2019 Invasive Plant Work Plan

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

Map Features

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

Treatment Annotations

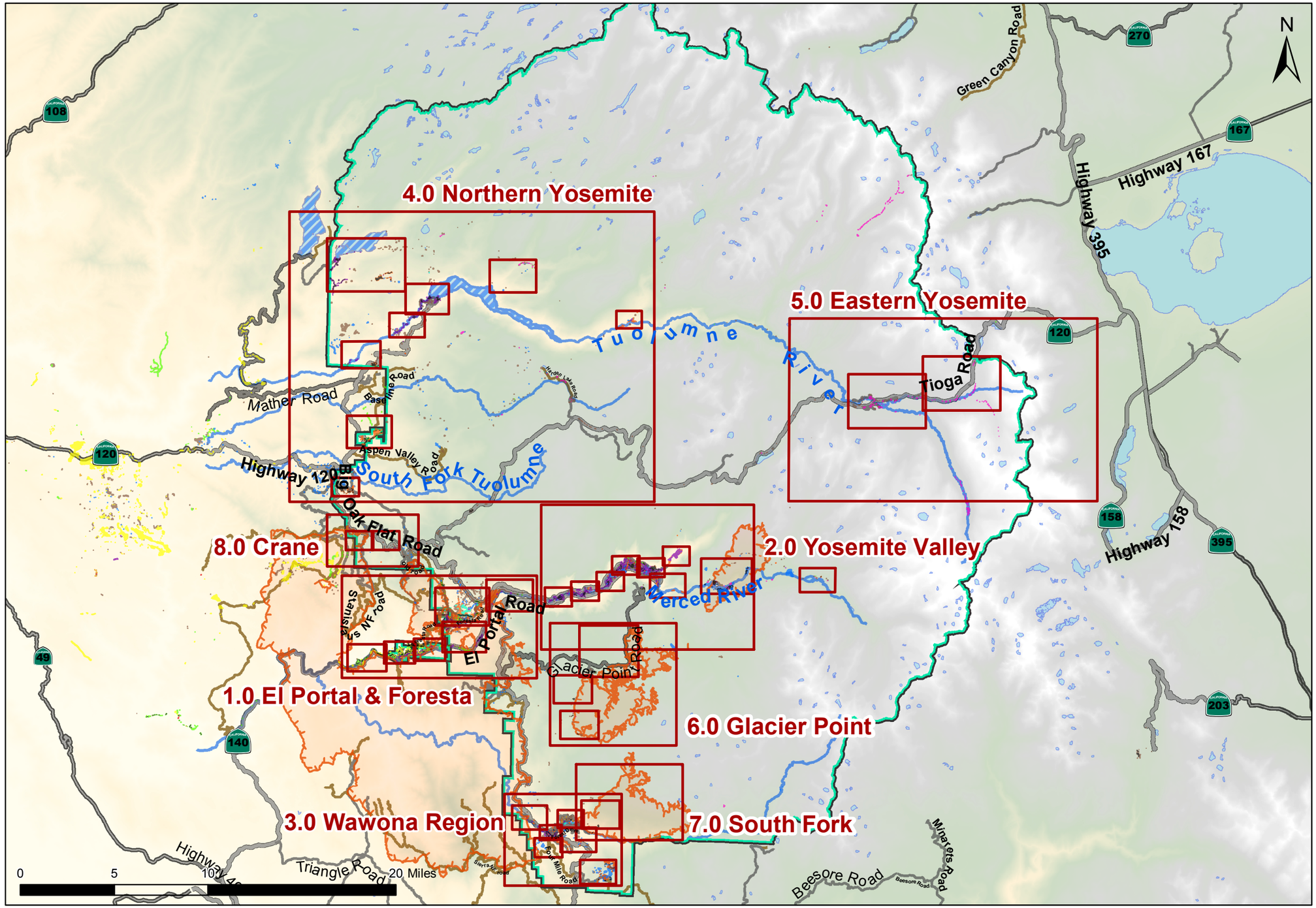
- Early Detection
- High priority
- Blackberry
- Low priority

Invasive Treatments

- Treated in 2018

Invasive Plant Species

- Early Detection Species
- Rubus sp.
- Broom Species
- Cirsium vulgare
- Taraxacum officianale
- Leucanthemum vulgare
- Perennial Woody Species
- Holcus lanatus
- Centaurea solstitialis
- Lower Priority Species



2019 Invasive Plant Work Plan

1.0 El Portal & Foresta

Yosemite National Park
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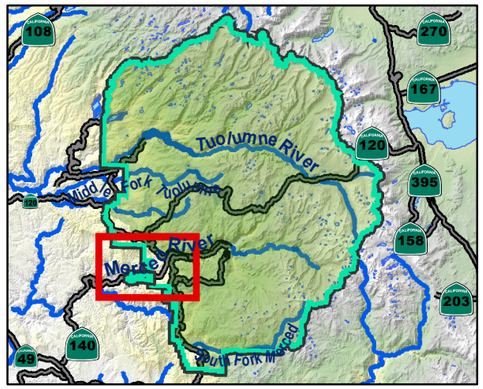

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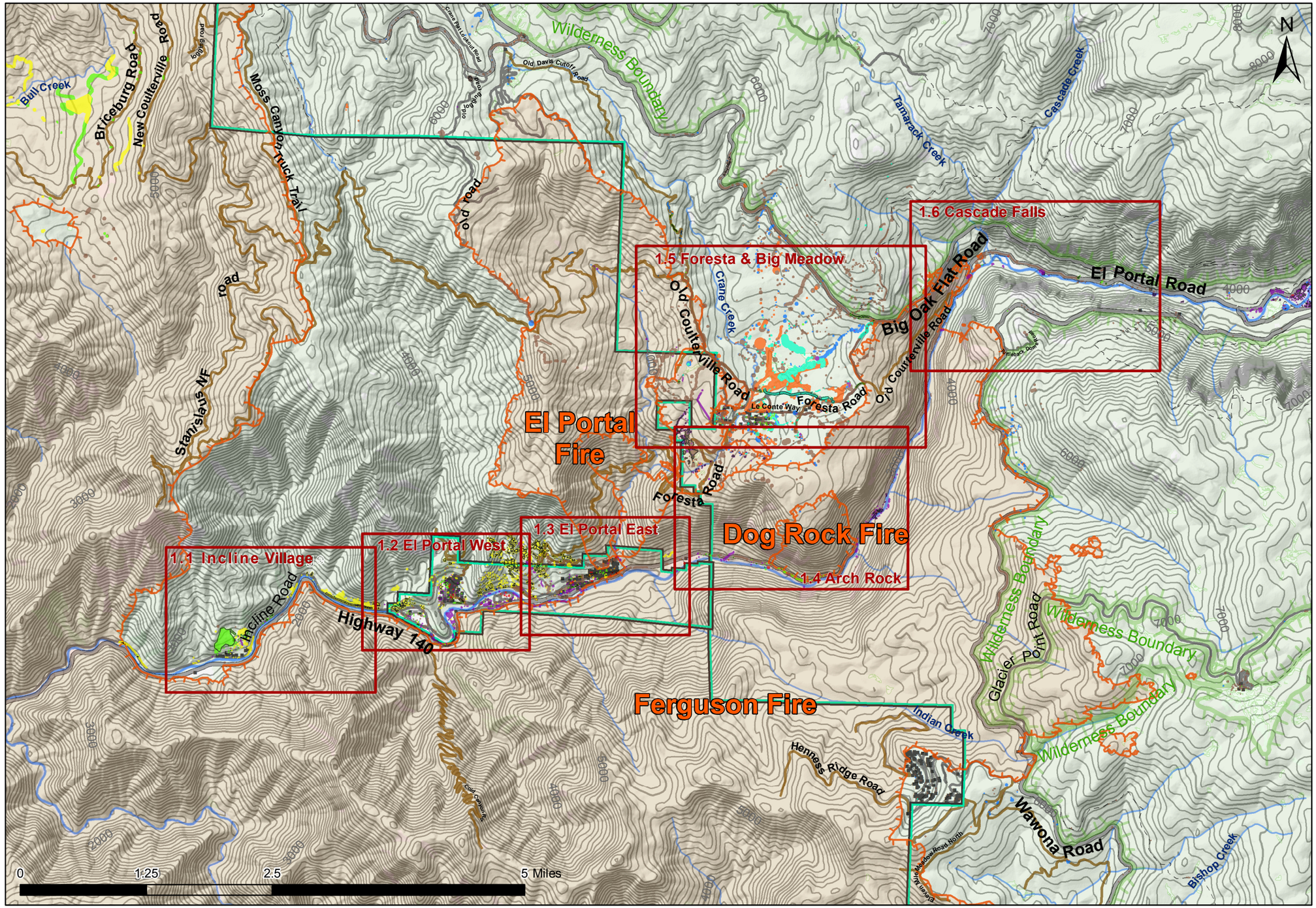

2019 Invasive Plant Work Plan

1.1 Incline Village

Yosemite National Park
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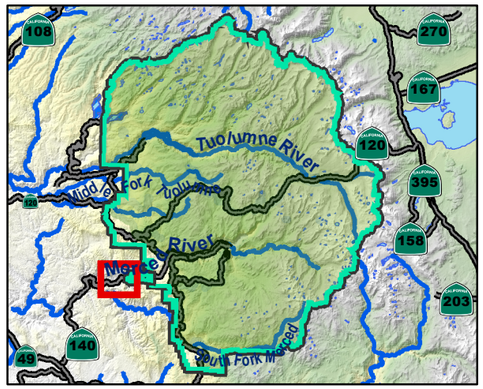

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Invasive Treatments

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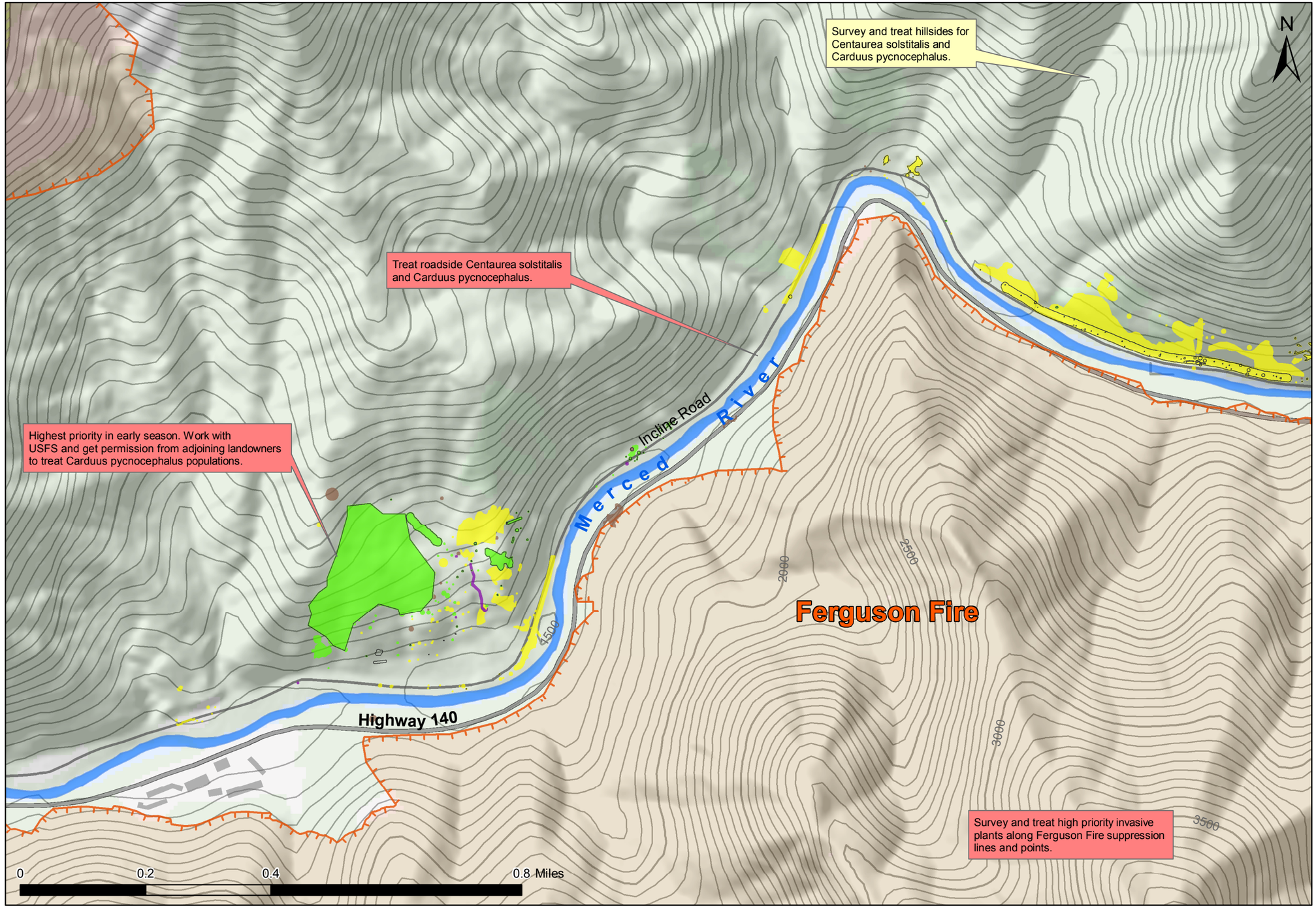

2019 Invasive Plant Work Plan

1.2 El Portal West

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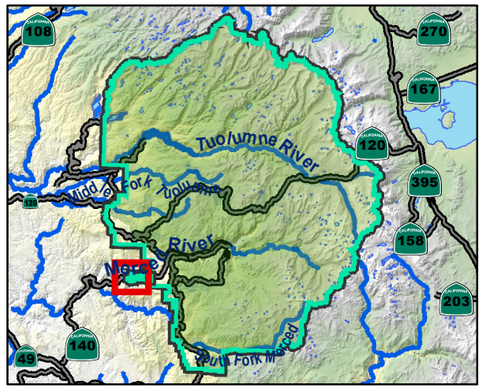

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- Low priority

Invasive Treatments

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Invasive Plant Species

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- Rubus sp.
- Broom Species
- Cirsium vulgare
- Perennial Woody Species
- Holcus lanatus
- Centaurea solstitialis
- Lower Priority Species

Treat all Rubus sp. in El Portal as time allows.

The NPS recommends that Old El Potal permitees address Rubus sp. and other non-native plants themselves. NPS crews can advise and assist as needed.

Survey and treat high priority invasive plants along Ferguson Fire suppression lines and points.

Continue to work in partnership with USFS to treat remaining Centaurea solstitialis infestations with glyphosate.

Handpull power tower Centaurea solstitialis populations

Sorghum halpense; survey and treat.

Monitor Daucus carota individual found in 2012.

Treat Kickxia spuria at baseball diamond.

Re-treat Rubus armeniacus in Rancheria. Cut and dab around homes.

Monitor Arundo donax treatment.

Lythrum hyssopfolia hand pulled in 2012. Monitor and treat.

Treat all invasives prior to restoration.

Treat Ailanthus altissima in Trailer Court.

Treat and monitor Genista monspessulana

Monitor Centaurea stoebe.

Monitor and treat Dysphania ambrosioides.

Treat Kickxia spuria around RMS bldg.

Treat Sisymbrium orientale at Sewage Treatment Ponds.

Treat Elymus caput-medusae.

Untreated Rubus armeniacus remains on south side of road within NPS. Grid, survey, and treat.

Aegilops cylindrica Monitor and treat with herbicide.

Treat roadside annual grasses with herbicide and weed wacking.

Ferguson Fire

2019 Invasive Plant Work Plan

1.3 El Portal East

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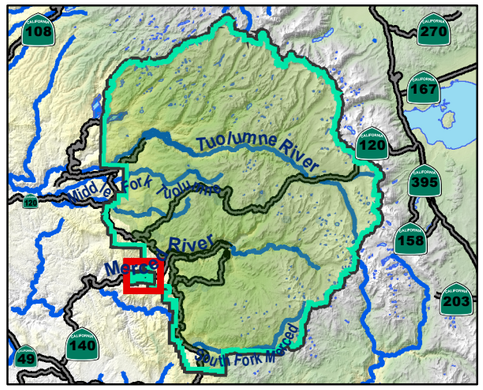

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Treatment Annotations

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- Low priority

Invasive Treatments

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Invasive Plant Species

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- Broom Species
- Cirsium vulgare
- Leucanthemum vulgare
- Perennial Woody Species
- Holcus lanatus
- Centaurea solstitialis
- Lower Priority Species

Continue to survey area above El Portal for isloated patches of Centaurea sostitialis.

All Rubus armeniacus in El Portal will be retreated with glyphosate. The NPS recommends that Old El Portal permitees address non-native plants themselves. NPS crews can advise and assist as needed.

Coordinate with Forestry to treat Ailanthus altissima in El Portal

Handpull and treat with herbicide Tribulus terrestris along roadsides.

Treat Phytolacca americana with herbicide and cut stump.

Treat Ailanthus altissima, cut stump with garlon or foliar spray glyphosate.

Monitor Yosemite View hillside for Centaurea solstitialis populations.

Treat Hedera helix with Imazapyr.

Treat Sorghum halepense.

Treat Carduus pycnocephalus.

Map and treat Genista monespessulana and Cytisus striatus. Get permission from residents prior to treatment.

Treat Sorghum halepense and Euphorbia lathyris behind McMansion.

Re-treat Rubus armeniacus taking care to avoid valley oaks and other native vegetation.

Monitor for Lythrum hyssopifolia.

Treat Scandix pecten-veneris.

Treat polypogon sp.

Monitor for Dysphania ambrosioides

Re-treat Lathyrus latifolius with aminopyralid.

Survey and treat high priority invasive plants along Ferguson Fire suppression lines and points.

Robina pseudoacacia observed but not mapped on north side of river; survey and treat

2019 Invasive Plant Work Plan

1.4 Arch Rock

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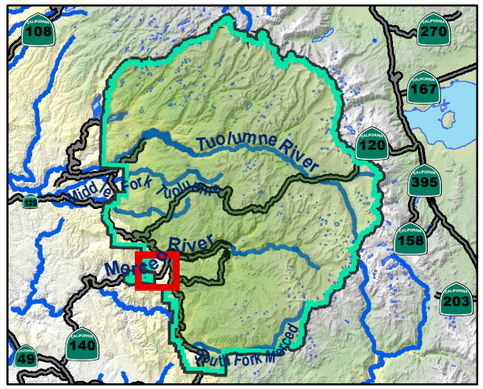

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Treatment Annotations

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Invasive Treatments

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Invasive Plant Species

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- Taraxacum officianale
- Leucanthemum vulgare
- Perennial Woody Species
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- Centaurea solstitialis
- Lower Priority Species

Survey and treat Rubus armeniacus infestations.

Treat newly discovered Centaurea solstitialis; survey for more populations.

Treat all high priority species in Ferguson Fire footprint.

Survey NPS horse pasture and treat for invasive plants, which spread easily via livestock.

Treat Carduus pycnocephalus at Parkline; coordinate with land owner to use herbicide.

Treat all Rubus along Rt 140 and Merced River with glyphosate. Notify American Indian Liaison prior to treatment.

Survey all areas where road construction occured.

Treat Tribulus terrestris and annual grasses along roadside.

Treat Carduus pycnocephalus along roadside; survey for additional populations.

El Portal Fire

Ferguson Fire

Dog Rock Fire

Lyell Way

Crane Creek

Highway 140

El Portal Road

Merced River

4000

4500

3500

3000

2500

N

0 0.225 0.45 0.9 Miles

2019 Invasive Plant Work Plan

1.5 Foresta & Big Meadow

Yosemite National Park
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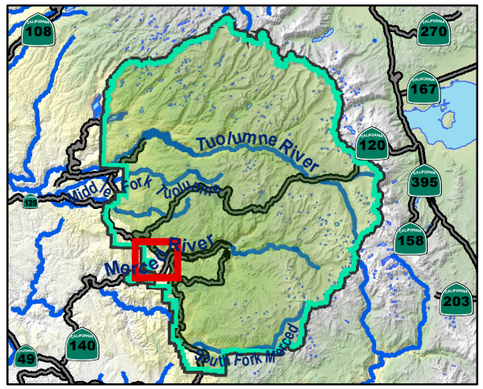
U.S. Department of the Interior



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- Lower Priority Species

Survey and treat high priority invasive plants related to Ferguson Fire suppression lines and points,

Notify tribes prior to herbicide use in Big Meadow.

Re-treat and survey for Elymus caput-medusae along Old Coulterville Rd.

Treat Leucanthemum vulgare.

Ensure followup of C. solstitialis survey along Big Oak Flat Rd.

Treat Hypericum perforatum along Big Oak Flat Rd.

Re-treat all Leucanthemum vulgare with aminopyralid.

Treat Aegilops triuncialis and Elymus caput-medusae.

Treat all low priority invasive plants on soil piles.

Treat all Rubus armeniacus with glyphosate.

Treat Elymus caput-medusae.

Treat Carduus pycnocephalus and Silybum marianum.

Grid search for Centaurea stoebe; treat with aminopyralid.

Centaurea cyanis; treat when convenient (not a priority species).

Survey for Centaurea solstitialis near Dana Way and McCauley Ranch.

Roads staging area; survey for novel invasives.

Grid housing areas for high priority species.

Treat Rubus

Treat Hypericum perforatum.

Big Oak Flat Road

Wilderness Boundary

Old Coulterville Road

Flying Spur Road

Crane Creek

Foresta Road

Campground Road

Meadow Way

Muir Way

1st Street

2nd Street

Yosemite Way

Le Conte Way

Dana Way

Lyell Way

El Portal Road

Merced River

El Portal Fire

Ferguson Fire

4500

5500

5000

4000

3500

3000

N

0 0.275 0.55 1.1 Miles

2019 Invasive Plant Work Plan

1.6 Cascade Falls

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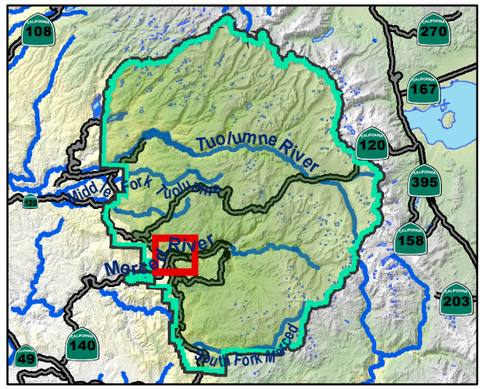

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Invasive Plant Species

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- Perennial Woody Species
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- Lower Priority Species

Survey and treat high priority invasive plants related to Ferguson Fire suppression lines and points.

Manually remove invasives in pollinator restoration site along creek with volunteers.

Treat Hypericum perforatum along Big Oak Flat Road

Treat Chondrilla juncea populations. Survey for new populations

Survey for Carduus pycnocephalus at Cascade Picnic Area.

Treat riverside Rubus populations

Tamarack Creek

Cascade Creek

Wilderness Boundary

Merced River

Big Oak Flat Road

Old Coulterville Road

El Portal Road

Wawona Road

Turtleback Dome Road

Ferguson Fire

4500

5000

6000

6500

3500

5500

N

0 0.25 0.5 1 Miles

2019 Invasive Plant Work Plan

2.0 Yosemite Valley

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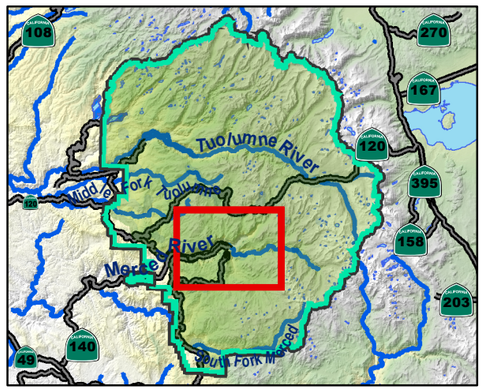
U.S. Department of the Interior



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2019 Invasive Plant Work Plan

2.1 Black Springs

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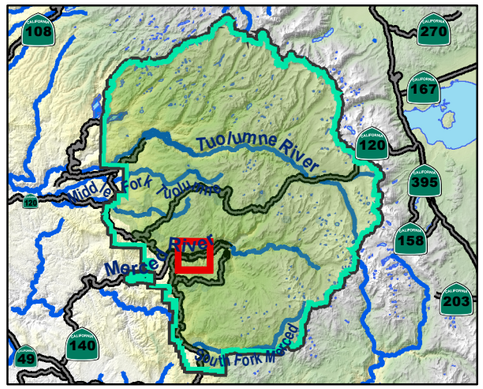

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Notify aquatic ecologist prior to treatment of velvet grass or blackberry. Use aquatic formulations within 10 feet of wetlands or water.

Do not spray if rain is >1/2 inch for 72 hours.

Grid search, map, and treat Rubus sp. north of Northside Drive.

Monitor and handpull Ambrosia acanthicarpa.

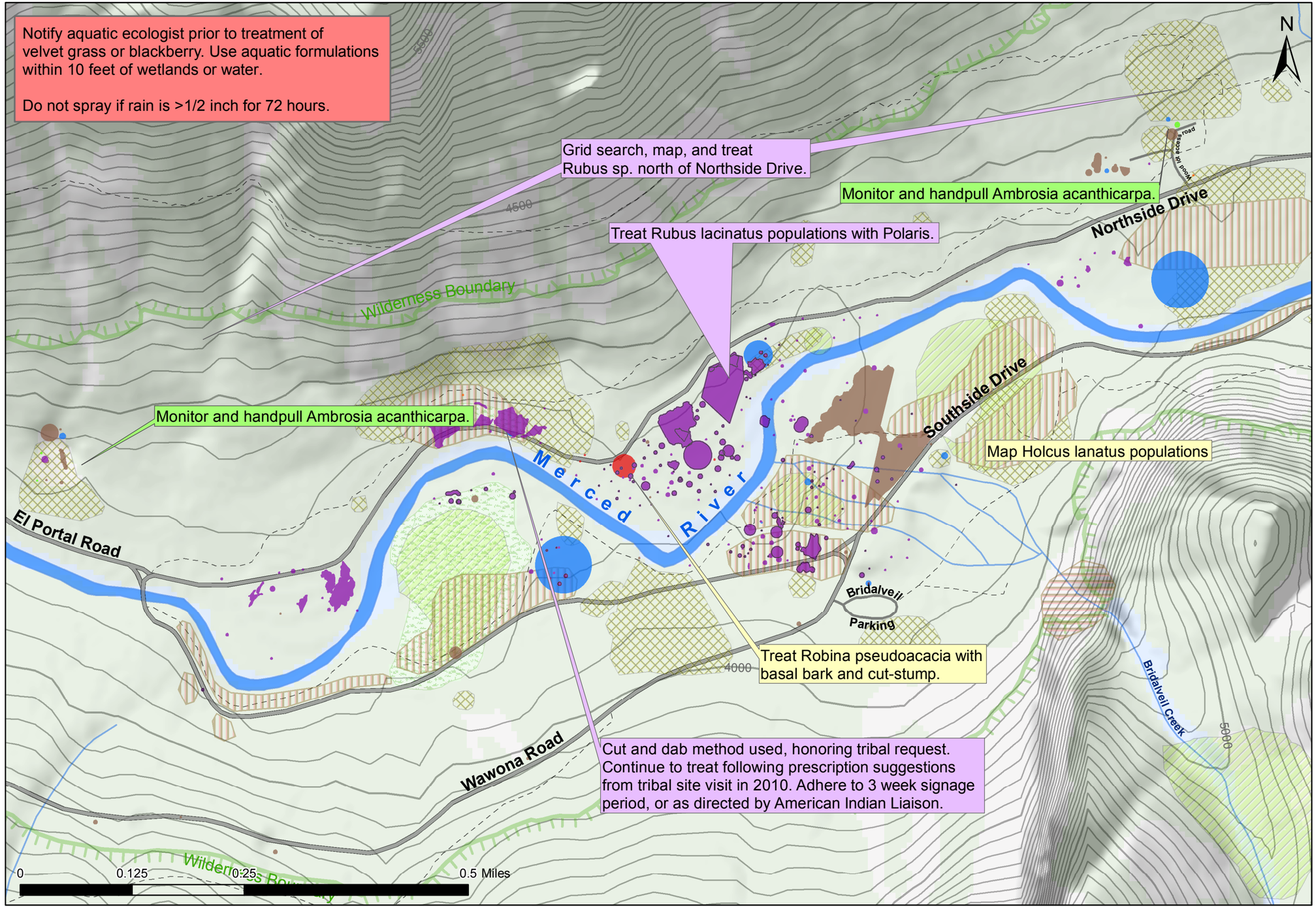
Treat Rubus lacinatus populations with Polaris.

Monitor and handpull Ambrosia acanthicarpa.

Map Holcus lanatus populations

Treat Robina pseudoacacia with basal bark and cut-stump.

Cut and dab method used, honoring tribal request. Continue to treat following prescription suggestions from tribal site visit in 2010. Adhere to 3 week signage period, or as directed by American Indian Liaison.



2019 Invasive Plant Work Plan

2.2 El Capitan

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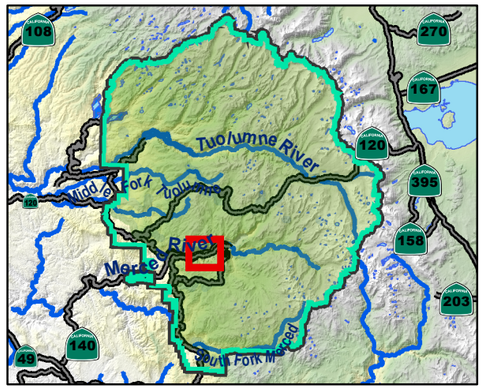

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Notify aquatic ecologist prior to treatment of velvet grass or blackberry. Use aquatic formulations within 10 feet of wetlands or water.

Do not spray if rain is >1/2 inch for 72 hours.

Manually remove invasives in pollinator restoration site with volunteers.

Centaurea stoebe found accross road from El Cap Picnic Area in 2016. Survey and treat as needed.

Coordinate with volunteers to shovel-shear Verbascum thapsus and Cirsium vulgare.

Treat Robina psuedoacatia with cut-stump and basal bark.

Notify aquatic wildlife biologist two weeks prior to herbicide treatment at this site.

2019 Invasive Plant Work Plan

2.3 Sentinel

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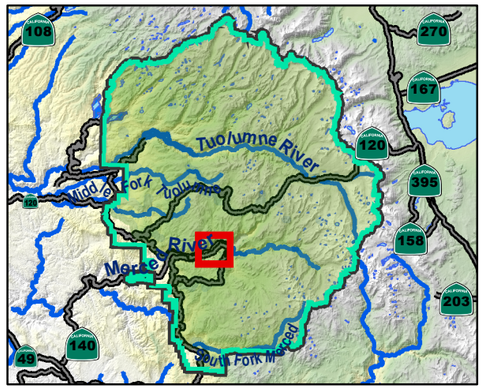

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Since 2012, volunteers handpulled Verbascum thapsus and Cirsium vulgare. Continue treatment.

Notify aquatic wildlife biologist two weeks prior to herbicide treatment at Yellow Pines Campground and West Leidig Meadow

Cut-stump large Robina pseudoacacia; basal bark small individuals.

Notify aquatic ecologist prior to treatment of velvet grass or blackberry. Use aquatic formulations within 10 feet of wetlands or water.

Do not spray if rain is >1/2 inch for 72 hours.

2019 Invasive Plant Work Plan

2.4 Yosemite Village

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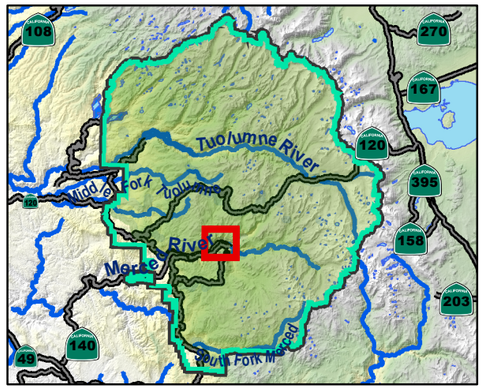

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- Cirsium vulgare
- Taraxacum officianale
- Leucanthemum vulgare
- Perennial Woody Species
- Holcus lanatus
- Centaurea solstitialis
- Lower Priority Species

Consult aquatic wildlife biologist two weeks prior to herbicide treatment in Cook's Meadow.

No ground disturbance

Map and treat Rubus armeniacus patch at Middle Yosemite Falls.

Manually remove invasives in pollinator restoration sites with volunteers.

Survey roadsides for Sorghum halepense.

Map and treat Rubus armeniacus population along Upper Yosemite Falls Trail.

Monitor and treat small population of Amaranthus retroflexus in dry pond.

Handpull dense patch of Sisymbrium irio.

Survey and treat Elymus caput-medusae.

Solanum triflorum and Ambrosia ancanthocarpa found in 2012. Monitor and treat. Any ground disturbance in the stables area must be coordinated with the Archeology Branch.

Notify American Indian Liaison and interpretive rangers in vistitor center before treatment in Indian Village.

Hieracium murorum treated since 2010; re-treat and monitor.

Treat Epipactis.

Treat invasive grasses in Camp 6 construction area including Sorghum halepense.

Treat Lodge parking area for annual invasive grasses.

Survey and treat Day Use Parking and construction staging sites for novel invasives.

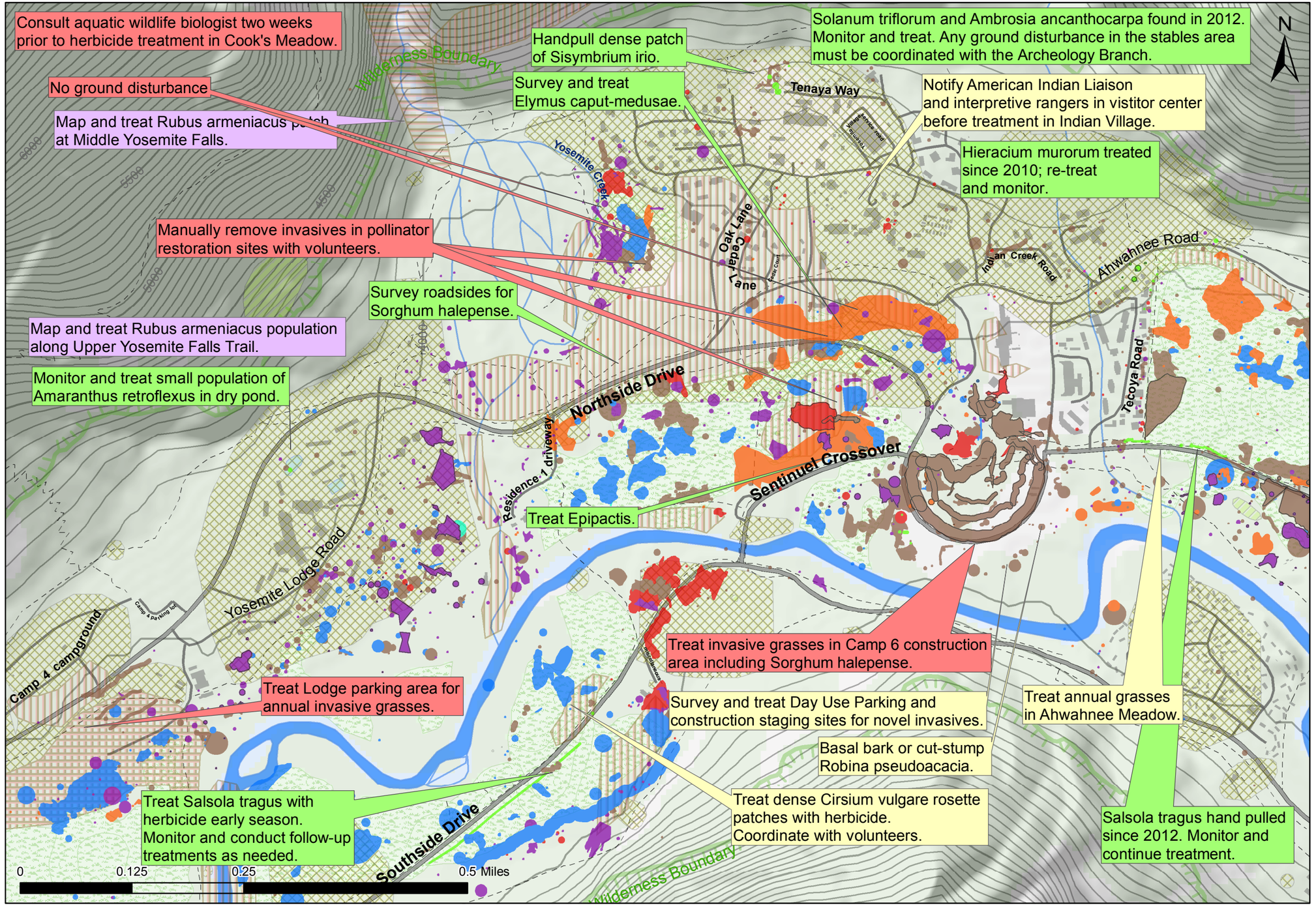
Basal bark or cut-stump Robina pseudoacacia.

Treat dense Cirsium vulgare rosette patches with herbicide. Coordinate with volunteers.

Treat annual grasses in Ahwahnee Meadow.

Salsola tragus hand pulled since 2012. Monitor and continue treatment.

Treat Salsola tragus with herbicide early season. Monitor and conduct follow-up treatments as needed.



2019 Invasive Plant Work Plan

2.5 Half Dome Village

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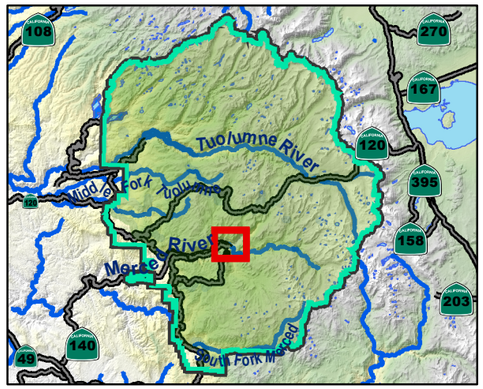

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Treatment Annotations

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Invasive Treatments

- Treated in 2018

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- Leucanthemum vulgare
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- Holcus lanatus
- Lower Priority Species

Coordinate with volunteers to treat Cirsium vulgare within Ahwahnee Meadow prescribed fire
Treat Holcus lanatus in Ahwahnee Meadow.
Check with wildlife biologist and American Indian Liaison.

Treat Hieracium murorum in Ahwahnee Parking lot.

Carduus pycnocephalus found in 2017. Survey and treat.

Staging area; re-treat soil piles and survey for novel invasives.

Notify tribes is using herbicide in gathering areas.

Notify aquatic ecologist prior to treatment of velvet grass or blackberry. Use aquatic formulations within 10 feet of wetlands or water.

Do not spray if rain is >1/2 inch for 72 hours.

Survey cliff base below Royal Arches for previously known Rubus armeniacus population.

Treat Bromus inermis and Holcus lanatus in MRP restoration area.

Treat Rubus sp. in Royal Arches Meadow.
Give 2 weeks notice to American Indian Liaison before treatment.
Also ID and locate rare native orchid (Epipactis) prior to treatment. Within 3m, treat by cut and dab only.

Cut and dab blackberry in campground areas.

Treat Holcus lanatus in Royal Arches Meadow.

Epipactis treated since 2011; continue treatment.

Close to camp site G, treat Sorghum halepense and other invasives.

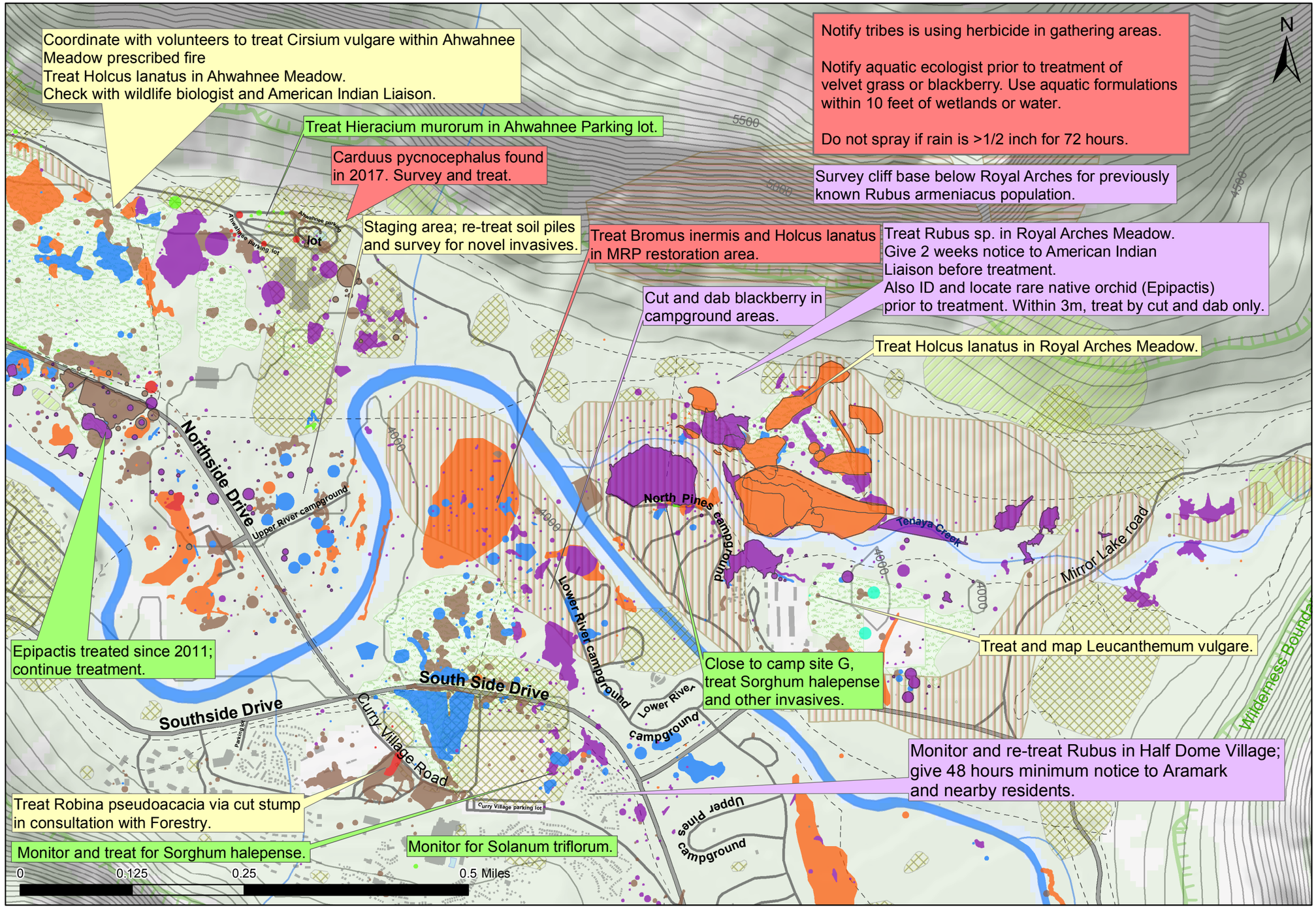
Treat and map Leucanthemum vulgare.

Monitor and re-treat Rubus in Half Dome Village; give 48 hours minimum notice to Aramark and nearby residents.

Treat Robina pseudoacacia via cut stump in consultation with Forestry.

Monitor and treat for Sorghum halepense.

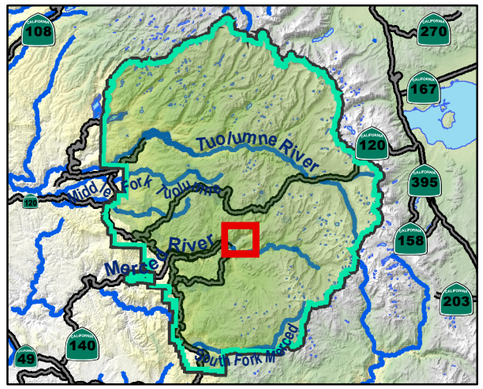
Monitor for Solanum triflorum.



2019 Invasive Plant Work Plan

2.6 Tenaya Creek

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



Map Features

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

Treatment Annotations

- Early Detection
- Blackberry
- High priority
- Low priority

Invasive Treatments

- Treated in 2018

Invasive Plant Species

- Early Detection Species
- Rubus sp.
- Cirsium vulgare
- Holcus lanatus
- Lower Priority Species

Notify aquatic ecologist prior to treatment of velvet grass or blackberry. Use aquatic formulations within 10 feet of wetlands or water.

Do not spray if rain is >1/2 inch for 72 hours.

Shovel-shear Cirsium vulgare with volunteers.

Use compasses to aid grid lines.

Map and treat Lactuca biennis throughout area.

Treat all Rubus armeniacus in Tenaya Canyon.

Tenaya Creek

Snow Creek

Wilderness Boundary

4500
5000
5500
6000
6500
7000
7500
8000
8500

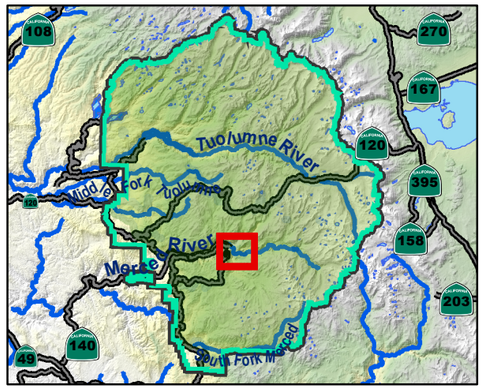
N

0 0.125 0.25 0.5 Miles

2019 Invasive Plant Work Plan

2.7 Mist Trail

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



Map Features

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

Treatment Annotations

- Early Detection
- Blackberry
- High priority
- Low priority

Invasive Treatments

- Treated in 2018

Invasive Plant Species

- Early Detection Species
- Rubus sp.
- Cirsium vulgare
- Holcus lanatus
- Lower Priority Species

Notify aquatic ecologist prior to treatment of velvet grass or blackberry. Use aquatic formulations within 10 feet of wetlands or water.

Do not spray if rain is >1/2 inch for 72 hours.

Monitor and treat Centaurea stoebe.

Treat Holcus lanatus in Vernal Fall spray zone; Handpull in saturated areas and around special status plants.

Manually remove Hypericum perforatum if time allows.

Upper Pines campground

Curry Village service road

Happy Isles Loop

Wilderness Boundary

Happy Isles service road

Illilouette Creek

Merced River

7000
6500
6000
5500
5000
4500

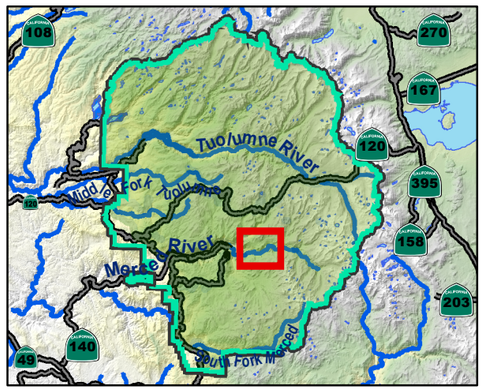
N

0 0.175 0.35 0.7 Miles

2019 Invasive Plant Work Plan

2.8 Little Yosemite Valley

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



Map Features

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

Treatment Annotations

- Early Detection
- Blackberry
- High priority
- Low priority

Invasive Treatments

- Treated in 2018

Invasive Plant Species

- Early Detection Species
- Cirsium vulgare
- Taraxacum officinale
- Holcus lanatus
- Lower Priority Species

Notify aquatic ecologist prior to treatment of velvet grass or blackberry. Use aquatic formulations within 10 feet of wetlands or water.

Do not spray if rain is >1/2 inch for 72 hours.

N

Treat Holcus lanatus. Survey for new populations.

Treat Cirsium vulgare

Sunrise Creek

Treat Cirsium vulgare & Taraxicum offfficianale in Lost Valley.

Treat Cirsium vulgare with Milestone VM and bag inflorescences. Hand-pull Verbascum thapsus.

Meadow Fire

Treat Cirsium vulgare

Treat Cirsium vulgare

Survey for Holcus lanat

Monitor for Holcus lanatus.

Merced River

Survey south side of river.

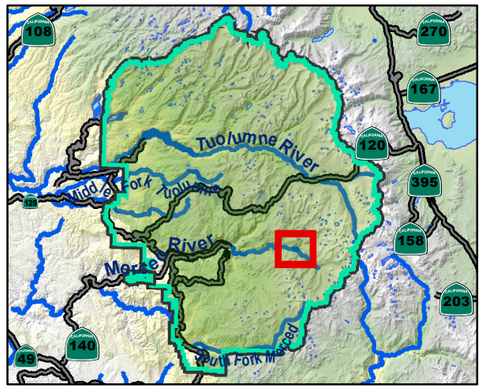
8000
7500
8000
7500
8000
8000
8000
8000

0 0.275 0.55 1.1 Miles

2019 Invasive Plant Work Plan

2.9 Merced Lake

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



Map Features

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

Treatment Annotations

- Early Detection
- Blackberry
- High priority
- Low priority

Invasive Treatments

- Treated in 2018

Invasive Plant Species

- Early Detection Species
- Cirsium vulgare
- Taraxacum officianale
- Holcus lanatus
- Lower Priority Species

Notify aquatic ecologist prior to treatment of velvet grass or blackberry. Use aquatic formulations within 10 feet of wetlands or water.

Do not spray if rain is >1/2 inch for 72 hours.

Treat Descurainia sophia.

Treat and survey meadow for Holcus lanatus

Treat invasives near ranger cabin.

Merced Lake

Fletcher Creek

Lewis Creek

8000

7500

8500

9000

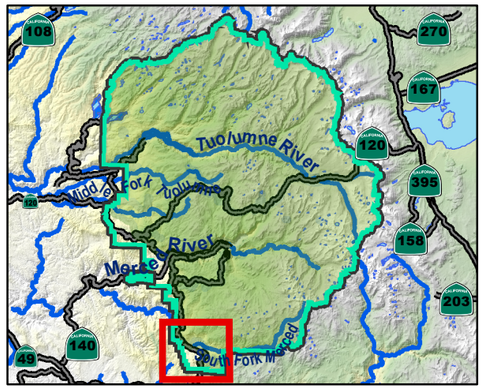
N

0 0.2 0.4 0.8 Miles

2019 Invasive Plant Work Plan

3.0 Wawona Region

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



Map Features

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

Treatment Annotations

- Early Detection
- High priority
- Blackberry
- Low priority

Invasive Treatments

- Treated in 2018

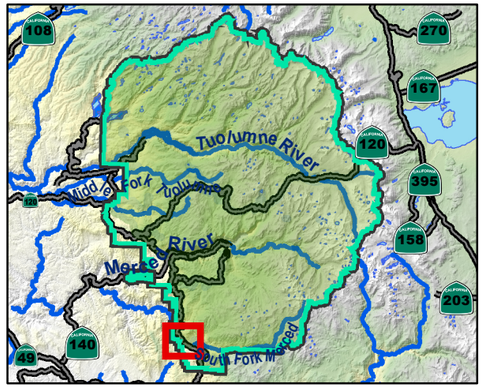
Invasive Plant Species

- Early Detection Species
- Rubus sp.
- Broom Species
- Cirsium vulgare
- Taraxacum officinale
- Leucanthemum vulgare
- Perennial Woody Species
- Holcus lanatus
- Centaurea solstitialis
- Lower Priority Species

2019 Invasive Plant Work Plan

3.1 Wawona Campground

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



Map Features

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

Treatment Annotations

- Early Detection
- Blackberry
- High priority
- Low priority

Invasive Treatments

- Treated in 2018

Invasive Plant Species

- Rubus sp.
- Cirsium vulgare
- Leucanthemum vulgare
- Holcus lanatus
- Lower Priority Species

Treat large Elymus hispidus patch and handpull Brassica nigra patches along Wawona Rd from Glacier Point Rd to South Entrance.

Survey and treat high priority invasive plants surrounding suppression lines and points in the Ferguson Fire perimeter.

Hand-pull Cirsium vulgare with volunteers.

Survey and treat high priority invasive plants along Wawona Rd and Glacier Point Rd within the Ferguson Fire perimeter.

Treat Rubus armeniacus along the South Fork, downstream from the campground. Re-treat campground; check special status plant map prior to treatment.

Treat high priority invasives near disturbances related to wastewater treatment plant.

Ferguson Fire

Wawona campground

South Fork Merced

Wawona campground

Rush Creek

Wilderness Boundary

Big Creek

5500
5000
4500
4000

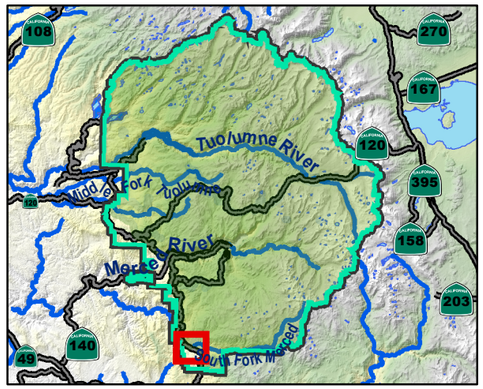
N

0 0.175 0.35 0.7 Miles

2019 Invasive Plant Work Plan

3.2 Central Wawona

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



Map Features

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

Treatment Annotations

- Early Detection
- Blackberry
- High priority
- Low priority

Invasive Treatments

- Treated in 2018

Invasive Plant Species

- Early Detection Species
- Rubus sp.
- Cirsium vulgare
- Taraxacum officianale
- Leucanthemum vulgare
- Perennial Woody Species
- Holcus lanatus
- Centaurea solstitialis
- Lower Priority Species

Monitor helispot; spray Holcus lanatus and Bromus tectorum with glyphosate or mow to prevent seed spread; identify important vehicle staging areas & survey. Retreat Holucs lanatus in Fall and apply pre-emergent Matrix to Bromus tectorum in Fall.

Survey and trea invasives in areas disturbed by South Fork Fire operations.

Monitor and treat Lactuca virosa and Ambrosia acanthicarpa

Treat high priority invasiveswith herbicide in areas disturbed by wastewater plant construction.

Treat Ranunculus repens throughout creek with glyphosate. Survey for new populations.

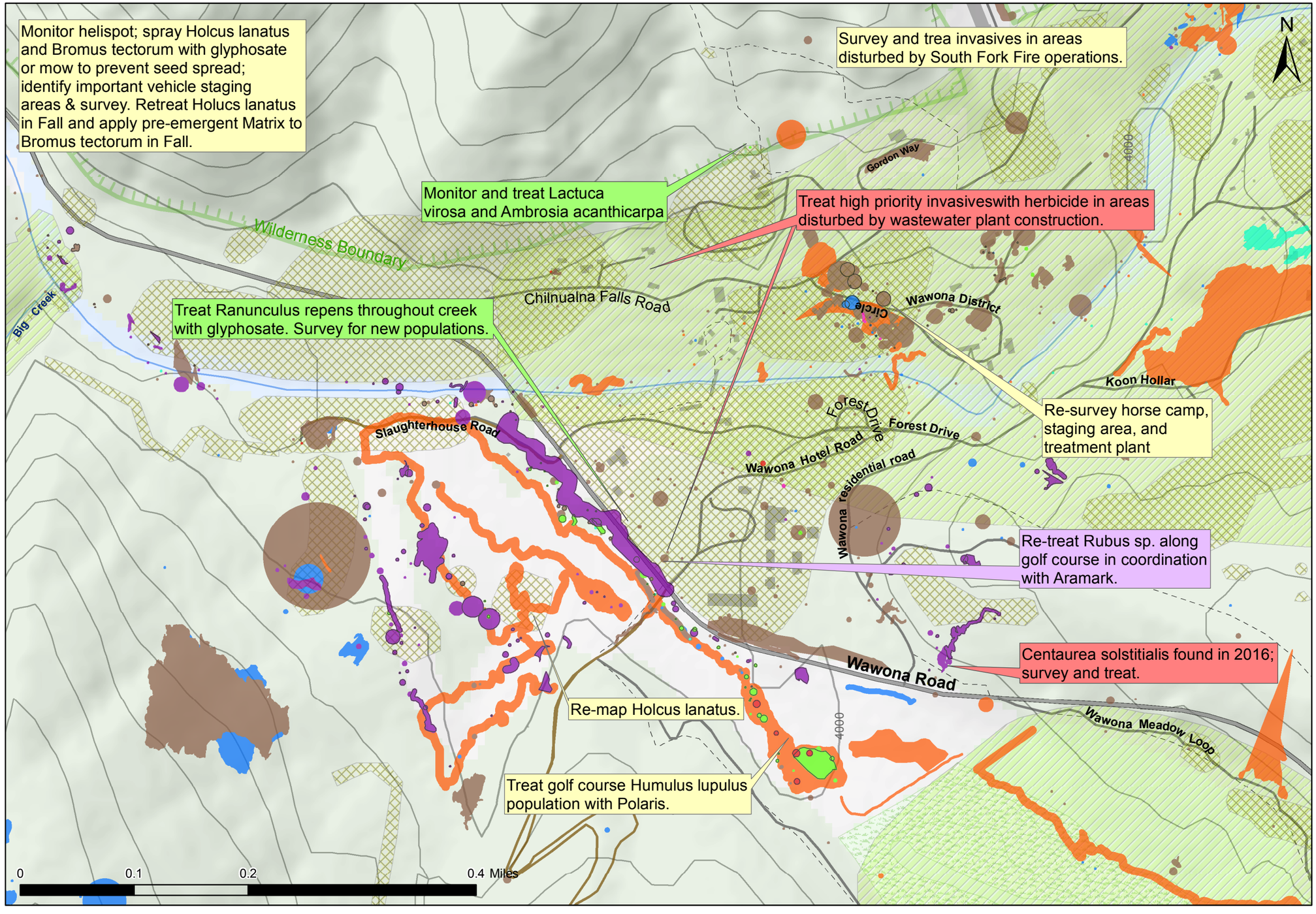
Re-survey horse camp, staging area, and treatment plant

Re-treat Rubus sp. along golf course in coordination with Aramark.

Centaurea solstitialis found in 2016; survey and treat.

Re-map Holcus lanatus.

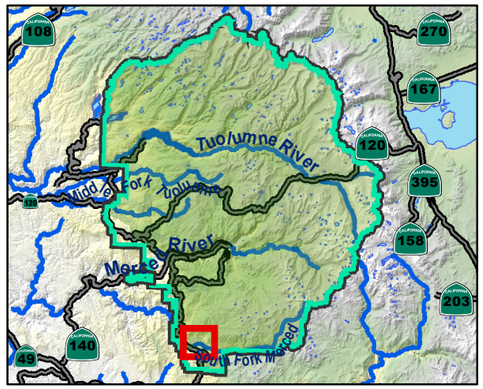
Treat golf course Humulus lupulus population with Polaris.



2019 Invasive Plant Work Plan

3.3 Wawona Residential

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



Map Features

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

Treatment Annotations

- Early Detection
- Blackberry
- High priority
- Low priority

Invasive Treatments

- Treated in 2018

Invasive Plant Species

- Rubus sp.
- Broom Species
- Cirsium vulgare
- Taraxacum officianale
- Leucanthemum vulgare
- Perennial Woody Species
- Holcus lanatus
- Lower Priority Species

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

Survey and treat invasives in areas disturbed by South Fork Fire operations.

Cytisus scorparius treated in 2016. Monitor and re-reat with landowner permission.

Lychnis coronaria is spreading and should be discouraged for use as an ornamental.

Treat Holcus lanatus.

Map Lathyrus latifolius. Treat with herbicide if agreement is made with landowner.

Cytisus scorparius treated in 2016. Monitor and re-reat with landowner permission.

Treat Bromus tectorum in fire footprint along trail.

Monitor Robinia pseudoacatia.

South Fork Fire

Wilderness Boundary
Spelt Road
Fir Street
Mariposa Avenue
Porcupine
Oak Lane
Yosemite Pines Lane
Yosemite Avenue
Chilnualna Avenue
West Bruce Lane
East Bruce Lane
North Hoover Way
South Hoover Way
English Lane
Loop Road
Robin Lane
Larkspur Lane
Raccoon Road
Woodpecker Way
Juniper Place
River Road
Cedar Lane
Deer Lane
Riverview Lane
Larke Lane
Campen Way
Van
Chilnualna Falls Road
Chilnualna Creek
River Street
Forest Drive
Wawona residential road
Wawona Way
Koon Hollar
Bills Hill Road
4500
5000

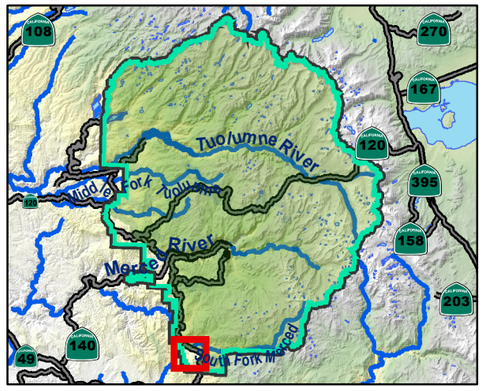
0 0.125 0.25 0.5 Miles

N

2019 Invasive Plant Work Plan

3.4 Wawona Meadow

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



Map Features

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

Treatment Annotations

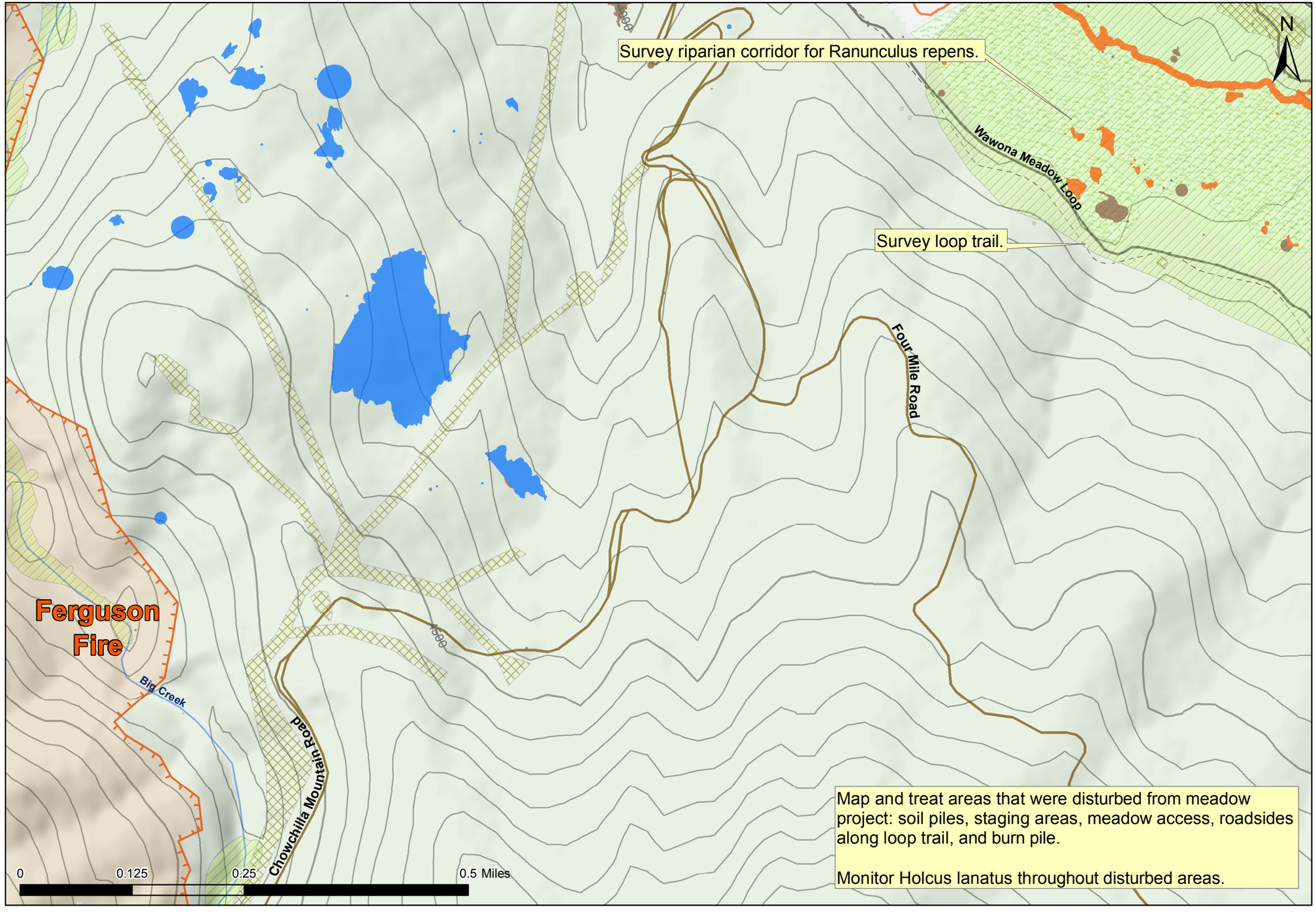
- Early Detection
- Blackberry
- High priority
- Low priority

Invasive Treatments

- Treated in 2018

Invasive Plant Species

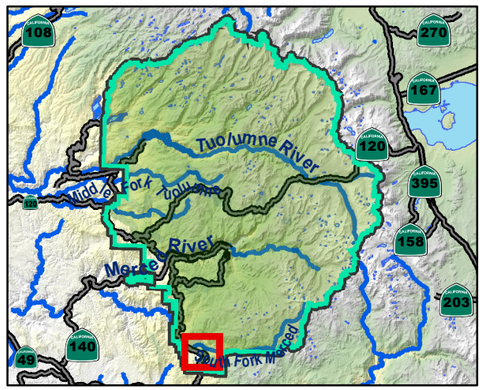
- Cirsium vulgare
- Holcus lanatus
- Lower Priority Species



2019 Invasive Plant Work Plan

3.5 Wawona East

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



Map Features

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

Treatment Annotations

- Early Detection
- Blackberry
- High priority
- Low priority

Invasive Treatments

- Treated in 2018

Invasive Plant Species

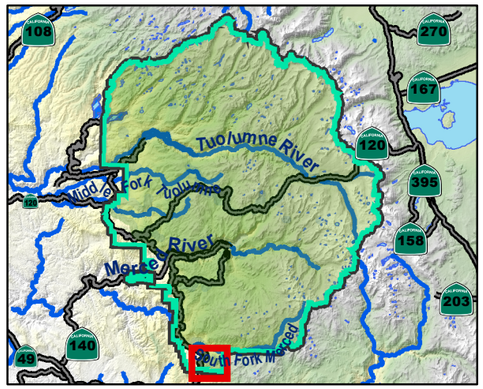
- Early Detection Species
- Rubus sp.
- Cirsium vulgare
- Taraxacum officianale
- Leucanthemum vulgare
- Holcus lanatus
- Lower Priority Species

Leonard Way
Koon
Hollar
Wawona residential road
Bills Hill Road
South Camp Road
Wilderness Boundary
Forest Drive
South Fork Merced
South Fork Fire
Treat Holcus lanatus.
Monitor Lec vir.
Re-treat Cirsium vulgare if time permits.
Wilderness Boundary
4500
Holcus lanatus cover shown here was last mapped in 2009 and reflects its 2009 extent. Remap if time allows.
Isolated Holcus lanatus population. High priority for treatment.
Treat restoration area for Rubus armeniacus and Holcus lanatus.
Wawona Road
Treat Rubus laciniatus.
5000
N
0
0.175
0.35
0.7 Miles

2019 Invasive Plant Work Plan

3.6 Mariposa Grove

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



Map Features

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

Treatment Annotations

- Early Detection
- Blackberry
- High priority
- Low priority

Invasive Treatments

- Treated in 2018

Invasive Plant Species

- Early Detection Species
- Rubus sp.
- Cirsium vulgare
- Taraxacum officianale
- Holcus lanatus
- Lower Priority Species

Coordinate ground disturbance activities (i.e. handpulling, shovel-shearing) with tribal liason.

Recruit volunteers to help treat and map invasives in the Mariposa Grove.

Treat dense populations of Cirsium vulgare with herbicide. Coordinate with volunteers.

Monitor Rubus armeniacus population.

Treat Dig pur

Survey the new trail routes that were established in 2010; monitor old trail routes.

Treat all Rubus in the grove.

Monitor and re-treat Carduus pycnocephalus. High priority.

Treat Holcus lanatus

Treat fill soil.

Wawona Road

Mariposa Grove

Wilderness Boundary

Mariposa Grove Road

Perimeter Trail

Sierra NF road

Mariposa Grove shuttle bus

5000

5500

6000

6500

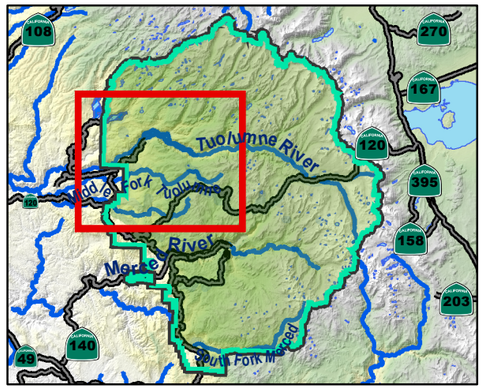
N

0 0.175 0.35 0.7 Miles

2019 Invasive Plant Work Plan

4.0 Northern Yosemite

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



Map Features

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

Treatment Annotations

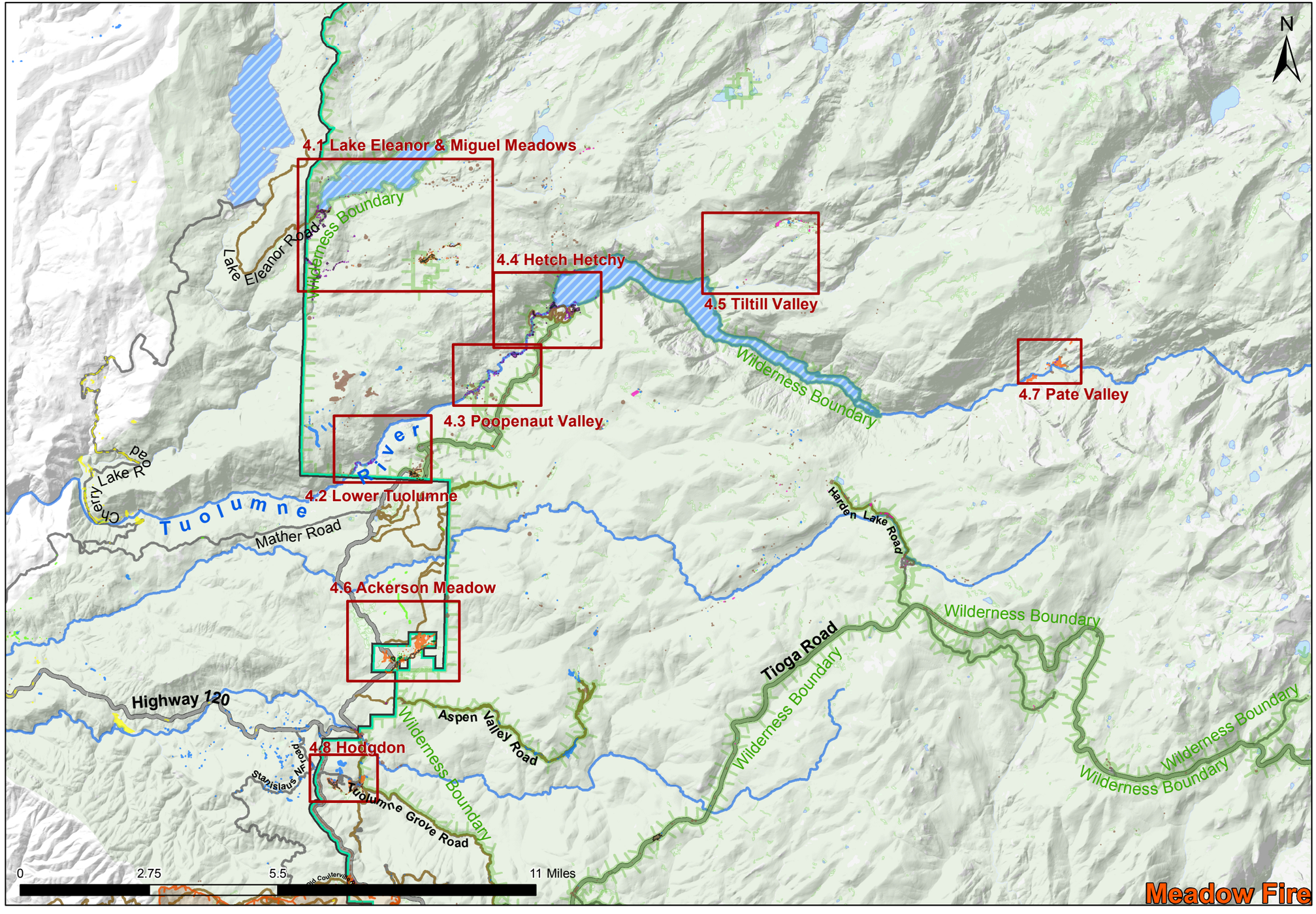
- Early Detection
- High priority
- Blackberry
- Low priority

Invasive Treatments

- Treated in 2018

Invasive Plant Species

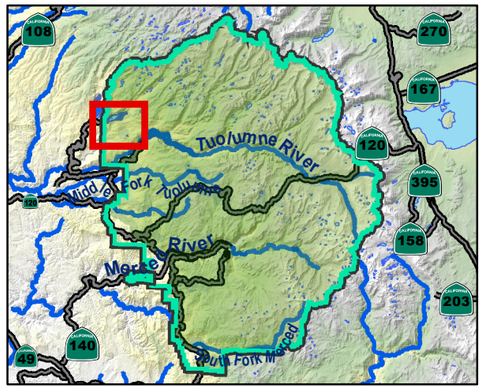
- Early Detection Species
- Rubus sp.
- Broom Species
- Cirsium vulgare
- Taraxacum officianale
- Leucanthemum vulgare
- Perennial Woody Species
- Holcus lanatus
- Centaurea solstitialis
- Lower Priority Species



2019 Invasive Plant Work Plan

4.1 Lake Eleanor & Miguel Meadows

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



Map Features

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

Treatment Annotations

- Early Detection
- Blackberry
- High priority
- Low priority

Invasive Treatments

- Treated in 2018

Invasive Plant Species

- Rubus sp.
- Cirsium vulgare
- Taraxacum officianale
- Holcus lanatus
- Lower Priority Species

Potential habitat for Western Pond Turtle
Consult aquatic ecologists prior to any chemical treatments.
Notify Wildlife branch of any amphibian observations.

Coordinate visit with Lake Eleanor ranger's on duty days.

If attaching points by canoe, bring 3 gallons/enough herbicide to mix more in smaller containers.

Survey and treat Centaurea solstitialis.

Treat lakeshore Rubus armeniacus populations. Communicate plans to watershed forester (Hetch Hetchy).

Re-treat the Eleanor Creek Corridor Rubus armeniacus with glyphosate. Communicate plans to City of San Francisco (Hetch Hetchy) beforehand.

Survey through Miguel Meadows.

Map and survey through Miguel Meadows corrals in detail.

Treat Rubus armeniacus in Lower Eleanor Creek and Miguel Creek.

Furthest east Rubus armeniacus in area. Monitor and re-treat.

Treat Holcus lanatus and other invasives with herbicide in Miguel Meadows

Survey and treat isolated Holcus lanatus and Rubus along creek corridor.

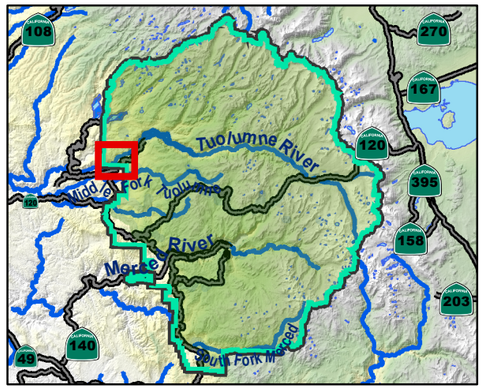
There are several isolated Rubus infestations along old road. Survey, map, and treat as needed.

Kibbie Creek
Lake Eleanor
Frog Creek
Lake Eleanor Road
Wilderness Boundary
Eleanor Creek
5000
5500
4500
N
0 0.4 0.8 1.6 Miles

2019 Invasive Plant Work Plan

4.2 Lower Tuolumne

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



Map Features

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

Treatment Annotations

- Early Detection
- Blackberry
- High priority
- Low priority

Invasive Treatments

- Treated in 2018

Invasive Plant Species

- Early Detection Species
- Rubus sp.
- Cirsium vulgare
- Holcus lanatus
- Lower Priority Species

Map R. armeniacus in this area of the Tuolumne. Travel is difficult due to rugged terrain.

Mapped in 2015 late season backpacking trip. Access from Camp Mather.

Carduus pynocephalus found in 2017. Survey and treat.

Treat Holcus lanatus and Cirsium vulgare with herbicide at entrance station.

Tuolumne River

Wilderness Boundary

Hetch Hetchy Road

5000

3500

4000

4500

3000

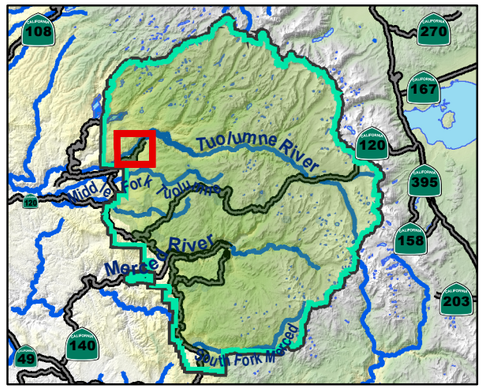
N

0 0.175 0.35 0.7 Miles

2019 Invasive Plant Work Plan

4.3 Poopenaut Valley

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



Map Features

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

Treatment Annotations

- Early Detection
- Blackberry
- High priority
- Low priority

Invasive Treatments

- Treated in 2018

Invasive Plant Species

- Rubus sp.
- Cirsium vulgare
- Taraxacum officianale
- Lower Priority Species

Access difficult in this area; use machetes.
Survey and treat during low flows.
Strategy for treatments should be reconsidered.

Monitor and re-treat Hypericum perforatum as necessary along entire roadway using aminopyralid.

Monitor and re-treat all Rubus armeniacus in this section where safe. Visit in September-October when flow and temps are low. Notify watershed forestor (Hetch Hetchy) of treatment schedule.

Treat and map invasives including Holcus lanatus Cirsium vulgare, Verbascum thapsus, and Hypericum perforatum.

Monitor Centaurea solstitialis from 2012.

Tuolumne River

Hetch Hetchy Road

Wilderness Boundary

Wilderness Boundary

3500

4000

4500

5000

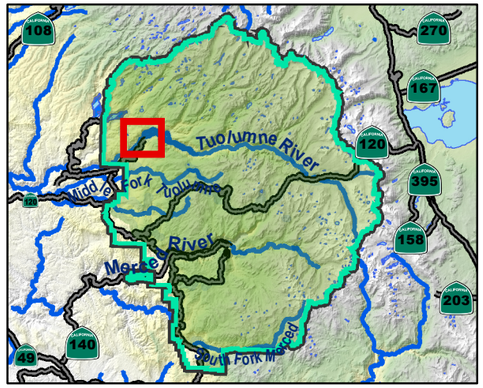
N

0 0.175 0.35 0.7 Miles

2019 Invasive Plant Work Plan

4.4 Hetch Hetchy

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



Map Features

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

Treatment Annotations

- Early Detection
- High priority
- Blackberry
- Low priority

Invasive Treatments

- Treated in 2018

Invasive Plant Species

- Early Detection Species
- Rubus sp.
- Broom Species
- Cirsium vulgare
- Taraxacum officianale
- Holcus lanatus
- Centaurea solstitialis
- Lower Priority Species

Most R. armeniacus treated in 2015. Treatment in more dangerously exposed areas may be possible by RMS VER rock climbers in collaboration with YOSE SAR (permission needed to drive truck onto dam).

Contact Hetch Hetchy law enforcement prior to treatment.

Coordinate with Hetchy LEs to survey reservoir perimeter by boat.

Search for Rubus armeniacus and check upper reaches of reservoir for Tamarix.

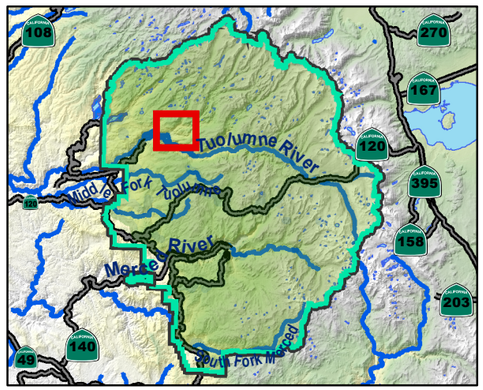
Monitor for Centaurea solstitialis, Carduus pycnocephalus, and Genista monspessulana where contaiminated fill was removed.

Coordinate with volunteers to treat Cirsium vulgare and Verbascum thapsus.

2019 Invasive Plant Work Plan

4.5 Tiltill Valley

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



Map Features

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

Treatment Annotations

- Early Detection
- High priority
- Blackberry
- Low priority

Invasive Treatments

- Treated in 2018

Invasive Plant Species

- Early Detection Species
- Rubus sp.
- Cirsium vulgare
- Taraxacum officianale
- Lower Priority Species

Handpull Cirsium vulgare.

Handpull Tragopogon dubius and Verbascum thapsus.

Handpull Taraxacum officianale and Verbascum thapsus.

Questionable Lactuca biennis points. Monitor.

Handpull Cirsium vulgare.

Survey Hetch Hetchy inlets for invasives, treat as needed.

Treat Rubus armeniacus.

Survey for Rubus armeniacus along creek; treat as needed.

Tiltill Creek

Rancheria Creek

Hetch Hetchy Reservoir

Wilderness Boundary

7000 6500 6000 5500 5000 4500 4000

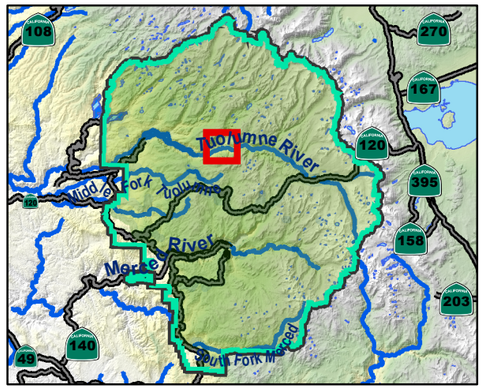
N

0 0.25 0.5 1 Miles

2019 Invasive Plant Work Plan

4.6 Pate Valley

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



Map Features

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

Treatment Annotations

- Early Detection
- High priority
- Blackberry
- Low priority

Invasive Treatments

- Treated in 2018

Invasive Plant Species

- Rubus sp.
- Cirsium vulgare
- Taraxacum officianale
- Holcus lanatus
- Lower Priority Species

Contact American Indian Liaison prior to any treatment activity in Pate Valley.

Holcus lanatus hand-pulled in 2009; continue to target isolated populations to prevent further spread.

Treat Rubus armeniacus with cut and dab glyphosate.

Map corral boundaries and conduct detailed surveys. Clip Holcus lanatus seeds along trail and corral.

Survey Piute Creek for Holcus lantaus and Rubus armeniacus.

Survey inlet to reservoir and treat as needed.

Holcus lanatus present along and in waterway.

Piute Creek

Tuolumne River

6000
5500
5000
4500

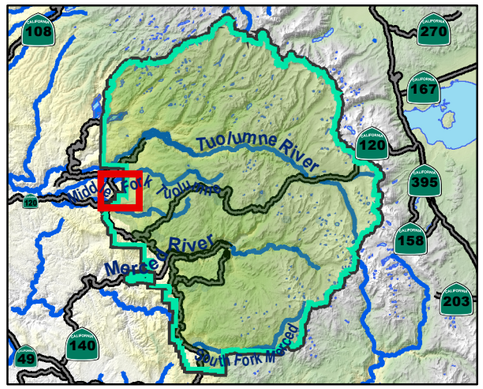
N

0 0.125 0.25 0.5 Miles

2019 Invasive Plant Work Plan

4.7 Ackerson Meadow

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



Map Features

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

Treatment Annotations

- Early Detection
- Blackberry
- High priority
- Low priority

Invasive Treatments

- Treated in 2018

Invasive Plant Species

- Early Detection Species
- Cirsium vulgare
- Holcus lanatus
- Lower Priority Species

Survey Ackerson Meadow Addition for invasives.
Treat known Elymus caput-medusae populations.

Survey and treat Elymus caput-medusae.
Use combination of chemical and mechanical treatments.

Increase treatments to protect rare monkey flowers.

Survey and treat Holcus lanatus.

Stanislaus NF road

Evergreen Road

Ackerson Creek

Wilderness Boundary

4500

5000

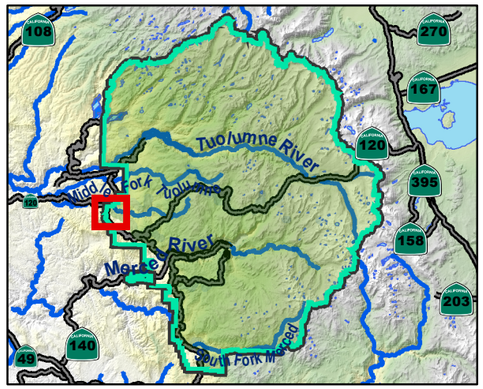
N

0 0.225 0.45 0.9 Miles

2019 Invasive Plant Work Plan

4.8 Hodgdon

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



Map Features

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

Treatment Annotations

- Early Detection
- Blackberry
- High priority
- Low priority

Invasive Treatments

- Treated in 2018

Invasive Plant Species

- Rubus sp.
- Cirsium vulgare
- Taraxacum officinale
- Leucanthemum vulgare
- Holcus lanatus
- Centaurea solstitialis
- Lower Priority Species

Treat all Holcus lanatus populations in Hodgdon.

Treat Festuca arundinacea throughout Hodgdon.

Shovel shear Cirsium vulgare with volunteers.

Survey and treat medium - high priority weeds before construction of entrance station.

Survey and treat medium - high priority invasives before utility work.

Treat Leucanthimum vulgare with herbicide.

Treat lower priority weeds including Melilotus in the Hodgdon area.

Monitor and treat NPS piles to reduce spread of novel invasives.

Treat all Hypericum perforatum with herbicide.

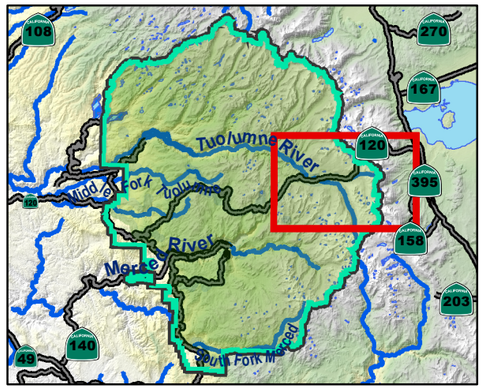
Monitor for Centaurea solstitialis found in 2012.

Tuolumne Grove Road
Hodgdon campground
Big Oak Flat Road
Hillside Loop Road
Meadow View Lane
Dogwood Drive
Carlton Road
Aspen Way
Hodgdon water tank road
Wilderness Boundary
4500
5000
N
0 0.125 0.25 0.5 Miles

2019 Invasive Plant Work Plan

5.0 Eastern Yosemite

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



Map Features

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

Treatment Annotations

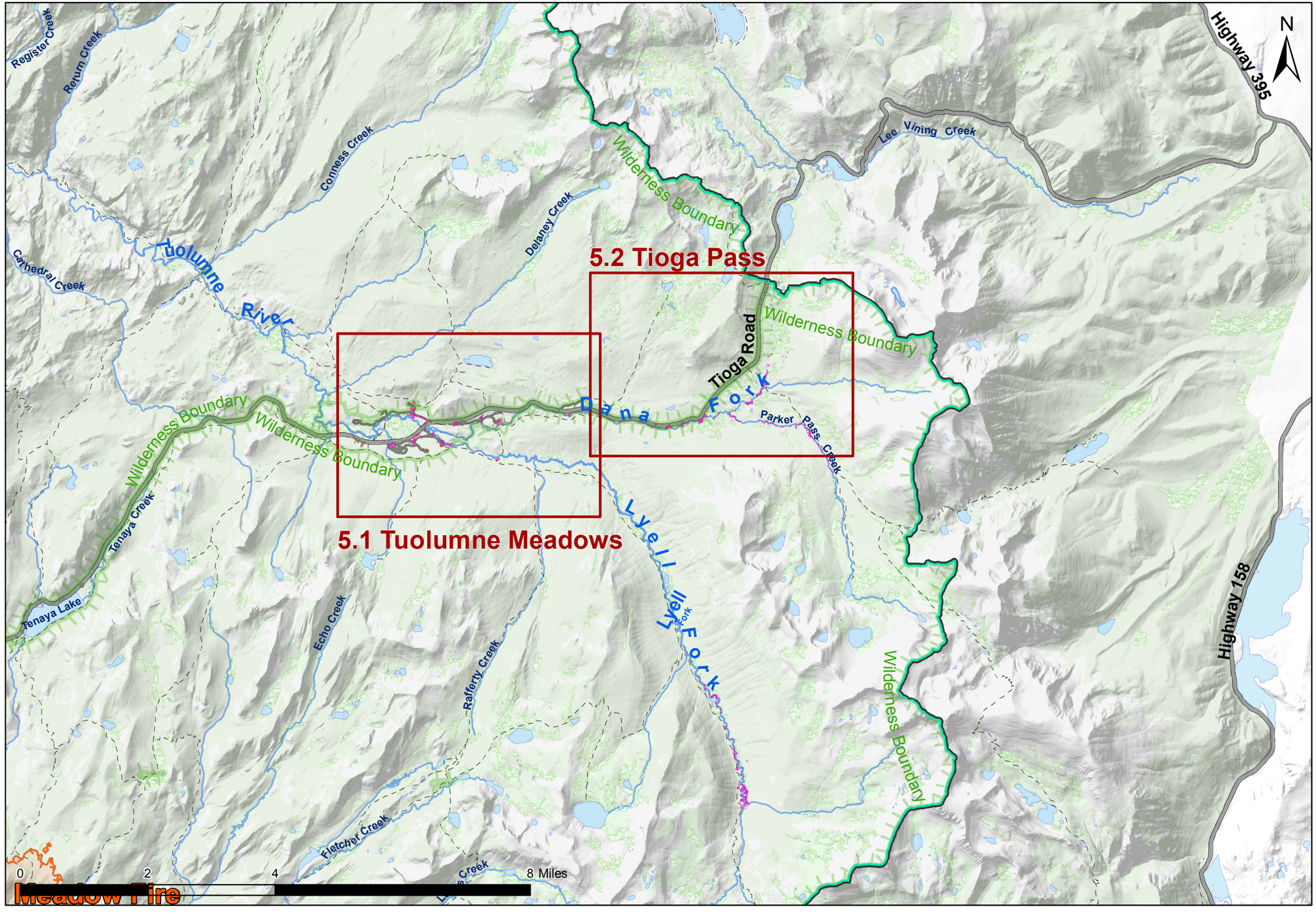
- Early Detection
- Blackberry
- High priority
- Low priority

Invasive Treatments

- Treated in 2018

Invasive Plant Species

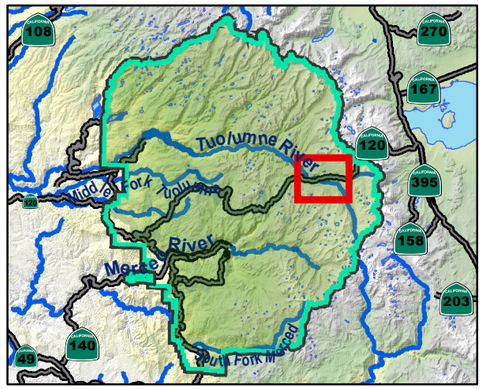
- Early Detection Species
- Cirsium vulgare
- Taraxacum officianale
- Holcus lanatus
- Lower Priority Species



2019 Invasive Plant Work Plan

5.1 Tuolumne Meadows

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



Map Features

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

Treatment Annotations

- Early Detection
- High priority
- Blackberry
- Low priority

Invasive Treatments

- Treated in 2018

Invasive Plant Species

- Early Detection Species
- Cirsium vulgare
- Taraxacum officianale
- Holcus lanatus
- Lower Priority Species

Habitat for Yellow Legged Frog and Yosemite Toad
Chemical treatments in meadows/wetlands must be made with aquatic ecologist.
All other treatments **must** be mechanical.
DO NOT treat any invasives in the vicinity of Soda Springs without consulting the American Indian Liaison.
Tuolumne Meadows is a high-priority area for early detection.

Yosemite Toad observed at stables, Consult with wildlife prior to treatment.

Treat Bromus tectorum.

Gaylor pit: Melilotus (historic) and other non-natives found here; survey and hand-pull. Survey campground area for new weeds.

Re-treat Lepidium perfoliatum.

Survey and treat Soda Springs for invasives.

Treat all non-native plants at concessionaire stables.

Treat soil piles for invasive plants prior to use in restoration project.

Treat patch of Phleum pratense.

Treat invasive plants with volunteers along Soda Springs Trail restoration site.

Re-treat Bromus inermis.

Monitor horse camp, treat all invasives.

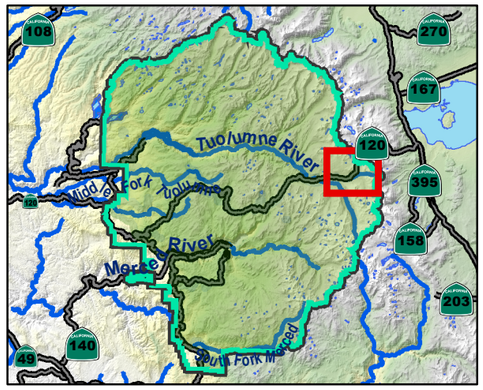
Treat Taraxacum officianale and low priority species along Great Sierra Wagon Road .

Delaney Creek
Soda Springs Road
Tioga Road
Tuolumne Lodge Road
Gaylor Pit Road
Wilderness Boundary
Sewage Pond service road
Tuolumne Meadows campground
Tuolumne River
Dana Fork
Lyell Fork
Rafferty Creek
9000
9500
N
0 0.4 0.8 1.6 Miles

2019 Invasive Plant Work Plan

5.2 Tioga Pass

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



Map Features

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

Treatment Annotations

- Early Detection
- Blackberry
- High priority
- Low priority

Invasive Treatments

- Treated in 2018

Invasive Plant Species

- Cirsium vulgare
- Taraxacum officianale
- Lower Priority Species

Habitat for Yellow Legged Frog and Yosemite Toad
Chemical treatments in meadows/wetlands must be made with aquatic formulation.

Treat Taraxacum officianale.

Treat Linaria vulgaris at Ellery Lake in collaboration with Inyo National Forest.

Survey road corridor.

Taraxacum population 1 mile in from Mono Pass Trailhead is top priority. Survey and treat in early season to prevent spread further into wilderness and higher elevations. Consult with Wildlife Branch concerning Yosemite Toad.

Survey the Dana Fork and Parker Pass Creek for Taraxacum officianalis.

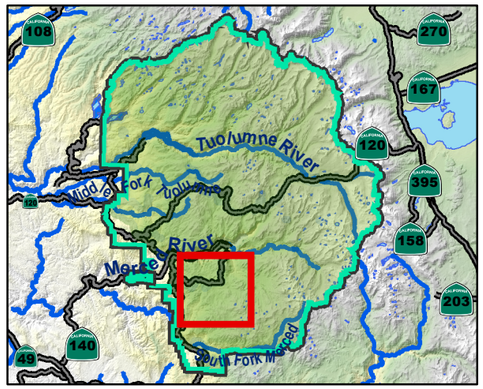
Taraxacum found at Spillway Lake Trail. Survey and treat.

Tioga Road
Wilderness Boundary
Wilderness Boundary
Dana Fork
Parker Pass Creek
N
11500
11000
10500
10000
9500
9000
0 0.4 0.8 1.6 Miles

2019 Invasive Plant Work Plan

6.0 Glacier Point

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



Map Features

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

Treatment Annotations

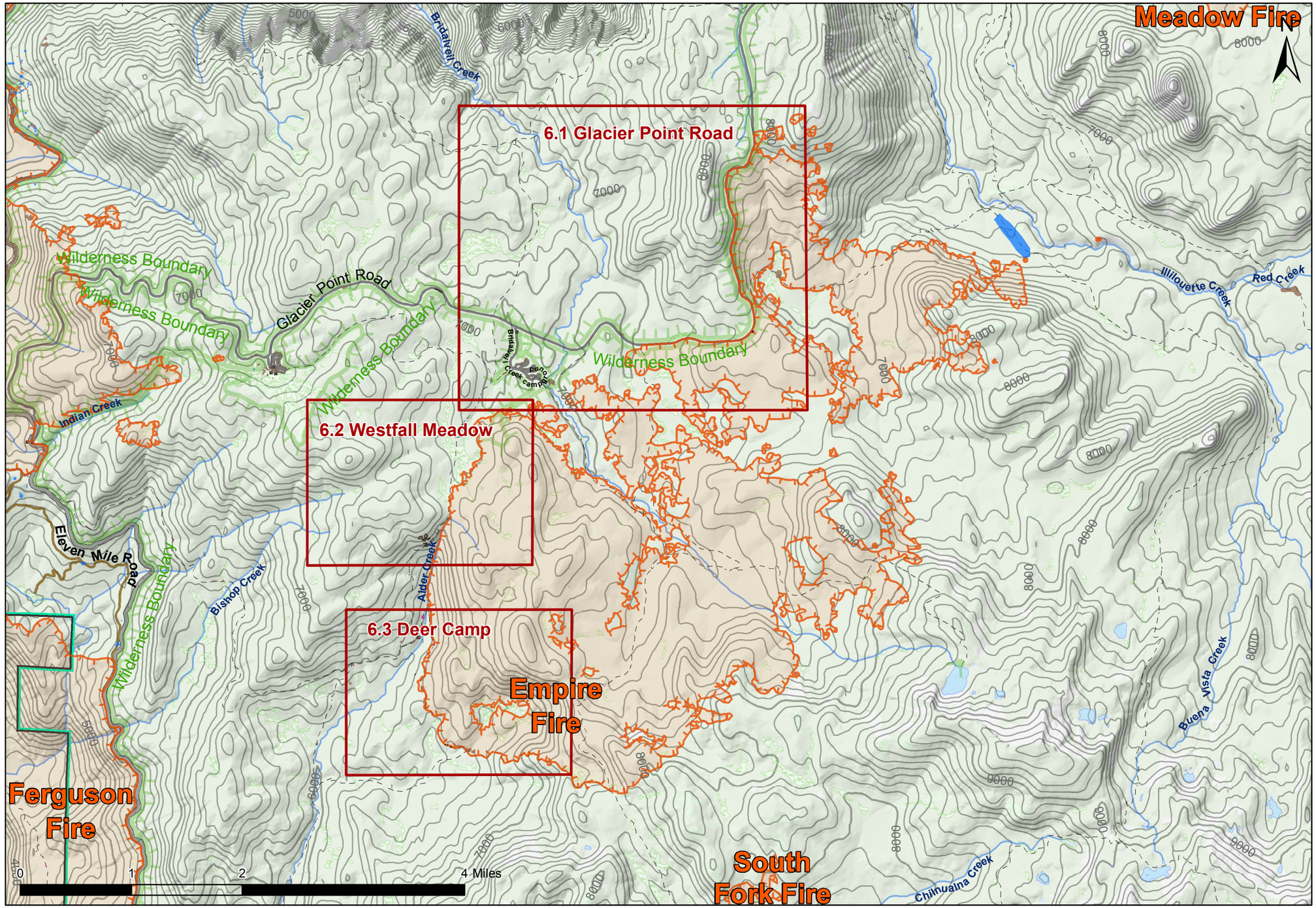
- Early Detection
- Blackberry
- High priority
- Low priority

Invasive Treatments

- Treated in 2018

Invasive Plant Species

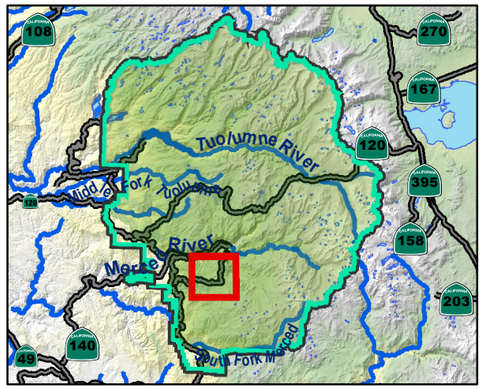
- Early Detection Species
- Cirsium vulgare
- Taraxacum officianale
- Holcus lanatus
- Centaurea solstitialis
- Lower Priority Species



2019 Invasive Plant Work Plan

6.1 Glacier Point Road

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



Map Features

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

Treatment Annotations

- Early Detection
- Blackberry
- High priority
- Low priority

Invasive Treatments

- Treated in 2018

Invasive Plant Species

- Early Detection Species
- Cirsium vulgare
- Taraxacum officianale
- Lower Priority Species

Chemical treatment in meadows/wetlands must be made with aquatic formulation.

Survey and treat invasive plants as discovered.

Survey along road and treat invasives in pullouts used by fire crews.

Survey and treat invasives in campground.

Treat Dessop

Treat Tar off

Survey for Lac vir

Empire Fire

Glacier Point Road

Wilderness Boundary

Bridalveil Creek

Bridalveil Creek campground

7000

7500

8000

8000

8000

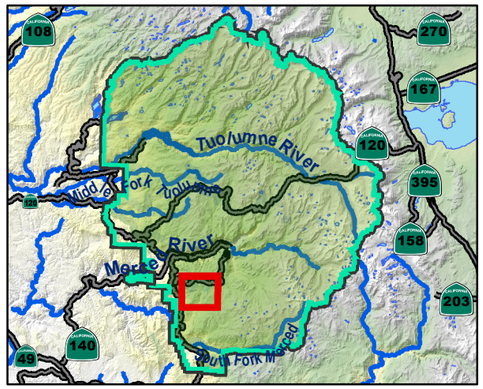
N

0 0.45 0.9 1.8 Miles

2019 Invasive Plant Work Plan

6.2 Westfall Meadow

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



Map Features

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

Treatment Annotations

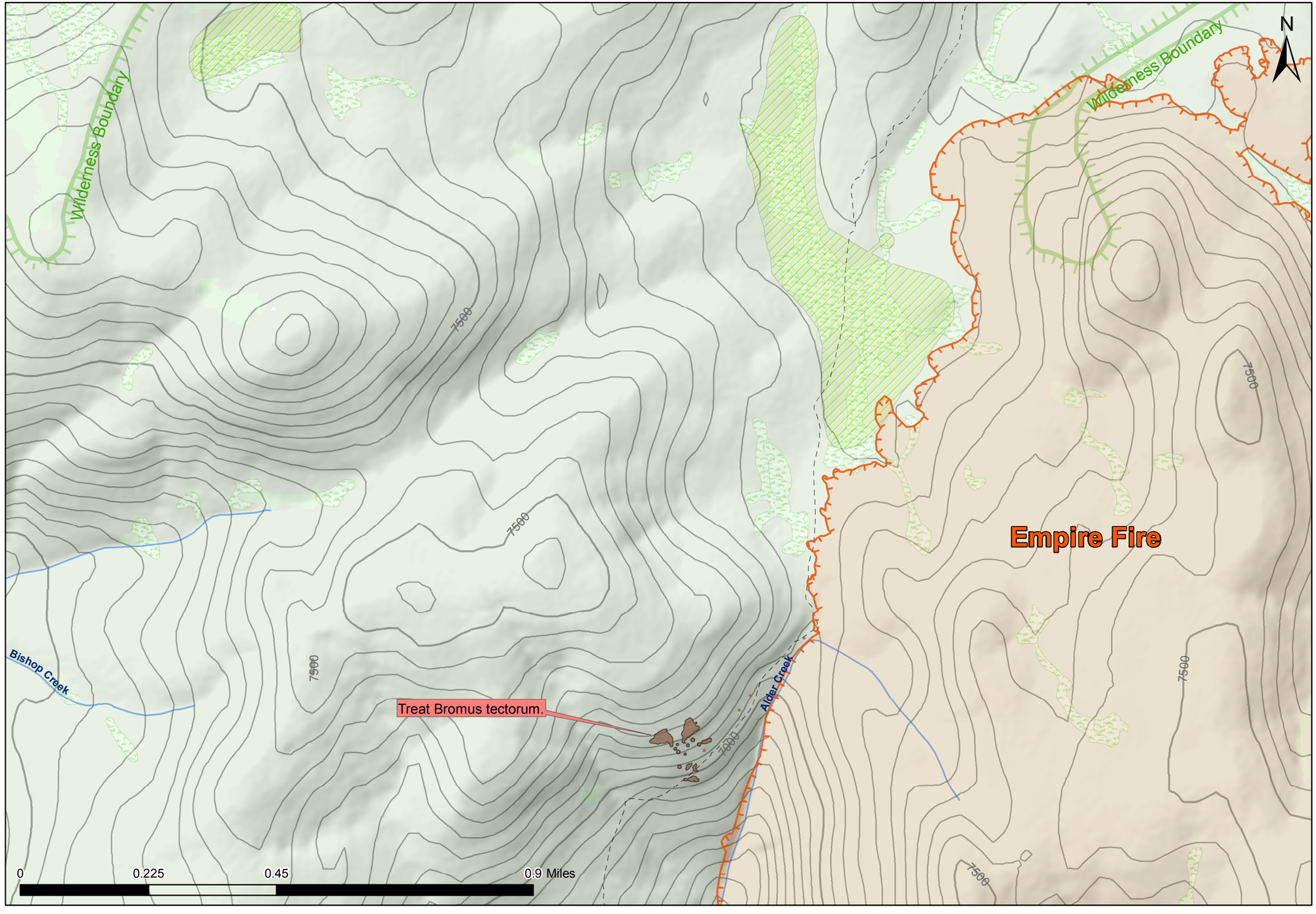
- Early Detection
- Blackberry
- High priority
- Low priority

Invasive Treatments

- Treated in 2018

Invasive Plant Species

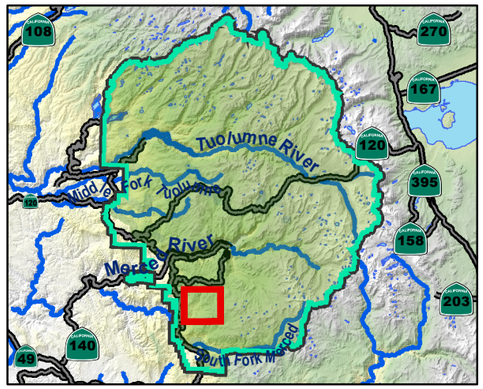
- Lower Priority Species



2019 Invasive Plant Work Plan

6.3 Deer Camp

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



Map Features

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

Treatment Annotations

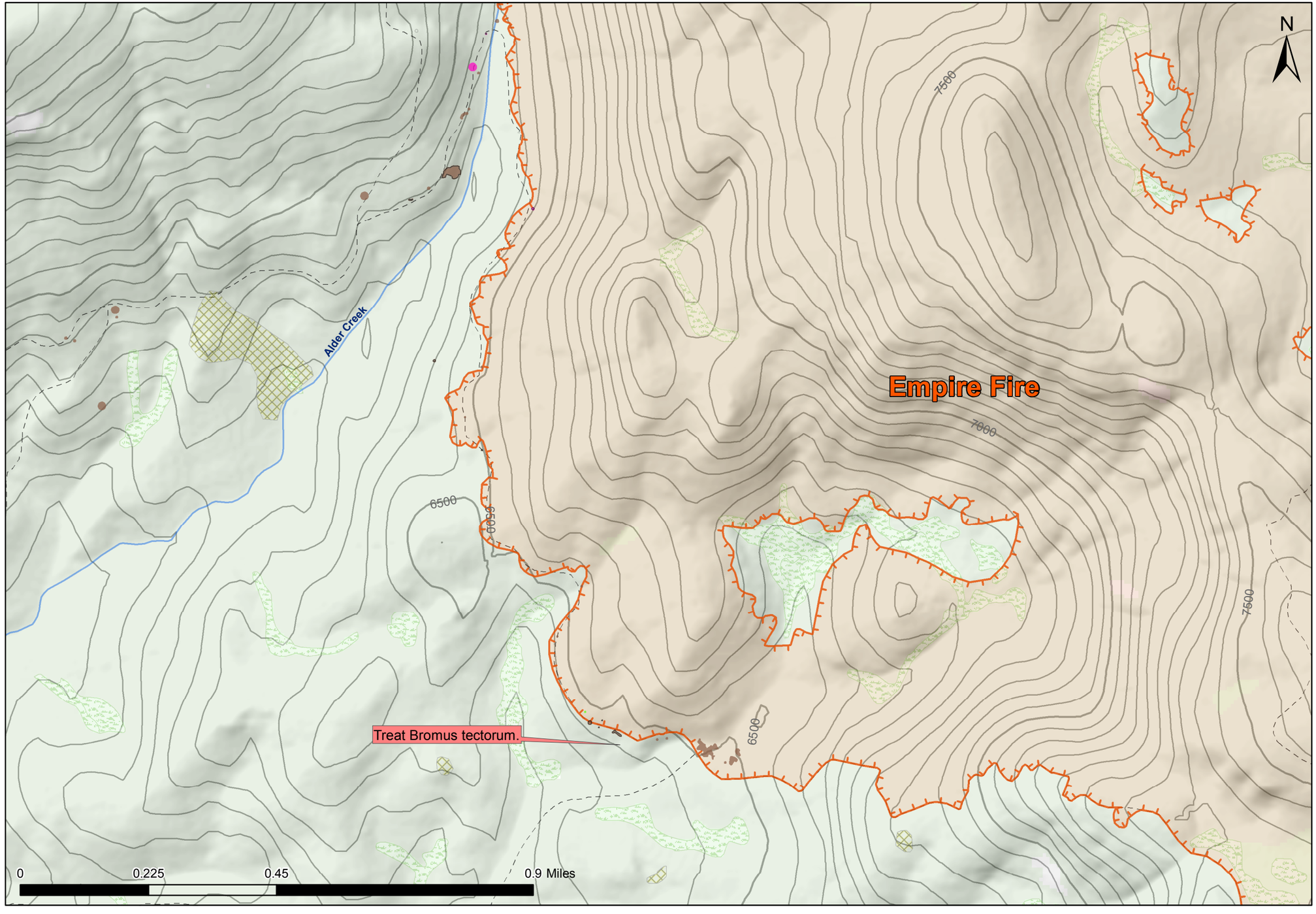
- Early Detection
- Blackberry
- High priority
- Low priority

Invasive Treatments

- Treated in 2018

Invasive Plant Species

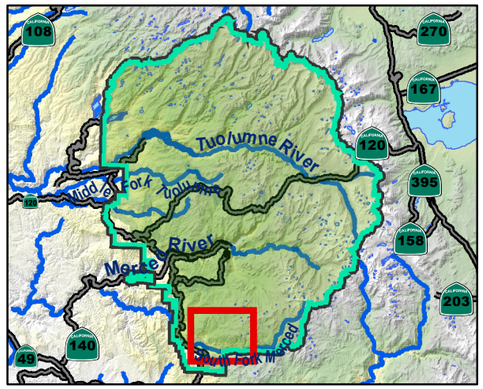
- Early Detection Species
- Taraxacum officianale
- Lower Priority Species



2019 Invasive Plant Work Plan

7.0 South Fork

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



Map Features

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

Treatment Annotations

- Early Detection
- Blackberry
- High priority
- Low priority

Invasive Treatments

- Treated in 2018

Invasive Plant Species

- Early Detection Species
- Rubus sp.
- Broom Species
- Cirsium vulgare
- Taraxacum officianale
- Leucanthemum vulgare
- Perennial Woody Species
- Holcus lanatus
- Lower Priority Species

7.1 South Fork

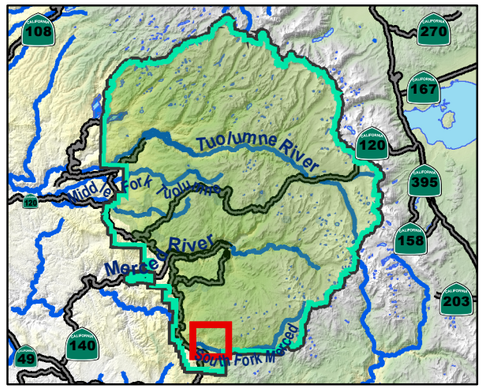
South Fork Fire

Chilnualna Creek
Wilderness Boundary
West Bruce Lane
Loop Road
Chilnualna Falls Road
Forest Drive
Koon Hollar
Bills Hill
SPA Camp Road
Wawona Meadow Loop
Wawona Road
South Fork Merced
Wilderness Boundary
Iron Creek
8000
9000
7000
6000
5000
N
0
0.5
1
2 Miles

2019 Invasive Plant Work Plan

7.1 South Fork

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



Map Features

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

Treatment Annotations

- Early Detection
- Blackberry
- High priority
- Low priority

Invasive Treatments

- Treated in 2018

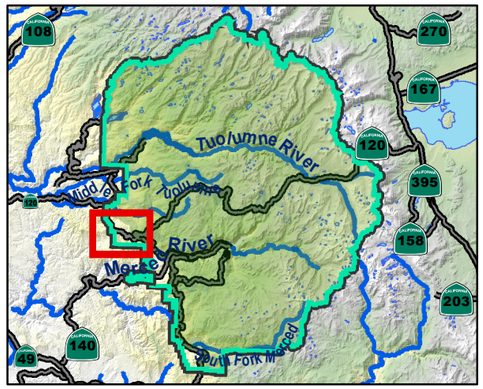
Invasive Plant Species

- Early Detection Species
- Cirsium vulgare
- Holcus lanatus
- Lower Priority Species

2019 Invasive Plant Work Plan

8.0 Crane Flat

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



Map Features

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

Treatment Annotations

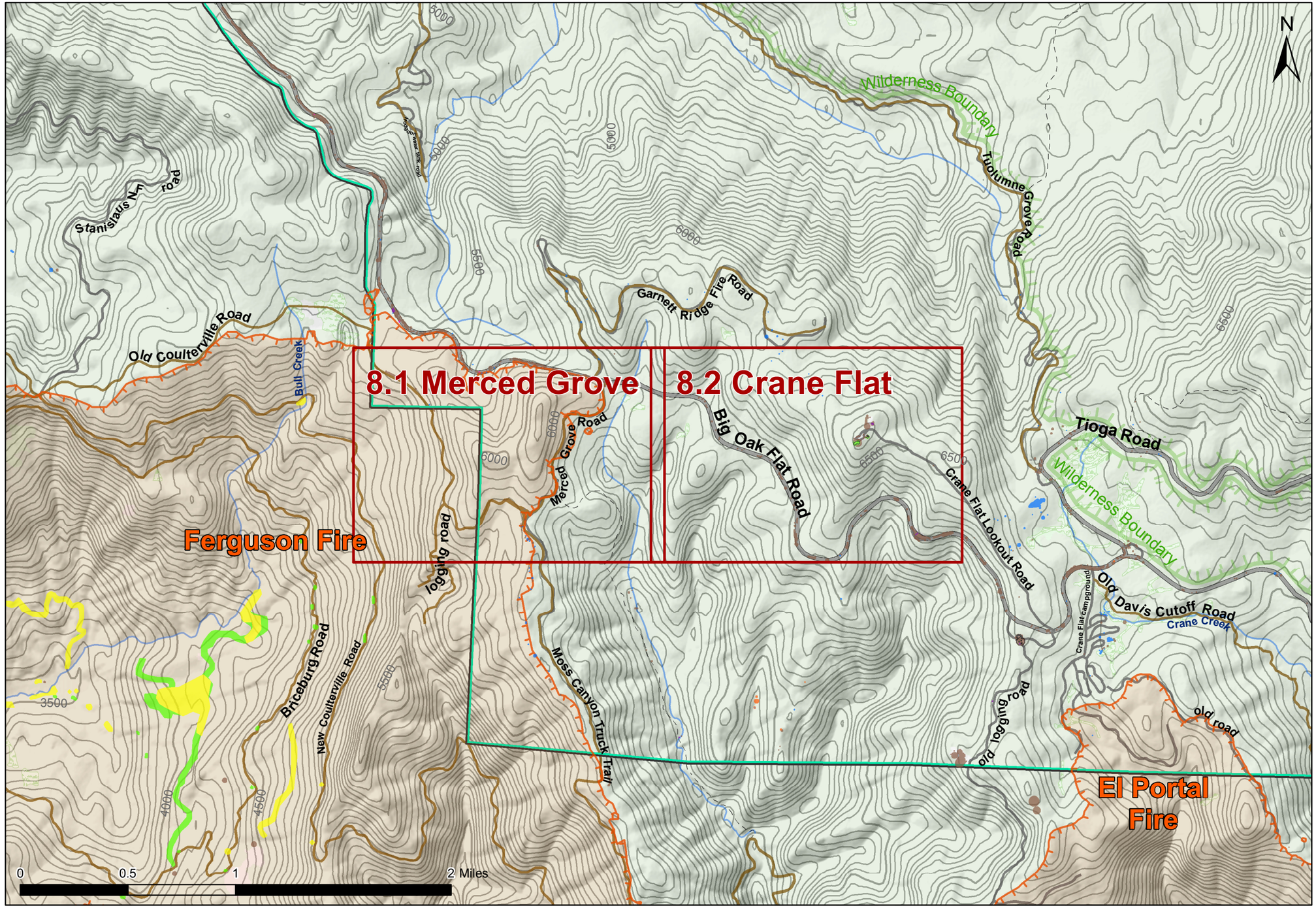
- Early Detection
- High priority
- Blackberry
- Low priority

Invasive Treatments

- Treated in 2018

Invasive Plant Species

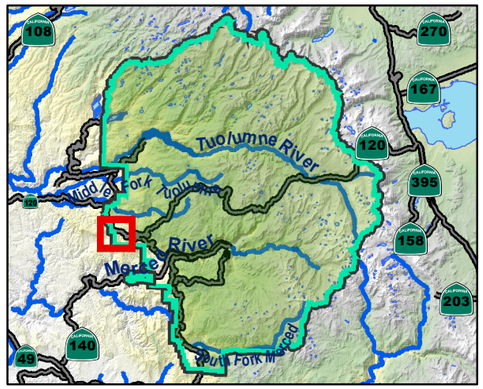
- Early Detection Species
- Rubus sp.
- Cirsium vulgare
- Taraxacum officianale
- Holcus lanatus
- Centaurea solstitialis
- Lower Priority Species



2019 Invasive Plant Work Plan

8.1 Merced Grove

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



Map Features

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

Treatment Annotations

- Early Detection
- High priority
- Blackberry
- Low priority

Invasive Treatments

- Treated in 2018

Invasive Plant Species

- Early Detection Species
- Cirsium vulgare
- Taraxacum officianale
- Holcus lanatus
- Lower Priority Species

Survey and treat invasive plants in Ferguson Fire suppression repair points and lines.

Survey and treat invasive plants along Big Oak Flat Road

Old Coulterville Road

New Coulterville Road

Big Oak Flat Road

Garnett Ridge Fire Road

Merced Grove Road

Moss Canyon Truck Trail

logging road

Bricebur Road

Ferguson Fire

6000

5500

5000

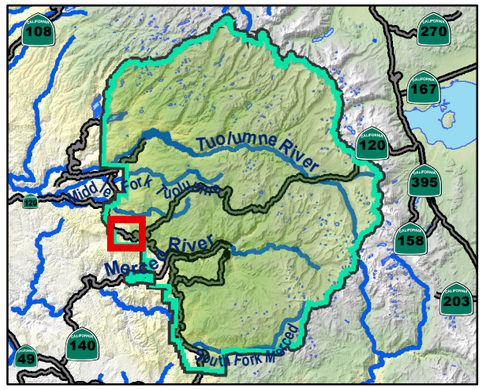
N

0.175 0.35 0.7 Miles

2019 Invasive Plant Work Plan

8.2 Crane Flat

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



Map Features

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

Treatment Annotations

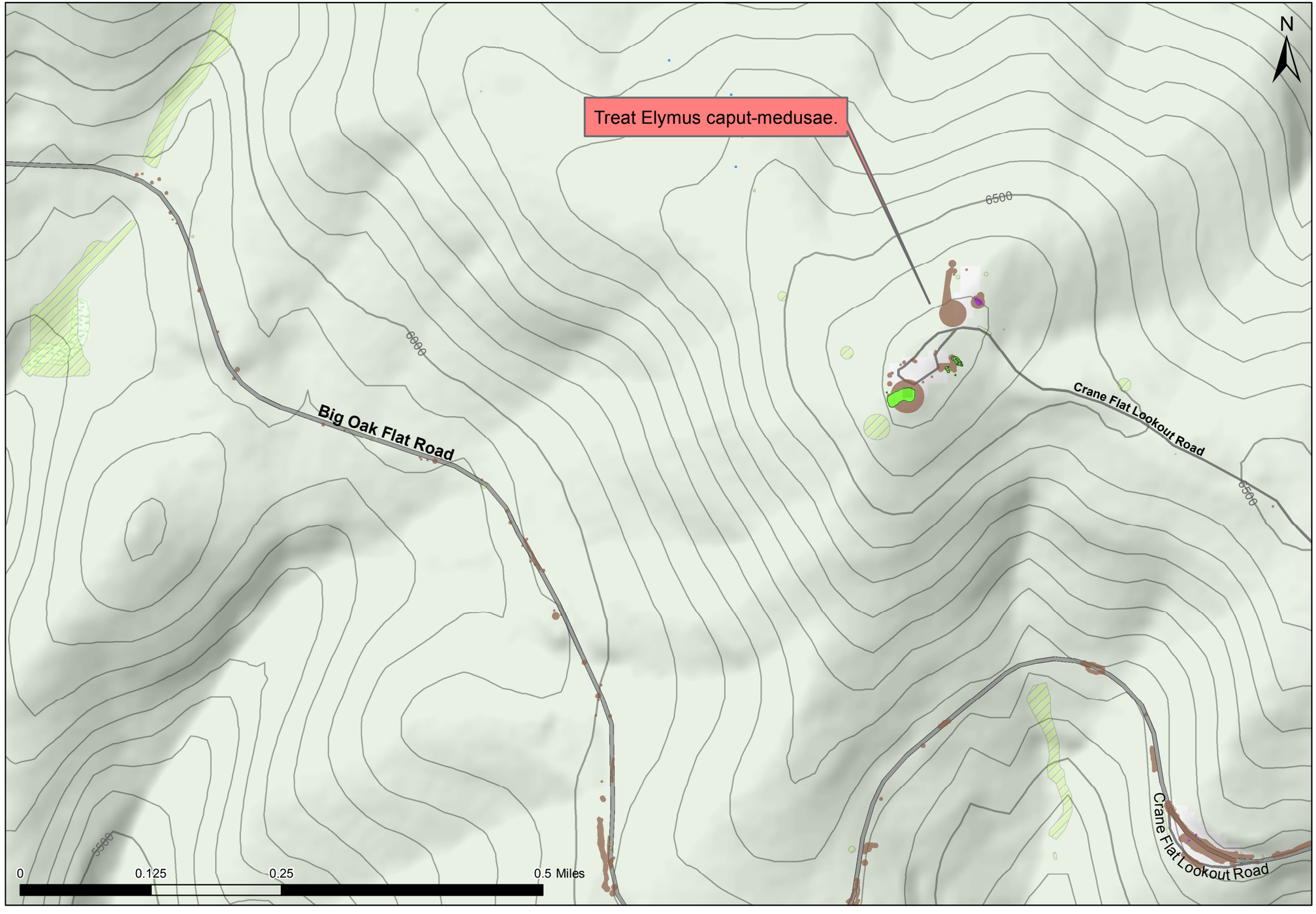
- Early Detection
- Blackberry
- High priority
- Low priority

Invasive Treatments

- Treated in 2018

Invasive Plant Species

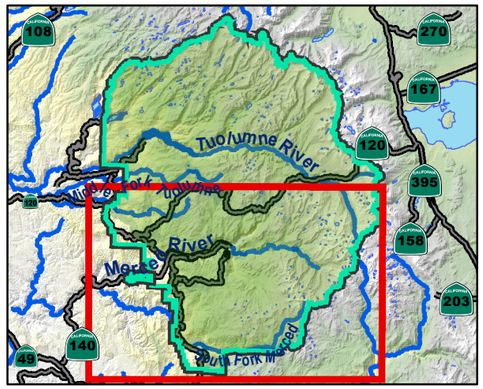
- Early Detection Species
- Rubus sp.
- Cirsium vulgare
- Holcus lanatus
- Lower Priority Species



2019 Invasive Plant Work Plan

99.1 South Park

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



Map Features

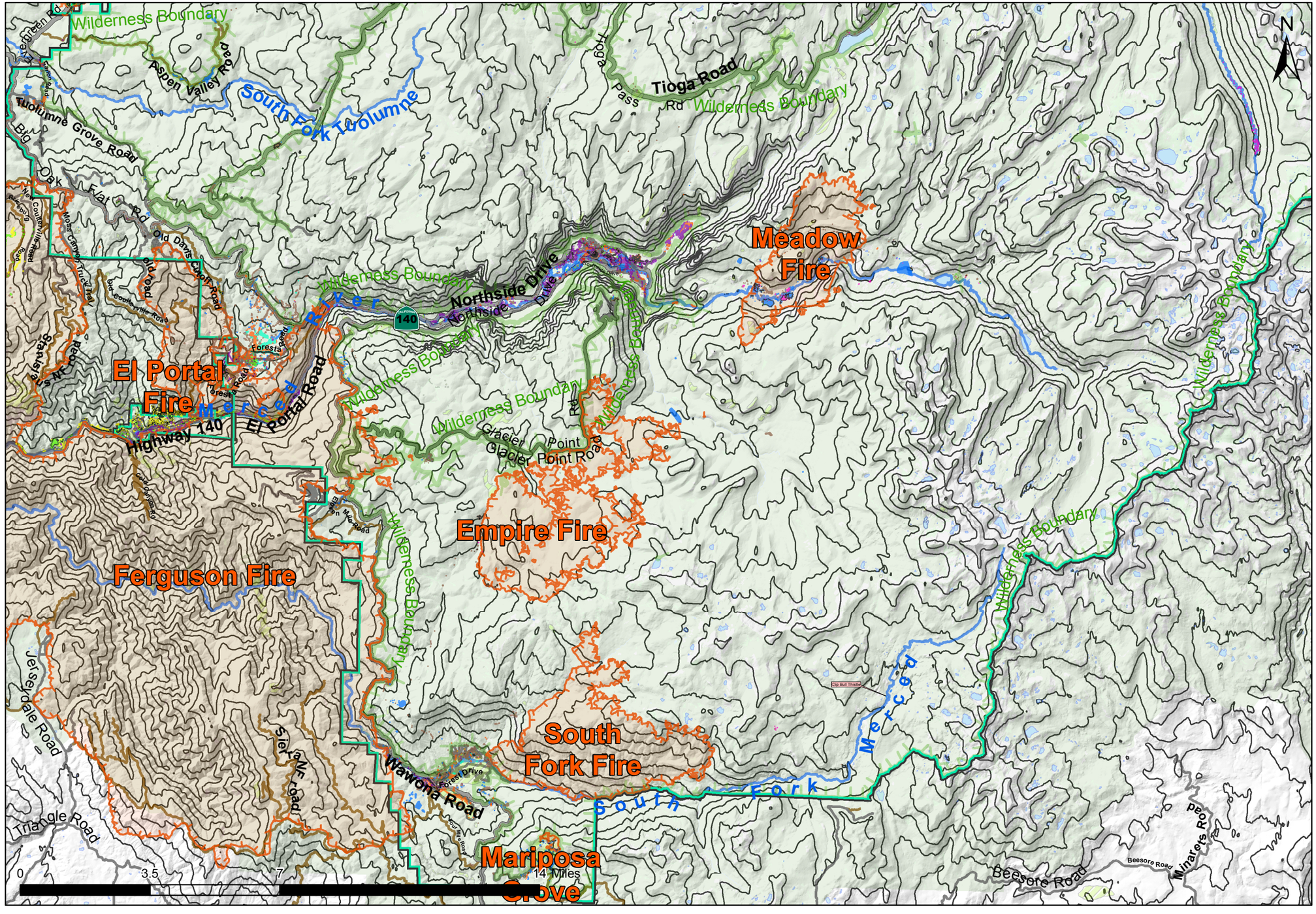
- Park Boundary
- Wilderness
- Fire Perimeters
- Roads
- Trails
- Buildings
- Wet meadows
- Rivers
- Lakes
- Reservoirs

Treatment Annotations

- Early Detection
- Blackberry
- High priority
- Low priority

Invasive Treatments

- Treated in 2018

Invasive Plant Species

- Early Detection Species
- Rubus sp.
- Broom Species
- Cirsium vulgare
- Taraxacum officianale
- Leucanthemum vulgare
- Perennial Woody Species
- Holcus lanatus
- Centaurea solstitialis
- Lower Priority Species