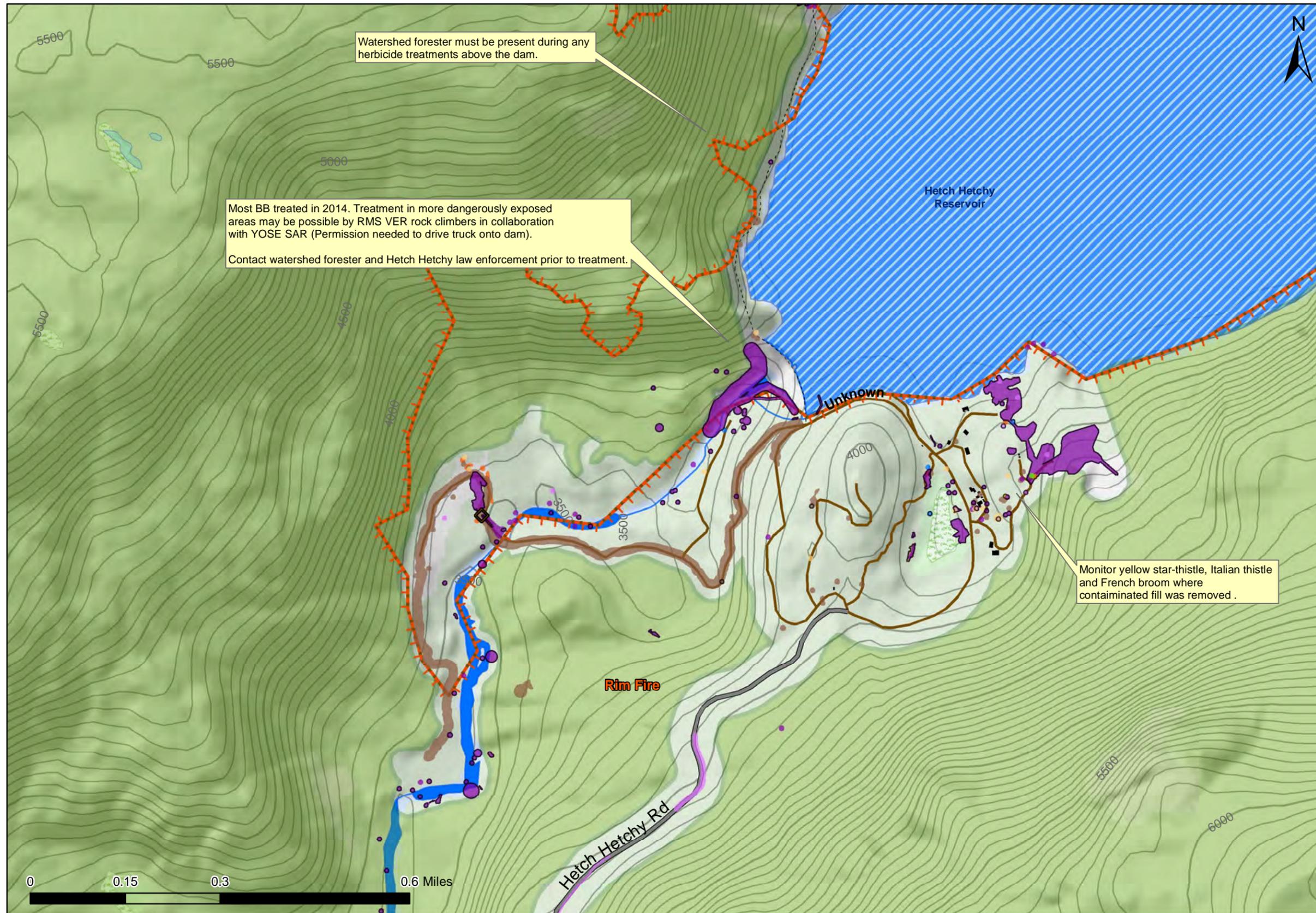
- |                 |             |
|-----------------|-------------|
| Park Boundary   | Buildings   |
| Wilderness      | Lakes       |
| Fire Perimeters | Reservoirs  |
| Roads           | Wet meadows |
| Trails          | Rivers      |

### Invasive Treatments

- Treated in 2014   Treatment Studies

### Invasive Plants

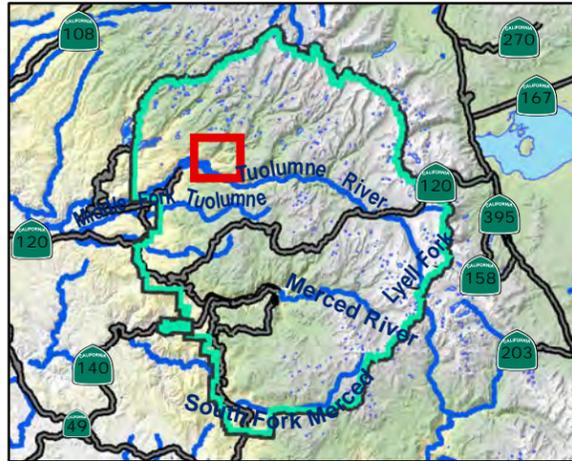
- Early Detection Species
- Lower Priority Species
- Blackberry
- Broom Species
- Bull thistle
- Common mullein
- Klamathweed
- Velvet grass
- Yellow star-thistle



# 2015 Invasive Species Work Plan

## 4.6 Tiltill Valley

Yosemite National Park  
Resources Management and Science  
U.S. Department of the Interior



### Map Symbols

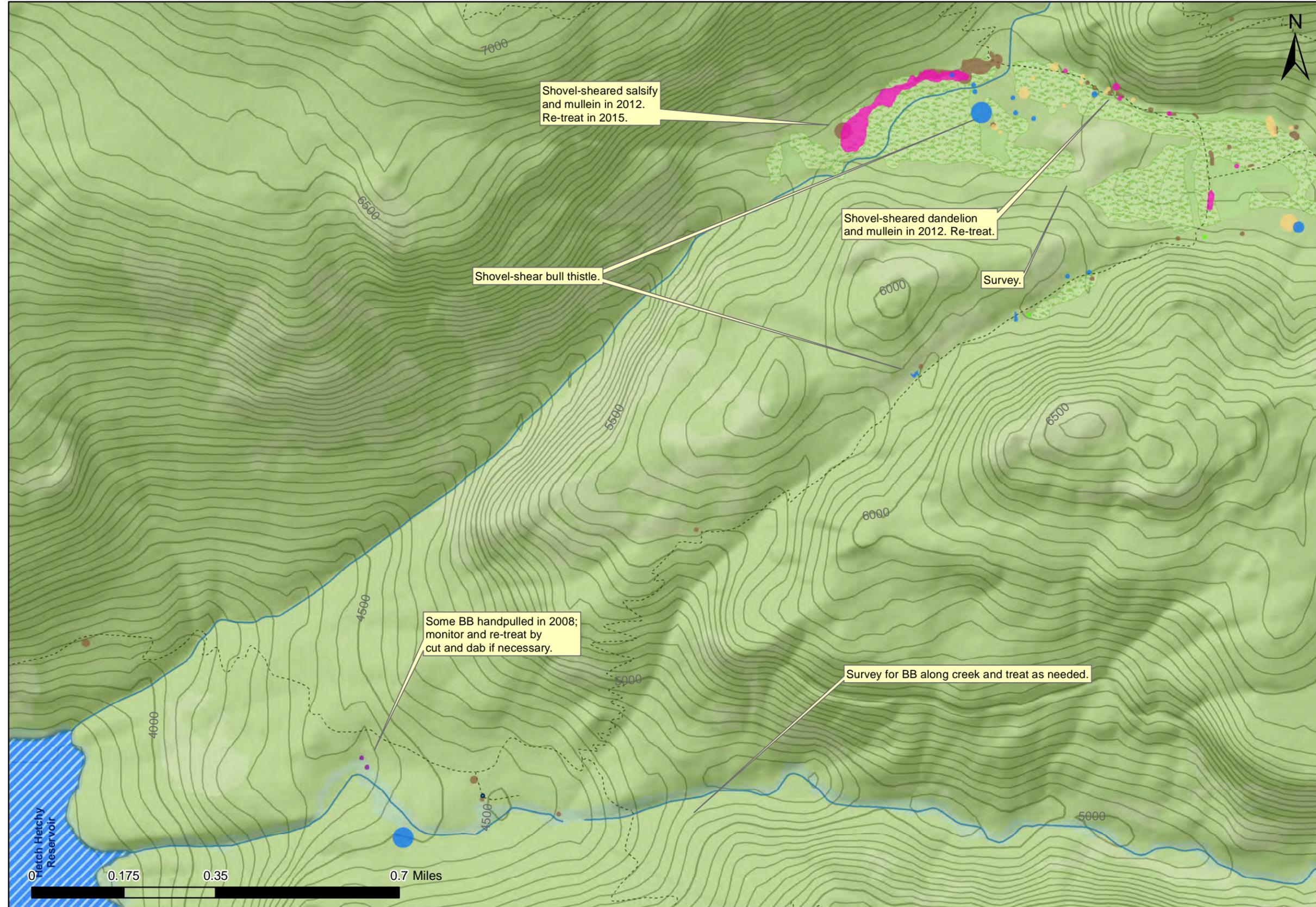
- |                 |             |
|-----------------|-------------|
| Park Boundary   | Buildings   |
| Wilderness      | Lakes       |
| Fire Perimeters | Reservoirs  |
| Roads           | Wet meadows |
| Trails          | Rivers      |

### Invasive Treatments

- Treated in 2014   Treatment Studies

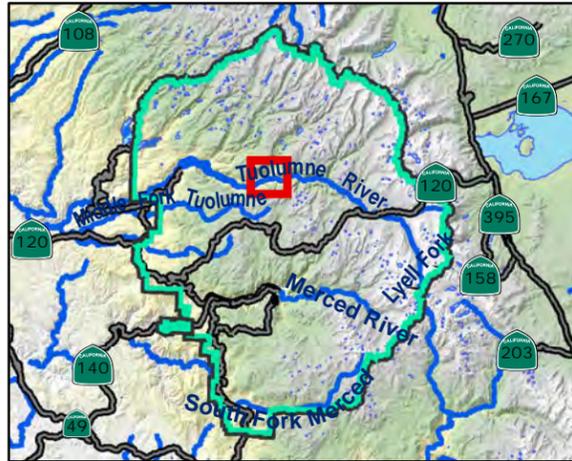
### Invasive Plants

- Early Detection Species
- Lower Priority Species
- Blackberry
- Bull thistle
- Common mullein
- Dandelion



# 2015 Invasive Species Work Plan

## 4.7 Pate Valley



### Map Symbols

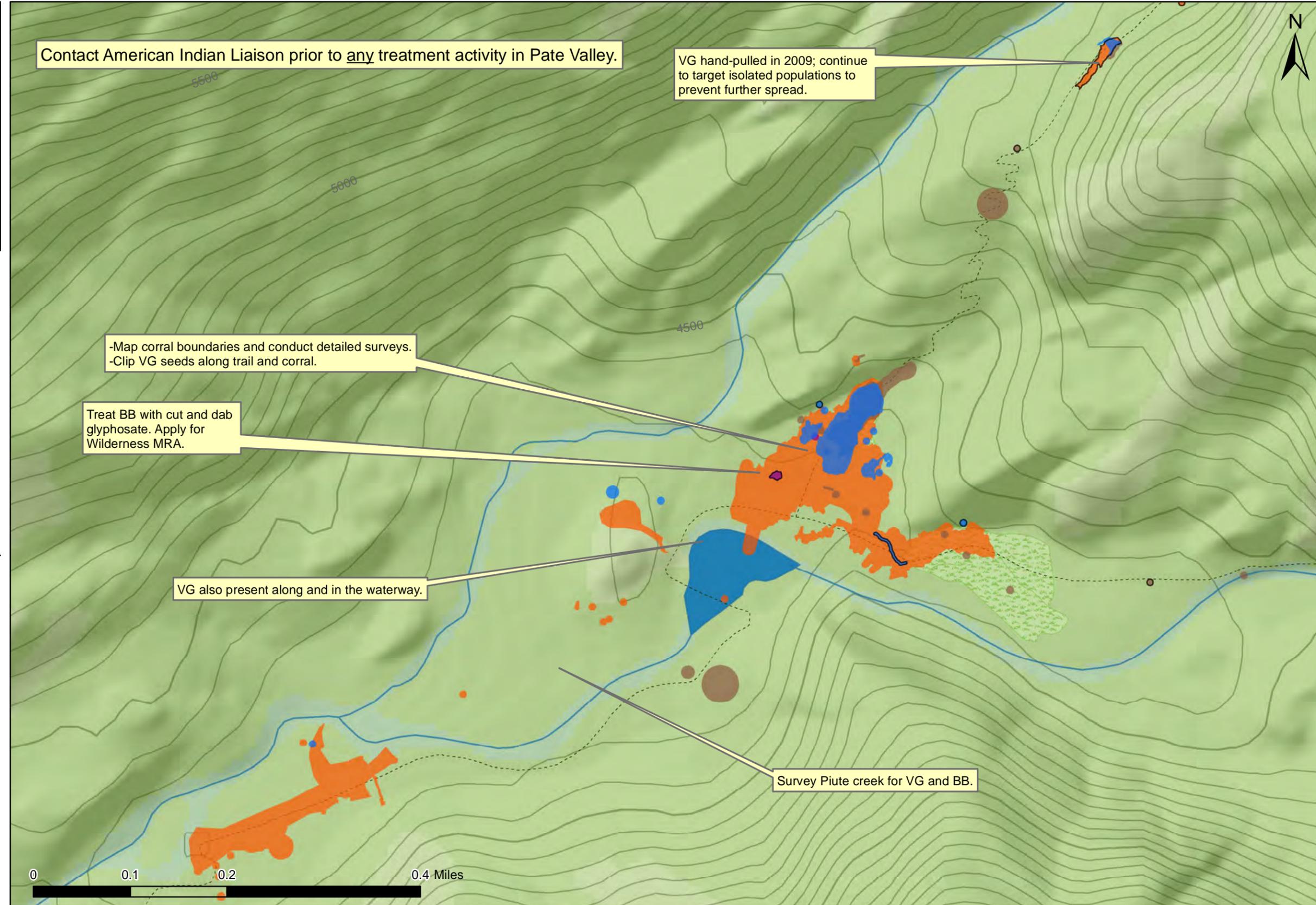
- |                 |             |
|-----------------|-------------|
| Park Boundary   | Buildings   |
| Wilderness      | Lakes       |
| Fire Perimeters | Reservoirs  |
| Roads           | Wet meadows |
| Trails          | Rivers      |

### Invasive Treatments

- Treated in 2014   Treatment Studies

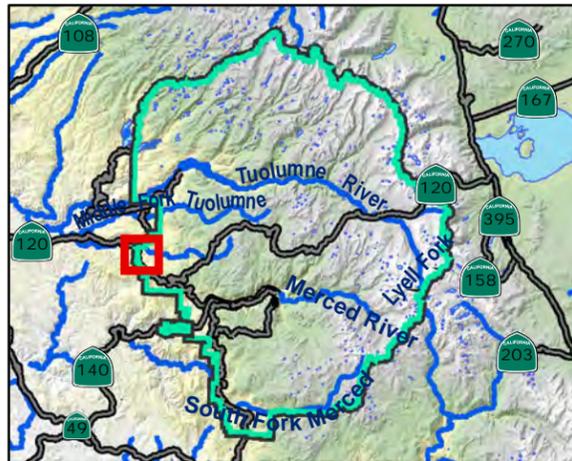
### Invasive Plants

- Lower Priority Species
- Blackberry
- Bull thistle
- Velvet grass

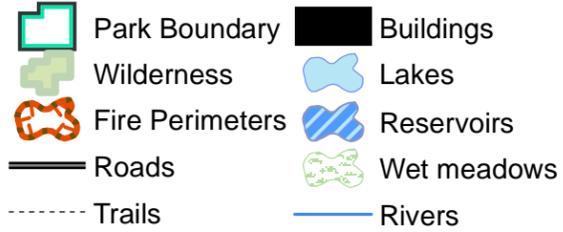


# 2015 Invasive Species Work Plan

## 4.8 Hodgdon



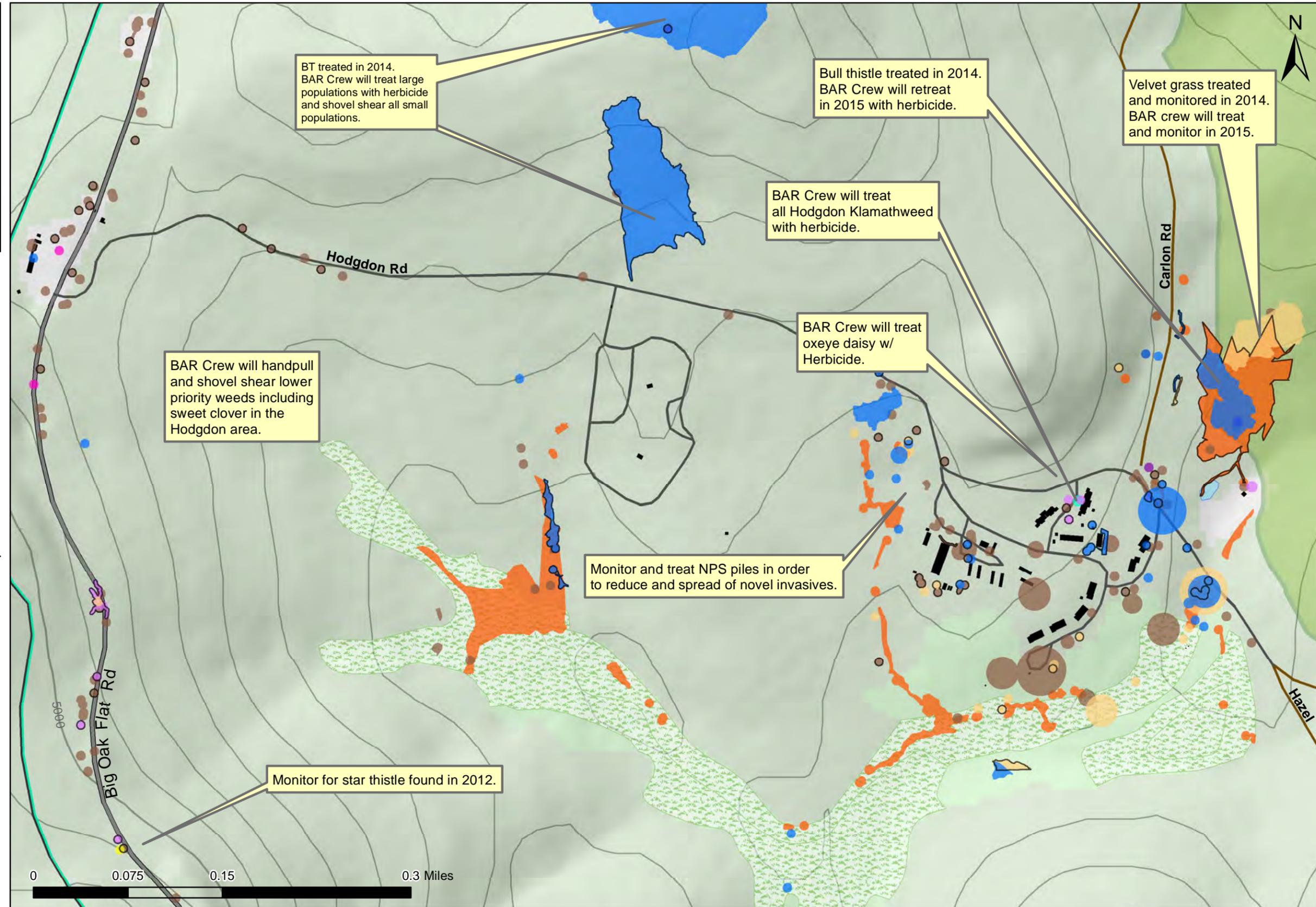
### Map Symbols



### Invasive Treatments

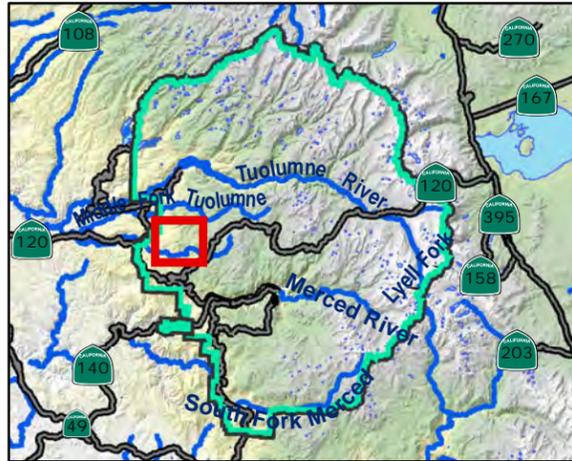


### Invasive Plants



# 2015 Invasive Species Work Plan

## 4.9 Aspen Valley



**Map Symbols**

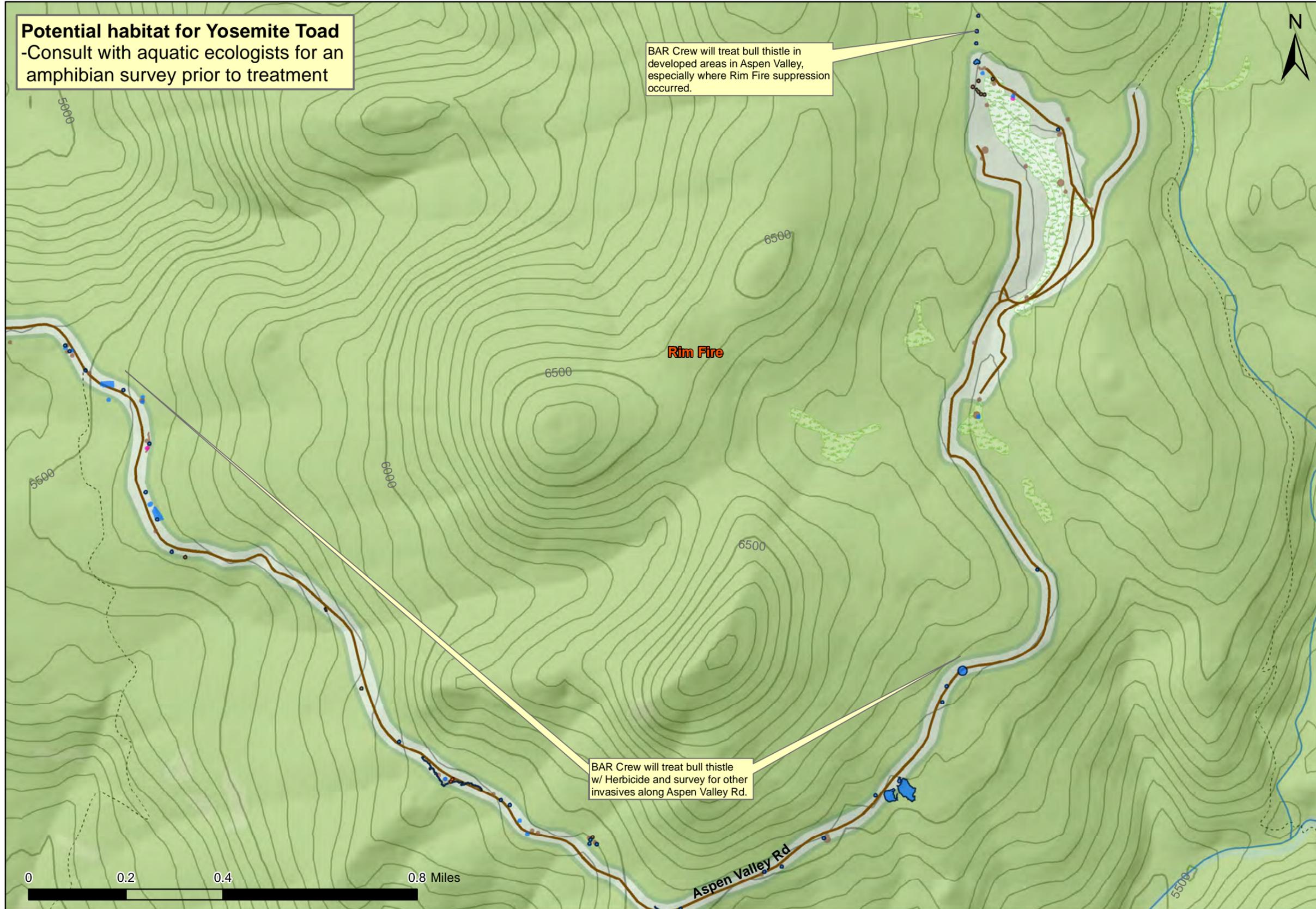
Park Boundary	Buildings
Wilderness	Lakes
Fire Perimeters	Reservoirs
Roads	Wet meadows
Trails	Rivers

**Invasive Treatments**

Treated in 2014   Treatment Studies

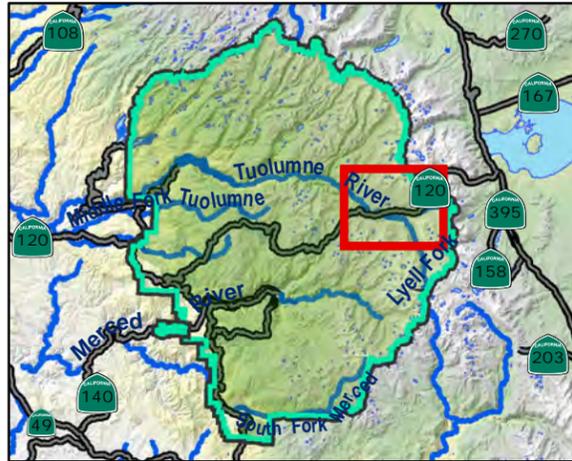
**Invasive Plants**

- Lower Priority Species
- Bull thistle
- Common mullein
- Dandelion
- Velvet grass



# 2015 Invasive Species Work Plan

## 5.0 Tuolumne Meadows

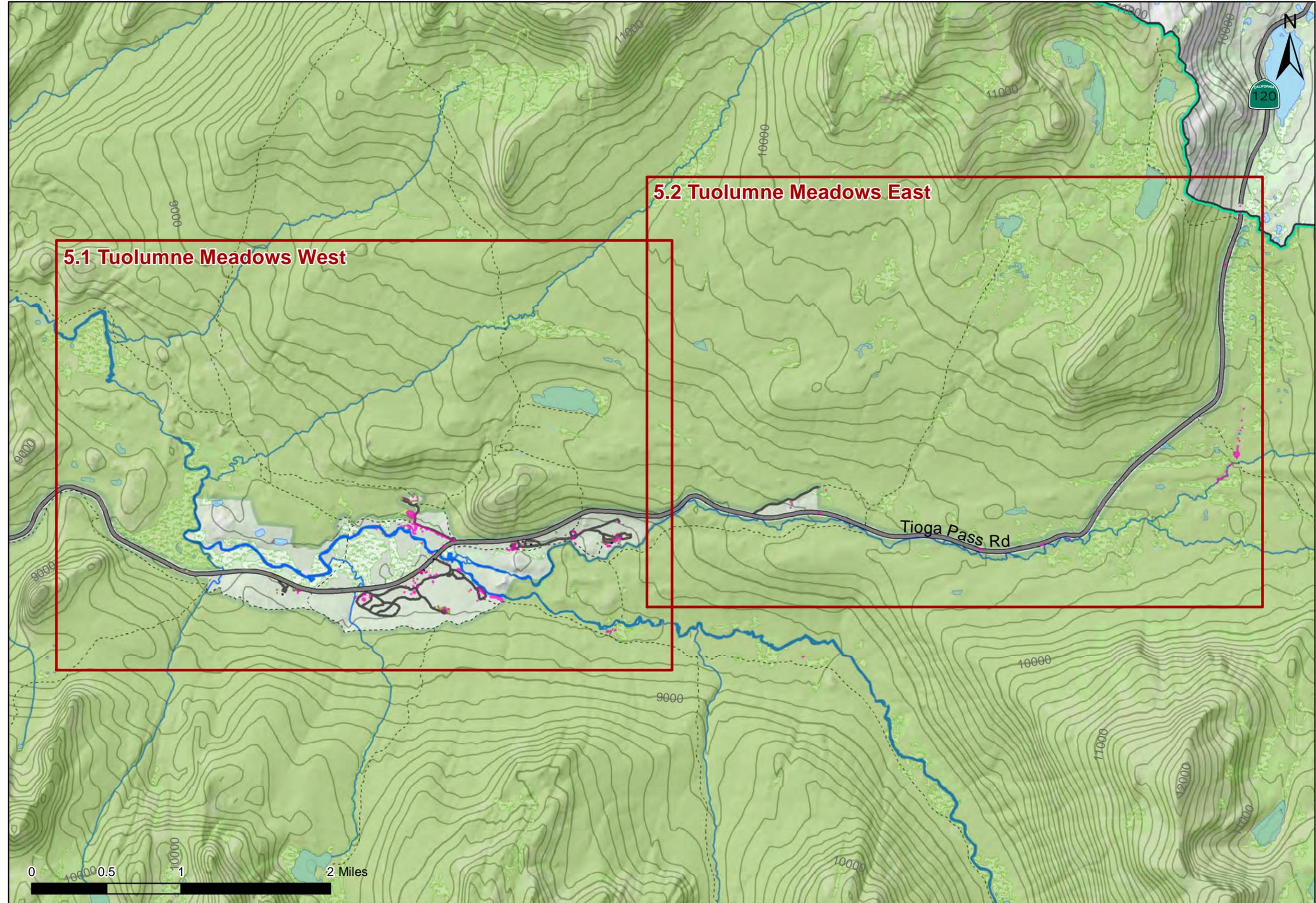


### Map Symbols

- |                 |             |
|-----------------|-------------|
| Park Boundary   | Buildings   |
| Wilderness      | Lakes       |
| Fire Perimeters | Reservoirs  |
| Roads           | Wet meadows |
| Trails          | Rivers      |

### Invasive Plants

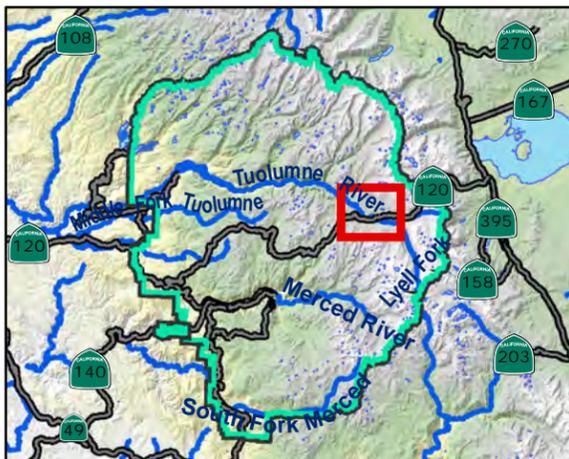
- Early Detection Species
- Lower Priority Species
- Bull thistle
- Common mullein
- Dandelion
- Velvet grass



# 2015 Invasive Species Work Plan

## 5.1 Tuolumne Meadows West

Yosemite National Park  
Resources Management and Science  
U.S. Department of the Interior



### Map Symbols

- |                 |             |
|-----------------|-------------|
| Park Boundary   | Buildings   |
| Wilderness      | Lakes       |
| Fire Perimeters | Reservoirs  |
| Roads           | Wet meadows |
| Trails          | Rivers      |

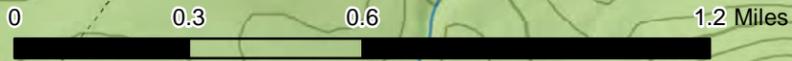
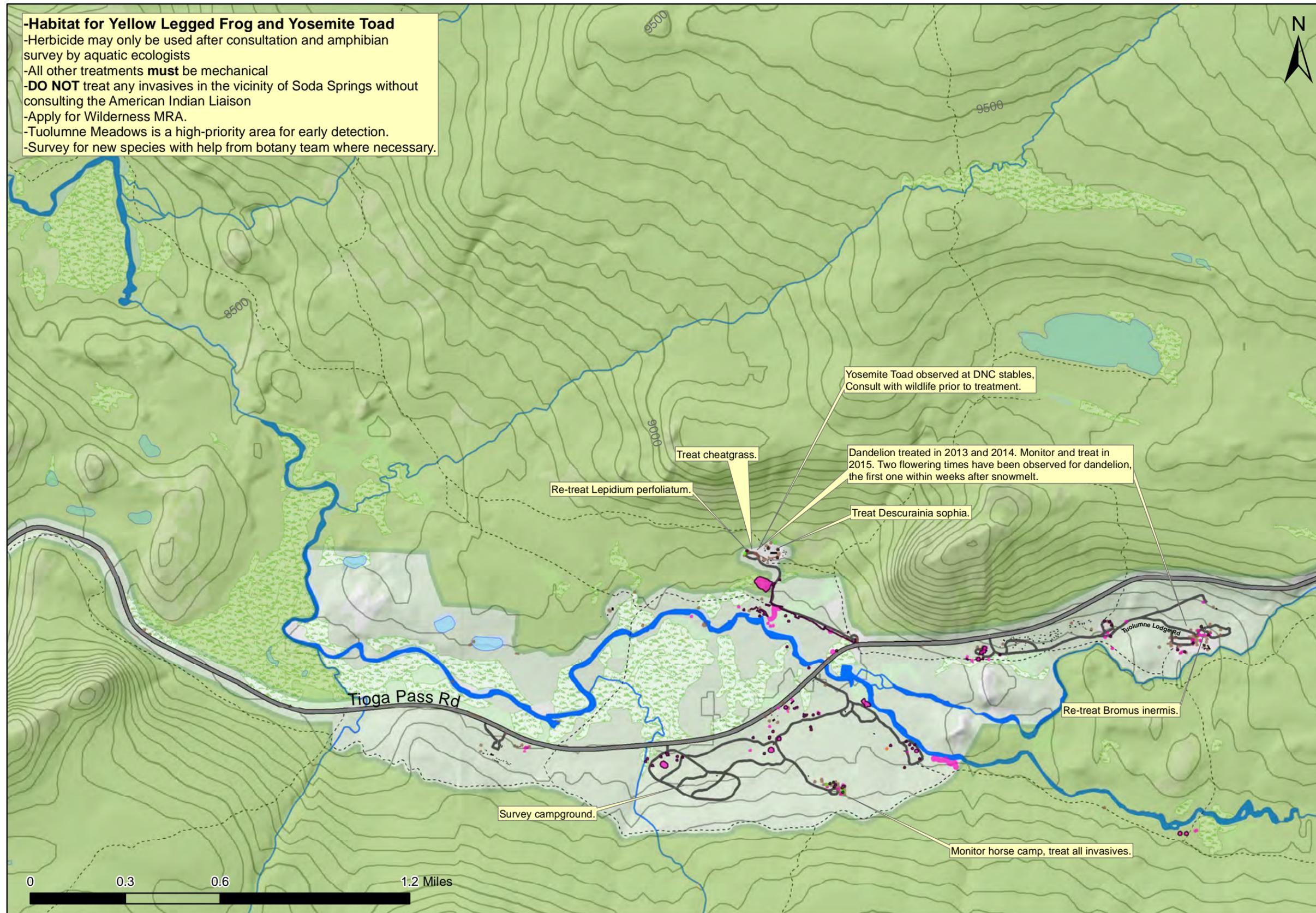
### Invasive Treatments

- Treated in 2014   Treatment Studies

### Invasive Plants

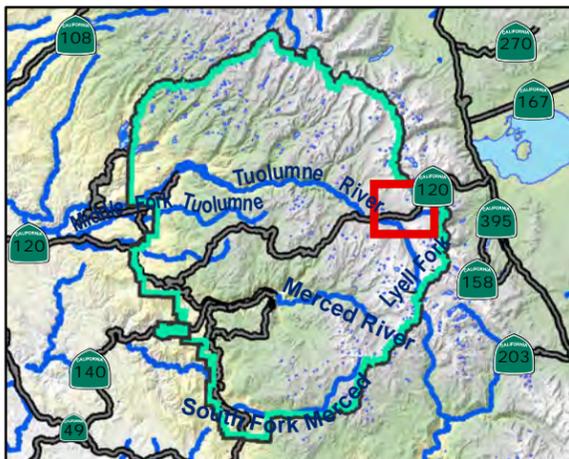
- Early Detection Species
- Lower Priority Species
- Bull thistle
- Common mullein
- Dandelion
- Velvet grass

**-Habitat for Yellow Legged Frog and Yosemite Toad**  
 -Herbicide may only be used after consultation and amphibian survey by aquatic ecologists  
 -All other treatments **must** be mechanical  
**-DO NOT** treat any invasives in the vicinity of Soda Springs without consulting the American Indian Liaison  
 -Apply for Wilderness MRA.  
 -Tuolumne Meadows is a high-priority area for early detection.  
 -Survey for new species with help from botany team where necessary.



# 2015 Invasive Species Work Plan

## 5.2 Tuolumne Meadows East



**Map Symbols**

Park Boundary	Buildings
Wilderness	Lakes
Fire Perimeters	Reservoirs
Roads	Wet meadows
Trails	Rivers

**Invasive Treatments**

Treated in 2014   Treatment Studies

**Invasive Plants**

Lower Priority Species  
 Bull thistle  
 Dandelion

