



Yolo County Weed Management Area: Reboot 2019



Tuesday, October 15, 2019

State WMA Meeting

Riverside, California

State Legislative Background

- California's Weed Management Area (WMA) program was created by AB 1168 (Frusetta) in 1999.



Ravenna grass (*Saccharum ravennae*) in Cache Creek



Short History of the YCWMA

- ▶ The Yolo County Weed Management Area (YCWMA) was formed in 1999 by a coordinated effort between federal, state, county, and city agencies, private industry, and landowners that were jointly concerned about the explosion of invasive plant species in Yolo County.
 - ▶ The YCWMA promotes and coordinates efforts toward the management and control of the County's noxious weeds through education and cooperation with landowners, agencies, organizations, and the general public. The group is led by the Yolo County Department of Agriculture and the Yolo County Resource Conservation District (Yolo RCD).
- 



Short History of the YCWMA

- ▶ Roadside sprays with Ag Department
 - ▶ Woolly distaff thistle, oblong spurge, Russian knapweed and purple star thistle control on private property in Western Yolo County
 - ▶ Yellow flag iris control work with Cache Creek Conservancy
- 



Current State of the YCWMA

- ▶ Applied for and received funding for two WMA grants from CDFA in March 2019
- ▶ We work closely with the Yolo County Ag Department
- ▶ Held our first meeting since 2009
- ▶ Meeting agenda (with 1.5 hours DPR continuing education credits):
 - ▶ YCWMA history and update
 - ▶ Yolo County Ag Department staff: Laws & Regs
 - ▶ *Katherine Holmes, Solano RCD*: Non-native Weeds and Habitat Restoration Projects
 - ▶ *John A. Roncoroni, Weed Science Farm Advisor, UCCE*: Weed Control in Natural Areas
 - ▶ YCWMA Next steps and next meeting

Getting to Work

- YCWMA Grant #1: Mapping and Planning
- YCWMA Grant #2: Early Detection Rapid Response



Distaff thistle *Carthamus lanatus*



Silverleaf nightshade *Solanum elaeagnifolium*

YCWMA Grant #1: Mapping and Planning

- ▶ The overall goal of this project is to reactivate the Yolo County Weed Management Area (YCWMA) for the purpose of continuing previous weed management efforts to control the infestations of regionally rare weeds and outlier weed populations in Yolo County.



Water primrose (*Ludwigia* spp)



Project Objectives

- ▶ Convene meetings with existing and interested new WMA members
- ▶ Add new signatories to the MOU
- ▶ Update 2010 mapping for locations of regionally rare and outlier populations of weeds identified as targeted for regional containment, including site visits
- ▶ Review CalWeedMapper Invasive Management Opportunities for Yolo County and identify additional species to target for regional containment
- ▶ Map all additional species and newly discovered locations of regionally rare and outlier populations of weeds targeted for regional containment
- ▶ Obtain permission from landowners to map weed populations on their property, or provide technical assistance to individual landowners to treat their own weeds
- ▶ Assess updated YCWMA mapping records and develop a strategic treatment plan for early detection and rapid response
- ▶ Document all mapped populations and assessment records in CalFlora.

YCWMA Grant #2: Early Detection Rapid Response

- The overall goal of this project is to control small infestations of weed populations at high value riparian and vernal pool grassland sites in Yolo County utilizing reactivation of the Yolo County Weed Management Area (YCWMA).



Perennial peppweed (*Lepidium latifolium*)

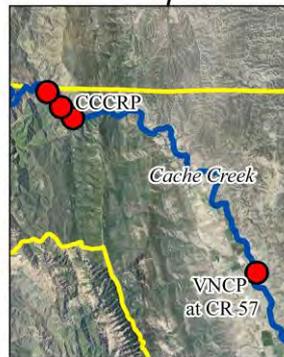
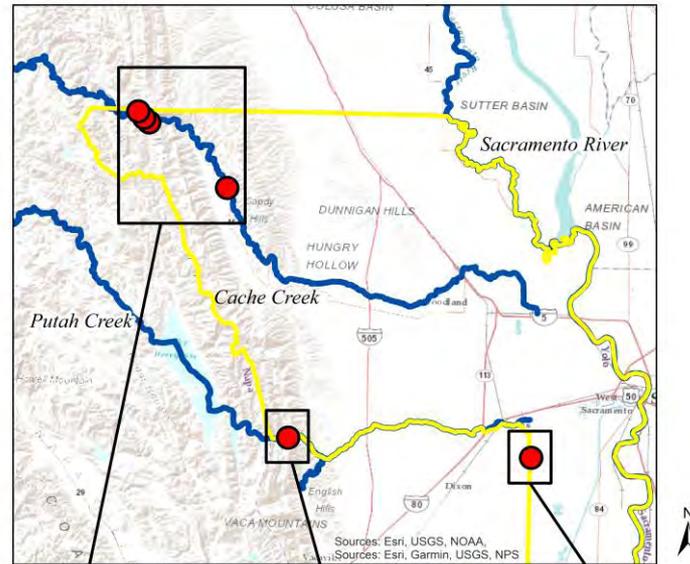


Project Objectives

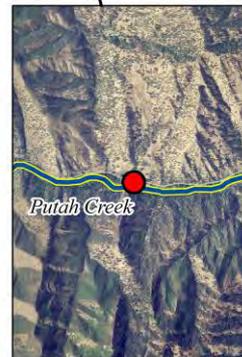


- Visit, map and make site assessments for four county-owned parks in the upper canyons of Putah and Cache Creeks (not flatlands) and Grasslands Regional Park (vernal pools in flatlands)
- Develop weed control plans for four county-owned parks
- Treat invasive weeds at these sites to stop their spread in these identified high value areas
- Engage partners at WMA meetings to identify other high value EDRR sites
- Improve public access, enhance aesthetics and improve wildlife habitat on public property.

High-Value sites: Yolo County Parks along creeks



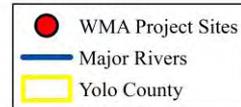
Cache Creek Canyon Regional Park (CCCRP) and Vernon Nichols County Park (VNCP) at County Road 57



Putah Creek Fishing Access



Grasslands Regional Park





Next Steps-

update target weed list

YCWMA Target weeds, 2010

Common Name	Scientific Name	CDFA Rating	Regionally Rare	Outlier Populations	Locations of 2010
Russian Knapweed	<i>Acroptilon repens</i>	B	X		Known
Woolly distaff thistle	<i>Carthamus lanatus</i>	B	X		Known
Purple star thistle	<i>Centaurea calcitrapa</i>	B	X		Known
Iberian knapweed	<i>Centaurea iberica</i>	A	X		Known
Skeletonweed	<i>Chondrilla juncea</i>	A	X		Unknown
Oblong spurge	<i>Euphorbia oblongata</i>	B	X		Known
Klamath weed	<i>Hypericum perforatum</i>	C	X		Unknown
Heart-podded hoary cress	<i>Lepidium draba</i>	B	X		Unknown
Silver leaf nightshade	<i>Solanum elaeagnifolium</i>	B	X		Varies
Barbed goatgrass	<i>Aegilops triuncialis</i>	B		X	Varies
Tree of heaven	<i>Ailanthus altissima</i>			X	Varies
Stinkwort	<i>Dittrichia graveolens</i>			X	Varies
Yellow flag iris	<i>Iris pseudacorus</i>	B		X	Known
Purple loosestrife	<i>Lythrum salicaria</i>	B		X	Unknown
Ravenna grass	<i>Saccharum ravennae</i>			X	Varies

Next Steps-

Proposed Target weed list, 2019

	Common Name	Scientific Name	CDFA Rating	Cal-IPC Rating	Regionally Rare	Treat Outlier Populations only	Location
1	Russian Knapweed	Acroptilon repens	B	Moderate	X		Known but not mapped
2	Barbed goatgrass	Aegilops triuncialis	B	High		X	Varies
3	Alligator weed	Alternanthera philoxeroides	A	High	X		Known and mapped
4	Woolly distaff thistle	Carthamus lanatus	B	High	X		Known and partially mapped
5	Purple star thistle	Centaurea calcitrapa	B	Moderate	X		Known but not mapped
6	Iberian knapweed	Centaurea iberica	A	Not listed	X		Known
7	Skeletonweed	Chondrilla juncea	A	Moderate	X		Unknown
8	Oblong spurge	Euphorbia oblongata	B	Limited	X		Known
9	Yellow flag iris	Iris pseudacorusis	B	Limited		X	Known
10	Heart-podded hoary cress	Lepidium draba	B	Moderate	X		Unknown
11	Purple loosestrife	Lythrum salicaria	B	High		X	Unknown
12	American Pokeberry	Phytolacca americana	Not rated?	Limited		X	Varies
13	Silver leaf nightshade	Solanum elaeagnifolium	B	Not listed	X		Varies
14	Tree of heaven	Ailanthus altissima	C	Moderate		X	Varies
15	Stinkwort	Dittrichia graveolens	Not rated?	Moderate		X	Varies



Cal-IPC Ratings FYI

- ▶ High – These species have severe ecological impacts on physical processes, plant and animal communities, and vegetation structure. Their reproductive biology and other attributes are conducive to moderate to high rates of dispersal and establishment. Most are widely distributed ecologically.
- ▶ Moderate – These species have substantial and apparent-but generally not severe-ecological impacts on physical processes, plant and animal communities, and vegetation structure. Their reproductive biology and other attributes are conducive to moderate to high rates of dispersal, though establishment is generally dependent upon ecological disturbance. Ecological amplitude and distribution may range from limited to widespread.
- ▶ Limited – These species are invasive but their ecological impacts are minor on a statewide level or there was not enough information to justify a higher score. Their reproductive biology and other attributes result in low to moderate rates of invasiveness. Ecological amplitude and distribution are generally limited, but these species may be locally persistent and problematic.
- ▶ Alert – An Alert is listed on species with High or Moderate impacts that have limited distribution in California, but may have the potential to spread much further.
- ▶ Watch – These species have been assessed as posing a high risk of becoming invasive in the future in California.

Next Steps

- Securing the next round of funding
- Keep YCWMA members informed about the funding issues and request letters of support as needed...?
- Update Strategic Plan
- Update YCWMA brochure



Stinkwort (*Dittrichia graveolens*)

Next Steps

- ▶ What do you want your WMA to do? Be a place to get information and help landowners control specific problem weeds
- ▶ WMA meetings serve as an educational forum and a place for practitioners to exchange information
- ▶ Two or three or four meetings per year? Three
- ▶ Next meeting: January 15, 2020



Thank you!